

12 GeV DIMAD Decks

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Abstract

This note contains the DIMAD ".outd" files for the baseline 12 GeV design. The ".outd" file contains the input file, the results generated from the "machine" and "hardware" statements which give $(\beta_x, \alpha_x, \beta_y, \alpha_y, \eta_x, \eta'_x, \eta_y, \eta'_y, \psi_x, \psi_y)$ at the end of each machine element and the sxzy coordinates, azimuth, elevation and roll angles at the end of each element, respectively. (Warning: this document is nearly 300 pages!)

Overview

The following offers a brief description of how the ".outd" files were generated:

1. The element names in the existing ArcA Optim deck for the baseline 12 GeV optics was modified so as to agree with the conventions used in the engineering song sheets.
2. The Optim decks were then translated into decks suitable for DIMAD using a program developed by Y. Roblin.
3. DIMAD was then executed on each Optim-converted deck.
4. To ensure that the conversion was performed properly, the beta functions and dispersions from DIMAD were compared (visually) with OPTIM. (We note that the vertical dispersion is a factor of -1 different between Optim and DIMAD).

The DIMAD ".outd" files are arranged in the following order:

123MeVInj.outd
Arc1.outd
Arc2.outd
Arc3.outd
Arc4.outd
Arc5.outd
Arc6.outd
Arc7.outd
Arc8.outd
Arc9.outd
ArcA.outd
ArcB.outd
Lin1.outd (i.e North Linac)
Lin2.outd (i.e. South Linac)
bsy2p.outd

bsy4p.outd
bsy6p.outd
bsy8p.outd
bsyA.outd
halla_5.outd
hallb_5_electron.outd
hallb_5_photon.outd
hallc_5.outd
hallD_CDR.outd

123MeVInj.outd

LDIMAT VERSION 2.9 PROD
ODATE AND TIME OF THIS RUN: 12-JUN-2007 12:48:04

XSIF Parser Version 2.1
Version Date: 01-JAN-2004
Run: 12-JUN-2007 12:48:04
XSIF Parser developed by NLC Department,
Stanford Linear Accelerator Center.

UTRANSPORT

TITLE
CONVERTED FROM 123MEVINJ.OPT

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5
D8008A: DRIFT, L=1.36285
MQD0L06: QUADRUPOLE, L=0.15, K1=-3.41938, TILT=0
D8008B: DRIFT, L=2.0546
MQD0L07: QUADRUPOLE, L=0.15, K1=8.54969, TILT=0
10
D8008C: DRIFT, L=0.9189
MQD0L08: QUADRUPOLE, L=0.15, K1=-9.16414, TILT=0
D8008D: DRIFT, L=0.9188
MQD0L09: QUADRUPOLE, L=0.15, K1=8.15804, TILT=0
D8008E: DRIFT, L=0.9189
15
MQD0L10: QUADRUPOLE, L=0.15, K1=-2.0665, TILT=0
D8008F: DRIFT, L=0.45456
MBL0R01: SBEND, L=0.3, ANGLE=-5.49998, K1=-0, &
E1=-0, E2=-5.5, HGAP=0, &
HGAPX=0, &
20
FINT=0.5, TILT=0
D8003: DRIFT, L=3.5
MQD0R01: QUADRUPOLE, L=0.15, K1=-2.85527, TILT=0
D8004: DRIFT, L=2.685
MQD0R02: QUADRUPOLE, L=0.15, K1=1.82917, TILT=0
25
D8005: DRIFT, L=3.685
MBL0R02: SBEND, L=0.3, ANGLE=5.49998, K1=-0, &
E1=5.5, E2=0, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
30
D8006: DRIFT, L=5.53511
MQD0R03: QUADRUPOLE, L=0.15, K1=-1.47139, TILT=0
MQD0R04: QUADRUPOLE, L=0.15, K1=1.95669, TILT=0
MQD0R05: QUADRUPOLE, L=0.15, K1=-1.39622, TILT=0
MQD0R06: QUADRUPOLE, L=0.15, K1=1.95669, TILT=0
35
MQD0R07: QUADRUPOLE, L=0.15, K1=-1.47139, TILT=0
MBL0R03: SBEND, L=0.3, ANGLE=5.49998, K1=-0, &
E1=0, E2=5.5, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
40
MQD0R08: QUADRUPOLE, L=0.15, K1=1.82917, TILT=0
MQD0R09: QUADRUPOLE, L=0.15, K1=-2.85527, TILT=0
MBL0R04: SBEND, L=0.3, ANGLE=-5.49998, K1=-0, &
E1=-5.5, E2=0, HGAP=0, &
HGAPX=0, &
45
FINT=0.5, TILT=0
D8009: DRIFT, L=1.57508

INJ: LINE=(D8008A, &
MQD0L06, D8008B, MQD0L07, D8008C, MQD0L08, &
50
D8008D, MQD0L09, D8008E, MQD0L10, D8008F, &
MBL0R01, D8003, MQD0R01, D8004, MQD0R02, &
D8005, MBL0R02, D8006, MQD0R03, D8006, &
MQD0R04, D8006, MQD0R05, D8006, MQD0R06, &
D8006, MQD0R07, D8006, MBL0R03, D8005, &
55
MQD0R08, D8004, MQD0R09, D8003, MBL0R04, &
D8009)
USE, INJ
DIMAT
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1

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*****
* DIMAD PROGRAM : LAST MODIFIED ON May 27, 2005 *
*****
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1

CONVERTED FROM 123MEVINJ.OPT
TOTAL LENGTH OF MACHINE IS: 64.454 METERS
IN THIS RUN THERE ARE :

29 DISTINCT ELEMENTS. ALLOCATED MXELMD : 30
37 ELEMENTS IN MACHINE.ALLOCATED MXPOS_D : 39
18 MATRICES DEFINED. ALLOCATED MAXMAT : 19
120 VALUES IN ELDAT. ALLOCATED MAXDAT : 120
0 LCAVs. ALLOCATED MX_LCAV : 1

1
OPERATION LIST ,

MACHINE
1 2 1 0 1 1 1
4.77 -1.65 0 0
26.64 0 0 0
0,

ELEMENT	#	BETAX	ALPHAX	BETAY	ALPHAY	ETAX	ETAPX	ETAY	ETAPY	NUX	NUY	ACC.LEN
\$\$INITIAL\$\$	0	4.7700	-1.6500	26.6400	0.0000	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.000
D8008A	1	10.7169	-2.7136	26.7097	-0.0512	0.0000	0.0000	0.0000	0.0000	0.03052	0.00813	1.363
MQD0L06	2	12.4372	-9.0482	24.7223	12.9588	0.0000	0.0000	0.0000	0.0000	0.03262	0.00905	1.513
D8008B	3	77.7449	-22.7379	0.3172	-1.0806	0.0000	0.0000	0.0000	0.0000	0.04314	0.37795	3.567
MQD0L07	4	69.8441	71.9879	0.9135	-3.1462	0.0000	0.0000	0.0000	0.0000	0.04346	0.42439	3.717
D8008C	5	0.2075	3.7947	16.7700	-14.1097	0.0000	0.0000	0.0000	0.0000	0.08225	0.46211	4.636
MQD0L08	6	0.7396	-7.5824	17.4684	9.7779	0.0000	0.0000	0.0000	0.0000	0.51742	0.46346	4.786
D8008D	7	81.4384	-80.2483	4.1692	4.6966	0.0000	0.0000	0.0000	0.0000	0.53631	0.48063	5.705
MQD0L09	8	90.2904	24.8905	3.5269	-0.1556	0.0000	0.0000	0.0000	0.0000	0.53658	0.48705	5.855
D8008E	9	50.3498	18.5752	4.0581	-0.4225	0.0000	0.0000	0.0000	0.0000	0.53875	0.52610	6.774
MQD0L10	10	47.1375	3.1709	4.0016	0.7933	0.0000	0.0000	0.0000	0.0000	0.53924	0.53198	6.924
D8008F	11	44.3032	3.0643	3.3645	0.6082	0.0000	0.0000	0.0000	0.0000	0.54082	0.55174	7.379
MBLOR01	12	42.0900	2.9937	3.0363	0.5796	-0.0144	-0.0963	0.0000	0.0000	0.54193	0.56670	7.679
D8003	13	24.0336	2.1653	4.3690	-0.9604	-0.3514	-0.0963	0.0000	0.0000	0.55948	0.77209	11.179
MQDOR01	14	24.9386	-8.3275	4.3799	0.8893	-0.3773	-0.2515	0.0000	0.0000	0.56046	0.77749	11.329
D8004	15	89.9928	-15.9013	2.5522	-0.2085	-1.0527	-0.2515	0.0000	0.0000	0.56949	0.92589	14.014
MQDOR02	16	91.0428	8.9980	2.7323	-1.0086	-1.0685	0.0405	0.0000	0.0000	0.56975	0.93500	14.164
D8005	17	36.9525	5.6805	20.1913	-3.7293	-0.9193	0.0405	0.0000	0.0000	0.57987	1.01762	17.849
MBLOR02	18	33.9571	5.4120	22.1031	-3.2655	-0.8971	0.1361	0.0000	0.0000	0.58121	1.01988	18.149
D8006	19	1.3736	0.4746	74.4195	-6.1862	-0.1435	0.1361	0.0000	0.0000	0.73160	1.04167	23.684
MQDOR03	20	1.2943	0.0597	73.8097	10.2063	-0.1253	0.1066	0.0000	0.0000	0.74965	1.04199	23.834
D8006	21	24.3880	-4.2319	4.4777	2.3195	0.4646	0.1066	0.0000	0.0000	0.97221	1.09123	29.369
MQDOR04	22	24.5798	2.9720	3.9939	0.9536	0.4702	-0.0311	0.0000	0.0000	0.97318	1.09692	29.519
D8006	23	3.9350	0.7577	8.0841	-1.6925	0.2980	-0.0311	0.0000	0.0000	1.06832	1.38321	35.054
MQDOR05	24	3.8369	-0.0969	8.3407	0.0003	0.2980	0.0311	0.0000	0.0000	1.07450	1.38610	35.204
D8006	25	12.9696	-1.5530	12.0103	-0.6633	0.4703	0.0311	0.0000	0.0000	1.21807	1.47936	40.739
MQDOR06	26	12.8651	2.2393	12.7545	-4.3705	0.4646	-0.1066	0.0000	0.0000	1.21991	1.48130	40.889
D8006	27	2.3986	-0.3483	109.4233	-13.0941	-0.1253	-0.1066	0.0000	0.0000	1.45641	1.50497	46.424
MQDOR07	28	2.5964	-0.9845	109.7177	11.1533	-0.1435	-0.1362	0.0000	0.0000	1.46604	1.50519	46.574
D8006	29	36.7325	-5.1827	21.2637	4.8272	-0.8971	-0.1362	0.0000	0.0000	1.56194	1.52347	52.109
MBLOR03	30	39.5536	-5.4109	18.4703	5.0534	-0.9193	-0.0405	0.0000	0.0000	1.56319	1.52588	52.409
D8005	31	89.8269	-8.2318	0.7364	-0.2410	-1.0685	-0.0405	0.0000	0.0000	1.57304	1.78242	56.094
MQDOR08	32	88.5997	16.3005	0.8742	-0.6902	-1.0527	0.2515	0.0000	0.0000	1.57330	1.81256	56.244
D8004	33	22.7676	8.2180	16.7559	-5.2247	-0.3774	0.2515	0.0000	0.0000	1.58282	1.93631	58.929
MQDOR09	34	21.7587	-1.3486	17.2407	2.0627	-0.3514	0.0963	0.0000	0.0000	1.58391	1.93770	59.079
D8003	35	32.7855	-1.8020	6.5354	0.9959	-0.0144	0.0963	0.0000	0.0000	1.60482	1.99118	62.579
MBLOR04	36	34.1856	-1.8406	5.8506	1.0856	0.0000	0.0000	0.0000	0.0000	1.60625	1.99890	62.879
D8009	37	40.3022	-2.0427	3.3545	0.4991	0.0000	0.0000	0.0000	0.0000	1.61300	2.05675	64.454

MAXIMUM LATTICE FUNCTIONS :
BETA X = 0.9104277378E+02 BETA Y = 0.1097176949E+03
ETA X = 0.4702868688E+00 ETA Y = 0.0000000000E+00

1
OPERATION LIST ,

MATRIX

1 -1,

AFTER :D8009 ELEMENT #: 37

* TRANSFORMATION MATRIX *

FIRST ORDER MATRIX

- 0.9220698E+00 -0.9038050E+01 0.0000000E+00 0.0000000E+00 0.0000000E+00 -0.2901582E-04
- 0.1839956E+00 -0.7189928E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 -0.4161022E-05
- 0.0000000E+00 0.0000000E+00 0.3325303E+00 0.3300033E+01 0.0000000E+00 0.0000000E+00
- 0.0000000E+00 0.0000000E+00 -0.8640218E-01 0.2149789E+01 0.0000000E+00 0.0000000E+00
- 0.1502031E-05 0.1674536E-04 0.0000000E+00 0.0000000E+00 0.1000000E+01 -0.1740337E+00
- 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.1000000E+01

HORIZONTAL MOVEMENT ANALYSIS

COMPACTION FACTOR =-0.2700108E-02 GAMMA TR = -0.1924463E+02

COS(MU)= 0.10153850993061E+00 NU = 0.76618825446516E+00
ETA =-0.68285983595770E-05 ETAP =-0.31515281997871E-05
ALPHA =-0.82479417895458E+00 BETA = 0.90850052429692E+01

VERTICAL MOVEMENT ANALYSIS

MOVEMENT IS UNSTABLE
 HALF-TRACE = 0.12411595255231E+01
 EIGENVALUE1 = 0.19763309122055E+01
 WITH EIGENVECTOR :
 Y = -0.89510059159876E+00 YP = -0.44586425167259E+00
 EIGENVALUE2 = 0.50598813884059E+00
 WITH EIGENVECTOR :
 Y = -0.99862145061170E+00 YP = -0.52489983598555E-01

1
 OPERATION LIST ,
 HARDWARE
 0.122537 0 80.6 0 -217.473 0 0.0 0 1 0 ;

VALUES ARE FOR ENERGY : 0.123E+00 GEV
 THE LENGTHS ARE MEASURED IN METERS ,THE ANGLES IN DEGREES

THE SKYZ COORDINATES,AZIMUTH,ELEVATION AND ROLL ANGLES ARE :

#	NAME	S	X	Y	Z	THETA	PHI	PSI
1	D8008A	1.3628500000	80.6000000000	0.0000000000	-216.1101500000	0.0000000000	0.0000000000	0.0000000000
2	MQDOL06	1.5128500000	80.6000000000	0.0000000000	-215.9601500000	0.0000000000	0.0000000000	0.0000000000
3	D8008B	3.5674500000	80.6000000000	0.0000000000	-213.9055500000	0.0000000000	0.0000000000	0.0000000000
4	MQDOL07	3.7174500000	80.6000000000	0.0000000000	-213.7555500000	0.0000000000	0.0000000000	0.0000000000
5	D8008C	4.6363500000	80.6000000000	0.0000000000	-212.8366500000	0.0000000000	0.0000000000	0.0000000000
6	MQDOL08	4.7863500000	80.6000000000	0.0000000000	-212.6866500000	0.0000000000	0.0000000000	0.0000000000
7	D8008D	5.7051500000	80.6000000000	0.0000000000	-211.7678500000	0.0000000000	0.0000000000	0.0000000000
8	MQDOL09	5.8551500000	80.6000000000	0.0000000000	-211.6178500000	0.0000000000	0.0000000000	0.0000000000
9	D8008E	6.7740500000	80.6000000000	0.0000000000	-210.6989500000	0.0000000000	0.0000000000	0.0000000000
10	MQDOL10	6.9240500000	80.6000000000	0.0000000000	-210.5489500000	0.0000000000	0.0000000000	0.0000000000
11	D8008F	7.3786100000	80.6000000000	0.0000000000	-210.0943900000	0.0000000000	0.0000000000	0.0000000000
12	MBLOR01	7.6786100000	80.6143878607	0.0000000000	-209.7948505183	5.4999800000	0.0000000000	0.0000000000
13	D8003	11.1786100000	80.9498467784	0.0000000000	-206.3109637069	5.4999800000	0.0000000000	0.0000000000
14	MQDOR01	11.3286100000	80.9642235891	0.0000000000	-206.1616542721	5.4999800000	0.0000000000	0.0000000000
15	D8004	14.0136100000	81.2215685017	0.0000000000	-203.4890153897	5.4999800000	0.0000000000	0.0000000000
16	MQDOR02	14.1636100000	81.2359453125	0.0000000000	-203.3397059549	5.4999800000	0.0000000000	0.0000000000
17	D8005	17.8486100000	81.5891356301	0.0000000000	-199.6716708406	5.4999800000	0.0000000000	0.0000000000
18	MBLOR02	18.1486100000	81.6035234908	0.0000000000	-199.3721313589	0.0000000000	0.0000000000	0.0000000000
19	D8006	23.6837200000	81.6035234908	0.0000000000	-193.8370213589	0.0000000000	0.0000000000	0.0000000000
20	MQDOR03	23.8337200000	81.6035234908	0.0000000000	-193.6870213589	0.0000000000	0.0000000000	0.0000000000
21	D8006	29.3688300000	81.6035234908	0.0000000000	-188.1519113589	0.0000000000	0.0000000000	0.0000000000
22	MQDOR04	29.5188300000	81.6035234908	0.0000000000	-188.0019113589	0.0000000000	0.0000000000	0.0000000000
23	D8006	35.0539400000	81.6035234908	0.0000000000	-182.4668013589	0.0000000000	0.0000000000	0.0000000000
24	MQDOR05	35.2039400000	81.6035234908	0.0000000000	-182.3168013589	0.0000000000	0.0000000000	0.0000000000
25	D8006	40.7390500000	81.6035234908	0.0000000000	-176.7816913589	0.0000000000	0.0000000000	0.0000000000
26	MQDOR06	40.8890500000	81.6035234908	0.0000000000	-176.6316913589	0.0000000000	0.0000000000	0.0000000000
27	D8006	46.4241600000	81.6035234908	0.0000000000	-171.0965813589	0.0000000000	0.0000000000	0.0000000000
28	MQDOR07	46.5741600000	81.6035234908	0.0000000000	-170.9465813589	0.0000000000	0.0000000000	0.0000000000
29	D8006	52.1092700000	81.6035234908	0.0000000000	-165.4114713589	0.0000000000	0.0000000000	0.0000000000
30	MBLOR03	52.4092700000	81.5891356301	0.0000000000	-165.1119318772	-5.4999800000	0.0000000000	0.0000000000
31	D8005	56.0942700000	81.2359453125	0.0000000000	-161.4438967629	-5.4999800000	0.0000000000	0.0000000000
32	MQDOR08	56.2442700000	81.2215685017	0.0000000000	-161.2945873281	-5.4999800000	0.0000000000	0.0000000000
33	D8004	58.9292700000	80.9642235891	0.0000000000	-158.6219484457	-5.4999800000	0.0000000000	0.0000000000
34	MQDOR09	59.0792700000	80.9498467784	0.0000000000	-158.4726390109	-5.4999800000	0.0000000000	0.0000000000
35	D8003	62.5792700000	80.6143878607	0.0000000000	-154.9887521995	-5.4999800000	0.0000000000	0.0000000000
36	MBLOR04	62.8792700000	80.6000000000	0.0000000000	-154.6892127178	0.0000000000	0.0000000000	0.0000000000
37	D8009	64.4543500000	80.6000000000	0.0000000000	-153.1141327178	0.0000000000	0.0000000000	0.0000000000

1
 STOP

Arc1.outd

IDIMAT VERSION 2.9 PROD
 ODATE AND TIME OF THIS RUN: 12-JUN-2007 12:48:08

XSIF Parser Version 2.1
 Version Date: 01-JAN-2004
 Run: 12-JUN-2007 12:48:08
 XSIF Parser developed by NLC Department,
 Stanford Linear Accelerator Center.

UTRANSPORT

TITLE
 CONVERTED FROM ../../OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//ARCL.OPT

- 5
 MAQ1S01: SBEND, L=1.01774, ANGLE=18.5784, K1=-0.208077, &
 E1=0, E2=18.5784, HGAP=0.01905, &
 HGAPX=0.01905, &
 FINT=0.5, TILT=90
- 10
 D100: DRIFT, L=3.16493
 MAI1S03: SBEND, L=1.00439, ANGLE=-18.5784, K1=-0.034741, &
 E1=-9.2892, E2=-9.2892, HGAP=0.012827, &
 HGAPX=0.012827, &
 FINT=0.5, TILT=90
- 15
 D101A: DRIFT, L=0.5856
 IPM1S01: MONITOR, L=0
 D102: DRIFT, L=0.29965
 MQB1S01: QUADRUPOLE, L=0.15, K1=-1.2356, TILT=0
 D103: DRIFT, L=0.26815

20 MBT1S01H: GKICK, L=1E-08, DXP=0, DYP=0
D104: DRIFT, L=0.19609
MBT1S01V: GKICK, L=1E-08, DXP=0, DYP=0
D105: DRIFT, L=0.50546
ITV1S01: MONITOR, L=0
25 D106A: DRIFT, L=4.1204
IPM1S02: MONITOR, L=0
MQB1S02: QUADRUPOLE, L=0.15, K1=1.76465, TILT=0
MBT1S02H: GKICK, L=1E-08, DXP=0, DYP=0
MBT1S02V: GKICK, L=1E-08, DXP=0, DYP=0
30 D107: DRIFT, L=1.58611
IPM1S03: MONITOR, L=0
MQB1S03: QUADRUPOLE, L=0.15, K1=-2.49341, TILT=0
D108: DRIFT, L=0.625
MBT1S04H: GKICK, L=1E-08, DXP=0, DYP=0
35 MA11S04: SBEND, L=1.00449, ANGLE=18.7887, K1=-0.198183, &
E1=9.39437, E2=9.39437, HGAP=0.012827, &
HGAPX=0.012827, &
FINT=0.5, TILT=90
D109: DRIFT, L=1.05629
40 IPM1S06: MONITOR, L=0
MA11S06: SBEND, L=1.00449, ANGLE=-18.7887, K1=-0.0226495, &
E1=-9.39437, E2=-9.39437, HGAP=0.012827, &
HGAPX=0.012827, &
FINT=0.5, TILT=90
45 D110: DRIFT, L=0.724995
MQB1S04: QUADRUPOLE, L=0.15, K1=-3.28797, TILT=0
D111: DRIFT, L=0.9697
ITV1S04: MONITOR, L=0
D112: DRIFT, L=0.58065
50 IPM1S05: MONITOR, L=0
MQB1S05: QUADRUPOLE, L=0.15, K1=2.55281, TILT=0
MBT1S05H: GKICK, L=1E-08, DXP=0, DYP=0
MBT1S05V: GKICK, L=1E-08, DXP=0, DYP=0
D113: DRIFT, L=1.38576
55 MQB1S06: QUADRUPOLE, L=0.15, K1=-0.3677, TILT=0
D114: DRIFT, L=3.55035
IPM1S07: MONITOR, L=0
MQB1S07: QUADRUPOLE, L=0.15, K1=-1.68369, TILT=0
D115: DRIFT, L=0.46424
60 MBT1S07V: GKICK, L=1E-08, DXP=0, DYP=0
D116: DRIFT, L=5.08611
IPM1S08: MONITOR, L=0
MQB1S08: QUADRUPOLE, L=0.15, K1=1.27337, TILT=0
65 MAZ1S08H: GKICK, L=1E-08, DXP=0, DYP=0
MBT1S08H: GKICK, L=1E-08, DXP=0, DYP=0
MBT1S08V: GKICK, L=1E-08, DXP=0, DYP=0
D117: DRIFT, L=4.46076
MAZ1S09V: GKICK, L=1E-08, DXP=0, DYP=0
D118: DRIFT, L=0.62535
70 IPM1S09: MONITOR, L=0
MQB1S09: QUADRUPOLE, L=0.15, K1=-1.37833, TILT=0
MBT1S09V: GKICK, L=1E-08, DXP=0, DYP=0
IPM1S10: MONITOR, L=0
MQB1S10: QUADRUPOLE, L=0.15, K1=0.928455, TILT=0
75 MBT1S10H: GKICK, L=1E-08, DXP=0, DYP=0
MBT1S10V: GKICK, L=1E-08, DXP=0, DYP=0
D119: DRIFT, L=14.5108
MAZ1E01H: GKICK, L=1E-08, DXP=0, DYP=0
D120: DRIFT, L=0.5
80 MAZ1E01V: GKICK, L=1E-08, DXP=0, DYP=0
IPM1E01: MONITOR, L=0
MQB1E01: QUADRUPOLE, L=0.15, K1=-0.463027, TILT=0
MBT1E01H: GKICK, L=1E-08, DXP=0, DYP=0
MBT1E01V: GKICK, L=1E-08, DXP=0, DYP=0
85 IH1A1E01: MONITOR, L=0
D121: DRIFT, L=0.4803
MBW1E01: SBEND, L=0.500137, ANGLE=-2.32225, K1=-0, &
E1=-0, E2=-2.32225, HGAP=0, &
HGAPX=0, &
90 FINT=0.5, TILT=0
D122: DRIFT, L=5.75472
MBX1E02: SBEND, L=1.00027, ANGLE=4.64449, K1=-0, &
E1=2.32225, E2=2.32225, HGAP=0, &
HGAPX=0, &
95 FINT=0.5, TILT=0
MBW1E03: SBEND, L=0.500137, ANGLE=-2.32225, K1=-0, &
E1=-2.32225, E2=-0, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
100 D123: DRIFT, L=0.525003
IPM1E02: MONITOR, L=0
MQB1E02: QUADRUPOLE, L=0.15, K1=0.482858, TILT=0
MBT1E02H: GKICK, L=1E-08, DXP=0, DYP=0
MBT1E02V: GKICK, L=1E-08, DXP=0, DYP=0
105 D124: DRIFT, L=15.6361
IPM1E03: MONITOR, L=0
MQB1E03: QUADRUPOLE, L=0.15, K1=-0.53656, TILT=0
MBT1E03H: GKICK, L=1E-08, DXP=0, DYP=0
MBT1E03V: GKICK, L=1E-08, DXP=0, DYP=0
110 D124A: DRIFT, L=0.70155
IH1A1E03: MONITOR, L=0
D124B: DRIFT, L=14.9346
IPM1A01: MONITOR, L=0
MQB1A01: QUADRUPOLE, L=0.15, K1=0.936792, TILT=0
115 MBT1A01H: GKICK, L=1E-08, DXP=0, DYP=0
MBT1A01V: GKICK, L=1E-08, DXP=0, DYP=0
ITV1A01: MONITOR, L=0
D125: DRIFT, L=1.71272
MQB1A02: QUADRUPOLE, L=0.15, K1=-0.235904, TILT=0
120 D126: DRIFT, L=2.68242
MB1E1A01: SBEND, L=1.00161, ANGLE=11.25, K1=0.133478, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
HGAPX=0.0124856, &

FINT=0.5, TILT=0
125 D127: DRIFT, L=5.2152
IPMLA03: MONITOR, L=0
MQBLA03: QUADRUPOLE, L=0.15, K1=-1.12133, TILT=0
MBTLA03V: GKICK, L=1E-08, DXP=0, DYP=0
D128: DRIFT, L=2.3809
130 D159: DRIFT, L=0.15
D129: DRIFT, L=0.21202
IPMLA04: MONITOR, L=0
MQBLA04: QUADRUPOLE, L=0.15, K1=2.11334, TILT=0
MBTLA04H: GKICK, L=1E-08, DXP=0, DYP=0
135 D130: DRIFT, L=0.70155
ITVLA04: MONITOR, L=0
IHALA04: MONITOR, L=0
D131: DRIFT, L=1.87544
IPMLA05: MONITOR, L=0
MQBLA05: QUADRUPOLE, L=0.15, K1=-0.84544, TILT=0
MBTLA05V: GKICK, L=1E-08, DXP=0, DYP=0
D132: DRIFT, L=5.05061
MBELA02: SBEND, L=1.00161, ANGLE=11.25, K1=0.133478, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
145 HGAPX=0.0124856, &
FINT=0.5, TILT=0
IPMLA06: MONITOR, L=0
MQBLA06: QUADRUPOLE, L=0.15, K1=0.825276, TILT=0
MBTLA06H: GKICK, L=1E-08, DXP=0, DYP=0
150 IHALA06: MONITOR, L=0
D133: DRIFT, L=4.54514
MBELA03: SBEND, L=1.00161, ANGLE=11.25, K1=0.133478, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
HGAPX=0.0124856, &
155 FINT=0.5, TILT=0
IPMLA07: MONITOR, L=0
MQBLA07: QUADRUPOLE, L=0.15, K1=-0.849229, TILT=0
MBTLA07V: GKICK, L=1E-08, DXP=0, DYP=0
D134: DRIFT, L=2.74293
160 IPMLA08: MONITOR, L=0
MQBLA08: QUADRUPOLE, L=0.15, K1=1.54877, TILT=0
MBTLA08H: GKICK, L=1E-08, DXP=0, DYP=0
D135: DRIFT, L=2.93902
IPMLA09: MONITOR, L=0
165 MQBLA09: QUADRUPOLE, L=0.15, K1=-0.757593, TILT=0
MBTLA09V: GKICK, L=1E-08, DXP=0, DYP=0
D136: DRIFT, L=5.0506
MBELA04: SBEND, L=1.00161, ANGLE=11.25, K1=0.133478, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
170 HGAPX=0.0124856, &
FINT=0.5, TILT=0
D137: DRIFT, L=2.38277
IPMLA10: MONITOR, L=0
D138: DRIFT, L=2.38277
175 IPMLA11: MONITOR, L=0
MQBLA11: QUADRUPOLE, L=0.15, K1=1.21993, TILT=0
MBTLA11H: GKICK, L=1E-08, DXP=0, DYP=0
ITVLA11: MONITOR, L=0
IHALA11: MONITOR, L=0
180 MBELA05: SBEND, L=1.00161, ANGLE=11.25, K1=0.133478, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
HGAPX=0.0124856, &
FINT=0.5, TILT=0
MQBLA13: QUADRUPOLE, L=0.15, K1=-0.897281, TILT=0
185 MBTLA13V: GKICK, L=1E-08, DXP=0, DYP=0
IPMLA14: MONITOR, L=0
MQBLA14: QUADRUPOLE, L=0.15, K1=1.39493, TILT=0
MBTLA14H: GKICK, L=1E-08, DXP=0, DYP=0
IHALA14: MONITOR, L=0
190 D157: DRIFT, L=1.87544
D140: DRIFT, L=0.51167
IPMLA15: MONITOR, L=0
MQBLA15: QUADRUPOLE, L=0.15, K1=-0.854412, TILT=0
MBTLA15V: GKICK, L=1E-08, DXP=0, DYP=0
195 MBELA06: SBEND, L=1.00161, ANGLE=11.25, K1=0.133478, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
HGAPX=0.0124856, &
FINT=0.5, TILT=0
IPMLA16: MONITOR, L=0
MQBLA16: QUADRUPOLE, L=0.15, K1=0.563058, TILT=0
200 MBTLA16H: GKICK, L=1E-08, DXP=0, DYP=0
MBELA07: SBEND, L=1.00161, ANGLE=11.25, K1=0.133478, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
HGAPX=0.0124856, &
205 FINT=0.5, TILT=0
D141: DRIFT, L=5.51485
IPMLA17: MONITOR, L=0
MQBLA17: QUADRUPOLE, L=0.15, K1=-1.00616, TILT=0
MBTLA17V: GKICK, L=1E-08, DXP=0, DYP=0
210 IPMLA18: MONITOR, L=0
MQBLA18: QUADRUPOLE, L=0.15, K1=1.33549, TILT=0
MBTLA18H: GKICK, L=1E-08, DXP=0, DYP=0
IHALA18: MONITOR, L=0
D158: DRIFT, L=2.23747
215 IPMLA19: MONITOR, L=0
MQBLA19: QUADRUPOLE, L=0.15, K1=-0.586939, TILT=0
MBTLA19V: GKICK, L=1E-08, DXP=0, DYP=0
MBELA08: SBEND, L=1.00161, ANGLE=11.25, K1=0.133478, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
220 HGAPX=0.0124856, &
FINT=0.5, TILT=0
D142: DRIFT, L=2.68242
IPMLA21: MONITOR, L=0
MQBLA21: QUADRUPOLE, L=0.15, K1=0.800092, TILT=0
225 MBTLA21H: GKICK, L=1E-08, DXP=0, DYP=0
ITVLA21: MONITOR, L=0
IHALA21: MONITOR, L=0

MBE1A09: SBEND, L=1.00161, ANGLE=11.25, K1=0.133478, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
230 HGAPX=0.0124856, &
FINT=0.5, TILT=0
MQBLA23: QUADRUPOLE, L=0.15, K1=-0.586939, TILT=0
MBTLA23V: GKICK, L=1E-08, DXP=0, DYP=0
IPMLA24: MONITOR, L=0
235 MQBLA24: QUADRUPOLE, L=0.15, K1=1.33549, TILT=0
MBTLA24H: GKICK, L=1E-08, DXP=0, DYP=0
IHALA24: MONITOR, L=0
IPMLA25: MONITOR, L=0
MQBLA25: QUADRUPOLE, L=0.15, K1=-1.00616, TILT=0
240 MBTLA25V: GKICK, L=1E-08, DXP=0, DYP=0
MBE1A10: SBEND, L=1.00161, ANGLE=11.25, K1=0.133478, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
HGAPX=0.0124856, &
FINT=0.5, TILT=0
245 IPMLA26: MONITOR, L=0
MQBLA26: QUADRUPOLE, L=0.15, K1=0.563058, TILT=0
MBTLA26H: GKICK, L=1E-08, DXP=0, DYP=0
MBE1A11: SBEND, L=1.00161, ANGLE=11.25, K1=0.133478, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
250 HGAPX=0.0124856, &
FINT=0.5, TILT=0
IPMLA27: MONITOR, L=0
MQBLA27: QUADRUPOLE, L=0.15, K1=-0.854412, TILT=0
MBTLA27V: GKICK, L=1E-08, DXP=0, DYP=0
255 IPMLA28: MONITOR, L=0
MQBLA28: QUADRUPOLE, L=0.15, K1=1.39493, TILT=0
MBTLA28H: GKICK, L=1E-08, DXP=0, DYP=0
MQBLA29: QUADRUPOLE, L=0.15, K1=-0.897281, TILT=0
D143: DRIFT, L=5.51484
260 MBE1A12: SBEND, L=1.00161, ANGLE=11.25, K1=0.133478, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
HGAPX=0.0124856, &
FINT=0.5, TILT=0
MBTLA30V: GKICK, L=1E-08, DXP=0, DYP=0
265 D144: DRIFT, L=1.91853
IPMLA31: MONITOR, L=0
MQBLA31: QUADRUPOLE, L=0.15, K1=1.21992, TILT=0
MBTLA31H: GKICK, L=1E-08, DXP=0, DYP=0
ITVIA31: MONITOR, L=0
270 MBE1A13: SBEND, L=1.00161, ANGLE=11.25, K1=0.133478, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
HGAPX=0.0124856, &
FINT=0.5, TILT=0
MQBLA33: QUADRUPOLE, L=0.15, K1=-0.757593, TILT=0
275 MBTLA33V: GKICK, L=1E-08, DXP=0, DYP=0
IPMLA34: MONITOR, L=0
MQBLA34: QUADRUPOLE, L=0.15, K1=1.54877, TILT=0
MBTLA34H: GKICK, L=1E-08, DXP=0, DYP=0
D139: DRIFT, L=2.57699
280 IPMLA35: MONITOR, L=0
MQBLA35: QUADRUPOLE, L=0.15, K1=-0.849229, TILT=0
MBTLA35V: GKICK, L=1E-08, DXP=0, DYP=0
MBE1A14: SBEND, L=1.00161, ANGLE=11.25, K1=0.133478, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
285 HGAPX=0.0124856, &
FINT=0.5, TILT=0
IPMLA36: MONITOR, L=0
MQBLA36: QUADRUPOLE, L=0.15, K1=0.825276, TILT=0
MBTLA36H: GKICK, L=1E-08, DXP=0, DYP=0
290 D145: DRIFT, L=5.24669
MBE1A15: SBEND, L=1.00161, ANGLE=11.25, K1=0.133478, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
HGAPX=0.0124856, &
FINT=0.5, TILT=0
295 IPMLA37: MONITOR, L=0
MQBLA37: QUADRUPOLE, L=0.15, K1=-0.84544, TILT=0
MBTLA37V: GKICK, L=1E-08, DXP=0, DYP=0
IPMLA38: MONITOR, L=0
MQBLA38: QUADRUPOLE, L=0.15, K1=2.11334, TILT=0
300 MBTLA38H: GKICK, L=1E-08, DXP=0, DYP=0
MQBLA39: QUADRUPOLE, L=0.15, K1=-1.12133, TILT=0
MBE1A16: SBEND, L=1.00161, ANGLE=11.25, K1=0.133478, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
305 HGAPX=0.0124856, &
FINT=0.5, TILT=0
MQBLA40: QUADRUPOLE, L=0.15, K1=0.904201, TILT=0
MBTLA40V: GKICK, L=1E-08, DXP=0, DYP=0
IPMLR01: MONITOR, L=0
MQBLR01: QUADRUPOLE, L=0.15, K1=0.449587, TILT=0
310 MBTLR01H: GKICK, L=1E-08, DXP=0, DYP=0
ITVLR01: MONITOR, L=0
D146: DRIFT, L=4.58065
IPMLR02: MONITOR, L=0
MQBLR02: QUADRUPOLE, L=0.15, K1=-1.69222, TILT=0
315 MBTLR02V: GKICK, L=1E-08, DXP=0, DYP=0
IPMLR03: MONITOR, L=0
MQBLR03: QUADRUPOLE, L=0.15, K1=1.80718, TILT=0
MBTLR03H: GKICK, L=1E-08, DXP=0, DYP=0
D147: DRIFT, L=5.2822
320 IPMLR04: MONITOR, L=0
MQBLR04: QUADRUPOLE, L=0.15, K1=-1.9981, TILT=0
MBTLR04V: GKICK, L=1E-08, DXP=0, DYP=0
ITVLR04: MONITOR, L=0
D148: DRIFT, L=2.6898
325 MQBLR05: QUADRUPOLE, L=0.15, K1=-0.300043, TILT=0
D149: DRIFT, L=1.55035
IPMLR06: MONITOR, L=0
MQBLR06: QUADRUPOLE, L=0.15, K1=2.76453, TILT=0
330 MBTLR06H: GKICK, L=1E-08, DXP=0, DYP=0
D150: DRIFT, L=1.58185
IPMLR07: MONITOR, L=0

MQBLR07: QUADRUPOLE, L=0.15, K1=-2.8459, TILT=0
MBTLR07V: GKICK, L=1E-08, DXP=0, DYP=0
D151: DRIFT, L=0.45126
335 MBTALR01H: GKICK, L=1E-08, DXP=0, DYP=0
MAILR01: SBEND, L=1.00449, ANGLE=-18.7887, K1=-0.0226495, &
E1=-9.39437, E2=-9.39437, HGAP=0.012827, &
HGAPX=0.012827, &
FINT=0.5, TILT=90
340 MAILR03: SBEND, L=1.00449, ANGLE=18.7887, K1=-0.198183, &
E1=9.39437, E2=9.39437, HGAP=0.012827, &
HGAPX=0.012827, &
FINT=0.5, TILT=90
D152: DRIFT, L=0.624995
345 MQBLR08: QUADRUPOLE, L=0.15, K1=-2.49365, TILT=0
IPMLR08: MONITOR, L=0
D153: DRIFT, L=1.7822
MBTLR09H: GKICK, L=1E-08, DXP=0, DYP=0
MQBLR09: QUADRUPOLE, L=0.15, K1=1.79255, TILT=0
350 IPMLR09: MONITOR, L=0
D154A: DRIFT, L=4.62586
MBTLR10V: GKICK, L=1E-08, DXP=0, DYP=0
MBTLR10H: GKICK, L=1E-08, DXP=0, DYP=0
MQBLR10: QUADRUPOLE, L=0.15, K1=-1.23554, TILT=0
355 IPMLR10: MONITOR, L=0
D155A: DRIFT, L=0.5856
MAILR04: SBEND, L=1.00439, ANGLE=-18.5784, K1=-0.034741, &
E1=-9.2892, E2=-9.2892, HGAP=0.012827, &
HGAPX=0.012827, &
FINT=0.5, TILT=90
360 D156: DRIFT, L=3.16494
MAQLR06: SBEND, L=1.01774, ANGLE=18.5784, K1=-0.208077, &
E1=18.5784, E2=0, HGAP=0.01905, &
HGAPX=0.01905, &
FINT=0.5, TILT=90
365
ARCL: LINE=(MAQ1S01, &
D100, MAILS03, D101A, IPM1S01, D102, &
MQB1S01, D103, MBT1S01H, D104, MBT1S01V, &
370 D105, ITV1S01, D106A, IPM1S02, D102, &
MQB1S02, D103, MBT1S02H, D104, MBT1S02V, &
D107, IPM1S03, D102, MQB1S03, D108, &
MBTAL1S04H, MAILS04, D109, IPMAILS06, MAILS06, &
D110, MQB1S04, D111, ITV1S04, D112, &
375 IPM1S05, D102, MQB1S05, D103, MBT1S05H, &
D104, MBT1S05V, D113, MQB1S06, D114, &
IPM1S07, D102, MQB1S07, D115, MBT1S07V, &
D116, IPM1S08, D102, MQB1S08, D103, &
MAZ1S08H, D104, MBT1S08H, MBT1S08V, D117, &
380 MAZ1S09V, D118, IPM1S09, D102, MQB1S09, &
D115, MBT1S09V, D116, IPM1S10, D102, &
MQB1S10, D103, MBT1S10H, D104, MBT1S10V, &
D119, MAZ1E01H, D120, MAZ1E01V, D118, &
IPM1E01, D102, MQB1E01, D103, MBT1E01H, &
385 D104, MBT1E01V, D105, IHALA01, D121, &
MBW1E01, D122, MBX1E02, D122, MBW1E03, &
D123, D118, IPM1E02, D102, MQB1E02, &
D103, MBT1E02H, D104, MBT1E02V, D124, &
IPM1E03, D102, MQB1E03, D103, MBT1E03H, &
390 D104, MBT1E03V, D124A, IHALA03, D124B, &
IPM1A01, D102, MQB1A01, D103, MBT1A01H, &
D104, MBT1A01V, D105, ITV1A01, D125, &
MQB1A02, D126, MBELA01, D127, IPM1A03, &
D102, MQB1A03, D115, MBT1A03V, D128, &
395 D159, D129, IPM1A04, D102, MQB1A04, &
D103, MBT1A04H, D130, ITV1A04, IHALA04, &
D131, D159, D129, IPM1A05, D102, &
MQB1A05, D115, MBT1A05V, D132, MBELA02, &
D127, IPM1A06, D102, MQB1A06, D103, &
400 MBT1A06H, D130, IHALA06, D133, MBELA03, &
D127, IPM1A07, D102, MQB1A07, D115, &
MBT1A07V, D134, IPM1A08, D102, MQB1A08, &
D103, MBT1A08H, D135, IPM1A09, D102, &
MQB1A09, D115, MBT1A09V, D136, MBELA04, &
405 D137, IPM1A10, D102, D159, D138, &
IPM1A11, D102, MQB1A11, D103, MBT1A11H, &
D130, ITV1A11, IHALA11, D125, D159, &
D126, MBELA05, D127, D102, MQB1A13, &
D115, MBT1A13V, D128, D159, D129, &
410 IPM1A14, D102, MQB1A14, D103, MBT1A14H, &
D130, IHALA14, D157, D159, D140, &
IPM1A15, MQB1A15, D115, MBT1A15V, D132, &
MBELA06, D127, IPM1A16, D102, MQB1A16, &
D115, MBT1A16H, D136, MBELA07, D141, &
415 IPM1A17, MQB1A17, D115, MBT1A17V, D134, &
IPM1A18, D102, MQB1A18, D103, MBT1A18H, &
D130, IHALA18, D158, IPM1A19, D102, &
MQB1A19, D115, MBT1A19V, D136, MBELA08, &
D142, D159, D138, IPM1A21, D102, &
420 MQB1A21, D103, MBT1A21H, D130, ITV1A21, &
IHALA21, D125, D159, D126, MBELA09, &
D127, D102, MQB1A23, D115, MBT1A23V, &
D128, D159, D129, IPM1A24, D102, &
MQB1A24, D103, MBT1A24H, D130, IHALA24, &
425 D157, D159, D140, IPM1A25, MQB1A25, &
D115, MBT1A25V, D132, MBELA10, D127, &
IPM1A26, D102, MQB1A26, D115, MBT1A26H, &
D136, MBELA11, D141, IPM1A27, MQB1A27, &
D115, MBT1A27V, D134, IPM1A28, D102, &
430 MQB1A28, D103, MBT1A28H, D135, D102, &
MQB1A29, D143, MBELA12, D142, D159, &
D115, MBT1A30V, D144, IPM1A31, D102, &
MQB1A31, D103, MBT1A31H, D130, ITV1A31, &
D125, D159, D126, MBELA13, D127, &
435 D102, MQB1A33, D115, MBT1A33V, D128, &

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D159, D129, IPM1A34, D102, MQB1A34, &
D103, MBT1A34H, D139, D159, D140, &
IPM1A35, MQB1A35, D115, MBT1A35V, D132, &
MBE1A14, D127, IPM1A36, D102, MQB1A36, &
440 D103, MBT1A36H, D145, MBE1A15, D141, &
IPM1A37, MQB1A37, D115, MBT1A37V, D134, &
IPM1A38, D102, MQB1A38, D103, MBT1A38H, &
D135, D102, MQB1A39, D143, MBE1A16, &
D142, MQB1A40, D115, MBT1A40V, D144, &
445 IPM1R01, D102, MQB1R01, D103, MBT1R01H, &
D130, ITV1R01, D146, IPM1R02, D102, &
MQB1R02, D115, MBT1R02V, D116, IPM1R03, &
D102, MQB1R03, D103, MBT1R03H, D147, &
IPM1R04, D102, MQB1R04, D115, MBT1R04V, &
450 D105, ITV1R04, D148, MQB1R05, D149, &
IPM1R06, D102, MQB1R06, D103, MBT1R06H, &
D150, IPM1R07, MQB1R07, D115, MBT1R07V, &
D151, MBT1R01H, MA11R01, D109, MA11R03, &
D152, MQB1R08, D102, IPM1R08, D153, &
455 MBT1R09H, D103, MQB1R09, D102, IPM1R09, &
D154A, MBT1R10V, D104, MBT1R10H, D103, &
MQB1R10, D102, IPM1R10, D155A, MA11R04, &
D156, MAQ1R06)
USE, ARCI
460 DIMAT

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1

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*****
* DIMAD PROGRAM : LAST MODIFIED ON May 27, 2005 *
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1
 CONVERTED FROM ../../OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//ARCI.OPT

TOTAL LENGTH OF MACHINE IS: 409.125 METERS

IN THIS RUN THERE ARE :

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279 DISTINCT ELEMENTS. ALLOCATED MXELMD : 280
453 ELEMENTS IN MACHINE. ALLOCATED MXPOS_D : 455
84 MATRICES DEFINED. ALLOCATED MAXMAT : 85
1770 VALUES IN ELDAT. ALLOCATED MAXDAT : 1770
0 LCAVs. ALLOCATED MX_LCAV : 1

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1
 OPERATION LIST ,
 MACHINE

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1 2 1 0 1 1 1
6.1337 -0.087078 -7.80334e-06 -3.34283e-06
26.5573 -1.85223 0 0
0,

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ELEMENT	#	BETAX	ALPHAX	BETAY	ALPHAY	ETAX	ETAPX	ETAY	ETAPY	NUX	NUY	ACC.LEN
\$\$INITIAL\$\$	0	6.1337	-0.0871	26.5573	-1.8522	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.000
MAQ1S01	1	6.6450	0.2879	26.9490	-1.4021	0.0000	0.0000	0.1633	0.3349	0.02557	0.00593	1.018
D100	2	6.4548	-0.2278	36.9268	-1.7505	0.0000	0.0000	1.2233	0.3349	0.10585	0.02192	4.183
MA11S03	3	6.4276	0.2536	40.3457	-1.7097	0.0000	0.0000	1.3900	0.0029	0.13078	0.02599	5.187
D101A	4	6.1874	0.1566	42.3814	-1.7666	0.0000	0.0000	1.3916	0.0029	0.14558	0.02824	5.773
IPM1S01	5	6.1874	0.1566	42.3814	-1.7666	0.0000	0.0000	1.3916	0.0029	0.14558	0.02824	5.773
D102	6	6.1084	0.1070	43.4489	-1.7958	0.0000	0.0000	1.3925	0.0029	0.15334	0.02936	6.072
MQB1S01	7	6.2508	-1.0655	42.7831	6.1932	0.0000	0.0000	1.3736	-0.2541	0.15722	0.02991	6.222
D103	8	6.8468	-1.1571	39.5278	5.9466	0.0000	0.0000	1.3055	-0.2541	0.16375	0.03094	6.490
MBT1S01H	9	6.8468	-1.1571	39.5278	5.9466	0.0000	0.0000	1.3055	-0.2541	0.16375	0.03094	6.490
D104	10	7.3137	-1.2241	37.2310	5.7662	0.0000	0.0000	1.2557	-0.2541	0.16816	0.03176	6.687
MBT1S01V	11	7.3137	-1.2241	37.2310	5.7662	0.0000	0.0000	1.2557	-0.2541	0.16816	0.03176	6.687
D105	12	8.6385	-1.3968	31.6369	5.3012	0.0000	0.0000	1.1272	-0.2541	0.17829	0.03410	7.192
ITV1S01	13	8.6385	-1.3968	31.6369	5.3012	0.0000	0.0000	1.1272	-0.2541	0.17829	0.03410	7.192
D106A	14	25.9486	-2.8043	3.5685	1.5109	0.0000	0.0000	0.0803	-0.2541	0.22266	0.09748	11.312
IPM1S02	15	25.9486	-2.8043	3.5685	1.5109	0.0000	0.0000	0.0803	-0.2541	0.22266	0.09748	11.312
D102	16	27.6599	-2.9067	2.7456	1.2352	0.0000	0.0000	0.0042	-0.2541	0.22444	0.11274	11.612
MQB1S02	17	27.4329	4.4005	2.4966	0.4468	0.0000	0.0000	-0.0341	-0.2580	0.22530	0.12193	11.762
D103	18	25.1263	4.2014	2.2916	0.3179	0.0000	0.0000	-0.1033	-0.2580	0.22693	0.13981	12.030
MBT1S02H	19	25.1263	4.2014	2.2916	0.3179	0.0000	0.0000	-0.1033	-0.2580	0.22693	0.13981	12.030
D104	20	23.5071	4.0558	2.1854	0.2237	0.0000	0.0000	-0.1539	-0.2580	0.22821	0.15377	12.226
MBT1S02V	21	23.5071	4.0558	2.1854	0.2237	0.0000	0.0000	-0.1539	-0.2580	0.22821	0.15377	12.226
D107	22	12.5086	2.8784	2.6845	-0.5384	0.0000	0.0000	-0.5631	-0.2580	0.24295	0.26740	13.812
IPM1S03	23	12.5086	2.8784	2.6845	-0.5384	0.0000	0.0000	-0.5631	-0.2580	0.24295	0.26740	13.812
D102	24	10.8502	2.6560	3.0503	-0.6824	0.0000	0.0000	-0.6404	-0.2580	0.24705	0.28410	14.112
MQB1S03	25	10.6605	-1.3675	3.0901	0.4220	0.0000	0.0000	-0.6609	-0.0135	0.24929	0.29181	14.262
D108	26	12.4750	-1.5358	2.7115	0.1837	0.0000	0.0000	-0.6693	-0.0135	0.25792	0.32644	14.887
MBT1S10	27	12.4750	-1.5358	2.7115	0.1837	0.0000	0.0000	-0.6693	-0.0135	0.25792	0.32644	14.887
MA11S04	28	14.6809	-0.5599	2.6652	-0.1371	0.0000	0.0000	-0.5126	0.3308	0.26979	0.38603	15.892
D109	29	15.9635	-0.6544	3.3813	-0.5409	0.0000	0.0000	-0.1632	0.3308	0.28078	0.44325	16.948

IPMAILS0	30	15.9635	-0.6544	3.3813	-0.5409	0.0000	0.0000	-0.1632	0.3308	0.28078	0.44325	16.948
MAILS06	31	15.6965	0.9064	4.8103	-0.9064	0.0000	0.0000	0.0000	0.0000	0.29089	0.48257	17.952
D110	32	14.4433	0.8222	6.3237	-1.1810	0.0000	0.0000	0.0000	0.0000	0.29855	0.50355	18.677
MQBLS04	33	15.2821	-6.5513	6.2127	1.9027	0.0000	0.0000	0.0000	0.0000	0.30018	0.50731	18.827
D111	34	30.6901	-9.3382	3.2219	1.1816	0.0000	0.0000	0.0000	0.0000	0.30731	0.54209	19.797
ITVLS04	35	30.6901	-9.3382	3.2219	1.1816	0.0000	0.0000	0.0000	0.0000	0.30731	0.54209	19.797
D112	36	42.5035	-11.0069	2.1005	0.7497	0.0000	0.0000	0.0000	0.0000	0.30987	0.57791	20.378
IPMLS05	37	42.5035	-11.0069	2.1005	0.7497	0.0000	0.0000	0.0000	0.0000	0.30987	0.57791	20.378
D102	38	49.3580	-11.8681	1.7179	0.5269	0.0000	0.0000	0.0000	0.0000	0.31091	0.60312	20.677
MQBLS05	39	50.0659	7.2394	1.6714	-0.2106	0.0000	0.0000	0.0000	0.0000	0.31138	0.61737	20.827
D103	40	46.2601	6.9533	1.8293	-0.3782	0.0000	0.0000	0.0000	0.0000	0.31227	0.64187	21.095
MBT1S05H	41	46.2601	6.9533	1.8293	-0.3782	0.0000	0.0000	0.0000	0.0000	0.31227	0.64187	21.095
D104	42	43.5742	6.7441	2.0016	-0.5007	0.0000	0.0000	0.0000	0.0000	0.31297	0.65821	21.292
MBT1S05V	43	43.5742	6.7441	2.0016	-0.5007	0.0000	0.0000	0.0000	0.0000	0.31297	0.65821	21.292
D113	44	26.9312	5.2659	4.5892	-1.3666	0.0000	0.0000	0.0000	0.0000	0.31941	0.73379	22.677
MQBLS06	45	25.5902	3.6987	4.9731	-1.1855	0.0000	0.0000	0.0000	0.0000	0.32032	0.73878	22.827
D114	46	6.5578	1.6620	19.4880	-2.9028	0.0000	0.0000	0.0000	0.0000	0.36450	0.79750	26.378
IPMLS07	47	6.5578	1.6620	19.4880	-2.9028	0.0000	0.0000	0.0000	0.0000	0.36450	0.79750	26.378
D102	48	5.6133	1.4901	21.2711	-3.0477	0.0000	0.0000	0.0000	0.0000	0.37236	0.79984	26.677
MQBLS07	49	5.3834	0.0624	21.3776	2.3470	0.0000	0.0000	0.0000	0.0000	0.37674	0.80095	26.827
D115	50	5.3656	-0.0242	19.2641	2.2056	0.0000	0.0000	0.0000	0.0000	0.39050	0.80459	27.292
MBT1S07V	51	5.3656	-0.0242	19.2641	2.2056	0.0000	0.0000	0.0000	0.0000	0.39050	0.80459	27.292
D116	52	10.4354	-0.9726	4.7033	0.6572	0.0000	0.0000	0.0000	0.0000	0.50945	0.89431	32.378
IPMLS08	53	10.4354	-0.9726	4.7033	0.6572	0.0000	0.0000	0.0000	0.0000	0.50945	0.89431	32.378
D102	54	11.0351	-1.0285	4.3368	0.5660	0.0000	0.0000	0.0000	0.0000	0.51389	0.90488	32.677
MQBLS08	55	11.0288	1.0702	4.2961	-0.2921	0.0000	0.0000	0.0000	0.0000	0.51604	0.91044	32.827
D103	56	10.4688	1.0180	4.4709	-0.3598	0.0000	0.0000	0.0000	0.0000	0.52002	0.92018	33.095
MAZ1S08H	57	10.4688	1.0180	4.4709	-0.3598	0.0000	0.0000	0.0000	0.0000	0.52002	0.92018	33.095
D104	58	10.0771	0.9799	4.6218	-0.4094	0.0000	0.0000	0.0000	0.0000	0.52306	0.92705	33.292
MBT1S08H	59	10.0771	0.9799	4.6218	-0.4094	0.0000	0.0000	0.0000	0.0000	0.52306	0.92705	33.292
MBT1S08V	60	10.0771	0.9799	4.6218	-0.4094	0.0000	0.0000	0.0000	0.0000	0.52306	0.92705	33.292
D117	61	5.2058	0.1122	13.3010	-1.5363	0.0000	0.0000	0.0000	0.0000	0.62866	1.02337	37.752
MAZ1S09V	62	5.2058	0.1122	13.3010	-1.5363	0.0000	0.0000	0.0000	0.0000	0.62866	1.02337	37.752
D118	63	5.1415	-0.0095	15.3212	-1.6943	0.0000	0.0000	0.0000	0.0000	0.64794	1.03035	38.378
IPMLS09	64	5.1415	-0.0095	15.3212	-1.6943	0.0000	0.0000	0.0000	0.0000	0.64794	1.03035	38.378
D102	65	5.1647	-0.0677	16.3592	-1.7700	0.0000	0.0000	0.0000	0.0000	0.65720	1.03336	38.677
MQBLS09	66	5.3517	-1.1918	16.3828	1.6143	0.0000	0.0000	0.0000	0.0000	0.66177	1.03481	38.827
D115	67	6.5557	-1.4017	14.9314	1.5121	0.0000	0.0000	0.0000	0.0000	0.67425	1.03953	39.292
MBT1S09V	68	6.5557	-1.4017	14.9314	1.5121	0.0000	0.0000	0.0000	0.0000	0.67425	1.03953	39.292
D116	69	32.5136	-3.7020	5.2435	0.3926	0.0000	0.0000	0.0000	0.0000	0.73089	1.13700	44.378
IPMLS10	70	32.5136	-3.7020	5.2435	0.3926	0.0000	0.0000	0.0000	0.0000	0.73089	1.13700	44.378
D102	71	34.7728	-3.8375	5.0279	0.3267	0.0000	0.0000	0.0000	0.0000	0.73230	1.14629	44.677
MQBLS10	72	35.1968	1.0304	5.0393	-0.4031	0.0000	0.0000	0.0000	0.0000	0.73298	1.15105	44.827
D103	73	34.6484	1.0147	5.2721	-0.4649	0.0000	0.0000	0.0000	0.0000	0.73421	1.15933	45.095
MBT1S10H	74	34.6484	1.0147	5.2721	-0.4649	0.0000	0.0000	0.0000	0.0000	0.73421	1.15933	45.095
D104	75	34.2527	1.0032	5.4633	-0.5102	0.0000	0.0000	0.0000	0.0000	0.73511	1.16515	45.292
MBT1S10V	76	34.2527	1.0032	5.4633	-0.5102	0.0000	0.0000	0.0000	0.0000	0.73511	1.16515	45.292
D119	77	17.4718	0.1532	68.8426	-3.8576	0.0000	0.0000	0.0000	0.0000	0.83617	1.29970	59.802
MAZ1E01H	78	17.4718	0.1532	68.8426	-3.8576	0.0000	0.0000	0.0000	0.0000	0.83617	1.29970	59.802
D120	79	17.3333	0.1239	72.7578	-3.9729	0.0000	0.0000	0.0000	0.0000	0.84075	1.30082	60.302
MAZ1E01V	80	17.3333	0.1239	72.7578	-3.9729	0.0000	0.0000	0.0000	0.0000	0.84075	1.30082	60.302
D118	81	17.2012	0.0873	77.8169	-4.1172	0.0000	0.0000	0.0000	0.0000	0.84651	1.30215	60.928
IPMLE01	82	17.2012	0.0873	77.8169	-4.1172	0.0000	0.0000	0.0000	0.0000	0.84651	1.30215	60.928
D102	83	17.1541	0.0697	80.3050	-4.1863	0.0000	0.0000	0.0000	0.0000	0.84929	1.30275	61.227
MQBLE01	84	17.3137	-1.1374	80.7237	1.4051	0.0000	0.0000	0.0000	0.0000	0.85068	1.30304	61.377
D103	85	17.9332	-1.1729	79.9727	1.3953	0.0000	0.0000	0.0000	0.0000	0.85310	1.30358	61.646
MBTLE01H	86	17.9332	-1.1729	79.9727	1.3953	0.0000	0.0000	0.0000	0.0000	0.85310	1.30358	61.646
D104	87	18.3983	-1.1989	79.4270	1.3880	0.0000	0.0000	0.0000	0.0000	0.85482	1.30397	61.842
MBTLE01V	88	18.3983	-1.1989	79.4270	1.3880	0.0000	0.0000	0.0000	0.0000	0.85482	1.30397	61.842
D105	89	19.6441	-1.2658	78.0332	1.3694	0.0000	0.0000	0.0000	0.0000	0.85905	1.30499	62.347
IHALE01	90	19.6441	-1.2658	78.0332	1.3694	0.0000	0.0000	0.0000	0.0000	0.85905	1.30499	62.347
D121	91	20.8906	-1.3295	76.7262	1.3517	0.0000	0.0000	0.0000	0.0000	0.86282	1.30598	62.827
MBWLE01	92	22.2178	-1.3957	75.3834	1.5810	-0.0101	-0.0406	0.0000	0.0000	0.86652	1.30702	63.328
D122	93	42.6764	-2.1594	58.7241	1.3139	-0.2435	-0.0406	0.0000	0.0000	0.89644	1.32081	69.082
MBXLE02	94	47.1240	-2.2919	55.7653	1.6344	-0.2435	0.0406	0.0000	0.0000	0.89998	1.32359	70.082
D122	95	77.8972	-3.0555	39.1344	1.2556	-0.0101	0.0406	0.0000	0.0000	0.91512	1.34324	75.837
MBWLE03	96	81.1166	-3.1218	37.7685	1.3469	0.0000	0.0000	0.0000	0.0000	0.91612	1.34531	76.337
D123	97	84.4310	-3.1914	36.3747	1.3078	0.0000	0.0000	0.0000	0.0000	0.91713	1.34757	76.862
D118	98	88.4743	-3.2742	34.7682	1.2612	0.0000	0.0000	0.0000	0.0000	0.91828	1.35037	77.488
IPMLE02	99	88.4743	-3.2742	34.7682	1.2612	0.0000	0.0000	0.0000	0.0000	0.91828	1.35037	77.488
D102	100	90.4484	-3.3139	34.0191	1.2389	0.0000	0.0000	0.0000	0.0000	0.91882	1.35175	77.787
MQBLE02	101	90.4593	3.2418	34.0174	-1.2272	0.0000	0.0000	0.0000	0.0000	0.91908	1.35246	77.937
D103	102	88.7298	3.2077	34.6808	-1.2470	0.0000	0.0000	0.0000	0.0000	0.91956	1.35370	78.206
MBTLE02H	103	88.7298	3.2077	34.6808	-1.2470	0.0000	0.0000	0.0000	0.0000	0.91956	1.35370	78.206
D104	104	87.4767	3.1828	35.1727	-1.2614	0.0000	0.0000	0.0000	0.0000	0.91991	1.35459	78.402
MBTLE02V	105	87.4767	3.1828	35.1727	-1.2614	0.0000	0.0000	0.0000	0.0000	0.91991	1.35459	78.402
D124	106	19.0519	1.1933	92.6320	-2.4134	0.0000	0.0000	0.0000	0.0000	0.98247	1.39876	94.038
IPMLE03	107	19.0519	1.1933	92.6320	-2.4134	0.0000	0.0000	0.0000	0.0000	0.98247	1.39876	94.038
D102	108	18.3482	1.1552	94.0849	-2.4354	0.0000	0.0000	0.0000	0.0000	0.98502	1.39927	94.337
MQBLE03	109	18.2241	-0.3247	93.6801	5.1237	0.0000	0.0000	0.0000	0.0000	0.98633	1.39952	94.487
D103	110	18.4026	-0.3409	90.9531	5.0457	0.0000	0.0000	0.0000	0.0000	0.98866	1.39998	94.755
MBTLE03H	111	18.4026	-0.3409	90.9531	5.0457	0.0000	0.0000	0.0000	0.0000	0.98866	1.39998	94.755
D104	112	18.5386	-0.3528	88.9855	4.9887	0.0000	0.0000	0.0000	0.0000	0.99035	1.40033	94.952
MBTLE03V	113	18.5386	-0.3528	88.9855	4.9887	0.0000	0.0000	0.0000	0.0000	0.99035	1.40033	94.952
D124A	114	19.0635	-0									

D115	134	6.2900	-1.9014	25.2119	3.0310	1.4156	0.3999	0.0000	0.0000	1.40668	1.76350	123.683
MBTLA03V	135	6.2900	-1.9014	25.2119	3.0310	1.4156	0.3999	0.0000	0.0000	1.40668	1.76350	123.683
D128	136	19.5038	-3.6485	13.0695	2.0690	2.3676	0.3999	0.0000	0.0000	1.44117	1.78444	126.064
D159	137	20.6148	-3.7585	12.4579	2.0084	2.4276	0.3999	0.0000	0.0000	1.44236	1.78631	126.214
D129	138	22.2416	-3.9141	11.6245	1.9227	2.5124	0.3999	0.0000	0.0000	1.44393	1.78911	126.426
IPMLA04	139	22.2416	-3.9141	11.6245	1.9227	2.5124	0.3999	0.0000	0.0000	1.44393	1.78911	126.426
D102	140	24.6532	-4.1340	10.5085	1.8016	2.6322	0.3999	0.0000	0.0000	1.44597	1.79343	126.725
MQBLA04	141	24.7169	3.7161	10.4676	-1.5247	2.6294	-0.4374	0.0000	0.0000	1.44693	1.79572	126.875
D103	142	22.7671	3.5554	11.3081	-1.6098	2.5121	-0.4374	0.0000	0.0000	1.44873	1.79965	127.144
MBTLA04H	143	22.7671	3.5554	11.3081	-1.6098	2.5121	-0.4374	0.0000	0.0000	1.44873	1.79965	127.144
D130	144	18.0734	3.1351	13.7231	-1.8326	2.2052	-0.4374	0.0000	0.0000	1.45423	1.80862	127.845
ITVLA04	145	18.0734	3.1351	13.7231	-1.8326	2.2052	-0.4374	0.0000	0.0000	1.45423	1.80862	127.845
IHALA04	146	18.0734	3.1351	13.7231	-1.8326	2.2052	-0.4374	0.0000	0.0000	1.45423	1.80862	127.845
D131	147	8.4215	2.0114	21.7142	-2.4283	1.3848	-0.4374	0.0000	0.0000	1.47852	1.82594	129.721
D159	148	7.8316	1.9215	22.4499	-2.4759	1.3192	-0.4374	0.0000	0.0000	1.48146	1.82702	129.871
D129	149	7.0437	1.7945	23.5140	-2.5433	1.2265	-0.4374	0.0000	0.0000	1.48600	1.82849	130.083
IPMLA05	150	7.0437	1.7945	23.5140	-2.5433	1.2265	-0.4374	0.0000	0.0000	1.48600	1.82849	130.083
D102	151	6.0221	1.6150	25.0667	-2.6384	1.0954	-0.4374	0.0000	0.0000	1.49333	1.83045	130.382
MQBLA05	152	5.6602	0.8124	25.3815	0.5530	1.0400	-0.3022	0.0000	0.0000	1.49743	1.83140	130.532
D115	153	4.9692	0.6762	24.8792	0.5291	0.8997	-0.3022	0.0000	0.0000	1.51138	1.83434	130.997
MBTLA05V	154	4.9692	0.6762	24.8792	0.5291	0.8997	-0.3022	0.0000	0.0000	1.51138	1.83434	130.997
D132	155	5.6193	-0.8049	20.8471	0.2693	-0.6268	-0.3022	0.0000	0.0000	1.71388	1.86993	136.047
MBELA02	156	7.5468	-1.1352	19.4884	1.0593	-0.8314	-0.1091	0.0000	0.0000	1.73832	1.87784	137.049
D127	157	27.6364	-2.7169	11.4010	0.4914	-1.4005	-0.1091	0.0000	0.0000	1.79712	1.93472	142.264
IPMLA06	158	27.6364	-2.7169	11.4010	0.4914	-1.4005	-0.1091	0.0000	0.0000	1.79712	1.93472	142.264
D102	159	29.2919	-2.8078	11.1162	0.4588	-1.4332	-0.1091	0.0000	0.0000	1.79880	1.93896	142.564
MQBLA06	160	29.5900	0.8323	11.1870	-0.9338	-1.4362	0.0688	0.0000	0.0000	1.79960	1.94111	142.714
D103	161	29.1478	0.8170	11.6999	-0.9787	-1.4178	0.0688	0.0000	0.0000	1.80106	1.94484	142.982
MBTLA06H	162	29.1478	0.8170	11.6999	-0.9787	-1.4178	0.0688	0.0000	0.0000	1.80106	1.94484	142.982
D130	163	28.0297	0.7768	13.1554	-1.0961	-1.3695	0.0688	0.0000	0.0000	1.80496	1.95384	143.683
IHALA06	164	28.0297	0.7768	13.1554	-1.0961	-1.3695	0.0688	0.0000	0.0000	1.80496	1.95384	143.683
D133	165	22.1499	0.5168	26.5756	-1.8566	-1.0570	0.0688	0.0000	0.0000	1.83416	1.99292	148.228
MBELA03	166	21.2887	0.3501	29.2543	-0.7628	-0.8931	0.2606	0.0000	0.0000	1.84146	1.99864	149.230
D127	167	19.0713	0.0751	38.6809	-1.0448	0.4660	0.2606	0.0000	0.0000	1.88313	2.02341	154.445
IPMLA07	168	19.0713	0.0751	38.6809	-1.0448	0.4660	0.2606	0.0000	0.0000	1.88313	2.02341	154.445
D102	169	19.0310	0.0593	39.3119	-1.0610	0.5441	0.2606	0.0000	0.0000	1.88563	2.02463	154.745
MQBLA07	170	19.3801	-2.4017	38.8810	3.9155	0.5886	0.3326	0.0000	0.0000	1.88688	2.02524	154.895
D115	171	21.6853	-2.5638	35.3360	3.7205	0.7430	0.3326	0.0000	0.0000	1.89049	2.02724	155.359
MBTLA07V	172	21.6853	-2.5638	35.3360	3.7205	0.7430	0.3326	0.0000	0.0000	1.89049	2.02724	155.359
D134	173	38.3776	-3.5217	18.0860	2.5684	1.6554	0.3326	0.0000	0.0000	1.90564	2.04454	158.102
IPMLA08	174	38.3776	-3.5217	18.0860	2.5684	1.6554	0.3326	0.0000	0.0000	1.90564	2.04454	158.102
D102	175	40.5195	-3.6264	16.5845	2.4425	1.7551	0.3326	0.0000	0.0000	1.90685	2.04729	158.402
MQBLA08	176	40.1944	5.7684	16.4288	-1.3927	1.7742	-0.0785	0.0000	0.0000	1.90744	2.04875	158.552
D103	177	37.1622	5.5397	17.1886	-1.4407	1.7532	-0.0785	0.0000	0.0000	1.90854	2.05129	158.820
MBTLA08H	178	37.1622	5.5397	17.1886	-1.4407	1.7532	-0.0785	0.0000	0.0000	1.90854	2.05129	158.820
D135	179	11.9649	3.0336	27.2026	-1.9666	1.5224	-0.0785	0.0000	0.0000	1.93080	2.07299	161.759
IPMLA09	180	11.9649	3.0336	27.2026	-1.9666	1.5224	-0.0785	0.0000	0.0000	1.93080	2.07299	161.759
D102	181	10.2235	2.7781	28.3972	-2.0202	1.4989	-0.0785	0.0000	0.0000	1.93511	2.07470	162.059
MQBLA09	182	9.5751	1.5689	28.5191	1.2122	1.4999	0.0916	0.0000	0.0000	1.93753	2.07554	162.209
D115	183	8.1963	1.4011	27.4122	1.1720	1.5425	0.0916	0.0000	0.0000	1.94587	2.07818	162.673
MBTLA09V	184	8.1963	1.4011	27.4122	1.1720	1.5425	0.0916	0.0000	0.0000	1.94587	2.07818	162.673
D136	185	3.2652	-0.4248	17.7820	0.7347	2.0053	0.0916	0.0000	0.0000	2.16115	2.11491	167.723
MBELA04	186	4.4891	-0.8071	15.6767	1.3240	2.1998	0.2994	0.0000	0.0000	2.20303	2.12446	168.725
D137	187	10.4240	-1.6837	10.3641	0.9056	2.9133	0.2994	0.0000	0.0000	2.25966	2.15439	171.108
IPMLA10	188	10.4240	-1.6837	10.3641	0.9056	2.9133	0.2994	0.0000	0.0000	2.25966	2.15439	171.108
D102	189	11.4661	-1.7939	9.8371	0.8529	3.0030	0.2994	0.0000	0.0000	2.26402	2.15911	171.407
D159	190	12.0125	-1.8491	9.5852	0.8266	3.0479	0.2994	0.0000	0.0000	2.26606	2.16157	171.557
D138	191	22.9130	-2.7256	6.6430	0.4082	3.7613	0.2994	0.0000	0.0000	2.28899	2.20983	173.940
IPMLA11	192	22.9130	-2.7256	6.6430	0.4082	3.7613	0.2994	0.0000	0.0000	2.28899	2.20983	173.940
D102	193	24.5795	-2.8359	6.4142	0.3555	3.8510	0.2994	0.0000	0.0000	2.29100	2.21714	174.240
MQBLA11	194	24.7545	1.6802	6.4872	-0.8469	3.8430	-0.4062	0.0000	0.0000	2.29197	2.22086	174.390
D103	195	23.8645	1.6387	6.9605	-0.9179	3.7341	-0.4062	0.0000	0.0000	2.29372	2.22721	174.658
MBTLA11H	196	23.8645	1.6387	6.9605	-0.9179	3.7341	-0.4062	0.0000	0.0000	2.29372	2.22721	174.658
D130	197	21.6412	1.5304	8.3787	-1.1036	3.4492	-0.4062	0.0000	0.0000	2.29864	2.24185	175.360
ITVLA11	198	21.6412	1.5304	8.3787	-1.1036	3.4492	-0.4062	0.0000	0.0000	2.29864	2.24185	175.360
IHALA11	199	21.6412	1.5304	8.3787	-1.1036	3.4492	-0.4062	0.0000	0.0000	2.29864	2.24185	175.360
D125	200	16.8520	1.2659	12.9355	-1.5570	2.7535	-0.4062	0.0000	0.0000	2.31293	2.26815	177.072
D159	201	16.4757	1.2427	13.4086	-1.5967	2.6926	-0.4062	0.0000	0.0000	2.31436	2.26997	177.222
D126	202	10.9198	0.8285	23.8793	-2.3068	1.6031	-0.4062	0.0000	0.0000	2.34641	2.29392	179.905
MBELA05	203	9.4747	0.6261	27.6514	-1.3818	1.3007	-0.2018	0.0000	0.0000	2.36202	2.30012	180.906
D127	204	6.9398	-0.1401	44.9262	-1.9306	0.2484	-0.2018	0.0000	0.0000	2.47320	2.32375	186.121
D102	205	7.0370	-0.1841	46.0926	-1.9621	0.1880	-0.2018	0.0000	0.0000	2.48003	2.32480	186.421
MQBLA13	206	7.2393	-1.1739	45.7514	4.2216	0.1595	-0.1784	0.0000	0.0000	2.48339	2.32532	186.571
D115	207	8.4000	-1.3264	41.9204	4.0306	0.0767	-0.1784	0.0000	0.0000	2.49287	2.32701	187.035
MBTLA13V	208	8.4000	-1.3264	41.9204	4.0306	0.0767	-0.1784	0.0000	0.0000	2.49287	2.32701	187.035
D128	209	16.5779	-2.1084	25.0596	3.0511	-0.3481	-0.1784	0.0000	0.0000	2.52520	2.33871	189.416
D159	210	17.2178	-2.1577	24.1535	2.9894	-0.3749	-0.1784	0.0000	0.0000	2.52661	2.33968	189.566
D129	211	18.1475	-2.2273	22.9044	2.9022	-0.4127	-0.1784	0.0000	0.0000	2.52852	2.34111	189.778
IPMLA14	212	18.1475	-2.2273	22.9044	2.9022	-0.4127	-0.1784	0.0000	0.0000	2.52852	2.34111	189.778
D102	213	19.5119	-2.3258	21.2020	2.7789	-0.4662	-0.1784	0.0000	0.0000	2.53106	2.34328	190.078
MQBLA14	214	19.5964	1.7682	21.0326	-1.6375	-0.4855	-0.0786	0.0000	0.0000	2.53227	2.34441	190.228
D103	215	18.6632	1.7117	21.9234	-1.6845	-0.5066	-0.0786	0.0000	0.0000	2.53450	2.34640	190.496
MBTLA14H	216	18.6632	1.7117	21.9234	-1.6845	-0.5066	-0.0786	0.0000	0.0000	2.53450	2.34640	190.496
D130	217	16.3651	1.5640									

MQB1A17	238	18.0790	-2.5220	41.6808	3.8977	1.3894	0.5578	0.0000	0.0000	2.78373	2.75151	218.247
D115	239	20.5084	-2.7110	38.1455	3.7174	1.6483	0.5578	0.0000	0.0000	2.78756	2.75337	218.712
MBT1A17V	240	20.5084	-2.7110	38.1455	3.7174	1.6483	0.5578	0.0000	0.0000	2.78756	2.75337	218.712
D134	241	38.4435	-3.8277	20.6753	2.6518	3.1782	0.5578	0.0000	0.0000	2.80314	2.76894	221.455
IPM1A18	242	38.4435	-3.8277	20.6753	2.6518	3.1782	0.5578	0.0000	0.0000	2.80314	2.76894	221.455
D102	243	40.7740	-3.9497	19.1210	2.5354	3.3454	0.5578	0.0000	0.0000	2.80434	2.77134	221.754
MQB1A18	244	40.7314	4.2308	18.9342	-1.2777	3.3785	-0.1174	0.0000	0.0000	2.80492	2.77260	221.904
D103	245	38.4958	4.1064	19.6294	-1.3150	3.3470	-0.1174	0.0000	0.0000	2.80600	2.77481	222.172
MBT1A18H	246	38.4958	4.1064	19.6294	-1.3150	3.3470	-0.1174	0.0000	0.0000	2.80600	2.77481	222.172
D130	247	32.9625	3.7809	21.5429	-1.4126	3.2646	-0.1174	0.0000	0.0000	2.80914	2.78024	222.874
IHALA18	248	32.9625	3.7809	21.5429	-1.4126	3.2646	-0.1174	0.0000	0.0000	2.80914	2.78024	222.874
D158	249	18.3664	2.7427	28.5601	-1.7237	3.0020	-0.1174	0.0000	0.0000	2.82363	2.79462	225.111
IPM1A19	250	18.3664	2.7427	28.5601	-1.7237	3.0020	-0.1174	0.0000	0.0000	2.82363	2.79462	225.111
D102	251	16.7644	2.6036	29.6056	-1.7653	2.9668	-0.1174	0.0000	0.0000	2.82635	2.79626	225.411
MQB1A19	252	16.2093	1.1135	29.7444	0.8440	2.9687	0.1436	0.0000	0.0000	2.82780	2.79706	225.561
D115	253	15.2052	1.0493	28.9731	0.8173	3.0354	0.1436	0.0000	0.0000	2.83251	2.79958	226.025
MBT1A19V	254	15.2052	1.0493	28.9731	0.8173	3.0354	0.1436	0.0000	0.0000	2.83251	2.79958	226.025
D136	255	8.1305	0.3514	22.1858	0.5266	3.7606	0.1436	0.0000	0.0000	2.90755	2.83150	231.077
MBE1A08	256	7.6076	0.1749	20.2726	1.3443	4.0114	0.3606	0.0000	0.0000	2.92776	2.83901	232.076
D142	257	7.6442	-0.1885	14.0571	0.9728	4.9786	0.3606	0.0000	0.0000	2.98497	2.86441	234.760
D159	258	7.7038	-0.2088	13.7684	0.9521	5.0327	0.3606	0.0000	0.0000	2.98808	2.86612	234.910
D138	259	9.4681	-0.5316	10.0174	0.6221	5.8919	0.3606	0.0000	0.0000	3.03308	2.89864	237.293
IPM1A21	260	9.4681	-0.5316	10.0174	0.6221	5.8919	0.3606	0.0000	0.0000	3.03308	2.89864	237.293
D102	261	9.7989	-0.5722	9.6569	0.5807	5.9999	0.3606	0.0000	0.0000	3.03803	2.90349	237.592
MQB1A21	262	9.7961	0.5923	9.6587	-0.5923	5.9999	-0.3606	0.0000	0.0000	3.04046	2.90597	237.742
D103	263	9.4896	0.5532	9.9864	-0.6298	5.9032	-0.3606	0.0000	0.0000	3.04489	2.91031	238.010
MBT1A21H	264	9.4896	0.5532	9.9864	-0.6298	5.9032	-0.3606	0.0000	0.0000	3.04489	2.91031	238.010
D130	265	8.7811	0.4567	10.9388	-0.7279	5.6503	-0.3606	0.0000	0.0000	3.05713	2.92101	238.712
ITV1A21	266	8.7811	0.4567	10.9388	-0.7279	5.6503	-0.3606	0.0000	0.0000	3.05713	2.92101	238.712
IHALA21	267	8.7811	0.4567	10.9388	-0.7279	5.6503	-0.3606	0.0000	0.0000	3.05713	2.92101	238.712
D125	268	7.6205	0.2209	13.8424	-0.9674	5.0327	-0.3606	0.0000	0.0000	3.09070	2.94323	240.425
D159	269	7.5573	0.2003	14.1357	-0.9884	4.9786	-0.3606	0.0000	0.0000	3.09385	2.94494	240.575
D126	270	7.4730	-0.1689	20.4445	-1.3635	4.0114	-0.3606	0.0000	0.0000	3.15194	2.97016	243.257
MBE1A09	271	7.9854	-0.3468	22.3895	-0.5384	3.7606	-0.1436	0.0000	0.0000	3.17252	2.97760	244.254
D127	272	15.4188	-1.0785	29.5722	-0.8389	3.0118	-0.1436	0.0000	0.0000	3.25039	3.01008	249.479
D102	273	16.0777	-1.1205	30.0801	-0.8561	2.9687	-0.1436	0.0000	0.0000	3.25342	3.01168	249.774
MQB1A23	274	16.6333	-2.5995	29.9405	1.7828	2.9668	0.1174	0.0000	0.0000	3.25488	3.01248	249.924
D115	275	19.1474	-2.8160	28.3152	1.7181	3.0213	0.1174	0.0000	0.0000	3.25902	3.01502	250.388
MBT1A23V	276	19.1474	-2.8160	28.3152	1.7181	3.0213	0.1174	0.0000	0.0000	3.25902	3.01502	250.388
D128	277	35.2003	-3.9264	20.9253	1.3858	3.3008	0.1174	0.0000	0.0000	3.27364	3.03061	252.769
D159	278	36.3887	-3.9963	20.5127	1.3648	3.3184	0.1174	0.0000	0.0000	3.27431	3.03176	252.919
D129	279	38.1042	-4.0952	19.9403	1.3353	3.3433	0.1174	0.0000	0.0000	3.27521	3.03343	253.131
IPM1A24	280	38.1042	-4.0952	19.9403	1.3353	3.3433	0.1174	0.0000	0.0000	3.27521	3.03343	253.131
D102	281	40.6004	-4.2350	19.1526	1.2934	3.3785	0.1174	0.0000	0.0000	3.27643	3.03587	253.430
MQB1A24	282	40.6482	3.9197	19.3412	-2.5634	3.3454	-0.5578	0.0000	0.0000	3.27701	3.03712	253.580
D103	283	38.5750	3.8118	20.7441	-2.6684	3.1958	-0.5578	0.0000	0.0000	3.27809	3.03925	253.849
MBT1A24H	284	38.5750	3.8118	20.7441	-2.6684	3.1958	-0.5578	0.0000	0.0000	3.27809	3.03925	253.849
D130	285	33.4248	3.5293	24.6808	-2.9430	2.8045	-0.5578	0.0000	0.0000	3.28120	3.04418	254.550
IHALA24	286	33.4248	3.5293	24.6808	-2.9430	2.8045	-0.5578	0.0000	0.0000	3.28120	3.04418	254.550
D157	287	21.6027	2.7743	37.0967	-3.6772	1.7584	-0.5578	0.0000	0.0000	3.29232	3.05405	256.426
D159	288	20.7795	2.7139	38.2087	-3.7359	1.6748	-0.5578	0.0000	0.0000	3.29344	3.05469	256.576
D140	289	18.1076	2.5079	42.1343	-3.9362	1.3894	-0.5578	0.0000	0.0000	3.29764	3.05672	257.087
IPM1A25	290	18.1076	2.5079	42.1343	-3.9362	1.3894	-0.5578	0.0000	0.0000	3.29764	3.05672	257.087
MQB1A25	291	17.7660	-0.2133	42.3594	2.4464	1.3212	-0.3536	0.0000	0.0000	3.29898	3.05728	257.237
D115	292	17.9767	-0.2406	40.1236	2.3698	1.1570	-0.3536	0.0000	0.0000	3.30311	3.05907	257.701
MBT1A25V	293	17.9767	-0.2406	40.1236	2.3698	1.1570	-0.3536	0.0000	0.0000	3.30311	3.05907	257.701
D132	294	21.9080	-0.5378	20.3917	1.5370	-0.6289	-0.3536	0.0000	0.0000	3.34407	3.08732	262.752
MBE1A10	295	23.1534	-0.7158	16.6828	2.0898	-0.8846	-0.1606	0.0000	0.0000	3.35111	3.09596	263.754
D127	296	32.3958	-1.0564	3.6359	0.4120	-1.7223	-0.1606	0.0000	0.0000	3.38160	3.21273	268.969
IPM1A26	297	32.3958	-1.0564	3.6359	0.4120	-1.7223	-0.1606	0.0000	0.0000	3.38160	3.21273	268.969
D102	298	33.0348	-1.0760	3.4179	0.3156	-1.7704	-0.1606	0.0000	0.0000	3.38306	3.22628	269.269
MQB1A26	299	32.9396	1.7080	3.3732	-0.0162	-1.7833	-0.1014	0.0000	0.0000	3.38378	3.23333	269.419
D115	300	31.3794	1.6528	3.4521	-0.1539	-1.7881	-0.1014	0.0000	0.0000	3.38608	3.25055	269.883
MBT1A26H	301	31.3794	1.6528	3.4521	-0.1539	-1.7881	-0.1014	0.0000	0.0000	3.38608	3.25055	269.883
D136	302	17.7177	1.0522	12.5704	-1.6515	-1.8405	-0.1014	0.0000	0.0000	3.42044	3.39410	274.933
MBE1A11	303	15.8256	0.8523	15.5699	-1.2815	-1.7576	0.1772	0.0000	0.0000	3.42991	3.40549	275.935
D141	304	9.7427	0.2507	34.8664	-2.2175	-0.7803	0.1772	0.0000	0.0000	3.50315	3.44352	281.450
IPM1A27	305	9.7427	0.2507	34.8664	-2.2175	-0.7803	0.1772	0.0000	0.0000	3.50315	3.44352	281.450
MQB1A27	306	9.8575	-1.0209	34.8609	2.2536	-0.7611	0.0786	0.0000	0.0000	3.50560	3.44421	281.600
D115	307	10.8500	-1.1171	32.8061	2.1727	-0.7246	0.0786	0.0000	0.0000	3.51274	3.44639	282.064
MBT1A27V	308	10.8500	-1.1171	32.8061	2.1727	-0.7246	0.0786	0.0000	0.0000	3.51274	3.44639	282.064
D134	309	18.5367	-1.6853	22.1991	1.6944	-0.5090	0.0786	0.0000	0.0000	3.54372	3.46260	284.807
IPM1A28	310	18.5367	-1.6853	22.1991	1.6944	-0.5090	0.0786	0.0000	0.0000	3.54372	3.46260	284.807
D102	311	19.5653	-1.7474	21.1993	1.6421	-0.4855	0.0786	0.0000	0.0000	3.54623	3.46479	285.107
MQB1A28	312	19.4756	2.3394	21.3726	-2.8096	-0.4661	0.1784	0.0000	0.0000	3.54744	3.46592	285.257
D103	313	18.2449	2.2503	22.9093	-2.9211	-0.4183	0.1784	0.0000	0.0000	3.54971	3.46785	285.525
MBT1A28H	314	18.2449	2.2503	22.9093	-2.9211	-0.4183	0.1784	0.0000	0.0000	3.54971	3.46785	285.525
D135	315	7.8883	1.2735	43.6742	-4.1441	0.1061	0.1784	0.0000	0.0000	3.58910	3.48266	288.464
D102	316	7.1550	1.1739	46.1951	-4.2688	0.1595	0.1784	0.0000	0.0000	3.59545	3.48372	288.763
MQB1A29	317	6.9510	0.1951	46.5416	1.9750	0.1880	0.2018	0.0000	0.0000	3.59884	3.48424	288.913
D143	318	9.3413	-0.6285	27.9606	1.3943	1.3007	0.2018	0.0000	0.0000	3.71881	3.50866	294.428
MBE1A12	319	10.7929	-0.8326	24.1510	2.3309	1.6031	0.4062	0.0000	0.0000	3.73463	3.51479	295.430
D142	320	16.3884	-1.2534	13.5627	1.6164	2.6926	0.4062	0.0000	0.0000	3.76695	3.53847	298.112

D159	342	33.8956	-5.2377	17.7055	1.4715	1.7341	0.0785	0.0000	0.0000	4.17040	3.75477	316.271
D129	343	36.1543	-5.4155	17.0895	1.4336	1.7508	0.0785	0.0000	0.0000	4.17137	3.75671	316.483
IPM1A34	344	36.1543	-5.4155	17.0895	1.4336	1.7508	0.0785	0.0000	0.0000	4.17137	3.75671	316.483
D102	345	39.4752	-5.6669	16.2464	1.3800	1.7743	0.0785	0.0000	0.0000	4.17263	3.75957	316.783
MQB1A34	346	39.7950	3.5597	16.3996	-2.4127	1.7552	-0.3327	0.0000	0.0000	4.17323	3.76104	316.933
D103	347	37.9106	3.4676	17.7234	-2.5242	1.6660	-0.3327	0.0000	0.0000	4.17433	3.76355	317.201
MBT1A34H	348	37.9106	3.4676	17.7234	-2.5242	1.6660	-0.3327	0.0000	0.0000	4.17433	3.76355	317.201
D139	349	22.3203	2.5823	33.4955	-3.5961	0.8087	-0.3327	0.0000	0.0000	4.18845	3.78041	319.778
D159	350	21.5534	2.5307	34.5837	-3.6585	0.7588	-0.3327	0.0000	0.0000	4.18953	3.78111	319.928
D140	351	19.0535	2.3549	38.4365	-3.8713	0.5886	-0.3327	0.0000	0.0000	4.19355	3.78335	320.440
IPM1A35	352	19.0535	2.3549	38.4365	-3.8713	0.5886	-0.3327	0.0000	0.0000	4.19355	3.78335	320.440
MQB1A35	353	18.7122	-0.0648	38.8627	1.0482	0.5442	-0.2606	0.0000	0.0000	4.19482	3.78396	320.590
D115	354	18.7840	-0.0898	37.9011	1.0231	0.4232	-0.2606	0.0000	0.0000	4.19876	3.78589	321.054
MBT1A35V	355	18.7840	-0.0898	37.9011	1.0231	0.4232	-0.2606	0.0000	0.0000	4.19876	3.78589	321.054
D132	356	21.0595	-0.3608	28.9442	0.7503	-0.8931	-0.2606	0.0000	0.0000	4.23963	3.81025	326.105
MBE1A14	357	21.9419	-0.5274	26.3029	1.8325	-1.0570	-0.0688	0.0000	0.0000	4.24700	3.81603	327.106
D127	358	29.0270	-0.8312	11.6958	0.9684	-1.4156	-0.0688	0.0000	0.0000	4.28013	3.86408	332.321
IPM1A36	359	29.0270	-0.8312	11.6958	0.9684	-1.4156	-0.0688	0.0000	0.0000	4.28013	3.86408	332.321
D102	360	29.5304	-0.8486	11.1304	0.9188	-1.4362	-0.0688	0.0000	0.0000	4.28176	3.86826	332.621
MQB1A36	361	29.2382	2.7846	11.0630	-0.4670	-1.4332	0.1091	0.0000	0.0000	4.28257	3.87042	332.771
D103	362	27.7663	2.7043	11.3214	-0.4966	-1.4039	0.1091	0.0000	0.0000	4.28407	3.87423	333.039
MBT1A36H	363	27.7663	2.7043	11.3214	-0.4966	-1.4039	0.1091	0.0000	0.0000	4.28407	3.87423	333.039
D145	364	7.6309	1.1334	19.5631	-1.0743	-0.8314	0.1091	0.0000	0.0000	4.34275	3.93157	338.286
MBE1A15	365	5.7035	0.8065	20.9490	-0.2810	-0.6268	0.3022	0.0000	0.0000	4.36688	3.93944	339.287
D141	366	5.6088	-0.7894	25.6151	-0.5651	1.0400	0.3022	0.0000	0.0000	4.58125	3.97770	344.802
IPM1A37	367	5.6088	-0.7894	25.6151	-0.5651	1.0400	0.3022	0.0000	0.0000	4.58125	3.97770	344.802
MQB1A37	368	5.9626	-1.5839	25.2995	2.6560	1.0953	0.4374	0.0000	0.0000	4.58539	3.97863	344.952
D115	369	7.5600	-1.8571	22.9020	2.5082	1.2984	0.4374	0.0000	0.0000	4.59641	3.98170	345.417
MBT1A37V	370	7.5600	-1.8571	22.9020	2.5082	1.2984	0.4374	0.0000	0.0000	4.59641	3.98170	345.417
D134	371	22.1751	-3.4712	11.5375	1.6350	2.4982	0.4374	0.0000	0.0000	4.63038	4.00869	348.159
IPM1A38	372	22.1751	-3.4712	11.5375	1.6350	2.4982	0.4374	0.0000	0.0000	4.63038	4.00869	348.159
D102	373	24.3082	-3.6475	10.5862	1.5396	2.6293	0.4374	0.0000	0.0000	4.63243	4.01300	348.459
MQB1A38	374	24.2435	4.0722	10.6282	-1.8242	2.6321	-0.3998	0.0000	0.0000	4.63341	4.01527	348.609
D103	375	22.1117	3.8777	11.6358	-1.9334	2.5249	-0.3998	0.0000	0.0000	4.63525	4.01911	348.877
MBT1A38H	376	22.1117	3.8777	11.6358	-1.9334	2.5249	-0.3998	0.0000	0.0000	4.63525	4.01911	348.877
D135	377	5.5831	1.7462	26.5175	-3.1301	1.3498	-0.3998	0.0000	0.0000	4.67786	4.04587	351.816
D102	378	4.6017	1.5289	28.4299	-3.2521	1.2300	-0.3998	0.0000	0.0000	4.68727	4.04760	352.116
MQB1A39	379	4.2689	0.7089	28.6870	1.5524	1.1853	-0.1971	0.0000	0.0000	4.69268	4.04844	352.266
D143	380	7.1547	-1.2322	15.1795	0.8969	0.0981	-0.1971	0.0000	0.0000	4.93233	4.09100	357.781
MBE1A16	381	10.0018	-1.6335	12.8991	1.3331	0.0000	0.0000	0.0000	0.0000	4.95111	4.10239	358.782
D142	382	21.4046	-2.6174	7.2965	0.7556	0.0000	0.0000	0.0000	0.0000	4.98046	4.14698	361.465
MQB1A40	383	21.7549	0.2980	7.2210	-0.2490	0.0000	0.0000	0.0000	0.0000	4.98156	4.15028	361.615
D115	384	21.4890	0.2748	7.4842	-0.3176	0.0000	0.0000	0.0000	0.0000	4.98498	4.16034	362.079
MBT1A40V	385	21.4890	0.2748	7.4842	-0.3176	0.0000	0.0000	0.0000	0.0000	4.98498	4.16034	362.079
D144	386	20.6189	0.1787	9.2443	-0.5998	0.0000	0.0000	0.0000	0.0000	4.99950	4.19738	363.998
IPM1R01	387	20.6189	0.1787	9.2443	-0.5998	0.0000	0.0000	0.0000	0.0000	4.99950	4.19738	363.998
D102	388	20.5163	0.1638	9.6169	-0.6439	0.0000	0.0000	0.0000	0.0000	5.00182	4.20244	364.297
MQB1R01	389	20.2618	1.5273	9.9123	-1.3231	0.0000	0.0000	0.0000	0.0000	5.00299	4.20489	364.447
D103	390	19.4545	1.4832	10.6469	-1.4071	0.0000	0.0000	0.0000	0.0000	5.00514	4.20905	364.715
MBT1R01H	391	19.4545	1.4832	10.6469	-1.4071	0.0000	0.0000	0.0000	0.0000	5.00514	4.20905	364.715
D130	392	17.4545	1.3678	12.7590	-1.6035	0.0000	0.0000	0.0000	0.0000	5.01120	4.21863	365.417
ITV1R01	393	17.4545	1.3678	12.7590	-1.6035	0.0000	0.0000	0.0000	0.0000	5.01120	4.21863	365.417
D146	394	8.3750	0.6144	33.3221	-2.8856	0.0000	0.0000	0.0000	0.0000	5.07304	4.25429	369.998
IPM1R02	395	8.3750	0.6144	33.3221	-2.8856	0.0000	0.0000	0.0000	0.0000	5.07304	4.25429	369.998
D102	396	8.0215	0.5651	35.0766	-2.9695	0.0000	0.0000	0.0000	0.0000	5.07886	4.25568	370.297
MQB1R02	397	8.1607	-1.5048	34.6326	5.8922	0.0000	0.0000	0.0000	0.0000	5.08183	4.25636	370.447
D115	398	9.6442	-1.6905	29.3841	5.4134	0.0000	0.0000	0.0000	0.0000	5.09017	4.25868	370.911
MBT1R02V	399	9.6442	-1.6905	29.3841	5.4134	0.0000	0.0000	0.0000	0.0000	5.09017	4.25868	370.911
D116	400	37.1890	-3.7251	0.9970	0.1679	0.0001	0.0000	0.0000	0.0000	5.13344	4.45313	375.998
IPM1R03	401	37.1890	-3.7251	0.9970	0.1679	0.0001	0.0000	0.0000	0.0000	5.13344	4.45313	375.998
D102	402	39.4574	-3.8450	0.9889	-0.1411	0.0001	0.0000	0.0000	0.0000	5.13469	4.50192	376.297
MQB1R03	403	39.0060	6.8135	1.0967	-0.5870	0.0001	0.0000	0.0000	0.0000	5.13529	4.52508	376.447
D103	404	35.4394	6.4874	1.4997	-0.9159	0.0001	0.0000	0.0000	0.0000	5.13644	4.55860	376.715
MBT1R03H	405	35.4394	6.4874	1.4997	-0.9159	0.0001	0.0000	0.0000	0.0000	5.13644	4.55860	376.715
D147	406	0.8260	0.0654	45.3851	-7.3923	0.0000	0.0000	0.0000	0.0000	5.35171	4.66919	381.998
IPM1R04	407	0.8260	0.0654	45.3851	-7.3923	0.0000	0.0000	0.0000	0.0000	5.35171	4.66919	381.998
D102	408	0.8960	-0.2989	49.9254	-7.7597	0.0000	0.0000	0.0000	0.0000	5.40833	4.67019	382.297
MQB1R04	409	1.0571	-0.7908	50.0002	7.2681	0.0000	0.0000	0.0000	0.0000	5.43314	4.67066	382.447
D115	410	2.1227	-1.5046	43.4840	6.7683	0.0000	0.0000	0.0000	0.0000	5.48329	4.67225	382.911
MBT1R04V	411	2.1227	-1.5046	43.4840	6.7683	0.0000	0.0000	0.0000	0.0000	5.48329	4.67225	382.911
D105	412	4.0365	-2.2818	36.9168	6.2242	0.0000	0.0000	0.0000	0.0000	5.51092	4.67426	383.417
ITV1R04	413	4.0365	-2.2818	36.9168	6.2242	0.0000	0.0000	0.0000	0.0000	5.51092	4.67426	383.417
D148	414	27.4360	-6.4176	11.2215	3.3286	-0.0001	0.0000	0.0000	0.0000	5.55205	4.69535	386.107
MQB1R05	415	29.5903	-7.9765	10.1760	3.6258	-0.0001	0.0000	0.0000	0.0000	5.55289	4.69758	386.257
D149	416	59.5722	-11.3624	2.2748	1.4705	-0.0001	0.0000	0.0000	0.0000	5.55877	4.74980	387.807
IPM1R06	417	59.5722	-11.3624	2.2748	1.4705	-0.0001	0.0000	0.0000	0.0000	5.55877	4.74980	387.807
D102	418	66.5778	-12.0168	1.5184	1.0540	-0.0001	0.0000	0.0000	0.0000	5.55953	4.77557	388.107
MQB1R06	419	66.0272	15.6110	1.3173	0.3145	-0.0001	0.0000	0.0000	0.0000	5.55988	4.79266	388.257
D103	420	57.9215	14.6172	1.2086	0.0908	-0.0001	0.0000	0.0000	0.0000	5.56057	4.82675	388.525
MBT1R06H	421	57.9215	14.6172	1.2086	0.0908	-0.0001	0.0000	0.0000	0.0000	5.56057	4.82675	388.525
D150	422	20.9507	8.7547	3.0089	-1.2288	-0.0001	0.0000	0.0000	0.0000	5.56780	4.98244	390.107
IPM1R07	423	20.9507	8.7547	3.0089	-1.2288	-0.0001	0.0000	0.0000	0.0000	5.56780	4.98244	390.107
MQB1R07	424	19.6663	-0.0102	3.1918	0.0356	-0.0001	0.0000	0.0000	0.0000	5.56899	4.99006	390.257

D103	446	2.6164	0.0841	15.6585	-2.4834	0.0000	0.0000	1.3735	0.2540	5.82657	5.43545	402.902
MQB1R10	447	2.6728	-0.4639	15.9687	0.4346	0.0000	0.0000	1.3924	-0.0028	5.83564	5.43695	403.052
D102	448	2.9916	-0.6001	15.7150	0.4123	0.0000	0.0000	1.3915	-0.0028	5.85254	5.43996	403.352
IPM1R10	449	2.9916	-0.6001	15.7150	0.4123	0.0000	0.0000	1.3915	-0.0028	5.85254	5.43996	403.352
D155A	450	3.8504	-0.8664	15.2577	0.3687	0.0000	0.0000	1.3899	-0.0028	5.88014	5.44598	403.937
MA11R04	451	5.5903	-0.7786	14.5485	0.3490	0.0000	0.0000	1.2231	-0.3349	5.91489	5.45653	404.942
D156	452	13.3968	-1.6880	13.1117	0.1050	0.0000	0.0000	0.1632	-0.3349	5.97448	5.49333	408.107
MAQ1R06	453	14.3685	-0.7028	14.1451	0.3271	0.0000	0.0000	-0.0001	0.0000	5.98621	5.50498	409.125

MAXIMUM LATTICE FUNCTIONS :
 BETA X = 0.9045926323E+02 BETA Y = 0.9408492359E+02
 ETA X = 0.5999936880E+01 ETA Y = 0.1392497591E+01

1
 OPERATION LIST ,

MATRIX

1 -1,

AFTER :MAQ1R06 ELEMENT #: 453

 * TRANSFORMATION MATRIX *

FIRST ORDER MATRIX

- 0.1536331E+01 -0.8125285E+00 0.1141462E-14 0.1368058E-13 0.0000000E+00 0.4098442E-04
 - 0.7512408E-01 0.6111700E+00 0.7904205E-16 0.1776313E-14 0.0000000E+00 0.8126933E-05
 - 0.1147426E-14 -0.6275461E-14 -0.6871710E+00 -0.6062613E+00 0.0000000E+00 -0.9632509E-04
 - -0.2406491E-15 0.2140824E-14 0.1130213E+00 -0.1355528E+01 0.0000000E+00 0.5792877E-05
 - 0.9406744E-05 -0.3165181E-04 0.6906088E-05 -0.1340834E-03 0.1000000E+01 -0.1159686E-01
 - 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.1000000E+01

HORIZONTAL MOVEMENT ANALYSIS

COMPACTION FACTOR =-0.2834556E-04 GAMMA TR = -0.1878268E+03

MOVEMENT IS UNSTABLE

HALF-TRACE = 0.10737506161893E+01
 EIGENVALUE1 = 0.14648265496944E+01
 WITH EIGENVECTOR :
 X = 0.99615011001531E+00 XP = 0.87663894029948E-01
 EIGENVALUE2 = 0.68267468268418E+00
 WITH EIGENVECTOR :
 X = 0.68944256103352E+00 XP = 0.72434035855773E+00

VERTICAL MOVEMENT ANALYSIS

MOVEMENT IS UNSTABLE

HALF-TRACE = -0.10213495305395E+01
 EIGENVALUE1 = -0.81361204347170E+00
 WITH EIGENVECTOR :
 Y = 0.97893635314647E+00 YP = 0.20416565942460E+00
 EIGENVALUE2 = -0.12290870176073E+01
 WITH EIGENVECTOR :
 Y = 0.74556406796669E+00 YP = 0.66643395813611E+00

1
 OPERATION LIST ,

HARDWARE

1.21249 243.668 80.6 100 90.5537 0 0.0 0 1 0 ;

VALUES ARE FOR ENERGY : 0.121E+01 GEV

THE LENGTHS ARE MEASURED IN METERS ,THE ANGLES IN DEGREES

THE SKYZ COORDINATES,AZIMUTH,ELEVATION AND ROLL ANGLES ARE :

#	NAME	S	X	Y	Z	THETA	PHI	PSI
1	MAQ1S01	244.6857400000	80.6000000000	100.1635626025	91.5536991854	0.0000000000	18.5784000000	0.0000000000
2	D100	247.8506700000	80.6000000000	101.1719155873	94.5537002126	0.0000000000	18.5784000000	0.0000000000
3	MA11S03	248.8550600000	80.6000000000	101.3333326902	95.5405821095	0.0000000000	0.0000000000	0.0000000000
4	D101A	249.4406600000	80.6000000000	101.3333326902	96.1261821095	0.0000000000	0.0000000000	0.0000000000
5	IPM1S01	249.4406600000	80.6000000000	101.3333326902	96.1261821095	0.0000000000	0.0000000000	0.0000000000
6	D102	249.7403100000	80.6000000000	101.3333326902	96.4258321095	0.0000000000	0.0000000000	0.0000000000
7	MQB1S01	249.8903100000	80.6000000000	101.3333326902	96.5758321095	0.0000000000	0.0000000000	0.0000000000
8	D103	250.1584600000	80.6000000000	101.3333326902	96.8439821095	0.0000000000	0.0000000000	0.0000000000
9	MBT1S01H	250.1584600100	80.6000000000	101.3333326902	96.8439821195	0.0000000000	0.0000000000	0.0000000000
10	D104	250.3545500100	80.6000000000	101.3333326902	97.0400721195	0.0000000000	0.0000000000	0.0000000000
11	MBT1S01V	250.3545500200	80.6000000000	101.3333326902	97.0400721295	0.0000000000	0.0000000000	0.0000000000
12	D105	250.8600100200	80.6000000000	101.3333326902	97.5455321295	0.0000000000	0.0000000000	0.0000000000
13	ITV1S01	250.8600100200	80.6000000000	101.3333326902	97.5455321295	0.0000000000	0.0000000000	0.0000000000
14	D106A	254.9804100200	80.6000000000	101.3333326902	101.6659321295	0.0000000000	0.0000000000	0.0000000000
15	IPM1S02	254.9804100200	80.6000000000	101.3333326902	101.6659321295	0.0000000000	0.0000000000	0.0000000000

16	D102	255.2800600200	80.6000000000	101.3333326902	101.9655821295	0.0000000000	0.0000000000	0.0000000000
17	MQB1S02	255.4300600200	80.6000000000	101.3333326902	102.1155821295	0.0000000000	0.0000000000	0.0000000000
18	D103	255.6982100200	80.6000000000	101.3333326902	102.3837321295	0.0000000000	0.0000000000	0.0000000000
19	MBT1S02H	255.6982100300	80.6000000000	101.3333326902	102.3837321395	0.0000000000	0.0000000000	0.0000000000
20	D104	255.8943000300	80.6000000000	101.3333326902	102.5798221395	0.0000000000	0.0000000000	0.0000000000
21	MBT1S02V	255.8943000400	80.6000000000	101.3333326902	102.5798221495	0.0000000000	0.0000000000	0.0000000000
22	D107	257.4804100400	80.6000000000	101.3333326902	104.1659321495	0.0000000000	0.0000000000	0.0000000000
23	IPM1S03	257.4804100400	80.6000000000	101.3333326902	104.1659321495	0.0000000000	0.0000000000	0.0000000000
24	D102	257.7800600400	80.6000000000	101.3333326902	104.4655821495	0.0000000000	0.0000000000	0.0000000000
25	MQB1S03	257.9300600400	80.6000000000	101.3333326902	104.6155821495	0.0000000000	0.0000000000	0.0000000000
26	D108	258.5550600400	80.6000000000	101.3333326902	105.2405821495	0.0000000000	0.0000000000	0.0000000000
27	MBT1S05	258.5550600500	80.6000000000	101.3333326902	105.2405821595	0.0000000000	0.0000000000	0.0000000000
28	MA1S04	259.5595500500	80.6000000000	101.4965606008	106.2271658048	0.0000000000	18.7887000000	0.0000000000
29	D109	260.6158400500	80.6000000000	101.8367694158	107.2271690679	0.0000000000	18.7887000000	0.0000000000
30	IPMA1S0	260.6158400500	80.6000000000	101.8367694158	107.2271690679	0.0000000000	18.7887000000	0.0000000000
31	MA1S06	261.6203300500	80.6000000000	101.9999973263	108.2137527131	0.0000000000	0.0000000000	0.0000000000
32	D110	262.3453250500	80.6000000000	101.9999973263	108.9387477131	0.0000000000	0.0000000000	0.0000000000
33	MQB1S04	262.4953250500	80.6000000000	101.9999973263	109.0887477131	0.0000000000	0.0000000000	0.0000000000
34	D111	263.4650250500	80.6000000000	101.9999973263	110.0584477131	0.0000000000	0.0000000000	0.0000000000
35	ITV1S04	263.4650250500	80.6000000000	101.9999973263	110.0584477131	0.0000000000	0.0000000000	0.0000000000
36	D112	264.0456750500	80.6000000000	101.9999973263	110.6390977131	0.0000000000	0.0000000000	0.0000000000
37	IPM1S05	264.0456750500	80.6000000000	101.9999973263	110.6390977131	0.0000000000	0.0000000000	0.0000000000
38	D102	264.3453250500	80.6000000000	101.9999973263	110.9387477131	0.0000000000	0.0000000000	0.0000000000
39	MQB1S05	264.4953250500	80.6000000000	101.9999973263	111.0887477131	0.0000000000	0.0000000000	0.0000000000
40	D103	264.7634750500	80.6000000000	101.9999973263	111.3568977131	0.0000000000	0.0000000000	0.0000000000
41	MBT1S05H	264.7634750600	80.6000000000	101.9999973263	111.3568977231	0.0000000000	0.0000000000	0.0000000000
42	D104	264.9595650600	80.6000000000	101.9999973263	111.5529877231	0.0000000000	0.0000000000	0.0000000000
43	MBT1S05V	264.9595650700	80.6000000000	101.9999973263	111.5529877331	0.0000000000	0.0000000000	0.0000000000
44	D113	266.3453250700	80.6000000000	101.9999973263	112.9387477331	0.0000000000	0.0000000000	0.0000000000
45	MQB1S06	266.4953250700	80.6000000000	101.9999973263	113.0887477331	0.0000000000	0.0000000000	0.0000000000
46	D114	270.0456750700	80.6000000000	101.9999973263	116.6390977331	0.0000000000	0.0000000000	0.0000000000
47	IPM1S07	270.0456750700	80.6000000000	101.9999973263	116.6390977331	0.0000000000	0.0000000000	0.0000000000
48	D102	270.3453250700	80.6000000000	101.9999973263	116.9387477331	0.0000000000	0.0000000000	0.0000000000
49	MQB1S07	270.4953250700	80.6000000000	101.9999973263	117.0887477331	0.0000000000	0.0000000000	0.0000000000
50	D115	270.9595650700	80.6000000000	101.9999973263	117.5529877331	0.0000000000	0.0000000000	0.0000000000
51	MBT1S07V	270.9595650800	80.6000000000	101.9999973263	117.5529877431	0.0000000000	0.0000000000	0.0000000000
52	D116	276.0456750800	80.6000000000	101.9999973263	122.6390977431	0.0000000000	0.0000000000	0.0000000000
53	IPM1S08	276.0456750800	80.6000000000	101.9999973263	122.6390977431	0.0000000000	0.0000000000	0.0000000000
54	D102	276.3453250800	80.6000000000	101.9999973263	122.9387477431	0.0000000000	0.0000000000	0.0000000000
55	MQB1S08	276.4953250800	80.6000000000	101.9999973263	123.0887477431	0.0000000000	0.0000000000	0.0000000000
56	D103	276.7634750800	80.6000000000	101.9999973263	123.3568977431	0.0000000000	0.0000000000	0.0000000000
57	MAZ1S08H	276.7634750900	80.6000000000	101.9999973263	123.3568977531	0.0000000000	0.0000000000	0.0000000000
58	D104	276.9595650900	80.6000000000	101.9999973263	123.5529877531	0.0000000000	0.0000000000	0.0000000000
59	MBT1S08H	276.9595651000	80.6000000000	101.9999973263	123.5529877631	0.0000000000	0.0000000000	0.0000000000
60	MBT1S08V	276.9595651100	80.6000000000	101.9999973263	123.5529877731	0.0000000000	0.0000000000	0.0000000000
61	D117	281.4203251100	80.6000000000	101.9999973263	128.0137477731	0.0000000000	0.0000000000	0.0000000000
62	MAZ1S09V	281.4203251200	80.6000000000	101.9999973263	128.0137477831	0.0000000000	0.0000000000	0.0000000000
63	D118	282.0456751200	80.6000000000	101.9999973263	128.6390977831	0.0000000000	0.0000000000	0.0000000000
64	IPM1S09	282.0456751200	80.6000000000	101.9999973263	128.6390977831	0.0000000000	0.0000000000	0.0000000000
65	D102	282.3453251200	80.6000000000	101.9999973263	128.9387477831	0.0000000000	0.0000000000	0.0000000000
66	MQB1S09	282.4953251200	80.6000000000	101.9999973263	129.0887477831	0.0000000000	0.0000000000	0.0000000000
67	D115	282.9595651200	80.6000000000	101.9999973263	129.5529877831	0.0000000000	0.0000000000	0.0000000000
68	MBT1S09V	282.9595651300	80.6000000000	101.9999973263	129.5529877931	0.0000000000	0.0000000000	0.0000000000
69	D116	288.0456751300	80.6000000000	101.9999973263	134.6390977931	0.0000000000	0.0000000000	0.0000000000
70	IPM1S10	288.0456751300	80.6000000000	101.9999973263	134.6390977931	0.0000000000	0.0000000000	0.0000000000
71	D102	288.3453251300	80.6000000000	101.9999973263	134.9387477931	0.0000000000	0.0000000000	0.0000000000
72	MQB1S10	288.4953251300	80.6000000000	101.9999973263	135.0887477931	0.0000000000	0.0000000000	0.0000000000
73	D103	288.7634751300	80.6000000000	101.9999973263	135.3568977931	0.0000000000	0.0000000000	0.0000000000
74	MBT1S10H	288.7634751400	80.6000000000	101.9999973263	135.3568978031	0.0000000000	0.0000000000	0.0000000000
75	D104	288.9595651400	80.6000000000	101.9999973263	135.5529878031	0.0000000000	0.0000000000	0.0000000000
76	MBT1S10V	288.9595651500	80.6000000000	101.9999973263	135.5529878131	0.0000000000	0.0000000000	0.0000000000
77	D119	303.4703651500	80.6000000000	101.9999973263	150.0637878131	0.0000000000	0.0000000000	0.0000000000
78	MAZ1E01H	303.4703651600	80.6000000000	101.9999973263	150.0637878231	0.0000000000	0.0000000000	0.0000000000
79	D120	303.9703651600	80.6000000000	101.9999973263	150.5637878231	0.0000000000	0.0000000000	0.0000000000
80	MAZ1E01V	303.9703651700	80.6000000000	101.9999973263	150.5637878331	0.0000000000	0.0000000000	0.0000000000
81	D118	304.5957151700	80.6000000000	101.9999973263	151.1891378331	0.0000000000	0.0000000000	0.0000000000
82	IPM1E01	304.5957151700	80.6000000000	101.9999973263	151.1891378331	0.0000000000	0.0000000000	0.0000000000
83	D102	304.8953651700	80.6000000000	101.9999973263	151.4887878331	0.0000000000	0.0000000000	0.0000000000
84	MQB1E01	305.0453651700	80.6000000000	101.9999973263	151.6387878331	0.0000000000	0.0000000000	0.0000000000
85	D103	305.1315151700	80.6000000000	101.9999973263	151.9069378331	0.0000000000	0.0000000000	0.0000000000
86	MBT1E01H	305.1315151800	80.6000000000	101.9999973263	151.9069378431	0.0000000000	0.0000000000	0.0000000000
87	D104	305.5096051800	80.6000000000	101.9999973263	152.1030278431	0.0000000000	0.0000000000	0.0000000000
88	MBT1E01V	305.5096051900	80.6000000000	101.9999973263	152.1030278531	0.0000000000	0.0000000000	0.0000000000
89	D105	306.0150651900	80.6000000000	101.9999973263	152.6084878531	0.0000000000	0.0000000000	0.0000000000
90	IHA1E01	306.0150651900	80.6000000000	101.9999973263	152.6084878531	0.0000000000	0.0000000000	0.0000000000
91	D121	306.4953651900	80.6000000000	101.9999973263	153.0887878531	0.0000000000	0.0000000000	0.0000000000
92	MBW1E01	306.9955021900	80.6101341161	101.9999973263	153.5887879307	2.3222500000	0.0000000000	0.0000000000
93	D122	312.7502221900	80.8433142909	101.9999973263	159.3387817815	2.3222500000	0.0000000000	0.0000000000
94	MBX1E02	313.7504921900	80.8433143782	101.9999973263	160.3387779388	-2.3222400000	0.0000000000	0.0000000000
95	D122	319.5052121900	80.6101352069	101.9999973263	166.0887718303	-2.3222400000	0.0000000000	0.0000000000
96	MBW1E03	320.0053491900	80.6000011781	101.9999973263	166.5887719096	0.0000100000	0.0000000000	0.0000000000
97	D123	320.5303521900	80.6000012697	101.9999973263	167.1137749096	0.0000100000	0.0000000000	0.0000000000
98	D118	321.1557021900	80.6000013789	101.9999973263	167.7391249096	0.0000100000	0.0000000000	0.0000000000
99	IPM1E02	321.15						

120	D103	354.9735322300	80.6000072812	101.9999973263	201.5569549496	0.0000100000	0.0000000000	0.0000000000
121	MBT1A01H	354.9735322400	80.6000072812	101.9999973263	201.5569549596	0.0000100000	0.0000000000	0.0000000000
122	D104	355.1696222400	80.6000073154	101.9999973263	201.7530449596	0.0000100000	0.0000000000	0.0000000000
123	MBT1A01V	355.1696222500	80.6000073154	101.9999973263	201.7530449696	0.0000100000	0.0000000000	0.0000000000
124	D105	355.6750822500	80.6000074036	101.9999973263	202.2585049696	0.0000100000	0.0000000000	0.0000000000
125	ITV1A01	355.6750822500	80.6000074036	101.9999973263	202.2585049696	0.0000100000	0.0000000000	0.0000000000
126	D125	357.3878022500	80.6000077026	101.9999973263	203.9712249696	0.0000100000	0.0000000000	0.0000000000
127	MQB1A02	357.5378022500	80.6000077287	101.9999973263	204.1212249696	0.0000100000	0.0000000000	0.0000000000
128	D126	360.2202222500	80.6000081969	101.9999973263	206.8036449696	0.0000100000	0.0000000000	0.0000000000
129	MBE1A01	361.2218322500	80.5019910531	101.9999973263	207.7988315127	-11.2499900000	0.0000000000	0.0000000000
130	D127	366.4370322500	79.4845568984	101.9999973263	212.9138230846	-11.2499900000	0.0000000000	0.0000000000
131	IPM1A03	366.4370322500	79.4845568984	101.9999973263	212.9138230846	-11.2499900000	0.0000000000	0.0000000000
132	D102	366.7366822500	79.4260981347	101.9999973263	213.2077154041	-11.2499900000	0.0000000000	0.0000000000
133	MQB1A03	366.8866822500	79.3968346121	101.9999973263	213.3548332013	-11.2499900000	0.0000000000	0.0000000000
134	D115	367.3509222500	79.3062659605	101.9999973263	213.8101529757	-11.2499900000	0.0000000000	0.0000000000
135	MBT1A03V	367.3509222600	79.3062659585	101.9999973263	213.8101529855	-11.2499900000	0.0000000000	0.0000000000
136	D128	369.7318222600	78.8417758184	101.9999973263	216.1453047407	-11.2499900000	0.0000000000	0.0000000000
137	D159	369.8818222600	78.8125122958	101.9999973263	216.2924225378	-11.2499900000	0.0000000000	0.0000000000
138	D129	370.0938422600	78.7711492820	101.9999973263	216.5003686402	-11.2499900000	0.0000000000	0.0000000000
139	IPM1A04	370.0938422600	78.7711492820	101.9999973263	216.5003686402	-11.2499900000	0.0000000000	0.0000000000
140	D102	370.3934922600	78.7126905183	101.9999973263	216.7942609597	-11.2499900000	0.0000000000	0.0000000000
141	MQB1A04	370.5434922600	78.6834269957	101.9999973263	216.9413787568	-11.2499900000	0.0000000000	0.0000000000
142	D103	370.8116422600	78.6311135717	101.9999973263	217.2043763389	-11.2499900000	0.0000000000	0.0000000000
143	MBT1A04H	370.8116422700	78.6311135698	101.9999973263	217.2043763487	-11.2499900000	0.0000000000	0.0000000000
144	D130	371.5131922700	78.4942480744	101.9999973263	217.8924462861	-11.2499900000	0.0000000000	0.0000000000
145	ITV1A04	371.5131922700	78.4942480744	101.9999973263	217.8924462861	-11.2499900000	0.0000000000	0.0000000000
146	IHA1A04	371.5131922700	78.4942480744	101.9999973263	217.8924462861	-11.2499900000	0.0000000000	0.0000000000
147	D131	373.3886322700	78.1283682020	101.9999973263	219.7318502962	-11.2499900000	0.0000000000	0.0000000000
148	D159	373.5386322700	78.0991046793	101.9999973263	219.8789680934	-11.2499900000	0.0000000000	0.0000000000
149	D129	373.7506522700	78.0577416656	101.9999973263	220.0869141957	-11.2499900000	0.0000000000	0.0000000000
150	IPM1A05	373.7506522700	78.0577416656	101.9999973263	220.0869141957	-11.2499900000	0.0000000000	0.0000000000
151	D102	374.0503022700	77.9992829019	101.9999973263	220.3808065152	-11.2499900000	0.0000000000	0.0000000000
152	MQB1A05	374.2003022700	77.9700193792	101.9999973263	220.5279243124	-11.2499900000	0.0000000000	0.0000000000
153	D115	374.6645422700	77.8794507276	101.9999973263	220.9832440868	-11.2499900000	0.0000000000	0.0000000000
154	MBT1A05V	374.6645422800	77.8794507257	101.9999973263	220.9832440966	-11.2499900000	0.0000000000	0.0000000000
155	D132	379.7151522800	76.8941264589	101.9999973263	225.9368082136	-11.2499900000	0.0000000000	0.0000000000
156	MBE1A02	380.7167622800	76.6038414239	101.9999973263	226.8937503302	-22.4999900000	0.0000000000	0.0000000000
157	D127	385.9319622800	74.6080716283	101.9999973263	231.7119672164	-22.4999900000	0.0000000000	0.0000000000
158	IPM1A06	385.9319622800	74.6080716283	101.9999973263	231.7119672164	-22.4999900000	0.0000000000	0.0000000000
159	D102	386.2316122800	74.4934005861	101.9999973263	231.9888077384	-22.4999900000	0.0000000000	0.0000000000
160	MQB1A06	386.3816122800	74.4359980955	101.9999973263	232.1273896783	-22.4999900000	0.0000000000	0.0000000000
161	D103	386.6497622800	74.3333815763	101.9999973263	232.3751279928	-22.4999900000	0.0000000000	0.0000000000
162	MBT1A06H	386.6497622900	74.3333815725	101.9999973263	232.3751280021	-22.4999900000	0.0000000000	0.0000000000
163	D130	387.3513122900	74.0649101236	101.9999973263	233.0232757349	-22.4999900000	0.0000000000	0.0000000000
164	IHA1A06	387.3513122900	74.0649101236	101.9999973263	233.0232757349	-22.4999900000	0.0000000000	0.0000000000
165	D133	391.8964522900	72.3255610808	101.9999973263	232.2224378569	-22.4999900000	0.0000000000	0.0000000000
166	MBE1A03	392.8980622900	71.8541636456	101.9999973263	238.1043607981	-33.7499900000	0.0000000000	0.0000000000
167	D127	398.1132622900	68.9567545231	101.9999973263	242.4406416258	-33.7499900000	0.0000000000	0.0000000000
168	IPM1A07	398.1132622900	68.9567545231	101.9999973263	242.4406416258	-33.7499900000	0.0000000000	0.0000000000
169	D102	398.4129122900	68.7902779463	101.9999973263	242.6897915242	-33.7499900000	0.0000000000	0.0000000000
170	MQB1A07	398.5629122900	68.7069424331	101.9999973263	242.8145119806	-33.7499900000	0.0000000000	0.0000000000
171	D115	399.0271522900	68.4490245755	101.9999973263	243.2005134784	-33.7499900000	0.0000000000	0.0000000000
172	MBT1A07V	399.0271523000	68.4490245700	101.9999973263	243.2005134868	-33.7499900000	0.0000000000	0.0000000000
173	D134	401.7700823000	66.9251347088	101.9999973263	245.4811766964	-33.7499900000	0.0000000000	0.0000000000
174	IPM1A08	401.7700823000	66.9251347088	101.9999973263	245.4811766964	-33.7499900000	0.0000000000	0.0000000000
175	D102	402.0697323000	66.7586581319	101.9999973263	245.7303265948	-33.7499900000	0.0000000000	0.0000000000
176	MQB1A08	402.2197323000	66.6753226187	101.9999973263	245.8550470512	-33.7499900000	0.0000000000	0.0000000000
177	D103	402.4878823000	66.5263464997	101.9999973263	246.0780056537	-33.7499900000	0.0000000000	0.0000000000
178	MBT1A08H	402.4878823100	66.5263464941	101.9999973263	246.0780056620	-33.7499900000	0.0000000000	0.0000000000
179	D135	405.4269023100	64.8935148944	101.9999973263	248.5217117670	-33.7499900000	0.0000000000	0.0000000000
180	IPM1A09	405.4269023100	64.8935148944	101.9999973263	248.5217117670	-33.7499900000	0.0000000000	0.0000000000
181	D102	405.7265523100	64.7270383175	101.9999973263	248.7708616653	-33.7499900000	0.0000000000	0.0000000000
182	MQB1A09	405.8765523100	64.6437028043	101.9999973263	248.8955821217	-33.7499900000	0.0000000000	0.0000000000
183	D115	406.3407923100	64.3857849467	101.9999973263	249.2815836196	-33.7499900000	0.0000000000	0.0000000000
184	MBT1A09V	406.3407923200	64.3857849412	101.9999973263	249.2815836279	-33.7499900000	0.0000000000	0.0000000000
185	D136	411.3913923200	61.5798226552	101.9999973263	253.4810045415	-33.7499900000	0.0000000000	0.0000000000
186	MBE1A04	412.3930023200	60.9454283590	101.9999973263	254.2540165032	-44.9999900000	0.0000000000	0.0000000000
187	D137	414.7757232300	59.2605558280	101.9999973263	255.9388896223	-44.9999900000	0.0000000000	0.0000000000
188	IPM1A10	414.7757232300	59.2605558280	101.9999973263	255.9388896223	-44.9999900000	0.0000000000	0.0000000000
189	D102	415.0754232300	59.0486713180	101.9999973263	256.1507742062	-44.9999900000	0.0000000000	0.0000000000
190	D159	415.2254232300	58.9426053194	101.9999973263	256.2568402419	-44.9999900000	0.0000000000	0.0000000000
191	D138	417.6081923200	57.2577327884	101.9999973263	257.9417133610	-44.9999900000	0.0000000000	0.0000000000
192	IPM1A11	417.6081923200	57.2577327884	101.9999973263	257.9417133610	-44.9999900000	0.0000000000	0.0000000000
193	D102	417.9078423200	57.0458482784	101.9999973263	258.1535979450	-44.9999900000	0.0000000000	0.0000000000
194	MQB1A11	418.0578423200	56.9397822798	101.9999973263	258.2596639807	-44.9999900000	0.0000000000	0.0000000000
195	D103	418.3259923200	56.7501716295	101.9999973263	258.4492746971	-44.9999900000	0.0000000000	0.0000000000
196	MBT1A11H	418.3259923300	56.7501716224	101.9999973263	258.4492747042	-44.9999900000	0.0000000000	0.0000000000
197	D130	419.0275423300	56.2541009466	101.9999973263	258.9453455531	-44.9999900000	0.0000000000	0.0000000000
198	ITV1A11	419.0275423300	56.2541009466	101.9999973263	258.9453455531	-44.9999900000	0.0000000000	0.0000000000
199	IHA1A11	419.0275423300	56.2541009466	101.9999973263	258.9453455531	-44.9999900000	0.0000000000	0.0000000000
200	D125	420.7402623300	55.0430252317	101.9999973263	260.1564216908	-44.9999900000	0.0000000000	0.0000000000
201	D159	420.8902623300	54.9369592331	101.9999973263	260.2624877264	-44.9999900000	0.0000000000	0.0000000000
202	D126	423.5726823300						

224	D115	438.0170023500	41.0899868667	101.9999973263	270.2620114846	-56.2499900000	0.0000000000	0.0000000000
225	MBT1A15V	438.0170023600	41.0899868584	101.9999973263	270.2620114901	-56.2499900000	0.0000000000	0.0000000000
226	D132	443.0676123600	36.8905586096	101.9999973263	273.0679807977	-56.2499900000	0.0000000000	0.0000000000
227	MBE1A06	444.0692223600	36.0086358330	101.9999973263	273.5393785407	-67.4999900000	0.0000000000	0.0000000000
228	D127	449.2844223600	31.1904196433	101.9999973263	275.5351500181	-67.4999900000	0.0000000000	0.0000000000
229	IPM1A4	449.2844223600	31.1904196433	101.9999973263	275.5351500181	-67.4999900000	0.0000000000	0.0000000000
230	D102	449.5840723600	30.9135791614	101.9999973263	275.6498211569	-67.4999900000	0.0000000000	0.0000000000
231	MQB1A16	449.7340723600	30.7749972416	101.9999973263	275.7072236960	-67.4999900000	0.0000000000	0.0000000000
232	D115	450.1983123600	30.3460954384	101.9999973263	275.8848807275	-67.4999900000	0.0000000000	0.0000000000
233	MBT1A16H	450.1983123700	30.3460954292	101.9999973263	275.8848807313	-67.4999900000	0.0000000000	0.0000000000
234	D136	455.2489123700	25.6799497996	101.9999973263	277.8176624892	-67.4999900000	0.0000000000	0.0000000000
235	MBE1A07	456.2505223700	24.7230077844	101.9999973263	278.1079478583	-78.7499900000	0.0000000000	0.0000000000
236	D141	461.7653723700	19.3141242685	101.9999973263	279.1838426647	-78.7499900000	0.0000000000	0.0000000000
237	IPM1A17	461.7653723700	19.3141242685	101.9999973263	279.1838426647	-78.7499900000	0.0000000000	0.0000000000
238	MQB1A17	461.9153723700	19.1670064816	101.9999973263	279.2131062387	-78.7499900000	0.0000000000	0.0000000000
239	D115	462.3796123700	18.7116867388	101.9999973263	279.3036750492	-78.7499900000	0.0000000000	0.0000000000
240	MBT1A17V	462.3796123800	18.7116867290	101.9999973263	279.3036750512	-78.7499900000	0.0000000000	0.0000000000
241	D134	465.1225423800	16.0214614532	101.9999973263	279.8387946177	-78.7499900000	0.0000000000	0.0000000000
242	IPM1A18	465.1225423800	16.0214614532	101.9999973263	279.8387946177	-78.7499900000	0.0000000000	0.0000000000
243	D102	465.4221923800	15.7275691542	101.9999973263	279.8972534840	-78.7499900000	0.0000000000	0.0000000000
244	MQB1A18	465.5721923800	15.5804513672	101.9999973263	279.9265170580	-78.7499900000	0.0000000000	0.0000000000
245	D103	465.8403423800	15.3174538034	101.9999973263	279.9788305737	-78.7499900000	0.0000000000	0.0000000000
246	MBT1A18H	465.8403423900	15.3174537936	101.9999973263	279.9788305757	-78.7499900000	0.0000000000	0.0000000000
247	D130	466.5418923900	14.6293839040	101.9999973263	280.1156963112	-78.7499900000	0.0000000000	0.0000000000
248	IHA1A18	466.5418923900	14.6293839040	101.9999973263	280.1156963112	-78.7499900000	0.0000000000	0.0000000000
249	D158	468.7793623900	12.4349063389	101.9999973263	280.5522054370	-78.7499900000	0.0000000000	0.0000000000
250	IPM1A19	468.7793623900	12.4349063389	101.9999973263	280.5522054370	-78.7499900000	0.0000000000	0.0000000000
251	D102	469.0790123900	12.1410140398	101.9999973263	280.6106643033	-78.7499900000	0.0000000000	0.0000000000
252	MQB1A19	469.2290123900	11.9938962528	101.9999973263	280.6399278772	-78.7499900000	0.0000000000	0.0000000000
253	D115	469.6932523900	11.5385765101	101.9999973263	280.7304966878	-78.7499900000	0.0000000000	0.0000000000
254	MBT1A19V	469.6932524000	11.5385765003	101.9999973263	280.7304966898	-78.7499900000	0.0000000000	0.0000000000
255	D136	474.7438524000	6.5850225350	101.9999973263	281.7158207347	-78.7499900000	0.0000000000	0.0000000000
256	MBE1A08	475.7454624000	5.5898360262	101.9999973263	281.8138382259	-89.9999900000	0.0000000000	0.0000000000
257	D142	478.4278824000	2.9074160262	101.9999973263	281.8138386941	-89.9999900000	0.0000000000	0.0000000000
258	D159	478.5778824000	2.7574160262	101.9999973263	281.8138387203	-89.9999900000	0.0000000000	0.0000000000
259	D138	480.9606524000	0.3746460262	101.9999973263	281.8138391361	-89.9999900000	0.0000000000	0.0000000000
260	IPM1A21	480.9606524000	0.3746460262	101.9999973263	281.8138391361	-89.9999900000	0.0000000000	0.0000000000
261	D102	481.2603024000	0.0749960262	101.9999973263	281.8138391884	-89.9999900000	0.0000000000	0.0000000000
262	MQB1A21	481.4103024000	-0.0750039738	101.9999973263	281.8138392146	-89.9999900000	0.0000000000	0.0000000000
263	D103	481.6784524000	-0.3431539738	101.9999973263	281.8138392614	-89.9999900000	0.0000000000	0.0000000000
264	MBT1A21H	481.6784524100	-0.3431539838	101.9999973263	281.8138392614	-89.9999900000	0.0000000000	0.0000000000
265	D130	482.3800024100	-1.0447039838	101.9999973263	281.8138393839	-89.9999900000	0.0000000000	0.0000000000
266	ITV1A21	482.3800024100	-1.0447039838	101.9999973263	281.8138393839	-89.9999900000	0.0000000000	0.0000000000
267	IHA1A21	482.3800024100	-1.0447039838	101.9999973263	281.8138393839	-89.9999900000	0.0000000000	0.0000000000
268	D125	484.0927224100	-2.7574239838	101.9999973263	281.8138396828	-89.9999900000	0.0000000000	0.0000000000
269	D159	484.2427224100	-2.9074239838	101.9999973263	281.8138397090	-89.9999900000	0.0000000000	0.0000000000
270	D126	486.9251424100	-5.5898439838	101.9999973263	281.8138401771	-89.9999900000	0.0000000000	0.0000000000
271	MBE1A09	487.9267524100	-6.5850305269	101.9999973263	281.7158230333	-101.2499900000	0.0000000000	0.0000000000
272	D127	493.1419524100	-11.7000220989	101.9999973263	280.6983888786	-101.2499900000	0.0000000000	0.0000000000
273	D102	493.4416024100	-11.9939144183	101.9999973263	280.6399301150	-101.2499900000	0.0000000000	0.0000000000
274	MQB1A23	493.5916024100	-12.1410322155	101.9999973263	280.6106665923	-101.2499900000	0.0000000000	0.0000000000
275	D115	494.0558424100	-12.5963519899	101.9999973263	280.5200979407	-101.2499900000	0.0000000000	0.0000000000
276	MBT1A23V	494.0558424200	-12.5963519997	101.9999973263	280.5200979387	-101.2499900000	0.0000000000	0.0000000000
277	D128	496.4367424200	-14.9315037549	101.9999973263	280.556077986	-101.2499900000	0.0000000000	0.0000000000
278	D159	496.5867424200	-15.0786215520	101.9999973263	280.0263442760	-101.2499900000	0.0000000000	0.0000000000
279	D129	496.7987624200	-15.2865676544	101.9999973263	279.9849812622	-101.2499900000	0.0000000000	0.0000000000
280	IPM1A24	496.7987624200	-15.2865676544	101.9999973263	279.9849812622	-101.2499900000	0.0000000000	0.0000000000
281	D102	497.0984124200	-15.5804599739	101.9999973263	279.9265224985	-101.2499900000	0.0000000000	0.0000000000
282	MQB1A24	497.2484124200	-15.7275777711	101.9999973263	279.8972589759	-101.2499900000	0.0000000000	0.0000000000
283	D103	497.5165624200	-15.9905753531	101.9999973263	279.8449455519	-101.2499900000	0.0000000000	0.0000000000
284	MBT1A24H	497.5165624300	-15.9905753629	101.9999973263	279.8449455500	-101.2499900000	0.0000000000	0.0000000000
285	D130	498.2181124300	-16.6786453003	101.9999973263	279.7080800547	-101.2499900000	0.0000000000	0.0000000000
286	IHA1A24	498.2181124300	-16.6786453003	101.9999973263	279.7080800547	-101.2499900000	0.0000000000	0.0000000000
287	D157	500.0935524300	-18.5180493104	101.9999973263	279.3422001822	-101.2499900000	0.0000000000	0.0000000000
288	D159	500.2435524300	-18.6651671076	101.9999973263	279.3129366596	-101.2499900000	0.0000000000	0.0000000000
289	D140	500.7552224300	-19.1670055294	101.9999973263	279.2131148821	-101.2499900000	0.0000000000	0.0000000000
290	IPM1A25	500.7552224300	-19.1670055294	101.9999973263	279.2131148821	-101.2499900000	0.0000000000	0.0000000000
291	MQB1A25	500.9052224300	-19.3141233266	101.9999973263	279.1838513595	-101.2499900000	0.0000000000	0.0000000000
292	D115	501.3694624300	-19.7694431010	101.9999973263	279.0932827078	-101.2499900000	0.0000000000	0.0000000000
293	MBT1A25V	501.3694624400	-19.7694431108	101.9999973263	279.0932827059	-101.2499900000	0.0000000000	0.0000000000
294	D132	506.4200724400	-24.7230072278	101.9999973263	278.1079584392	-101.2499900000	0.0000000000	0.0000000000
295	MBE1A10	507.4216824400	-25.6799493444	101.9999973263	277.8176734041	-112.4999900000	0.0000000000	0.0000000000
296	D127	512.6368824400	-30.4981662307	101.9999973263	275.8219036086	-112.4999900000	0.0000000000	0.0000000000
297	IPM1A26	512.6368824400	-30.4981662307	101.9999973263	275.8219036086	-112.4999900000	0.0000000000	0.0000000000
298	D102	512.9365324400	-30.7750067526	101.9999973263	275.7072325664	-112.4999900000	0.0000000000	0.0000000000
299	MQB1A26	513.0865324400	-30.9135886925	101.9999973263	275.6498300757	-112.4999900000	0.0000000000	0.0000000000
300	D115	513.5507724400	-31.3424905577	101.9999973263	275.4721731939	-112.4999900000	0.0000000000	0.0000000000
301	MBT1A26H	513.5507724500	-31.3424905669	101.9999973263	275.4721731901	-112.4999900000	0.0000000000	0.0000000000
302	D136	518.6013724500	-36.0086368711	101.9999973263	273.5393930610	-112.4999900000	0.0000000000	0.0000000000
303	MBE1A11	519.6029824500	-36.8905598123	101.9999973263	273.0679956258	-123.7499900000	0.0000000000	0.0000000000
304	D141	525.1178324500	-41.4759905384	101.9999973263	270.0041099265	-123.7499900000	0.0000000000	0.0000000000
305	IPM1A27	525.1178324500	-41.4759905384	101.9999973263	270.0041099265	-123.7499900000	0.0000000000	0.0000000000
306	MQB							

328	D103	545.0309124800	-57.2354737101	101.9999973263	257.9640036082	-134.9999900000	0.0000000000	0.0000000000
329	MBT1A31H	545.0309124900	-57.2354737172	101.9999973263	257.9640036011	-134.9999900000	0.0000000000	0.0000000000
330	D130	545.7324624900	-57.7315445661	101.9999973263	257.4679329254	-134.9999900000	0.0000000000	0.0000000000
331	ITV1A31	545.7324624900	-57.7315445661	101.9999973263	257.4679329254	-134.9999900000	0.0000000000	0.0000000000
332	D125	547.4451824900	-58.9426207037	101.9999973263	256.2568572105	-134.9999900000	0.0000000000	0.0000000000
333	D159	547.5951824900	-59.0486867394	101.9999973263	256.1507912118	-134.9999900000	0.0000000000	0.0000000000
334	D126	550.2776024900	-60.9454444425	101.9999973263	254.2540341709	-134.9999900000	0.0000000000	0.0000000000
335	MBE1A15	551.2792124900	-61.5798390085	101.9999973263	253.4810224306	-146.2499900000	0.0000000000	0.0000000000
336	D127	556.4944124900	-64.4772496446	101.9999973263	249.1447426142	-146.2499900000	0.0000000000	0.0000000000
337	D102	556.7940624900	-64.6437263084	101.9999973263	248.8955927739	-146.2499900000	0.0000000000	0.0000000000
338	MQB1A33	556.9440624900	-64.7270618651	101.9999973263	248.7708723466	-146.2499900000	0.0000000000	0.0000000000
339	D115	557.4083024900	-64.9849798575	101.9999973263	248.3848709388	-146.2499900000	0.0000000000	0.0000000000
340	MBT1A33V	557.4083025000	-64.9849798630	101.9999973263	248.3848709305	-146.2499900000	0.0000000000	0.0000000000
341	D128	559.7892025000	-66.3077373763	101.9999973263	246.4052251615	-146.2499900000	0.0000000000	0.0000000000
342	D159	559.9392025000	-66.3910729331	101.9999973263	246.2805047342	-146.2499900000	0.0000000000	0.0000000000
343	D129	560.1512225000	-66.5088649646	101.9999973263	246.1042165675	-146.2499900000	0.0000000000	0.0000000000
344	IPM1A34	560.1512225000	-66.5088649646	101.9999973263	246.1042165675	-146.2499900000	0.0000000000	0.0000000000
345	D102	560.4508725000	-66.6753416284	101.9999973263	245.8550667273	-146.2499900000	0.0000000000	0.0000000000
346	MQB1A34	560.6008725000	-66.7586771852	101.9999973263	245.7303463000	-146.2499900000	0.0000000000	0.0000000000
347	D103	560.8690225000	-66.9076533821	101.9999973263	245.5073877494	-146.2499900000	0.0000000000	0.0000000000
348	MBT1A34H	560.8690225100	-66.9076533876	101.9999973263	245.5073877411	-146.2499900000	0.0000000000	0.0000000000
349	D139	563.4460125100	-68.3393526964	101.9999973263	243.3646991148	-146.2499900000	0.0000000000	0.0000000000
350	D159	563.5960125100	-68.4226882531	101.9999973263	243.2399786875	-146.2499900000	0.0000000000	0.0000000000
351	D140	564.1076825100	-68.7069569485	101.9999973263	242.8145406806	-146.2499900000	0.0000000000	0.0000000000
352	IPM1A35	564.1076825100	-68.7069569485	101.9999973263	242.8145406806	-146.2499900000	0.0000000000	0.0000000000
353	MQB1A35	564.2576825100	-68.7902925052	101.9999973263	242.6898202533	-146.2499900000	0.0000000000	0.0000000000
354	D115	564.7219225100	-69.0482104976	101.9999973263	242.3038188455	-146.2499900000	0.0000000000	0.0000000000
355	MBT1A35V	564.7219225200	-69.0482105031	101.9999973263	242.3038188371	-146.2499900000	0.0000000000	0.0000000000
356	D132	569.7725325200	-71.8541798106	101.9999973263	238.1043905883	-146.2499900000	0.0000000000	0.0000000000
357	MBE1A17	570.7741425200	-72.3255775537	101.9999973263	237.2224678117	-157.4999900000	0.0000000000	0.0000000000
358	D127	575.9893425200	-74.3213490311	101.9999973263	232.4042516221	-157.4999900000	0.0000000000	0.0000000000
359	IPM1A36	575.9893425200	-74.3213490311	101.9999973263	232.4042516221	-157.4999900000	0.0000000000	0.0000000000
360	D102	576.2889925200	-74.4360201699	101.9999973263	232.1274111140	-157.4999900000	0.0000000000	0.0000000000
361	MQB1A36	576.4389925200	-74.4934227090	101.9999973263	231.9888292203	-157.4999900000	0.0000000000	0.0000000000
362	D103	576.7071425200	-74.5960393146	101.9999973263	231.7410909416	-157.4999900000	0.0000000000	0.0000000000
363	MBT1A36H	576.7071425300	-74.5960393184	101.9999973263	231.7410909323	-157.4999900000	0.0000000000	0.0000000000
364	D145	581.9538325300	-76.6038615022	101.9999973263	226.8937817783	-157.4999900000	0.0000000000	0.0000000000
365	MBE1A15	582.9554425300	-76.8941468713	101.9999973263	225.9368397631	-168.7499900000	0.0000000000	0.0000000000
366	D141	588.4702925300	-77.9700416777	101.9999973263	220.5279562473	-168.7499900000	0.0000000000	0.0000000000
367	IPM1A37	588.4702925300	-77.9700416777	101.9999973263	220.5279562473	-168.7499900000	0.0000000000	0.0000000000
368	MQB1A37	588.6202925300	-77.9993052517	101.9999973263	230.3808384603	-168.7499900000	0.0000000000	0.0000000000
369	D115	589.0845325300	-78.0898740622	101.9999973263	219.9255187175	-168.7499900000	0.0000000000	0.0000000000
370	MBT1A37V	589.0845325400	-78.0898740642	101.9999973263	219.9255187077	-168.7499900000	0.0000000000	0.0000000000
371	D134	591.8274625400	-78.6249936307	101.9999973263	217.2352934319	-168.7499900000	0.0000000000	0.0000000000
372	IPM1A38	591.8274625400	-78.6249936307	101.9999973263	217.2352934319	-168.7499900000	0.0000000000	0.0000000000
373	D102	592.1271125400	-78.6834524970	101.9999973263	216.9414011329	-168.7499900000	0.0000000000	0.0000000000
374	MQB1A38	592.2771125400	-78.7127160709	101.9999973263	216.7942833459	-168.7499900000	0.0000000000	0.0000000000
375	D103	592.5452625400	-78.7650295867	101.9999973263	216.5312857821	-168.7499900000	0.0000000000	0.0000000000
376	MBT1A38H	592.5452625500	-78.7650295886	101.9999973263	216.5312857723	-168.7499900000	0.0000000000	0.0000000000
377	D135	595.4842825500	-79.3384044500	101.9999973263	213.6487383176	-168.7499900000	0.0000000000	0.0000000000
378	D102	595.7839325500	-79.3968633162	101.9999973263	213.3548460185	-168.7499900000	0.0000000000	0.0000000000
379	MQB1A39	595.9339325500	-79.4261268902	101.9999973263	213.2077282315	-168.7499900000	0.0000000000	0.0000000000
380	D143	601.4487725500	-80.5020197457	101.9999973263	207.7988545235	-168.7499900000	0.0000000000	0.0000000000
381	MBE1A16	602.4503825500	-80.6000372370	101.9999973263	206.8036680147	-179.9999900000	0.0000000000	0.0000000000
382	D142	605.1328025500	-80.6000377051	101.9999973263	204.1212480147	-179.9999900000	0.0000000000	0.0000000000
383	MQB1A40	605.2828025500	-80.6000377313	101.9999973263	203.9712480147	-179.9999900000	0.0000000000	0.0000000000
384	D115	605.7470425500	-80.6000378123	101.9999973263	203.5070080147	-179.9999900000	0.0000000000	0.0000000000
385	MBT1A40V	605.7470425600	-80.6000378123	101.9999973263	203.5070080047	-179.9999900000	0.0000000000	0.0000000000
386	D144	607.6655725600	-80.6000381472	101.9999973263	201.5884780047	-179.9999900000	0.0000000000	0.0000000000
387	IPM1R01	607.6655725600	-80.6000381472	101.9999973263	201.5884780047	-179.9999900000	0.0000000000	0.0000000000
388	D102	607.9652225600	-80.6000381995	101.9999973263	201.2888280047	-179.9999900000	0.0000000000	0.0000000000
389	MQB1R01	608.1152225600	-80.6000382257	101.9999973263	201.1388280047	-179.9999900000	0.0000000000	0.0000000000
390	D103	608.3833725600	-80.6000382725	101.9999973263	200.8706780047	-179.9999900000	0.0000000000	0.0000000000
391	MBT1R01H	608.3833725700	-80.6000382725	101.9999973263	200.8706779947	-179.9999900000	0.0000000000	0.0000000000
392	D130	609.0849225700	-80.6000383949	101.9999973263	200.1691279947	-179.9999900000	0.0000000000	0.0000000000
393	ITV1R01	609.0849225700	-80.6000383949	101.9999973263	200.1691279947	-179.9999900000	0.0000000000	0.0000000000
394	D146	613.6655725700	-80.6000391944	101.9999973263	195.5884779947	-179.9999900000	0.0000000000	0.0000000000
395	IPM1R02	613.6655725700	-80.6000391944	101.9999973263	195.5884779947	-179.9999900000	0.0000000000	0.0000000000
396	D102	613.9652225700	-80.6000392467	101.9999973263	195.2888279947	-179.9999900000	0.0000000000	0.0000000000
397	MQB1R02	614.1152225700	-80.6000392728	101.9999973263	195.1388279947	-179.9999900000	0.0000000000	0.0000000000
398	D115	614.5794625700	-80.6000393539	101.9999973263	194.6745879947	-179.9999900000	0.0000000000	0.0000000000
399	MBT1R02V	614.5794625800	-80.6000393539	101.9999973263	194.6745879847	-179.9999900000	0.0000000000	0.0000000000
400	D116	619.6655725800	-80.6000402416	101.9999973263	189.5884779847	-179.9999900000	0.0000000000	0.0000000000
401	IPM1R03	619.6655725800	-80.6000402416	101.9999973263	189.5884779847	-179.9999900000	0.0000000000	0.0000000000
402	D102	619.9652225800	-80.6000402939	101.9999973263	189.2888279847	-179.9999900000	0.0000000000	0.0000000000
403	MQB1R03	620.1152225800	-80.6000403200	101.9999973263	189.1388279847	-179.9999900000	0.0000000000	0.0000000000
404	D103	620.3833725800	-80.6000403668	101.9999973263	188.8706779847	-179.9999900000	0.0000000000	0.0000000000
405	MBT1R03H	620.3833725900	-80.6000403668	101.9999973263	188.8706779747	-179.9999900000	0.0000000000	0.0000000000
406	D147	625.6655725900	-80.6000412888	101.9999973263	183.5884779747	-179.9999900000	0.0000000000	0.0000000000
407	IPM1R04	625.6655725900	-80.6000412888	101.9999973263	183.5884779747	-179.9999900000	0.0000000000	0.0000000000
408	D102	625.9652225900	-80.6000413411	101.9999973263	183.2888279747	-179.9999900000	0.0000000000	0.0000000000
409	MQB1R04	626.1152225900	-80.6000413672	101.9999973263	183.1388279747			

432	D152	638.5304876300	-80.6000435180	101.3333326902	170.8156623810	-179.9999900000	0.0000000000	0.0000000000
433	MQB1R08	638.6804876300	-80.6000435442	101.3333326902	170.6656623810	-179.9999900000	0.0000000000	0.0000000000
434	D102	638.9801376300	-80.6000435965	101.3333326902	170.3660123810	-179.9999900000	0.0000000000	0.0000000000
435	IPM1R08	638.9801376300	-80.6000435965	101.3333326902	170.3660123810	-179.9999900000	0.0000000000	0.0000000000
436	D153	640.7623376300	-80.6000439076	101.3333326902	168.5838123810	-179.9999900000	0.0000000000	0.0000000000
437	MBT1R09H	640.7623376400	-80.6000439076	101.3333326902	168.5838123710	-179.9999900000	0.0000000000	0.0000000000
438	D103	641.0304876400	-80.6000439544	101.3333326902	168.3156623710	-179.9999900000	0.0000000000	0.0000000000
439	MQB1R09	641.1804876400	-80.6000439806	101.3333326902	168.1656623710	-179.9999900000	0.0000000000	0.0000000000
440	D102	641.4801376400	-80.6000440329	101.3333326902	167.8660123710	-179.9999900000	0.0000000000	0.0000000000
441	IPM1R09	641.4801376400	-80.6000440329	101.3333326902	167.8660123710	-179.9999900000	0.0000000000	0.0000000000
442	D154A	646.1059976400	-80.6000448402	101.3333326902	163.2401523710	-179.9999900000	0.0000000000	0.0000000000
443	MBT1R10V	646.1059976500	-80.6000448402	101.3333326902	163.2401523610	-179.9999900000	0.0000000000	0.0000000000
444	D104	646.3020876500	-80.6000448744	101.3333326902	163.0440623610	-179.9999900000	0.0000000000	0.0000000000
445	MBT1R10H	646.3020876600	-80.6000448744	101.3333326902	163.0440623510	-179.9999900000	0.0000000000	0.0000000000
446	D103	646.5702376600	-80.6000449212	101.3333326902	162.7759123510	-179.9999900000	0.0000000000	0.0000000000
447	MQB1R10	646.7202376600	-80.6000449474	101.3333326902	162.6259123510	-179.9999900000	0.0000000000	0.0000000000
448	D102	647.0198876600	-80.6000449997	101.3333326902	162.3262623510	-179.9999900000	0.0000000000	0.0000000000
449	IPM1R10	647.0198876600	-80.6000449997	101.3333326902	162.3262623510	-179.9999900000	0.0000000000	0.0000000000
450	D155A	647.6054876600	-80.6000451019	101.3333326902	161.7406623510	-179.9999900000	0.0000000000	0.0000000000
451	MA1R04	648.6098776600	-80.6000452742	101.1719155873	160.7537804541	-179.9999900000	-18.5784000000	0.0000000000
452	D156	651.7748176600	-80.6000457978	100.1635594165	157.7537699480	-179.9999900000	-18.5784000000	0.0000000000
453	MAQ1R06	652.7925576600	-80.6000459723	99.9999968140	156.7537707626	-179.9999900000	0.0000000000	0.0000000000

1

STOP

Arc2.out

LDIMAT VERSION 2.9 PROD

ODATE AND TIME OF THIS RUN: 12-JUN-2007 12:48:13

XSIF Parser Version 2.1

Version Date: 01-JAN-2004

Run: 12-JUN-2007 12:48:13

XSIF Parser developed by NLC Department,
Stanford Linear Accelerator Center.

UTRANSPORT

TITLE

CONVERTED FROM ../../OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//ARC2.OPT

5 MAW2S01: SBEND, L=1.00595, ANGLE=10.8011, K1=-0.0452469, &
E1=0, E2=10.8011, HGAP=0.01905, &
HGAPX=0.01905, &
FINT=0.5, TILT=90

10 D300A: DRIFT, L=5.8571
MAL2S03: SBEND, L=1.50222, ANGLE=-10.8011, K1=-0.908133, &
E1=-5.40054, E2=-5.40054, HGAP=0.012827, &
HGAPX=0.012827, &
FINT=0.5, TILT=90

15 D301: DRIFT, L=0.445348
IPM2S01: MONITOR, L=0
D302: DRIFT, L=0.29965
MQB2S01: QUADRUPOLE, L=0.15, K1=-1.3531, TILT=0
D303: DRIFT, L=0.26815

20 MBT2S01H: GKICK, L=1E-08, DXP=0, DYP=0
D304: DRIFT, L=0.19609
MBT2S01V: GKICK, L=1E-08, DXP=0, DYP=0
D305: DRIFT, L=0.50546
ITV2S01: MONITOR, L=0

25 D306A: DRIFT, L=3.05155
IPM2S02: MONITOR, L=0
D307: DRIFT, L=0.22465
MQC2S02: QUADRUPOLE, L=0.3, K1=1.25239, TILT=0
D308: DRIFT, L=0.19315

30 MBT2S02H: GKICK, L=1E-08, DXP=0, DYP=0
MBT2S02V: GKICK, L=1E-08, DXP=0, DYP=0
D309: DRIFT, L=1.44611
IPM2S03: MONITOR, L=0
MQC2S03: QUADRUPOLE, L=0.3, K1=-1.46436, TILT=0

35 MBT2S03H: GKICK, L=1E-08, DXP=0, DYP=0
MBT2S03V: GKICK, L=1E-08, DXP=0, DYP=0
D310: DRIFT, L=0.56076
MAI2S04: SBEND, L=1.00114, ANGLE=9.48626, K1=-0, &
E1=4.74314, E2=4.74314, HGAP=0.012827, &
HGAPX=0.012827, &
FINT=0.5, TILT=90

40 D311: DRIFT, L=3.0416
IPMAI2S06: MONITOR, L=0
MAI2S06: SBEND, L=1.00114, ANGLE=-9.48626, K1=-0.151059, &
E1=-4.74314, E2=-4.74314, HGAP=0.012827, &
HGAPX=0.012827, &
FINT=0.5, TILT=90

45 D312A: DRIFT, L=2.14855
MQC2S04: QUADRUPOLE, L=0.3, K1=-1.13809, TILT=0
D313: DRIFT, L=0.8947
D314: DRIFT, L=0.18065
IPM2S05: MONITOR, L=0
MQC2S05: QUADRUPOLE, L=0.3, K1=0.827431, TILT=0

50 MBT2S05H: GKICK, L=1E-08, DXP=0, DYP=0
MBT2S05V: GKICK, L=1E-08, DXP=0, DYP=0
D315: DRIFT, L=0.91076
MQC2S06: QUADRUPOLE, L=0.3, K1=-0.00315385, TILT=0
D317: DRIFT, L=5.48611
IPM2S07: MONITOR, L=0

60 MQC2S07: QUADRUPOLE, L=0.3, K1=0.00224935, TILT=0
MBT2S07H: GKICK, L=1E-08, DXP=0, DYP=0

MBT2S07V: GKICK, L=1E-08, DXP=0, DYP=0
D318: DRIFT, L=2.28611
IPM2S08: MONITOR, L=0
65 MQC2S08: QUADRUPOLE, L=0.3, K1=-0.308514, TILT=0
MBT2S08H: GKICK, L=1E-08, DXP=0, DYP=0
MBT2S08V: GKICK, L=1E-08, DXP=0, DYP=0
IPM2S09: MONITOR, L=0
70 MQC2S09: QUADRUPOLE, L=0.3, K1=0.000493899, TILT=0
MBT2S09H: GKICK, L=1E-08, DXP=0, DYP=0
MBT2S09V: GKICK, L=1E-08, DXP=0, DYP=0
IPM2S10: MONITOR, L=0
75 MQC2S10: QUADRUPOLE, L=0.3, K1=0.309812, TILT=0
MBT2S10H: GKICK, L=1E-08, DXP=0, DYP=0
MAT2S10H: GKICK, L=1E-08, DXP=0, DYP=0
MBT2S10V: GKICK, L=1E-08, DXP=0, DYP=0
D319: DRIFT, L=15.1307
IPM2E01: MONITOR, L=0
80 MQB2E01: QUADRUPOLE, L=0.15, K1=-0.528407, TILT=0
MBT2E01H: GKICK, L=1E-08, DXP=0, DYP=0
MBT2E01V: GKICK, L=1E-08, DXP=0, DYP=0
IHA2E01: MONITOR, L=0
D320: DRIFT, L=0.4803
85 MBW2E01: SBEND, L=0.500137, ANGLE=-2.32225, K1=-0, &
E1=-0, E2=-2.32225, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
D321: DRIFT, L=5.75473
90 MBX2E02: SBEND, L=1.00027, ANGLE=4.64449, K1=-0, &
E1=2.32225, E2=2.32225, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
MBW2E03: SBEND, L=0.500137, ANGLE=-2.32225, K1=-0, &
95 E1=-2.32225, E2=-0, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
D322: DRIFT, L=1.15034
IPM2E02: MONITOR, L=0
100 MQB2E02: QUADRUPOLE, L=0.15, K1=0.567654, TILT=0
MBT2E02H: GKICK, L=1E-08, DXP=0, DYP=0
MBT2E02V: GKICK, L=1E-08, DXP=0, DYP=0
D323: DRIFT, L=0.37846
ITV2E02: MONITOR, L=0
105 D324: DRIFT, L=0.127
D319A: DRIFT, L=14.9343
IHA2E03: MONITOR, L=0
D319B: DRIFT, L=0.196342
IPM2E03: MONITOR, L=0
110 MQB2E03: QUADRUPOLE, L=0.15, K1=-0.67074, TILT=0
MBT2E03H: GKICK, L=1E-08, DXP=0, DYP=0
MBT2E03V: GKICK, L=1E-08, DXP=0, DYP=0
D325: DRIFT, L=15.6375
IPM2A01: MONITOR, L=0
115 MQC2A01: QUADRUPOLE, L=0.3, K1=0.397466, TILT=0
MBT2A01H: GKICK, L=1E-08, DXP=0, DYP=0
MBT2A01V: GKICK, L=1E-08, DXP=0, DYP=0
ITV2A01: MONITOR, L=0
D326: DRIFT, L=1.8044
120 MQC2A02: QUADRUPOLE, L=0.3, K1=0.0496699, TILT=0
D327: DRIFT, L=1.77249
MBR2A01: SBEND, L=2.00322, ANGLE=11.25, K1=-0.198474, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
HGAPX=0.0124856, &
FINT=0.5, TILT=0
125 D328: DRIFT, L=4.54694
IPM2A03: MONITOR, L=0
MQC2A03: QUADRUPOLE, L=0.3, K1=-0.619435, TILT=0
D316: DRIFT, L=0.38924
130 MBT2A03V: GKICK, L=1E-08, DXP=0, DYP=0
D329: DRIFT, L=2.70939
D372: DRIFT, L=0.15
D330: DRIFT, L=0.21202
IPM2A04: MONITOR, L=0
135 MQC2A04: QUADRUPOLE, L=0.3, K1=1.21735, TILT=0
MBT2A04H: GKICK, L=1E-08, DXP=0, DYP=0
D331: DRIFT, L=0.41809
D332: DRIFT, L=2.48738
IPM2A05: MONITOR, L=0
140 MQC2A05: QUADRUPOLE, L=0.3, K1=-0.501794, TILT=0
MBT2A05V: GKICK, L=1E-08, DXP=0, DYP=0
D333: DRIFT, L=4.38235
145 MBR2A02: SBEND, L=2.00322, ANGLE=11.25, K1=-0.198474, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
HGAPX=0.0124856, &
FINT=0.5, TILT=0
IPM2A06: MONITOR, L=0
MQC2A06: QUADRUPOLE, L=0.3, K1=0.53402, TILT=0
MBT2A06H: GKICK, L=1E-08, DXP=0, DYP=0
D334: DRIFT, L=0.70155
150 D335: DRIFT, L=3.87689
MBR2A03: SBEND, L=2.00322, ANGLE=11.25, K1=-0.198474, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
HGAPX=0.0124856, &
FINT=0.5, TILT=0
155 IPM2A07: MONITOR, L=0
MQC2A07: QUADRUPOLE, L=0.3, K1=-0.510129, TILT=0
MBT2A07V: GKICK, L=1E-08, DXP=0, DYP=0
D336: DRIFT, L=3.07141
IPM2A08: MONITOR, L=0
160 MQC2A08: QUADRUPOLE, L=0.3, K1=1.04846, TILT=0
MBT2A08H: GKICK, L=1E-08, DXP=0, DYP=0
D337: DRIFT, L=3.2675
IPM2A09: MONITOR, L=0
165 MQC2A09: QUADRUPOLE, L=0.3, K1=-0.44262, TILT=0
MBT2A09V: GKICK, L=1E-08, DXP=0, DYP=0

MBR2A04: SBEND, L=2.00322, ANGLE=11.25, K1=-0.198474, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
HGAPX=0.0124856, &
FINT=0.5, TILT=0
170 D338: DRIFT, L=1.54784
IPM2A10: MONITOR, L=0
D371: DRIFT, L=0.3
D339: DRIFT, L=2.47445
IPM2A11: MONITOR, L=0
175 MQC2A11: QUADRUPOLE, L=0.3, K1=0.511737, TILT=0
MBT2A11H: GKICK, L=1E-08, DXP=0, DYP=0
ITV2A11: MONITOR, L=0
MBR2A05: SBEND, L=2.00322, ANGLE=11.25, K1=-0.198474, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
HGAPX=0.0124856, &
FINT=0.5, TILT=0
180 MQC2A13: QUADRUPOLE, L=0.3, K1=-0.571083, TILT=0
MBT2A13V: GKICK, L=1E-08, DXP=0, DYP=0
IPM2A14: MONITOR, L=0
185 MQC2A14: QUADRUPOLE, L=0.3, K1=1.08031, TILT=0
MBT2A14H: GKICK, L=1E-08, DXP=0, DYP=0
D340: DRIFT, L=2.90547
D341: DRIFT, L=0.43667
IPM2A15: MONITOR, L=0
190 MQC2A15: QUADRUPOLE, L=0.3, K1=-0.390559, TILT=0
MBT2A15V: GKICK, L=1E-08, DXP=0, DYP=0
MBR2A06: SBEND, L=2.00322, ANGLE=11.25, K1=-0.198474, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
HGAPX=0.0124856, &
FINT=0.5, TILT=0
195 IPM2A16: MONITOR, L=0
MQC2A16: QUADRUPOLE, L=0.3, K1=0.384925, TILT=0
MBT2A16H: GKICK, L=1E-08, DXP=0, DYP=0
MBR2A07: SBEND, L=2.00322, ANGLE=11.25, K1=-0.198474, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
HGAPX=0.0124856, &
FINT=0.5, TILT=0
200 D342: DRIFT, L=4.77159
IPM2A17: MONITOR, L=0
205 MQC2A17: QUADRUPOLE, L=0.3, K1=-0.441324, TILT=0
MBT2A17V: GKICK, L=1E-08, DXP=0, DYP=0
IPM2A18: MONITOR, L=0
MQC2A18: QUADRUPOLE, L=0.3, K1=0.55157, TILT=0
MBT2A18H: GKICK, L=1E-08, DXP=0, DYP=0
210 MQC2A19: QUADRUPOLE, L=0.3, K1=-0.276851, TILT=0
MBT2A19V: GKICK, L=1E-08, DXP=0, DYP=0
MBR2A08: SBEND, L=2.00322, ANGLE=11.25, K1=-0.198474, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
HGAPX=0.0124856, &
FINT=0.5, TILT=0
215 D343: DRIFT, L=1.77249
IPM2A21: MONITOR, L=0
MQC2A21: QUADRUPOLE, L=0.3, K1=0.272351, TILT=0
MBT2A21H: GKICK, L=1E-08, DXP=0, DYP=0
220 ITV2A21: MONITOR, L=0
IHA2A21: MONITOR, L=0
MBR2A09: SBEND, L=2.00322, ANGLE=11.25, K1=-0.198474, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
HGAPX=0.0124856, &
FINT=0.5, TILT=0
225 MQC2A23: QUADRUPOLE, L=0.3, K1=-0.276851, TILT=0
MBT2A23V: GKICK, L=1E-08, DXP=0, DYP=0
IPM2A24: MONITOR, L=0
MQC2A24: QUADRUPOLE, L=0.3, K1=0.55157, TILT=0
230 MBT2A24H: GKICK, L=1E-08, DXP=0, DYP=0
IPM2A25: MONITOR, L=0
MQC2A25: QUADRUPOLE, L=0.3, K1=-0.441324, TILT=0
MBT2A25V: GKICK, L=1E-08, DXP=0, DYP=0
235 MBR2A10: SBEND, L=2.00322, ANGLE=11.25, K1=-0.198474, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
HGAPX=0.0124856, &
FINT=0.5, TILT=0
IPM2A26: MONITOR, L=0
MQC2A26: QUADRUPOLE, L=0.3, K1=0.384925, TILT=0
240 MBT2A26H: GKICK, L=1E-08, DXP=0, DYP=0
MBR2A11: SBEND, L=2.00322, ANGLE=11.25, K1=-0.198474, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
HGAPX=0.0124856, &
FINT=0.5, TILT=0
245 IPM2A27: MONITOR, L=0
MQC2A27: QUADRUPOLE, L=0.3, K1=-0.390559, TILT=0
MBT2A27V: GKICK, L=1E-08, DXP=0, DYP=0
IPM2A28: MONITOR, L=0
MQC2A28: QUADRUPOLE, L=0.3, K1=1.08031, TILT=0
250 MBT2A28H: GKICK, L=1E-08, DXP=0, DYP=0
MQC2A29: QUADRUPOLE, L=0.3, K1=-0.571083, TILT=0
D344: DRIFT, L=4.77159
MBR2A12: SBEND, L=2.00322, ANGLE=11.25, K1=-0.198474, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
HGAPX=0.0124856, &
FINT=0.5, TILT=0
255 MBT2A30V: GKICK, L=1E-08, DXP=0, DYP=0
D345: DRIFT, L=2.08521
IPM2A31: MONITOR, L=0
260 MQC2A31: QUADRUPOLE, L=0.3, K1=0.511737, TILT=0
MBT2A31H: GKICK, L=1E-08, DXP=0, DYP=0
ITV2A31: MONITOR, L=0
MBR2A13: SBEND, L=2.00322, ANGLE=11.25, K1=-0.198474, &
E1=5.625, E2=5.625, HGAP=0.0124856, &
HGAPX=0.0124856, &
FINT=0.5, TILT=0
265 MQC2A33: QUADRUPOLE, L=0.3, K1=-0.44262, TILT=0
MBT2A33V: GKICK, L=1E-08, DXP=0, DYP=0
IPM2A34: MONITOR, L=0

270 MQC2A34: QUADRUPOLE, L=0.3, K1=1.04846, TILT=0
 MBT2A34H: GKICK, L=1E-08, DXP=0, DYP=0
 IPM2A35: MONITOR, L=0
 MQC2A35: QUADRUPOLE, L=0.3, K1=-0.510129, TILT=0
 MBT2A35V: GKICK, L=1E-08, DXP=0, DYP=0
 275 MBR2A14: SBEND, L=2.00322, ANGLE=11.25, K1=-0.198474, &
 E1=5.625, E2=5.625, HGAP=0.0124856, &
 HGAPX=0.0124856, &
 FINT=0.5, TILT=0
 IPM2A36: MONITOR, L=0
 280 MQC2A36: QUADRUPOLE, L=0.3, K1=0.53402, TILT=0
 MBT2A36H: GKICK, L=1E-08, DXP=0, DYP=0
 D346: DRIFT, L=4.57844
 MBR2A15: SBEND, L=2.00322, ANGLE=11.25, K1=-0.198474, &
 E1=5.625, E2=5.625, HGAP=0.0124856, &
 285 HGAPX=0.0124856, &
 FINT=0.5, TILT=0
 IPM2A37: MONITOR, L=0
 MQC2A37: QUADRUPOLE, L=0.3, K1=-0.501794, TILT=0
 MBT2A37V: GKICK, L=1E-08, DXP=0, DYP=0
 290 IPM2A38: MONITOR, L=0
 MQC2A38: QUADRUPOLE, L=0.3, K1=1.21735, TILT=0
 MBT2A38H: GKICK, L=1E-08, DXP=0, DYP=0
 MQC2A39: QUADRUPOLE, L=0.3, K1=-0.619435, TILT=0
 MBR2A16: SBEND, L=2.00322, ANGLE=11.25, K1=-0.198474, &
 295 E1=5.625, E2=5.625, HGAP=0.0124856, &
 HGAPX=0.0124856, &
 FINT=0.5, TILT=0
 MQC2A40: QUADRUPOLE, L=0.3, K1=0.176963, TILT=0
 MBT2A40V: GKICK, L=1E-08, DXP=0, DYP=0
 300 D345A: DRIFT, L=2.08666
 IPM2R01: MONITOR, L=0
 MQC2R01: QUADRUPOLE, L=0.3, K1=1.07299, TILT=0
 MBT2R01H: GKICK, L=1E-08, DXP=0, DYP=0
 ITV2R01: MONITOR, L=0
 305 D347: DRIFT, L=1.78065
 IPM2R02: MONITOR, L=0
 MQC2R02: QUADRUPOLE, L=0.3, K1=-1.75657, TILT=0
 MBT2R02V: GKICK, L=1E-08, DXP=0, DYP=0
 IPM2R03: MONITOR, L=0
 310 MQC2R03: QUADRUPOLE, L=0.3, K1=2.10719, TILT=0
 MBT2R03H: GKICK, L=1E-08, DXP=0, DYP=0
 D348: DRIFT, L=2.4822
 IPM2R04: MONITOR, L=0
 MQC2R04: QUADRUPOLE, L=0.3, K1=-1.90003, TILT=0
 MBT2R04V: GKICK, L=1E-08, DXP=0, DYP=0
 315 D349: DRIFT, L=4.11076
 MQC2R05: QUADRUPOLE, L=0.3, K1=1.22548, TILT=0
 D350: DRIFT, L=1.07535
 IPM2R06: MONITOR, L=0
 320 MQC2R06: QUADRUPOLE, L=0.3, K1=-2.54764, TILT=0
 MBT2R06H: GKICK, L=1E-08, DXP=0, DYP=0
 D351: DRIFT, L=1.10685
 MQC2R07: QUADRUPOLE, L=0.3, K1=0.602344, TILT=0
 MBT2R07V: GKICK, L=1E-08, DXP=0, DYP=0
 325 ITV2R07: MONITOR, L=0
 D352A: DRIFT, L=0.35385
 MAI2R01: SBEND, L=1.00114, ANGLE=-9.48626, K1=0.290498, &
 E1=-4.74314, E2=-4.74314, HGAP=0.012827, &
 330 HGAPX=0.012827, &
 FINT=0.5, TILT=90
 IPMAI2R01: MONITOR, L=0
 D353: DRIFT, L=3.04159
 MAI2R03: SBEND, L=1.00114, ANGLE=9.48626, K1=-0, &
 E1=4.74314, E2=4.74314, HGAP=0.012827, &
 335 HGAPX=0.012827, &
 FINT=0.5, TILT=90
 D354: DRIFT, L=0.27676
 IPM2R08: MONITOR, L=0
 MQC2R08: QUADRUPOLE, L=0.3, K1=-1.44372, TILT=0
 D355: DRIFT, L=1.75035
 IPM2R09: MONITOR, L=0
 MQC2R09: QUADRUPOLE, L=0.3, K1=1.25103, TILT=0
 MBT2R09H: GKICK, L=1E-08, DXP=0, DYP=0
 MBT2R09V: GKICK, L=1E-08, DXP=0, DYP=0
 345 D356A: DRIFT, L=3.93694
 IPM2R10: MONITOR, L=0
 MQB2R10: QUADRUPOLE, L=0.15, K1=-1.27122, TILT=0
 MBT2R10H: GKICK, L=1E-08, DXP=0, DYP=0
 MBT2R10V: GKICK, L=1E-08, DXP=0, DYP=0
 350 D357: DRIFT, L=0.43439
 MAL2R04: SBEND, L=1.50222, ANGLE=-10.8011, K1=-0.908133, &
 E1=-5.40054, E2=-5.40054, HGAP=0.012827, &
 HGAPX=0.012827, &
 FINT=0.5, TILT=90
 355 D358A: DRIFT, L=5.8571
 MAW2R06: SBEND, L=1.00595, ANGLE=10.8011, K1=-0.0452469, &
 E1=10.8011, E2=0, HGAP=0.01905, &
 HGAPX=0.01905, &
 FINT=0.5, TILT=90
 360
 ARC2: LINE=(MAW2S01, &
 D300A, MAL2S03, D301, IPM2S01, D302, &
 MQB2S01, D303, MBT2S01H, D304, MBT2S01V, &
 D305, ITV2S01, D306A, IPM2S02, D307, &
 365 MQC2S02, D308, MBT2S02H, D304, MBT2S02V, &
 D309, IPM2S03, D307, MQC2S03, D308, &
 MBT2S03H, D304, MBT2S03V, D310, MAI2S04, &
 D311, IPMAI2S06, MAI2S06, D312A, MQC2S04, &
 D313, D314, IPM2S05, D307, MQC2S05, &
 370 D308, MBT2S05H, D304, MBT2S05V, D315, &
 MQC2S06, D308, D304, D317, IPM2S07, &
 D307, MQC2S07, D308, MBT2S07H, D304, &
 MBT2S07V, D318, IPM2S08, D307, MQC2S08, &

375 D308, MBT2S08H, D304, MBT2S08V, D318, &
IPM2S09, D307, MQC2S09, D308, MBT2S09H, &
D304, MBT2S09V, D318, IPM2S10, D307, &
MQC2S10, D308, MBT2S10H, MAT2S10H, D304, &
MBT2S10V, D305, D319, IPM2E01, D302, &
MQB2E01, D303, MBT2E01H, D304, MBT2E01V, &
380 D305, IHA2E01, D320, MBW2E01, D321, &
MBX2E02, D321, MBW2E03, D322, IPM2E02, &
D302, MQB2E02, D303, MBT2E02H, D304, &
MBT2E02V, D323, ITV2E02, D324, D319A, &
IHA2E03, D319B, IPM2E03, D302, MQB2E03, &
385 D303, MBT2E03H, D304, MBT2E03V, D325, &
IPM2A01, D307, MQC2A01, D308, MBT2A01H, &
D304, MBT2A01V, D305, ITV2A01, D326, &
MQC2A02, D327, MBR2A01, D328, IPM2A03, &
D307, MQC2A03, D316, MBT2A03V, D329, &
390 D372, D330, IPM2A04, D307, MQC2A04, &
D308, MBT2A04H, D331, D332, D372, &
D330, IPM2A05, D307, MQC2A05, D316, &
MBT2A05V, D333, MBR2A02, D328, IPM2A06, &
D307, MQC2A06, D308, MBT2A06H, D334, &
395 D335, MBR2A03, D328, IPM2A07, D307, &
MQC2A07, D316, MBT2A07V, D336, IPM2A08, &
D307, MQC2A08, D308, MBT2A08H, D337, &
IPM2A09, D307, MQC2A09, D316, MBT2A09V, &
D333, MBR2A04, D338, IPM2A10, D307, &
400 D371, D339, IPM2A11, D307, MQC2A11, &
D308, MBT2A11H, D334, ITV2A11, D326, &
D371, D327, MBR2A05, D328, D307, &
MQC2A13, D316, MBT2A13V, D329, D372, &
D330, IPM2A14, D307, MQC2A14, D308, &
405 MBT2A14H, D340, D372, D341, IPM2A15, &
MQC2A15, D316, MBT2A15V, D333, MBR2A06, &
D328, IPM2A16, D307, MQC2A16, D316, &
MBT2A16H, D333, MBR2A07, D342, IPM2A17, &
MQC2A17, D316, MBT2A17V, D336, IPM2A18, &
410 D307, MQC2A18, D308, MBT2A18H, D337, &
D307, MQC2A19, D316, MBT2A19V, D333, &
MBR2A08, D343, D371, D339, IPM2A21, &
D307, MQC2A21, D308, MBT2A21H, D334, &
ITV2A21, IHA2A21, D326, D371, D327, &
415 MBR2A09, D328, D307, MQC2A23, D316, &
MBT2A23V, D329, D372, D330, IPM2A24, &
D307, MQC2A24, D308, MBT2A24H, D340, &
D372, D341, IPM2A25, MQC2A25, D316, &
MBT2A25V, D333, MBR2A10, D328, IPM2A26, &
420 D307, MQC2A26, D316, MBT2A26H, D333, &
MBR2A11, D342, IPM2A27, MQC2A27, D316, &
MBT2A27V, D336, IPM2A28, D307, MQC2A28, &
D308, MBT2A28H, D337, D307, MQC2A29, &
D344, MBR2A12, D343, D371, D316, &
425 MBT2A30V, D345, IPM2A31, D307, MQC2A31, &
D308, MBT2A31H, D334, ITV2A31, D326, &
D371, D327, MBR2A13, D328, D307, &
MQC2A33, D316, MBT2A33V, D329, D372, &
D330, IPM2A34, D307, MQC2A34, D308, &
430 MBT2A34H, D340, D372, D341, IPM2A35, &
MQC2A35, D316, MBT2A35V, D333, MBR2A14, &
D328, IPM2A36, D307, MQC2A36, D308, &
MBT2A36H, D346, MBR2A15, D342, IPM2A37, &
MQC2A37, D316, MBT2A37V, D336, IPM2A38, &
435 D307, MQC2A38, D308, MBT2A38H, D337, &
D307, MQC2A39, D344, MBR2A16, D343, &
MQC2A40, D316, MBT2A40V, D345A, IPM2R01, &
D307, MQC2R01, D308, MBT2R01H, D334, &
ITV2R01, D347, IPM2R02, D307, MQC2R02, &
440 D316, MBT2R02V, D318, IPM2R03, D307, &
MQC2R03, D308, MBT2R03H, D348, IPM2R04, &
D307, MQC2R04, D316, MBT2R04V, D349, &
MQC2R05, D350, IPM2R06, D307, MQC2R06, &
D308, MBT2R06H, D351, MQC2R07, D316, &
445 MBT2R07V, D305, ITV2R07, D352A, MAI2R01, &
IPMAI2R01, D353, MAI2R03, D354, IPM2R08, &
D307, MQC2R08, D355, IPM2R09, D307, &
MQC2R09, D308, MBT2R09H, D304, MBT2R09V, &
D356A, IPM2R10, D302, MQB2R10, D303, &
450 MBT2R10H, D304, MBT2R10V, D357, MAL2R04, &
D358A, MAW2R06)
USE, ARC2
DIMAT

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* DIMAD PROGRAM : LAST MODIFIED ON May 27, 2005 *

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TOTAL LENGTH OF MACHINE IS: 404.337 METERS

IN THIS RUN THERE ARE :
 273 DISTINCT ELEMENTS. ALLOCATED MXELMD : 274
 448 ELEMENTS IN MACHINE. ALLOCATED MXPOS_D : 450
 84 MATRICES DEFINED. ALLOCATED MAXMAT : 85
 1724 VALUES IN ELDAT. ALLOCATED MAXDAT : 1724
 0 LCAVs. ALLOCATED MX_LCAV : 1

1

OPERATION LIST ,

MACHINE

1 2 1 0 1 1 1
 24.5796 2.94558 0 0
 6.6062 -1.20752 0 0
 0,

ELEMENT	#	BETAX	ALPHAX	BETAY	ALPHAY	ETAX	ETAPX	ETAY	ETAPY	NUX	NUY	ACC_LEN
\$\$INITIAL\$\$	0	24.5796	2.9456	6.6062	-1.2075	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.000
MAW2S01	1	19.1143	3.1762	9.1054	-1.5716	0.0000	0.0000	0.0945	0.1907	0.00739	0.02057	1.006
D300A	2	1.8084	-0.2215	40.5891	-3.8037	0.0000	0.0000	1.2116	0.1907	0.24354	0.06985	6.863
MAL2S03	3	3.7945	-1.0917	51.2513	-3.2593	0.0000	0.0000	1.3346	-0.0264	0.34134	0.07503	8.365
D301	4	4.8815	-1.3489	54.1993	-3.3603	0.0000	0.0000	1.3229	-0.0264	0.35783	0.07637	8.811
IPM2S01	5	4.8815	-1.3489	54.1993	-3.3603	0.0000	0.0000	1.3229	-0.0264	0.35783	0.07637	8.811
D302	6	5.7417	-1.5220	56.2335	-3.4282	0.0000	0.0000	1.3149	-0.0264	0.36685	0.07724	9.110
MQB2S01	7	6.3974	-2.8932	55.5515	7.9283	0.0000	0.0000	1.2910	-0.2916	0.37081	0.07766	9.260
D303	8	8.0543	-3.2860	51.3823	7.6200	0.0000	0.0000	1.2128	-0.2916	0.37675	0.07846	9.528
MBT2S01H	9	8.0543	-3.2860	51.3823	7.6200	0.0000	0.0000	1.2128	-0.2916	0.37675	0.07846	9.528
D304	10	9.3993	-3.5732	48.4380	7.3946	0.0000	0.0000	1.1557	-0.2916	0.38034	0.07909	9.725
MBT2S01V	11	9.3993	-3.5732	48.4380	7.3946	0.0000	0.0000	1.1557	-0.2916	0.38034	0.07909	9.725
D305	12	13.3858	-4.3136	41.2564	6.8136	0.0000	0.0000	1.0083	-0.2916	0.38751	0.08089	10.230
ITV2S01	13	13.3858	-4.3136	41.2564	6.8136	0.0000	0.0000	1.0083	-0.2916	0.38751	0.08089	10.230
D306A	14	53.3516	-8.7833	10.3767	3.3058	0.0000	0.0000	0.1185	-0.2916	0.40573	0.10445	13.282
IPM2S02	15	53.3516	-8.7833	10.3767	3.3058	0.0000	0.0000	0.1185	-0.2916	0.40573	0.10445	13.282
D307	16	57.3719	-9.1124	8.9494	3.0475	0.0000	0.0000	0.0530	-0.2916	0.40637	0.10816	13.506
MQC2S02	17	56.3372	12.4306	8.1350	-0.2315	0.0000	0.0000	-0.0331	-0.2879	0.40720	0.11386	13.806
D308	18	51.6383	11.8974	8.2292	-0.2565	0.0000	0.0000	-0.0887	-0.2879	0.40777	0.11762	13.999
MBT2S02H	19	51.6383	11.8974	8.2292	-0.2565	0.0000	0.0000	-0.0887	-0.2879	0.40777	0.11762	13.999
D304	20	47.0785	11.3561	8.3348	-0.2819	0.0000	0.0000	-0.1452	-0.2879	0.40840	0.12139	14.195
MBT2S02V	21	47.0785	11.3561	8.3348	-0.2819	0.0000	0.0000	-0.1452	-0.2879	0.40840	0.12139	14.195
D309	22	20.0071	7.3641	9.4209	-0.4692	0.0000	0.0000	-0.5615	-0.2879	0.41590	0.14748	15.642
IPM2S03	23	20.0071	7.3641	9.4209	-0.4692	0.0000	0.0000	-0.5615	-0.2879	0.41590	0.14748	15.642
D307	24	16.8377	6.7439	9.6383	-0.4983	0.0000	0.0000	-0.6261	-0.2879	0.41785	0.15123	15.866
MQC2S03	25	15.0042	-0.3660	8.7074	3.4637	0.0000	0.0000	-0.6698	-0.0001	0.42092	0.15633	16.166
D308	26	15.1484	-0.3806	7.4250	3.1754	0.0000	0.0000	-0.6698	-0.0001	0.42296	0.16015	16.359
MBT2S03H	27	15.1484	-0.3806	7.4250	3.1754	0.0000	0.0000	-0.6698	-0.0001	0.42296	0.16015	16.359
D304	28	15.3006	-0.3954	6.2371	2.8827	0.0000	0.0000	-0.6698	-0.0001	0.42501	0.16474	16.555
MBT2S03V	29	15.3006	-0.3954	6.2371	2.8827	0.0000	0.0000	-0.6698	-0.0001	0.42501	0.16474	16.555
D310	30	15.7678	-0.4378	3.4735	2.0457	0.0000	0.0000	-0.6698	-0.0001	0.43076	0.18396	17.116
MAI2S04	31	16.2894	-0.0761	0.8786	0.5581	0.0000	0.0000	-0.5872	0.1659	0.44071	0.28058	18.117
D311	32	17.3238	-0.2640	11.2926	-3.9820	0.0000	0.0000	-0.0826	0.1659	0.46968	0.57243	21.159
IPMAI2S0	33	17.3238	-0.2640	11.2926	-3.9820	0.0000	0.0000	-0.0826	0.1659	0.46968	0.57243	21.159
MAI2S04	34	17.5188	0.0716	20.6410	-5.3857	0.0000	0.0000	0.0001	0.0001	0.47884	0.58282	22.160
D312A	35	17.4760	-0.0517	50.4943	-8.5090	0.0000	0.0000	0.0002	0.0001	0.49843	0.59342	24.309
MQC2S04	36	19.3665	-6.4637	50.3867	8.8553	0.0000	0.0000	0.0002	0.0000	0.50107	0.59435	24.609
D313	37	32.7009	-8.4400	35.8028	7.4451	0.0000	0.0000	0.0002	0.0000	0.50673	0.59771	25.503
D314	38	35.8223	-8.8391	33.1643	7.1604	0.0000	0.0000	0.0002	0.0000	0.50757	0.59854	25.684
IPM2S05	39	35.8223	-8.8391	33.1643	7.1604	0.0000	0.0000	0.0002	0.0000	0.50757	0.59854	25.684
D307	40	39.9052	-9.3353	30.0267	6.8063	0.0000	0.0000	0.0002	0.0000	0.50852	0.59967	25.909
MQC2S05	41	42.5277	0.8118	28.1747	-0.4803	0.0000	0.0000	0.0002	0.0000	0.50966	0.60134	26.209
D308	42	42.2156	0.8042	28.3618	-0.4888	0.0000	0.0000	0.0002	0.0000	0.51039	0.60242	26.402
MBT2S05H	43	42.2156	0.8042	28.3618	-0.4888	0.0000	0.0000	0.0002	0.0000	0.51039	0.60242	26.402
D304	44	41.9017	0.7966	28.5552	-0.4973	0.0000	0.0000	0.0002	0.0000	0.51113	0.60352	26.598
MBT2S05V	45	41.9017	0.7966	28.5552	-0.4973	0.0000	0.0000	0.0002	0.0000	0.51113	0.60352	26.598
D315	46	40.4830	0.7611	29.4973	-0.5371	0.0000	0.0000	0.0003	0.0000	0.51465	0.60852	27.509
MQC2S06	47	40.0413	0.7115	29.8151	-0.5220	0.0000	0.0000	0.0003	0.0000	0.51584	0.61013	27.809
D308	48	39.7679	0.7042	30.0184	-0.5303	0.0000	0.0000	0.0003	0.0000	0.51661	0.61115	28.002
D304	49	39.4932	0.6968	30.2279	-0.5386	0.0000	0.0000	0.0003	0.0000	0.51740	0.61219	28.198
D317	50	32.9795	0.4905	37.4223	-0.7728	0.0000	0.0000	0.0005	0.0000	0.54168	0.63827	33.684
IPM2S07	51	32.9795	0.4905	37.4223	-0.7728	0.0000	0.0000	0.0005	0.0000	0.54168	0.63827	33.684
D307	52	32.7611	0.4820	37.7717	-0.7824	0.0000	0.0000	0.0005	0.0000	0.54277	0.63922	33.909
MQC2S07	53	32.4687	0.4926	38.2527	-0.8210	0.0000	0.0000	0.0005	0.0000	0.54423	0.64047	34.209
D308	54	32.2798	0.4852	38.5714	-0.8294	0.0000	0.0000	0.0005	0.0000	0.54518	0.64127	34.402
MBT2S07H	55	32.2798	0.4852	38.5714	-0.8294	0.0000	0.0000	0.0005	0.0000	0.54518	0.64127	34.402
D304	56	32.0910	0.4777	38.8984	-0.8380	0.0000	0.0000	0.0005	0.0000	0.54615	0.64208	34.598
MBT2S07V	57	32.0910	0.4777	38.8984	-0.8380	0.0000	0.0000	0.0005	0.0000	0.54615	0.64208	34.598
D318	58	30.1066	0.3902	42.9586	-0.9380	0.0000	0.0000	0.0006	0.0000	0.55787	0.65099	36.884
IPM2S08	59	30.1066	0.3902	42.9586	-0.9380	0.0000	0.0000	0.0006	0.0000	0.55787	0.65099	36.884
D307	60	29.9332	0.3816	43.3823	-0.9479	0.0000	0.0000	0.0006	0.0000	0.55906	0.65181	37.109
MQC2S08	61	30.5423	-2.4307	42.7510	3.0327	0.0000	0.0000	0.0006	0.0000	0.56065	0.65292	37.409
D308	62	31.4897	-2.4744	41.5884	2.9866	0.0000	0.0000	0.0006	0.0000	0.56164	0.65365	37.602
MBT2S08H	63	31.4897	-2.4744	41.5884	2.9866	0.0000	0.0000	0.0006	0.0000	0.56164	0.65365	37.602
D304	64	32.4688	-2.5187	40.4263	2.9398	0.0000	0.0000	0.0006	0.0000	0.56261	0.65441	37.798
MBT2S08V	65	32.4688	-2.5187	40.4263	2.9398	0.0000	0.0000	0.0006	0.0000	0.56261	0.65441	37.798
D318	66	45.1671	-3.0358	28.2312	2.3946	0.0000	0.0000	0.0005	0.0000	0.57212	0.66519	40.084
IPM2S09	67	45.1671	-3.0358	28.2312	2.3946	0.0000	0.0000	0.0005	0.0000	0.57212	0.66519	40.084
D307	68	46.5424	-3.0866	27.1674	2.3410	0.0000	0.0000	0.0005	0.0000	0.57290	0.66648	40.309
MQC2S09	69	48.4126	-3.1473	25.7854	2.2656	0.0000	0.0000	0.0005	0.0000	0.57391	0.66828	40.609
D308	70	49.6368	-3.1908	24.9191	2.2197	0.0000	0.0000	0.0005	0.0000	0.57453	0.66949	40.802
MBT2S09H	71	49.6368	-3.1908	24.9191	2.2197	0.0000	0.0000	0.0005	0.0000	0.57453	0.66949	40.802
D304	72	50.8969	-3.2350	24.0578	2.1730	0.0000	0.0000	0.0005	0.0000	0.57516	0.67077	40.998
MBT2S09V	73	50.8969	-3.2350	24.0578	2.1730	0.0000	0.0000	0.0005	0.0000	0.57516	0.67077	40.998
D318	74	66.8652	-3.7499	15.3653	1.6293	0.0000	0.0000	0.0005	0.0000	0.58139	0.68974	43.284
IPM2S10	75	66.8652	-3.7499	15.3653	1.6293	0.0000	0.0000	0.0005	0.0000	0.58139	0.68974	43.284
D307	76	68.5614	-3.8005	14.6453	1.5758	0.0000	0.0000	0.0005	0.0000	0.58192	0.69212	43.509
MQC2S10	77	68.9256	2.5977	14.1159	0.2052	0.0000	0.0000	0.0005	0.0000	0.58261	0.69546	43.809
D308	78	67.9264	2.5759	14.0394	0.1910	0.0000	0.0000	0.0005	0.0000	0.58306	0.69764	44.002

MBT2S10H	79	67.9264	2.5759	14.0394	0.1910	0.0000	0.0000	0.0005	0.0000	0.58306	0.69764	44.002
MAT2S10H	80	67.9264	2.5759	14.0394	0.1910	0.0000	0.0000	0.0005	0.0000	0.58306	0.69764	44.002
D304	81	66.9205	2.5539	13.9673	0.1765	0.0000	0.0000	0.0005	0.0000	0.58353	0.69987	44.198
MBT2S10V	82	66.9205	2.5539	13.9673	0.1765	0.0000	0.0000	0.0005	0.0000	0.58353	0.69987	44.198
D305	83	64.3674	2.4971	13.8077	0.1392	0.0000	0.0000	0.0005	0.0000	0.58475	0.70566	44.703
D319	84	14.5367	0.7963	26.4977	-0.9779	0.0000	0.0000	0.0009	0.0000	0.66710	0.85089	59.834
IPM2E01	85	14.5367	0.7963	26.4977	-0.9779	0.0000	0.0000	0.0009	0.0000	0.66710	0.85089	59.834
D302	86	14.0696	0.7626	27.0904	-1.0000	0.0000	0.0000	0.0009	0.0000	0.67044	0.85267	60.134
MQB2E01	87	14.0095	-0.3602	27.0688	1.1429	0.0000	0.0000	0.0009	0.0000	0.67214	0.85355	60.284
D303	88	14.2085	-0.3819	26.4620	1.1201	0.0000	0.0000	0.0009	0.0000	0.67517	0.85515	60.552
MBT2E01H	89	14.2085	-0.3819	26.4620	1.1201	0.0000	0.0000	0.0009	0.0000	0.67517	0.85515	60.552
D304	90	14.3614	-0.3977	26.0260	1.1034	0.0000	0.0000	0.0009	0.0000	0.67735	0.85633	60.748
MBT2E01V	91	14.3614	-0.3977	26.0260	1.1034	0.0000	0.0000	0.0009	0.0000	0.67735	0.85633	60.748
D305	92	14.7840	-0.4384	24.9323	1.0603	0.0000	0.0000	0.0008	0.0000	0.68287	0.85949	61.253
IHA2E01	93	14.7840	-0.4384	24.9323	1.0603	0.0000	0.0000	0.0008	0.0000	0.68287	0.85949	61.253
D320	94	15.2237	-0.4772	23.9334	1.0194	0.0000	0.0000	0.0008	0.0000	0.68797	0.86262	61.734
MBW2E01	95	15.6957	-0.5175	22.9351	1.0522	-0.0101	-0.0406	0.0008	0.0000	0.69312	0.86602	62.234
D321	96	24.3272	-0.9824	13.8677	0.5235	-0.2435	-0.0406	0.0005	0.0000	0.74069	0.91831	67.989
MBX2E02	97	26.3709	-1.0631	12.8248	0.5157	-0.2435	0.0406	0.0005	-0.0001	0.74697	0.93026	68.989
D321	98	41.2814	-1.5279	10.1583	-0.0523	-0.0101	0.0406	0.0002	-0.0001	0.77488	1.01436	74.744
MBW2E03	99	42.8987	-1.5683	10.2019	-0.0682	0.0000	0.0000	0.0001	-0.0001	0.77677	1.02219	75.244
D322	100	46.6135	-1.6610	10.4891	-0.1815	0.0000	0.0000	0.0001	-0.0001	0.78086	1.03992	76.394
IPM2E02	101	46.6135	-1.6610	10.4891	-0.1815	0.0000	0.0000	0.0001	-0.0001	0.78086	1.03992	76.394
D302	102	47.6162	-1.6852	10.6067	-0.2110	0.0000	0.0000	0.0001	-0.0001	0.78187	1.04444	76.694
MQB2E02	103	47.5137	-1.6852	10.8089	-1.1422	0.0000	0.0000	0.0001	0.0000	0.78238	1.04668	76.844
D303	104	46.2550	2.3284	11.4367	-1.1993	0.0000	0.0000	0.0000	0.0000	0.78329	1.05052	77.112
MBT2E02H	105	46.2550	2.3284	11.4367	-1.1993	0.0000	0.0000	0.0000	0.0000	0.78329	1.05052	77.112
D304	106	45.3471	2.3012	11.9153	-1.2412	0.0000	0.0000	0.0000	0.0000	0.78397	1.05319	77.308
MBT2E02V	107	45.3471	2.3012	11.9153	-1.2412	0.0000	0.0000	0.0000	0.0000	0.78397	1.05319	77.308
D323	108	43.6252	2.2487	12.8853	-1.3218	0.0000	0.0000	0.0000	0.0000	0.78532	1.05805	77.686
IPM2E02	109	43.6252	2.2487	12.8853	-1.3218	0.0000	0.0000	0.0000	0.0000	0.78532	1.05805	77.686
D324	110	43.0563	2.2310	13.2245	-1.3489	0.0000	0.0000	0.0000	0.0000	0.78579	1.05960	77.813
D319A	111	7.3822	0.1577	101.0677	-4.5331	0.0000	0.0000	-0.0007	0.0000	0.94383	1.12657	92.748
IHA2E03	112	7.3822	0.1577	101.0677	-4.5331	0.0000	0.0000	-0.0007	0.0000	0.94383	1.12657	92.748
D319B	113	7.3256	0.1304	102.8560	-4.5749	0.0000	0.0000	-0.0007	0.0000	0.94808	1.12688	92.944
IPM2E03	114	7.3256	0.1304	102.8560	-4.5749	0.0000	0.0000	-0.0007	0.0000	0.94808	1.12688	92.944
D302	115	7.2599	0.0888	105.6169	-4.6388	0.0000	0.0000	-0.0007	0.0000	0.95462	1.12734	93.244
MQB2E03	116	7.3462	-0.6673	105.4134	5.9885	0.0000	0.0000	-0.0007	0.0000	0.95790	1.12756	93.394
D303	117	7.7182	-0.7200	102.2270	5.8947	0.0000	0.0000	-0.0007	0.0000	0.96357	1.12798	93.662
MBT2E03H	118	7.7182	-0.7200	102.2270	5.8947	0.0000	0.0000	-0.0007	0.0000	0.96357	1.12798	93.662
D304	119	8.0082	-0.7586	99.9286	5.8261	0.0000	0.0000	-0.0007	0.0000	0.96754	1.12828	93.858
MBT2E03V	120	8.0082	-0.7586	99.9286	5.8261	0.0000	0.0000	-0.0007	0.0000	0.96754	1.12828	93.858
D325	121	79.8428	-3.8351	3.2260	0.3579	0.0000	0.0000	-0.0003	0.0000	1.07365	1.29653	109.495
IPM2A01	122	79.8428	-3.8351	3.2260	0.3579	0.0000	0.0000	-0.0003	0.0000	1.07365	1.29653	109.495
D307	123	81.5758	-3.8793	3.0828	0.2793	0.0000	0.0000	-0.0003	0.0000	1.07409	1.30788	109.720
MQC2A01	124	80.9823	5.8341	3.0546	-0.1843	0.0000	0.0000	-0.0003	0.0000	1.07468	1.32356	110.020
D308	125	78.7447	5.7505	3.1385	-0.2497	0.0000	0.0000	-0.0003	0.0000	1.07506	1.33349	110.213
MBT2A01H	126	78.7447	5.7505	3.1385	-0.2497	0.0000	0.0000	-0.0003	0.0000	1.07506	1.33349	110.213
D304	127	76.5061	5.6657	3.2494	-0.3161	0.0000	0.0000	-0.0003	0.0000	1.07546	1.34327	110.409
MBT2A01V	128	76.5061	5.6657	3.2494	-0.3161	0.0000	0.0000	-0.0003	0.0000	1.07546	1.34327	110.409
D305	129	70.8891	5.4470	3.6554	-0.4871	0.0000	0.0000	-0.0003	0.0000	1.07656	1.36670	110.915
IPM2A01	130	70.8891	5.4470	3.6554	-0.4871	0.0000	0.0000	-0.0003	0.0000	1.07656	1.36670	110.915
D326	131	52.6406	4.6663	6.5155	-1.0979	0.0000	0.0000	-0.0003	0.0000	1.08126	1.42697	112.719
MQC2A02	132	49.6531	5.2773	7.2358	-1.3070	0.0000	0.0000	-0.0003	0.0000	1.08219	1.43393	113.019
D327	133	32.7705	4.2474	13.0449	-1.9704	0.0000	0.0000	-0.0004	0.0000	1.08919	1.46313	114.792
MBR2A01	134	17.9945	3.1574	21.9382	-2.3957	0.1967	-0.0004	0.0000	0.0000	1.10223	1.48205	116.795
D328	135	1.8845	0.3857	50.0754	-3.7925	1.0904	0.1967	-0.0005	0.0000	1.24483	1.50395	121.342
IPM2A03	136	1.8845	0.3857	50.0754	-3.7925	1.0904	0.1967	-0.0005	0.0000	1.24483	1.50395	121.342
D307	137	1.7420	0.2487	51.7949	-3.8615	1.1346	0.1967	-0.0005	0.0000	1.26462	1.50465	121.566
MQC2A03	138	1.7419	-0.2486	51.2195	5.7437	1.2260	0.4151	-0.0004	0.0001	1.29242	1.50557	121.866
D316	139	2.0279	-0.4859	46.8487	5.4853	1.3875	0.4151	-0.0004	0.0001	1.32562	1.50684	122.256
MBT2A03V	140	2.0279	-0.4859	46.8487	5.4853	1.3875	0.4151	-0.0004	0.0001	1.32562	1.50684	122.256
D329	141	9.1356	-2.1374	21.9962	3.6874	2.5121	0.4151	-0.0002	0.0001	1.43399	1.52029	124.965
D372	142	9.7905	-2.2289	20.9049	3.5878	2.5743	0.4151	-0.0002	0.0001	1.43651	1.52140	125.115
D330	143	10.7631	-2.3581	19.4134	3.4471	2.6623	0.4151	-0.0002	0.0001	1.43980	1.52307	125.327
IPM2A04	144	10.7631	-2.3581	19.4134	3.4471	2.6623	0.4151	-0.0002	0.0001	1.43980	1.52307	125.327
D307	145	11.8533	-2.4951	17.8981	3.2981	2.7556	0.4151	-0.0002	0.0001	1.44297	1.52499	125.552
MQC2A04	146	12.0443	1.8817	17.8670	-3.1909	2.7283	-0.5956	-0.0002	0.0000	1.44689	1.52771	125.852
D308	147	11.3315	1.8089	19.1230	-3.3118	2.6132	-0.5956	-0.0002	0.0000	1.44952	1.52937	126.045
MBT2A04H	148	11.3315	1.8089	19.1230	-3.3118	2.6132	-0.5956	-0.0002	0.0000	1.44952	1.52937	126.045
D331	149	9.8848	1.6513	22.0017	-3.5734	2.3642	-0.5956	-0.0002	0.0000	1.45581	1.53262	126.463
D332	150	4.0026	0.7135	43.6506	-5.1301	0.8829	-0.5956	-0.0001	0.0000	1.52052	1.54541	128.950
D372	151	3.7971	0.6569	45.2037	-5.2240	0.7935	-0.5956	-0.0001	0.0000	1.52664	1.54594	129.100
D330	152	3.5355	0.5770	47.4470	-5.3567	0.6673	-0.5956	-0.0001	0.0000	1.53586	1.54667	129.312
IPM2A05	153	3.5355	0.5770	47.4470	-5.3567	0.6673	-0.5956	-0.0001	0.0000	1.53586	1.54667	129.312
D307	154	3.2952	0.4923	49.8853	-5.4972	0.5335	-0.5956	-0.0001	0.0000	1.54634	1.54741	129.537
MQC2A05	155	3.1764	-0.0902	50.9215	2.0953	0.3656	-0.5281	-0.0001	0.0000	1.56123	1.54835	129.837
D316	156	3.2947	-0.2138	49.3064	2.0541	0.1600	-0.5281	-0.0001	0.0000	1.58043	1.54958	130.226
MBT2A05V	157	3.2947	-0.2138	49.3064	2.0541	0.1600	-0.5281	-0.0001	0.0000	1.58043	1.54958	130.226
D333	158	11.2636	-1.6047	33.3359	1.5902	-2.1545	-0.5281	0.0000	0.0000	1.70821	1.56682	134.609
MBR2A02	159	18.7869	-2.1656	26.4686	1.7812	-3.0002	-0.3211	0.0001	0.0000	1.73003	1.57758	136.612
D328	160	44.7418	-3.5426	13.5298	1.0644	-4.4603	-0.3211	0.0002	0.0000	1.75509	1.61620	141.159
IPM2A06	161	44.7418	-3.5426	13.5298	1.0644	-4.4603	-0.3211	0.0002	0.0000	1.75509	1.61620	141.159
D307	162	46.3488	-3.6107	13.0595								

D307	183	3.9040	0.7306	39.3614	-3.5700	2.3072	-0.6439	0.0010	0.0001	2.17859	1.73667	161.200
MQC2A09	184	3.6473	0.1363	39.9307	1.6976	2.1588	-0.3484	0.0010	0.0000	2.19134	1.73787	161.500
D316	185	3.5835	0.0276	38.6238	1.6598	2.0232	-0.3484	0.0010	0.0000	2.20850	1.73945	161.890
MBT2A09V	186	3.5835	0.0276	38.6238	1.6598	2.0232	-0.3484	0.0010	0.0000	2.20850	1.73945	161.890
D333	187	8.7051	-1.1963	25.9433	1.2338	0.4966	-0.3484	0.0008	0.0000	2.35208	1.76155	166.272
MBR2A04	188	14.4799	-1.6977	20.6736	1.3533	-0.0019	-0.1522	0.0008	0.0000	2.38041	1.77535	168.275
D338	189	20.3778	-2.1127	16.8123	1.1413	-0.2375	-0.1522	0.0007	0.0000	2.39477	1.78858	169.823
IPM2A10	190	20.3778	-2.1127	16.8123	1.1413	-0.2375	-0.1522	0.0007	0.0000	2.39477	1.78858	169.823
D307	191	21.3406	-2.1729	16.3064	1.1106	-0.2717	-0.1522	0.0007	0.0000	2.39648	1.79074	170.048
D371	192	22.6685	-2.2534	15.6524	1.0695	-0.3173	-0.1522	0.0007	0.0000	2.39865	1.79373	170.348
D339	193	35.4619	-2.9168	11.1982	0.7306	-0.6939	-0.1522	0.0006	0.0000	2.41256	1.82365	172.822
IPM2A11	194	35.4619	-2.9168	11.1982	0.7306	-0.6939	-0.1522	0.0006	0.0000	2.41256	1.82365	172.822
D307	195	36.7859	-2.9770	10.8769	0.6998	-0.7281	-0.1522	0.0006	0.0000	2.41355	1.82689	173.047
MQC2A11	196	36.8732	2.6906	10.9652	-0.9987	-0.7567	-0.0378	0.0006	0.0000	2.41484	1.83130	173.347
D308	197	35.8422	2.6475	11.3578	-1.0339	-0.7640	-0.0378	0.0006	0.0000	2.41568	1.83405	173.540
MBT2A11H	198	35.8422	2.6475	11.3578	-1.0339	-0.7640	-0.0378	0.0006	0.0000	2.41568	1.83405	173.540
D334	199	32.2375	2.4907	12.8980	-1.1616	-0.7905	-0.0378	0.0006	0.0000	2.41897	1.84328	174.242
ITV2A11	200	32.2375	2.4907	12.8980	-1.1616	-0.7905	-0.0378	0.0006	0.0000	2.41897	1.84328	174.242
D326	201	23.9766	2.0875	17.6833	-1.4903	-0.8587	-0.0378	0.0007	0.0000	2.42931	1.86234	176.046
D371	202	22.7442	2.0205	18.5939	-1.5450	-0.8701	-0.0378	0.0007	0.0000	2.43135	1.86498	176.346
D327	203	16.2838	1.6244	24.6430	-1.8678	-0.9370	-0.0378	0.0008	0.0000	2.44603	1.87817	178.118
MBR2A05	204	10.6091	1.2194	32.0065	-1.7472	-0.8126	0.1627	0.0009	0.0000	2.47019	1.88955	180.122
D328	205	4.3665	0.1535	50.5127	-2.3229	-0.0729	0.1627	0.0010	0.0000	2.58663	1.90758	184.669
D307	206	4.3094	0.1009	51.5628	-2.3513	-0.0364	0.1627	0.0010	0.0000	2.59487	1.90829	184.893
MQC2A13	207	4.4935	-0.7252	50.3318	6.3840	0.0119	0.1606	0.0010	-0.0001	2.60583	1.90921	185.193
D316	208	5.1095	-0.8574	45.4877	6.0610	0.0744	0.1606	0.0010	-0.0001	2.61877	1.91051	185.582
MBT2A13V	209	5.1095	-0.8574	45.4877	6.0610	0.0744	0.1606	0.0010	-0.0001	2.61877	1.91051	185.582
D329	210	12.2483	-1.7774	18.7341	3.8134	0.5096	0.1606	0.0006	-0.0001	2.67440	1.92530	188.292
D372	211	12.7892	-1.8284	17.6088	3.6889	0.5337	0.1606	0.0006	-0.0001	2.67631	1.92662	188.442
D330	212	13.5798	-1.9004	16.0818	3.5130	0.5677	0.1606	0.0005	-0.0001	2.67887	1.92862	188.654
IPM2A14	213	13.5798	-1.9004	16.0818	3.5130	0.5677	0.1606	0.0005	-0.0001	2.67887	1.92862	188.654
D307	214	14.4507	-1.9767	14.5453	3.3267	0.6038	0.1606	0.0005	-0.0001	2.68142	1.93096	188.879
MQC2A14	215	14.2309	2.6857	13.9551	-1.2961	0.6221	-0.0397	0.0005	0.0000	2.68470	1.93437	189.179
D308	216	13.2149	2.5742	14.4630	-1.3332	0.6144	-0.0397	0.0005	0.0000	2.68694	1.93653	189.372
MBT2A14H	217	13.2149	2.5742	14.4630	-1.3332	0.6144	-0.0397	0.0005	0.0000	2.68694	1.93653	189.372
D340	218	3.1282	0.8974	23.8313	-1.8912	0.4992	-0.0397	0.0005	0.0000	2.76157	1.96154	192.277
D372	219	2.8720	0.8108	24.4030	-1.9200	0.4932	-0.0397	0.0005	0.0000	2.76954	1.96253	192.427
D341	220	2.2739	0.5588	26.1164	-2.0038	0.4759	-0.0397	0.0005	0.0000	2.79687	1.96528	192.864
IPM2A15	221	2.2739	0.5588	26.1164	-2.0038	0.4759	-0.0397	0.0005	0.0000	2.79687	1.96528	192.864
MQC2A15	222	2.0641	0.1487	26.4005	1.0679	0.4723	0.0157	0.0005	0.0000	2.81911	1.96709	193.164
D316	223	2.0234	-0.0441	25.5814	1.0364	0.4784	0.0157	0.0005	0.0000	2.84961	1.96948	193.553
MBT2A15V	224	2.0234	-0.0441	25.5814	1.0364	0.4784	0.0157	0.0005	0.0000	2.84961	1.96948	193.553
D333	225	11.9197	-2.2141	18.0551	0.6811	0.5473	0.0157	0.0003	0.0000	3.02508	2.00216	197.935
MBR2A06	226	22.5544	-3.1153	15.1431	0.7486	0.7723	0.2103	0.0002	-0.0001	3.04442	2.02151	199.939
D328	227	60.6975	-5.2734	10.4662	0.2800	1.7285	0.2103	-0.0001	-0.0001	3.06403	2.08032	204.486
IPM2A16	228	60.6975	-5.2734	10.4662	0.2800	1.7285	0.2103	-0.0001	-0.0001	3.06403	2.08032	204.486
D307	229	63.0908	-5.3801	10.3455	0.2569	1.7757	0.2103	-0.0001	-0.0001	3.06460	2.08376	204.710
MQC2A16	230	64.1265	1.9678	10.5598	-0.9792	1.8078	0.0028	-0.0001	-0.0001	3.06535	2.08836	205.010
D316	231	62.6061	1.9382	11.3502	-1.0514	1.8089	0.0028	-0.0001	-0.0001	3.06633	2.09402	205.399
MBT2A16H	232	62.6061	1.9382	11.3502	-1.0514	1.8089	0.0028	-0.0001	-0.0001	3.06633	2.09402	205.399
D333	233	47.0777	1.6052	24.1278	-1.8643	1.8210	0.0028	-0.0004	-0.0001	3.07919	2.13667	209.782
MBR2A07	234	40.6611	1.6103	31.5064	-1.7581	2.0155	0.1925	-0.0005	-0.0001	3.08642	2.14826	211.785
D342	235	27.3054	1.1887	51.2409	-2.3777	2.9341	0.1925	-0.0007	-0.0001	3.10929	2.16720	216.557
IPM2A17	236	27.3054	1.1887	51.2409	-2.3777	2.9341	0.1925	-0.0007	-0.0001	3.10929	2.16720	216.557
MQC2A17	237	27.6802	-2.4545	50.6331	4.3767	3.0507	0.5874	-0.0007	0.0000	3.11104	2.16814	216.857
D316	238	29.6294	-2.5533	47.2862	4.2217	3.2793	0.5874	-0.0007	0.0000	3.11321	2.16940	217.246
MBT2A17V	239	29.6294	-2.5533	47.2862	4.2217	3.2793	0.5874	-0.0007	0.0000	3.11321	2.16940	217.246
D336	240	47.7078	-3.3327	25.1080	2.9991	5.0834	0.5874	-0.0006	0.0000	3.12622	2.18361	220.317
IPM2A18	241	47.7078	-3.3327	25.1080	2.9991	5.0834	0.5874	-0.0006	0.0000	3.12622	2.18361	220.317
D307	242	49.2180	-3.3897	23.7806	2.9097	5.2153	0.5874	-0.0006	0.0000	3.12696	2.18507	220.542
MQC2A18	243	48.8046	4.7449	23.2130	-0.9866	5.2612	-0.2830	-0.0006	-0.0001	3.12793	2.18712	220.842
D308	244	46.9896	4.6519	23.5973	-1.0030	5.2065	-0.2830	-0.0006	-0.0001	3.12857	2.18843	221.035
MBT2A18H	245	46.9896	4.6519	23.5973	-1.0030	5.2065	-0.2830	-0.0006	-0.0001	3.12857	2.18843	221.035
D337	246	21.7337	3.0776	31.0593	-1.2807	4.2818	-0.2830	-0.0008	-0.0001	3.14487	2.20769	224.303
D307	247	20.3753	2.9693	31.6390	-1.2998	4.2182	-0.2830	-0.0008	-0.0001	3.14657	2.20883	224.527
MQC2A19	248	19.1196	1.2510	31.6318	1.3237	4.1856	0.0653	-0.0008	0.0000	3.14900	2.21033	224.827
D316	249	18.1660	1.1988	30.6145	1.2898	4.2111	0.0653	-0.0008	0.0000	3.15232	2.21232	225.216
MBT2A19V	250	18.1660	1.1988	30.6145	1.2898	4.2111	0.0653	-0.0008	0.0000	3.15232	2.21232	225.216
D333	251	10.2352	0.6109	20.9806	0.9085	4.4971	0.0653	-0.0007	0.0000	3.20440	2.23998	229.599
MBR2A08	252	8.2679	0.3750	17.1051	0.9941	4.8055	0.2445	-0.0007	0.0000	3.23906	2.25687	231.602
D343	253	7.3718	0.1305	13.9463	0.7881	5.2389	0.2445	-0.0006	0.0000	3.27551	2.27517	233.375
D371	254	7.3059	0.0891	13.4839	0.7532	5.3122	0.2445	-0.0006	0.0000	3.28202	2.27865	233.675
D339	255	7.7097	-0.2523	10.4681	0.4656	5.9172	0.2445	-0.0006	0.0000	3.33550	2.31205	236.149
IPM2A21	256	7.7097	-0.2523	10.4681	0.4656	5.9172	0.2445	-0.0006	0.0000	3.33550	2.31205	236.149
D307	257	7.8300	-0.2833	10.2648	0.4395	5.9721	0.2445	-0.0006	0.0000	3.34010	2.31550	236.374
MQC2A21	258	7.8191	0.3191	10.2610	-0.4267	5.9721	-0.2445	-0.0006	0.0000	3.34618	2.32017	236.674
D308	259	7.7011	0.2919	10.4301	-0.4490	5.9249	-0.2445	-0.0006	0.0000	3.35014	2.32314	236.867
MBT2A21H	260	7.7011	0.2919	10.4301	-0.4490	5.9249	-0.2445	-0.0006	0.0000	3.35014	2.32314	236.867
D334	261	7.3609	0.1931	11.1168	-0.5298	5.7534	-0.2445	-0.0006	0.0000	3.36499	2.33352	237.568
ITV2A21	262	7.3609	0.1931	11.1168	-0.5298	5.7534	-0.2445	-0.0006	0.0000	3.36499	2.33352	237.568
IHA2A21	263	7.3609	0.1931	11.1168	-0.5298	5.7534	-0.2445	-0.0006	0.0000	3.36499	2.33352	237.568
D326	264	7.1229	-0.0612	13.4038	-0.7377	5.3123	-0.2445	-0.0006	0.0000	3.40507	2.35713	239.373
D371	265	7.1723	-0.1035	13.8567	-0.7722	5.2389	-0.2445	-0.0006	0.0000	3.41176	2.36063	239.673
D327												

MBT2A25V	287	28.1025	-1.2528	48.8276	2.2955	2.8594	-0.1925	-0.0007	0.0001	3.58496	2.47103	256.880
D333	288	40.8392	-1.6535	31.1741	1.7328	2.0158	-0.1925	-0.0004	0.0001	3.60561	2.48895	261.262
MBR2A10	289	47.4376	-1.6531	23.8997	1.8385	1.8213	-0.0028	-0.0003	0.0001	3.61280	2.50065	263.265
D328	290	64.0980	-2.0110	10.9699	1.0052	1.8088	-0.0028	-0.0001	0.0001	3.62594	2.54595	267.812
IPM2A26	291	64.0980	-2.0110	10.9699	1.0052	1.8088	-0.0028	-0.0001	0.0001	3.62594	2.54595	267.812
D307	292	65.0055	-2.0286	10.5275	0.9640	1.8081	-0.0028	-0.0001	0.0001	3.62649	2.54928	268.037
MQC2A26	293	63.9756	5.4217	10.3213	-0.2687	1.7761	-0.2103	0.0000	0.0001	3.62723	2.55389	268.337
D316	294	59.8269	5.2368	10.5462	-0.3091	1.6942	-0.2103	0.0000	0.0001	3.62823	2.55983	268.726
MBT2A26H	295	59.8269	5.2368	10.5462	-0.3091	1.6942	-0.2103	0.0000	0.0001	3.62823	2.55983	268.726
D333	296	23.0522	3.1547	15.2502	-0.7643	0.7725	-0.2103	0.0002	0.0001	3.64705	2.61598	273.109
MBR2A11	297	12.2595	2.2539	18.2247	-0.6959	0.5474	-0.0157	0.0003	0.0000	3.66592	2.63518	275.112
D342	298	2.0419	-0.1126	26.7205	-1.0846	0.4723	-0.0157	0.0006	0.0000	3.86730	2.66987	279.883
IPM2A27	299	2.0419	-0.1126	26.7205	-1.0846	0.4723	-0.0157	0.0006	0.0000	3.86730	2.66987	279.883
MQC2A27	300	2.2288	-0.5178	26.4350	2.0249	0.4759	0.0396	0.0006	0.0000	3.88989	2.67165	280.183
D316	301	2.7180	-0.7392	24.8879	1.9498	0.4913	0.0396	0.0005	0.0000	3.91516	2.67407	280.573
MBT2A27V	302	2.7180	-0.7392	24.8879	1.9498	0.4913	0.0396	0.0005	0.0000	3.91516	2.67407	280.573
D336	303	12.6262	-2.4867	14.7309	1.3572	0.6131	0.0396	0.0005	0.0000	4.00300	2.69971	283.644
IPM2A28	304	12.6262	-2.4867	14.7309	1.3572	0.6131	0.0396	0.0005	0.0000	4.00300	2.69971	283.644
D307	305	13.7722	-2.6145	14.1309	1.3139	0.6220	0.0396	0.0005	0.0000	4.00571	2.70219	283.869
MQC2A28	306	13.9946	1.8975	14.7274	-3.3664	0.6037	-0.1606	0.0005	0.0001	4.00909	2.70555	284.169
D308	307	13.2738	1.8340	16.0591	-3.5281	0.5726	-0.1606	0.0005	0.0001	4.01135	2.70755	284.362
MBT2A28H	308	13.2738	1.8340	16.0591	-3.5281	0.5726	-0.1606	0.0005	0.0001	4.01135	2.70755	284.362
D337	309	4.7983	0.7599	48.0555	-6.2642	0.0479	-0.1606	0.0010	0.0001	4.07848	2.72631	287.629
D307	310	4.4735	0.6860	50.9123	-6.4523	0.0118	-0.1606	0.0011	0.0001	4.08620	2.72703	287.854
MQC2A29	311	4.3116	-0.1372	52.1542	2.3837	-0.0365	-0.1627	0.0011	0.0000	4.09718	2.72795	288.154
D344	312	11.0014	-1.2648	32.3234	1.7723	-0.8128	-0.1627	0.0009	0.0000	4.21899	2.74649	292.926
MBR2A12	313	16.8603	-1.6713	24.8569	1.8933	-0.9371	0.0378	0.0008	0.0000	4.24231	2.75776	294.929
D343	314	23.4918	-2.0701	18.7248	1.5663	-0.8702	0.0378	0.0007	0.0000	4.25650	2.77085	296.701
D371	315	24.7541	-2.1376	17.8016	1.5110	-0.8588	0.0378	0.0007	0.0000	4.25848	2.77347	297.001
D316	316	26.4523	-2.2252	16.6532	1.4392	-0.8441	0.0378	0.0007	0.0000	4.26090	2.77707	297.391
MBT2A30V	317	26.4523	-2.2252	16.6532	1.4392	-0.8441	0.0378	0.0007	0.0000	4.26090	2.77707	297.391
D345	318	36.7104	-2.6943	11.4530	1.0547	-0.7654	0.0378	0.0006	0.0000	4.27156	2.80119	299.476
IPM2A31	319	36.7104	-2.6943	11.4530	1.0547	-0.7654	0.0378	0.0006	0.0000	4.27156	2.80119	299.476
D307	320	37.9323	-2.7448	10.9884	1.0132	-0.7569	0.0378	0.0006	0.0000	4.27252	2.80438	299.700
MQC2A31	321	37.8286	3.0849	10.8924	-0.6883	-0.7283	0.1522	0.0006	0.0000	4.27377	2.80878	300.000
D308	322	36.6473	3.0312	11.1633	-0.7144	-0.6989	0.1522	0.0006	0.0000	4.27459	2.81156	300.194
MBT2A31H	323	36.6473	3.0312	11.1633	-0.7144	-0.6989	0.1522	0.0006	0.0000	4.27459	2.81156	300.194
D334	324	32.5310	2.8362	12.2323	-0.8093	-0.5921	0.1522	0.0006	0.0000	4.27783	2.82112	300.895
ITV2A31	325	32.5310	2.8362	12.2323	-0.8093	-0.5921	0.1522	0.0006	0.0000	4.27783	2.82112	300.895
D326	326	23.2009	2.3346	15.5936	-1.0535	-0.3174	0.1522	0.0007	0.0000	4.28829	2.84198	302.699
D371	327	21.8252	2.2512	16.2378	-1.0941	-0.2717	0.1522	0.0007	0.0000	4.29041	2.84498	302.999
D327	328	14.7183	1.7584	20.5413	-1.3339	-0.0019	0.1522	0.0008	0.0000	4.30617	2.86045	304.772
MBR2A13	329	8.7406	1.2373	25.7314	-1.2142	0.4966	0.3484	0.0008	0.0000	4.33421	2.87435	306.775
D328	330	3.4752	-0.0793	38.7608	-1.6514	2.0806	0.3484	0.0009	0.0000	4.48863	2.89735	311.322
D307	331	3.5255	-0.1444	39.5076	-1.6730	2.1589	0.3484	0.0009	0.0000	4.49885	2.89826	311.547
MQC2A33	332	3.7831	-0.7259	38.9404	3.5383	2.3072	0.6439	0.0009	-0.0001	4.51202	2.89947	311.847
D316	333	4.4094	-0.8830	36.2385	3.4032	2.5579	0.6439	0.0009	-0.0001	4.52722	2.90112	312.236
MBT2A33V	334	4.4094	-0.8830	36.2385	3.4032	2.5579	0.6439	0.0009	-0.0001	4.52722	2.90112	312.236
D329	335	12.1568	-1.9765	20.3461	2.4625	4.3025	0.6439	0.0006	-0.0001	4.58755	2.91703	314.945
D372	336	12.7588	-2.0370	19.6151	2.4104	4.3991	0.6439	0.0006	-0.0001	4.58946	2.91822	315.095
D330	337	13.6407	-2.1226	18.6086	2.3368	4.5356	0.6439	0.0006	-0.0001	4.59202	2.91999	315.307
IPM2A34	338	13.6407	-2.1226	18.6086	2.3368	4.5356	0.6439	0.0006	-0.0001	4.59202	2.91999	315.307
D307	339	14.6148	-2.2133	17.5762	2.2588	4.6803	0.6439	0.0006	-0.0001	4.59455	2.92196	315.532
MQC2A34	340	14.5597	-2.3910	17.8776	-3.2949	4.6513	-0.8353	0.0006	0.0001	4.59778	2.92470	315.832
D308	341	13.6533	2.3019	19.1752	-3.4230	4.4900	-0.8353	0.0006	0.0001	4.59996	2.92636	316.025
MBT2A34H	342	13.6533	2.3019	19.1752	-3.4230	4.4900	-0.8353	0.0006	0.0001	4.59996	2.92636	316.025
D340	343	4.1717	0.9615	44.6649	-5.3500	2.0630	-0.8353	0.0008	0.0001	4.66285	2.94219	318.931
D372	344	3.8936	0.8923	46.2848	-5.4494	1.9378	-0.8353	0.0008	0.0001	4.66878	2.94271	319.081
D341	345	3.2023	0.6909	51.1705	-5.7390	1.5730	-0.8353	0.0008	0.0001	4.68851	2.94414	319.517
IPM2A35	346	3.2023	0.6909	51.1705	-5.7390	1.5730	-0.8353	0.0008	0.0001	4.68851	2.94414	319.517
MQC2A35	347	2.9664	0.1074	52.2547	2.1806	1.3567	-0.6120	0.0008	-0.0001	4.70415	2.94506	319.817
D316	348	2.9345	-0.0253	50.5738	2.1377	1.1185	-0.6120	0.0008	-0.0001	4.72520	2.94626	320.207
MBT2A35V	349	2.9345	-0.0253	50.5738	2.1377	1.1185	-0.6120	0.0008	-0.0001	4.72520	2.94626	320.207
D333	350	9.7054	-1.5197	33.9527	1.6551	-1.5634	-0.6120	0.0006	-0.0001	4.87855	2.96313	324.589
MBR2A14	351	16.9975	-2.1346	26.8277	1.8429	-2.5780	-0.4069	0.0005	-0.0001	4.90328	2.97371	326.592
D328	352	43.1684	-3.6211	13.4567	1.0978	-4.4282	-0.4069	0.0002	-0.0001	4.93012	3.01217	331.139
IPM2A36	353	43.1684	-3.6211	13.4567	1.0978	-4.4282	-0.4069	0.0002	-0.0001	4.93012	3.01217	331.139
D307	354	44.8119	-3.6945	12.9717	1.0610	-4.5196	-0.4069	0.0002	-0.0001	4.93093	3.01488	331.364
MQC2A36	355	44.8677	3.5113	12.9630	-1.0315	-4.5325	0.3211	0.0002	0.0000	4.93199	3.01859	331.664
D308	356	43.5224	3.4539	13.3674	-1.0623	-4.4705	0.3211	0.0002	0.0000	4.93268	3.02092	331.857
MBT2A36H	357	43.5224	3.4539	13.3674	-1.0623	-4.4705	0.3211	0.0002	0.0000	4.93268	3.02092	331.857
D346	358	18.1227	2.0938	26.4323	-1.7913	-3.0003	0.3211	0.0000	0.0000	4.95875	3.06008	336.435
MBR2A15	359	10.8660	1.5428	33.3469	-1.6033	-2.1546	0.5281	0.0000	0.0000	4.98137	3.07084	338.439
D342	360	3.2254	0.0584	51.0855	-2.1142	0.3655	0.5281	-0.0002	0.0000	5.13055	3.08928	343.210
IPM2A37	361	3.2254	0.0584	51.0855	-2.1142	0.3655	0.5281	-0.0002	0.0000	5.13055	3.08928	343.210
MQC2A37	362	3.3656	-0.5327	50.0531	5.5036	0.5334	0.5955	-0.0002	0.0000	5.14517	3.09022	343.510
D316	363	3.8381	-0.6812	45.8634	5.2602	0.7652	0.5955	-0.0002	0.0000	5.16244	3.09152	343.899
MBT2A37V	364	3.8381	-0.6812	45.8634	5.2602	0.7652	0.5955	-0.0002	0.0000	5.16244	3.09152	343.899
D336	365	11.6205	-1.8527	19.4477	3.3402	2.5944	0.5955	-0.0002	0.0000	5.23850	3.10791	346.971
IPM2A38	366	11.6205	-1.8527	19.4477	3.3402	2.5944	0.5955	-0.0002	0.0000	5.23850	3.10791	346.971
D307	367	12.4722	-1.9384	17.9785	3.1998	2.7281	0.5955	-0.0002	0.0000	5.24147	3.10982	347.195
MQC2A38	368	12.2679	2.5943	18.0164	-3.3306	2.7555	-0.4150	-0.0002	-0.0001	5.24526	3.11253	347.495
D308	369	11.2892	2.4725	19.3281	-3.4603	2.6753	-0.4150	-0.0002	-0.0001	5.24788	3.11417	3

MQC2R02	391	0.9443	1.2937	15.6907	5.5597	0.0000	-0.0001	-0.0006	0.0002	5.69178	3.36893	366.529
D316	392	0.3661	0.1916	11.6707	4.7681	0.0000	-0.0001	-0.0005	0.0002	5.80693	3.37351	366.918
MBT2R02V	393	0.3661	0.1916	11.6707	4.7681	0.0000	-0.0001	-0.0005	0.0002	5.80693	3.37351	366.918
D318	394	14.2888	-6.2817	0.4987	0.1188	-0.0002	-0.0001	0.0000	0.0002	6.06193	3.57178	369.204
IPM2R03	395	14.2888	-6.2817	0.4987	0.1188	-0.0002	-0.0001	0.0000	0.0002	6.06193	3.57178	369.204
D307	396	17.2540	-6.9178	0.5479	-0.3381	-0.0002	-0.0001	0.0001	0.0002	6.06420	3.64249	369.429
MQC2R03	397	18.0681	4.3779	1.0829	-1.5567	-0.0002	0.0000	0.0001	0.0003	6.06682	3.70831	369.722
D308	398	16.4186	4.1623	1.8022	-2.1672	-0.0002	0.0000	0.0002	0.0003	6.06861	3.73039	369.922
MBT2R03H	399	16.4186	4.1623	1.8022	-2.1672	-0.0002	0.0000	0.0002	0.0003	6.06861	3.73039	369.922
D348	400	2.6319	1.3919	32.0378	-10.0137	-0.0001	0.0000	0.0010	0.0003	6.13024	3.78335	372.404
IPM2R04	401	2.6319	1.3919	32.0378	-10.0137	-0.0001	0.0000	0.0010	0.0003	6.13024	3.78335	372.404
D307	402	2.0628	1.1412	36.6965	-10.7239	-0.0001	0.0000	0.0010	0.0003	6.14560	3.78439	372.629
MQC2R04	403	1.7769	-0.1346	36.7651	10.5085	-0.0001	0.0000	0.0010	-0.0003	6.17137	3.78566	372.929
D316	404	1.9685	-0.3576	29.0436	9.3288	-0.0001	0.0000	0.0009	-0.0003	6.20474	3.78755	373.318
MBT2R04V	405	1.9685	-0.3576	29.0436	9.3288	-0.0001	0.0000	0.0009	-0.0003	6.20474	3.78755	373.318
D349	406	14.5910	-2.7129	3.5629	-3.1302	0.0000	0.0000	-0.0003	-0.0003	6.34387	4.22134	377.429
MQC2R05	407	14.6004	2.6827	6.2727	-6.2324	0.0000	0.0000	-0.0004	-0.0004	6.34708	4.23164	377.729
D350	408	9.4798	2.0790	27.0218	-13.0628	0.0000	0.0000	-0.0008	-0.0004	6.36165	4.24480	378.804
IPM2R06	409	9.4798	2.0790	27.0218	-13.0628	0.0000	0.0000	-0.0008	-0.0004	6.36165	4.24480	378.804
D307	410	8.5740	1.9529	33.2115	-14.4897	0.0000	0.0000	-0.0009	-0.0004	6.36562	4.24599	379.029
MQC2R06	411	9.3902	-4.8781	34.1148	11.7123	0.0000	0.0000	-0.0009	0.0003	6.37114	4.24736	379.329
D308	412	11.3731	-5.3881	29.7414	10.9300	0.0000	0.0000	-0.0009	0.0003	6.37412	4.24832	379.522
MBT2R06H	413	11.3731	-5.3881	29.7414	10.9300	0.0000	0.0000	-0.0009	0.0003	6.37412	4.24832	379.522
D351	414	26.5359	-8.3109	10.5079	6.4468	0.0000	0.0000	-0.0005	0.0003	6.38427	4.25829	380.629
MQC2R07	415	30.1648	-3.5662	7.4497	3.9308	0.0000	0.0000	-0.0004	0.0002	6.38594	4.26374	380.929
D316	416	33.0099	-3.7432	4.7242	3.0712	0.0000	0.0000	-0.0004	0.0002	6.38790	4.27419	381.318
MBT2R07V	417	33.0099	-3.7432	4.7242	3.0712	0.0000	0.0000	-0.0004	0.0002	6.38790	4.27419	381.318
D305	418	36.9102	-3.9730	2.1836	1.9550	0.0000	0.0000	-0.0003	0.0002	6.39021	4.29934	381.823
ITV2R07	419	36.9102	-3.9730	2.1836	1.9550	0.0000	0.0000	-0.0003	0.0002	6.39021	4.29934	381.823
D352A	420	39.7788	-4.1340	1.0766	1.1736	0.0000	0.0000	-0.0002	0.0002	6.39168	4.33641	382.177
MAL2R01	421	46.9887	-2.9522	0.9326	-1.0287	0.0000	0.0000	-0.0827	-0.1659	6.39536	4.60077	383.178
IPMAL2R0	422	46.9887	-2.9522	0.9326	-1.0287	0.0000	0.0000	-0.0827	-0.1659	6.39536	4.60077	383.178
D353	423	66.8606	-3.5811	27.6096	-7.7420	0.0001	0.0000	-0.5875	-0.1659	6.40400	4.70307	386.220
MAL2R03	424	72.3651	-1.8435	45.2326	-9.9416	0.0001	0.0000	-0.6701	0.0000	6.40629	4.70756	387.221
D354	425	73.3901	-1.8603	50.9046	-10.5525	0.0001	0.0000	-0.6701	0.0000	6.40689	4.70848	387.498
IPM2R08	426	73.3901	-1.8603	50.9046	-10.5525	0.0001	0.0000	-0.6701	0.0000	6.40689	4.70848	387.498
D307	427	74.2290	-1.8740	55.7572	-11.0483	0.0001	0.0000	-0.6701	0.0000	6.40738	4.70915	387.722
MQC2R08	428	85.5291	-37.4103	55.0805	13.2055	0.0001	0.0000	-0.6271	0.2840	6.40799	4.70999	388.022
D355	429	266.6593	-66.0720	18.6074	7.6321	0.0002	0.0000	-0.1300	0.2840	6.40983	4.71870	389.773
IPM2R09	430	266.6593	-66.0720	18.6074	7.6321	0.0002	0.0000	-0.1300	0.2840	6.40983	4.71870	389.773
D307	431	297.1719	-69.7506	15.3390	6.9168	0.0002	0.0000	-0.0662	0.2840	6.40996	4.72081	389.997
MQC2R09	432	305.1478	44.1696	12.9607	1.3063	0.0002	0.0000	0.0169	0.2748	6.41012	4.72426	390.297
D308	433	288.3237	42.9341	12.4639	1.2659	0.0002	0.0000	0.0700	0.2748	6.41022	4.72668	390.491
MBT2R09H	434	288.3237	42.9341	12.4639	1.2659	0.0002	0.0000	0.0700	0.2748	6.41022	4.72668	390.491
D304	435	271.7318	41.6797	11.9755	1.2250	0.0002	0.0000	0.1239	0.2748	6.41033	4.72924	390.687
MBT2R09V	436	271.7318	41.6797	11.9755	1.2250	0.0002	0.0000	0.1239	0.2748	6.41033	4.72924	390.687
D356A	437	42.6970	16.4961	5.5666	0.4029	0.0001	0.0000	1.2059	0.2748	6.41615	4.80932	394.624
IPM2R10	438	42.6970	16.4961	5.5666	0.4029	0.0001	0.0000	1.2059	0.2748	6.41615	4.80932	394.624
D302	439	33.3853	14.5793	5.3439	0.3403	0.0001	0.0000	1.2882	0.2748	6.41741	4.81807	394.923
MQB2R10	440	30.0369	7.9553	5.0969	1.2900	0.0001	0.0000	1.3109	0.0264	6.41817	4.82262	395.073
D303	441	25.9244	7.3814	4.4427	1.1498	0.0001	0.0000	1.3180	0.0264	6.41970	4.83159	395.341
MBT2R10H	442	25.9244	7.3814	4.4427	1.1498	0.0001	0.0000	1.3180	0.0264	6.41970	4.83159	395.341
D304	443	23.1118	6.9617	4.0119	1.0473	0.0001	0.0000	1.3232	0.0264	6.42098	4.83899	395.538
MBT2R10V	444	23.1118	6.9617	4.0119	1.0473	0.0001	0.0000	1.3232	0.0264	6.42098	4.83899	395.538
D357	445	17.4675	6.0320	3.2006	0.8203	0.0001	0.0000	1.3346	0.0264	6.42442	4.85833	395.972
MAL2R04	446	4.1053	2.8027	1.8539	0.0718	0.0000	0.0000	1.2116	-0.1907	6.45296	4.96269	397.474
D358A	447	45.2702	-9.8309	19.6129	-3.1038	0.0000	0.0000	0.0945	-0.1907	6.88228	5.17449	403.331
MAM2R06	448	63.4927	-9.9215	27.1492	-3.5937	0.0000	0.0000	0.0000	0.0000	6.88526	5.18139	404.337

MAXIMUM LATTICE FUNCTIONS :
 BETA X = 0.3051477879E+03 BETA Y = 0.1056169202E+03
 ETA X = 0.5972118799E+01 ETA Y = 0.1334643329E+01

1
 OPERATION LIST ,

MATRIX

1 -1,

AFTER :MAW2R06 ELEMENT #: 448

 * TRANSFORMATION MATRIX *

FIRST ORDER MATRIX

- -0.1917551E+01 -0.2607593E+02 0.5379775E-14 0.3122084E-13 0.0000000E+00 -0.2736883E-04
 - -0.2269194E+00 -0.3607277E+01 0.1153897E-14 -0.6720898E-15 0.0000000E+00 -0.9828736E-05
 - -0.5396214E-15 0.4921341E-13 -0.1376805E+01 0.1216692E+02 0.0000000E+00 -0.3238531E-04
 - 0.6076367E-15 0.1804499E-13 -0.2877637E+00 0.1816669E+01 0.0000000E+00 -0.4157467E-05
 - 0.1263658E-04 0.1575665E-03 -0.3595294E-05 0.8249792E-05 0.1000000E+01 0.1586073E-02
 - 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.1000000E+01

HORIZONTAL MOVEMENT ANALYSIS

COMPACTION FACTOR = 0.3922649E-05 GAMMA TR = 0.5049057E+03

MOVEMENT IS UNSTABLE

HALF-TRACE = -0.27624136075405E+01
 EIGENVALUE1 = -0.18735459091099E+00
 WITH EIGENVECTOR :
 X = 0.99780593336285E+00 XP = -0.66206641252177E-01
 EIGENVALUE2 = -0.53374726241700E+01

WITH EIGENVECTOR :
X = 0.99150890429766E+00 XP = 0.13003881227716E+00

VERTICAL MOVEMENT ANALYSIS

COS(MU)= 0.21993175205853E+00 NU = 0.21470826528459E+00
ETA = -0.15470131159361E-04 ETAP = -0.36033579133823E-06
ALPHA = -0.16368137852062E+01 BETA = 0.12472305130319E+02

1

OPERATION LIST ,

HARDWARE

2.30249 901.072 -80.6 100 -91.5251 -180 0.0 0 1 0;

VALUES ARE FOR ENERGY : 0.230E+01 GEV

THE LENGTHS ARE MEASURED IN METERS ,THE ANGLES IN DEGREES

THE SKYZ COORDINATES,AZIMUTH,ELEVATION AND ROLL ANGLES ARE :

#	NAME	S	X	Y	Z	THETA	PHI	PSI
1	MAW2S01	902.0779500000	-80.6000000000	100.0945377401	-92.5251023675	180.0000000000	10.8011000000	0.0000000000
2	D300A	907.9350500000	-80.6000000000	101.1921592940	-98.2784359520	180.0000000000	10.8011000000	0.0000000000
3	MAL2S03	909.4372700000	-80.6000000000	101.3333357779	-99.7717741462	180.0000000000	0.0000000000	0.0000000000
4	D301	909.8826180000	-80.6000000000	101.3333357779	-100.2171221462	180.0000000000	0.0000000000	0.0000000000
5	IPM2S01	909.8826180000	-80.6000000000	101.3333357779	-100.2171221462	180.0000000000	0.0000000000	0.0000000000
6	D302	910.1822680000	-80.6000000000	101.3333357779	-100.5167721462	180.0000000000	0.0000000000	0.0000000000
7	MQB2S01	910.3322680000	-80.6000000000	101.3333357779	-100.6667721462	180.0000000000	0.0000000000	0.0000000000
8	D303	910.6004180000	-80.6000000000	101.3333357779	-100.9349221462	180.0000000000	0.0000000000	0.0000000000
9	MBT2S01H	910.6004180100	-80.6000000000	101.3333357779	-100.9349221562	180.0000000000	0.0000000000	0.0000000000
10	D304	910.7965080100	-80.6000000000	101.3333357779	-101.1310121562	180.0000000000	0.0000000000	0.0000000000
11	MBT2S01V	910.7965080200	-80.6000000000	101.3333357779	-101.1310121662	180.0000000000	0.0000000000	0.0000000000
12	D305	911.3019680200	-80.6000000000	101.3333357779	-101.6364721662	180.0000000000	0.0000000000	0.0000000000
13	ITV2S01	911.3019680200	-80.6000000000	101.3333357779	-101.6364721662	180.0000000000	0.0000000000	0.0000000000
14	D306A	914.3535180200	-80.6000000000	101.3333357779	-104.6880221662	180.0000000000	0.0000000000	0.0000000000
15	IPM2S02	914.3535180200	-80.6000000000	101.3333357779	-104.6880221662	180.0000000000	0.0000000000	0.0000000000
16	D307	914.5781680200	-80.6000000000	101.3333357779	-104.9126721662	180.0000000000	0.0000000000	0.0000000000
17	MQC2S02	914.8781680200	-80.6000000000	101.3333357779	-105.2126721662	180.0000000000	0.0000000000	0.0000000000
18	D308	915.0713180200	-80.6000000000	101.3333357779	-105.4058221662	180.0000000000	0.0000000000	0.0000000000
19	MBT2S02H	915.0713180300	-80.6000000000	101.3333357779	-105.4058221762	180.0000000000	0.0000000000	0.0000000000
20	D304	915.2674080300	-80.6000000000	101.3333357779	-105.6019121762	180.0000000000	0.0000000000	0.0000000000
21	MBT2S02V	915.2674080400	-80.6000000000	101.3333357779	-105.6019121862	180.0000000000	0.0000000000	0.0000000000
22	D309	916.7135180400	-80.6000000000	101.3333357779	-107.0480221862	180.0000000000	0.0000000000	0.0000000000
23	IPM2S03	916.7135180400	-80.6000000000	101.3333357779	-107.0480221862	180.0000000000	0.0000000000	0.0000000000
24	D307	916.9381680400	-80.6000000000	101.3333357779	-107.2726721862	180.0000000000	0.0000000000	0.0000000000
25	MQC2S03	917.2381680400	-80.6000000000	101.3333357779	-107.5726721862	180.0000000000	0.0000000000	0.0000000000
26	D308	917.4313180400	-80.6000000000	101.3333357779	-107.7658221862	180.0000000000	0.0000000000	0.0000000000
27	MBT2S03H	917.4313180500	-80.6000000000	101.3333357779	-107.7658221962	180.0000000000	0.0000000000	0.0000000000
28	D304	917.6274080500	-80.6000000000	101.3333357779	-107.9619121962	180.0000000000	0.0000000000	0.0000000000
29	MBT2S03V	917.6274080600	-80.6000000000	101.3333357779	-107.9619122062	180.0000000000	0.0000000000	0.0000000000
30	D310	918.1881680600	-80.6000000000	101.3333357779	-108.5226722062	180.0000000000	0.0000000000	0.0000000000
31	MAI2S04	919.1893080600	-80.6000000000	101.4160242372	-109.5192445535	180.0000000000	9.4862600000	0.0000000000
32	D311	922.2309080600	-80.6000000000	101.9173136233	-112.5192511387	180.0000000000	9.4862600000	0.0000000000
33	IPMAI2S0	922.2309080600	-80.6000000000	101.9173136233	-112.5192511387	180.0000000000	9.4862600000	0.0000000000
34	MAI2S06	923.2320480600	-80.6000000000	102.000020826	-113.5158234860	180.0000000000	0.0000000000	0.0000000000
35	D312A	925.3805980600	-80.6000000000	102.000020826	-115.6643734860	180.0000000000	0.0000000000	0.0000000000
36	MQC2S04	925.6805980600	-80.6000000000	102.000020826	-115.9643734860	180.0000000000	0.0000000000	0.0000000000
37	D313	926.5752980600	-80.6000000000	102.000020826	-116.8590734860	180.0000000000	0.0000000000	0.0000000000
38	D314	926.7559480600	-80.6000000000	102.000020826	-117.0397234860	180.0000000000	0.0000000000	0.0000000000
39	IPM2S05	926.7559480600	-80.6000000000	102.000020826	-117.0397234860	180.0000000000	0.0000000000	0.0000000000
40	D307	926.9805980600	-80.6000000000	102.000020826	-117.2643734860	180.0000000000	0.0000000000	0.0000000000
41	MQC2S05	927.2805980600	-80.6000000000	102.000020826	-117.5643734860	180.0000000000	0.0000000000	0.0000000000
42	D308	927.4737480600	-80.6000000000	102.000020826	-117.7575234860	180.0000000000	0.0000000000	0.0000000000
43	MBT2S05H	927.4737480700	-80.6000000000	102.000020826	-117.7575234960	180.0000000000	0.0000000000	0.0000000000
44	D304	927.6698380700	-80.6000000000	102.000020826	-117.9536134960	180.0000000000	0.0000000000	0.0000000000
45	MBT2S05V	927.6698380800	-80.6000000000	102.000020826	-117.9536135060	180.0000000000	0.0000000000	0.0000000000
46	D315	928.5805980800	-80.6000000000	102.000020826	-118.8643735060	180.0000000000	0.0000000000	0.0000000000
47	MQC2S06	928.8805980800	-80.6000000000	102.000020826	-119.1643735060	180.0000000000	0.0000000000	0.0000000000
48	D308	929.0737480800	-80.6000000000	102.000020826	-119.3575235060	180.0000000000	0.0000000000	0.0000000000
49	D304	929.2698380800	-80.6000000000	102.000020826	-119.5536135060	180.0000000000	0.0000000000	0.0000000000
50	D317	934.7559480800	-80.6000000000	102.000020826	-125.0397235060	180.0000000000	0.0000000000	0.0000000000
51	IPM2S07	934.7559480800	-80.6000000000	102.000020826	-125.0397235060	180.0000000000	0.0000000000	0.0000000000
52	D307	934.9805980800	-80.6000000000	102.000020826	-125.2643735060	180.0000000000	0.0000000000	0.0000000000
53	MQC2S07	935.2805980800	-80.6000000000	102.000020826	-125.5643735060	180.0000000000	0.0000000000	0.0000000000
54	D308	935.4737480800	-80.6000000000	102.000020826	-125.7575235060	180.0000000000	0.0000000000	0.0000000000
55	MBT2S07H	935.4737480900	-80.6000000000	102.000020826	-125.7575235160	180.0000000000	0.0000000000	0.0000000000
56	D304	935.6698380900	-80.6000000000	102.000020826	-125.9536135160	180.0000000000	0.0000000000	0.0000000000
57	MBT2S07V	935.6698381000	-80.6000000000	102.000020826	-125.9536135260	180.0000000000	0.0000000000	0.0000000000
58	D318	937.9559481000	-80.6000000000	102.000020826	-128.2397235260	180.0000000000	0.0000000000	0.0000000000
59	IPM2S08	937.9559481000	-80.6000000000	102.000020826	-128.2397235260	180.0000000000	0.0000000000	0.0000000000
60	D307	938.1805981000	-80.6000000000	102.000020826	-128.4643735260	180.0000000000	0.0000000000	0.0000000000
61	MQC2S08	938.4805981000	-80.6000000000	102.000020826	-128.7643735260	180.0000000000	0.0000000000	0.0000000000
62	D308	938.6737481000	-80.6000000000	102.000020826	-128.9575235260	180.0000000000	0.0000000000	0.0000000000
63	MBT2S08H	938.6737481100	-80.6000000000	102.000020826	-128.9575235360	180.0000000000	0.0000000000	0.0000000000
64	D304	938.8698381100	-80.6000000000	102.000020826	-129.1536135360	180.0000000000	0.0000000000	0.0000000000
65	MBT2S08V	938.8698381200	-80.6000000000	102.000020826	-129.1536135460	180.0000000000	0.0000000000	0.0000000000
66	D318	941.1559481200	-80.6000000000	102.000020826	-131.4397235460	180.0000000000	0.0000000000	0.0000000000
67	IPM2S09	941.1559481200	-80.6000000000	102.000020826	-131.4397235460	180.0000000000	0.0000000000	0.0000000000
68	D307	941.3805981200	-80.6000000000	102.000020826	-131.6643735460	180.0000000000	0.0000000000	0.0000000000
69	MQC2S09	941.6805981200	-80.6000000000	102.000020826	-131.9643735460	180.0000000000	0.0000000000	0.0000000000
70	D308	941.8737481200	-80.6000000000	102.000020826	-132.1575235460	180.0000000000	0.0000000000	0.0000000000
71	MBT2S09H	941.8737481300	-80.6000000000	102.000020826	-132.1575235560	180.0000000000	0.0000000000	0.0000000000
72	D304	942.0698381300	-80.6000000000	102.000020826	-132.3536135560	180.0000000000	0.0000000000	0.0000000000
73	MBT2S09V	942.0698381400	-80.6000000000	102.000020826	-132.3536135660	180.0000000000	0.0000000000	0.0000000000
74	D318	944.3559481400	-80.6000000000	102.000020826	-134.6397235660	180.0000000000	0.0000000000	0.0000000000
75	IPM2S10	944.3559481400	-80.6000000000	102.000020826	-134.6397235660	180.0000000000	0.0000000000	0.0000000000

76	D307	944.5805981400	-80.6000000000	102.0000020826	-134.8643735660	180.0000000000	0.0000000000	0.0000000000
77	MQC2S10	944.8805981400	-80.6000000000	102.0000020826	-135.1643735660	180.0000000000	0.0000000000	0.0000000000
78	D308	945.0737481400	-80.6000000000	102.0000020826	-135.3575235660	180.0000000000	0.0000000000	0.0000000000
79	MBT2S10H	945.0737481500	-80.6000000000	102.0000020826	-135.3575235660	180.0000000000	0.0000000000	0.0000000000
80	MAT2S10H	945.0737481600	-80.6000000000	102.0000020826	-135.3575235860	180.0000000000	0.0000000000	0.0000000000
81	D304	945.2698381600	-80.6000000000	102.0000020826	-135.5536135860	180.0000000000	0.0000000000	0.0000000000
82	MBT2S10V	945.2698381700	-80.6000000000	102.0000020826	-135.5536135960	180.0000000000	0.0000000000	0.0000000000
83	D305	945.7752981700	-80.6000000000	102.0000020826	-136.0590735960	180.0000000000	0.0000000000	0.0000000000
84	D319	960.9059981700	-80.6000000000	102.0000020826	-151.1897735960	180.0000000000	0.0000000000	0.0000000000
85	IPM2E01	960.9059981700	-80.6000000000	102.0000020826	-151.1897735960	180.0000000000	0.0000000000	0.0000000000
86	D302	961.2056481700	-80.6000000000	102.0000020826	-151.4894235960	180.0000000000	0.0000000000	0.0000000000
87	MQB2E01	961.3556481700	-80.6000000000	102.0000020826	-151.6394235960	180.0000000000	0.0000000000	0.0000000000
88	D303	961.6237981700	-80.6000000000	102.0000020826	-151.9075735960	180.0000000000	0.0000000000	0.0000000000
89	MBT2E01H	961.6237981800	-80.6000000000	102.0000020826	-151.9075736060	180.0000000000	0.0000000000	0.0000000000
90	D304	961.8198881800	-80.6000000000	102.0000020826	-152.1036636060	180.0000000000	0.0000000000	0.0000000000
91	MBT2E01V	961.8198881900	-80.6000000000	102.0000020826	-152.1036636160	180.0000000000	0.0000000000	0.0000000000
92	D305	962.3253481900	-80.6000000000	102.0000020826	-152.6091236160	180.0000000000	0.0000000000	0.0000000000
93	IHA2E01	962.3253481900	-80.6000000000	102.0000020826	-152.6091236160	180.0000000000	0.0000000000	0.0000000000
94	D320	962.8056481900	-80.6000000000	102.0000020826	-153.0894236160	180.0000000000	0.0000000000	0.0000000000
95	MBW2E01	963.3057851900	-80.6101341161	102.0000020826	-153.5894236935	-177.6777500000	0.0000000000	0.0000000000
96	D321	969.0605151900	-80.8433146961	102.0000020826	-159.3394275361	-177.6777500000	0.0000000000	0.0000000000
97	MBX2E02	970.0607851900	-80.8433147834	102.0000020826	-160.3394236934	177.6777600000	0.0000000000	0.0000000000
98	D321	975.8155151900	-80.6101352069	102.0000020826	-166.0894275767	177.6777600000	0.0000000000	0.0000000000
99	MBW2E03	976.3156521900	-80.6000011781	102.0000020826	-166.5894276560	-179.9999900000	0.0000000000	0.0000000000
100	D322	977.4659921900	-80.6000013789	102.0000020826	-167.7397676560	-179.9999900000	0.0000000000	0.0000000000
101	IPM2E02	977.4659921900	-80.6000013789	102.0000020826	-167.7397676560	-179.9999900000	0.0000000000	0.0000000000
102	D302	977.7656421900	-80.6000014312	102.0000020826	-168.0394176560	-179.9999900000	0.0000000000	0.0000000000
103	MQB2E02	977.9156421900	-80.6000014573	102.0000020826	-168.1894176560	-179.9999900000	0.0000000000	0.0000000000
104	D303	978.1837921900	-80.6000015041	102.0000020826	-168.4575676560	-179.9999900000	0.0000000000	0.0000000000
105	MBT2E02H	978.1837922000	-80.6000015041	102.0000020826	-168.4575676660	-179.9999900000	0.0000000000	0.0000000000
106	D304	978.3798822000	-80.6000015384	102.0000020826	-168.6536576660	-179.9999900000	0.0000000000	0.0000000000
107	MBT2E02V	978.3798822100	-80.6000015384	102.0000020826	-168.6536576760	-179.9999900000	0.0000000000	0.0000000000
108	D323	978.7583422100	-80.6000016044	102.0000020826	-169.0321176760	-179.9999900000	0.0000000000	0.0000000000
109	ITV2E02	978.7583422100	-80.6000016044	102.0000020826	-169.0321176760	-179.9999900000	0.0000000000	0.0000000000
110	D324	978.8853422100	-80.6000016266	102.0000020826	-169.1591176760	-179.9999900000	0.0000000000	0.0000000000
111	D319A	993.8196422100	-80.6000042331	102.0000020826	-184.0934176760	-179.9999900000	0.0000000000	0.0000000000
112	IHA2E03	993.8196422100	-80.6000042331	102.0000020826	-184.0934176760	-179.9999900000	0.0000000000	0.0000000000
113	D319B	994.0159842100	-80.6000042674	102.0000020826	-184.2897596760	-179.9999900000	0.0000000000	0.0000000000
114	IPM2E03	994.0159842100	-80.6000042674	102.0000020826	-184.2897596760	-179.9999900000	0.0000000000	0.0000000000
115	D302	994.3156342100	-80.6000043197	102.0000020826	-184.5894096760	-179.9999900000	0.0000000000	0.0000000000
116	MQB2E03	994.4656342100	-80.6000043459	102.0000020826	-184.7394096760	-179.9999900000	0.0000000000	0.0000000000
117	D303	994.7337842100	-80.6000043927	102.0000020826	-185.0075596760	-179.9999900000	0.0000000000	0.0000000000
118	MBT2E03H	994.7337842200	-80.6000043927	102.0000020826	-185.0075596860	-179.9999900000	0.0000000000	0.0000000000
119	D304	994.9298742200	-80.6000044269	102.0000020826	-185.2036496860	-179.9999900000	0.0000000000	0.0000000000
120	MBT2E03V	994.9298742300	-80.6000044269	102.0000020826	-185.2036496960	-179.9999900000	0.0000000000	0.0000000000
121	D325	1010.5673742300	-80.6000071561	102.0000020826	-200.8411496960	-179.9999900000	0.0000000000	0.0000000000
122	IPM2A01	1010.5673742300	-80.6000071561	102.0000020826	-200.8411496960	-179.9999900000	0.0000000000	0.0000000000
123	D307	1010.7920242300	-80.6000071954	102.0000020826	-201.0657996960	-179.9999900000	0.0000000000	0.0000000000
124	MQC2A01	1011.0920242300	-80.6000072477	102.0000020826	-201.3657996960	-179.9999900000	0.0000000000	0.0000000000
125	D308	1011.2851742300	-80.6000072814	102.0000020826	-201.5589496960	-179.9999900000	0.0000000000	0.0000000000
126	MBT2A01H	1011.2851742400	-80.6000072814	102.0000020826	-201.5589497060	-179.9999900000	0.0000000000	0.0000000000
127	D304	1011.4812642400	-80.6000073157	102.0000020826	-201.7550397060	-179.9999900000	0.0000000000	0.0000000000
128	MBT2A01V	1011.4812642500	-80.6000073157	102.0000020826	-201.7550397160	-179.9999900000	0.0000000000	0.0000000000
129	D305	1011.9867242500	-80.6000074039	102.0000020826	-202.2604997160	-179.9999900000	0.0000000000	0.0000000000
130	ITV2A01	1011.9867242500	-80.6000074039	102.0000020826	-202.2604997160	-179.9999900000	0.0000000000	0.0000000000
131	D326	1013.7911242500	-80.6000077188	102.0000020826	-204.0648997160	-179.9999900000	0.0000000000	0.0000000000
132	MQC2A02	1014.0911242500	-80.6000077712	102.0000020826	-204.3648997160	-179.9999900000	0.0000000000	0.0000000000
133	D327	1015.8636142500	-80.6000080805	102.0000020826	-206.1373897160	-179.9999900000	0.0000000000	0.0000000000
134	MBR2A01	1017.8668342500	-80.4039737928	102.0000020826	-208.1277628022	168.7500100000	0.0000000000	0.0000000000
135	D328	1022.4137742500	-79.5169105824	102.0000020826	-212.5873347799	168.7500100000	0.0000000000	0.0000000000
136	IPM2A03	1022.4137742500	-79.5169105824	102.0000020826	-212.5873347799	168.7500100000	0.0000000000	0.0000000000
137	D307	1022.6384242500	-79.4730835800	102.0000020826	-212.8076682008	168.7500100000	0.0000000000	0.0000000000
138	MQC2A03	1022.9384242500	-79.4145565347	102.0000020826	-213.1019037951	168.7500100000	0.0000000000	0.0000000000
139	D316	1023.3276642500	-79.3386196444	102.0000020826	-213.4836646709	168.7500100000	0.0000000000	0.0000000000
140	MBT2A03V	1023.3276642500	-79.3386196444	102.0000020826	-213.4836646807	168.7500100000	0.0000000000	0.0000000000
141	D329	1026.0370542600	-78.8100443387	102.0000020826	-216.1409946038	168.7500100000	0.0000000000	0.0000000000
142	D372	1026.1870542600	-78.7807808161	102.0000020826	-216.2881124010	168.7500100000	0.0000000000	0.0000000000
143	D330	1026.3990742600	-78.7394178023	102.0000020826	-216.4960585034	168.7500100000	0.0000000000	0.0000000000
144	IPM2A04	1026.3990742600	-78.7394178023	102.0000020826	-216.4960585034	168.7500100000	0.0000000000	0.0000000000
145	D307	1026.6237242600	-78.6955907999	102.0000020826	-216.7163919243	168.7500100000	0.0000000000	0.0000000000
146	MQC2A04	1026.9237242600	-78.6370637546	102.0000020826	-217.0106275186	168.7500100000	0.0000000000	0.0000000000
147	D308	1027.1168742600	-78.5993820920	102.0000020826	-217.2000662021	168.7500100000	0.0000000000	0.0000000000
148	MBT2A04H	1027.1168742700	-78.5993820901	102.0000020826	-217.2000662119	168.7500100000	0.0000000000	0.0000000000
149	D331	1027.5349642700	-78.5178168489	102.0000020826	-217.6101227440	168.7500100000	0.0000000000	0.0000000000
150	D332	1030.0223442700	-78.0325535095	102.0000020826	-220.0497085195	168.7500100000	0.0000000000	0.0000000000
151	D372	1030.1723442700	-78.0032899869	102.0000020826	-220.1968263167	168.7500100000	0.0000000000	0.0000000000
152	D330	1030.3843642700	-77.9619269731	102.0000020826	-220.4047724190	168.7500100000	0.0000000000	0.0000000000
153	IPM2A05	1030.3843642700	-77.9619269731	102.0000020826	-220.4047724190	168.7500100000	0.0000000000	0.0000000000
154	D307	1030.6090142700	-77.9180999707	102.0000020826	-220.6251058399	168.7500100000	0.0000000000	0.0000000000
155	MQC2A05	1030.9090142700	-77.8595729255	102.0000020826	-220.9193414343	168.7500100000	0.0000000000	0.0000000000
156	D316	1031.2982542700	-77.7836360352	102.0000020826	-221.3011023101	168.7500100000	0.0000000000	0.0000000000
157	MBT2A05V	1031.2982542800	-77.7836360332	102.0000020826	-221			

180	MBT2A08H	1058.7802643100	-66.4994518987	102.0000020826	-246.0620182477	146.2500100000	0.0000000000	0.0000000000
181	D337	1062.0477643100	-64.6841266365	102.0000020826	-248.7788455227	146.2500100000	0.0000000000	0.0000000000
182	IPM2A09	1062.0477643100	-64.6841266365	102.0000020826	-248.7788455227	146.2500100000	0.0000000000	0.0000000000
183	D307	1062.2724143100	-64.5593178163	102.0000020826	-248.9656351929	146.2500100000	0.0000000000	0.0000000000
184	MQC2A09	1062.5724143100	-64.3926467899	102.0000020826	-249.2150761057	146.2500100000	0.0000000000	0.0000000000
185	D316	1062.9616543100	-64.1763966889	102.0000020826	-249.5387173753	146.2500100000	0.0000000000	0.0000000000
186	MBT2A09V	1062.9616543100	-64.1763966833	102.0000020826	-249.5387173836	146.2500100000	0.0000000000	0.0000000000
187	D333	1067.3440043200	-61.7416941086	102.0000020826	-253.1825086640	146.2500100000	0.0000000000	0.0000000000
188	MBR2A04	1069.3472243200	-60.4729055161	102.0000020826	-254.7285325874	135.0000100000	0.0000000000	0.0000000000
189	D338	1070.8950643200	-59.3784175470	102.0000020826	-255.8230209387	135.0000100000	0.0000000000	0.0000000000
190	IPM2A10	1070.8950643200	-59.3784175470	102.0000020826	-255.8230209387	135.0000100000	0.0000000000	0.0000000000
191	D307	1071.1197143200	-59.2195660363	102.0000020826	-255.9818725048	135.0000100000	0.0000000000	0.0000000000
192	D371	1071.4197143200	-59.0074340390	102.0000020826	-256.1940045762	135.0000100000	0.0000000000	0.0000000000
193	D339	1073.8941643200	-57.2577339697	102.0000020826	-257.9437052562	135.0000100000	0.0000000000	0.0000000000
194	IPM2A11	1073.8941643200	-57.2577339697	102.0000020826	-257.9437052562	135.0000100000	0.0000000000	0.0000000000
195	D307	1074.1188143200	-57.0988824590	102.0000020826	-258.1025568224	135.0000100000	0.0000000000	0.0000000000
196	MQC2A11	1074.4188143200	-56.8867504617	102.0000020826	-258.3146888937	135.0000100000	0.0000000000	0.0000000000
197	D308	1074.6119643200	-56.7501728107	102.0000020826	-258.4512665924	135.0000100000	0.0000000000	0.0000000000
198	MBT2A11H	1074.6119643200	-56.7501728036	102.0000020826	-258.4512665994	135.0000100000	0.0000000000	0.0000000000
199	D334	1075.3135143300	-56.2541021279	102.0000020826	-258.9473374484	135.0000100000	0.0000000000	0.0000000000
200	ITV2A11	1075.3135143300	-56.2541021279	102.0000020826	-258.9473374484	135.0000100000	0.0000000000	0.0000000000
201	D326	1077.1179143300	-54.9781988746	102.0000020826	-260.2232411174	135.0000100000	0.0000000000	0.0000000000
202	D371	1077.4179143300	-54.7660668773	102.0000020826	-260.4353732184	135.0000100000	0.0000000000	0.0000000000
203	D327	1079.1904043300	-53.5127273974	102.0000020826	-261.6887131357	135.0000100000	0.0000000000	0.0000000000
204	MBR2A05	1081.1936243300	-51.9667039169	102.0000020826	-262.9575022679	123.7500100000	0.0000000000	0.0000000000
205	D328	1085.7405643300	-48.1860619188	102.0000020826	-265.4836474430	123.7500100000	0.0000000000	0.0000000000
206	D307	1085.9652143300	-47.9992722922	102.0000020826	-265.6084563285	123.7500100000	0.0000000000	0.0000000000
207	MQC2A13	1086.2652143300	-47.7498314376	102.0000020826	-265.7751274419	123.7500100000	0.0000000000	0.0000000000
208	D316	1086.6544543300	-47.4261902435	102.0000020826	-265.9913776559	123.7500100000	0.0000000000	0.0000000000
209	MBT2A13V	1086.6544543300	-47.4261902352	102.0000020826	-265.9913776615	123.7500100000	0.0000000000	0.0000000000
210	D329	1089.3638443400	-45.1734150450	102.0000020826	-267.4966344883	123.7500100000	0.0000000000	0.0000000000
211	D372	1089.5138443400	-45.0486946177	102.0000020826	-267.5799700450	123.7500100000	0.0000000000	0.0000000000
212	D330	1089.7258643400	-44.8724064511	102.0000020826	-267.6977620766	123.7500100000	0.0000000000	0.0000000000
213	IPM2A14	1089.7258643400	-44.8724064511	102.0000020826	-267.6977620766	123.7500100000	0.0000000000	0.0000000000
214	D307	1089.9505143400	-44.6856168244	102.0000020826	-267.8225709620	123.7500100000	0.0000000000	0.0000000000
215	MQC2A14	1090.2505143400	-44.4361759698	102.0000020826	-267.9892420755	123.7500100000	0.0000000000	0.0000000000
216	D308	1090.4436643400	-44.2755776330	102.0000020826	-268.0965504940	123.7500100000	0.0000000000	0.0000000000
217	MBT2A14H	1090.4436643400	-44.2755776246	102.0000020826	-268.0965504996	123.7500100000	0.0000000000	0.0000000000
218	D340	1093.3491343500	-41.8597678919	102.0000020826	-269.1074356611	123.7500100000	0.0000000000	0.0000000000
219	D372	1093.4991343500	-41.7350474646	102.0000020826	-269.7940791229	123.7500100000	0.0000000000	0.0000000000
220	D341	1093.9358043500	-41.3719696713	102.0000020826	-270.0366800399	123.7500100000	0.0000000000	0.0000000000
221	IPM2A15	1093.9358043500	-41.3719696713	102.0000020826	-270.0366800399	123.7500100000	0.0000000000	0.0000000000
222	MQC2A15	1094.2358043500	-41.1225288167	102.0000020826	-270.2033511533	123.7500100000	0.0000000000	0.0000000000
223	D316	1094.6250443500	-40.7988876226	102.0000020826	-270.4196013673	123.7500100000	0.0000000000	0.0000000000
224	MBT2A15V	1094.6250443500	-40.7988876143	102.0000020826	-270.4196013729	123.7500100000	0.0000000000	0.0000000000
225	D333	1099.0073943600	-37.1550971837	102.0000020826	-272.8543052195	123.7500100000	0.0000000000	0.0000000000
226	MBR2A06	1101.0106143600	-35.3912516306	102.0000020826	-273.7971007056	112.5000100000	0.0000000000	0.0000000000
227	D328	1105.5575543600	-31.1904271327	102.0000020826	-275.5371400447	112.5000100000	0.0000000000	0.0000000000
228	IPM2A16	1105.5575543600	-31.1904271327	102.0000020826	-275.5371400447	112.5000100000	0.0000000000	0.0000000000
229	D307	1105.7822043600	-30.9828776107	102.0000020826	-275.6231099140	112.5000100000	0.0000000000	0.0000000000
230	MQC2A16	1106.0822043600	-30.7057137710	102.0000020826	-275.7379149921	112.5000100000	0.0000000000	0.0000000000
231	D316	1106.4714443600	-30.3461029278	102.0000020826	-275.8868707541	112.5000100000	0.0000000000	0.0000000000
232	MBT2A16H	1106.4714443600	-30.3461029185	102.0000020826	-275.8868707579	112.5000100000	0.0000000000	0.0000000000
233	D333	1110.8537943700	-26.2973397419	102.0000020826	-277.5639242044	112.5000100000	0.0000000000	0.0000000000
234	MBR2A07	1112.8570143700	-24.3834557115	102.0000020826	-278.1444949426	101.2500100000	0.0000000000	0.0000000000
235	D342	1117.6286043700	-19.7035506378	102.0000020826	-279.0753867890	101.2500100000	0.0000000000	0.0000000000
236	IPM2A17	1117.6286043700	-19.7035506378	102.0000020826	-279.0753867890	101.2500100000	0.0000000000	0.0000000000
237	MQC2A17	1117.9286043700	-19.4093150639	102.0000020826	-279.1339139370	101.2500100000	0.0000000000	0.0000000000
238	D316	1118.3178443700	-19.0275542146	102.0000020826	-279.2098509606	101.2500100000	0.0000000000	0.0000000000
239	MBT2A17V	1118.3178443700	-19.0275542048	102.0000020826	-279.2098509625	101.2500100000	0.0000000000	0.0000000000
240	D336	1121.3892543800	-16.0151605913	102.0000020826	-279.8090538542	101.2500100000	0.0000000000	0.0000000000
241	IPM2A18	1121.3892543800	-16.0151605913	102.0000020826	-279.8090538542	101.2500100000	0.0000000000	0.0000000000
242	D307	1121.6139043800	-15.7948271857	102.0000020826	-279.8528809335	101.2500100000	0.0000000000	0.0000000000
243	MQC2A18	1121.9139043800	-15.5005916118	102.0000020826	-279.9114080815	101.2500100000	0.0000000000	0.0000000000
244	D308	1122.1070543800	-15.3111529415	102.0000020826	-279.9490898102	101.2500100000	0.0000000000	0.0000000000
245	MBT2A18H	1122.1070543800	-15.3111529317	102.0000020826	-279.9490898122	101.2500100000	0.0000000000	0.0000000000
246	D337	1125.3745543900	-12.1064371392	102.0000020826	-280.5865479987	101.2500100000	0.0000000000	0.0000000000
247	D307	1125.5992043900	-11.8861037336	102.0000020826	-280.6303750780	101.2500100000	0.0000000000	0.0000000000
248	MQC2A19	1125.8992043900	-11.5918681597	102.0000020826	-280.6889022260	101.2500100000	0.0000000000	0.0000000000
249	D316	1126.2884443900	-11.2101073104	102.0000020826	-280.7648392495	101.2500100000	0.0000000000	0.0000000000
250	MBT2A19V	1126.2884443900	-11.2101073006	102.0000020826	-280.7648392515	101.2500100000	0.0000000000	0.0000000000
251	D333	1130.6707944000	-6.9119630763	102.0000020826	-281.6197940743	101.2500100000	0.0000000000	0.0000000000
252	MBR2A08	1132.6740144000	-4.9215900585	102.0000020826	-281.8158290568	90.0000100000	0.0000000000	0.0000000000
253	D343	1134.4465044000	-3.1491000585	102.0000020826	-281.8158293662	90.0000100000	0.0000000000	0.0000000000
254	D371	1134.7465044000	-2.8491000585	102.0000020826	-281.8158294185	90.0000100000	0.0000000000	0.0000000000
255	D339	1137.2209544000	-0.3746500585	102.0000020826	-281.8158298504	90.0000100000	0.0000000000	0.0000000000
256	IPM2A21	1137.2209544000	-0.3746500585	102.0000020826	-281.8158298504	90.0000100000	0.0000000000	0.0000000000
257	D307	1137.4456044000	-0.1500000585	102.0000020826	-281.8158298896	90.0000100000	0.0000000000	0.0000000000
258	MQC2A21	1137.7456044000	0.1499999415	102.0000020826	-281.8158299420	90.0000100000	0.0000000000	0.0000000000
259	D308	1137.9387544000	0.3431499415	102.0000020826	-281.8158299757	90.0000100000	0.0000000000	0.0000000000
260	MBT2A21H	1137.9387544000	0.3431499515	102.0000020826	-281.8158299757	90.0000100000	0.0000000000	0.0000000000
261	D334	1138.6403044100	1.04469					

284	IPM2A25	1157.2625944300	19.4093060754	102.0000020826	-279.1339226650	78.7500100000	0.0000000000	0.0000000000
285	MQC2A25	1157.5625944300	19.7035416697	102.0000020826	-279.0753956197	78.7500100000	0.0000000000	0.0000000000
286	D316	1157.9518344400	20.0853025455	102.0000020826	-278.9994587294	78.7500100000	0.0000000000	0.0000000000
287	MBT2A25V	1157.9518344400	20.0853025553	102.0000020826	-278.9994587275	78.7500100000	0.0000000000	0.0000000000
288	D333	1162.3341844400	24.3834470781	102.0000020826	-278.1445054049	78.7500100000	0.0000000000	0.0000000000
289	MBR2A10	1164.3374044400	26.2973313112	102.0000020826	-277.5639353348	67.5000100000	0.0000000000	0.0000000000
290	D328	1168.8843444400	30.4981564165	102.0000020826	-275.8238974620	67.5000100000	0.0000000000	0.0000000000
291	IPM2A26	1168.8843444400	30.4981564165	102.0000020826	-275.8238974620	67.5000100000	0.0000000000	0.0000000000
292	D307	1169.1089944400	30.7057059684	102.0000020826	-275.7379276652	67.5000100000	0.0000000000	0.0000000000
293	MQC2A26	1169.4089944400	30.9828698482	102.0000020826	-275.6231226838	67.5000100000	0.0000000000	0.0000000000
294	D316	1169.7982344400	31.3424807435	102.0000020826	-275.4741670474	67.5000100000	0.0000000000	0.0000000000
295	MBT2A26H	1169.7982344400	31.3424807527	102.0000020826	-275.4741670435	67.5000100000	0.0000000000	0.0000000000
296	D333	1174.1805844500	35.3912445147	102.0000020826	-273.7971150104	67.5000100000	0.0000000000	0.0000000000
297	MBR2A11	1176.1838044500	37.1550903970	102.0000020826	-272.8543201400	56.2500100000	0.0000000000	0.0000000000
298	D342	1180.9553944500	41.1225229470	102.0000020826	-270.2033674643	56.2500100000	0.0000000000	0.0000000000
299	IPM2A27	1180.9553944500	41.1225229470	102.0000020826	-270.2033674643	56.2500100000	0.0000000000	0.0000000000
300	MQC2A27	1181.2553944500	41.3719638598	102.0000020826	-270.0366964379	56.2500100000	0.0000000000	0.0000000000
301	D316	1181.6446344500	41.6956051294	102.0000020826	-269.8204463369	56.2500100000	0.0000000000	0.0000000000
302	MBT2A27V	1181.6446344500	41.6956051378	102.0000020826	-269.8204463313	56.2500100000	0.0000000000	0.0000000000
303	D336	1184.7160444600	44.2493895175	102.0000020826	-268.1140628076	56.2500100000	0.0000000000	0.0000000000
304	IPM2A28	1184.7160444600	44.2493895175	102.0000020826	-268.1140628076	56.2500100000	0.0000000000	0.0000000000
305	D307	1184.9406944600	44.4361791877	102.0000020826	-267.9892539874	56.2500100000	0.0000000000	0.0000000000
306	MQC2A28	1185.2406944600	44.6856201005	102.0000020826	-267.8225829610	56.2500100000	0.0000000000	0.0000000000
307	D308	1185.4338444600	44.8462184748	102.0000020826	-267.7152745985	56.2500100000	0.0000000000	0.0000000000
308	MBT2A28H	1185.4338444600	44.8462184831	102.0000020826	-267.7152745930	56.2500100000	0.0000000000	0.0000000000
309	D337	1188.7013444700	47.5630457582	102.0000020826	-265.8999493308	56.2500100000	0.0000000000	0.0000000000
310	D307	1188.9259944700	47.7498354284	102.0000020826	-265.7751405105	56.2500100000	0.0000000000	0.0000000000
311	MQC2A29	1189.2259944700	47.9992763411	102.0000020826	-265.6084694841	56.2500100000	0.0000000000	0.0000000000
312	D344	1193.9975844700	51.9667088912	102.0000020826	-262.9575168084	56.2500100000	0.0000000000	0.0000000000
313	MBR2A12	1196.0008044700	53.5127328146	102.0000020826	-261.6887282160	45.0000100000	0.0000000000	0.0000000000
314	D343	1197.7372944700	54.7660727319	102.0000020826	-260.4353887361	45.0000100000	0.0000000000	0.0000000000
315	D371	1198.0732944700	54.9782048033	102.0000020826	-260.2232567388	45.0000100000	0.0000000000	0.0000000000
316	D316	1198.4625344700	55.2534390948	102.0000020826	-259.9480225433	45.0000100000	0.0000000000	0.0000000000
317	MBT2A30V	1198.4625344800	55.2534391019	102.0000020826	-259.9480225362	45.0000100000	0.0000000000	0.0000000000
318	D345	1200.5477444800	56.7279054904	102.0000020826	-258.4735566624	45.0000100000	0.0000000000	0.0000000000
319	IPM2A31	1200.5477444800	56.7279054904	102.0000020826	-258.4735566624	45.0000100000	0.0000000000	0.0000000000
320	D307	1200.7723944800	56.8867570566	102.0000020826	-258.3147051517	45.0000100000	0.0000000000	0.0000000000
321	MQC2A31	1201.0723944800	57.0988891279	102.0000020826	-258.1025731544	45.0000100000	0.0000000000	0.0000000000
322	D308	1201.2655444800	57.2354668266	102.0000020826	-257.9659955034	45.0000100000	0.0000000000	0.0000000000
323	MBT2A31H	1201.2655444900	57.2354668336	102.0000020826	-257.9659954964	45.0000100000	0.0000000000	0.0000000000
324	D334	1201.9670944900	57.7315376826	102.0000020826	-257.4699248206	45.0000100000	0.0000000000	0.0000000000
325	ITV2A31	1201.9670944900	57.7315376826	102.0000020826	-257.4699248206	45.0000100000	0.0000000000	0.0000000000
326	D326	1203.7714944900	59.0074413812	102.0000020826	-256.1940215673	45.0000100000	0.0000000000	0.0000000000
327	D371	1204.0714944900	59.2195734526	102.0000020826	-255.9818895700	45.0000100000	0.0000000000	0.0000000000
328	D327	1205.8439844900	60.4729133699	102.0000020826	-254.7285500901	45.0000100000	0.0000000000	0.0000000000
329	MBR2A13	1207.8472044900	61.7417025021	102.0000020826	-253.1825266096	33.7500100000	0.0000000000	0.0000000000
330	D328	1212.3941444900	64.2678476772	102.0000020826	-249.4018846116	33.7500100000	0.0000000000	0.0000000000
331	D307	1212.6187944900	64.3926565627	102.0000020826	-249.2150949850	33.7500100000	0.0000000000	0.0000000000
332	MQC2A33	1212.9187944900	64.5593276761	102.0000020826	-248.9656541304	33.7500100000	0.0000000000	0.0000000000
333	D316	1213.3080344900	64.7755778901	102.0000020826	-248.6420129362	33.7500100000	0.0000000000	0.0000000000
334	MBT2A33V	1213.3080345000	64.7755778957	102.0000020826	-248.6420129279	33.7500100000	0.0000000000	0.0000000000
335	D329	1216.0174245000	66.2808347225	102.0000020826	-246.3892377377	33.7500100000	0.0000000000	0.0000000000
336	D372	1216.1674245000	66.3641702792	102.0000020826	-246.2645173104	33.7500100000	0.0000000000	0.0000000000
337	D330	1216.3794445000	66.4819623108	102.0000020826	-246.0882291438	33.7500100000	0.0000000000	0.0000000000
338	IPM2A34	1216.3794445000	66.4819623108	102.0000020826	-246.0882291438	33.7500100000	0.0000000000	0.0000000000
339	D307	1216.6040945000	66.6067711962	102.0000020826	-245.9014395172	33.7500100000	0.0000000000	0.0000000000
340	MQC2A34	1216.9040945000	66.7734423097	102.0000020826	-245.6519986626	33.7500100000	0.0000000000	0.0000000000
341	D308	1217.0972445000	66.8807507282	102.0000020826	-245.4914003257	33.7500100000	0.0000000000	0.0000000000
342	MBT2A34H	1217.0972445100	66.8807507338	102.0000020826	-245.4914003174	33.7500100000	0.0000000000	0.0000000000
343	D340	1220.0027145100	68.4949438003	102.0000020826	-243.0755958466	33.7500100000	0.0000000000	0.0000000000
344	D372	1220.1527145100	68.5782793571	102.0000020826	-242.9508701573	33.7500100000	0.0000000000	0.0000000000
345	D341	1220.5893845100	68.8208802741	102.0000020826	-242.5877923641	33.7500100000	0.0000000000	0.0000000000
346	IPM2A35	1220.5893845100	68.8208802741	102.0000020826	-242.5877923641	33.7500100000	0.0000000000	0.0000000000
347	MQC2A35	1220.8893845100	68.9875513875	102.0000020826	-242.3383515095	33.7500100000	0.0000000000	0.0000000000
348	D316	1221.2786245100	69.2038016015	102.0000020826	-242.0147103153	33.7500100000	0.0000000000	0.0000000000
349	MBT2A35V	1221.2786245200	69.2038016071	102.0000020826	-242.0147103070	33.7500100000	0.0000000000	0.0000000000
350	D333	1225.6609745200	71.6385054537	102.0000020826	-238.3709198765	33.7500100000	0.0000000000	0.0000000000
351	MBR2A14	1227.6641945200	72.5813009398	102.0000020826	-236.6070743233	22.5000100000	0.0000000000	0.0000000000
352	D328	1232.2111345200	74.3213402789	102.0000020826	-232.4062498254	22.5000100000	0.0000000000	0.0000000000
353	IPM2A36	1232.2111345200	74.3213402789	102.0000020826	-232.4062498254	22.5000100000	0.0000000000	0.0000000000
354	D307	1232.4357845200	74.4073101482	102.0000020826	-232.1987003034	22.5000100000	0.0000000000	0.0000000000
355	MQC2A36	1232.7357845200	74.5221152263	102.0000020826	-231.9215364637	22.5000100000	0.0000000000	0.0000000000
356	D308	1232.9289345200	74.5960305624	102.0000020826	-231.7430891449	22.5000100000	0.0000000000	0.0000000000
357	MBT2A36H	1232.9289345300	74.5960305662	102.0000020826	-231.7430891357	22.5000100000	0.0000000000	0.0000000000
358	D346	1237.5073745300	76.3481244386	102.0000020826	-227.5131624347	22.5000100000	0.0000000000	0.0000000000
359	MBR2A15	1239.5105945300	76.9286951768	102.0000020826	-225.5992784042	11.2500100000	0.0000000000	0.0000000000
360	D342	1244.2821845300	77.8595870232	102.0000020826	-220.9193733306	11.2500100000	0.0000000000	0.0000000000
361	IPM2A37	1244.2821845300	77.8595870232	102.0000020826	-220.9193733306	11.2500100000	0.0000000000	0.0000000000
362	MQC2A37	1244.5821845300	77.9181141712	102.0000020826	-220.6251377567	11.2500100000	0.0000000000	0.0000000000
363	D316	1244.9714245300	77.9940511948	102.0000020826	-220.2433769074	11.2500100000	0.0000000000	0.0000000000
364	MBT2A37V	1244.9714245400	77.9940511967	102.0000020826	-220.2433768976	11.2500100000	0.0000000000	0.0000000000
365	D336	1248.0428345400	78.5932540884	102.0000020826	-217.2309832841			

388	D347	1267.0759845700	80.6000306414	102.0000020826	-198.3890227411	0.0000100000	0.0000000000	0.0000000000
389	IPM2R02	1267.0759845700	80.6000306414	102.0000020826	-198.3890227411	0.0000100000	0.0000000000	0.0000000000
390	D307	1267.3006345700	80.6000306806	102.0000020826	-198.1643727411	0.0000100000	0.0000000000	0.0000000000
391	MQC2R02	1267.6006345700	80.6000307330	102.0000020826	-197.8643727411	0.0000100000	0.0000000000	0.0000000000
392	D316	1267.9898745700	80.6000308009	102.0000020826	-197.4751327411	0.0000100000	0.0000000000	0.0000000000
393	MBT2R02V	1267.9898745800	80.6000308009	102.0000020826	-197.4751327311	0.0000100000	0.0000000000	0.0000000000
394	D318	1270.2759845800	80.6000311999	102.0000020826	-195.1890227311	0.0000100000	0.0000000000	0.0000000000
395	IPM2R03	1270.2759845800	80.6000311999	102.0000020826	-195.1890227311	0.0000100000	0.0000000000	0.0000000000
396	D307	1270.5006345800	80.6000312391	102.0000020826	-194.9643727311	0.0000100000	0.0000000000	0.0000000000
397	MQC2R03	1270.8006345800	80.6000312915	102.0000020826	-194.6643727311	0.0000100000	0.0000000000	0.0000000000
398	D308	1270.9937845800	80.6000313252	102.0000020826	-194.4712227311	0.0000100000	0.0000000000	0.0000000000
399	MBT2R03H	1270.9937845900	80.6000313252	102.0000020826	-194.4712227211	0.0000100000	0.0000000000	0.0000000000
400	D348	1273.4759845900	80.6000317584	102.0000020826	-191.9890227211	0.0000100000	0.0000000000	0.0000000000
401	IPM2R04	1273.4759845900	80.6000317584	102.0000020826	-191.9890227211	0.0000100000	0.0000000000	0.0000000000
402	D307	1273.7006345900	80.6000317976	102.0000020826	-191.7643727211	0.0000100000	0.0000000000	0.0000000000
403	MQC2R04	1274.0006345900	80.6000318500	102.0000020826	-191.4643727211	0.0000100000	0.0000000000	0.0000000000
404	D316	1274.3898745900	80.6000319179	102.0000020826	-191.0751327211	0.0000100000	0.0000000000	0.0000000000
405	MBT2R04V	1274.3898746000	80.6000319179	102.0000020826	-191.0751327111	0.0000100000	0.0000000000	0.0000000000
406	D349	1278.5006346000	80.6000326354	102.0000020826	-186.9643727111	0.0000100000	0.0000000000	0.0000000000
407	MQC2R05	1278.8006346000	80.6000326877	102.0000020826	-186.6643727111	0.0000100000	0.0000000000	0.0000000000
408	D350	1279.8759846000	80.6000328754	102.0000020826	-185.5890227111	0.0000100000	0.0000000000	0.0000000000
409	IPM2R06	1279.8759846000	80.6000328754	102.0000020826	-185.5890227111	0.0000100000	0.0000000000	0.0000000000
410	D307	1280.1006346000	80.6000329146	102.0000020826	-185.3643727111	0.0000100000	0.0000000000	0.0000000000
411	MQC2R06	1280.4006346000	80.6000329670	102.0000020826	-185.0643727111	0.0000100000	0.0000000000	0.0000000000
412	D308	1280.5937846000	80.6000330007	102.0000020826	-184.8712227111	0.0000100000	0.0000000000	0.0000000000
413	MBT2R06H	1280.5937846100	80.6000330007	102.0000020826	-184.8712227011	0.0000100000	0.0000000000	0.0000000000
414	D351	1281.7006346100	80.6000331939	102.0000020826	-183.7643727011	0.0000100000	0.0000000000	0.0000000000
415	MQC2R07	1282.0006346100	80.6000332462	102.0000020826	-183.4643727011	0.0000100000	0.0000000000	0.0000000000
416	D316	1282.3898746100	80.6000333142	102.0000020826	-183.0751327011	0.0000100000	0.0000000000	0.0000000000
417	MBT2R07V	1282.3898746200	80.6000333142	102.0000020826	-183.0751326911	0.0000100000	0.0000000000	0.0000000000
418	D305	1282.8953346200	80.6000334024	102.0000020826	-182.5696726911	0.0000100000	0.0000000000	0.0000000000
419	ITV2R07	1282.8953346200	80.6000334024	102.0000020826	-182.5696726911	0.0000100000	0.0000000000	0.0000000000
420	D352A	1283.2491846200	80.6000334642	102.0000020826	-182.2158226911	0.0000100000	0.0000000000	0.0000000000
421	MAI2R01	1284.2503246200	80.6000336381	101.9173136233	-181.2192503438	0.0000100000	-9.4862600000	0.0000000000
422	IPMAI2R0	1284.2503246200	80.6000336381	101.9173136233	-181.2192503438	0.0000100000	-9.4862600000	0.0000000000
423	D353	1287.2919146200	80.6000341617	101.4160258853	-178.2192536218	0.0000100000	-9.4862600000	0.0000000000
424	MAI2R03	1288.2930546200	80.6000343356	101.3333374260	-177.2226812745	0.0000100000	0.0000000000	0.0000000000
425	D354	1288.5698146200	80.6000343839	101.3333374260	-176.9459212745	0.0000100000	0.0000000000	0.0000000000
426	IPM2R08	1288.5698146200	80.6000343839	101.3333374260	-176.9459212745	0.0000100000	0.0000000000	0.0000000000
427	D307	1288.7944646200	80.6000344231	101.3333374260	-176.7212712745	0.0000100000	0.0000000000	0.0000000000
428	MQC2R08	1289.0944646200	80.6000344755	101.3333374260	-176.4212712745	0.0000100000	0.0000000000	0.0000000000
429	D355	1290.8448146200	80.6000347810	101.3333374260	-174.6709212745	0.0000100000	0.0000000000	0.0000000000
430	IPM2R09	1290.8448146200	80.6000347810	101.3333374260	-174.6709212745	0.0000100000	0.0000000000	0.0000000000
431	D307	1291.0694646200	80.6000348202	101.3333374260	-174.4462712745	0.0000100000	0.0000000000	0.0000000000
432	MQC2R09	1291.3694646200	80.6000348726	101.3333374260	-174.1462712745	0.0000100000	0.0000000000	0.0000000000
433	D308	1291.5626146200	80.6000349063	101.3333374260	-173.9531212745	0.0000100000	0.0000000000	0.0000000000
434	MBT2R09H	1291.5626146300	80.6000349063	101.3333374260	-173.9531212645	0.0000100000	0.0000000000	0.0000000000
435	D304	1291.7587046300	80.6000349405	101.3333374260	-173.7570312645	0.0000100000	0.0000000000	0.0000000000
436	MBT2R09V	1291.7587046400	80.6000349405	101.3333374260	-173.7570312545	0.0000100000	0.0000000000	0.0000000000
437	D356A	1295.6956446400	80.6000356276	101.3333374260	-169.8200912545	0.0000100000	0.0000000000	0.0000000000
438	IPM2R10	1295.6956446400	80.6000356276	101.3333374260	-169.8200912545	0.0000100000	0.0000000000	0.0000000000
439	D302	1295.9952946400	80.6000356799	101.3333374260	-169.5204412545	0.0000100000	0.0000000000	0.0000000000
440	MQB2R10	1296.1452946400	80.6000357061	101.3333374260	-169.3704412545	0.0000100000	0.0000000000	0.0000000000
441	D303	1296.4134446400	80.6000357529	101.3333374260	-169.1022912545	0.0000100000	0.0000000000	0.0000000000
442	MBT2R10H	1296.4134446500	80.6000357529	101.3333374260	-169.1022912445	0.0000100000	0.0000000000	0.0000000000
443	D304	1296.6095346500	80.6000357871	101.3333374260	-168.9062012445	0.0000100000	0.0000000000	0.0000000000
444	MBT2R10V	1296.6095346600	80.6000357871	101.3333374260	-168.9062012345	0.0000100000	0.0000000000	0.0000000000
445	D357	1297.0439246600	80.6000358629	101.3333374260	-168.4718112345	0.0000100000	0.0000000000	0.0000000000
446	MAL2R04	1298.5461446600	80.6000361236	101.1921609421	-166.9784730403	0.0000100000	-10.8011100000	0.0000000000
447	D358A	1304.4032446600	80.6000371277	100.0945393882	-161.2251394558	0.0000100000	-10.8011100000	0.0000000000
448	MAW2R06	1305.4091946600	80.6000373023	100.0000016481	-160.2251370883	0.0000100000	0.0000000000	0.0000000000

1

STOP

Arc3.outd

LDIMAT VERSION 2.9 PROD
ODATE AND TIME OF THIS RUN: 12-JUN-2007 12:48:15

XSIF Parser Version 2.1
Version Date: 01-JAN-2004
Run: 12-JUN-2007 12:48:15
XSIF Parser developed by NLC Department,
Stanford Linear Accelerator Center.

UTRANSPORT

TITLE

CONVERTED FROM ../../OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//ARC3.OPT

- 5 MAQ3S01: SBEND, L=1.00217, ANGLE=6.5402, K1=-0, &
E1=0, E2=6.54021, HGAP=0.01905, &
HGAPX=0.01905, &
FINT=0.5, TILT=90
- 10 D400: DRIFT, L=1.00655
MAS3S02: SBEND, L=1.01467, ANGLE=6.11302, K1=-0, &
E1=-6.54021, E2=12.6529, HGAP=0.023749, &
HGAPX=0.0237492, &
FINT=0.5, TILT=90
- 15 D401A: DRIFT, L=1.92778
MAV3S03: SBEND, L=2.00407, ANGLE=-12.6532, K1=-0, &
E1=-6.32662, E2=-6.32662, HGAP=0.012954, &
HGAPX=0.012954, &
FINT=0.5, TILT=90
- 20 D402A: DRIFT, L=0.32546
IPM3S01: MONITOR, L=0
D403: DRIFT, L=0.22465
MQA3S01: QUADRUPOLE, L=0.3, K1=-0.714857, TILT=0

D404: DRIFT, L=0.19315
25 MBC3S01H: GKICK, L=1E-08, DXP=0, DYP=0
D405: DRIFT, L=0.19609
MBC3S01V: GKICK, L=1E-08, DXP=0, DYP=0
D406: DRIFT, L=1.01346
ITV3S01: MONITOR, L=0
30 D407: DRIFT, L=2.57265
IPM3S02: MONITOR, L=0
MQA3S02: QUADRUPOLE, L=0.3, K1=1.00929, TILT=0
MBC3S02H: GKICK, L=1E-08, DXP=0, DYP=0
MBC3S02V: GKICK, L=1E-08, DXP=0, DYP=0
35 D408: DRIFT, L=1.75591
MBC3S03H: GKICK, L=1E-08, DXP=0, DYP=0
D409: DRIFT, L=0.55485
MQA3S03: QUADRUPOLE, L=0.3, K1=-1.25862, TILT=0
IPM3S03: MONITOR, L=0
40 D410: DRIFT, L=0.40035
MAA3S04: SBEND, L=1.00037, ANGLE=5.36784, K1=-0, &
E1=2.68393, E2=2.68393, HGAP=0.012827, &
HGAPX=0.012827, &
FINT=0.5, TILT=90
45 D411: DRIFT, L=4.51982
MAA3S06: SBEND, L=1.00037, ANGLE=-5.36784, K1=-0, &
E1=-2.68393, E2=-2.68393, HGAP=0.012827, &
HGAPX=0.012827, &
FINT=0.5, TILT=90
50 D412A: DRIFT, L=1.96834
MQA3S04: QUADRUPOLE, L=0.3, K1=-1.56439, TILT=0
D413: DRIFT, L=0.8947
ITV3S04: MONITOR, L=0
D414: DRIFT, L=0.58065
55 IPM3S05: MONITOR, L=0
MQA3S05: QUADRUPOLE, L=0.3, K1=1.22445, TILT=0
MBC3S05H: GKICK, L=1E-08, DXP=0, DYP=0
MBC3S05V: GKICK, L=1E-08, DXP=0, DYP=0
D415: DRIFT, L=1.31076
60 MQA3S06: QUADRUPOLE, L=0.3, K1=0.543139, TILT=0
D417: DRIFT, L=3.08611
IPM3S07: MONITOR, L=0
MQA3S07: QUADRUPOLE, L=0.3, K1=-1.46771, TILT=0
MBC3S07H: GKICK, L=1E-08, DXP=0, DYP=0
65 MBC3S07V: GKICK, L=1E-08, DXP=0, DYP=0
IPM3S08: MONITOR, L=0
MQA3S08: QUADRUPOLE, L=0.3, K1=1.65132, TILT=0
MBC3S08H: GKICK, L=1E-08, DXP=0, DYP=0
MBC3S08V: GKICK, L=1E-08, DXP=0, DYP=0
70 IPM3S09: MONITOR, L=0
MQA3S09: QUADRUPOLE, L=0.3, K1=-1.45272, TILT=0
MBC3S09H: GKICK, L=1E-08, DXP=0, DYP=0
MBC3S09V: GKICK, L=1E-08, DXP=0, DYP=0
IPM3S10: MONITOR, L=0
75 MQA3S10: QUADRUPOLE, L=0.3, K1=1.09153, TILT=0
MBC3S10H: GKICK, L=1E-08, DXP=0, DYP=0
MBC3S10V: GKICK, L=1E-08, DXP=0, DYP=0
D418: DRIFT, L=15.6361
IPM3E01: MONITOR, L=0
80 D419: DRIFT, L=0.29965
MQB3E01: QUADRUPOLE, L=0.15, K1=-0.686244, TILT=0
D420: DRIFT, L=0.26815
MBM3E01H: GKICK, L=1E-08, DXP=0, DYP=0
MBM3E01V: GKICK, L=1E-08, DXP=0, DYP=0
85 D421: DRIFT, L=0.50546
IHA3E01: MONITOR, L=0
D422: DRIFT, L=0.4803
MBW3E01: SBEND, L=0.500137, ANGLE=-2.32225, K1=-0, &
E1=-0, E2=-2.32225, HGAP=0, &
90 HGAPX=0, &
FINT=0.5, TILT=0
D423: DRIFT, L=5.75473
MBX3E02: SBEND, L=1.00027, ANGLE=4.64449, K1=-0, &
E1=2.32225, E2=2.32225, HGAP=0, &
95 HGAPX=0, &
FINT=0.5, TILT=0
MBW3E03: SBEND, L=0.500137, ANGLE=-2.32225, K1=-0, &
E1=-2.32225, E2=-0, HGAP=0, &
100 HGAPX=0, &
FINT=0.5, TILT=0
D424: DRIFT, L=1.15034
IPM3E02: MONITOR, L=0
MQB3E02: QUADRUPOLE, L=0.15, K1=0.681826, TILT=0
MBM3E02H: GKICK, L=1E-08, DXP=0, DYP=0
105 MBM3E02V: GKICK, L=1E-08, DXP=0, DYP=0
IPM3E03: MONITOR, L=0
MQB3E03: QUADRUPOLE, L=0.15, K1=-0.686244, TILT=0
MBM3E03H: GKICK, L=1E-08, DXP=0, DYP=0
MBM3E03V: GKICK, L=1E-08, DXP=0, DYP=0
110 IPM3A01: MONITOR, L=0
MQA3A01: QUADRUPOLE, L=0.3, K1=0.47216, TILT=0
MBC3A01H: GKICK, L=1E-08, DXP=0, DYP=0
MBC3A01V: GKICK, L=1E-08, DXP=0, DYP=0
ITV3A01: MONITOR, L=0
115 D425B: DRIFT, L=0.00277
D425: DRIFT, L=2.81978
MBE3A01: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
120 FINT=0.5, TILT=0
D426: DRIFT, L=2.43653
MBE3A02: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
125 FINT=0.5, TILT=0
D427: DRIFT, L=3.48983
IPM3A02: MONITOR, L=0

MQA3A02: QUADRUPOLE, L=0.3, K1=-0.569422, TILT=0
D428: DRIFT, L=0.38924
130 MBC3A02V: GKICK, L=1E-08, DXP=0, DYP=0
D429: DRIFT, L=2.74292
IPM3A03: MONITOR, L=0
MQA3A03: QUADRUPOLE, L=0.3, K1=1.02863, TILT=0
MBC3A03H: GKICK, L=1E-08, DXP=0, DYP=0
135 D430: DRIFT, L=0.41809
IHA3A03: MONITOR, L=0
D431: DRIFT, L=2.52093
IPM3A04: MONITOR, L=0
MQA3A04: QUADRUPOLE, L=0.3, K1=-0.569422, TILT=0
MBC3A04V: GKICK, L=1E-08, DXP=0, DYP=0
140 D432: DRIFT, L=3.32523
MBE3A03: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
145 MBE3A04: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
150 IPM3A05: MONITOR, L=0
MQA3A05: QUADRUPOLE, L=0.3, K1=0.545625, TILT=0
MBC3A05H: GKICK, L=1E-08, DXP=0, DYP=0
D433: DRIFT, L=3.52133
MBE3A05: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
155 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
MBE3A06: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
160 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM3A06: MONITOR, L=0
MQA3A06: QUADRUPOLE, L=0.3, K1=-0.569422, TILT=0
MBC3A06V: GKICK, L=1E-08, DXP=0, DYP=0
165 D434: DRIFT, L=2.74293
IPM3A07: MONITOR, L=0
MQA3A07: QUADRUPOLE, L=0.3, K1=1.02863, TILT=0
MBC3A07H: GKICK, L=1E-08, DXP=0, DYP=0
170 D435: DRIFT, L=2.93902
IPM3A08: MONITOR, L=0
MQA3A08: QUADRUPOLE, L=0.3, K1=-0.569422, TILT=0
MBC3A08V: GKICK, L=1E-08, DXP=0, DYP=0
D436: DRIFT, L=3.32524
175 MBE3A07: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
MBE3A08: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
180 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM3A09: MONITOR, L=0
MQA3A09: QUADRUPOLE, L=0.3, K1=0.545625, TILT=0
MBC3A09H: GKICK, L=1E-08, DXP=0, DYP=0
185 D437: DRIFT, L=0.70155
ITV3A09: MONITOR, L=0
MBE3A09: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
190 FINT=0.5, TILT=0
MBE3A10: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
195 IPM3A10: MONITOR, L=0
MQA3A10: QUADRUPOLE, L=0.3, K1=-0.569422, TILT=0
MBC3A10V: GKICK, L=1E-08, DXP=0, DYP=0
MQA3A11: QUADRUPOLE, L=0.3, K1=1.02863, TILT=0
MBC3A11H: GKICK, L=1E-08, DXP=0, DYP=0
200 D438: DRIFT, L=3.16367
IPM3A12: MONITOR, L=0
MQA3A12: QUADRUPOLE, L=0.3, K1=-0.569422, TILT=0
MBC3A12V: GKICK, L=1E-08, DXP=0, DYP=0
MBE3A11: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
205 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
MBE3A12: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
210 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM3A13: MONITOR, L=0
MQA3A13: QUADRUPOLE, L=0.3, K1=0.545625, TILT=0
MBC3A13H: GKICK, L=1E-08, DXP=0, DYP=0
215 MBE3A13: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
MBE3A14: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
220 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
D439: DRIFT, L=3.71448
IPM3A14: MONITOR, L=0
225 MQA3A14: QUADRUPOLE, L=0.3, K1=-0.569422, TILT=0
MBC3A14V: GKICK, L=1E-08, DXP=0, DYP=0
MQA3A15: QUADRUPOLE, L=0.3, K1=1.02863, TILT=0
MBC3A15H: GKICK, L=1E-08, DXP=0, DYP=0
IPM3A16: MONITOR, L=0
230 MQA3A16: QUADRUPOLE, L=0.3, K1=-0.569422, TILT=0
MBC3A16V: GKICK, L=1E-08, DXP=0, DYP=0

MBE3A15: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
235 MBE3A16: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
240 IPM3A17: MONITOR, L=0
MQA3A17: QUADRUPOLE, L=0.3, K1=0.545625, TILT=0
MBC3A17H: GKICK, L=1E-08, DXP=0, DYP=0
ITV3A17: MONITOR, L=0
MBE3A17: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
245 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
MBE3A18: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
250 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM3A18: MONITOR, L=0
MQA3A18: QUADRUPOLE, L=0.3, K1=-0.569422, TILT=0
MBC3A18V: GKICK, L=1E-08, DXP=0, DYP=0
255 MQA3A19: QUADRUPOLE, L=0.3, K1=1.02863, TILT=0
MBC3A19H: GKICK, L=1E-08, DXP=0, DYP=0
IPM3A20: MONITOR, L=0
MQA3A20: QUADRUPOLE, L=0.3, K1=-0.569422, TILT=0
MBC3A20V: GKICK, L=1E-08, DXP=0, DYP=0
260 MBE3A19: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
265 MBE3A20: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM3A21: MONITOR, L=0
MQA3A21: QUADRUPOLE, L=0.3, K1=0.545625, TILT=0
270 MBC3A21H: GKICK, L=1E-08, DXP=0, DYP=0
MBE3A21: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
275 MBE3A22: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM3A22: MONITOR, L=0
280 MQA3A22: QUADRUPOLE, L=0.3, K1=-0.569422, TILT=0
MBC3A22V: GKICK, L=1E-08, DXP=0, DYP=0
MQA3A23: QUADRUPOLE, L=0.3, K1=1.02863, TILT=0
MBC3A23H: GKICK, L=1E-08, DXP=0, DYP=0
285 IPM3A24: MONITOR, L=0
MQA3A24: QUADRUPOLE, L=0.3, K1=-0.569422, TILT=0
MBC3A24V: GKICK, L=1E-08, DXP=0, DYP=0
MBE3A23: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
290 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
MBE3A24: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
295 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM3A25: MONITOR, L=0
MQA3A25: QUADRUPOLE, L=0.3, K1=0.545625, TILT=0
MBC3A25H: GKICK, L=1E-08, DXP=0, DYP=0
ITV3A25: MONITOR, L=0
300 MBE3A25: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
MBE3A26: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
305 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM3A26: MONITOR, L=0
MQA3A26: QUADRUPOLE, L=0.3, K1=-0.569422, TILT=0
MBC3A26V: GKICK, L=1E-08, DXP=0, DYP=0
310 MQA3A27: QUADRUPOLE, L=0.3, K1=1.02863, TILT=0
MBC3A27H: GKICK, L=1E-08, DXP=0, DYP=0
IPM3A28: MONITOR, L=0
MQA3A28: QUADRUPOLE, L=0.3, K1=-0.569422, TILT=0
MBC3A28V: GKICK, L=1E-08, DXP=0, DYP=0
315 MBE3A27: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
MBE3A28: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
320 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM3A29: MONITOR, L=0
MQA3A29: QUADRUPOLE, L=0.3, K1=0.545625, TILT=0
MBC3A29H: GKICK, L=1E-08, DXP=0, DYP=0
325 MBE3A29: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
330 MBE3A30: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM3A30: MONITOR, L=0
335 MQA3A30: QUADRUPOLE, L=0.3, K1=-0.569422, TILT=0

MBC3A30V: GKICK, L=1E-08, DXP=0, DYP=0
MQA3A31: QUADRUPOLE, L=0.3, K1=1.02863, TILT=0
MBC3A31H: GKICK, L=1E-08, DXP=0, DYP=0
IPM3A32: MONITOR, L=0
340 MQA3A32: QUADRUPOLE, L=0.3, K1=-0.569422, TILT=0
D440: DRIFT, L=3.71448
MBE3A31: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
345 MBE3A32: SBEND, L=1.0004, ANGLE=5.62499, K1=-0.238659, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
350 D427A: DRIFT, L=3.49258
IPM3R01: MONITOR, L=0
MQA3R01: QUADRUPOLE, L=0.3, K1=0.718402, TILT=0
MBC3R01H: GKICK, L=1E-08, DXP=0, DYP=0
ITV3R01: MONITOR, L=0
355 D441: DRIFT, L=2.58065
IPM3R02: MONITOR, L=0
MQA3R02: QUADRUPOLE, L=0.3, K1=-1.42522, TILT=0
MBC3R02H: GKICK, L=1E-08, DXP=0, DYP=0
MBC3R02V: GKICK, L=1E-08, DXP=0, DYP=0
360 IPM3R03: MONITOR, L=0
MQA3R03: QUADRUPOLE, L=0.3, K1=0.693929, TILT=0
MBC3R03H: GKICK, L=1E-08, DXP=0, DYP=0
D442: DRIFT, L=3.2822
IPM3R04: MONITOR, L=0
365 MQA3R04: QUADRUPOLE, L=0.3, K1=-0.920703, TILT=0
MBC3R04H: GKICK, L=1E-08, DXP=0, DYP=0
MBC3R04V: GKICK, L=1E-08, DXP=0, DYP=0
D443: DRIFT, L=3.31076
MQA3R05: QUADRUPOLE, L=0.3, K1=0.0249738, TILT=0
370 D444: DRIFT, L=1.47535
IPM3R06: MONITOR, L=0
MQA3R06: QUADRUPOLE, L=0.3, K1=1.00775, TILT=0
MBC3R06H: GKICK, L=1E-08, DXP=0, DYP=0
D445: DRIFT, L=1.50685
375 MQA3R07: QUADRUPOLE, L=0.3, K1=-0.877384, TILT=0
MBC3R07V: GKICK, L=1E-08, DXP=0, DYP=0
D446A: DRIFT, L=1.57912
MAA3R01: SBEND, L=1.00037, ANGLE=-5.36784, K1=-0, &
E1=-4.22393, E2=-4.22393, HGAP=0.0127237, &
HGAPX=0.0127237, &
380 FINT=0.5, TILT=90
MAA3R03: SBEND, L=1.00037, ANGLE=5.36784, K1=-0, &
E1=4.22393, E2=4.22393, HGAP=0.0127237, &
HGAPX=0.0127237, &
385 FINT=0.5, TILT=90
D447: DRIFT, L=0.400347
IPM3R08: MONITOR, L=0
MQA3R08: QUADRUPOLE, L=0.3, K1=-1.25714, TILT=0
MBC3R08H: GKICK, L=1E-08, DXP=0, DYP=0
390 MBC3R09V: GKICK, L=1E-08, DXP=0, DYP=0
MBC3R09H: GKICK, L=1E-08, DXP=0, DYP=0
MQA3R09: QUADRUPOLE, L=0.3, K1=0.994775, TILT=0
IPM3R09: MONITOR, L=0
D448: DRIFT, L=3.58611
395 MBC3R10V: GKICK, L=1E-08, DXP=0, DYP=0
MBC3R10H: GKICK, L=1E-08, DXP=0, DYP=0
MQA3R10: QUADRUPOLE, L=0.3, K1=-0.696439, TILT=0
IPM3R10: MONITOR, L=0
D449A: DRIFT, L=0.32546
400 MAV3R04: SBEND, L=2.00407, ANGLE=-12.6532, K1=-0, &
E1=-6.32662, E2=-6.32662, HGAP=0.012954, &
HGAPX=0.012954, &
FINT=0.5, TILT=90
D450A: DRIFT, L=1.92778
405 MAS3R05: SBEND, L=1.01467, ANGLE=6.11302, K1=-0, &
E1=-6.54021, E2=12.6529, HGAP=0.023749, &
HGAPX=0.0237492, &
FINT=0.5, TILT=90
D451: DRIFT, L=1.00655
410 MAQ3R06: SBEND, L=1.00217, ANGLE=6.5402, K1=-0, &
E1=0, E2=6.54021, HGAP=0.01905, &
HGAPX=0.01905, &
FINT=0.5, TILT=90
415 ARC3: LINE=(MAQ3S01, &
D400, MAS3S02, D401A, MAV3S03, D402A, &
IPM3S01, D403, MQA3S01, D404, MBC3S01H, &
D405, MBC3S01V, D406, ITV3S01, D407, &
IPM3S02, D403, MQA3S02, D404, MBC3S02H, &
420 D405, MBC3S02V, D408, MBC3S03H, D409, &
MQA3S03, D403, IPM3S03, D410, MAA3S04, &
D411, MAA3S06, D412A, MQA3S04, D413, &
ITV3S04, D414, IPM3S05, D403, MQA3S05, &
D404, MBC3S05H, D405, MBC3S05V, D415, &
425 MQA3S06, D404, D405, D417, IPM3S07, &
D403, MQA3S07, D404, MBC3S07H, D405, &
MBC3S07V, D417, IPM3S08, D403, MQA3S08, &
D404, MBC3S08H, D405, MBC3S08V, D417, &
IPM3S09, D403, MQA3S09, D404, MBC3S09H, &
430 D405, MBC3S09V, D417, IPM3S10, D403, &
MQA3S10, D404, MBC3S10H, D405, MBC3S10V, &
D418, IPM3E01, D419, MQB3E01, D420, &
MBM3E01H, D405, MBM3E01V, D421, IHA3E01, &
D422, MBW3E01, D423, MBX3E02, D423, &
435 MBW3E03, D424, IPM3E02, D419, MQB3E02, &
D420, MBM3E02H, D405, MBM3E02V, D418, &
IPM3E03, D419, MQB3E03, D420, MBM3E03H, &
D405, MBM3E03V, D418, IPM3A01, D403, &
MQA3A01, D404, MBC3A01H, D405, MBC3A01V, &

440 D421, ITV3A01, D425B, D425, MBE3A01, &
D426, MBE3A02, D427, IPM3A02, D403, &
MQA3A02, D428, MBC3A02V, D429, IPM3A03, &
D403, MQA3A03, D404, MBC3A03H, D430, &
IHA3A03, D431, IPM3A04, D403, MQA3A04, &
445 D428, MBC3A04V, D432, MBE3A03, D426, &
MBE3A04, D427, IPM3A05, D403, MQA3A05, &
D404, MBC3A05H, D433, MBE3A05, D426, &
MBE3A06, D427, IPM3A06, D403, MQA3A06, &
D428, MBC3A06V, D434, IPM3A07, D403, &
450 MQA3A07, D404, MBC3A07H, D435, IPM3A08, &
D403, MQA3A08, D428, MBC3A08V, D436, &
MBE3A07, D426, MBE3A08, D427, IPM3A09, &
D403, MQA3A09, D404, MBC3A09H, D437, &
ITV3A09, D425, MBE3A09, D426, MBE3A10, &
455 D427, IPM3A10, D403, MQA3A10, D428, &
MBC3A10V, D429, D403, MQA3A11, D404, &
MBC3A11H, D438, IPM3A12, MQA3A12, D428, &
MBC3A12V, D432, MBE3A11, D426, MBE3A12, &
D427, IPM3A13, D403, MQA3A13, D428, &
460 MBC3A13H, D436, MBE3A13, D426, MBE3A14, &
D439, IPM3A14, MQA3A14, D428, MBC3A14V, &
D434, D403, MQA3A15, D404, MBC3A15H, &
D435, IPM3A16, D403, MQA3A16, D428, &
MBC3A16V, D436, MBE3A15, D426, MBE3A16, &
465 D427, IPM3A17, D403, MQA3A17, D404, &
MBC3A17H, D437, ITV3A17, D425, MBE3A17, &
D426, MBE3A18, D427, IPM3A18, D403, &
MQA3A18, D428, MBC3A18V, D429, D403, &
MQA3A19, D404, MBC3A19H, D438, IPM3A20, &
470 MQA3A20, D428, MBC3A20V, D432, MBE3A19, &
D426, MBE3A20, D427, IPM3A21, D403, &
MQA3A21, D428, MBC3A21H, D436, MBE3A21, &
D426, MBE3A22, D439, IPM3A22, MQA3A22, &
D428, MBC3A22V, D434, D403, MQA3A23, &
475 D404, MBC3A23H, D435, IPM3A24, D403, &
MQA3A24, D428, MBC3A24V, D436, MBE3A23, &
D426, MBE3A24, D427, IPM3A25, D403, &
MQA3A25, D404, MBC3A25H, D437, ITV3A25, &
D425, MBE3A25, D426, MBE3A26, D427, &
480 IPM3A26, D403, MQA3A26, D428, MBC3A26V, &
D429, D403, MQA3A27, D404, MBC3A27H, &
D438, IPM3A28, MQA3A28, D428, MBC3A28V, &
D432, MBE3A27, D426, MBE3A28, D427, &
IPM3A29, D403, MQA3A29, D404, MBC3A29H, &
485 D433, MBE3A29, D426, MBE3A30, D439, &
IPM3A30, MQA3A30, D428, MBC3A30V, D434, &
D403, MQA3A31, D404, MBC3A31H, D435, &
IPM3A32, D403, MQA3A32, D440, MBE3A31, &
D426, MBE3A32, D427A, IPM3R01, D403, &
490 MQA3R01, D404, MBC3R01H, D437, ITV3R01, &
D441, IPM3R02, D403, MQA3R02, D404, &
MBC3R02H, D405, MBC3R02V, D417, IPM3R03, &
D403, MQA3R03, D404, MBC3R03H, D442, &
IPM3R04, D403, MQA3R04, D404, MBC3R04H, &
495 D405, MBC3R04V, D443, MQA3R05, D444, &
IPM3R06, D403, MQA3R06, D404, MBC3R06H, &
D445, MQA3R07, D428, MBC3R07V, D446A, &
MAA3R01, D411, MAA3R03, D447, IPM3R08, &
D403, MQA3R08, D409, MBC3R08H, D408, &
500 MBC3R09V, D405, MBC3R09H, D404, MQA3R09, &
D403, IPM3R09, D448, MBC3R10V, D405, &
MBC3R10H, D404, MQA3R10, D403, IPM3R10, &
D449A, MAV3R04, D450A, MAS3R05, D451, &
MAQ3R06)
505 USE, ARC3
DIMAT

1

* DIMAD PROGRAM : LAST MODIFIED ON May 27, 2005 *

1 CONVERTED FROM ../.././OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//ARC3.OPT

TOTAL LENGTH OF MACHINE IS: 408.524 METERS

IN THIS RUN THERE ARE :
273 DISTINCT ELEMENTS. ALLOCATED MXELMD : 274
442 ELEMENTS IN MACHINE. ALLOCATED MXPOS_D : 444
100 MATRICES DEFINED. ALLOCATED MAXMAT : 101
1909 VALUES IN ELDAT. ALLOCATED MAXDAT : 1909
0 LCAVs. ALLOCATED MX_LCAV : 1

1

OPERATION LIST ,

MACHINE

1 2 1 0 1 1 1
85.4503 2.13782 0 0
38.2315 -1.36223 0 0
0,

ELEMENT	#	BETAX	ALPHAX	BETAY	ALPHAY	ETAX	ETAPX	ETAY	ETAPY	NUX	NUY	ACC.LEN
\$\$INITIAL\$\$	0	85.4503	2.1378	38.2315	-1.3622	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.000
MAQ3S01	1	81.2721	3.0930	40.5169	-1.4374	0.0000	0.0000	0.0571	0.1146	0.00191	0.00404	1.002
D400	2	75.1774	2.9621	43.4873	-1.5136	0.0000	0.0000	0.1725	0.1146	0.00396	0.00786	2.009
MA3S02	3	71.1173	3.6237	45.0333	-1.5916	0.0000	0.0000	0.3396	0.2245	0.00617	0.01150	3.023
D401A	4	57.8842	3.2407	51.4613	-1.7428	0.0000	0.0000	0.7724	0.2245	0.01095	0.01788	4.951
MAV3S03	5	43.2438	3.8881	58.7003	-1.8988	0.0000	0.0000	0.9983	0.0028	0.01733	0.02364	6.955
D402A	6	40.7524	3.7668	59.9446	-1.9243	0.0000	0.0000	0.9992	0.0028	0.01857	0.02451	7.281
IPM3S01	7	40.7524	3.7668	59.9446	-1.9243	0.0000	0.0000	0.9992	0.0028	0.01857	0.02451	7.281
D403	8	39.0788	3.6831	60.8131	-1.9420	0.0000	0.0000	0.9998	0.0028	0.01946	0.02510	7.505
MQA3S01	9	39.3758	-4.6942	58.1065	10.7696	0.0000	0.0000	0.9686	-0.2095	0.02069	0.02590	7.805
D404	10	41.2110	-4.8072	54.0213	10.3808	0.0000	0.0000	0.9282	-0.2095	0.02146	0.02644	7.998
MBC3S01H	11	41.2110	-4.8072	54.0213	10.3808	0.0000	0.0000	0.9282	-0.2095	0.02146	0.02644	7.999
D405	12	43.1188	-4.9219	50.0276	9.9860	0.0000	0.0000	0.8871	-0.2095	0.02220	0.02705	8.195
MBC3S01V	13	43.1188	-4.9219	50.0276	9.9860	0.0000	0.0000	0.8871	-0.2095	0.02220	0.02705	8.195
D406	14	53.6961	-5.5148	31.8547	7.9456	0.0000	0.0000	0.6748	-0.2095	0.02555	0.03109	9.208
ITV3S01	15	53.6961	-5.5148	31.8547	7.9456	0.0000	0.0000	0.6748	-0.2095	0.02555	0.03109	9.208
D407	16	85.9436	-7.0199	4.2972	2.7661	0.0000	0.0000	0.1360	-0.2095	0.03158	0.06637	11.781
IPM3S02	17	85.9436	-7.0199	4.2972	2.7661	0.0000	0.0000	0.1360	-0.2095	0.03158	0.06637	11.781
D403	18	89.1272	-7.1513	3.1559	2.3138	0.0000	0.0000	0.0889	-0.2095	0.03199	0.07609	12.005
MQA3S02	19	85.3601	19.3257	2.1642	1.0913	0.0000	0.0000	0.0292	-0.1917	0.03252	0.09468	12.305
D404	20	78.0583	18.4783	1.7804	0.8958	0.0000	0.0000	-0.0078	-0.1917	0.03290	0.11036	12.499
MBC3S02H	21	78.0583	18.4783	1.7804	0.8958	0.0000	0.0000	-0.0078	-0.1917	0.03290	0.11036	12.499
D405	22	70.9802	17.6181	1.4680	0.6973	0.0000	0.0000	-0.0454	-0.1917	0.03332	0.12971	12.695
MBC3S02V	23	70.9802	17.6181	1.4680	0.6973	0.0000	0.0000	-0.0454	-0.1917	0.03332	0.12971	12.695
D408	24	22.6351	9.9147	2.1407	-1.0804	0.0000	0.0000	-0.3820	-0.1917	0.04029	0.35777	14.451
MBC3S03H	25	22.6351	9.9147	2.1407	-1.0804	0.0000	0.0000	-0.3820	-0.1917	0.04029	0.35777	14.451
D409	26	12.9833	7.4806	3.6512	-1.6421	0.0000	0.0000	-0.4884	-0.1917	0.04545	0.38956	15.005
MQA3S03	27	10.0853	2.5415	4.2532	-0.2883	0.0000	0.0000	-0.5174	0.0000	0.04970	0.40146	15.305
D403	28	8.9807	2.3753	4.3956	-0.3455	0.0000	0.0000	-0.5174	0.0000	0.05346	0.40974	15.530
IPM3S03	29	8.9807	2.3753	4.3956	-0.3455	0.0000	0.0000	-0.5174	0.0000	0.05346	0.40974	15.530
D410	30	7.1974	2.0792	4.7131	-0.4475	0.0000	0.0000	-0.5174	0.0000	0.06138	0.42375	15.930
MAA3S04	31	3.7339	1.3682	5.8612	-0.7019	0.0000	0.0000	-0.4706	0.0938	0.09229	0.45419	16.931
D411	32	7.0789	-2.1083	17.4080	-1.8529	0.0000	0.0000	-0.0468	0.0938	0.42135	0.52802	21.451
MAA3S06	33	11.9882	-2.7782	21.3638	-2.1072	0.0000	0.0000	0.0000	0.0000	0.43867	0.53627	22.451
D412A	34	25.7428	-4.2097	30.6460	-2.6085	0.0000	0.0000	0.0000	0.0000	0.45654	0.54853	24.419
MQA3S04	35	32.3789	-18.9390	27.9741	11.0930	0.0000	0.0000	0.0000	0.0000	0.45823	0.55012	24.719
D413	36	75.1607	-28.8779	11.6742	7.1253	0.0000	0.0000	0.0000	0.0000	0.46112	0.55800	25.614
ITV3S04	37	75.1607	-28.8779	11.6742	7.1253	0.0000	0.0000	0.0000	0.0000	0.46112	0.55800	25.614
D414	38	112.4419	-35.3282	4.8947	4.5504	0.0000	0.0000	0.0000	0.0000	0.46212	0.57024	26.195
IPM3S05	39	112.4419	-35.3282	4.8947	4.5504	0.0000	0.0000	0.0000	0.0000	0.46212	0.57024	26.195
D403	40	128.8755	-37.8237	3.0740	3.5541	0.0000	0.0000	0.0000	0.0000	0.46242	0.57946	26.419
MQA3S05	41	137.2144	11.0562	1.5467	1.7224	0.0000	0.0000	0.0000	0.0000	0.46277	0.60184	26.719
D404	42	132.9769	10.8827	0.9770	1.2271	0.0000	0.0000	0.0000	0.0000	0.46300	0.62695	26.912
MBC3S05H	43	132.9769	10.8827	0.9770	1.2271	0.0000	0.0000	0.0000	0.0000	0.46300	0.62695	26.912
D405	44	128.7434	10.7066	0.5944	0.7242	0.0000	0.0000	0.0000	0.0000	0.46324	0.66836	27.108
MBC3S05V	45	128.7434	10.7066	0.5944	0.7242	0.0000	0.0000	0.0000	0.0000	0.46324	0.66836	27.108
D415	46	102.2190	9.5293	3.1021	-2.6373	0.0000	0.0000	0.0000	0.0000	0.46506	0.96043	28.419
MQA3S06	47	91.8496	24.4703	5.1253	-4.2162	0.0000	0.0000	0.0000	0.0000	0.46554	0.97252	28.719
D404	48	82.6403	23.2090	6.8907	-4.9238	0.0000	0.0000	0.0000	0.0000	0.46590	0.97769	28.912
D405	49	73.7893	21.9285	8.9625	-5.6421	0.0000	0.0000	0.0000	0.0000	0.46630	0.98166	29.108
D417	50	0.6359	1.7756	78.6774	-16.9478	0.0000	0.0000	0.0000	0.0000	0.54068	1.00020	32.195
IPM3S07	51	0.6359	1.7756	78.6774	-16.9478	0.0000	0.0000	0.0000	0.0000	0.54068	1.00020	32.195
D403	52	0.1677	0.3086	86.4770	-17.7708	0.0000	0.0000	0.0000	0.0000	0.66140	1.00064	32.419
MQA3S07	53	0.6030	-1.8229	85.6115	20.5274	0.0000	0.0000	0.0000	0.0000	0.86871	1.00118	32.719
D404	54	1.5746	-3.2076	77.8658	19.5745	0.0000	0.0000	0.0000	0.0000	0.90047	1.00156	32.912
MBC3S07H	55	1.5746	-3.2076	77.8658	19.5745	0.0000	0.0000	0.0000	0.0000	0.90047	1.00156	32.912
D405	56	3.1083	-4.6134	70.3788	18.6071	0.0000	0.0000	0.0000	0.0000	0.91459	1.00198	33.108
MBC3S07V	57	3.1083	-4.6134	70.3788	18.6071	0.0000	0.0000	0.0000	0.0000	0.91459	1.00198	33.108
D417	58	99.8616	-26.7378	2.5202	3.3814	0.0000	0.0000	0.0000	0.0000	0.94262	1.03920	36.195
IPM3S08	59	99.8616	-26.7378	2.5202	3.3814	0.0000	0.0000	0.0000	0.0000	0.94262	1.03920	36.195
D403	60	112.2367	-28.3484	1.2499	2.2730	0.0000	0.0000	0.0000	0.0000	0.94295	1.05940	36.419
MQA3S08	61	112.3534	27.9788	0.4085	0.6692	0.0000	0.0000	0.0000	0.0000	0.94337	1.13019	36.719
D404	62	101.8055	26.6313	0.2822	-0.0153	0.0000	0.0000	0.0000	0.0000	0.94366	1.22650	36.912
MBC3S08H	63	101.8055	26.6313	0.2822	-0.0153	0.0000	0.0000	0.0000	0.0000	0.94366	1.22650	36.912
D405	64	91.6294	25.2634	0.4245	-0.7103	0.0000	0.0000	0.0000	0.0000	0.94398	1.32236	37.108
MBC3S08V	65	91.6294	25.2634	0.4245	-0.7103	0.0000	0.0000	0.0000	0.0000	0.94398	1.32236	37.108
D417	66	2.1415	3.7336	38.5642	-11.6482	0.0000	0.0000	0.0000	0.0000	0.97933	1.46043	40.195
IPM3S09	67	2.1415	3.7336	38.5642	-11.6482	0.0000	0.0000	0.0000	0.0000	0.97933	1.46043	40.195
D403	68	0.8161	2.1664	43.9766	-12.4444	0.0000	0.0000	0.0000	0.0000	1.00651	1.46130	40.419
MQA3S09	69	0.1671	0.0904	45.6110	7.2356	0.0000	0.0000	0.0000	0.0000	1.16240	1.46234	40.719
D404	70	0.3573	-1.0750	42.8595	7.0097	0.0000	0.0000	0.0000	0.0000	1.30750	1.46303	40.912
MBC3S09H	71	0.3573	-1.0750	42.8595	7.0097	0.0000	0.0000	0.0000	0.0000	1.30750	1.46303	40.912
D405	72	1.0109	-2.2581	40.1555	6.7803	0.0000	0.0000	0.0000	0.0000	1.36040	1.46379	41.108
MBC3S09V	73	1.0109	-2.2581	40.1555	6.7803	0.0000	0.0000	0.0000	0.0000	1.36040	1.46379	41.108
D417	74	72.4122	-20.8782	9.4468	3.1703	0.0000	0.0000	0.0000	0.0000	1.41913	1.48911	44.195
IPM3S10	75	72.4122	-20.8782	9.4468	3.1703	0.0000	0.0000	0.0000	0.0000	1.41913	1.48911	44.195
D403	76	82.0972	-22.2337	8.0815	2.9075	0.0000	0.0000	0.0000	0.0000	1.41960	1.49320	44.419
MQA3S10	77	87.3019	5.4568	7.1495	0.3002	0.0000	0.0000	0.0000	0.0000	1.42015	1.49959	44.719
D404	78	85.2070	5.3887	7.0392	0.2708	0.0000	0.0000	0.0000	0.0000	1.42051	1.50392	44.912
MBC3S10H	79	85.2070	5.3887	7.0392	0.2708	0.0000	0.0000	0.0000	0.0000	1.42051	1.50392	44.912
D405	80	83.1073	5.3196	6.9389	0.2409	0.0000	0.0000	0.0000	0.0000	1.42088	1.50839	45.108
MBC3S10V	81	83.1073	5.3196	6.9389	0.2409	0.0000	0.0000	0.0000	0.0000	1.42088	1.50839	45.108
D418												

D422	92	6.1661	-1.3390	33.2693	1.5739	0.0000	0.0000	0.0000	0.0000	1.74764	1.73492	62.644
MBW3E01	93	7.6071	-1.5656	31.7212	1.6258	-0.0101	-0.0406	0.0000	0.0000	1.75927	1.73737	63.144
D423	94	40.6516	-4.1765	16.8123	0.9649	-0.2435	-0.0406	0.0000	0.0000	1.81233	1.77745	68.899
MBX3E02	95	49.4507	-4.6298	14.8930	0.9477	-0.2435	0.0406	0.0000	0.0000	1.81587	1.78752	69.899
D423	96	117.7623	-7.2407	8.2066	0.2142	-0.0101	0.0406	0.0000	0.0000	1.82789	1.87466	75.654
MBW3E03	97	125.3161	-7.4673	7.9976	0.1767	0.0000	0.0000	0.0000	0.0000	1.82854	1.88449	76.154
D424	98	143.0954	-7.9884	7.7616	0.0284	0.0000	0.0000	0.0000	0.0000	1.82991	1.90781	77.305
IPM3E02	99	143.0954	-7.9884	7.7616	0.0284	0.0000	0.0000	0.0000	0.0000	1.82991	1.90781	77.305
D419	100	147.9235	-8.1241	7.7562	-0.0102	0.0000	0.0000	0.0000	0.0000	1.83024	1.91396	77.604
MQB3E02	101	148.0883	7.0311	7.8818	-0.8315	0.0000	0.0000	0.0000	0.0000	1.83040	1.91702	77.754
D420	102	144.3420	6.9398	8.3431	-0.8890	0.0000	0.0000	0.0000	0.0000	1.83069	1.92228	78.022
MBM3E02H	103	144.3420	6.9398	8.3431	-0.8890	0.0000	0.0000	0.0000	0.0000	1.83069	1.92228	78.022
D405	104	141.6335	6.8730	8.7001	-0.9311	0.0000	0.0000	0.0000	0.0000	1.83091	1.92595	78.218
MBM3E02V	105	141.6335	6.8730	8.7001	-0.9311	0.0000	0.0000	0.0000	0.0000	1.83091	1.92595	78.218
D418	106	9.9684	1.5476	90.2836	-4.2865	0.0000	0.0000	0.0000	0.0000	1.89922	2.02014	93.855
IPM3E03	107	9.9684	1.5476	90.2836	-4.2865	0.0000	0.0000	0.0000	0.0000	1.89922	2.02014	93.855
D419	108	9.0715	1.4455	92.8718	-4.3508	0.0000	0.0000	0.0000	0.0000	1.90423	2.02067	94.154
MQB3E03	109	8.7819	0.4954	92.7418	5.2128	0.0000	0.0000	0.0000	0.0000	1.90691	2.02092	94.304
D420	110	8.5264	0.4573	89.9680	5.1313	0.0000	0.0000	0.0000	0.0000	1.91185	2.02139	94.572
MBM3E03H	111	8.5264	0.4573	89.9680	5.1313	0.0000	0.0000	0.0000	0.0000	1.91185	2.02139	94.572
D405	112	8.3525	0.4295	87.9673	5.0718	0.0000	0.0000	0.0000	0.0000	1.91554	2.02174	94.768
MBM3E03V	113	8.3525	0.4295	87.9673	5.0718	0.0000	0.0000	0.0000	0.0000	1.91554	2.02174	94.768
D418	114	29.5917	-1.7879	3.6328	0.3218	0.0000	0.0000	0.0000	0.0000	2.14895	2.19120	110.405
IPM3A01	115	29.5917	-1.7879	3.6328	0.3218	0.0000	0.0000	0.0000	0.0000	2.14895	2.19120	110.405
D403	116	30.4022	-1.8197	3.5035	0.2536	0.0000	0.0000	0.0000	0.0000	2.15014	2.20123	110.629
MQA3A01	117	30.2022	2.4768	3.5258	-0.3287	0.0000	0.0000	0.0000	0.0000	2.15171	2.21493	110.929
D404	118	29.2542	2.4312	3.6645	-0.3895	0.0000	0.0000	0.0000	0.0000	2.15274	2.22349	111.122
MBC3A01H	119	29.2542	2.4312	3.6645	-0.3895	0.0000	0.0000	0.0000	0.0000	2.15274	2.22349	111.122
D405	120	28.3098	2.3849	3.8293	-0.4511	0.0000	0.0000	0.0000	0.0000	2.15382	2.23182	111.318
MBC3A01V	121	28.3098	2.3849	3.8293	-0.4511	0.0000	0.0000	0.0000	0.0000	2.15382	2.23182	111.318
D421	122	25.9592	2.2655	4.3656	-0.6099	0.0000	0.0000	0.0000	0.0000	2.15679	2.25155	111.824
ITV3A01	123	25.9592	2.2655	4.3656	-0.6099	0.0000	0.0000	0.0000	0.0000	2.15679	2.25155	111.824
D425B	124	25.9467	2.2648	4.3690	-0.6108	0.0000	0.0000	0.0000	0.0000	2.15681	2.25165	111.827
D425	125	15.0524	1.5987	10.3126	-1.4970	0.0000	0.0000	0.0000	0.0000	2.17960	2.32065	114.646
MBE3A01	126	12.0646	1.3904	13.5399	-1.7164	0.0491	0.0982	0.0000	0.0000	2.19140	2.33414	115.647
D426	127	6.7325	0.7980	23.6340	-2.4265	0.2884	0.0982	0.0000	0.0000	2.23497	2.35589	118.083
MBE3A02	128	5.3678	0.5674	28.5978	-2.5158	0.4351	0.1957	0.0000	0.0000	2.26152	2.36202	119.084
D427	129	4.4070	-0.2921	49.2786	-3.4102	1.1180	0.1957	0.0000	0.0000	2.38889	2.37683	122.574
IPM3A02	130	4.4070	-0.2921	49.2786	-3.4102	1.1180	0.1957	0.0000	0.0000	2.38889	2.37683	122.574
D403	131	4.5507	-0.3474	50.8237	-3.4678	1.1619	0.1957	0.0000	0.0000	2.39687	2.37755	122.798
MQA3A02	132	5.0260	-1.2642	50.2963	5.1958	1.2510	0.4009	0.0000	0.0000	2.40695	2.37849	123.098
D428	133	6.0886	-1.4655	46.3358	4.9791	1.4070	0.4009	0.0000	0.0000	2.41816	2.37977	123.488
MBC3A02V	134	6.0886	-1.4655	46.3358	4.9791	1.4070	0.4009	0.0000	0.0000	2.41816	2.37977	123.488
D429	135	18.0174	-2.8835	23.2090	3.4523	2.5066	0.4009	0.0000	0.0000	2.46033	2.39310	126.230
IPM3A03	136	18.0174	-2.8835	23.2090	3.4523	2.5066	0.4009	0.0000	0.0000	2.46033	2.39310	126.230
D403	137	19.3390	-2.9996	21.6859	3.3273	2.5967	0.4009	0.0000	0.0000	2.46224	2.39469	126.455
MQA3A03	138	19.3391	2.9994	21.6860	-3.3276	2.5958	-0.4065	0.0000	0.0000	2.46468	2.39693	126.755
D404	139	18.1997	2.8996	22.9923	-3.4352	2.5173	-0.4065	0.0000	0.0000	2.46631	2.39830	126.948
MBC3A03H	140	18.1997	2.8996	22.9923	-3.4352	2.5173	-0.4065	0.0000	0.0000	2.46631	2.39830	126.948
D430	141	15.8655	2.6834	25.9620	-3.6679	2.3473	-0.4065	0.0000	0.0000	2.47023	2.40103	127.366
IHA3A03	142	15.8655	2.6834	25.9620	-3.6679	2.3473	-0.4065	0.0000	0.0000	2.47023	2.40103	127.366
D431	143	5.6209	1.3804	47.9933	-5.0714	1.3225	-0.4065	0.0000	0.0000	2.51324	2.41240	129.887
IPM3A04	144	5.6209	1.3804	47.9933	-5.0714	1.3225	-0.4065	0.0000	0.0000	2.51324	2.41240	129.887
D403	145	5.0268	1.2643	50.3000	-5.1965	1.2311	-0.4065	0.0000	0.0000	2.51997	2.41313	130.112
MQA3A04	146	4.5514	0.3473	50.8277	3.4677	1.1398	-0.2049	0.0000	0.0000	2.53004	2.41407	130.412
D428	147	4.3183	0.2515	48.1669	3.3680	1.0601	-0.2049	0.0000	0.0000	2.54403	2.41532	130.801
MBC3A04V	148	4.3183	0.2515	48.1669	3.3680	1.0601	-0.2049	0.0000	0.0000	2.54403	2.41532	130.801
D432	149	5.3684	-0.5673	28.6018	2.5159	0.3788	-0.2049	0.0000	0.0000	2.66536	2.42960	134.126
MBE3A03	150	6.7329	-0.7978	23.6379	2.4266	0.2229	-0.1073	0.0000	0.0000	2.69192	2.43572	135.127
D426	151	12.0639	-1.3901	13.5431	1.7165	-0.0386	-0.1073	0.0000	0.0000	2.73549	2.45746	137.563
MBE3A04	152	15.0510	-1.5984	10.3154	1.4972	-0.0966	-0.0089	0.0000	0.0000	2.74729	2.47096	138.564
D427	153	29.0835	-2.4226	3.6926	0.4005	-0.1276	-0.0089	0.0000	0.0000	2.77396	2.56661	142.054
IPM3A05	154	29.0835	-2.4226	3.6926	0.4005	-0.1276	-0.0089	0.0000	0.0000	2.77396	2.56661	142.054
D403	155	30.1838	-2.4756	3.5285	0.3299	-0.1296	-0.0089	0.0000	0.0000	2.77517	2.57652	142.278
MQA3A05	156	30.1839	2.4755	3.5289	-0.3312	-0.1291	0.0124	0.0000	0.0000	2.77674	2.59018	142.578
D404	157	29.2364	2.4299	3.6685	-0.3919	-0.1267	0.0124	0.0000	0.0000	2.77777	2.59872	142.771
MBC3A05H	158	29.2364	2.4299	3.6685	-0.3919	-0.1267	0.0124	0.0000	0.0000	2.77777	2.59872	142.771
D433	159	15.0516	1.5983	10.3281	-1.4993	-0.0831	0.0124	0.0000	0.0000	2.80462	2.69566	146.293
MBE3A05	160	12.0646	1.3901	13.5600	-1.7187	-0.0216	0.1108	0.0000	0.0000	2.81642	2.70913	147.293
D426	161	6.7336	0.7979	23.6662	-2.4291	0.2483	0.1108	0.0000	0.0000	2.85998	2.73084	149.730
MBC3A06	162	5.3690	0.5673	28.6352	-2.5184	0.4077	0.2083	0.0000	0.0000	2.88654	2.73696	150.730
D427	163	4.4079	-0.2919	49.3352	-3.4132	1.1346	0.2083	0.0000	0.0000	3.01386	2.75176	154.220
IPM3A06	164	4.4079	-0.2919	49.3352	-3.4132	1.1346	0.2083	0.0000	0.0000	3.01386	2.75176	154.220
D403	165	4.5514	-0.3472	50.8817	-3.4708	1.1814	0.2083	0.0000	0.0000	3.02185	2.75248	154.444
MQA3A06	166	5.0267	-1.2641	50.3530	5.2026	1.2748	0.4172	0.0000	0.0000	3.03192	2.75341	154.744
D428	167	6.0891	-1.4653	46.3873	4.9857	1.4372	0.4172	0.0000	0.0000	3.04313	2.75469	155.134
MBC3A06V	168	6.0891	-1.4653	46.3873	4.9857	1.4372	0.4172	0.0000	0.0000	3.04313	2.75469	155.134
D434	169	18.0162	-2.8830	23.2304	3.4567	2.5815	0.4172	0.0000	0.0000	3.08530	2.76801	157.877
IPM3A07	170	18.0162	-2.8830	23.2304	3.4567	2.5815	0.4172	0.0000	0.0000	3.08530	2.76801	157.877
D403	171	19.3376	-2.9991	21.7055	3.3315	2.6753	0.4172	0.0000	0.0000	3.08722	2.76960	158.101
MQA3A07	172	19.3375	2.9995	21.7048	-3.3293	2.6756	-0.4148	0.0000	0.0000	3.08965	2.77183	158.401
D404	173	18.1981	2.8996	23.0117	-3.4368	2.5955	-0.4148	0.0000	0.0000	3.09129	2.77321	158.594
MBC3A07H	174	18.1981	2.8996	23.0117	-3.4368	2.5955	-0.4148	0.0000	0.0000	3.09129	2.77321	158.594
D435	175	5.6195	1.3802	48.0								

MBE3A10	196	5.3701	0.5677	28.6567	-2.5216	0.3902	0.1997	0.0000	0.0000	3.51151	3.11207	182.376
D427	197	4.4068	-0.2916	49.3835	-3.4176	1.0869	0.1997	0.0000	0.0000	3.63884	3.12686	185.866
IPM3A10	198	4.4068	-0.2916	49.3835	-3.4176	1.0869	0.1997	0.0000	0.0000	3.63884	3.12686	185.866
D403	199	4.5502	-0.3469	50.9320	-3.4753	1.1318	0.1997	0.0000	0.0000	3.64683	3.12757	186.091
MQA3A10	200	5.0253	-1.2636	50.4035	5.2067	1.2213	0.3998	0.0000	0.0000	3.65691	3.12851	186.391
D428	201	6.0873	-1.4648	46.4347	4.9897	1.3769	0.3998	0.0000	0.0000	3.66812	3.12979	186.780
MBC3A10V	202	6.0873	-1.4648	46.4347	4.9897	1.3769	0.3998	0.0000	0.0000	3.66812	3.12979	186.780
D429	203	18.0106	-2.8822	23.2582	3.4599	2.4735	0.3998	0.0000	0.0000	3.71030	3.14309	189.523
D403	204	19.3317	-2.9982	21.7318	3.3346	2.5633	0.3998	0.0000	0.0000	3.71222	3.14468	189.748
MQA3A11	205	19.3316	2.9985	21.7317	-3.3343	2.5636	-0.3974	0.0000	0.0000	3.71465	3.14691	190.048
D404	206	18.1926	2.8986	23.0405	-3.4420	2.4869	-0.3974	0.0000	0.0000	3.71629	3.14828	190.241
MBC3A11H	207	18.1926	2.8986	23.0405	-3.4420	2.4869	-0.3974	0.0000	0.0000	3.71629	3.14828	190.241
D438	208	5.0246	1.2636	50.4000	-5.2060	1.2295	-0.3974	0.0000	0.0000	3.76997	3.16308	193.404
IPM3A12	209	5.0246	1.2636	50.4000	-5.2060	1.2295	-0.3974	0.0000	0.0000	3.76997	3.16308	193.404
MQA3A12	210	4.5495	0.3470	50.9283	3.4754	1.1409	-0.1958	0.0000	0.0000	3.78005	3.16401	193.704
D428	211	4.3166	0.2512	48.2617	3.3754	1.0647	-0.1958	0.0000	0.0000	3.79404	3.16526	194.094
MBC3A12V	212	4.3166	0.2512	48.2617	3.3754	1.0647	-0.1958	0.0000	0.0000	3.79404	3.16526	194.094
D432	213	5.3695	-0.5678	28.6529	2.5215	0.4135	-0.1958	0.0000	0.0000	3.91539	3.17952	197.419
MBE3A11	214	6.7350	-0.7984	23.6779	2.4320	0.2666	-0.0983	0.0000	0.0000	3.94194	3.18563	198.419
D426	215	12.0691	-1.3908	13.5604	1.7204	0.0270	-0.0983	0.0000	0.0000	3.98549	3.20734	200.856
MBE3A12	216	15.0576	-1.5991	10.3253	1.5006	-0.0222	-0.0001	0.0000	0.0000	3.99729	3.22082	201.856
D427	217	29.0959	-2.4235	3.6873	0.4015	-0.0224	-0.0001	0.0000	0.0000	4.02395	3.31649	205.346
IPM3A13	218	29.0959	-2.4235	3.6873	0.4015	-0.0224	-0.0001	0.0000	0.0000	4.02395	3.31649	205.346
D403	219	30.1967	-2.4766	3.5228	0.3308	-0.0225	-0.0001	0.0000	0.0000	4.02515	3.32642	205.571
MQA3A13	220	30.1967	-2.4766	3.5228	-0.3295	-0.0219	0.0036	0.0000	0.0000	4.02672	3.34010	205.871
D428	221	28.3044	2.3847	3.8266	-0.4520	-0.0205	0.0036	0.0000	0.0000	4.02884	3.35701	206.260
MBC3A13H	222	28.3044	2.3847	3.8266	-0.4520	-0.0205	0.0036	0.0000	0.0000	4.02884	3.35701	206.260
D436	223	15.0570	1.5991	10.3125	-1.4985	-0.0086	0.0036	0.0000	0.0000	4.05459	3.44579	209.585
MBE3A13	224	12.0684	1.3908	13.5433	-1.7183	0.0440	0.1018	0.0000	0.0000	4.06639	3.45928	210.585
D426	225	6.7343	0.7984	23.6492	-2.4294	0.2921	0.1018	0.0000	0.0000	4.10994	3.48102	213.022
MBE3A14	226	5.3688	0.5677	28.6191	-2.5100	0.4424	0.1992	0.0000	0.0000	4.13649	3.48714	214.022
D439	227	4.5495	-0.3471	50.8738	-3.4723	1.1825	0.1992	0.0000	0.0000	4.27185	3.50266	217.737
IPM3A14	228	4.5495	-0.3471	50.8738	-3.4723	1.1825	0.1992	0.0000	0.0000	4.27185	3.50266	217.737
MQA3A14	229	5.0246	-1.2638	50.3465	5.1998	1.2732	0.4081	0.0000	0.0000	4.28193	3.50359	218.037
D428	230	6.0868	-1.4649	46.3829	4.9831	1.4320	0.4081	0.0000	0.0000	4.29314	3.50488	218.426
MBC3A14V	231	6.0868	-1.4649	46.3829	4.9831	1.4320	0.4081	0.0000	0.0000	4.29314	3.50488	218.426
D434	232	18.0120	-2.8827	23.2365	3.4555	2.5514	0.4081	0.0000	0.0000	4.33532	3.51819	221.169
D403	233	19.3332	-2.9988	21.7120	3.3304	2.6431	0.4081	0.0000	0.0000	4.33724	3.51978	221.394
MQA3A15	234	19.3334	2.9984	21.7127	-3.3326	2.6422	-0.4137	0.0000	0.0000	4.33967	3.52201	221.694
D404	235	18.1943	2.8986	23.0209	-3.4403	2.5623	-0.4137	0.0000	0.0000	4.34131	3.52339	221.887
MBC3A15H	236	18.1943	2.8986	23.0209	-3.4403	2.5623	-0.4137	0.0000	0.0000	4.34131	3.52339	221.887
D435	237	5.6198	1.3799	48.0593	-5.0790	1.3463	-0.4137	0.0000	0.0000	4.38825	3.53747	224.826
IPM3A16	238	5.6198	1.3799	48.0593	-5.0790	1.3463	-0.4137	0.0000	0.0000	4.38825	3.53747	224.826
D403	239	5.0259	1.2638	50.3694	-5.2043	1.2533	-0.4137	0.0000	0.0000	4.39498	3.53820	225.051
MQA3A16	240	4.5508	0.3470	50.8982	3.4720	1.1604	-0.2085	0.0000	0.0000	4.40505	3.53913	225.351
D428	241	4.3179	0.2511	48.2342	3.3721	1.0792	-0.2085	0.0000	0.0000	4.41905	3.54038	225.740
MBC3A16V	242	4.3179	0.2511	48.2342	3.3721	1.0792	-0.2085	0.0000	0.0000	4.41905	3.54038	225.740
D436	243	5.3700	-0.5675	28.6440	2.5193	0.3861	-0.2085	0.0000	0.0000	4.54036	3.55464	229.065
MBE3A15	244	6.7350	-0.7981	23.6732	2.4300	0.2265	-0.1109	0.0000	0.0000	4.56691	3.56076	230.065
D426	245	12.0671	-1.3903	13.5633	1.7193	-0.0437	-0.1109	0.0000	0.0000	4.61047	3.58247	232.502
MBE3A16	246	15.0546	-1.5985	10.3301	1.4998	-0.1053	-0.0125	0.0000	0.0000	4.62227	3.59594	233.502
D427	247	29.0881	-2.4227	3.6929	0.4021	-0.1487	-0.0125	0.0000	0.0000	4.64893	3.69151	236.992
IPM3A17	248	29.0881	-2.4227	3.6929	0.4021	-0.1487	-0.0125	0.0000	0.0000	4.64893	3.69151	236.992
D403	249	30.1886	-2.4758	3.5281	0.3314	-0.1515	-0.0125	0.0000	0.0000	4.65014	3.70142	237.217
MQA3A17	250	30.1885	2.4762	3.5276	-0.3296	-0.1515	0.0125	0.0000	0.0000	4.65171	3.71508	237.517
D404	251	29.2407	2.4306	3.6666	-0.3903	-0.1491	0.0125	0.0000	0.0000	4.65274	3.72363	237.710
MBC3A17H	252	29.2407	2.4306	3.6666	-0.3903	-0.1491	0.0125	0.0000	0.0000	4.65274	3.72363	237.710
D437	253	25.9467	2.2648	4.3690	-0.6108	-0.1404	0.0125	0.0000	0.0000	4.65680	3.75167	238.412
ITV3A17	254	25.9467	2.2648	4.3690	-0.6108	-0.1404	0.0125	0.0000	0.0000	4.65680	3.75167	238.412
D425	255	15.0524	1.5978	10.3126	-1.4970	-0.1053	0.0125	0.0000	0.0000	4.67958	3.82067	241.231
MBE3A17	256	12.0646	1.3904	13.5399	-1.7164	-0.0437	0.1109	0.0000	0.0000	4.69138	3.83417	242.232
D426	257	6.7325	0.7980	23.6340	-2.4265	0.2266	0.1109	0.0000	0.0000	4.73495	3.85591	244.668
MBE3A18	258	5.3678	0.5674	28.5978	-2.5158	0.3861	0.2085	0.0000	0.0000	4.76151	3.86204	245.669
D427	259	4.4070	-0.2921	49.2786	-3.4102	1.1136	0.2085	0.0000	0.0000	4.88887	3.87686	249.158
IPM3A18	260	4.4070	-0.2921	49.2786	-3.4102	1.1136	0.2085	0.0000	0.0000	4.88887	3.87686	249.158
D403	261	4.5507	-0.3474	50.8237	-3.4678	1.1604	0.2085	0.0000	0.0000	4.89686	3.87757	249.383
MQA3A18	262	5.0260	-1.2642	50.2963	5.1958	1.2533	0.4138	0.0000	0.0000	4.90694	3.87851	249.683
D428	263	6.0886	-1.4655	46.3358	4.9791	1.4144	0.4138	0.0000	0.0000	4.91814	3.87979	250.072
MBC3A18V	264	6.0886	-1.4655	46.3358	4.9791	1.4144	0.4138	0.0000	0.0000	4.91814	3.87979	250.072
D429	265	18.0174	-2.8835	23.2090	3.4523	2.5493	0.4138	0.0000	0.0000	4.96032	3.89312	252.815
D403	266	19.3390	-2.9996	21.6859	3.3273	2.6422	0.4138	0.0000	0.0000	4.96223	3.89471	253.040
MQA3A19	267	19.3391	2.9994	21.6860	-3.3276	2.6431	-0.4081	0.0000	0.0000	4.96466	3.89695	253.340
D404	268	18.1997	2.8996	22.9923	-3.4352	2.5643	-0.4081	0.0000	0.0000	4.96630	3.89833	253.533
MBC3A19H	269	18.1997	2.8996	22.9923	-3.4352	2.5643	-0.4081	0.0000	0.0000	4.96630	3.89833	253.533
D438	270	5.0268	1.2643	50.3000	-5.1965	1.2732	-0.4081	0.0000	0.0000	5.01995	3.91315	256.697
IPM3A20	271	5.0268	1.2643	50.3000	-5.1965	1.2732	-0.4081	0.0000	0.0000	5.01995	3.91315	256.697
MQA3A20	272	4.5514	0.3473	50.8277	3.4677	1.1825	-0.1992	0.0000	0.0000	5.03003	3.91409	256.997
D428	273	4.3183	0.2515	48.1669	3.3680	1.1049	-0.1992	0.0000	0.0000	5.04402	3.91534	257.386
MBC3A20V	274	4.3183	0.2515	48.1669	3.3680	1.1049	-0.1992	0.0000	0.0000	5.04402	3.91534	257.386
D432	275	5.3684	-0.5673	28.6018	2.5159	0.4424	-0.1992	0.0000	0.0000	5.16535	3.92962	260.711
MBE3A19	276	6.7329	-0.7978	23.6379	2.4266	0.2921	-0.1018	0.0000	0.0000	5.19190	3.93575	261.712
D426	277	12.0639	-1.3901	13.5431	1.7165	0.0440	-0.1018	0.0000	0.0000	5.23547	3.95749	264.148
MBE3A20	278	15.0510	-1.5974	10.3154	1.4972	-0.0086	-0.0036	0.0000	0.0000	5.24728	3.97098	265.149
D427	279											

IPM3A24	300	5.6195	1.3802	48.0227	-5.0731	1.3111	-0.3998	0.0000	0.0000	5.63821	4.28732	288.118
D403	301	5.0255	1.2641	50.3302	-5.1982	1.2213	-0.3998	0.0000	0.0000	5.64494	4.28805	288.343
MQA3A24	302	4.5501	0.3473	50.8573	3.4711	1.1317	-0.1996	0.0000	0.0000	5.65501	4.28899	288.643
D428	303	4.3170	0.2515	48.1940	3.3713	1.0540	-0.1996	0.0000	0.0000	5.66901	4.29024	289.032
MBC3A24V	304	4.3170	0.2515	48.1940	3.3713	1.0540	-0.1996	0.0000	0.0000	5.66901	4.29024	289.032
D436	305	5.3679	-0.5675	28.6104	2.5181	0.3902	-0.1996	0.0000	0.0000	5.79037	4.30451	292.357
MBE3A23	306	6.7329	-0.7982	23.6423	2.4285	0.2394	-0.1021	0.0000	0.0000	5.81693	4.31063	293.358
D426	307	12.0658	-1.3906	13.5401	1.7177	-0.0093	-0.1021	0.0000	0.0000	5.86049	4.33238	295.794
MBE3A24	308	15.0540	-1.5989	10.3105	1.4979	-0.0622	-0.0037	0.0000	0.0000	5.87229	4.34587	296.795
D427	309	29.0912	-2.4234	3.6870	0.4000	-0.0753	-0.0037	0.0000	0.0000	5.89896	4.44163	300.285
IPM3A25	310	29.0912	-2.4234	3.6870	0.4000	-0.0753	-0.0037	0.0000	0.0000	5.89896	4.44163	300.285
D403	311	30.1919	-2.4765	3.5232	0.3293	-0.0761	-0.0037	0.0000	0.0000	5.90017	4.45156	300.509
MQA3A25	312	30.1921	2.4761	3.5237	-0.3311	-0.0754	0.0087	0.0000	0.0000	5.90173	4.46524	300.809
D404	313	29.2444	2.4304	3.6633	-0.3919	-0.0737	0.0087	0.0000	0.0000	5.90277	4.47380	301.002
MBC3A25H	314	29.2444	2.4304	3.6633	-0.3919	-0.0737	0.0087	0.0000	0.0000	5.90277	4.47380	301.002
D437	315	25.9505	2.2647	4.3682	-0.6128	-0.0676	0.0087	0.0000	0.0000	5.90682	4.50185	301.704
ITV3A25	316	25.9505	2.2647	4.3682	-0.6128	-0.0676	0.0087	0.0000	0.0000	5.90682	4.50185	301.704
D425	317	15.0563	1.5988	10.3281	-1.5008	-0.0431	0.0087	0.0000	0.0000	5.92960	4.57081	304.524
MBE3A25	318	12.0683	1.3905	13.5635	-1.7206	0.0147	0.1070	0.0000	0.0000	5.94140	4.58428	305.524
D426	319	6.7354	0.7982	23.6816	-2.4321	0.2755	0.1070	0.0000	0.0000	5.98496	4.60598	307.961
MBE3A26	320	5.3701	0.5677	28.6567	-2.5216	0.4311	0.2045	0.0000	0.0000	6.01150	4.61210	308.961
D427	321	4.4068	-0.2916	49.3835	-3.4176	1.1446	0.2045	0.0000	0.0000	6.13883	4.62688	312.451
IPM3A26	322	4.4068	-0.2916	49.3835	-3.4176	1.1446	0.2045	0.0000	0.0000	6.13883	4.62688	312.451
D403	323	4.5502	-0.3469	50.9320	-3.4753	1.1906	0.2045	0.0000	0.0000	6.14682	4.62760	312.676
MQA3A26	324	5.0253	-1.2636	50.4035	5.2067	1.2831	0.4149	0.0000	0.0000	6.15690	4.62853	312.976
D428	325	6.0873	-1.4648	46.4347	4.9897	1.4445	0.4149	0.0000	0.0000	6.16811	4.62981	313.365
MBC3A26V	326	6.0873	-1.4648	46.4347	4.9897	1.4445	0.4149	0.0000	0.0000	6.16811	4.62981	313.365
D429	327	18.0106	-2.8822	23.2582	3.4599	2.5824	0.4149	0.0000	0.0000	6.21029	4.64311	316.108
D403	328	19.3317	-2.9982	21.7318	3.3346	2.6756	0.4149	0.0000	0.0000	6.21221	4.64470	316.332
MQA3A27	329	19.3316	2.9985	21.7317	-3.3343	2.6753	-0.4172	0.0000	0.0000	6.21464	4.64693	316.632
D404	330	18.1926	2.8986	23.0405	-3.4420	2.5947	-0.4172	0.0000	0.0000	6.21628	4.64831	316.825
MBC3A27H	331	18.1926	2.8986	23.0405	-3.4420	2.5947	-0.4172	0.0000	0.0000	6.21628	4.64831	316.825
D438	332	5.0246	1.2636	50.4000	-5.2060	1.2748	-0.4172	0.0000	0.0000	6.26995	4.66310	319.989
IPM3A28	333	5.0246	1.2636	50.4000	-5.2060	1.2748	-0.4172	0.0000	0.0000	6.26995	4.66310	319.989
MQA3A28	334	4.5495	0.3470	50.9283	3.4754	1.1814	-0.2083	0.0000	0.0000	6.28003	4.66404	320.289
D428	335	4.3166	0.2512	48.2617	3.3754	1.1003	-0.2083	0.0000	0.0000	6.29403	4.66529	320.678
MBC3A28V	336	4.3166	0.2512	48.2617	3.3754	1.1003	-0.2083	0.0000	0.0000	6.29403	4.66529	320.678
D432	337	5.3695	-0.5678	28.6529	2.5215	0.4077	-0.2083	0.0000	0.0000	6.41538	4.67954	324.004
MBE3A27	338	6.7350	-0.7984	23.6779	2.4320	0.2483	-0.1108	0.0000	0.0000	6.44192	4.68566	325.004
D426	339	12.0691	-1.3908	13.5604	1.7204	-0.0216	-0.1108	0.0000	0.0000	6.48548	4.70736	327.441
MBE3A28	340	15.0576	-1.5991	10.3253	1.5006	-0.0831	-0.0124	0.0000	0.0000	6.49727	4.72084	328.441
D427	341	29.0959	-2.4235	3.6873	0.4015	-0.1263	-0.0124	0.0000	0.0000	6.52393	4.81652	331.931
IPM3A29	342	29.0959	-2.4235	3.6873	0.4015	-0.1263	-0.0124	0.0000	0.0000	6.52393	4.81652	331.931
D403	343	30.1967	-2.4766	3.5228	0.3308	-0.1291	-0.0124	0.0000	0.0000	6.52514	4.82644	332.155
MQA3A29	344	30.1967	2.4767	3.5224	-0.3295	-0.1296	0.0089	0.0000	0.0000	6.52671	4.84013	332.455
D404	345	29.2487	2.4311	3.6614	-0.3903	-0.1279	0.0089	0.0000	0.0000	6.52774	4.84869	332.649
MBC3A29H	346	29.2487	2.4311	3.6614	-0.3903	-0.1279	0.0089	0.0000	0.0000	6.52774	4.84869	332.649
D433	347	15.0570	1.5991	10.3125	-1.4985	-0.0966	0.0089	0.0000	0.0000	6.55458	4.94581	336.170
MBE3A29	348	12.0684	1.3908	13.5433	-1.7183	-0.0386	0.1073	0.0000	0.0000	6.56637	4.95930	337.170
D426	349	6.7343	0.7984	23.6492	-2.4294	0.2229	0.1073	0.0000	0.0000	6.60993	4.98104	339.607
MBE3A30	350	5.3688	0.5677	28.6191	-2.5190	0.3788	0.2049	0.0000	0.0000	6.63648	4.98716	340.607
D439	351	4.5495	-0.3471	50.8738	-3.4723	1.1398	0.2049	0.0000	0.0000	6.77184	5.00268	344.322
IPM3A30	352	4.5495	-0.3471	50.8738	-3.4723	1.1398	0.2049	0.0000	0.0000	6.77184	5.00268	344.322
MQA3A30	353	5.0246	-1.2638	50.3465	5.1998	1.2311	0.4065	0.0000	0.0000	6.78191	5.00362	344.622
D428	354	6.0868	-1.4649	46.3829	4.9831	1.3894	0.4065	0.0000	0.0000	6.79313	5.00490	345.011
MBC3A30V	355	6.0868	-1.4649	46.3829	4.9831	1.3894	0.4065	0.0000	0.0000	6.79313	5.00490	345.011
D434	356	18.0120	-2.8827	23.2365	3.4555	2.5045	0.4065	0.0000	0.0000	6.83531	5.01821	347.754
D403	357	19.3332	-2.9988	21.7120	3.3304	2.5958	0.4065	0.0000	0.0000	6.83723	5.01980	347.979
MQA3A31	358	19.3334	2.9984	21.7127	-3.3326	2.5967	-0.4009	0.0000	0.0000	6.83966	5.02204	348.279
D404	359	18.1943	2.8986	23.0209	-3.4403	2.5192	-0.4009	0.0000	0.0000	6.84130	5.02341	348.472
MBC3A31H	360	18.1943	2.8986	23.0209	-3.4403	2.5192	-0.4009	0.0000	0.0000	6.84130	5.02341	348.472
D435	361	5.6198	1.3799	48.0593	-5.0790	1.3411	-0.4009	0.0000	0.0000	6.88823	5.03749	351.411
IPM3A32	362	5.6198	1.3799	48.0593	-5.0790	1.3411	-0.4009	0.0000	0.0000	6.88823	5.03749	351.411
D403	363	5.0259	1.2638	50.3695	-5.2043	1.2510	-0.4009	0.0000	0.0000	6.89496	5.03822	351.635
MQA3A32	364	4.5508	0.3470	50.8982	3.4720	1.1619	-0.1957	0.0000	0.0000	6.90504	5.03916	351.935
D440	365	5.3700	-0.5675	28.6440	2.5193	0.4351	-0.1957	0.0000	0.0000	7.04035	5.05466	355.650
MBE3A31	366	6.7350	-0.7981	23.6732	2.4300	0.2884	-0.0982	0.0000	0.0000	7.06690	5.06078	356.650
D426	367	12.0671	-1.3903	13.5633	1.7193	0.0491	-0.0982	0.0000	0.0000	7.11045	5.08249	359.087
MBE3A32	368	15.0546	-1.5985	10.3301	1.4998	0.0000	0.0000	0.0000	0.0000	7.12225	5.09596	360.087
D427A	369	29.1015	-2.4234	3.6907	0.4012	0.0000	0.0000	0.0000	0.0000	7.14893	5.19165	363.580
IPM3R01	370	29.1015	-2.4234	3.6907	0.4012	0.0000	0.0000	0.0000	0.0000	7.14893	5.19165	363.580
D403	371	30.2022	-2.4764	3.5263	0.3305	0.0000	0.0000	0.0000	0.0000	7.15014	5.20157	363.804
MQA3R01	372	29.7346	4.0014	3.5812	-0.5175	0.0000	0.0000	0.0000	0.0000	7.15172	5.21516	364.104
D404	373	28.2102	3.8909	3.7943	-0.5858	0.0000	0.0000	0.0000	0.0000	7.15278	5.22351	364.298
MBC3R01H	374	28.2102	3.8909	3.7943	-0.5858	0.0000	0.0000	0.0000	0.0000	7.15278	5.22351	364.298
D437	375	23.0325	3.4895	4.7905	-0.8342	0.0000	0.0000	0.0000	0.0000	7.15716	5.24981	364.999
ITV3R01	376	23.0325	3.4895	4.7905	-0.8342	0.0000	0.0000	0.0000	0.0000	7.15716	5.24981	364.999
D441	377	8.8321	2.0131	11.4537	-1.7478	0.0000	0.0000	0.0000	0.0000	7.18611	5.30645	367.580
IPM3R02	378	8.8321	2.0131	11.4537	-1.7478	0.0000	0.0000	0.0000	0.0000	7.18611	5.30645	367.580
D403	379	7.9564	1.8846	12.2569	-1.8273	0.0000	0.0000	0.0000	0.0000	7.19038	5.30947	367.804
MQA3R02	380	7.8451	-1.4979	11.7863	3.3282	0.0000	0.0000	0.0000	0.0000	7.19656	5.31336	368.104
D404	381	8.4392	-1.5778	10.5388	3.1303	0.0000	0.0000	0.0000	0.0000	7.20033	5.31611	368.298
MBC3R02H	382	8.4392	-1.5778	10.5388	3.1303	0.0000	0.0000	0.0000	0.0000	7.20033	5.31611	368.298
D405	383	9.										

MQA3R06	404	47.0611	10.3757	14.0899	-3.2659	0.0000	0.0000	0.0000	0.0000	7.31732	5.76414	382.104
D404	405	43.1391	9.9298	15.3824	-3.4258	0.0000	0.0000	0.0000	0.0000	7.31800	5.76622	382.298
MBC3R06H	406	43.1391	9.9298	15.3824	-3.4258	0.0000	0.0000	0.0000	0.0000	7.31800	5.76622	382.298
D445	407	18.4562	6.4507	27.5867	-4.6734	0.0000	0.0000	0.0000	0.0000	7.32650	5.77788	383.804
MQA3R07	408	16.0882	1.6492	28.1963	2.6949	0.0000	0.0000	0.0000	0.0000	7.32931	5.77957	384.104
D428	409	14.8394	1.5592	26.1428	2.5808	0.0000	0.0000	0.0000	0.0000	7.33332	5.78185	384.494
MBC3R07V	410	14.8394	1.5592	26.1428	2.5808	0.0000	0.0000	0.0000	0.0000	7.33332	5.78185	384.494
D446A	411	10.4917	1.1941	18.7227	2.1181	0.0000	0.0000	0.0000	0.0000	7.35352	5.79322	386.073
MAA3R01	412	8.2081	1.0732	14.8674	1.7511	0.0000	0.0000	-0.0468	-0.0939	7.37071	5.80275	387.073
D411	413	3.8620	-0.1117	4.6256	0.5149	0.0000	0.0000	-0.4711	-0.0939	7.51903	5.89449	391.593
MAA3R03	414	4.2939	-0.3171	3.8906	0.2227	0.0000	0.0000	-0.5192	-0.0026	7.55853	5.93232	392.593
D447	415	4.5889	-0.4197	3.7555	0.1147	0.0000	0.0000	-0.5203	-0.0026	7.57290	5.94902	392.994
IPM3R08	416	4.5889	-0.4197	3.7555	0.1147	0.0000	0.0000	-0.5203	-0.0026	7.57290	5.94902	392.994
D403	417	4.7904	-0.4773	3.7176	0.0541	0.0000	0.0000	-0.5209	-0.0026	7.58053	5.95860	393.218
MQA3R08	418	5.6856	-2.6183	3.3059	1.2660	0.0000	0.0000	-0.4925	0.1903	7.58986	5.97198	393.518
D409	419	9.0165	-3.3850	2.1433	0.8292	0.0000	0.0000	-0.3869	0.1903	7.60221	6.00540	394.073
MBC3R08H	420	9.0165	-3.3850	2.1433	0.8292	0.0000	0.0000	-0.3869	0.1903	7.60221	6.00540	394.073
D408	421	25.1639	-5.8111	1.6590	-0.5533	0.0000	0.0000	-0.0527	0.1903	7.62080	6.19601	395.829
MBC3R09V	422	25.1639	-5.8111	1.6590	-0.5533	0.0000	0.0000	-0.0527	0.1903	7.62080	6.19601	395.829
D405	423	27.4961	-6.0820	1.9062	-0.7077	0.0000	0.0000	-0.0154	0.1903	7.62199	6.21360	396.025
MBC3R09H	424	27.4961	-6.0820	1.9062	-0.7077	0.0000	0.0000	-0.0154	0.1903	7.62199	6.21360	396.025
D404	425	29.8971	-6.3489	2.2090	-0.8598	0.0000	0.0000	0.0213	0.1903	7.62306	6.22860	396.218
MQA3R09	426	31.0060	2.7634	3.0330	-1.9682	0.0000	0.0000	0.0802	0.2053	7.62461	6.24737	396.518
D403	427	29.7785	2.7008	3.9984	-2.3292	0.0000	0.0000	0.1264	0.2053	7.62578	6.25764	396.743
IPM3R09	428	29.7785	2.7008	3.9984	-2.3292	0.0000	0.0000	0.1264	0.2053	7.62578	6.25764	396.743
D448	429	13.9896	1.7020	41.3705	-8.0921	0.0000	0.0000	0.8627	0.2053	7.65389	6.30262	400.329
MBC3R10V	430	13.9896	1.7020	41.3705	-8.0921	0.0000	0.0000	0.8627	0.2053	7.65389	6.30262	400.329
D405	431	13.3329	1.6473	44.6058	-8.4072	0.0000	0.0000	0.9030	0.2053	7.65618	6.30334	400.525
MBC3R10H	432	13.3329	1.6473	44.6058	-8.4072	0.0000	0.0000	0.9030	0.2053	7.65618	6.30334	400.525
D404	433	12.7069	1.5935	47.9135	-8.7176	0.0000	0.0000	0.9426	0.2053	7.65854	6.30401	400.718
MQA3R10	434	12.5492	-1.0568	50.1289	1.4879	0.0000	0.0000	0.9742	0.0040	7.66236	6.30497	401.018
D403	435	13.0325	-1.0947	49.4636	1.4735	0.0000	0.0000	0.9751	0.0040	7.66516	6.30569	401.243
IPM3R10	436	13.0325	-1.0947	49.4636	1.4735	0.0000	0.0000	0.9751	0.0040	7.66516	6.30569	401.243
D449A	437	13.7629	-1.1496	48.5112	1.4527	0.0000	0.0000	0.9764	0.0040	7.66902	6.30675	401.568
MAV3R04	438	18.2798	-1.0498	42.9893	1.3252	0.0000	0.0000	0.7641	-0.2177	7.68919	6.31368	403.573
D450A	439	22.7549	-1.2715	38.1182	1.2016	0.0000	0.0000	0.3444	-0.2177	7.70425	6.32126	405.500
MAS3R05	440	26.0586	-1.0966	34.4416	1.1355	0.0000	0.0000	0.1718	-0.1139	7.71089	6.32571	406.515
D451	441	28.3517	-1.1816	32.2230	1.0686	0.0000	0.0000	0.0572	-0.1139	7.71678	6.33052	407.522
MAQ3R06	442	30.8197	-0.8794	29.7481	1.0017	0.0000	0.0000	0.0000	0.0000	7.72218	6.33566	408.524

MAXIMUM LATTICE FUNCTIONS :
 BETA X = 0.1480883318E+03 BETA Y = 0.9287176290E+02
 ETA X = 0.2675633776E+01 ETA Y = 0.9998165488E+00

1
 OPERATION LIST ,
 MATRIX

1 -1,

AFTER :MAQ3R06 ELEMENT #: 442

 * TRANSFORMATION MATRIX *

FIRST ORDER MATRIX

-0.1368775E+01 -0.5053604E+02 0.1615149E-13 0.1114989E-12 0.0000000E+00 -0.1861535E-05
 -0.2711017E-01 -0.1731506E+01 0.1212916E-14 -0.9263623E-14 0.0000000E+00 -0.6038045E-06
 -0.1209339E-13 0.1606832E-13 -0.1483915E+01 0.2895651E+02 0.0000000E+00 0.1927725E-04
 -0.1192195E-14 0.2197098E-13 0.4521292E-01 -0.1556159E+01 0.0000000E+00 -0.4456148E-05
 -0.7760058E-06 0.2729063E-04 0.5740966E-05 -0.9903602E-04 0.1000000E+01 0.5904443E-03
 -0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.1000000E+01

HORIZONTAL MOVEMENT ANALYSIS

COMPACTION FACTOR = 0.1445312E-05 GAMMA TR = 0.8318005E+03

MOVEMENT IS UNSTABLE

HALF-TRACE = -0.15501400718333E+01
 EIGENVALUE1 = -0.36568482054546E+00
 WITH EIGENVECTOR :
 X = 0.99980306686428E+00 XP = -0.19845087270667E-01
 EIGENVALUE2 = -0.27345953231211E+01
 WITH EIGENVECTOR :
 X = 0.99963497958858E+00 XP = 0.27016801863642E-01

VERTICAL MOVEMENT ANALYSIS

MOVEMENT IS UNSTABLE

HALF-TRACE = -0.15200371901307E+01
 EIGENVALUE1 = -0.37526076681460E+00
 WITH EIGENVECTOR :
 Y = -0.99926786187546E+00 YP = -0.38258858096454E-01
 EIGENVALUE2 = -0.26648136134467E+01
 WITH EIGENVECTOR :
 Y = -0.99916945859348E+00 YP = 0.40747920364380E-01

1
 OPERATION LIST ,

HARDWARE

3.39249 1556.19 80.6 100 90.5537 0 0.0 0 1 0 ;

VALUES ARE FOR ENERGY : 0.339E+01 GEV

THE LENGTHS ARE MEASURED IN METERS ,THE ANGLES IN DEGREES

THE XYZ COORDINATES,AZIMUTH,ELEVATION AND ROLL ANGLES ARE :

#	NAME	S	X	Y	Z	THETA	PHI	PSI
1	MAQ3S01	1557.1921700000	80.6000000000	100.0571357832	91.5536950764	0.0000000000	6.5402000000	0.0000000000
2	D400	1558.1987200000	80.6000000000	100.1717821282	92.5536946355	0.0000000000	6.5402000000	0.0000000000
3	MAS3S02	1559.2133900000	80.6000000000	100.3408597039	93.5536904916	0.0000000000	12.6532200000	0.0000000000
4	D401A	1561.1411700000	80.6000000000	100.7631392215	95.4346518781	0.0000000000	12.6532200000	0.0000000000
5	MAV3S03	1563.1452400000	80.6000000000	100.9835314238	97.4224716269	0.0000000000	0.0000200000	0.0000000000
6	D402A	1563.4707000000	80.6000000000	100.9835315374	97.7479316269	0.0000000000	0.0000200000	0.0000000000
7	IPM3S01	1563.4707000000	80.6000000000	100.9835315374	97.7479316269	0.0000000000	0.0000200000	0.0000000000
8	D403	1563.6953000000	80.6000000000	100.9835316158	97.9725816269	0.0000000000	0.0000200000	0.0000000000
9	MQA3S01	1563.9953500000	80.6000000000	100.9835317205	98.2725816269	0.0000000000	0.0000200000	0.0000000000
10	D404	1564.1885000000	80.6000000000	100.9835317879	98.4657316269	0.0000000000	0.0000200000	0.0000000000
11	MBC3S01H	1564.1885000100	80.6000000000	100.9835317879	98.4657316369	0.0000000000	0.0000200000	0.0000000000
12	D405	1564.3845900100	80.6000000000	100.9835318564	98.6618216369	0.0000000000	0.0000200000	0.0000000000
13	MBC3S01V	1564.3845900200	80.6000000000	100.9835318564	98.6618216469	0.0000000000	0.0000200000	0.0000000000
14	D406	1565.3980500200	80.6000000000	100.9835322101	99.6752816469	0.0000000000	0.0000200000	0.0000000000
15	ITV3S01	1565.3980500200	80.6000000000	100.9835322101	99.6752816469	0.0000000000	0.0000200000	0.0000000000
16	D407	1567.9707000020	80.6000000000	100.9835331082	102.2479316469	0.0000000000	0.0000200000	0.0000000000
17	IPM3S02	1567.9707000020	80.6000000000	100.9835331082	102.2479316469	0.0000000000	0.0000200000	0.0000000000
18	D403	1568.1953500020	80.6000000000	100.9835331866	102.4725816469	0.0000000000	0.0000200000	0.0000000000
19	MQA3S02	1568.4953500020	80.6000000000	100.9835332913	102.7725816469	0.0000000000	0.0000200000	0.0000000000
20	D404	1568.6885000020	80.6000000000	100.9835333587	102.9657316469	0.0000000000	0.0000200000	0.0000000000
21	MBC3S02H	1568.6885000300	80.6000000000	100.9835333587	102.9657316569	0.0000000000	0.0000200000	0.0000000000
22	D405	1568.8845900300	80.6000000000	100.9835334272	103.1618216569	0.0000000000	0.0000200000	0.0000000000
23	MBC3S02V	1568.8845900400	80.6000000000	100.9835334272	103.1618216669	0.0000000000	0.0000200000	0.0000000000
24	D408	1570.6405000400	80.6000000000	100.9835340401	104.9177316669	0.0000000000	0.0000200000	0.0000000000
25	MBC3S03H	1570.6405000500	80.6000000000	100.9835340401	104.9177316769	0.0000000000	0.0000200000	0.0000000000
26	D409	1571.1953500500	80.6000000000	100.9835342338	105.4725816769	0.0000000000	0.0000200000	0.0000000000
27	MQA3S03	1571.4953500500	80.6000000000	100.9835343385	105.7725816769	0.0000000000	0.0000200000	0.0000000000
28	D403	1571.7200000500	80.6000000000	100.9835344169	105.9972316769	0.0000000000	0.0000200000	0.0000000000
29	IPM3S03	1571.7200000500	80.6000000000	100.9835344169	105.9972316769	0.0000000000	0.0000200000	0.0000000000
30	D410	1572.1203500500	80.6000000000	100.9835345567	106.3975816769	0.0000000000	0.0000200000	0.0000000000
31	MAA3S04	1573.1207200500	80.6000000000	101.0303612130	107.3964889019	0.0000000000	5.3678600000	0.0000000000
32	D411	1577.6405400500	80.6000000000	101.4531896474	111.8964876739	0.0000000000	5.3678600000	0.0000000000
33	MAA3S06	1578.6409100500	80.6000000000	101.5000163037	112.8953948989	0.0000000000	0.0000200000	0.0000000000
34	D412A	1580.6092500500	80.6000000000	101.5000169908	114.8637348989	0.0000000000	0.0000200000	0.0000000000
35	MQA3S04	1580.9092500500	80.6000000000	101.5000170955	115.1637348989	0.0000000000	0.0000200000	0.0000000000
36	D413	1581.8039500500	80.6000000000	101.5000174078	116.0584348989	0.0000000000	0.0000200000	0.0000000000
37	ITV3S04	1581.8039500500	80.6000000000	101.5000174078	116.0584348989	0.0000000000	0.0000200000	0.0000000000
38	D414	1582.3846000500	80.6000000000	101.5000176105	116.6390848989	0.0000000000	0.0000200000	0.0000000000
39	IPM3S05	1582.3846000500	80.6000000000	101.5000176105	116.6390848989	0.0000000000	0.0000200000	0.0000000000
40	D403	1582.6092500500	80.6000000000	101.5000176889	116.8637348989	0.0000000000	0.0000200000	0.0000000000
41	MQA3S05	1582.9092500500	80.6000000000	101.5000177937	117.1637348989	0.0000000000	0.0000200000	0.0000000000
42	D404	1583.1024000500	80.6000000000	101.5000178611	117.3568848989	0.0000000000	0.0000200000	0.0000000000
43	MBC3S05H	1583.1024000600	80.6000000000	101.5000178611	117.3568849089	0.0000000000	0.0000200000	0.0000000000
44	D405	1583.2984900600	80.6000000000	101.5000179295	117.5529749089	0.0000000000	0.0000200000	0.0000000000
45	MBC3S05V	1583.2984900700	80.6000000000	101.5000179295	117.5529749189	0.0000000000	0.0000200000	0.0000000000
46	D415	1584.6092500700	80.6000000000	101.5000183871	118.8637349189	0.0000000000	0.0000200000	0.0000000000
47	MQA3S06	1584.9092500700	80.6000000000	101.5000184918	119.1637349189	0.0000000000	0.0000200000	0.0000000000
48	D404	1585.1024000700	80.6000000000	101.5000185592	119.3568849189	0.0000000000	0.0000200000	0.0000000000
49	D405	1585.2984900700	80.6000000000	101.5000186277	119.5529749189	0.0000000000	0.0000200000	0.0000000000
50	D417	1588.3846000700	80.6000000000	101.5000197049	122.6390849189	0.0000000000	0.0000200000	0.0000000000
51	IPM3S07	1588.3846000700	80.6000000000	101.5000197049	122.6390849189	0.0000000000	0.0000200000	0.0000000000
52	D403	1588.6092500700	80.6000000000	101.5000197833	122.8637349189	0.0000000000	0.0000200000	0.0000000000
53	MQA3S07	1588.9092500700	80.6000000000	101.5000198881	123.1637349189	0.0000000000	0.0000200000	0.0000000000
54	D404	1589.1024000700	80.6000000000	101.5000199555	123.3568849189	0.0000000000	0.0000200000	0.0000000000
55	MBC3S07H	1589.1024000800	80.6000000000	101.5000199555	123.3568849289	0.0000000000	0.0000200000	0.0000000000
56	D405	1589.2984900800	80.6000000000	101.5000200239	123.5529749289	0.0000000000	0.0000200000	0.0000000000
57	MBC3S07V	1589.2984900900	80.6000000000	101.5000200239	123.5529749389	0.0000000000	0.0000200000	0.0000000000
58	D417	1592.3846000900	80.6000000000	101.5000211012	126.6390849389	0.0000000000	0.0000200000	0.0000000000
59	IPM3S08	1592.3846000900	80.6000000000	101.5000211012	126.6390849389	0.0000000000	0.0000200000	0.0000000000
60	D403	1592.6092500900	80.6000000000	101.5000211796	126.8637349389	0.0000000000	0.0000200000	0.0000000000
61	MQA3S08	1592.9092500900	80.6000000000	101.5000212843	127.1637349389	0.0000000000	0.0000200000	0.0000000000
62	D404	1593.1024000900	80.6000000000	101.5000213517	127.3568849389	0.0000000000	0.0000200000	0.0000000000
63	MBC3S08H	1593.1024001000	80.6000000000	101.5000213517	127.3568849489	0.0000000000	0.0000200000	0.0000000000
64	D405	1593.2984901000	80.6000000000	101.5000214202	127.5529749489	0.0000000000	0.0000200000	0.0000000000
65	MBC3S08V	1593.2984901100	80.6000000000	101.5000214202	127.5529749589	0.0000000000	0.0000200000	0.0000000000
66	D417	1596.3846001100	80.6000000000	101.5000224974	130.6390849589	0.0000000000	0.0000200000	0.0000000000
67	IPM3S09	1596.3846001100	80.6000000000	101.5000224974	130.6390849589	0.0000000000	0.0000200000	0.0000000000
68	D403	1596.6092501100	80.6000000000	101.5000225759	130.8637349589	0.0000000000	0.0000200000	0.0000000000
69	MQA3S09	1596.9092501100	80.6000000000	101.5000226806	131.1637349589	0.0000000000	0.0000200000	0.0000000000
70	D404	1597.1024001100	80.6000000000	101.5000227480	131.3568849589	0.0000000000	0.0000200000	0.0000000000
71	MBC3S09H	1597.1024001200	80.6000000000	101.5000227480	131.3568849689	0.0000000000	0.0000200000	0.0000000000
72	D405	1597.2984901200	80.6000000000	101.5000228164	131.5529749689	0.0000000000	0.0000200000	0.0000000000
73	MBC3S09V	1597.2984901300	80.6000000000	101.5000228164	131.5529749789	0.0000000000	0.0000200000	0.0000000000
74	D417	1600.3846001300	80.6000000000	101.5000238937	134.6390849789	0.0000000000	0.0000200000	0.0000000000
75	IPM3S10	1600.3846001300	80.6000000000	101.5000238937	134.6390849789	0.0000000000	0.0000200000	0.0000000000
76	D403	1600.6092501300	80.6000000000	101.5000239721	134.8637349789	0.0000000000	0.0000200000	0.0000000000
77	MQA3S10	1600.9092501300	80.6000000000	101.5000240768	135.1637349789	0.0000000000	0.0000200000	0.0000000000
78	D404	1601.1024001300	80.6000000000	101.5000241443	135.3568849789	0.0000000000	0.0000200000	0.0000000000
79	MBC3S10H	1601.1024001400	80.6000000000	101.5000241443	135.3568849889	0.0000000000	0.0000200000	0.0000000000
80	D405	1601.2984901400	80.6000000000	101.5000242127	135.5529749889	0.0000000000	0.0000200000	0.0000000000
81	MBC3S10V	1601.2984901500	80.6000000000	101.50				

89	MBM3E01V	1617.8484801700	80.6000000000	101.5000299897	152.1029650189	0.0000000000	0.0000200000	0.0000000000
90	D421	1618.3539401700	80.6000000000	101.5000301662	152.6084250189	0.0000000000	0.0000200000	0.0000000000
91	IHA3E01	1618.3539401700	80.6000000000	101.5000301662	152.6084250189	0.0000000000	0.0000200000	0.0000000000
92	D422	1618.8342401700	80.6000000000	101.5000303338	153.0887250189	0.0000000000	0.0000200000	0.0000000000
93	MBW3E01	1619.3343771700	80.6101341161	101.5000305084	153.5887250964	2.3222500000	0.0000199836	-0.0000008104
94	D423	1625.0891071700	80.8433146961	101.5000325155	159.3387289390	2.3222500000	0.0000199836	-0.0000008104
95	MBX3E02	1626.0893771700	80.8433147834	101.5000328646	160.3387250963	-2.3222400000	0.0000199836	0.0000008104
96	D423	1631.8441071700	80.6101352069	101.5000348717	166.0887289796	-2.3222400000	0.0000199836	0.0000008104
97	MBW3E03	1632.3442441700	80.6000011781	101.5000350462	166.5887290589	0.0000100000	0.0000200000	0.0000000000
98	D424	1633.4945841700	80.6000013789	101.5000354478	167.7390690589	0.0000100000	0.0000200000	0.0000000000
99	IPM3E02	1633.4945841700	80.6000013789	101.5000354478	167.7390690589	0.0000100000	0.0000200000	0.0000000000
100	D419	1633.7942341700	80.6000014312	101.5000355524	168.0387190589	0.0000100000	0.0000200000	0.0000000000
101	MQB3E02	1633.9442341700	80.6000014573	101.5000356047	168.1887190589	0.0000100000	0.0000200000	0.0000000000
102	D420	1634.2123841700	80.6000015041	101.5000356983	168.4568690589	0.0000100000	0.0000200000	0.0000000000
103	MBM3E02H	1634.2123841800	80.6000015041	101.5000356983	168.4568690589	0.0000100000	0.0000200000	0.0000000000
104	D405	1634.4084741800	80.6000015384	101.5000357668	168.6529590689	0.0000100000	0.0000200000	0.0000000000
105	MBM3E02V	1634.4084741900	80.6000015384	101.5000357668	168.6529590789	0.0000100000	0.0000200000	0.0000000000
106	D418	1650.0445741900	80.6000042674	101.5000412248	184.2890590789	0.0000100000	0.0000200000	0.0000000000
107	IPM3E03	1650.0445741900	80.6000042674	101.5000412248	184.2890590789	0.0000100000	0.0000200000	0.0000000000
108	D419	1650.3442241900	80.6000043197	101.5000413294	184.5887090789	0.0000100000	0.0000200000	0.0000000000
109	MQB3E03	1650.4942241900	80.6000043459	101.5000413818	184.7387090789	0.0000100000	0.0000200000	0.0000000000
110	D420	1650.7623741900	80.6000043927	101.5000414754	185.0068590789	0.0000100000	0.0000200000	0.0000000000
111	MBM3E03H	1650.7623742000	80.6000043927	101.5000414754	185.0068590889	0.0000100000	0.0000200000	0.0000000000
112	D405	1650.9584642000	80.6000044269	101.5000415438	185.2029490889	0.0000100000	0.0000200000	0.0000000000
113	MBM3E03V	1650.9584642100	80.6000044269	101.5000415438	185.2029490989	0.0000100000	0.0000200000	0.0000000000
114	D418	1666.5945642100	80.6000071559	101.5000470019	200.8390490989	0.0000100000	0.0000200000	0.0000000000
115	IPM3A01	1666.5945642100	80.6000071559	101.5000470019	200.8390490989	0.0000100000	0.0000200000	0.0000000000
116	D403	1666.8192142100	80.6000071951	101.5000470803	201.0636990989	0.0000100000	0.0000200000	0.0000000000
117	MQA3A01	1667.1192142100	80.6000072475	101.5000471850	201.3636990989	0.0000100000	0.0000200000	0.0000000000
118	D404	1667.3123642100	80.6000072812	101.5000472524	201.5568490989	0.0000100000	0.0000200000	0.0000000000
119	MBC3A01H	1667.3123642200	80.6000072812	101.5000472524	201.5568491089	0.0000100000	0.0000200000	0.0000000000
120	D405	1667.5084542200	80.6000073154	101.5000473209	201.7529391089	0.0000100000	0.0000200000	0.0000000000
121	MBC3A01V	1667.5084542300	80.6000073154	101.5000473209	201.7529391189	0.0000100000	0.0000200000	0.0000000000
122	D421	1668.0139142300	80.6000074036	101.5000474973	202.2583991189	0.0000100000	0.0000200000	0.0000000000
123	ITV3A01	1668.0139142300	80.6000074036	101.5000474973	202.2583991189	0.0000100000	0.0000200000	0.0000000000
124	D425B	1668.0166842300	80.6000074041	101.5000474983	202.2611691189	0.0000100000	0.0000200000	0.0000000000
125	D425	1670.8364642300	80.6000078963	101.5000484826	205.0809491189	0.0000100000	0.0000200000	0.0000000000
126	MBE3A01	1671.8368642300	80.5509405671	101.5000488312	206.0797428840	-5.6249800000	0.0000199037	0.0000019603
127	D426	1674.2733942300	80.3121197106	101.5000496776	208.5045404094	-5.6249800000	0.0000199037	0.0000019603
128	MBE3A02	1675.2737942300	80.1653899181	101.5000500229	209.4937152958	-11.2499700000	0.0000196157	0.0000039018
129	D427	1678.7636242300	79.4845596518	101.5000512177	212.9164895474	-11.2499700000	0.0000196157	0.0000039018
130	IPM3A02	1678.7636242300	79.4845596518	101.5000512177	212.9164895474	-11.2499700000	0.0000196157	0.0000039018
131	D403	1678.9882742300	79.4407327263	101.5000512946	213.1368229836	-11.2499700000	0.0000196157	0.0000039018
132	MQA3A02	1679.2882742300	79.3822057838	101.5000513973	213.4310585984	-11.2499700000	0.0000196157	0.0000039018
133	D428	1679.6775142300	79.3062690267	101.5000515306	213.8128195007	-11.2499700000	0.0000196157	0.0000039018
134	MBC3A02V	1679.6775142400	79.3062690248	101.5000515306	213.8128195105	-11.2499700000	0.0000196157	0.0000039018
135	D429	1682.4204342400	78.7711532873	101.5000524696	216.5030353520	-11.2499700000	0.0000196157	0.0000039018
136	IPM3A03	1682.4204342400	78.7711532873	101.5000524696	216.5030353520	-11.2499700000	0.0000196157	0.0000039018
137	D403	1682.6450842400	78.7273263618	101.5000525465	216.7233687882	-11.2499700000	0.0000196157	0.0000039018
138	MQA3A03	1682.9450842400	78.6687994193	101.5000526492	217.0176044030	-11.2499700000	0.0000196157	0.0000039018
139	D404	1683.1382342400	78.6311178208	101.5000527154	217.2070430996	-11.2499700000	0.0000196157	0.0000039018
140	MBC3A03H	1683.1382342500	78.6311178208	101.5000527154	217.2070431094	-11.2499700000	0.0000196157	0.0000039018
141	D430	1683.5563242500	78.5495527228	101.5000528585	217.6170996700	-11.2499700000	0.0000196157	0.0000039018
142	IHA3A03	1683.5563242500	78.5495527228	101.5000528585	217.6170996700	-11.2499700000	0.0000196157	0.0000039018
143	D431	1686.0772542500	78.0577449719	101.5000537216	220.0895909644	-11.2499700000	0.0000196157	0.0000039018
144	IPM3A04	1686.0772542500	78.0577449719	101.5000537216	220.0895909644	-11.2499700000	0.0000196157	0.0000039018
145	D403	1686.3019042500	78.0139180464	101.5000537985	220.3099244006	-11.2499700000	0.0000196157	0.0000039018
146	MQA3A04	1686.6019042500	77.9553911039	101.5000539012	220.6416001054	-11.2499700000	0.0000196157	0.0000039018
147	D428	1686.9911442500	77.8794543468	101.5000540344	220.9859209177	-11.2499700000	0.0000196157	0.0000039018
148	MBC3A04V	1686.9911442600	77.8794543449	101.5000540344	220.9859209275	-11.2499700000	0.0000196157	0.0000039018
149	D432	1690.3163742600	77.2307358610	101.5000551729	224.2472579051	-11.2499700000	0.0000196157	0.0000039018
150	MBE3A03	1691.3167742600	76.9877566882	101.5000555115	225.2172876518	-16.8749600000	0.0000191388	0.0000058057
151	D426	1693.7533042600	76.2804709913	101.5000563253	227.5489019818	-16.8749600000	0.0000191388	0.0000058057
152	MBE3A04	1694.7537042600	75.9435824522	101.5000565640	228.4904447053	-22.4999500000	0.0000184776	0.0000076537
153	D427	1698.2435342600	74.6080851430	101.5000577795	231.7146283797	-22.4999500000	0.0000184776	0.0000076537
154	IPM3A05	1698.2435342600	74.6080851430	101.5000577795	231.7146283797	-22.4999500000	0.0000184776	0.0000076537
155	D403	1698.4681842600	74.5221154911	101.5000578519	231.9221779917	-22.4999500000	0.0000184776	0.0000076537
156	MQA3A05	1698.7681842600	74.4073107032	101.5000579487	232.1993419516	-22.4999500000	0.0000184776	0.0000076537
157	D404	1698.9613342600	74.3333955540	101.5000580109	232.3777893478	-22.4999500000	0.0000184776	0.0000076537
158	MBC3A05H	1698.9613342700	74.3333955502	101.5000580109	232.3777893571	-22.4999500000	0.0000184776	0.0000076537
159	D433	1702.4826642700	72.9858473383	101.5000591466	235.6310752472	-22.4999500000	0.0000184776	0.0000076537
160	MBE3A05	1703.4830642700	72.5582902421	101.5000594621	236.5350634085	-28.1249400000	0.0000176384	0.0000094279
161	D426	1705.9195942700	71.4097202011	101.5000602122	238.6838922296	-28.1249400000	0.0000176384	0.0000094279
162	MBE3A06	1706.9199942700	70.8956193071	101.5000605116	239.5416199595	-33.7499300000	0.0000166294	0.0000111114
163	D427	1710.4098242700	68.9567771859	101.5000615245	242.4433099253	-33.7499300000	0.0000166294	0.0000111114
164	IPM3A06	1710.4098242700	68.9567771859	101.5000615245	242.4433099253	-33.7499300000	0.0000166294	0.0000111114
165	D403	1710.6344742700	68.8319685612	101.5000615897	242.6300997262	-33.7499300000	0.0000166294	0.0000111114
166	MQA3A06	1710.9344742700	68.6652977961	101.5000616768	242.8795408135	-33.7499300000	0.0000166294	0.0000111114
167	D428	1711.3237142700	68.4490480340	101.5000617897	243.2031823096	-33.7499300000	0.0000166294	0.0000111114
168	MBC3A06V	1711.3237142800	68.4490480284	101.5000617897	243.2031823179	-33.7499300000	0.0000166294	0.0000111114
169	D434	1714.0666442800	66.9251605555	101.5000625858	245.4838471234	-33.7499300000	0.0000166294	0.0000111114
170	IPM3A07	1714.0666442800	66.9251605555	101.5000625858	245.4838471234	-33.7499300000	0.0000166294	0.0000111114

193	D425	1734.1288843100	54.2602527485	101.5000679817	260.9419267206	-44.9999100000	0.0000141422	0.0000141421
194	MBC3A09	1735.1292843100	53.5193040007	101.5000682161	261.6134857583	-50.6249000000	0.0000126879	0.0000154602
195	D426	1737.5658143100	51.6358435386	101.5000687557	263.1592073142	-50.6249000000	0.0000126879	0.0000154602
196	MBC3A10	1738.5662143100	50.8326384691	101.5000689636	263.7549070744	-56.2498900000	0.0000111114	0.0000166294
197	D427	1742.0560443100	47.9309545943	101.5000696404	265.6937583115	-56.2498900000	0.0000111114	0.0000166294
198	IPM3A10	1742.0560443100	47.9309545943	101.5000696404	265.6937583115	-56.2498900000	0.0000111114	0.0000166294
199	D403	1742.2806943100	47.7441651855	101.5000696840	265.8185675230	-56.2498900000	0.0000111114	0.0000166294
200	MQA3A10	1742.5806943100	47.4947246218	101.5000697422	265.9852390718	-56.2498900000	0.0000111114	0.0000166294
201	D428	1742.9699343100	47.1710838051	101.5000698176	266.2014898506	-56.2498900000	0.0000111114	0.0000166294
202	MBC3A10V	1742.9699343100	47.1710837968	101.5000698176	266.2014898506	-56.2498900000	0.0000111114	0.0000166294
203	D429	1745.17128543200	44.8904320934	101.5000703496	267.7253789383	-56.2498900000	0.0000111114	0.0000166294
204	D403	1745.93755043200	44.7036426847	101.5000703932	267.8501881497	-56.2498900000	0.0000111114	0.0000166294
205	MQA3A11	1746.2375043200	44.4542021210	101.5000704513	268.1068596985	-56.2498900000	0.0000111114	0.0000166294
206	D404	1746.4306543200	44.2936039714	101.5000704888	268.1241683974	-56.2498900000	0.0000111114	0.0000166294
207	MBC3A11H	1746.4306543300	44.2936039630	101.5000704888	268.1241684029	-56.2498900000	0.0000111114	0.0000166294
208	D438	1749.5943243300	41.6631118691	101.5000711023	269.8818143322	-56.2498900000	0.0000111114	0.0000166294
209	IPM3A12	1749.5943243300	41.6631118691	101.5000711023	269.8818143322	-56.2498900000	0.0000111114	0.0000166294
210	MQA3A12	1749.8943243300	41.4136713054	101.5000711605	270.0484858810	-56.2498900000	0.0000111114	0.0000166294
211	D428	1750.2835643300	41.0900304887	101.5000712360	270.2647366654	-56.2498900000	0.0000111114	0.0000166294
212	MBC3A12V	1750.2835643300	41.0900304887	101.5000712360	270.2647366654	-56.2498900000	0.0000111114	0.0000166294
213	D432	1753.6087943400	38.3252063282	101.5000718809	272.1212407794	-56.2498900000	0.0000111114	0.0000166294
214	MBC3A11	1754.6091943400	37.4674802134	101.5000720603	272.6262443681	-61.8748800000	0.0000094280	0.0000176385
215	D426	1757.0457243400	35.3186550008	101.5000724612	273.7748211598	-61.8748800000	0.0000094280	0.0000176385
216	MBC3A12	1758.0461243400	34.4146681827	101.5000726105	274.2023774960	-67.4998700000	0.0000076537	0.0000184776
217	D427	1761.5359543400	31.1904887039	101.5000730767	275.5378849342	-67.4998700000	0.0000076537	0.0000184776
218	IPM3A13	1761.5359543400	31.1904887039	101.5000730767	275.5378849342	-67.4998700000	0.0000076537	0.0000184776
219	D403	1761.76106043400	30.9829393620	101.5000731067	275.6238552382	-67.4998700000	0.0000076537	0.0000184776
220	MQA3A13	1762.0606043400	30.7057757627	101.5000731467	275.7386608968	-67.4998700000	0.0000076537	0.0000184776
221	D428	1762.4498443400	30.3461652314	101.5000731987	275.8876174119	-67.4998700000	0.0000076537	0.0000184776
222	MBC3A13H	1762.4498443500	30.3461652222	101.5000731987	275.8876174157	-67.4998700000	0.0000076537	0.0000184776
223	D436	1765.7750843500	27.2740469327	101.5000736429	277.1601386428	-67.4998700000	0.0000076537	0.0000184776
224	MBC3A13	1766.7754843500	26.3325052677	101.5000737605	277.4970301399	-73.1248600000	0.0000058057	0.0000191388
225	D426	1769.2120143500	24.0008931597	101.5000740074	278.2043231618	-73.1248600000	0.0000058057	0.0000191388
226	MBC3A14	1770.2124143500	23.0308641763	101.5000740922	278.4473053820	-78.7498500000	0.0000039019	0.0000196157
227	D439	1773.9268943500	19.3877587651	101.5000743452	279.1719740190	-78.7498500000	0.0000039019	0.0000196157
228	IPM3A14	1773.9268943500	19.3877587651	101.5000743452	279.1719740190	-78.7498500000	0.0000039019	0.0000196157
229	MQA3A14	1774.2268943500	19.0935233342	101.5000743656	279.2305018859	-78.7498500000	0.0000039019	0.0000196157
230	D428	1774.6161343500	18.7117626705	101.5000743921	279.3064398423	-78.7498500000	0.0000039019	0.0000196157
231	MBC3A14V	1774.6161343600	18.7117626607	101.5000743921	279.3064398442	-78.7498500000	0.0000039019	0.0000196157
232	D434	1777.3590643600	16.0215386924	101.5000745789	279.8415659842	-78.7498500000	0.0000039019	0.0000196157
233	D403	1777.5837143600	15.8012053939	101.5000745942	279.8853936018	-78.7498500000	0.0000039019	0.0000196157
234	MQA3A15	1777.8837143600	15.5069699630	101.5000746147	279.9439214688	-78.7498500000	0.0000039019	0.0000196157
235	D404	1778.0768643600	15.3175313848	101.5000746278	279.9816036604	-78.7498500000	0.0000039019	0.0000196157
236	MBC3A15H	1778.0768643700	15.3175313750	101.5000746278	279.9816036624	-78.7498500000	0.0000039019	0.0000196157
237	D435	1781.0158843700	12.4349853213	101.5000748280	280.5549855671	-78.7498500000	0.0000039019	0.0000196157
238	IPM3A16	1781.0158843700	12.4349853213	101.5000748280	280.5549855671	-78.7498500000	0.0000039019	0.0000196157
239	D403	1781.2405343700	12.2146520228	101.5000748433	280.9588131847	-78.7498500000	0.0000039019	0.0000196157
240	MQA3A16	1781.5405343700	11.9204165919	101.5000748637	280.6573410516	-78.7498500000	0.0000039019	0.0000196157
241	D428	1781.9297743700	11.5386559281	101.5000748902	280.7332790080	-78.7498500000	0.0000039019	0.0000196157
242	MBC3A16V	1781.9297743800	11.5386559183	101.5000748902	280.7332790100	-78.7498500000	0.0000039019	0.0000196157
243	D436	1785.2550143800	8.2773111709	101.5000751166	281.3820096905	-78.7498500000	0.0000039019	0.0000196157
244	MBC3A15	1786.2554143800	7.2881367454	101.5000751679	281.5287425906	-84.3748400000	0.0000019604	0.0000199037
245	D426	1788.6919443800	4.8633399703	101.5000752512	281.7675710649	-84.3748400000	0.0000019604	0.0000199037
246	MBC3A16	1789.6923443800	3.8645463594	101.5000752684	281.8166451318	-89.9983000000	0.0000000001	0.0000200000
247	D427	1793.1821743800	0.3747163594	101.5000752684	281.8166518864	-89.9983000000	0.0000000001	0.0000200000
248	IPM3A17	1793.1821743800	0.3747163594	101.5000752684	281.8166518864	-89.9983000000	0.0000000001	0.0000200000
249	D403	1793.4068243800	0.1500663594	101.5000752684	281.8166525529	-89.9983000000	0.0000000001	0.0000200000
250	MQA3A17	1793.7068243800	-0.1499336406	101.5000752684	281.8166534430	-89.9983000000	0.0000000001	0.0000200000
251	D404	1793.8999743800	-0.3430836406	101.5000752684	281.8166540161	-89.9983000000	0.0000000001	0.0000200000
252	MBC3A17H	1793.8999743900	-0.3430836506	101.5000752684	281.8166540161	-89.9983000000	0.0000000001	0.0000200000
253	D437	1794.6015243900	-1.0446336506	101.5000752684	281.8166560976	-89.9983000000	0.0000000001	0.0000200000
254	ITV3A17	1794.6015243900	-1.0446336506	101.5000752684	281.8166560976	-89.9983000000	0.0000000001	0.0000200000
255	D425	1797.4213043900	-3.8644136506	101.5000752684	281.8166644641	-89.9983000000	0.0000000001	0.0000200000
256	MBC3A17	1798.4217043900	-4.8632075527	101.5000752512	281.7575999241	-95.6248200000	-0.0000019603	0.0000199037
257	D426	1800.8582343900	-7.2880057450	101.5000751679	281.5287858389	-95.6248200000	-0.0000019603	0.0000199037
258	MBC3A18	1801.8586343900	-8.2771810412	101.5000751167	281.3820588087	-101.2498100000	-0.0000039017	0.0000196157
259	D427	1805.3484643900	-11.6999571940	101.5000748790	280.7012381006	-101.2498100000	-0.0000039017	0.0000196157
260	IPM3A18	1805.3484643900	-11.6999571940	101.5000748790	280.7012381006	-101.2498100000	-0.0000039017	0.0000196157
261	D403	1805.5731143900	-11.9202907526	101.5000748637	280.6574117904	-101.2498100000	-0.0000039017	0.0000196157
262	MQA3A18	1805.8731143900	-12.2145265308	101.5000748433	280.9588566959	-101.2498100000	-0.0000039017	0.0000196157
263	D428	1806.2623543900	-12.5962876451	101.5000748168	280.5229499785	-101.2498100000	-0.0000039017	0.0000196157
264	MBC3A18V	1806.2623544000	-12.5962876549	101.5000748168	280.5229499766	-101.2498100000	-0.0000039017	0.0000196157
265	D429	1809.0052744000	-15.2865049908	101.5000746300	279.9878417516	-101.2498100000	-0.0000039017	0.0000196157
266	D403	1809.2299244000	-15.5068385493	101.5000746147	279.9440154414	-101.2498100000	-0.0000039017	0.0000196157
267	MQA3A19	1809.5299244000	-15.8010743275	101.5000745943	279.8854893205	-101.2498100000	-0.0000039017	0.0000196157
268	D404	1809.7230744000	-15.9905131294	101.5000745811	279.8478082531	-101.2498100000	-0.0000039017	0.0000196157
269	MBC3A19H	1809.7230744100	-15.9905131392	101.5000745811	279.8478082511	-101.2498100000	-0.0000039017	0.0000196157
270	D438	1812.8867444100	-19.0933961540	101.5000743657	279.2306171416	-101.2498100000	-0.0000039017	0.0000196157
271	IPM3A20	1812.8867444100	-19.0933961540	101.5000743657	279.2306171416	-101.2498100000	-0.0000039017	0.0000196157
272	MQA3A20	1813.1867444100	-19.3876319322	101.5000743452	279.1720910207	-101.2498100000	-0.0000039017	0.0000196157
273	D428	1813.5759844100	-19.7693930465	101.5000743187	279.0961553297	-101.2498100000	-0.0000039017	0.0000196157
274	MBC3A20V	1813.5759844200	-19.7693930563	101.5000743187	279.0961553278	-101.24		

297	D404	1841.3692844400	-44.8641803308	101.5000703558	267.7431440321	-123.7497700000	-0.0000111113	0.0000166294
298	MBC3A23H	1841.3692844500	-44.8641803391	101.5000703558	267.7431440266	-123.7497700000	-0.0000111113	0.0000166294
299	D435	1844.3083044500	-47.3078927137	101.5000697858	266.1103218100	-123.7497700000	-0.0000111113	0.0000166294
300	IPM3A24	1844.3083044500	-47.3078927137	101.5000697858	266.1103218100	-123.7497700000	-0.0000111113	0.0000166294
301	D403	1844.5329544500	-47.4946828631	101.5000697423	265.9855137070	-123.7497700000	-0.0000111113	0.0000166294
302	MQA3A24	1844.8329544500	-47.7441244159	101.5000696841	265.8188436384	-123.7497700000	-0.0000111113	0.0000166294
303	D428	1845.2221944500	-48.0677665158	101.5000696086	265.6025947801	-123.7497700000	-0.0000111113	0.0000166294
304	MBC3A24V	1845.2221944600	-48.0677665241	101.5000696086	265.6025947745	-123.7497700000	-0.0000111113	0.0000166294
305	D436	1848.5474344600	-50.8326099537	101.5000689637	263.7552015117	-123.7497700000	-0.0000111113	0.0000166294
306	MBC3A23	1849.5478344600	-51.6358185581	101.5000687558	263.1595065178	-129.3747600000	-0.0000126878	0.0000154603
307	D426	1851.9843644600	-53.5192881927	101.5000682162	261.9337961386	-129.3747600000	-0.0000126878	0.0000154603
308	MBC3A24	1852.9847644600	-54.2602409256	101.5000679818	260.9422414978	-134.9997500000	-0.0000141421	0.0000141422
309	D427	1856.4745944600	-56.7279341511	101.5000671204	258.4745698070	-134.9997500000	-0.0000141421	0.0000141422
310	IPM3A25	1856.4745944600	-56.7279341511	101.5000671204	258.4745698070	-134.9997500000	-0.0000141421	0.0000141422
311	D403	1856.6992444600	-56.8867863826	101.5000670650	258.3157189617	-134.9997500000	-0.0000141421	0.0000141422
312	MQA3A25	1856.9992444600	-57.0989193425	101.5000669990	258.1035878529	-134.9997500000	-0.0000141421	0.0000141422
313	D404	1857.1923944600	-57.2354976133	101.5000669433	257.9670107741	-134.9997500000	-0.0000141421	0.0000141422
314	MBC3A25H	1857.1923944700	-57.2354976203	101.5000669433	257.9670107670	-134.9997500000	-0.0000141421	0.0000141422
315	D437	1857.8939444700	-57.7315705472	101.5000667701	257.4709421692	-134.9997500000	-0.0000141421	0.0000141422
316	ITV3A25	1857.8939444700	-57.7315705472	101.5000667701	257.4709421692	-134.9997500000	-0.0000141421	0.0000141422
317	D425	1860.7137244700	-59.7254648066	101.5000660741	255.4770653097	-134.9997500000	-0.0000141421	0.0000141422
318	MBC3A25	1861.7141244700	-60.3970259134	101.5000658155	254.7361184373	-140.6247400000	-0.0000154602	0.0000126879
319	D426	1864.1506544700	-61.9427527289	101.5000651580	252.8526622916	-140.6247400000	-0.0000154602	0.0000126879
320	MBC3A26	1865.1510544700	-62.5384547320	101.5000648777	252.0494588856	-146.2497300000	-0.0000166293	0.0000111115
321	D427	1868.6408844700	-64.4773140722	101.5000638648	249.1477804252	-146.2497300000	-0.0000166293	0.0000111115
322	IPM3A26	1868.6408844700	-64.4773140722	101.5000638648	249.1477804252	-146.2497300000	-0.0000166293	0.0000111115
323	D403	1868.8655344700	-64.6021238053	101.5000637996	248.9609913649	-146.2497300000	-0.0000166293	0.0000111115
324	MQA3A26	1869.1655344700	-64.7687960506	101.5000637125	248.7115512666	-146.2497300000	-0.0000166293	0.0000111115
325	D428	1869.5547744700	-64.9850477332	101.5000635995	248.3879110538	-146.2497300000	-0.0000166293	0.0000111115
326	MBC3A26V	1869.5547744800	-64.9850477388	101.5000635995	248.3879110455	-146.2497300000	-0.0000166293	0.0000111115
327	D429	1872.2976444800	-66.5089431897	101.5000628034	246.1072635977	-146.2497300000	-0.0000166293	0.0000111115
328	D403	1872.5223444800	-66.6337529227	101.5000627382	245.9204745374	-146.2497300000	-0.0000166293	0.0000111115
329	MQA3A27	1872.8234444800	-66.8004251681	101.5000626512	245.6711034439	-146.2497300000	-0.0000166293	0.0000111115
330	D404	1873.0154944800	-66.9077343154	101.5000625951	245.5104365892	-146.2497300000	-0.0000166293	0.0000111115
331	MBC3A27H	1873.0154944900	-66.9077343210	101.5000625951	245.5104365809	-146.2497300000	-0.0000166293	0.0000111115
332	D438	1876.1791644900	-68.6653875960	101.5000616769	242.8799493953	-146.2497300000	-0.0000166293	0.0000111115
333	IPM3A28	1876.1791644900	-68.6653875960	101.5000616769	242.8799493953	-146.2497300000	-0.0000166293	0.0000111115
334	MQA3A28	1876.4791644900	-68.8320598413	101.5000615898	242.6305092970	-146.2497300000	-0.0000166293	0.0000111115
335	D428	1876.8684044900	-69.0483115240	101.5000614769	242.3068690842	-146.2497300000	-0.0000166293	0.0000111115
336	MBC3A28V	1876.8684045000	-69.0483115295	101.5000614769	242.3068690759	-146.2497300000	-0.0000166293	0.0000111115
337	D432	1880.1936345000	-70.8957233644	101.5000605117	239.5420500826	-146.2497300000	-0.0000166293	0.0000111115
338	MBC3A27	1881.1940345000	-71.4098293483	101.5000602123	238.6843254035	-151.8747200000	-0.0000176384	0.0000094280
339	D426	1883.6305645000	-72.5584121406	101.5000594623	236.5355033983	-151.8747200000	-0.0000176384	0.0000094280
340	MBC3A28	1884.6305645000	-72.9859710012	101.5000591467	235.6315177741	-157.4997100000	-0.0000184776	0.0000076538
341	D427	1888.1207945000	-74.3214874430	101.5000580213	232.4073420248	-157.4997100000	-0.0000184776	0.0000076538
342	IPM3A29	1888.1207945000	-74.3214874430	101.5000580213	232.4073420248	-157.4997100000	-0.0000184776	0.0000076538
343	D403	1888.3454445000	-74.4074583266	101.5000579488	232.1997929230	-157.4997100000	-0.0000184776	0.0000076538
344	MQA3A29	1888.6454445000	-74.5222647592	101.5000578521	231.9226296443	-157.4997100000	-0.0000184776	0.0000076538
345	D404	1888.8385945000	-74.5961809673	101.5000577898	231.7441826867	-157.4997100000	-0.0000184776	0.0000076538
346	MBC3A29H	1888.8385945100	-74.5961809711	101.5000577898	231.7441826775	-157.4997100000	-0.0000184776	0.0000076538
347	D433	1892.3599245100	-75.9437520884	101.5000566542	228.4909047839	-157.4997100000	-0.0000184776	0.0000076538
348	MBC3A29	1893.3603245100	-76.2806462148	101.5000563255	227.5493640596	-163.1247000000	-0.0000191388	0.0000058058
349	D426	1895.7968545100	-76.9879457477	101.5000555116	225.2177539267	-163.1247000000	-0.0000191388	0.0000058058
350	MBC3A30	1896.7972545100	-77.2309306768	101.5000551730	224.2477256219	-168.7496900000	-0.0000196157	0.0000039019
351	D439	1900.5117345100	-77.9556094872	101.5000539013	220.6046222344	-168.7496900000	-0.0000196157	0.0000039019
352	IPM3A30	1900.5117345100	-77.9556094872	101.5000539013	220.6046222344	-168.7496900000	-0.0000196157	0.0000039019
353	MQA3A30	1900.8117345100	-78.0141381758	101.5000537966	220.3103869669	-168.7496900000	-0.0000196157	0.0000039019
354	D428	1901.2009745100	-78.0900771983	101.5000536654	219.9286265152	-168.7496900000	-0.0000196157	0.0000039019
355	MBC3A30V	1901.2009745200	-78.0900772002	101.5000536654	219.9286265054	-168.7496900000	-0.0000196157	0.0000039019
356	D434	1903.9439045200	-78.6252108527	101.5000527263	217.2384040316	-168.7496900000	-0.0000196157	0.0000039019
357	D403	1904.1685545200	-78.6690390856	101.5000526494	217.0180708555	-168.7496900000	-0.0000196157	0.0000039019
358	MQA3A31	1904.4685545200	-78.7275677742	101.5000525467	216.7238355880	-168.7496900000	-0.0000196157	0.0000039019
359	D404	1904.6617045200	-78.7652504949	101.5000524806	216.5343971150	-168.7496900000	-0.0000196157	0.0000039019
360	MBC3A31H	1904.6617045300	-78.7652504968	101.5000524806	216.5343971052	-168.7496900000	-0.0000196157	0.0000039019
361	D435	1907.6007245300	-79.3386404511	101.5000514744	213.6518526527	-168.7496900000	-0.0000196157	0.0000039019
362	IPM3A32	1907.6007245300	-79.3386404511	101.5000514744	213.6518526527	-168.7496900000	-0.0000196157	0.0000039019
363	D403	1907.8253745300	-79.3824686841	101.5000513975	213.4315194765	-168.7496900000	-0.0000196157	0.0000039019
364	MQA3A32	1908.1253745300	-79.4409973726	101.5000512947	213.3172842091	-168.7496900000	-0.0000196157	0.0000039019
365	D440	1911.8398545300	-80.1656761831	101.5000500231	209.4941808216	-168.7496900000	-0.0000196157	0.0000039019
366	MBC3A31	1912.8402545300	-80.3124118455	101.5000496778	208.5050068059	-174.3746800000	-0.0000199037	0.0000019605
367	D426	1915.2767845300	-80.5512470910	101.5000488314	206.0802106977	-174.3746800000	-0.0000199037	0.0000019605
368	MBC3A32	1916.2771845300	-80.6003203471	101.5000484827	205.0814172238	-179.9996700000	-0.0000200000	0.0000000001
369	D427A	1919.7697645300	-80.6003404629	101.5000472636	201.5888372239	-179.9996700000	-0.0000200000	0.0000000001
370	IPM3R01	1919.7697645300	-80.6003404629	101.5000472636	201.5888372239	-179.9996700000	-0.0000200000	0.0000000001
371	D403	1919.9944145300	-80.6003417568	101.5000471852	201.3641872239	-179.9996700000	-0.0000200000	0.0000000001
372	MQA3R01	1920.2944145300	-80.6003434847	101.5000470804	200.0641872239	-179.9996700000	-0.0000200000	0.0000000001
373	D404	1920.4875645300	-80.6003445971	101.5000470130	200.8710372239	-179.9996700000	-0.0000200000	0.0000000001
374	MBC3R01H	1920.4875645300	-80.6003445971	101.5000470130	200.8710372139	-179.9996700000	-0.0000200000	0.0000000001
375	D437	1921.1891145400	-80.6003486378	101.5000467681	200.1694872139	-179.9996700000	-0.0000200000	0.0000000001
376	ITV3R01	1921.1891145400	-80.6003486378	101.5000467681	200.1694872139	-179.9996700000	-0.0000200000	0.0000000001
377	D441	1923.7697645400	-80.6003635013	101.5000458673	197.5888372139	-179.9996700000	-0.0000200000	0.0000000001
378	IPM3R02	192						

401	D444	1937.7697645900	-80.6004441355	101.5000409804	183.5888371642	-179.9996700000	-0.0000200000	0.0000000001
402	IPM3R06	1937.7697645900	-80.6004441355	101.5000409804	183.5888371642	-179.9996700000	-0.0000200000	0.0000000001
403	D403	1937.9944145900	-80.6004454294	101.5000409020	183.3641871642	-179.9996700000	-0.0000200000	0.0000000001
404	MQA3R06	1938.2944145900	-80.6004471572	101.5000407973	183.0641871642	-179.9996700000	-0.0000200000	0.0000000001
405	D404	1938.4875645900	-80.6004482697	101.5000407298	182.8710371642	-179.9996700000	-0.0000200000	0.0000000001
406	MBC3R06H	1938.4875646000	-80.6004482697	101.5000407298	182.8710371542	-179.9996700000	-0.0000200000	0.0000000001
407	D445	1939.9944146000	-80.6004569485	101.5000402038	181.3641871542	-179.9996700000	-0.0000200000	0.0000000001
408	MQA3R07	1940.2944146000	-80.6004586764	101.5000400991	181.0641871542	-179.9996700000	-0.0000200000	0.0000000001
409	D428	1940.6836546000	-80.6004609183	101.5000399633	180.6749471542	-179.9996700000	-0.0000200000	0.0000000001
410	MBC3R07V	1940.6836546100	-80.6004609183	101.5000399633	180.6749471442	-179.9996700000	-0.0000200000	0.0000000001
411	D446A	1942.2627746100	-80.6004700134	101.5000394120	179.0958271442	-179.9996700000	-0.0000200000	0.0000000001
412	MAA3R01	1943.2631446100	-80.6004757666	101.4532127557	178.0969199192	-179.9996700000	-5.3678600000	0.0000000001
413	D411	1947.7829946100	-80.6005016848	101.0303843213	173.5969211474	-179.9996700000	-5.3678600000	0.0000000001
414	MAA3R03	1948.7833346100	-80.6005074381	100.9835576650	172.5980139224	-179.9996700000	-0.0000200000	0.0000000001
415	D447	1949.1836816100	-80.6005097439	100.9835575252	172.1976669224	-179.9996700000	-0.0000200000	0.0000000001
416	IPM3R08	1949.1836816100	-80.6005097439	100.9835575252	172.1976669224	-179.9996700000	-0.0000200000	0.0000000001
417	D403	1949.4083316100	-80.6005110378	100.9835574468	171.9730169224	-179.9996700000	-0.0000200000	0.0000000001
418	MQA3R08	1949.7083316100	-80.6005127657	100.9835573421	171.6730169224	-179.9996700000	-0.0000200000	0.0000000001
419	D409	1950.2631816100	-80.6005159614	100.9835571484	171.1181669224	-179.9996700000	-0.0000200000	0.0000000001
420	MBC3R08H	1950.2631816200	-80.6005159614	100.9835571484	171.1181669124	-179.9996700000	-0.0000200000	0.0000000001
421	D408	1952.0190916300	-80.6005260747	100.9835565355	169.3622569124	-179.9996700000	-0.0000200000	0.0000000001
422	MBC3R09V	1952.0190916300	-80.6005260747	100.9835565355	169.3622569024	-179.9996700000	-0.0000200000	0.0000000001
423	D405	1952.2151816300	-80.6005272041	100.9835564670	169.1661669024	-179.9996700000	-0.0000200000	0.0000000001
424	MBC3R09H	1952.2151816400	-80.6005272041	100.9835564670	169.1661668924	-179.9996700000	-0.0000200000	0.0000000001
425	D404	1952.4083316400	-80.6005283166	100.9835563996	168.9730168924	-179.9996700000	-0.0000200000	0.0000000001
426	MQA3R09	1952.7083316400	-80.6005300444	100.9835562949	168.6730168924	-179.9996700000	-0.0000200000	0.0000000001
427	D403	1952.9329816400	-80.6005313383	100.9835562165	168.4483668924	-179.9996700000	-0.0000200000	0.0000000001
428	IPM3R09	1952.9329816400	-80.6005313383	100.9835562165	168.4483668924	-179.9996700000	-0.0000200000	0.0000000001
429	D448	1956.5190916400	-80.6005519928	100.9835549647	164.8622568925	-179.9996700000	-0.0000200000	0.0000000001
430	MBC3R10V	1956.5190916500	-80.6005519928	100.9835549647	164.8622568825	-179.9996700000	-0.0000200000	0.0000000001
431	D405	1956.7151816500	-80.6005531222	100.9835548962	164.6661668825	-179.9996700000	-0.0000200000	0.0000000001
432	MBC3R10H	1956.7151816600	-80.6005531222	100.9835548962	164.6661668725	-179.9996700000	-0.0000200000	0.0000000001
433	D404	1956.9083316600	-80.6005542347	100.9835548288	164.4730168725	-179.9996700000	-0.0000200000	0.0000000001
434	MQA3R10	1957.2083316600	-80.6005559626	100.9835547241	164.1730168725	-179.9996700000	-0.0000200000	0.0000000001
435	D403	1957.4329816600	-80.6005572565	100.9835546457	163.9483668725	-179.9996700000	-0.0000200000	0.0000000001
436	IPM3R10	1957.4329816600	-80.6005572565	100.9835546457	163.9483668725	-179.9996700000	-0.0000200000	0.0000000001
437	D449A	1957.7584416600	-80.6005591310	100.9835545321	163.6229068725	-179.9996700000	-0.0000200000	0.0000000001
438	MAV3R04	1959.7625116600	-80.6005705800	100.7631623298	161.6350871237	-179.9996700000	-12.6532200000	0.0000000001
439	D450A	1961.6902916600	-80.6005814136	100.3408828122	159.7541257373	-179.9996700000	-12.6532200000	0.0000000001
440	MAS3R05	1962.7049916600	-80.6005871731	100.1718052365	158.7541298812	-179.9996700000	-6.5402000000	0.0000000001
441	D451	1963.7115116600	-80.6005929327	100.0571588915	157.7541303222	-179.9996700000	-6.5402000000	0.0000000001
442	MAQ3R06	1964.7136816600	-80.6005986923	100.000231083	156.7541352457	-179.9996700000	0.0000000000	0.0000000001

1

STOP

Arc4.out

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LDIMAT VERSION 2.9 PROD
ODATE AND TIME OF THIS RUN:      12-JUN-2007      12:48:18

XSIF Parser Version 2.1
Version Date:      01-JAN-2004
Run: 12-JUN-2007 12:48:18
XSIF Parser developed by NLC Department,
Stanford Linear Accelerator Center.

UTRANSPORT

TITLE
CONVERTED FROM ../.../OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//ARC4.OPT

5
MAW4S01: SBEND, L=1.00155, ANGLE=5.52445, K1=-0.352281, &
E1=0, E2=5.52446, HGAP=0.01905, &
HGAPX=0.01905, &
FINT=0.5, TILT=90
10
D500: DRIFT, L=2.00933
MAX4S02: SBEND, L=1.00963, ANGLE=4.57194, K1=0.784039, &
E1=5.52446, E2=10.0964, HGAP=0.023749, &
HGAPX=0.0225029, &
FINT=0.5, TILT=90
15
D501: DRIFT, L=2.53933
MAV4S03: SBEND, L=2.00259, ANGLE=-10.0964, K1=-0.84334, &
E1=-5.04821, E2=-5.04821, HGAP=0.012954, &
HGAPX=0.012954, &
FINT=0.5, TILT=90
20
D502: DRIFT, L=0.38035
IPM4S01: MONITOR, L=0
D503: DRIFT, L=0.22465
MQA4S01: QUADRUPOLE, L=0.3, K1=-0.723868, TILT=0
D504: DRIFT, L=0.19315
25
MBC4S01H: GKICK, L=1E-08, DXP=0, DYP=0
D505: DRIFT, L=0.19609
MBC4S01V: GKICK, L=1E-08, DXP=0, DYP=0
D506: DRIFT, L=0.50546
ITV4S01: MONITOR, L=0
30
D507: DRIFT, L=3.08065
IPM4S02: MONITOR, L=0
MQA4S02: QUADRUPOLE, L=0.3, K1=1.16554, TILT=0
MBC4S02H: GKICK, L=1E-08, DXP=0, DYP=0
MBC4S02V: GKICK, L=1E-08, DXP=0, DYP=0
35
D508: DRIFT, L=1.33611
IPM4S03: MONITOR, L=0
MQA4S03: QUADRUPOLE, L=0.3, K1=-1.51273, TILT=0
MBC4S03H: GKICK, L=1E-08, DXP=0, DYP=0
MBC4S03V: GKICK, L=1E-08, DXP=0, DYP=0
40
D509: DRIFT, L=0.50576
MAF4S04: SBEND, L=1.00029, ANGLE=4.76568, K1=-0.94439, &
E1=2.38285, E2=2.38285, HGAP=0.012954, &

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HGAPX=0.012954, &
FINT=0.5, TILT=90
45 D510: DRIFT, L=5.01734
MAF4S06: SBEND, L=1.00029, ANGLE=-4.76568, K1=-1.41658, &
E1=-2.38285, E2=-2.38285, HGAP=0.012954, &
HGAPX=0.012954, &
FINT=0.5, TILT=90
50 D511: DRIFT, L=1.6982
MQA4S04: QUADRUPOLE, L=0.3, K1=-0.739148, TILT=0
D512: DRIFT, L=0.8947
ITV4S04: MONITOR, L=0
D513: DRIFT, L=0.18065
55 IPM4S05: MONITOR, L=0
MQA4S05: QUADRUPOLE, L=0.3, K1=1.26238, TILT=0
MBC4S05H: GKICK, L=1E-08, DXP=0, DYP=0
MBC4S05V: GKICK, L=1E-08, DXP=0, DYP=0
D514: DRIFT, L=0.91076
60 MQA4S06: QUADRUPOLE, L=0.3, K1=-0.652059, TILT=0
D515: DRIFT, L=4.27535
IPM4S07: MONITOR, L=0
MQA4S07: QUADRUPOLE, L=0.3, K1=0.00176808, TILT=0
MBC4S07H: GKICK, L=1E-08, DXP=0, DYP=0
65 MBC4S07V: GKICK, L=1E-08, DXP=0, DYP=0
D516: DRIFT, L=2.28611
IPM4S08: MONITOR, L=0
MQA4S08: QUADRUPOLE, L=0.3, K1=-0.166582, TILT=0
MBC4S08H: GKICK, L=1E-08, DXP=0, DYP=0
70 MBC4S08V: GKICK, L=1E-08, DXP=0, DYP=0
IPM4S09: MONITOR, L=0
MQA4S09: QUADRUPOLE, L=0.3, K1=0.0147884, TILT=0
MBC4S09H: GKICK, L=1E-08, DXP=0, DYP=0
MBC4S09V: GKICK, L=1E-08, DXP=0, DYP=0
75 IPM4S10: MONITOR, L=0
MQA4S10: QUADRUPOLE, L=0.3, K1=0.289679, TILT=0
MBC4S10H: GKICK, L=1E-08, DXP=0, DYP=0
MBC4S10V: GKICK, L=1E-08, DXP=0, DYP=0
MAT4S10H: GKICK, L=1E-08, DXP=0, DYP=0
80 D517: DRIFT, L=15.1307
IPM4E01: MONITOR, L=0
D518: DRIFT, L=0.29965
MQB4E01: QUADRUPOLE, L=0.15, K1=-0.460878, TILT=0
D519: DRIFT, L=0.26815
85 MBM4E01H: GKICK, L=1E-08, DXP=0, DYP=0
MBM4E01V: GKICK, L=1E-08, DXP=0, DYP=0
IHA4E01: MONITOR, L=0
D520: DRIFT, L=0.4803
MBW4E01: SBEND, L=0.500137, ANGLE=-2.32225, K1=-0, &
90 E1=-0, E2=-2.32225, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
D521: DRIFT, L=5.75473
95 MBX4E02: SBEND, L=1.00027, ANGLE=4.64449, K1=-0, &
E1=2.32225, E2=2.32225, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
MBW4E03: SBEND, L=0.500137, ANGLE=-2.32225, K1=-0, &
100 E1=-2.32225, E2=-0, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
D522: DRIFT, L=1.15034
IPM4E02: MONITOR, L=0
MQB4E02: QUADRUPOLE, L=0.15, K1=0.589511, TILT=0
105 MBM4E02H: GKICK, L=1E-08, DXP=0, DYP=0
MBM4E02V: GKICK, L=1E-08, DXP=0, DYP=0
ITV4E02: MONITOR, L=0
IPM4E03: MONITOR, L=0
MQB4E03: QUADRUPOLE, L=0.15, K1=-0.664346, TILT=0
110 MBM4E03H: GKICK, L=1E-08, DXP=0, DYP=0
MBM4E03V: GKICK, L=1E-08, DXP=0, DYP=0
D523: DRIFT, L=15.6361
IPM4A01: MONITOR, L=0
MQA4A01: QUADRUPOLE, L=0.3, K1=0.393428, TILT=0
115 MBC4A01H: GKICK, L=1E-08, DXP=0, DYP=0
MBC4A01V: GKICK, L=1E-08, DXP=0, DYP=0
ITV4A01: MONITOR, L=0
D524: DRIFT, L=1.99537
MBB4A01: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
120 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
D525: DRIFT, L=1.74975
MBB4A02: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
125 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
D526: DRIFT, L=2.66542
IPM4A02: MONITOR, L=0
MQA4A02: QUADRUPOLE, L=0.3, K1=-0.56971, TILT=0
130 D527: DRIFT, L=0.38924
MBC4A02V: GKICK, L=1E-08, DXP=0, DYP=0
D528: DRIFT, L=3.07141
IPM4A03: MONITOR, L=0
MQA4A03: QUADRUPOLE, L=0.3, K1=0.994996, TILT=0
135 MBC4A03H: GKICK, L=1E-08, DXP=0, DYP=0
D529: DRIFT, L=0.41809
IHA4A03: MONITOR, L=0
D530: DRIFT, L=2.8494
IPM4A04: MONITOR, L=0
MQA4A04: QUADRUPOLE, L=0.3, K1=-0.56971, TILT=0
140 MBC4A04V: GKICK, L=1E-08, DXP=0, DYP=0
D531: DRIFT, L=2.50082
MBB4A03: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
145 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &

FINT=0.5, TILT=0
150 MBB4A04: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM4A05: MONITOR, L=0
MQA4A05: QUADRUPOLE, L=0.3, K1=0.547543, TILT=0
MBC4A05H: GKICK, L=1E-08, DXP=0, DYP=0
155 D532: DRIFT, L=2.69692
MBB4A05: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
160 MBB4A06: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM4A06: MONITOR, L=0
MQA4A06: QUADRUPOLE, L=0.3, K1=-0.56971, TILT=0
165 MBC4A06V: GKICK, L=1E-08, DXP=0, DYP=0
IPM4A07: MONITOR, L=0
MQA4A07: QUADRUPOLE, L=0.3, K1=0.994996, TILT=0
MBC4A07H: GKICK, L=1E-08, DXP=0, DYP=0
170 D533: DRIFT, L=3.2675
IPM4A08: MONITOR, L=0
MQA4A08: QUADRUPOLE, L=0.3, K1=-0.56971, TILT=0
MBC4A08V: GKICK, L=1E-08, DXP=0, DYP=0
D534: DRIFT, L=2.50083
175 MBB4A07: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
180 MBB4A08: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM4A09: MONITOR, L=0
MQA4A09: QUADRUPOLE, L=0.3, K1=0.547543, TILT=0
185 MBC4A09H: GKICK, L=1E-08, DXP=0, DYP=0
D535: DRIFT, L=0.70155
ITV4A09: MONITOR, L=0
190 MBB4A09: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
195 MBB4A10: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM4A10: MONITOR, L=0
MQA4A10: QUADRUPOLE, L=0.3, K1=-0.56971, TILT=0
MBC4A10V: GKICK, L=1E-08, DXP=0, DYP=0
200 MQA4A11: QUADRUPOLE, L=0.3, K1=0.994996, TILT=0
MBC4A11H: GKICK, L=1E-08, DXP=0, DYP=0
D536: DRIFT, L=3.49214
IPM4A12: MONITOR, L=0
MQA4A12: QUADRUPOLE, L=0.3, K1=-0.56971, TILT=0
MBC4A12V: GKICK, L=1E-08, DXP=0, DYP=0
205 MBB4A11: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
210 MBB4A12: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM4A13: MONITOR, L=0
MQA4A13: QUADRUPOLE, L=0.3, K1=0.547543, TILT=0
215 MBC4A13H: GKICK, L=1E-08, DXP=0, DYP=0
MBB4A13: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
220 MBB4A14: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
D538: DRIFT, L=2.89007
IPM4A14: MONITOR, L=0
MQA4A14: QUADRUPOLE, L=0.3, K1=-0.56971, TILT=0
MBC4A14V: GKICK, L=1E-08, DXP=0, DYP=0
MQA4A15: QUADRUPOLE, L=0.3, K1=0.994996, TILT=0
MBC4A15H: GKICK, L=1E-08, DXP=0, DYP=0
230 IPM4A16: MONITOR, L=0
MQA4A16: QUADRUPOLE, L=0.3, K1=-0.56971, TILT=0
MBC4A16V: GKICK, L=1E-08, DXP=0, DYP=0
MBB4A15: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
235 MBB4A16: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
240 IPM4A17: MONITOR, L=0
MQA4A17: QUADRUPOLE, L=0.3, K1=0.547543, TILT=0
MBC4A17H: GKICK, L=1E-08, DXP=0, DYP=0
ITV4A17: MONITOR, L=0
245 MBB4A17: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
MBB4A18: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
250 E1=2.8125, E2=2.8125, HGAP=0.0126554, &

HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM4A18: MONITOR, L=0
MQA4A18: QUADRUPOLE, L=0.3, K1=-0.56971, TILT=0
255 MBC4A18V: GKICK, L=1E-08, DXP=0, DYP=0
MQA4A19: QUADRUPOLE, L=0.3, K1=0.994996, TILT=0
MBC4A19H: GKICK, L=1E-08, DXP=0, DYP=0
IPM4A20: MONITOR, L=0
MQA4A20: QUADRUPOLE, L=0.3, K1=-0.56971, TILT=0
260 MBC4A20V: GKICK, L=1E-08, DXP=0, DYP=0
MBB4A19: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
265 MBB4A20: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM4A21: MONITOR, L=0
270 MQA4A21: QUADRUPOLE, L=0.3, K1=0.547543, TILT=0
MBC4A21H: GKICK, L=1E-08, DXP=0, DYP=0
MBB4A21: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
275 FINT=0.5, TILT=0
MBB4A22: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
280 IPM4A22: MONITOR, L=0
MQA4A22: QUADRUPOLE, L=0.3, K1=-0.56971, TILT=0
MBC4A22V: GKICK, L=1E-08, DXP=0, DYP=0
MQA4A23: QUADRUPOLE, L=0.3, K1=0.994996, TILT=0
285 MBC4A23H: GKICK, L=1E-08, DXP=0, DYP=0
IPM4A24: MONITOR, L=0
MQA4A24: QUADRUPOLE, L=0.3, K1=-0.56971, TILT=0
MBC4A24V: GKICK, L=1E-08, DXP=0, DYP=0
290 MBB4A23: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
MBB4A24: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
295 FINT=0.5, TILT=0
IPM4A25: MONITOR, L=0
MQA4A25: QUADRUPOLE, L=0.3, K1=0.547543, TILT=0
MBC4A25H: GKICK, L=1E-08, DXP=0, DYP=0
300 ITV4A25: MONITOR, L=0
MBB4A25: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
305 MBB4A26: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM4A26: MONITOR, L=0
310 MQA4A26: QUADRUPOLE, L=0.3, K1=-0.56971, TILT=0
MBC4A26V: GKICK, L=1E-08, DXP=0, DYP=0
MQA4A27: QUADRUPOLE, L=0.3, K1=0.994996, TILT=0
MBC4A27H: GKICK, L=1E-08, DXP=0, DYP=0
IPM4A28: MONITOR, L=0
315 MQA4A28: QUADRUPOLE, L=0.3, K1=-0.56971, TILT=0
MBC4A28V: GKICK, L=1E-08, DXP=0, DYP=0
MBB4A27: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
320 MBB4A28: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM4A29: MONITOR, L=0
325 MQA4A29: QUADRUPOLE, L=0.3, K1=0.547543, TILT=0
MBC4A29H: GKICK, L=1E-08, DXP=0, DYP=0
MBB4A29: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
330 FINT=0.5, TILT=0
MBB4A30: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
335 IPM4A30: MONITOR, L=0
MQA4A30: QUADRUPOLE, L=0.3, K1=-0.56971, TILT=0
MBC4A30V: GKICK, L=1E-08, DXP=0, DYP=0
MQA4A31: QUADRUPOLE, L=0.3, K1=0.994996, TILT=0
MBC4A31H: GKICK, L=1E-08, DXP=0, DYP=0
340 IPM4A32: MONITOR, L=0
MQA4A32: QUADRUPOLE, L=0.3, K1=-0.56971, TILT=0
D537: DRIFT, L=2.89007
MBB4A31: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
345 HGAPX=0.0126554, &
FINT=0.5, TILT=0
MBB4A32: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.557542, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
350 FINT=0.5, TILT=0
IPM4R01: MONITOR, L=0
MQA4R01: QUADRUPOLE, L=0.3, K1=0.731406, TILT=0
MBC4R01H: GKICK, L=1E-08, DXP=0, DYP=0
ITV4R01: MONITOR, L=0

355 D539: DRIFT, L=1.78065
IPM4R02: MONITOR, L=0
MQA4R02: QUADRUPOLE, L=0.3, K1=-1.45263, TILT=0
MBC4R02H: GKICK, L=1E-08, DXP=0, DYP=0
MBC4R02V: GKICK, L=1E-08, DXP=0, DYP=0

360 IPM4R03: MONITOR, L=0
MQA4R03: QUADRUPOLE, L=0.3, K1=1.92738, TILT=0
MBC4R03H: GKICK, L=1E-08, DXP=0, DYP=0
D540: DRIFT, L=2.4822
IPM4R04: MONITOR, L=0

365 MQA4R04: QUADRUPOLE, L=0.3, K1=-1.85231, TILT=0
MBC4R04H: GKICK, L=1E-08, DXP=0, DYP=0
MBC4R04V: GKICK, L=1E-08, DXP=0, DYP=0
D541: DRIFT, L=2.51076
MQA4R05: QUADRUPOLE, L=0.3, K1=0.174063, TILT=0

370 ITV4R05: MONITOR, L=0
IPM4R06: MONITOR, L=0
MQA4R06: QUADRUPOLE, L=0.3, K1=1.54656, TILT=0
MBC4R06H: GKICK, L=1E-08, DXP=0, DYP=0
D542: DRIFT, L=1.10685

375 MQA4R07: QUADRUPOLE, L=0.3, K1=-1.45827, TILT=0
MBC4R07V: GKICK, L=1E-08, DXP=0, DYP=0
D543: DRIFT, L=0.40896
MAF4R01: SBEND, L=1.00029, ANGLE=-4.76568, K1=-1.41658, &
E1=-2.38285, E2=-2.38285, HGAP=0.012954, &
HGAPX=0.012954, &
FINT=0.5, TILT=90

380 D544: DRIFT, L=5.01735
MAF4R03: SBEND, L=1.00029, ANGLE=4.76568, K1=-0.94439, &
E1=2.38285, E2=2.38285, HGAP=0.012954, &
HGAPX=0.012954, &
FINT=0.5, TILT=90

385 D545: DRIFT, L=0.372982
IPM4R08: MONITOR, L=0
MQA4R08: QUADRUPOLE, L=0.3, K1=-1.51055, TILT=0

390 MBC4R08H: GKICK, L=1E-08, DXP=0, DYP=0
MBC4R08V: GKICK, L=1E-08, DXP=0, DYP=0
IPM4R09: MONITOR, L=0
MQA4R09: QUADRUPOLE, L=0.3, K1=1.07651, TILT=0
MBC4R09H: GKICK, L=1E-08, DXP=0, DYP=0

395 D546: DRIFT, L=3.7822
IPM4R10: MONITOR, L=0
MQA4R10: QUADRUPOLE, L=0.3, K1=-0.724301, TILT=0
MBC4R10H: GKICK, L=1E-08, DXP=0, DYP=0
MBC4R10V: GKICK, L=1E-08, DXP=0, DYP=0

400 D547: DRIFT, L=0.51311
MAV4R04: SBEND, L=2.00259, ANGLE=-10.0964, K1=-0.84334, &
E1=-5.04821, E2=-5.04821, HGAP=0.012954, &
HGAPX=0.012954, &
FINT=0.5, TILT=90

405 D548: DRIFT, L=2.53933
MAX4R05: SBEND, L=1.00963, ANGLE=4.57194, K1=0.784039, &
E1=10.0964, E2=5.52446, HGAP=0.023749, &
HGAPX=0.023749, &
FINT=0.5, TILT=90

410 D549: DRIFT, L=2.00933
MAW4R06: SBEND, L=1.00155, ANGLE=5.52445, K1=-0.352281, &
E1=5.52446, E2=0, HGAP=0.01905, &
HGAPX=0.01905, &
FINT=0.5, TILT=90

415 ARC4: LINE=(MAW4S01, &
D500, MAX4S02, D501, MAV4S03, D502, &
IPM4S01, D503, MQA4S01, D504, MBC4S01H, &
D505, MBC4S01V, D506, ITV4S01, D507, &
420 IPM4S02, D503, MQA4S02, D504, MBC4S02H, &
D505, MBC4S02V, D508, IPM4S03, D503, &
MQA4S03, D504, MBC4S03H, D505, MBC4S03V, &
D509, MAF4S04, D510, MAF4S06, D511, &
MQA4S04, D512, ITV4S04, D513, IPM4S05, &
425 D503, MQA4S05, D504, MBC4S05H, D505, &
MBC4S05V, D514, MQA4S06, D515, IPM4S07, &
D503, MQA4S07, D504, MBC4S07H, D505, &
MBC4S07V, D516, IPM4S08, D503, MQA4S08, &
D504, MBC4S08H, D505, MBC4S08V, D516, &
430 IPM4S09, D503, MQA4S09, D504, MBC4S09H, &
D505, MBC4S09V, D516, IPM4S10, D503, &
MQA4S10, D504, MBC4S10H, D505, MBC4S10V, &
D506, MAT4S10H, D517, IPM4E01, D518, &
MQB4E01, D519, MBM4E01H, D505, MBM4E01V, &
435 D506, IHA4E01, D520, MBW4E01, D521, &
MBX4E02, D521, MBW4E03, D522, IPM4E02, &
D518, MQB4E02, D519, MBM4E02H, D505, &
MBM4E02V, D506, ITV4E02, D517, IPM4E03, &
D518, MQB4E03, D519, MBM4E03H, D505, &
440 MBM4E03V, D523, IPM4A01, D503, MQA4A01, &
D504, MBC4A01H, D505, MBC4A01V, D506, &
ITV4A01, D524, MBB4A01, D525, MBB4A02, &
D526, IPM4A02, D503, MQA4A02, D527, &
MBC4A02V, D528, IPM4A03, D503, MQA4A03, &
445 D504, MBC4A03H, D529, IHA4A03, D530, &
IPM4A04, D503, MQA4A04, D527, MBC4A04V, &
D531, MBB4A03, D525, MBB4A04, D526, &
IPM4A05, D503, MQA4A05, D504, MBC4A05H, &
D532, MBB4A05, D525, MBB4A06, D526, &
450 IPM4A06, D503, MQA4A06, D527, MBC4A06V, &
D528, IPM4A07, D503, MQA4A07, D504, &
MBC4A07H, D533, IPM4A08, D503, MQA4A08, &
D527, MBC4A08V, D534, MBB4A07, D525, &
MBB4A08, D526, IPM4A09, D503, MQA4A09, &
455 D504, MBC4A09H, D535, ITV4A09, D524, &
MBB4A09, D525, MBB4A10, D526, IPM4A10, &
D503, MQA4A10, D527, MBC4A10V, D528, &
D503, MQA4A11, D504, MBC4A11H, D536, &

460 IPM4A12, MQA4A12, D527, MBC4A12V, D531, &
 MBB4A11, D525, MBB4A12, D526, IPM4A13, &
 D503, MQA4A13, D504, MBC4A13H, D535, &
 D524, MBB4A13, D525, MBB4A14, D538, &
 IPM4A14, MQA4A14, D527, MBC4A14V, D528, &
 D503, MQA4A15, D504, MBC4A15H, D533, &
 465 IPM4A16, D503, MQA4A16, D527, MBC4A16V, &
 D534, MBB4A15, D525, MBB4A16, D526, &
 IPM4A17, D503, MQA4A17, D504, MBC4A17H, &
 D535, ITV4A17, D524, MBB4A17, D525, &
 MBB4A18, D526, IPM4A18, D503, MQA4A18, &
 470 D527, MBC4A18V, D528, D503, MQA4A19, &
 D504, MBC4A19H, D536, IPM4A20, MQA4A20, &
 D527, MBC4A20V, D531, MBB4A19, D525, &
 MBB4A20, D526, IPM4A21, D503, MQA4A21, &
 D504, MBC4A21H, D535, D524, MBB4A21, &
 475 D525, MBB4A22, D538, IPM4A22, MQA4A22, &
 D527, MBC4A22V, D528, D503, MQA4A23, &
 D504, MBC4A23H, D533, IPM4A24, D503, &
 MQA4A24, D527, MBC4A24V, D534, MBB4A23, &
 D525, MBB4A24, D526, IPM4A25, D503, &
 480 MQA4A25, D504, MBC4A25H, D535, ITV4A25, &
 D524, MBB4A25, D525, MBB4A26, D526, &
 IPM4A26, D503, MQA4A26, D527, MBC4A26V, &
 D528, D503, MQA4A27, D504, MBC4A27H, &
 D536, IPM4A28, MQA4A28, D527, MBC4A28V, &
 485 D531, MBB4A27, D525, MBB4A28, D526, &
 IPM4A29, D503, MQA4A29, D504, MBC4A29H, &
 D532, MBB4A29, D525, MBB4A30, D538, &
 IPM4A30, MQA4A30, D527, MBC4A30V, D528, &
 D503, MQA4A31, D504, MBC4A31H, D533, &
 490 IPM4A32, D503, MQA4A32, D537, MBB4A31, &
 D525, MBB4A32, D526, IPM4R01, D503, &
 MQA4R01, D504, MBC4R01H, D535, ITV4R01, &
 D539, IPM4R02, D503, MQA4R02, D504, &
 MBC4R02H, D505, MBC4R02V, D516, IPM4R03, &
 495 D503, MQA4R03, D504, MBC4R03H, D540, &
 IPM4R04, D503, MQA4R04, D504, MBC4R04H, &
 D505, MBC4R04V, D541, MQA4R05, D512, &
 ITV4R05, D513, IPM4R06, D503, MQA4R06, &
 D504, MBC4R06H, D542, MQA4R07, D527, &
 500 MBC4R07V, D543, MAF4R01, D544, MAF4R03, &
 D545, IPM4R08, D503, MQA4R08, D504, &
 MBC4R08H, D505, MBC4R08V, D508, IPM4R09, &
 D503, MQA4R09, D504, MBC4R09H, D546, &
 IPM4R10, D503, MQA4R10, D504, MBC4R10H, &
 505 D505, MBC4R10V, D547, MAV4R04, D548, &
 MAX4R05, D549, MAW4R06)
 USE, ARC4
 DIMAT

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 * DIMAD PROGRAM : LAST MODIFIED ON May 27, 2005 *

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CONVERTED FROM ../../OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//ARC4.OPT

TOTAL LENGTH OF MACHINE IS: 403.936 METERS
 IN THIS RUN THERE ARE :
 274 DISTINCT ELEMENTS. ALLOCATED MXELMD : 275
 449 ELEMENTS IN MACHINE. ALLOCATED MXPOS_D : 451
 100 MATRICES DEFINED. ALLOCATED MAXMAT : 101
 1940 VALUES IN ELDAT. ALLOCATED MAXDAT : 1940
 0 LCAVS. ALLOCATED MX_LCAV : 1

1

OPERATION LIST ,
 MACHINE

1 2 1 0 1 1 1
 25.0611 1.37479 0 0
 15.5464 -0.798779 0 0
 0,

ELEMENT	#	BETAX	ALPHAX	BETAY	ALPHAY	ETAX	ETAPX	ETAY	ETAPY	NUX	NUY	ACC.LEN
\$\$INITIAL\$\$	0	25.0611	1.3748	15.5464	-0.7988	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.000
MAW4S01	1	22.5076	1.3875	17.0437	-0.8486	0.0000	0.0000	0.0482	0.0967	0.00672	0.00978	1.002
D500	2	17.4566	1.1263	20.8614	-1.0514	0.0000	0.0000	0.2425	0.0967	0.02288	0.02677	3.011
MAX4S02	3	14.9899	1.3960	23.3960	-1.6277	0.0000	0.0000	0.3820	0.1833	0.03281	0.03404	4.021
D501	4	9.1897	0.8936	32.6681	-2.0237	0.0000	0.0000	0.8474	0.1833	0.06752	0.04868	6.560

MAV4S03	5	6.3528	0.5136	40.3572	-1.8021	0.0000	0.0000	1.0243	-0.0061	0.10991	0.05738	8.562
D502	6	5.9908	0.4380	41.7432	-1.8421	0.0000	0.0000	1.0220	-0.0061	0.11973	0.05886	8.943
IPM4S01	7	5.9908	0.4380	41.7432	-1.8421	0.0000	0.0000	1.0220	-0.0061	0.11973	0.05886	8.943
D503	8	5.8041	0.3933	42.5762	-1.8657	0.0000	0.0000	1.0206	-0.0061	0.12580	0.05971	9.167
MQA4S01	9	5.9625	-0.9326	40.9429	7.1914	0.0000	0.0000	0.9857	-0.2251	0.13401	0.06084	9.467
D504	10	6.3344	-0.9931	38.2129	6.9427	0.0000	0.0000	0.9422	-0.2251	0.13901	0.06161	9.661
MBC4S01H	11	6.3344	-0.9931	38.2129	6.9427	0.0000	0.0000	0.9422	-0.2251	0.13901	0.06161	9.661
D505	12	6.7359	-1.0546	35.5396	6.6902	0.0000	0.0000	0.8981	-0.2251	0.14379	0.06246	9.857
MBC4S01V	13	6.7359	-1.0546	35.5396	6.6902	0.0000	0.0000	0.8981	-0.2251	0.14379	0.06246	9.857
D506	14	7.8822	-1.2131	29.1052	6.0394	0.0000	0.0000	0.7843	-0.2251	0.15484	0.06496	10.362
ITV4S01	15	7.8822	-1.2131	29.1052	6.0394	0.0000	0.0000	0.7843	-0.2251	0.15484	0.06496	10.362
D507	16	18.3324	-2.1791	4.1139	2.0729	0.0000	0.0000	0.0907	-0.2251	0.19608	0.11038	13.443
IPM4S02	17	18.3324	-2.1791	4.1139	2.0729	0.0000	0.0000	0.0907	-0.2251	0.19608	0.11038	13.443
D503	18	19.3273	-2.2495	3.2476	1.7837	0.0000	0.0000	0.0401	-0.2251	0.19798	0.12017	13.667
MQA4S02	19	18.6543	4.4137	2.5737	0.5406	0.0000	0.0000	-0.0265	-0.2228	0.20046	0.13701	13.967
D504	20	16.9903	4.2017	2.3836	0.4437	0.0000	0.0000	-0.0696	-0.2228	0.20218	0.14943	14.161
MBC4S02H	21	16.9903	4.2017	2.3836	0.4437	0.0000	0.0000	-0.0696	-0.2228	0.20218	0.14943	14.161
D505	22	15.3847	3.9864	2.2289	0.3452	0.0000	0.0000	-0.1132	-0.2228	0.20411	0.16299	14.357
MBC4S02V	23	15.3847	3.9864	2.2289	0.3452	0.0000	0.0000	-0.1132	-0.2228	0.20411	0.16299	14.357
D508	24	6.6922	2.5194	2.2028	-0.3257	0.0000	0.0000	-0.4109	-0.2228	0.22513	0.26600	15.693
IPM4S03	25	6.6922	2.5194	2.2028	-0.3257	0.0000	0.0000	-0.4109	-0.2228	0.22513	0.26600	15.693
D503	26	5.6156	2.2728	2.3745	-0.4385	0.0000	0.0000	-0.4610	-0.2228	0.23096	0.28166	15.917
MQA4S03	27	5.0280	-0.2260	2.3487	0.5207	0.0000	0.0000	-0.4953	-0.0033	0.24016	0.30147	16.217
D504	28	5.1232	-0.2664	2.1677	0.4161	0.0000	0.0000	-0.4959	-0.0033	0.24622	0.31511	16.411
MBC4S03H	29	5.1232	-0.2664	2.1677	0.4161	0.0000	0.0000	-0.4959	-0.0033	0.24622	0.31511	16.411
D505	30	5.2357	-0.3074	2.0253	0.3100	0.0000	0.0000	-0.4966	-0.0033	0.25225	0.33003	16.607
MBC4S03V	31	5.2357	-0.3074	2.0253	0.3100	0.0000	0.0000	-0.4966	-0.0033	0.25225	0.33003	16.607
D509	32	5.6001	-0.4131	1.8502	0.0363	0.0000	0.0000	-0.4983	-0.0033	0.26713	0.37210	17.112
MAF4S04	33	6.6358	-0.6211	2.3050	-0.4905	0.0000	0.0000	-0.4584	0.0831	0.29340	0.45238	18.113
D510	34	18.1251	-1.6688	20.7762	-3.1910	0.0000	0.0000	-0.0415	0.0831	0.36902	0.58147	23.130
MAF4S06	35	21.7393	-1.9440	27.4436	-3.4604	0.0000	0.0000	0.0000	0.0000	0.37706	0.58812	24.130
D511	36	28.9758	-2.3173	40.5600	-4.2633	0.0000	0.0000	0.0000	0.0000	0.38784	0.59622	25.829
MQA4S04	37	32.4196	-9.4154	40.4087	4.7562	0.0000	0.0000	0.0000	0.0000	0.38941	0.59739	26.129
D512	38	51.4811	-11.8895	32.3659	4.2332	0.0000	0.0000	0.0000	0.0000	0.39290	0.60133	27.023
ITV4S04	39	51.4811	-11.8895	32.3659	4.2332	0.0000	0.0000	0.0000	0.0000	0.39290	0.60133	27.023
D513	40	55.8670	-12.3891	30.8555	4.1276	0.0000	0.0000	0.0000	0.0000	0.39343	0.60224	27.204
IPM4S05	41	55.8670	-12.3891	30.8555	4.1276	0.0000	0.0000	0.0000	0.0000	0.39343	0.60224	27.204
D503	42	61.5730	-13.0103	29.0305	3.9963	0.0000	0.0000	0.0000	0.0000	0.39404	0.60343	27.429
MQA4S05	43	62.3061	10.6596	29.9267	-7.0958	0.0000	0.0000	0.0000	0.0000	0.39480	0.60508	27.729
D504	44	58.2570	10.3043	32.7318	-7.4272	0.0000	0.0000	0.0000	0.0000	0.39531	0.60606	27.922
MBC4S05H	45	58.2570	10.3043	32.7318	-7.4272	0.0000	0.0000	0.0000	0.0000	0.39531	0.60606	27.922
D505	46	54.2866	9.9435	35.7106	-7.7637	0.0000	0.0000	0.0000	0.0000	0.39586	0.60698	28.118
MBC4S05V	47	54.2866	9.9435	35.7106	-7.7637	0.0000	0.0000	0.0000	0.0000	0.39586	0.60698	28.118
D514	48	37.7003	8.2679	51.2756	-9.3265	0.0000	0.0000	0.0000	0.0000	0.39907	0.61036	29.029
MQA4S06	49	34.9681	1.0169	53.8559	0.8947	0.0000	0.0000	0.0000	0.0000	0.40040	0.61126	29.329
D515	50	27.3359	0.7682	46.8170	0.7517	0.0000	0.0000	0.0000	0.0000	0.42248	0.62483	33.604
IPM4S07	51	27.3359	0.7682	46.8170	0.7517	0.0000	0.0000	0.0000	0.0000	0.42248	0.62483	33.604
D503	52	26.9937	0.7552	46.4809	0.7442	0.0000	0.0000	0.0000	0.0000	0.42379	0.62560	33.829
MQA4S07	53	26.5416	0.7518	46.0447	0.7098	0.0000	0.0000	-0.0001	0.0000	0.42558	0.62663	34.129
D504	54	26.2534	0.7404	45.7718	0.7035	0.0000	0.0000	-0.0001	0.0000	0.42674	0.62730	34.322
MBC4S07H	55	26.2534	0.7404	45.7718	0.7035	0.0000	0.0000	-0.0001	0.0000	0.42674	0.62730	34.322
D505	56	25.9653	0.7288	45.4971	0.6971	0.0000	0.0000	-0.0001	0.0000	0.42794	0.62798	34.518
MBC4S07V	57	25.9653	0.7288	45.4971	0.6971	0.0000	0.0000	-0.0001	0.0000	0.42794	0.62798	34.518
D516	58	22.9411	0.5940	42.4807	0.6224	0.0000	0.0000	-0.0001	0.0000	0.44287	0.63626	36.804
IPM4S08	59	22.9411	0.5940	42.4807	0.6224	0.0000	0.0000	-0.0001	0.0000	0.44287	0.63626	36.804
D503	60	22.6772	0.5808	42.2027	0.6151	0.0000	0.0000	-0.0001	0.0000	0.44443	0.63711	37.029
MQA4S08	61	22.6722	-0.5642	41.2107	2.6751	0.0000	0.0000	-0.0001	0.0000	0.44654	0.63825	37.329
D504	62	22.8924	-0.5755	40.1847	2.6368	0.0000	0.0000	-0.0001	0.0000	0.44789	0.63901	37.522
MBC4S08H	63	22.8924	-0.5755	40.1847	2.6368	0.0000	0.0000	-0.0001	0.0000	0.44789	0.63901	37.522
D505	64	23.1203	-0.5869	39.1582	2.5980	0.0000	0.0000	-0.0001	0.0000	0.44925	0.63979	37.718
MBC4S08V	65	23.1203	-0.5869	39.1582	2.5980	0.0000	0.0000	-0.0001	0.0000	0.44925	0.63979	37.718
D516	66	26.1075	-0.7198	28.3138	2.1456	0.0000	0.0000	-0.0001	0.0000	0.46408	0.65073	40.004
IPM4S09	67	26.1075	-0.7198	28.3138	2.1456	0.0000	0.0000	-0.0001	0.0000	0.46408	0.65073	40.004
D503	68	26.4338	-0.7329	27.3598	2.1011	0.0000	0.0000	-0.0001	0.0000	0.46544	0.65201	40.229
MQA4S09	69	26.8432	-0.6312	26.1522	1.9258	0.0000	0.0000	-0.0001	0.0000	0.46723	0.65380	40.529
D504	70	27.0890	-0.6412	25.4150	1.8910	0.0000	0.0000	-0.0001	0.0000	0.46837	0.65499	40.722
MBC4S09H	71	27.0890	-0.6412	25.4150	1.8910	0.0000	0.0000	-0.0001	0.0000	0.46837	0.65499	40.722
D505	72	27.3425	-0.6515	24.6803	1.8557	0.0000	0.0000	-0.0001	0.0000	0.46952	0.65624	40.918
MBC4S09V	73	27.3425	-0.6515	24.6803	1.8557	0.0000	0.0000	-0.0001	0.0000	0.46952	0.65624	40.918
D516	74	30.5934	-0.7706	17.1366	1.4441	0.0000	0.0000	-0.0001	0.0000	0.48211	0.67397	43.204
IPM4S10	75	30.5934	-0.7706	17.1366	1.4441	0.0000	0.0000	-0.0001	0.0000	0.48211	0.67397	43.204
D503	76	30.9422	-0.7823	16.4968	1.4037	0.0000	0.0000	-0.0001	0.0000	0.48328	0.67609	43.429
MQA4S10	77	30.6084	1.8853	16.0901	-0.0362	0.0000	0.0000	-0.0001	0.0000	0.48482	0.67904	43.729
D504	78	29.8856	1.8566	16.1064	-0.0482	0.0000	0.0000	-0.0001	0.0000	0.48584	0.68094	43.922
MBC4S10H	79	29.8856	1.8566	16.1064	-0.0482	0.0000	0.0000	-0.0001	0.0000	0.48584	0.68094	43.922
D505	80	29.1632	1.8274	16.1277	-0.0604	0.0000	0.0000	-0.0001	0.0000	0.48689	0.68288	44.118
MBC4S10V	81	29.1632	1.8274	16.1277	-0.0604	0.0000	0.0000	-0.0001	0.0000	0.48689	0.68288	44.118
D506	82	27.3539	1.7522	16.2046	-0.0918	0.0000	0.0000	-0.0001	0.0000	0.48974	0.68786	44.623
MAT4S10H	83	27.3539	1.7522	16.2046	-0.0918	0.0000	0.0000	-0.0001	0.0000	0.48974	0.68786	44.623
D517	84	8.3954	-0.4992	33.2307	-1.0334	0.0000	0.0000	-0.0002	0.0000	0.73090	0.80090	59.754
IPM4E01	85	8.3954	-0.4992	33.2307	-1.0334	0.0000	0.0000	-0.0002	0.0000	0.73090	0.80090	59.754
D518	86	8.7079	-0.5438	33.8556	-1.0521	0.0000	0.0000	-0.0002	0.0000	0.73647	0.80232	60.054
MQB4E01	87	8.9662	-1.1838	33.8206	1.2847	0.0000	0.0000	-0.0002	0.0000	0.73918	0.80303	60.204
D519	88	9.6203	-1.2556	33.1372	1.2637	0.0000	0.0000	-0.0002	0.0000	0.74378	0.80430	60.472
MBM4E01H	89	9.6203										

ITV4E02	109	110.6427	4.8412	12.2981	-1.0509	0.0000	0.0000	-0.0001	0.0000	0.82415	0.97952	77.733
D517	110	14.7064	1.4994	83.2728	-3.6399	0.0000	0.0000	-0.0001	0.0000	0.88535	1.05791	92.864
IPM4E03	111	14.7064	1.4994	83.2728	-3.6399	0.0000	0.0000	-0.0001	0.0000	0.88535	1.05791	92.864
D518	112	13.8277	1.4332	85.4695	-3.6912	0.0000	0.0000	-0.0001	0.0000	0.88869	1.05847	93.164
MQB4E03	113	13.6061	0.0511	85.2985	4.8258	0.0000	0.0000	-0.0001	0.0000	0.89044	1.05875	93.314
D519	114	13.5840	0.0313	82.7309	4.7494	0.0000	0.0000	-0.0001	0.0000	0.89358	1.05926	93.582
MBM4E03H	115	13.5840	0.0313	82.7309	4.7494	0.0000	0.0000	-0.0001	0.0000	0.89358	1.05926	93.582
D505	116	13.5746	0.0168	80.8792	4.6936	0.0000	0.0000	-0.0001	0.0000	0.89588	1.05964	93.778
MBM4E03V	117	13.5746	0.0168	80.8792	4.6936	0.0000	0.0000	-0.0001	0.0000	0.89588	1.05964	93.778
D523	118	31.0636	-1.1353	3.7164	0.2413	0.0000	0.0000	0.0001	0.0000	1.03363	1.23855	109.414
IPM4A01	119	31.0636	-1.1353	3.7164	0.2413	0.0000	0.0000	0.0001	0.0000	1.03363	1.23855	109.414
D503	120	31.5775	-1.1519	3.6224	0.1773	0.0000	0.0000	0.0001	0.0000	1.03477	1.24830	109.639
MQA4A01	121	31.1540	2.5468	3.6691	-0.3351	0.0000	0.0000	0.0001	0.0000	1.03629	1.26149	109.939
D504	122	30.1791	2.5004	3.8099	-0.3937	0.0000	0.0000	0.0001	0.0000	1.03729	1.26971	110.132
MBC4A01H	123	30.1791	2.5004	3.8099	-0.3937	0.0000	0.0000	0.0001	0.0000	1.03729	1.26971	110.132
D505	124	29.2078	2.4533	3.9760	-0.4531	0.0000	0.0000	0.0001	0.0000	1.03834	1.27773	110.328
MBC4A01V	125	29.2078	2.4533	3.9760	-0.4531	0.0000	0.0000	0.0001	0.0000	1.03834	1.27773	110.328
D506	126	26.7891	2.3318	4.5115	-0.6063	0.0000	0.0000	0.0001	0.0000	1.04122	1.29677	110.833
ITV4A01	127	26.7891	2.3318	4.5115	-0.6063	0.0000	0.0000	0.0001	0.0000	1.04122	1.29677	110.833
D524	128	18.4402	1.8523	8.1382	-1.2112	0.0000	0.0000	0.0001	0.0000	1.05552	1.35018	112.829
MBB4A01	129	11.9245	1.4036	14.1613	-1.7902	0.0981	0.0982	0.0001	0.0000	1.07701	1.38004	114.830
D525	130	7.7752	0.9678	21.3351	-2.3097	0.2699	0.0982	0.0002	0.0000	1.10609	1.39609	116.579
MBB4A02	131	4.8730	0.4825	31.6688	-2.8398	0.5631	0.1953	0.0002	0.0000	1.15865	1.40837	118.580
D526	132	4.0983	-0.1918	48.8405	-3.6026	1.0838	0.1953	0.0003	0.0000	1.26035	1.41916	121.245
IPM4A02	133	4.0983	-0.1918	48.8405	-3.6026	1.0838	0.1953	0.0003	0.0000	1.26035	1.41916	121.245
D503	134	4.1973	-0.2487	50.4736	-3.6669	1.1277	0.1953	0.0003	0.0000	1.26898	1.41988	121.470
MQA4A02	135	4.5937	-1.0953	50.0806	4.9545	1.2158	0.3948	0.0003	0.0000	1.27995	1.42082	121.770
D527	136	5.5189	-1.2816	46.3009	4.7559	1.3695	0.3948	0.0002	0.0000	1.29227	1.42211	122.159
MBC4A02V	137	5.5189	-1.2816	46.3009	4.7559	1.3695	0.3948	0.0002	0.0000	1.29227	1.42211	122.159
D528	138	17.9088	-2.7523	21.8984	3.1891	2.5820	0.3948	0.0002	0.0000	1.34226	1.43748	125.231
IPM4A03	139	17.9088	-2.7523	21.8984	3.1891	2.5820	0.3948	0.0002	0.0000	1.34226	1.43748	125.231
D503	140	19.1695	-2.8599	20.4912	3.0746	2.6706	0.3948	0.0002	0.0000	1.34419	1.43917	125.455
MQA4A03	141	19.1607	2.8885	20.4721	-3.0089	2.6686	-0.4081	0.0001	0.0000	1.34664	1.44154	125.755
D504	142	18.0630	2.7944	21.6527	-3.1037	2.5898	-0.4081	0.0002	0.0000	1.34829	1.44300	125.949
MBC4A03H	143	18.0630	2.7944	21.6527	-3.1037	2.5898	-0.4081	0.0002	0.0000	1.34829	1.44300	125.949
D529	144	15.8117	2.5905	24.3338	-3.3090	2.4192	-0.4081	0.0002	0.0000	1.35223	1.44590	126.367
IHA4A03	145	15.8117	2.5905	24.3338	-3.3090	2.4192	-0.4081	0.0002	0.0000	1.35223	1.44590	126.367
D530	146	5.0084	1.2010	47.1783	-4.7083	1.2563	-0.4081	0.0002	0.0000	1.40411	1.45930	129.216
IPM4A04	147	5.0084	1.2010	47.1783	-4.7083	1.2563	-0.4081	0.0002	0.0000	1.40411	1.45930	129.216
D503	148	4.4934	1.0914	49.3185	-4.8186	1.1646	-0.4081	0.0002	0.0000	1.41165	1.46004	129.441
MQA4A04	149	4.0949	0.2594	49.6695	3.6688	1.0711	-0.2179	0.0002	0.0000	1.42288	1.46100	129.741
D527	150	3.9325	0.1580	46.8575	3.5555	0.9863	-0.2179	0.0002	0.0000	1.43834	1.46228	130.130
MBC4A04V	151	3.9325	0.1580	46.8575	3.5555	0.9863	-0.2179	0.0002	0.0000	1.43834	1.46228	130.130
D531	152	4.7724	-0.4938	30.8950	2.8274	0.4414	-0.2179	0.0002	0.0000	1.53629	1.47275	132.631
MBB4A03	153	7.7509	-0.9945	20.6334	2.2861	0.1034	-0.1203	0.0001	0.0000	1.58950	1.48539	134.632
D525	154	12.0171	-1.4436	13.5572	1.7581	-0.1071	-0.1203	0.0001	0.0000	1.61851	1.50207	136.381
MBB4A04	155	18.7215	-1.9067	7.6842	1.1685	-0.2489	-0.0215	0.0000	0.0000	1.63975	1.53350	138.382
D526	156	30.6448	-2.5666	3.6420	0.3480	-0.3063	-0.0215	0.0000	0.0000	1.65750	1.61754	141.048
IPM4A05	157	30.6448	-2.5666	3.6420	0.3480	-0.3063	-0.0215	0.0000	0.0000	1.65750	1.61754	141.048
D503	158	31.8105	-2.6223	3.5012	0.2789	-0.3111	-0.0215	0.0000	0.0000	1.65865	1.62756	141.272
MQA4A05	159	31.8126	2.6154	3.5319	-0.3828	-0.3099	0.0297	0.0000	0.0000	1.66013	1.64126	141.572
D504	160	30.8114	2.5678	3.6919	-0.4455	-0.3042	0.0297	0.0000	0.0000	1.66112	1.64978	141.765
MBC4A05H	161	30.8114	2.5678	3.6919	-0.4455	-0.3042	0.0297	0.0000	0.0000	1.66112	1.64978	141.765
D532	162	18.7537	1.9031	8.4560	-1.3210	0.0297	-0.0001	0.0000	0.0000	1.67901	1.72995	144.462
MBB4A05	163	12.0586	1.4424	15.0026	-1.9413	-0.0662	0.1284	-0.0001	0.0000	1.70020	1.75840	146.463
D525	164	7.7930	0.9954	22.7693	-2.4974	0.1584	0.1284	-0.0002	0.0000	1.72908	1.77349	148.213
MBB4A06	165	4.8061	0.4971	33.9315	-3.0648	0.5122	0.2258	-0.0002	0.0000	1.78195	1.78497	150.214
D526	166	3.9995	-0.1945	52.4456	-3.8812	1.1140	0.2258	-0.0003	0.0000	1.88595	1.79503	152.879
IPM4A06	167	3.9995	-0.1945	52.4456	-3.8812	1.1140	0.2258	-0.0003	0.0000	1.88595	1.79503	152.879
D503	168	4.1000	-0.2528	54.2048	-3.9500	1.1647	0.2258	-0.0003	0.0000	1.89479	1.79570	153.104
MQA4A06	169	4.4945	-1.0847	53.7897	5.3102	1.2630	0.4323	-0.0003	0.0000	1.90601	1.79658	153.404
D527	170	5.4123	-1.2731	49.7380	5.0990	1.4312	0.4323	-0.0003	0.0000	1.91859	1.79777	153.793
MBC4A06V	171	5.4123	-1.2731	49.7380	5.0990	1.4312	0.4323	-0.0003	0.0000	1.91859	1.79777	153.793
D528	172	17.8012	-2.7605	23.5368	3.4317	2.7591	0.4323	-0.0002	0.0000	1.96924	1.81208	156.864
IPM4A07	173	17.8012	-2.7605	23.5368	3.4317	2.7591	0.4323	-0.0002	0.0000	1.96924	1.81208	156.864
D503	174	19.0659	-2.8693	22.0224	3.3098	2.8562	0.4323	-0.0002	0.0000	1.97118	1.81365	157.089
MQA4A07	175	19.0719	2.8501	21.9978	-3.2255	2.8571	-0.4268	-0.0002	0.0000	1.97365	1.81585	157.389
D504	176	17.9887	2.7577	23.2632	-3.3256	2.7746	-0.4268	-0.0002	0.0000	1.97531	1.81721	157.582
MBC4A07H	177	17.9887	2.7577	23.2632	-3.3256	2.7746	-0.4268	-0.0002	0.0000	1.97531	1.81721	157.582
D533	178	5.0742	1.1947	50.5311	-5.0195	1.3801	-0.4268	-0.0003	0.0000	2.03086	1.83240	160.850
IPM4A08	179	5.0742	1.1947	50.5311	-5.0195	1.3801	-0.4268	-0.0003	0.0000	2.03086	1.83240	160.850
D503	180	4.5615	1.0872	52.8125	-5.1360	1.2842	-0.4268	-0.0003	0.0000	2.03830	1.83309	161.074
MQA4A08	181	4.1684	0.2456	53.1738	3.9524	1.1881	-0.2164	-0.0003	0.0000	2.04935	1.83399	161.374
D527	182	4.0157	0.1466	50.1442	3.8308	1.1039	-0.2164	-0.0003	0.0000	2.06451	1.83519	161.764
MBC4A08V	183	4.0157	0.1466	50.1442	3.8308	1.1039	-0.2164	-0.0003	0.0000	2.06451	1.83519	161.764
D534	184	4.8733	-0.4895	32.9391	3.0490	0.5627	-0.2164	-0.0002	0.0000	2.16014	1.84499	164.264
MBB4A07	185	7.8092	-0.9775	21.8694	2.4671	0.2273	-0.1192	-0.0002	0.0000	2.21257	1.85687	166.265
D525	186	11.9968	-1.4157	14.2278	1.9001	0.0188	-0.1192	-0.0001	0.0000	2.24150	1.87269	168.015
MBB4A08	187	18.5657	-1.8668	7.8737	1.2662	-0.1211	-0.0207	-0.0001	0.0000	2.26285	1.90298	170.016
D526	188	30.2336	-2.5107	3.4727	0.3849	-0.1764	-0.0207	0.0000	0.0000	2.28079	1.98811	172.681
IPM4A09	189	30.2336	-2.5107	3.4727	0.3849	-0.1764	-0.0207	0.0000	0.0000	2.28079	1.98811	172.681
D503	190	31.3739	-2.5650	3.3164	0.3107	-0.1810	-0.0207	0.0000	0.0000	2.28195	1.99865	172.906
MQA4A09	191	31.3634	2.5995	3.3202	-0.3235	-0.1828	0.0093	0.0000	0.0000	2.28346	2.01318	173.206
D504	192	30.										

MQA4A12	213	4.2453	0.2681	54.5392	3.9854	1.0792	-0.1960	0.0002	0.0000	2.67294	2.21427	193.008
D527	214	4.0749	0.1698	51.4836	3.8649	1.0029	-0.1960	0.0002	0.0000	2.68786	2.21544	193.397
MBC4A12V	215	4.0749	0.1698	51.4836	3.8649	1.0029	-0.1960	0.0002	0.0000	2.68786	2.21544	193.397
D531	216	4.8045	-0.4616	34.0888	3.0907	0.5129	-0.1960	0.0002	0.0000	2.78346	2.22494	195.898
MBB4A11	217	7.6220	-0.9463	22.8356	2.5169	0.2185	-0.0986	0.0001	0.0000	2.83695	2.23638	197.899
D525	218	11.6950	-1.3815	15.0109	1.9549	0.0459	-0.0986	0.0001	0.0000	2.86662	2.25144	199.648
MBB4A12	219	18.1223	-1.8303	8.4233	1.3278	-0.0529	-0.0003	0.0001	0.0000	2.88851	2.27994	201.649
D526	220	29.5847	-2.4701	3.6754	0.4535	-0.0538	-0.0003	0.0001	0.0000	2.90687	2.35944	204.315
IPM4A13	221	29.5847	-2.4701	3.6754	0.4535	-0.0538	-0.0003	0.0001	0.0000	2.90687	2.35944	204.315
D503	222	30.7066	-2.5240	3.4882	0.3798	-0.0539	-0.0003	0.0001	0.0000	2.90805	2.36944	204.539
MQA4A13	223	30.7045	2.5309	3.4575	-0.2758	-0.0527	0.0085	0.0001	0.0000	2.90960	2.38331	204.839
D504	224	29.7358	2.4843	3.5757	-0.3359	-0.0510	0.0085	0.0001	0.0000	2.91061	2.39206	205.032
MBC4A13H	225	29.7358	2.4843	3.5757	-0.3359	-0.0510	0.0085	0.0001	0.0000	2.91061	2.39206	205.032
D535	226	26.3688	2.3151	4.2002	-0.5543	-0.0451	0.0085	0.0001	0.0000	2.91460	2.42103	205.734
D524	227	18.0901	1.8339	7.6514	-1.1753	-0.0282	0.0085	0.0001	0.0000	2.92916	2.47828	207.729
MBB4A13	228	11.6534	1.3826	13.5654	-1.7717	0.0868	0.1067	0.0001	0.0000	2.95111	2.50977	209.730
D525	229	7.5799	0.9454	20.6995	-2.3056	0.2735	0.1067	0.0001	0.0000	2.98091	2.52642	211.480
MBB4A14	230	4.7708	0.4583	31.0522	-2.8533	0.5837	0.2038	0.0001	0.0000	3.03476	2.53900	213.481
D538	231	4.2403	-0.2747	50.0037	-3.7041	1.1728	0.2038	0.0001	0.0000	3.14582	2.55069	216.371
IPM4A14	232	4.2403	-0.2747	50.0037	-3.7041	1.1728	0.2038	0.0001	0.0000	3.14582	2.55069	216.371
MQA4A14	233	4.6552	-1.1318	49.6566	4.8411	1.2647	0.4112	0.0001	0.0000	3.15667	2.55164	216.671
D527	234	5.6105	-1.3226	45.9625	4.6495	1.4247	0.4112	0.0001	0.0000	3.16880	2.55293	217.060
MBC4A14V	235	5.6105	-1.3226	45.9625	4.6495	1.4247	0.4112	0.0001	0.0000	3.16880	2.55293	217.060
D528	236	18.3573	-2.8276	22.0436	3.1381	2.6878	0.4112	0.0000	0.0000	3.21774	2.56831	220.131
D503	237	19.6525	-2.9377	20.6585	3.0275	2.7802	0.4112	0.0000	0.0000	3.21962	2.56999	220.356
MQA4A15	238	19.6466	2.9568	20.6830	-3.1118	2.7782	-0.4246	0.0000	0.0000	3.22201	2.57233	220.656
D504	239	18.5229	2.8610	21.9044	-3.2115	2.6962	-0.4246	0.0000	0.0000	3.22362	2.57378	220.849
MBC4A15H	240	18.5228	2.8610	21.9044	-3.2115	2.6962	-0.4246	0.0000	0.0000	3.22362	2.57378	220.849
D533	241	5.1205	1.2407	48.4064	-4.8993	1.3088	-0.4246	0.0000	0.0000	3.27808	2.58977	224.117
IPM4A16	242	5.1205	1.2407	48.4064	-4.8993	1.3088	-0.4246	0.0000	0.0000	3.27808	2.58977	224.117
D503	243	4.5881	1.1293	50.6338	-5.0153	1.2134	-0.4246	0.0000	0.0000	3.28546	2.59050	224.341
MQA4A16	244	4.1718	0.2819	51.0347	3.7017	1.1162	-0.2264	0.0000	0.0000	3.29647	2.59143	224.641
D527	245	3.9916	0.1812	48.1966	3.5896	1.0281	-0.2264	0.0000	0.0000	3.31168	2.59268	225.031
MBC4A16V	246	3.9916	0.1812	48.1966	3.5896	1.0281	-0.2264	0.0000	0.0000	3.31168	2.59268	225.031
D534	247	4.7036	-0.4659	32.0445	2.8691	0.4620	-0.2264	0.0000	0.0000	3.40960	2.60281	227.531
MBB4A15	248	7.5637	-0.9633	21.5993	2.3359	0.1071	-0.1288	0.0000	0.0000	3.46390	2.61494	229.532
D525	249	11.7153	-1.4093	14.3402	1.8128	-0.1184	-0.1288	0.0000	0.0000	3.49366	2.63079	231.282
MBB4A16	250	18.2782	-1.8702	8.2337	1.2301	-0.2771	-0.0300	0.0000	0.0000	3.51543	2.66029	233.283
D526	251	29.9960	-2.5260	3.8447	0.4165	-0.3570	-0.0300	-0.0001	0.0000	3.53359	2.73884	235.948
IPM4A17	252	29.9960	-2.5260	3.8447	0.4165	-0.3570	-0.0300	-0.0001	0.0000	3.53359	2.73884	235.948
D503	253	31.1434	-2.5813	3.6729	0.3480	-0.3638	-0.0300	-0.0001	0.0000	3.53476	2.74836	236.173
MQA4A17	254	31.1539	2.5468	3.6691	-0.3351	-0.3638	0.0300	-0.0001	0.0000	3.53628	2.76148	236.473
D504	255	30.1791	2.5004	3.8099	-0.3937	-0.3580	0.0300	-0.0001	0.0000	3.53728	2.76971	236.666
MBC4A17H	256	30.1791	2.5004	3.8099	-0.3937	-0.3580	0.0300	-0.0001	0.0000	3.53728	2.76971	236.666
D535	257	26.7890	2.3318	4.5115	-0.6063	-0.3369	0.0300	-0.0001	0.0000	3.54121	2.79677	237.368
ITV4A17	258	26.7890	2.3318	4.5115	-0.6063	-0.3369	0.0300	-0.0001	0.0000	3.54121	2.79677	237.368
D524	259	18.4401	1.8523	8.1382	-1.2112	-0.2771	0.0300	-0.0001	0.0000	3.55551	2.85018	239.363
MBB4A17	260	11.9245	1.4036	14.1613	-1.7902	-0.1184	0.1288	-0.0001	0.0000	3.57700	2.88004	241.364
D525	261	7.7752	0.9678	21.3351	-2.3097	0.1071	0.1288	-0.0002	0.0000	3.60608	2.89609	243.114
MBB4A18	262	4.8730	0.4825	31.6688	-2.8398	0.4620	-0.2264	-0.0002	0.0000	3.65864	2.90837	245.114
D526	263	4.0983	-0.1918	48.8405	-3.6026	1.0653	0.2264	-0.0003	0.0000	3.76035	2.91916	247.780
IPM4A18	264	4.0983	-0.1918	48.8405	-3.6026	1.0653	0.2264	-0.0003	0.0000	3.76035	2.91916	247.780
D503	265	4.1973	-0.2487	50.4736	-3.6669	1.1162	0.2264	-0.0003	0.0000	3.76897	2.91988	248.004
MQA4A18	266	4.5937	-1.0953	50.0806	4.9545	1.2134	0.4246	-0.0003	0.0000	3.77995	2.92082	248.304
D527	267	5.5189	-1.2816	46.3009	4.7559	1.3787	0.4246	-0.0002	0.0000	3.79226	2.92211	248.694
MBC4A18V	268	5.5189	-1.2816	46.3009	4.7559	1.3787	0.4246	-0.0002	0.0000	3.79226	2.92211	248.694
D528	269	17.9088	-2.7523	21.8984	3.1891	2.6828	0.4246	-0.0002	0.0000	3.84225	2.93748	251.765
D503	270	19.1696	-2.8599	20.4912	3.0746	2.7782	0.4246	-0.0002	0.0000	3.84418	2.93917	251.990
MQA4A19	271	19.1607	2.8885	20.4721	-3.0089	2.7802	-0.4112	-0.0001	0.0000	3.84663	2.94154	252.290
D504	272	18.0631	2.7944	21.6527	-3.1037	2.7008	-0.4112	-0.0002	0.0000	3.84829	2.94300	252.483
MBC4A19H	273	18.0631	2.7944	21.6527	-3.1037	2.7008	-0.4112	-0.0002	0.0000	3.84829	2.94300	252.483
D536	274	4.4934	1.0914	49.3185	-4.8186	1.2647	-0.4112	-0.0002	0.0000	3.91164	2.96004	255.975
IPM4A20	275	4.4934	1.0914	49.3185	-4.8186	1.2647	-0.4112	-0.0002	0.0000	3.91164	2.96004	255.975
MQA4A20	276	4.0949	0.2594	49.6695	3.6688	1.1728	-0.2038	-0.0002	0.0000	3.92287	2.96100	256.275
D527	277	3.9324	0.1580	46.8575	3.5555	1.0935	-0.2038	-0.0002	0.0000	3.93834	2.96228	256.664
MBC4A20V	278	3.9324	0.1580	46.8575	3.5555	1.0935	-0.2038	-0.0002	0.0000	3.93834	2.96228	256.664
D531	279	4.7724	-0.4938	30.8950	2.8274	0.5837	-0.2038	-0.0002	0.0000	4.03628	2.97275	259.165
MBB4A19	280	7.7509	-0.9945	20.6334	2.2861	0.2735	-0.1067	-0.0001	0.0000	4.08949	2.98539	261.166
D525	281	12.0170	-1.4436	13.5572	1.7581	0.0868	-0.1067	-0.0001	0.0000	4.11850	3.00207	262.916
MBB4A20	282	18.7215	-1.9067	7.6842	1.1685	-0.0282	-0.0085	0.0000	0.0000	4.13974	3.03350	264.916
D526	283	30.6448	-2.5666	3.6420	0.3480	-0.0508	-0.0085	0.0000	0.0000	4.15749	3.11754	267.582
IPM4A21	284	30.6448	-2.5666	3.6420	0.3480	-0.0508	-0.0085	0.0000	0.0000	4.15749	3.11754	267.582
D503	285	31.8105	-2.6223	3.5012	0.2789	-0.0527	-0.0085	0.0000	0.0000	4.15864	3.12756	267.806
MQA4A21	286	31.8126	2.6154	3.5319	-0.3828	-0.0539	0.0003	0.0000	0.0000	4.16013	3.14126	268.106
D504	287	30.8114	2.5678	3.6919	-0.4455	-0.0538	0.0003	0.0000	0.0000	4.16111	3.14978	268.300
MBC4A21H	288	30.8114	2.5678	3.6919	-0.4455	-0.0538	0.0003	0.0000	0.0000	4.16111	3.14978	268.300
D535	289	27.3299	2.3949	4.4767	-0.6733	-0.0536	0.0003	0.0000	0.0000	4.16496	3.17738	269.001
D524	290	18.7537	1.9031	8.4560	-1.3210	-0.0529	0.0003	0.0001	0.0000	4.17900	3.22995	270.997
MBB4A21	291	12.0587	1.4424	15.0026	-1.9413	0.0459	0.0986	0.0001	0.0000	4.20019	3.25840	272.997
D525	292	7.7930	0.9954	22.7693	-2.4974	0.2185	0.0986	0.0002	0.0000	4.22907	3.27349	274.747
MBB4A22	293	4.8061	0.4971	33.9315	-3.0648	0.5129	0.1960	0.0002	0.0000	4.28194	3.28496	276.748
D538	294	4.1000	-0.2528	54.2049	-3.9500	1.0792	0.1960	0.0003	0.0000	4.39478	3.29570	279.638
IPM4A22	295	4.1000	-0.2528	54.2049	-3.9500	1.0792	0.1960	0.0003	0.0000	4.39478	3.29570	279.638
MQA4A22	296	4.4945</										

MQA4A25	317	31.3634	2.5995	3.3202	-0.3235	-0.1810	0.0207	0.0000	0.0000	4.78345	3.51318	299.740
D504	318	30.3685	2.5517	3.4576	-0.3878	-0.1770	0.0207	0.0000	0.0000	4.78445	3.52226	299.933
MBC4A25H	319	30.3685	2.5517	3.4576	-0.3878	-0.1770	0.0207	0.0000	0.0000	4.78445	3.52226	299.933
D535	320	26.9099	2.3782	4.1655	-0.6212	-0.1625	0.0207	0.0000	0.0000	4.78835	3.55185	300.635
ITV4A25	321	26.9099	2.3782	4.1655	-0.6212	-0.1625	0.0207	0.0000	0.0000	4.78835	3.55185	300.635
D524	322	18.4038	1.8847	7.9693	-1.2851	-0.1211	0.0207	0.0000	0.0000	4.80264	3.60813	302.630
MBB4A25	323	11.7877	1.4215	14.4068	-1.9228	0.0188	0.1192	0.0000	0.0000	4.82428	3.63805	304.631
D525	324	7.5978	0.9731	22.1340	-2.4933	0.2273	0.1192	-0.0001	0.0000	4.85387	3.65367	306.381
MBB4A26	325	4.7039	0.4730	33.3151	-3.0784	0.5627	0.2164	-0.0001	0.0000	4.90805	3.66542	308.381
D526	326	4.0308	-0.2204	51.9598	-3.9166	1.1395	0.2164	-0.0001	0.0000	5.01289	3.67563	311.047
IPM4A26	327	4.0308	-0.2204	51.9598	-3.9166	1.1395	0.2164	-0.0001	0.0000	5.01289	3.67563	311.047
D503	328	4.1429	-0.2789	53.7354	-3.9873	1.1881	0.2164	-0.0001	0.0000	5.02164	3.67630	311.272
MQA4A26	329	4.5559	-1.1212	53.3662	5.1969	1.2842	0.4268	-0.0001	0.0000	5.03274	3.67719	311.572
D527	330	5.5038	-1.3141	49.4001	4.9926	1.4503	0.4268	-0.0001	0.0000	5.04512	3.67839	311.961
MBC4A26V	331	5.5038	-1.3141	49.4001	4.9926	1.4503	0.4268	-0.0001	0.0000	5.04512	3.67839	311.961
D528	332	18.2496	-2.8357	23.6823	3.3807	2.7612	0.4268	-0.0001	0.0000	5.09469	3.69270	315.032
D503	333	19.5487	-2.9470	22.1898	3.2628	2.8571	0.4268	-0.0001	0.0000	5.09659	3.69426	315.257
MQA4A27	334	19.5575	2.9184	22.2090	-3.3284	2.8562	-0.4323	-0.0001	0.0000	5.09899	3.69645	315.557
D504	335	18.4483	2.8244	23.5150	-3.4335	2.7727	-0.4323	-0.0001	0.0000	5.10061	3.69779	315.750
MBC4A27H	336	18.4483	2.8244	23.5150	-3.4335	2.7727	-0.4323	-0.0001	0.0000	5.10061	3.69779	315.750
D536	337	4.6563	1.1251	54.1279	-5.3327	1.2630	-0.4323	-0.0002	0.0000	5.16210	3.71339	319.242
IPM4A28	338	4.6563	1.1251	54.1279	-5.3327	1.2630	-0.4323	-0.0002	0.0000	5.16210	3.71339	319.242
MQA4A28	339	4.2453	0.2681	54.5392	3.9854	1.1647	-0.2258	-0.0002	0.0000	5.17293	3.71427	319.542
D527	340	4.0749	0.1698	51.4835	3.8649	1.0768	-0.2258	-0.0002	0.0000	5.18785	3.71544	319.931
MBC4A28V	341	4.0749	0.1698	51.4835	3.8649	1.0768	-0.2258	-0.0002	0.0000	5.18785	3.71544	319.931
D531	342	4.8045	-0.4616	34.0888	3.0907	0.5122	-0.2258	-0.0002	0.0000	5.28345	3.72494	322.432
MBB4A27	343	7.6220	-0.9463	22.8356	2.5169	0.1584	-0.1284	-0.0001	0.0000	5.33694	3.73638	324.433
D525	344	11.6950	-1.3815	15.0109	1.9549	-0.0662	-0.1284	-0.0001	0.0000	5.36661	3.75144	326.183
MBB4A28	345	18.1223	-1.8303	8.4233	1.3278	-0.2241	-0.0297	-0.0001	0.0000	5.38850	3.77994	328.184
D526	346	29.5847	-2.4701	3.6754	0.4535	-0.3032	-0.0297	-0.0001	0.0000	5.40686	3.85944	330.849
IPM4A29	347	29.5847	-2.4701	3.6754	0.4535	-0.3032	-0.0297	-0.0001	0.0000	5.40686	3.85944	330.849
D503	348	30.7066	-2.5240	3.4882	0.3798	-0.3099	-0.0297	-0.0001	0.0000	5.40805	3.86944	331.074
MQA4A29	349	30.7045	2.5309	3.4575	-0.2758	-0.3111	0.0215	-0.0001	0.0000	5.40959	3.88331	331.374
D504	350	29.7358	2.4843	3.5757	-0.3359	-0.3070	0.0215	-0.0001	0.0000	5.41061	3.89206	331.567
MBC4A29H	351	29.7358	2.4843	3.5757	-0.3359	-0.3070	0.0215	-0.0001	0.0000	5.41061	3.89206	331.567
D532	352	18.0901	1.8339	7.6514	-1.1753	-0.2489	0.0215	-0.0001	0.0000	5.42915	3.97828	334.264
MBB4A29	353	11.6534	1.3826	13.5654	-1.7717	-0.1071	0.1203	-0.0001	0.0000	5.45110	4.00977	336.264
D525	354	7.5799	0.9454	20.6995	-2.3056	0.1034	0.1203	-0.0001	0.0000	5.48091	4.02642	338.014
MBB4A30	355	4.7708	0.4583	31.0521	-2.8533	0.4414	0.2179	-0.0001	0.0000	5.53475	4.03900	340.015
D538	356	4.2403	-0.2747	50.0037	-3.7041	1.0711	0.2179	-0.0001	0.0000	5.64581	4.05068	342.905
IPM4A30	357	4.2403	-0.2747	50.0037	-3.7041	1.0711	0.2179	-0.0001	0.0000	5.64581	4.05068	342.905
MQA4A30	358	4.6552	-1.1318	49.6566	4.8411	1.1646	0.4081	-0.0001	0.0000	5.65666	4.05163	343.205
D527	359	5.6105	-1.3226	45.9625	4.6495	1.3234	0.4081	-0.0001	0.0000	5.66879	4.05293	343.594
MBC4A30V	360	5.6105	-1.3226	45.9625	4.6495	1.3234	0.4081	-0.0001	0.0000	5.66879	4.05293	343.594
D528	361	18.3574	-2.8276	22.0436	3.1381	2.5769	0.4081	0.0000	0.0000	5.71773	4.06831	346.666
D503	362	19.6525	-2.9377	20.6585	3.0275	2.6686	0.4081	0.0000	0.0000	5.71961	4.06999	346.890
MQA4A31	363	19.6466	2.9568	20.6830	-3.1118	2.6706	-0.3948	0.0000	0.0000	5.72200	4.07233	347.190
D504	364	18.5229	2.8610	21.9044	-3.2115	2.5944	-0.3948	0.0000	0.0000	5.72362	4.07378	347.384
MBC4A31H	365	18.5229	2.8610	21.9044	-3.2115	2.5944	-0.3948	0.0000	0.0000	5.72362	4.07378	347.384
D533	366	5.1205	1.2407	48.4064	-4.8993	1.3045	-0.3948	0.0000	0.0000	5.77807	4.08977	350.651
IPM4A32	367	5.1205	1.2407	48.4064	-4.8993	1.3045	-0.3948	0.0000	0.0000	5.77807	4.08977	350.651
D503	368	4.5881	1.1293	50.6337	-5.0153	1.2158	-0.3948	0.0000	0.0000	5.78545	4.09050	350.876
MQA4A32	369	4.1718	0.2819	51.0347	3.7017	1.1277	-0.1953	0.0000	0.0000	5.79646	4.09143	351.176
D537	370	4.7036	-0.4659	32.0445	2.8691	0.5631	-0.1953	0.0000	0.0000	5.90959	4.10281	354.066
MBB4A31	371	7.5637	-0.9633	21.5993	2.3359	0.2698	-0.0982	0.0000	0.0000	5.96389	4.11949	356.067
D525	372	11.7153	-1.4093	14.3402	1.8128	0.0981	-0.0982	0.0000	0.0000	5.99365	4.13079	357.816
MBB4A32	373	18.2782	-1.8702	8.2337	1.2301	0.0000	0.0000	0.0000	0.0000	6.01542	4.16029	359.817
D526	374	29.9960	-2.5260	3.8447	0.4165	0.0000	0.0000	0.0001	0.0000	6.03358	4.23884	362.483
IPM4R01	375	29.9960	-2.5260	3.8447	0.4165	0.0000	0.0000	0.0001	0.0000	6.03358	4.23884	362.483
D503	376	31.1433	-2.5813	3.6729	0.3480	0.0000	0.0000	0.0001	0.0000	6.03475	4.24836	362.707
MQA4R01	377	30.6412	4.2181	3.7301	-0.5426	0.0000	0.0000	0.0001	0.0000	6.03628	4.26141	363.007
D504	378	29.0347	4.0996	3.9526	-0.6096	0.0000	0.0000	0.0001	0.0000	6.03731	4.26942	363.200
MBC4R01H	379	29.0347	4.0996	3.9526	-0.6096	0.0000	0.0000	0.0001	0.0000	6.03731	4.26942	363.200
D535	380	23.5844	3.6694	4.9788	-0.8531	0.0000	0.0000	0.0001	0.0000	6.04158	4.29470	363.902
ITV4R01	381	23.5844	3.6694	4.9788	-0.8531	0.0000	0.0000	0.0001	0.0000	6.04158	4.29470	363.902
D539	382	12.4613	2.5773	9.1172	-1.4710	0.0000	0.0000	0.0001	0.0000	6.05814	4.33727	365.683
IPM4R02	383	12.4613	2.5773	9.1172	-1.4710	0.0000	0.0000	0.0001	0.0000	6.05814	4.33727	365.683
D503	384	11.3343	2.4395	9.7956	-1.5490	0.0000	0.0000	0.0001	0.0000	6.06114	4.34105	365.907
MQA4R02	385	11.3448	-2.4760	9.4502	2.6498	0.0000	0.0000	0.0001	0.0000	6.06545	4.34591	366.207
D504	386	12.3247	-2.5974	8.4582	2.4859	0.0000	0.0000	0.0001	0.0000	6.06805	4.34934	366.400
MBC4R02H	387	12.3247	-2.5974	8.4582	2.4859	0.0000	0.0000	0.0001	0.0000	6.06805	4.34934	366.400
D505	388	13.3675	-2.7207	7.5159	2.3194	0.0000	0.0000	0.0001	0.0000	6.07048	4.35326	366.596
MBC4R02V	389	13.3675	-2.7207	7.5159	2.3194	0.0000	0.0000	0.0001	0.0000	6.07048	4.35326	366.596
D516	390	29.0920	-4.1576	1.3473	0.3789	0.0000	0.0000	0.0000	0.0000	6.08897	4.48083	368.883
IPM4R03	391	29.0920	-4.1576	1.3473	0.3789	0.0000	0.0000	0.0000	0.0000	6.08897	4.48083	368.883
D503	392	30.9918	-4.2988	1.2199	0.1882	0.0000	0.0000	0.0000	0.0000	6.09016	4.50886	369.107
MQA4R03	393	28.2641	12.8591	1.3984	-0.8175	0.0000	0.0000	0.0000	0.0000	6.09173	4.54684	369.407
D504	394	23.5162	11.7223	1.7587	-1.0479	0.0000	0.0000	0.0000	0.0000	6.09292	4.56650	369.600
MBC4R03H	395	23.5162	11.7223	1.7587	-1.0479	0.0000	0.0000	0.0000	0.0000	6.09292	4.56650	369.600
D540	396	1.5864	-2.8874	14.3116	-4.0092	0.0000	0.0000	0.0000	0.0000	6.52631	4.64887	372.083
IPM4R04	397	1.5864	-2.8874	14.3116	-4.0092	0.0000	0.0000	0.0000	0.0000	6.52631	4.64887	372.083
D503	398	3.1808	-4.2097	16.1731	-4.2772	0.0000	0.0000	-0.0001	0.0000	6.54226	4.65122	372.307
MQA4R04	399	7.1170	-9.6322	16.0155	4.7732	0.0000	0.0000	-0.0001	0.0000	6.55258	4.65410	372.607
D504	400	11.329										

MAF4R03	421	2.3287	1.2702	14.9558	0.5930	0.0000	0.0000	-0.4983	0.0033	6.65890	5.13409	386.823
D545	422	1.5373	0.8516	14.5261	0.5593	0.0000	0.0000	-0.4970	0.0033	6.69048	5.13812	387.196
IPM4R08	423	1.5373	0.8516	14.5261	0.5593	0.0000	0.0000	-0.4970	0.0033	6.69048	5.13812	387.196
D503	424	1.2113	0.5995	14.2793	0.5390	0.0000	0.0000	-0.4963	0.0033	6.71680	5.14060	387.421
MQA4R08	425	1.0961	-0.1980	12.1373	6.2744	0.0000	0.0000	-0.4620	0.2229	6.75970	5.14415	387.721
D504	426	1.2079	-0.3812	9.8376	5.6320	0.0000	0.0000	-0.4189	0.2229	6.78655	5.14696	387.914
MBC4R08H	427	1.2079	-0.3812	9.8376	5.6320	0.0000	0.0000	-0.4189	0.2229	6.78655	5.14696	387.914
D505	428	1.3939	-0.5671	7.7568	4.9798	0.0000	0.0000	-0.3752	0.2229	6.81069	5.15053	388.110
MBC4R08V	429	1.3939	-0.5671	7.7568	4.9798	0.0000	0.0000	-0.3752	0.2229	6.81069	5.15053	388.110
D508	430	4.6019	-1.8339	0.3870	0.5360	0.0000	0.0000	-0.0773	0.2229	6.89914	5.29069	389.446
IPM4R09	431	4.6019	-1.8339	0.3870	0.5360	0.0000	0.0000	-0.0773	0.2229	6.89914	5.29069	389.446
D503	432	5.4737	-2.0469	0.3141	-0.2112	0.0000	0.0000	-0.0272	0.2229	6.90626	5.40212	389.671
MQA4R09	433	6.1932	-0.2736	0.7897	-1.4250	0.0000	0.0000	0.0394	0.2249	6.91434	5.50697	389.971
D504	434	6.3054	-0.3071	1.4834	-2.1663	0.0000	0.0000	0.0828	0.2249	6.91926	5.53552	390.164
MBC4R09H	435	6.3054	-0.3071	1.4834	-2.1663	0.0000	0.0000	0.0828	0.2249	6.91926	5.53552	390.164
D546	436	11.1112	-0.9635	72.7723	-16.6822	0.0000	0.0000	0.9334	0.2249	6.99388	5.59482	393.946
IPM4R10	437	11.1112	-0.9635	72.7723	-16.6822	0.0000	0.0000	0.9334	0.2249	6.99388	5.59482	393.946
D503	438	11.5528	-1.0025	80.4613	-17.5444	0.0000	0.0000	0.9839	0.2249	6.99703	5.59529	394.171
MQA4R10	439	12.9664	-3.8113	85.7423	0.3252	0.0000	0.0000	1.0187	0.0061	7.00098	5.59586	394.471
D504	440	14.4833	-4.0425	85.6171	0.3227	0.0000	0.0000	1.0199	0.0061	7.00322	5.59622	394.664
MBC4R10H	441	14.4833	-4.0425	85.6171	0.3227	0.0000	0.0000	1.0199	0.0061	7.00322	5.59622	394.664
D505	442	16.1148	-4.2773	85.4911	0.3202	0.0000	0.0000	1.0211	0.0061	7.00526	5.59658	394.860
MBC4R10V	443	16.1148	-4.2773	85.4911	0.3202	0.0000	0.0000	1.0211	0.0061	7.00526	5.59658	394.860
D547	444	20.8195	-4.8917	85.1659	0.3136	0.0000	0.0000	1.0243	0.0061	7.00972	5.59754	395.373
MAV4R04	445	45.2002	-7.2019	81.7781	1.3721	0.0000	0.0000	0.8474	-0.1833	7.02016	5.60132	397.376
D548	446	89.3180	-10.1719	75.0371	1.2826	0.0000	0.0000	0.3820	-0.1833	7.02653	5.60648	399.915
MAX4R05	447	107.7632	-8.5022	74.4912	-0.2555	0.0000	0.0000	0.2425	-0.0967	7.02816	5.60863	400.925
D549	448	144.6765	-9.8687	75.5757	-0.2842	0.0000	0.0000	0.0482	-0.0967	7.03072	5.61290	402.934
MAW4R06	449	162.8243	-9.6205	76.6181	-0.0485	0.0000	0.0000	0.0000	0.0000	7.03176	5.61499	403.936

MAXIMUM LATTICE FUNCTIONS :
 BETA X = 0.3223829197E+03 BETA Y = 0.8574228369E+02
 ETA X = 0.2857072638E+01 ETA Y = 0.1024285709E+01

1
 OPERATION LIST ,

MATRIX

1 -1,

AFTER :MAW4R06 ELEMENT #: 449

 * TRANSFORMATION MATRIX *

FIRST ORDER MATRIX

- 0.3193064E+01 0.1266401E+02 0.4669066E-14 0.9394068E-13 0.0000000E+00 -0.1637160E-04
 - 0.2066538E+00 0.1132788E+01 0.3024893E-15 0.1083419E-13 0.0000000E+00 -0.7085993E-06
 - 0.7458735E-14 0.4845435E-13 -0.4928022E+00 -0.2282138E+02 0.0000000E+00 -0.9431949E-05
 - -0.5500539E-15 -0.6010386E-15 0.3620996E-01 -0.3523495E+00 0.0000000E+00 0.1094414E-05
 - 0.1120652E-05 0.9571857E-05 -0.1977992E-06 -0.2829939E-04 0.1000000E+01 -0.5647346E-02
 - 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.1000000E+01

HORIZONTAL MOVEMENT ANALYSIS

COMPACTION FACTOR = -0.1398080E-04 GAMMA TR = -0.2674447E+03

MOVEMENT IS UNSTABLE

HALF-TRACE = 0.21629259412039E+01
 EIGENVALUE1 = 0.40808020130952E+01
 WITH EIGENVECTOR :
 X = -0.99755205943173E+00 XP = -0.69927739299337E-01
 EIGENVALUE2 = 0.24504986931271E+00
 WITH EIGENVECTOR :
 X = -0.97395886829061E+00 XP = 0.22672477341059E+00

VERTICAL MOVEMENT ANALYSIS

COS(MU) = -0.42257586720920E+00 NU = 0.68056300029537E+00
 ETA = -0.13261625121857E-04 ETAP = 0.45418083570415E-06
 ALPHA = 0.77484490227839E-01 BETA = 0.25180059258987E+02

1
 OPERATION LIST ,

HARDWARE

4.48249 2212.99 -80.6 100 -91.5251 -180 0.0 0 1 0;

VALUES ARE FOR ENERGY : 0.448E+01 GEV

THE LENGTHS ARE MEASURED IN METERS ,THE ANGLES IN DEGREES

THE SKYZ COORDINATES ,AZIMUTH,ELEVATION AND ROLL ANGLES ARE :

#	NAME	S	X	Y	Z	THETA	PHI	PSI
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1	MAW4S01	2213.9915500000	-80.6000000000	100.0482472502	-92.5250988552	180.0000000000	5.5244500000	0.0000000000
2	D500	2216.0008800000	-80.6000000000	100.2416864785	-94.5250959337	180.0000000000	5.5244500000	0.0000000000
3	MAX4S02	2217.0105100000	-80.6000000000	100.3788545074	-95.5250943866	180.0000000000	10.0963900000	0.0000000000
4	D501	2219.5498400000	-80.6000000000	100.8240109805	-98.0251008893	180.0000000000	10.0963900000	0.0000000000
5	MAV4S03	2221.5524300000	-80.6000000000	100.9999981512	-100.0173429801	180.0000000000	-0.0000100000	0.0000000000
6	D502	2221.9327800000	-80.6000000000	100.9999808048	-100.3976929801	180.0000000000	-0.0000100000	0.0000000000
7	IPM4S01	2221.9327800000	-80.6000000000	100.9999808048	-100.3976929801	180.0000000000	-0.0000100000	0.0000000000
8	D503	2222.1574300000	-80.6000000000	100.9999804556	-100.6223429801	180.0000000000	-0.0000100000	0.0000000000
9	MQA4S01	2222.4574300000	-80.6000000000	100.9999799332	-100.9223429801	180.0000000000	-0.0000100000	0.0000000000
10	D504	2222.6505800000	-80.6000000000	100.9999795955	-101.1154929801	180.0000000000	-0.0000100000	0.0000000000
11	MBC4S01H	2222.6505800100	-80.6000000000	100.9999795955	-101.1154929901	180.0000000000	-0.0000100000	0.0000000000
12	D505	2222.8466700100	-80.6000000000	100.9999792533	-101.3115829901	180.0000000000	-0.0000100000	0.0000000000
13	MBC4S01V	2222.8466700200	-80.6000000000	100.9999792533	-101.3115830001	180.0000000000	-0.0000100000	0.0000000000
14	D506	2223.3521300200	-80.6000000000	100.9999783711	-101.8170430001	180.0000000000	-0.0000100000	0.0000000000
15	ITV4S01	2223.3521300200	-80.6000000000	100.9999783711	-101.8170430001	180.0000000000	-0.0000100000	0.0000000000
16	D507	2226.4327800200	-80.6000000000	100.9999729944	-104.8976930001	180.0000000000	-0.0000100000	0.0000000000
17	IPM4S02	2226.4327800200	-80.6000000000	100.9999729944	-104.8976930001	180.0000000000	-0.0000100000	0.0000000000
18	D503	2226.6574300200	-80.6000000000	100.9999726202	-105.1223430001	180.0000000000	-0.0000100000	0.0000000000
19	MQA4S02	2226.9574300200	-80.6000000000	100.9999720719	-105.4223430001	180.0000000000	-0.0000100000	0.0000000000
20	D504	2227.1505800200	-80.6000000000	100.9999717411	-105.6154930001	180.0000000000	-0.0000100000	0.0000000000
21	MBC4S02H	2227.1505800300	-80.6000000000	100.9999717411	-105.6154930101	180.0000000000	-0.0000100000	0.0000000000
22	D505	2227.3466700300	-80.6000000000	100.9999713399	-105.8115830101	180.0000000000	-0.0000100000	0.0000000000
23	MBC4S02V	2227.3466700400	-80.6000000000	100.9999713399	-105.8115830201	180.0000000000	-0.0000100000	0.0000000000
24	D508	2228.6827800400	-80.6000000000	100.9999690677	-107.1476930201	180.0000000000	-0.0000100000	0.0000000000
25	IPM4S03	2228.6827800400	-80.6000000000	100.9999690677	-107.1476930201	180.0000000000	-0.0000100000	0.0000000000
26	D503	2228.9074300400	-80.6000000000	100.9999686875	-107.3723430201	180.0000000000	-0.0000100000	0.0000000000
27	MQA4S03	2229.2074300400	-80.6000000000	100.9999681852	-107.6723430201	180.0000000000	-0.0000100000	0.0000000000
28	D504	2229.4005800400	-80.6000000000	100.9999678144	-107.8654930201	180.0000000000	-0.0000100000	0.0000000000
29	MBC4S03H	2229.4005800500	-80.6000000000	100.9999678144	-107.8654930301	180.0000000000	-0.0000100000	0.0000000000
30	D505	2229.5966700500	-80.6000000000	100.9999674722	-108.0615830301	180.0000000000	-0.0000100000	0.0000000000
31	MBC4S03V	2229.5966700600	-80.6000000000	100.9999674722	-108.0615830401	180.0000000000	-0.0000100000	0.0000000000
32	D509	2230.1024300600	-80.6000000000	100.9999665899	-108.5673430401	180.0000000000	-0.0000100000	0.0000000000
33	MAF4S04	2231.1027200600	-80.6000000000	101.0415729703	-109.5664800484	180.0000000000	4.7656700000	0.0000000000
34	D510	2236.1200600600	-80.6000000000	101.4584173816	-114.5664741896	180.0000000000	4.7656700000	0.0000000000
35	MAF4S06	2237.1203500600	-80.6000000000	101.4999936930	-115.5656111979	180.0000000000	-0.0000100000	0.0000000000
36	D511	2238.8185500600	-80.6000000000	101.4999933966	-117.2638111979	180.0000000000	-0.0000100000	0.0000000000
37	MQA4S04	2239.1185500600	-80.6000000000	101.4999933442	-117.5638111979	180.0000000000	-0.0000100000	0.0000000000
38	D512	2240.0132500600	-80.6000000000	101.4999931880	-118.4585111979	180.0000000000	-0.0000100000	0.0000000000
39	ITV4S04	2240.0132500600	-80.6000000000	101.4999931880	-118.4585111979	180.0000000000	-0.0000100000	0.0000000000
40	D513	2240.1939000600	-80.6000000000	101.4999931565	-118.6391611979	180.0000000000	-0.0000100000	0.0000000000
41	IPM4S05	2240.1939000600	-80.6000000000	101.4999931565	-118.6391611979	180.0000000000	-0.0000100000	0.0000000000
42	D503	2240.4185500600	-80.6000000000	101.4999931173	-118.8638111979	180.0000000000	-0.0000100000	0.0000000000
43	MQA4S05	2240.7185500600	-80.6000000000	101.4999930649	-119.1638111979	180.0000000000	-0.0000100000	0.0000000000
44	D504	2240.9117000600	-80.6000000000	101.4999930312	-119.3569611979	180.0000000000	-0.0000100000	0.0000000000
45	MBC4S05H	2240.9117000700	-80.6000000000	101.4999930312	-119.3569612079	180.0000000000	-0.0000100000	0.0000000000
46	D505	2241.1077900700	-80.6000000000	101.4999929970	-119.5530512079	180.0000000000	-0.0000100000	0.0000000000
47	MBC4S05V	2241.1077900800	-80.6000000000	101.4999929970	-119.5530512179	180.0000000000	-0.0000100000	0.0000000000
48	D514	2242.0185500800	-80.6000000000	101.4999928381	-120.4638112179	180.0000000000	-0.0000100000	0.0000000000
49	MQA4S06	2242.3185500800	-80.6000000000	101.4999927857	-120.7638112179	180.0000000000	-0.0000100000	0.0000000000
50	D515	2246.5939000800	-80.6000000000	101.4999920395	-125.0391612179	180.0000000000	-0.0000100000	0.0000000000
51	IPM4S07	2246.5939000800	-80.6000000000	101.4999920395	-125.0391612179	180.0000000000	-0.0000100000	0.0000000000
52	D503	2246.8185500800	-80.6000000000	101.4999920003	-125.2638112179	180.0000000000	-0.0000100000	0.0000000000
53	MQA4S07	2247.1185500800	-80.6000000000	101.4999919479	-125.5638112179	180.0000000000	-0.0000100000	0.0000000000
54	D504	2247.3117000800	-80.6000000000	101.4999919142	-125.7569612179	180.0000000000	-0.0000100000	0.0000000000
55	MBC4S07H	2247.3117000900	-80.6000000000	101.4999919142	-125.7569612279	180.0000000000	-0.0000100000	0.0000000000
56	D505	2247.5077900900	-80.6000000000	101.4999918800	-125.9530512279	180.0000000000	-0.0000100000	0.0000000000
57	MBC4S07V	2247.5077901000	-80.6000000000	101.4999918800	-125.9530512379	180.0000000000	-0.0000100000	0.0000000000
58	D516	2249.7939001000	-80.6000000000	101.4999914810	-128.2391612379	180.0000000000	-0.0000100000	0.0000000000
59	IPM4S08	2249.7939001000	-80.6000000000	101.4999914810	-128.2391612379	180.0000000000	-0.0000100000	0.0000000000
60	D503	2250.0185501000	-80.6000000000	101.4999914418	-128.4638112379	180.0000000000	-0.0000100000	0.0000000000
61	MQA4S08	2250.3185501000	-80.6000000000	101.4999913894	-128.7638112379	180.0000000000	-0.0000100000	0.0000000000
62	D504	2250.5117001000	-80.6000000000	101.4999913557	-128.9569612379	180.0000000000	-0.0000100000	0.0000000000
63	MBC4S08H	2250.5117001100	-80.6000000000	101.4999913557	-128.9569612479	180.0000000000	-0.0000100000	0.0000000000
64	D505	2250.7077901100	-80.6000000000	101.4999913215	-129.1530512479	180.0000000000	-0.0000100000	0.0000000000
65	MBC4S08V	2250.7077901200	-80.6000000000	101.4999913215	-129.1530512579	180.0000000000	-0.0000100000	0.0000000000
66	D516	2252.9939001200	-80.6000000000	101.4999909225	-131.4391612579	180.0000000000	-0.0000100000	0.0000000000
67	IPM4S09	2252.9939001200	-80.6000000000	101.4999909225	-131.4391612579	180.0000000000	-0.0000100000	0.0000000000
68	D503	2253.2185501200	-80.6000000000	101.4999908833	-131.6638112579	180.0000000000	-0.0000100000	0.0000000000
69	MQA4S09	2253.5185501200	-80.6000000000	101.4999908309	-131.9638112579	180.0000000000	-0.0000100000	0.0000000000
70	D504	2253.7117001200	-80.6000000000	101.4999907972	-132.1569612579	180.0000000000	-0.0000100000	0.0000000000
71	MBC4S09H	2253.7117001300	-80.6000000000	101.4999907972	-132.1569612679	180.0000000000	-0.0000100000	0.0000000000
72	D505	2253.9077901300	-80.6000000000	101.4999907630	-132.3530512679	180.0000000000	-0.0000100000	0.0000000000
73	MBC4S09V	2253.9077901400	-80.6000000000	101.4999907630	-132.3530512779	180.0000000000	-0.0000100000	0.0000000000
74	D516	2256.1939001400	-80.6000000000	101.4999903640	-134.6391612779	180.0000000000	-0.0000100000	0.0000000000
75	IPM4S10	2256.1939001400	-80.6000000000	101.4999903640	-134.6391612779	180.0000000000	-0.0000100000	0.0000000000
76	D503	2256.4185501400	-80.6000000000	101.4999903248	-134.8638112779	180.0000000000	-0.0000100000	0.0000000000
77	MQA4S10	2256.7185501400	-80.6000000000	101.4999902724	-135.1638112779	180.0000000000	-0.0000100000	0.0000000000
78	D504	2256.9117001400	-80.6000000000	101.4999902387	-135.3569612779	180.0000000000	-0.0000100000	0.0000000000
79	MBC4S10H	2256.9117001500	-80.6000000000	101.4999902387	-135.3569612879	180.0000000000	-0.0000100000	0.0000000000
80	D505	2257.1077901500	-80.6000000000	101.4999902045	-135.5530512879	180.0000000000	-0.0000100000	0.0000000000
81	MBC4S10V	2257.1077901600	-80.6000000000	101.4999902045	-135.5530512979	180.0000000000	-0.0000100000	0.0000000000
82	D506	2257.6132501600	-80.6000000000	101.4999901163	-136.0585112979	180.00000000		

105	MBM4E02H	2290.02177442000	-80.6000015041	101.4999844617	-168.4570053779	-179.9999900000	-0.0000100000	0.0000000000
106	D505	2290.2178342000	-80.6000015384	101.4999844274	-168.6530953779	-179.9999900000	-0.0000100000	0.0000000000
107	MBM4E02V	2290.2178342100	-80.6000015384	101.4999844274	-168.6530953879	-179.9999900000	-0.0000100000	0.0000000000
108	D506	2290.7232942100	-80.6000016266	101.4999843392	-169.1585553879	-179.9999900000	-0.0000100000	0.0000000000
109	ITV4E02	2290.7232942100	-80.6000016266	101.4999843392	-169.1585553879	-179.9999900000	-0.0000100000	0.0000000000
110	D517	2305.8539942100	-80.6000042674	101.4999816984	-184.2892553879	-179.9999900000	-0.0000100000	0.0000000000
111	IPM4E03	2305.8539942100	-80.6000042674	101.4999816984	-184.2892553879	-179.9999900000	-0.0000100000	0.0000000000
112	D518	2306.1536442100	-80.6000043197	101.4999816461	-184.5889053879	-179.9999900000	-0.0000100000	0.0000000000
113	MQB4E03	2306.3036442100	-80.6000043459	101.4999816199	-184.7389053879	-179.9999900000	-0.0000100000	0.0000000000
114	D519	2306.5717942100	-80.6000043927	101.4999815731	-185.0070553879	-179.9999900000	-0.0000100000	0.0000000000
115	MBM4E03H	2306.5717942200	-80.6000043927	101.4999815731	-185.0070553979	-179.9999900000	-0.0000100000	0.0000000000
116	D505	2306.7678842200	-80.6000044269	101.4999815389	-185.2031453979	-179.9999900000	-0.0000100000	0.0000000000
117	MBM4E03V	2306.7678842300	-80.6000044269	101.4999815389	-185.2031454079	-179.9999900000	-0.0000100000	0.0000000000
118	D523	2322.4039842300	-80.6000071559	101.4999788099	-200.8392454079	-179.9999900000	-0.0000100000	0.0000000000
119	IPM4A01	2322.4039842300	-80.6000071559	101.4999788099	-200.8392454079	-179.9999900000	-0.0000100000	0.0000000000
120	D503	2322.6286342300	-80.6000071951	101.4999787707	-201.0638954079	-179.9999900000	-0.0000100000	0.0000000000
121	MQA4A01	2322.6286342300	-80.6000072475	101.4999787183	-201.3638954079	-179.9999900000	-0.0000100000	0.0000000000
122	D504	2323.1217842300	-80.6000072812	101.4999786846	-201.5570454079	-179.9999900000	-0.0000100000	0.0000000000
123	MBC4A01H	2323.1217842400	-80.6000072812	101.4999786846	-201.5570454179	-179.9999900000	-0.0000100000	0.0000000000
124	D505	2323.3178742400	-80.6000073154	101.4999786504	-201.7531354179	-179.9999900000	-0.0000100000	0.0000000000
125	MBC4A01V	2323.3178742500	-80.6000073154	101.4999786504	-201.7531354279	-179.9999900000	-0.0000100000	0.0000000000
126	D506	2323.8233342500	-80.6000074036	101.4999785622	-202.2585954279	-179.9999900000	-0.0000100000	0.0000000000
127	ITV4A01	2323.8233342500	-80.6000074036	101.4999785622	-202.2585954279	-179.9999900000	-0.0000100000	0.0000000000
128	D524	2325.8187042500	-80.6000077519	101.4999782139	-204.2539654279	-179.9999900000	-0.0000100000	0.0000000000
129	MBB4A01	2327.8195042500	-80.5018730936	101.4999778653	-206.2515529580	174.3750200000	-0.0000099518	-0.0000009802
130	D525	2329.5692542500	-80.3303682102	101.4999775614	-207.9928774934	174.3750200000	-0.0000099518	-0.0000009802
131	MBB4A02	2331.5700542500	-80.0369086251	101.4999772161	-209.9712272662	168.7500300000	-0.0000098079	-0.0000019509
132	D526	2334.2354742500	-79.5169123478	101.4999767598	-212.5854322406	168.7500300000	-0.0000098079	-0.0000019509
133	IPM4A02	2334.2354742500	-79.5169123478	101.4999767598	-212.5854322406	168.7500300000	-0.0000098079	-0.0000019509
134	D503	2334.4601242500	-79.4730854224	101.4999767213	-212.8057656768	168.7500300000	-0.0000098079	-0.0000019509
135	MQA4A02	2334.7601242500	-79.4145584798	101.4999766700	-213.1000012915	168.7500300000	-0.0000098079	-0.0000019509
136	D527	2335.1493642500	-79.3386217228	101.4999766034	-213.4817621938	168.7500300000	-0.0000098079	-0.0000019509
137	MBC4A02V	2335.1493642600	-79.3386217208	101.4999766034	-213.4817622037	168.7500300000	-0.0000098079	-0.0000019509
138	D528	2338.2207742600	-78.7394209321	101.4999760776	-216.4941562355	168.7500300000	-0.0000098079	-0.0000019509
139	IPM4A03	2338.2207742600	-78.7394209321	101.4999760776	-216.4941562355	168.7500300000	-0.0000098079	-0.0000019509
140	D503	2338.4454242600	-78.6955940067	101.4999760391	-216.7144896717	168.7500300000	-0.0000098079	-0.0000019509
141	MQA4A03	2338.7454242600	-78.6370670641	101.4999759878	-217.1981639929	168.7500300000	-0.0000098079	-0.0000019509
142	D504	2338.9385742600	-78.5993854676	101.4999759547	-217.1981639831	168.7500300000	-0.0000098079	-0.0000019509
143	MBC4A03H	2338.9385742700	-78.5993854657	101.4999759547	-217.1981639929	168.7500300000	-0.0000098079	-0.0000019509
144	D529	2339.3566642700	-78.5178203676	101.4999758832	-217.6082205535	168.7500300000	-0.0000098079	-0.0000019509
145	IHA4A03	2339.3566642700	-78.5178203676	101.4999758832	-217.6082205535	168.7500300000	-0.0000098079	-0.0000019509
146	D530	2342.2060642700	-77.9619314674	101.4999753954	-220.4028704225	168.7500300000	-0.0000098079	-0.0000019509
147	IPM4A04	2342.2060642700	-77.9619314674	101.4999753954	-220.4028704225	168.7500300000	-0.0000098079	-0.0000019509
148	D503	2342.4307142700	-77.9181045419	101.4999753569	-220.6232038587	168.7500300000	-0.0000098079	-0.0000019509
149	MQA4A04	2342.7307142700	-77.8595775993	101.4999753056	-220.9147394375	168.7500300000	-0.0000098079	-0.0000019509
150	D527	2343.1199542700	-77.7836408423	101.4999752390	-221.2992003758	168.7500300000	-0.0000098079	-0.0000019509
151	MBC4A04V	2343.1199542800	-77.7836408403	101.4999752390	-221.2992003856	168.7500300000	-0.0000098079	-0.0000019509
152	D531	2345.6207742800	-77.2957563455	101.4999748109	-223.7519680860	168.7500300000	-0.0000098079	-0.0000019509
153	MBB4A05	2347.6215742800	-76.8097979999	101.4999744723	-225.6202757994	163.1250400000	-0.0000095694	-0.0000029028
154	D525	2349.3713242800	-76.3018735548	101.4999741800	-227.3664342864	163.1250400000	-0.0000095694	-0.0000029028
155	MBB4A04	2351.3721242800	-75.6280964765	101.4999738514	-229.2495197334	157.5000500000	-0.0000092388	-0.0000038268
156	D526	2354.0375442800	-74.6080865512	101.4999734216	-231.7120476070	157.5000500000	-0.0000092388	-0.0000038268
157	IPM4A05	2354.0375442800	-74.6080865512	101.4999734216	-231.7120476070	157.5000500000	-0.0000092388	-0.0000038268
158	D503	2354.2621942800	-74.5221168992	101.4999733854	-231.9195972190	157.5000500000	-0.0000092388	-0.0000038268
159	MQA4A05	2354.5621942800	-74.4073121114	101.4999733370	-232.1967611790	157.5000500000	-0.0000092388	-0.0000038268
160	D504	2354.7553442800	-74.3333969621	101.4999733058	-232.3752085572	157.5000500000	-0.0000092388	-0.0000038268
161	MBC4A05H	2354.7553442900	-74.3333969583	101.4999733058	-232.3752085844	157.5000500000	-0.0000092388	-0.0000038268
162	D532	2357.4522642900	-73.3013325302	101.4999728710	-234.8668386739	157.5000500000	-0.0000092388	-0.0000038268
163	MBB4A06	2359.4530642900	-72.4462255378	101.4999725554	-236.6748149965	151.8750600000	-0.0000088192	-0.0000047140
164	D525	2361.2028142900	-71.6214007135	101.4999722861	-238.2179575926	151.8750600000	-0.0000088192	-0.0000047140
165	MBB4A06	2363.2031642900	-70.5931989254	101.4999719867	-239.9334130524	146.2500700000	-0.0000083147	-0.0000055557
166	D526	2365.8690342900	-69.1123736225	101.4999715999	-242.1496305956	146.2500700000	-0.0000083147	-0.0000055557
167	IPM4A06	2365.8690342900	-69.1123736225	101.4999715999	-242.1496305956	146.2500700000	-0.0000083147	-0.0000055557
168	D503	2366.0936842900	-68.9875649979	101.4999715673	-242.3364203965	146.2500700000	-0.0000083147	-0.0000055557
169	MQA4A06	2366.3936842900	-68.8208942327	101.4999715237	-242.5858614838	146.2500700000	-0.0000083147	-0.0000055557
170	D527	2366.7829242900	-68.6046444706	101.4999714672	-242.9095029799	146.2500700000	-0.0000083147	-0.0000055557
171	MBC4A06V	2366.7829243000	-68.6046444651	101.4999714672	-242.9095029882	146.2500700000	-0.0000083147	-0.0000055557
172	D528	2369.8543343000	-66.8982636157	101.4999710215	-245.4632891548	146.2500700000	-0.0000083147	-0.0000055557
173	IPM4A07	2369.8543343000	-66.8982636157	101.4999710215	-245.4632891548	146.2500700000	-0.0000083147	-0.0000055557
174	D503	2370.0789843000	-66.7734549910	101.4999709889	-245.6500789557	146.2500700000	-0.0000083147	-0.0000055557
175	MQA4A07	2370.3789843000	-66.6067842259	101.4999709454	-245.8995200430	146.2500700000	-0.0000083147	-0.0000055557
176	D504	2370.5721343000	-66.4994760316	101.4999709174	-246.0601185298	146.2500700000	-0.0000083147	-0.0000055557
177	MBC4A07H	2370.5721343100	-66.4994760260	101.4999709174	-246.0601185381	146.2500700000	-0.0000083147	-0.0000055557
178	D533	2373.8396343100	-64.6841536089	101.4999704432	-248.7769477141	146.2500700000	-0.0000083147	-0.0000055557
179	IPM4A08	2373.8396343100	-64.6841536089	101.4999704432	-248.7769477141	146.2500700000	-0.0000083147	-0.0000055557
180	D503	2374.0642843100	-64.5593444984	101.4999704106	-248.9637375150	146.2500700000	-0.0000083147	-0.0000055557
181	MQA4A08	2374.3642843100	-64.3926742191	101.4999703671	-249.2131786023	146.2500700000	-0.0000083147	-0.0000055557
182	D527	2374.7535243100	-64.1764244570	101.4999703106	-249.5368200984	146.2500700000	-0.0000083147	-0.0000055557
183	MBC4A08V	2374.7535243200	-64.1764244514	101.4999703106	-249.5368201067	146.2500700000	-0.0000083147	-0.0000055557
184	D534	2377.2543543200	-62.7870402860	101.4999699476	-251.6161859547	146.2500700000	-0.0000083147	-0.0000055557
185	MBB4A07	2379.2551543200	-61.5956458124	101.4999696673	-253.2225998366	140.6250800000	-0.0000077301	-0.0000063439
186	D525</							

209	D504	2402.2057143400	-44.2756297993	101.4999670716	-268.0946848740	123.7501100000	-0.0000055557	-0.0000083147
210	MBC4A11H	2402.2057143500	-44.2756297910	101.4999670716	-268.0946848796	123.7501100000	-0.0000055557	-0.0000083147
211	D536	2405.6978543500	-41.3720252239	101.4999667330	-270.0348194876	123.7501100000	-0.0000055557	-0.0000083147
212	IPM4A12	2405.6978543500	-41.3720252239	101.4999667330	-270.0348194876	123.7501100000	-0.0000055557	-0.0000083147
213	MQA4A12	2405.9978543500	-41.1225846602	101.4999667039	-270.2014910364	123.7501100000	-0.0000055557	-0.0000083147
214	D527	2406.3870943600	-40.7989438435	101.4999666662	-270.4177418153	123.7501100000	-0.0000055557	-0.0000083147
215	MBC4A12V	2406.3870943600	-40.7989438352	101.4999666662	-270.4177418208	123.7501100000	-0.0000055557	-0.0000083147
216	D531	2408.8879143600	-38.7195906668	101.4999664237	-271.8071269300	123.7501100000	-0.0000055557	-0.0000083147
217	MBB4A11	2410.8887143600	-37.0041384371	101.4999662442	-272.8353341404	118.1251200000	-0.0000047140	-0.0000088192
218	D525	2412.6384643600	-35.4609984324	101.4999661002	-273.6601638126	118.1251200000	-0.0000047140	-0.0000088192
219	MBB4A12	2414.6392643600	-33.6530247962	101.4999659510	-274.5152764850	112.5001300000	-0.0000038269	-0.0000092388
220	D526	2417.3046843600	-31.1905001269	101.4999657730	-275.5352941466	112.5001300000	-0.0000038269	-0.0000092388
221	IPM4A13	2417.3046843600	-31.1905001269	101.4999657730	-275.5352941466	112.5001300000	-0.0000038269	-0.0000092388
222	D503	2417.5293343600	-30.9829507850	101.4999657580	-275.6212644506	112.5001300000	-0.0000038269	-0.0000092388
223	MQA4A13	2417.8293343600	-30.7057871858	101.4999657379	-275.7360701092	112.5001300000	-0.0000038269	-0.0000092388
224	D504	2418.0224843600	-30.5273400218	101.4999657250	-275.8099858190	112.5001300000	-0.0000038269	-0.0000092388
225	MBC4A13H	2418.0224843700	-30.5273400125	101.4999657250	-275.8099858228	112.5001300000	-0.0000038269	-0.0000092388
226	D535	2418.7240343700	-29.8791929356	101.4999656782	-276.0784588554	112.5001300000	-0.0000038269	-0.0000092388
227	D524	2420.7194043700	-28.0357131654	101.4999655449	-276.8420580786	112.5001300000	-0.0000038269	-0.0000092388
228	MBB4A13	2422.7202043700	-26.1526298352	101.4999654273	-277.5158410728	106.8751400000	-0.0000029029	-0.0000095694
229	D525	2424.4699543700	-24.4782247239	101.4999653387	-278.0237707781	106.8751400000	-0.0000029029	-0.0000095694
230	MBB4A14	2426.4707543700	-22.5381667571	101.4999652538	-278.5097352186	101.2501500000	-0.0000019509	-0.0000098078
231	D538	2429.3608243700	-19.7036301179	101.4999651554	-279.0735673264	101.2501500000	-0.0000019509	-0.0000098078
232	IPM4A14	2429.3608243700	-19.7036301179	101.4999651554	-279.0735673264	101.2501500000	-0.0000019509	-0.0000098078
233	MQA4A14	2429.6608243700	-19.4093946870	101.4999651452	-279.1320951933	101.2501500000	-0.0000019509	-0.0000098078
234	D527	2430.0500643700	-19.0276340233	101.4999651320	-279.2080331497	101.2501500000	-0.0000019509	-0.0000098078
235	MBC4A14V	2430.0500643800	-19.0276340135	101.4999651320	-279.2080331516	101.2501500000	-0.0000019509	-0.0000098078
236	D528	2433.1214743800	-16.0152418641	101.4999650274	-279.8072434040	101.2501500000	-0.0000019509	-0.0000098078
237	D503	2433.3461243800	-15.7949085656	101.4999650197	-279.8510710217	101.2501500000	-0.0000019509	-0.0000098078
238	MQA4A15	2433.6461243800	-15.5006731347	101.4999650095	-279.9095988886	101.2501500000	-0.0000019509	-0.0000098078
239	D504	2433.8392743800	-15.3112345564	101.4999650029	-279.9472810802	101.2501500000	-0.0000019509	-0.0000098078
240	MBC4A15H	2433.8392743900	-15.3112345466	101.4999650029	-279.9472810822	101.2501500000	-0.0000019509	-0.0000098078
241	D533	2437.1067743900	-12.1065203118	101.4999648917	-280.5847470993	101.2501500000	-0.0000019509	-0.0000098078
242	IPM4A16	2437.1067743900	-12.1065203118	101.4999648917	-280.5847470993	101.2501500000	-0.0000019509	-0.0000098078
243	D503	2437.3314243900	-11.8861870133	101.4999648840	-280.6285747170	101.2501500000	-0.0000019509	-0.0000098078
244	MQA4A16	2437.6314243900	-11.5919515824	101.4999648738	-280.6871025839	101.2501500000	-0.0000019509	-0.0000098078
245	D527	2438.0206643900	-11.2101909186	101.4999648606	-280.7630405403	101.2501500000	-0.0000019509	-0.0000098078
246	MBC4A16V	2438.0206644000	-11.2101909088	101.4999648606	-280.7630405422	101.2501500000	-0.0000019509	-0.0000098078
247	D534	2440.5214944000	-8.7574149333	101.4999647754	-281.75209346936	101.2501500000	-0.0000019509	-0.0000098078
248	MBB4A15	2442.5222944000	-6.7790660825	101.4999647242	-281.5444004938	95.6251600000	-0.0000009802	-0.0000099518
249	D525	2444.2720444000	-5.0377420859	101.4999646943	-281.7159108478	95.6251600000	-0.0000009802	-0.0000099518
250	MBB4A16	2446.2728444000	-3.0401548641	101.4999646771	-281.8140517816	90.0001700000	0.0000000000	-0.0000100000
251	D526	2448.9382644000	-0.3747348641	101.4999646771	-281.8140596901	90.0001700000	0.0000000000	-0.0000100000
252	IPM4A17	2448.9382644000	-0.3747348641	101.4999646771	-281.8140596901	90.0001700000	0.0000000000	-0.0000100000
253	D503	2449.1629144000	-0.1500848641	101.4999646771	-281.8140603567	90.0001700000	0.0000000000	-0.0000100000
254	MQA4A17	2449.4629144000	0.1499151359	101.4999646771	-281.8140612468	90.0001700000	0.0000000000	-0.0000100000
255	D504	2449.6506444000	0.3430651359	101.4999646771	-281.8140618199	90.0001700000	0.0000000000	-0.0000100000
256	MBC4A17H	2449.6506444100	0.3430651459	101.4999646771	-281.8140618199	90.0001700000	0.0000000000	-0.0000100000
257	D535	2450.3576144100	1.0446151459	101.4999646771	-281.8140639014	90.0001700000	0.0000000000	-0.0000100000
258	ITV4A17	2450.3576144100	1.0446151459	101.4999646771	-281.8140639014	90.0001700000	0.0000000000	-0.0000100000
259	D524	2452.3529844100	3.0399851459	101.4999646771	-281.8140698218	90.0001700000	0.0000000000	-0.0000100000
260	MBB4A17	2454.3537844100	5.0375729501	101.4999646942	-281.7159407418	84.3751800000	0.0000009801	-0.0000099519
261	D525	2456.1035344100	6.7788979643	101.4999647242	-281.5444407211	84.3751800000	0.0000009801	-0.0000099519
262	MBB4A18	2458.1043344100	8.7572485567	101.4999647754	-281.2500986606	78.7501900000	0.0000019509	-0.0000098079
263	D526	2460.7697544100	11.3714549831	101.4999648662	-280.7309976836	78.7501900000	0.0000019509	-0.0000098079
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265	D503	2460.9944044100	11.5917885417	101.4999648738	-280.6871713734	78.7501900000	0.0000019509	-0.0000098079
266	MQA4A18	2461.2944044100	11.8860243199	101.4999648840	-280.6286452525	78.7501900000	0.0000019509	-0.0000098079
267	D527	2461.6836444100	12.2677854342	101.4999648973	-280.5527095596	78.7501900000	0.0000019509	-0.0000098079
268	MBC4A18V	2461.6836444200	12.2677854421	101.4999648973	-280.5527095596	78.7501900000	0.0000019509	-0.0000098079
269	D528	2464.7505044200	15.2801811492	101.4999650018	-279.9535171831	78.7501900000	0.0000019509	-0.0000098079
270	D503	2464.9797044200	15.5005147077	101.4999650095	-279.9096908729	78.7501900000	0.0000019509	-0.0000098079
271	MQA4A19	2465.2797044200	15.7947504859	101.4999650197	-279.8511647520	78.7501900000	0.0000019509	-0.0000098079
272	D504	2465.4728544200	15.9841892878	101.4999650263	-279.8134836845	78.7501900000	0.0000019509	-0.0000098079
273	MBC4A19H	2465.4728544300	15.9841892976	101.4999650263	-279.8134836826	78.7501900000	0.0000019509	-0.0000098079
274	D536	2468.9649944300	19.4092310659	101.4999651452	-279.1322123233	78.7501900000	0.0000019509	-0.0000098079
275	IPM4A20	2468.9649944300	19.4092310659	101.4999651452	-279.1322123233	78.7501900000	0.0000019509	-0.0000098079
276	MQA4A20	2469.2649944300	19.7034668441	101.4999651554	-279.0736862024	78.7501900000	0.0000019509	-0.0000098079
277	D527	2469.6542344300	20.0852279585	101.4999651687	-278.9977505115	78.7501900000	0.0000019509	-0.0000098079
278	MBC4A20V	2469.6542344400	20.0852279683	101.4999651687	-278.9977505095	78.7501900000	0.0000019509	-0.0000098079
279	D531	2472.1550544400	22.5379970311	101.4999652538	-278.5098728641	78.7501900000	0.0000019509	-0.0000098079
280	MBB4A19	2474.1558544400	24.4780578816	101.4999653386	-278.0239199362	73.1252000000	0.0000029028	-0.0000095694
281	D525	2475.9056044400	26.1524660070	101.4999654273	-277.5160001669	73.1252000000	0.0000029028	-0.0000095694
282	MBB4A20	2477.9064044400	28.0355533354	101.4999655449	-276.8422283472	67.5002100000	0.0000038268	-0.0000092388
283	D526	2480.5718244400	30.4980840575	101.4999657229	-275.8222252985	67.5002100000	0.0000038268	-0.0000092388
284	IPM4A21	2480.5718244400	30.4980840575	101.4999657229	-275.8222252985	67.5002100000	0.0000038268	-0.0000092388
285	D503	2480.7964744400	30.7056339096	101.4999657379	-275.7362562261	67.5002100000	0.0000038268	-0.0000092388
286	MQA4A21	2481.0964744400	30.9827981901	101.4999657579	-275.6214522123	67.5002100000	0.0000038268	-0.0000092388
287	D504	2481.2896244400	31.1612457927	101.4999657708	-275.5475375614	67.5002100000	0.0000038268	-0.0000092388
288	MBC4A21H	2481.2896244500	31.1612458020	101.4999657708	-275.5475375575	67.5002100000	0.0000038268	-0.0000092388
289	D535	2481.9911744500	31.8093944720	101.4999658177	-275.2790683712	67.5002100000	0.0000038268	-0.0000092388
290	D524	2483.9865444500	33.6528787735	101.4999659510	-274.515			

313	MBB4A24	2509.5399844800	54.8431577808	101.4999684221	-260.3567113637	45.0002500000	0.0000070710	-0.0000070711
314	D526	2512.2054044800	56.7279025612	101.4999687511	-258.4719830307	45.0002500000	0.0000070710	-0.0000070711
315	IPM4A25	2512.2054044800	56.7279025612	101.4999687511	-258.4719830307	45.0002500000	0.0000070710	-0.0000070711
316	D503	2512.4300544800	56.8867547927	101.4999687788	-258.3131321854	45.0002500000	0.0000070710	-0.0000070711
317	MQA4A25	2512.7300544800	57.0988877526	101.4999688158	-258.1010010767	45.0002500000	0.0000070710	-0.0000070711
318	D504	2512.9232044800	57.2354660234	101.4999688397	-257.9644239978	45.0002500000	0.0000070710	-0.0000070711
319	MBC4A25H	2512.9232044800	57.2354660304	101.4999688397	-257.9644239908	45.0002500000	0.0000070710	-0.0000070711
320	D535	2513.6247544900	57.7315389573	101.4999689263	-257.4683553929	45.0002500000	0.0000070710	-0.0000070711
321	ITV4A25	2513.6247544900	57.7315389573	101.4999689263	-257.4683553929	45.0002500000	0.0000070710	-0.0000070711
322	D524	2515.6201244900	59.1424847716	101.4999691725	-256.0574218914	45.0002500000	0.0000070710	-0.0000070711
323	MBB4A25	2517.6209244900	60.4856069852	101.4999694311	-254.5755281465	39.3752600000	0.0000077301	-0.0000063440
324	D525	2519.3706744900	61.5956427720	101.4999696672	-253.2229581429	39.3752600000	0.0000077301	-0.0000063440
325	MBB4A26	2521.3714744900	62.7870467782	101.4999699476	-251.6165513309	33.7502700000	0.0000083147	-0.0000055557
326	D526	2524.0368944900	64.2678852324	101.4999703344	-249.4003425752	33.7502700000	0.0000083147	-0.0000055557
327	IPM4A26	2524.0368944900	64.2678852324	101.4999703344	-249.4003425752	33.7502700000	0.0000083147	-0.0000055557
328	D503	2524.2615444900	64.3926949654	101.4999703670	-249.2133553549	33.7502700000	0.0000083147	-0.0000055557
329	MQA4A26	2524.5615444900	64.5593672108	101.4999704105	-248.9641134167	33.7502700000	0.0000083147	-0.0000055557
330	D527	2524.9507844900	64.7756188934	101.4999704670	-248.6404732038	33.7502700000	0.0000083147	-0.0000055557
331	MBC4A26V	2524.9507844900	64.7756188934	101.4999704670	-248.6404731955	33.7502700000	0.0000083147	-0.0000055557
332	D528	2528.0221945000	66.4820149028	101.4999709127	-246.0866971548	33.7502700000	0.0000083147	-0.0000055557
333	D503	2528.2468445000	66.6068246359	101.4999709453	-245.8999080945	33.7502700000	0.0000083147	-0.0000055557
334	MQA4A27	2528.5468445000	66.7734968812	101.4999709889	-245.6504679962	33.7502700000	0.0000083147	-0.0000055557
335	D504	2528.7399945000	66.8808060285	101.4999710169	-245.4898701463	33.7502700000	0.0000083147	-0.0000055557
336	MBC4A27H	2528.7399945000	66.8808060341	101.4999710169	-245.4898701380	33.7502700000	0.0000083147	-0.0000055557
337	D536	2532.2321345100	68.8209487505	101.4999715237	-242.5862709888	33.7502700000	0.0000083147	-0.0000055557
338	IPM4A28	2532.2321345100	68.8209487505	101.4999715237	-242.5862709888	33.7502700000	0.0000083147	-0.0000055557
339	MQA4A28	2532.5321345100	68.9876209959	101.4999715672	-242.3368308905	33.7502700000	0.0000083147	-0.0000055557
340	D527	2532.9213745100	69.2038726785	101.4999716237	-242.0131906776	33.7502700000	0.0000083147	-0.0000055557
341	MBC4A28V	2532.9213745200	69.2038726841	101.4999716237	-242.0131906693	33.7502700000	0.0000083147	-0.0000055557
342	D531	2535.4221945200	70.5932636329	101.4999719866	-239.9338413808	33.7502700000	0.0000083147	-0.0000055557
343	MBB4A27	2537.4229945200	71.6214756007	101.4999722860	-238.2183920225	28.1252800000	0.0000088192	-0.0000047140
344	D525	2539.1727445200	72.4463095822	101.4999725553	-236.6752543211	28.1252800000	0.0000088192	-0.0000047140
345	MBB4A28	2541.1735445200	73.3014273034	101.4999728709	-234.8672830728	22.5002900000	0.0000092388	-0.0000038269
346	D526	2543.8389645200	74.3214518417	101.4999733007	-232.4047612521	22.5002900000	0.0000092388	-0.0000038269
347	IPM4A29	2543.8389645200	74.3214518417	101.4999733007	-232.4047612521	22.5002900000	0.0000092388	-0.0000038269
348	D503	2544.0636145200	74.4074227252	101.4999733369	-232.1972121502	22.5002900000	0.0000092388	-0.0000038269
349	MQA4A29	2544.3636145200	74.5222291578	101.4999733853	-231.9200488715	22.5002900000	0.0000092388	-0.0000038269
350	D504	2544.5567645200	74.5961453660	101.4999734164	-231.7416019140	22.5002900000	0.0000092388	-0.0000038269
351	MBC4A29H	2544.5567645300	74.5961453698	101.4999734164	-231.7416019047	22.5002900000	0.0000092388	-0.0000038269
352	D532	2547.2536845300	75.6282245835	101.4999738513	-229.2499779397	22.5002900000	0.0000092388	-0.0000038269
353	MBB4A29	2549.2544845300	76.3020128362	101.4999741799	-227.3668964911	16.8753000000	0.0000095694	-0.0000029029
354	D525	2551.0042345300	76.8099472174	101.4999744722	-225.6924927981	16.8753000000	0.0000095694	-0.0000029029
355	MBB4A30	2553.0050345300	77.2959170756	101.4999748108	-223.7524361885	11.2503100000	0.0000098078	-0.0000019510
356	D538	2555.8951045300	77.8597570988	101.4999753055	-220.9179011238	11.2503100000	0.0000098078	-0.0000019510
357	IPM4A30	2555.8951045300	77.8597570988	101.4999753055	-220.9179011238	11.2503100000	0.0000098078	-0.0000019510
358	MQA4A30	2556.1951045300	77.9182857874	101.4999753569	-220.6236658563	11.2503100000	0.0000098078	-0.0000019510
359	D527	2556.5843445300	77.9942248099	101.4999754235	-220.2419054046	11.2503100000	0.0000098078	-0.0000019510
360	MBC4A30V	2556.5843445400	77.9942248118	101.4999754235	-220.2419053948	11.2503100000	0.0000098078	-0.0000019510
361	D528	2559.6557545400	78.5934434764	101.4999759493	-217.2295149188	11.2503100000	0.0000098078	-0.0000019510
362	D503	2559.8804045400	78.6372717093	101.4999759877	-217.0091817427	11.2503100000	0.0000098078	-0.0000019510
363	MQA4A31	2560.1804045400	78.6958003979	101.4999760391	-216.7149464752	11.2503100000	0.0000098078	-0.0000019510
364	D504	2560.3735545400	78.7334831186	101.4999760721	-216.5255080022	11.2503100000	0.0000098078	-0.0000019510
365	MBC4A31H	2560.3735545500	78.7334831205	101.4999760721	-216.5255079924	11.2503100000	0.0000098078	-0.0000019510
366	D533	2563.6410545500	79.3709580869	101.4999766315	-213.3207955377	11.2503100000	0.0000098078	-0.0000019510
367	IPM4A32	2563.6410545500	79.3709580869	101.4999766315	-213.3207955377	11.2503100000	0.0000098078	-0.0000019510
368	D503	2563.8657045500	79.4147863198	101.4999766699	-213.1004623616	11.2503100000	0.0000098078	-0.0000019510
369	MQA4A32	2564.1657045500	79.4733150084	101.4999767213	-212.8062270941	11.2503100000	0.0000098078	-0.0000019510
370	D537	2567.0557745500	80.0371550317	101.4999772160	-209.9716920294	11.2503100000	0.0000098078	-0.0000019510
371	MBB4A31	2569.0565745500	80.3306263565	101.4999775613	-207.9933439981	5.6253200000	0.0000099518	-0.0000009802
372	D525	2570.8063245500	80.5021415732	101.4999778652	-206.2520204805	5.6253200000	0.0000099518	-0.0000009802
373	MBB4A32	2572.8071245500	80.6002880853	101.4999782138	-204.2544335327	0.0003300000	0.0000100000	-0.0000000001
374	D526	2575.4725445500	80.6003034371	101.4999786790	-201.5890135328	0.0003300000	0.0000100000	-0.0000000001
375	IPM4R01	2575.4725445500	80.6003034371	101.4999786790	-201.5890135328	0.0003300000	0.0000100000	-0.0000000001
376	D503	2575.6971945500	80.6003047310	101.4999787182	-201.3643635328	0.0003300000	0.0000100000	-0.0000000001
377	MQA4R01	2575.9971945500	80.6003064588	101.4999787706	-201.0643635328	0.0003300000	0.0000100000	-0.0000000001
378	D504	2576.1903445500	80.6003075713	101.4999788043	-200.8712135328	0.0003300000	0.0000100000	-0.0000000001
379	MBC4R01H	2576.1903445600	80.6003075713	101.4999788043	-200.8712135328	0.0003300000	0.0000100000	-0.0000000001
380	D535	2576.8918945600	80.6003116119	101.4999789268	-200.1696635228	0.0003300000	0.0000100000	-0.0000000001
381	ITV4R01	2576.8918945600	80.6003116119	101.4999789268	-200.1696635228	0.0003300000	0.0000100000	-0.0000000001
382	D539	2578.6725445600	80.6003218677	101.4999792375	-198.3890135228	0.0003300000	0.0000100000	-0.0000000001
383	IPM4R02	2578.6725445600	80.6003218677	101.4999792375	-198.3890135228	0.0003300000	0.0000100000	-0.0000000001
384	D503	2578.8971945600	80.6003231616	101.4999792767	-198.1643635228	0.0003300000	0.0000100000	-0.0000000001
385	MQA4R02	2579.1971945600	80.6003248895	101.4999793291	-197.8643635228	0.0003300000	0.0000100000	-0.0000000001
386	D504	2579.3903445600	80.6003260020	101.4999793628	-197.6712135228	0.0003300000	0.0000100000	-0.0000000001
387	MBC4R02H	2579.3903445700	80.6003260020	101.4999793628	-197.6712135128	0.0003300000	0.0000100000	-0.0000000001
388	D505	2579.5864345700	80.6003271314	101.4999793970	-197.4751235128	0.0003300000	0.0000100000	-0.0000000001
389	MBC4R02V	2579.5864345800	80.6003271314	101.4999793970	-197.4751235028	0.0003300000	0.0000100000	-0.0000000001
390	D516	2581.8725445800	80.6003402984	101.4999797960	-195.1890135029	0.0003300000	0.0000100000	-0.0000000001
391	IPM4R03	2581.8725445800	80.6003402984	101.4999797960	-195.1890135029	0.0003300000	0.0000100000	-0.0000000001
392	D503	2582.0971945800	80.6003415923	101.4999798353	-194.9643635029	0.0003300000	0.0000100000	-0.0000000001
393	MQA4R03	2582.3971945800	80.6003433202	101.4999798876	-194.6643635029	0.0003300000	0.0000100000	-0.0000000001
394	D504	2582.5903445800	80.6003444326	101.4999799213	-194.4712135029	0.0003300000	0.000	

417	MBC4R07V	2592.3864346300	80.6004008541	101.4999816311	-184.6751234530	0.0003300000	0.0000100000	-0.0000000001
418	D543	2592.7953946300	80.6004032095	101.4999817024	-184.2661634530	0.0003300000	0.0000100000	-0.0000000001
419	MAF4R01	2593.7956846300	80.6004089641	101.4584053911	-183.2670264448	0.0003300000	-4.7656700000	-0.0000000001
420	D544	2598.8130346300	80.6004377621	101.0415601490	-178.2670223382	0.0003300000	-4.7656700000	-0.0000000001
421	MAF4R03	2599.8133246300	80.6004435167	100.9999838376	-177.2678853300	0.0003300000	0.0000100000	-0.0000000001
422	D545	2600.1863066300	80.6004456649	100.9999839027	-176.8949033300	0.0003300000	0.0000100000	-0.0000000001
423	IPM4R08	2600.1863066300	80.6004456649	100.9999839027	-176.8949033300	0.0003300000	0.0000100000	-0.0000000001
424	D503	2600.4109566300	80.6004469588	100.9999839419	-176.6702533300	0.0003300000	0.0000100000	-0.0000000001
425	MQA4R08	2600.7109566300	80.6004486867	100.9999839943	-176.3702533300	0.0003300000	0.0000100000	-0.0000000001
426	D504	2600.9041066300	80.6004497992	100.9999840280	-176.1771033300	0.0003300000	0.0000100000	-0.0000000001
427	MBC4R08H	2600.9041066300	80.6004497992	100.9999840280	-176.1771033300	0.0003300000	0.0000100000	-0.0000000001
428	D505	2601.1001966300	80.6004509286	100.9999840622	-175.9810133200	0.0003300000	0.0000100000	-0.0000000001
429	MBC4R08V	2601.1001966300	80.6004509286	100.9999840622	-175.9810133200	0.0003300000	0.0000100000	-0.0000000001
430	D508	2602.4363066300	80.6004586240	100.9999842954	-174.6449033100	0.0003300000	0.0000100000	-0.0000000001
431	IPM4R09	2602.4363066300	80.6004586240	100.9999842954	-174.6449033100	0.0003300000	0.0000100000	-0.0000000001
432	D503	2602.6609566300	80.6004599179	100.9999843346	-174.4202533101	0.0003300000	0.0000100000	-0.0000000001
433	MQA4R09	2602.9609566300	80.6004616458	100.9999843870	-174.1202533101	0.0003300000	0.0000100000	-0.0000000001
434	D504	2603.1541066300	80.6004627582	100.9999844207	-173.9271033101	0.0003300000	0.0000100000	-0.0000000001
435	MBC4R09H	2603.1541066300	80.6004627582	100.9999844207	-173.9271033101	0.0003300000	0.0000100000	-0.0000000001
436	D546	2606.9363066300	80.6004845421	100.9999850808	-170.1449033001	0.0003300000	0.0000100000	-0.0000000001
437	IPM4R10	2606.9363066300	80.6004845421	100.9999850808	-170.1449033001	0.0003300000	0.0000100000	-0.0000000001
438	D503	2607.1609566300	80.6004858360	100.9999851200	-169.9202533001	0.0003300000	0.0000100000	-0.0000000001
439	MQA4R10	2607.4609566300	80.6004875639	100.9999851724	-169.6202533001	0.0003300000	0.0000100000	-0.0000000001
440	D504	2607.6541066300	80.6004886764	100.9999852061	-169.4271033001	0.0003300000	0.0000100000	-0.0000000001
441	MBC4R10H	2607.6541066300	80.6004886764	100.9999852061	-169.4271032901	0.0003300000	0.0000100000	-0.0000000001
442	D505	2607.8501966300	80.6004898058	100.9999852403	-169.2310132901	0.0003300000	0.0000100000	-0.0000000001
443	MBC4R10V	2607.8501966300	80.6004898058	100.9999852403	-169.2310132801	0.0003300000	0.0000100000	-0.0000000001
444	D547	2608.3633066300	80.6004927611	100.9999853299	-168.7179032801	0.0003300000	0.0000100000	-0.0000000001
445	MAV4R04	2610.3658966300	80.6005042356	100.8239981591	-166.7256611993	0.0003300000	-10.0963900000	-0.0000000001
446	D548	2612.9052266300	80.6005186346	100.3788416861	-164.2256546867	0.0003300000	-10.0963900000	-0.0000000001
447	MAX4R05	2613.9148566300	80.6005243941	100.2416736572	-163.2256562338	0.0003300000	-5.5244500000	-0.0000000001
448	D549	2615.9241866300	80.6005359133	100.0482344289	-161.2256591554	0.0003300000	-5.5244500000	-0.0000000001
449	MAW4R06	2616.9257366300	80.6005416729	99.9999871787	-160.2256603002	0.0003300000	0.0000000000	-0.0000000001

1
STOP

Arc5.outd

LDIMAT VERSION 2.9 PROD
ODATE AND TIME OF THIS RUN: 12-JUN-2007 12:48:20

XSIF Parser Version 2.1
Version Date: 01-JAN-2004
Run: 12-JUN-2007 12:48:20
XSIF Parser developed by NLC Department,
Stanford Linear Accelerator Center.

UTRANSPORT

TITLE

CONVERTED FROM .././././OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//ARC5.OPT

5
MAQ5S01: SBEND, L=1.0008, ANGLE=3.97641, K1=-0, &
E1=0, E2=3.97641, HGAP=0.01905, &
HGAPX=0.01905, &
FINT=0.5, TILT=90
10
D30077: DRIFT, L=1.00242
MAS5S02: SBEND, L=1.00536, ANGLE=3.6876, K1=-0, &
E1=3.97641, E2=7.66402, HGAP=0.023749, &
HGAPX=0.023749, &
FINT=0.5, TILT=90
15
D30078: DRIFT, L=3.32672
MAU5S03: SBEND, L=2.00149, ANGLE=-7.66401, K1=-0, &
E1=-3.83201, E2=-3.83201, HGAP=0.012954, &
HGAPX=0.012954, &
FINT=0.5, TILT=90
20
D602A: DRIFT, L=0.07934
IPM5S01: MONITOR, L=0
D603: DRIFT, L=0.22465
MQA5S01: QUADRUPOLE, L=0.3, K1=-0.538653, TILT=0
D604: DRIFT, L=0.19315
25
MBC5S01H: GKICK, L=1E-08, DXP=0, DYP=0
D605: DRIFT, L=0.19609
MBC5S01V: GKICK, L=1E-08, DXP=0, DYP=0
D606: DRIFT, L=0.50546
ITV5S01: MONITOR, L=0
30
D607: DRIFT, L=4.46065
IPM5S02: MONITOR, L=0
MQA5S02: QUADRUPOLE, L=0.3, K1=1.09083, TILT=0
D608: DRIFT, L=0.55485
MBC5S02H: GKICK, L=1E-08, DXP=0, DYP=0
35
D609: DRIFT, L=1.4405
IPM5S03: MONITOR, L=0
MQA5S03: QUADRUPOLE, L=0.3, K1=-1.70002, TILT=0
MBC5S03H: GKICK, L=1E-08, DXP=0, DYP=0
D610: DRIFT, L=0.43186
40
MAC5S04: SBEND, L=1.0001, ANGLE=2.75513, K1=-0, &
E1=1.37757, E2=1.37757, HGAP=0.012954, &
HGAPX=0.012954, &
FINT=0.5, TILT=90
D30083: DRIFT, L=3.50405
45
MAC5S06: SBEND, L=1.0001, ANGLE=-2.75513, K1=-0, &
E1=-1.37757, E2=-1.37757, HGAP=0.012954, &
HGAPX=0.012954, &
FINT=0.5, TILT=90
D612: DRIFT, L=0.889115
50
MQA5S04: QUADRUPOLE, L=0.3, K1=-1.66212, TILT=0
D613: DRIFT, L=0.8947

ITV5S04: MONITOR, L=0
D614: DRIFT, L=0.58065
IPM5S05: MONITOR, L=0
55 MQA5S05: QUADRUPOLE, L=0.3, K1=1.5968, TILT=0
MBC5S05H: GKICK, L=1E-08, DXP=0, DYP=0
MBC5S05V: GKICK, L=1E-08, DXP=0, DYP=0
D615: DRIFT, L=1.31076
MQA5S06: QUADRUPOLE, L=0.3, K1=-1.35723, TILT=0
60 D616: DRIFT, L=3.47535
IPM5S07: MONITOR, L=0
MQA5S07: QUADRUPOLE, L=0.3, K1=-0.739945, TILT=0
MBC5S07H: GKICK, L=1E-08, DXP=0, DYP=0
MBC5S07V: GKICK, L=1E-08, DXP=0, DYP=0
65 D617: DRIFT, L=3.08611
IPM5S08: MONITOR, L=0
MQA5S08: QUADRUPOLE, L=0.3, K1=1.18867, TILT=0
MBC5S08H: GKICK, L=1E-08, DXP=0, DYP=0
MBC5S08V: GKICK, L=1E-08, DXP=0, DYP=0
70 IPM5S09: MONITOR, L=0
MQA5S09: QUADRUPOLE, L=0.3, K1=-1.08261, TILT=0
MBC5S09H: GKICK, L=1E-08, DXP=0, DYP=0
MBC5S09V: GKICK, L=1E-08, DXP=0, DYP=0
IPM5S10: MONITOR, L=0
75 MQA5S10: QUADRUPOLE, L=0.3, K1=1.32564, TILT=0
MBC5S10H: GKICK, L=1E-08, DXP=0, DYP=0
MBC5S10V: GKICK, L=1E-08, DXP=0, DYP=0
D618: DRIFT, L=15.6361
IPM5E01: MONITOR, L=0
80 D619: DRIFT, L=0.29964
MQB5E01: QUADRUPOLE, L=0.15, K1=-0.660278, TILT=0
D620: DRIFT, L=0.26815
MBM5E01H: GKICK, L=1E-08, DXP=0, DYP=0
MBM5E01V: GKICK, L=1E-08, DXP=0, DYP=0
85 IHAS5E01: MONITOR, L=0
D621: DRIFT, L=0.2303
MBY5E01: SBEND, L=1.00029, ANGLE=-2.40609, K1=-0, &
E1=-0, E2=-2.40609, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
90 D622: DRIFT, L=5.00441
MBZ5E02: SBEND, L=2.00059, ANGLE=4.81218, K1=-0, &
E1=2.40609, E2=2.40609, HGAP=0, &
HGAPX=0, &
95 FINT=0.5, TILT=0
MBY5E03: SBEND, L=1.00029, ANGLE=-2.40609, K1=-0, &
E1=-2.40609, E2=-0, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
100 D623: DRIFT, L=0.900356
IPM5E02: MONITOR, L=0
MQB5E02: QUADRUPOLE, L=0.15, K1=0.707005, TILT=0
MBM5E02H: GKICK, L=1E-08, DXP=0, DYP=0
MBM5E02V: GKICK, L=1E-08, DXP=0, DYP=0
105 IPM5E03: MONITOR, L=0
MQB5E03: QUADRUPOLE, L=0.15, K1=-0.652031, TILT=0
MBM5E03H: GKICK, L=1E-08, DXP=0, DYP=0
MBM5E03V: GKICK, L=1E-08, DXP=0, DYP=0
IPM5A01: MONITOR, L=0
110 MQA5A01: QUADRUPOLE, L=0.3, K1=0.499999, TILT=0
MBC5A01H: GKICK, L=1E-08, DXP=0, DYP=0
MBC5A01V: GKICK, L=1E-08, DXP=0, DYP=0
ITV5A01: MONITOR, L=0
D624: DRIFT, L=1.99878
115 MBB5A01: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
D625: DRIFT, L=2.07303
120 MBB5A02: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
D626: DRIFT, L=2.66883
125 IPM5A02: MONITOR, L=0
MQA5A02: QUADRUPOLE, L=0.3, K1=-0.586041, TILT=0
D627: DRIFT, L=0.38924
MBC5A02V: GKICK, L=1E-08, DXP=0, DYP=0
D628: DRIFT, L=2.74291
130 IPM5A03: MONITOR, L=0
MQA5A03: QUADRUPOLE, L=0.3, K1=1.05912, TILT=0
MBC5A03H: GKICK, L=1E-08, DXP=0, DYP=0
D629: DRIFT, L=0.41809
IHAS5A03: MONITOR, L=0
135 D630: DRIFT, L=2.52093
IPM5A04: MONITOR, L=0
MQA5A04: QUADRUPOLE, L=0.3, K1=-0.586041, TILT=0
MBC5A04V: GKICK, L=1E-08, DXP=0, DYP=0
D631: DRIFT, L=2.50424
140 MBB5A03: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
MBB5A04: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
145 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM5A05: MONITOR, L=0
MQA5A05: QUADRUPOLE, L=0.3, K1=0.454765, TILT=0
150 MBC5A05H: GKICK, L=1E-08, DXP=0, DYP=0
D632: DRIFT, L=2.70033
MBB5A05: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
155 FINT=0.5, TILT=0

MBB5A06: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
160 IPMSA06: MONITOR, L=0
MQA5A06: QUADRUPOLE, L=0.3, K1=-0.586041, TILT=0
MBC5A06V: GKICK, L=1E-08, DXP=0, DYP=0
D633: DRIFT, L=2.74293
IPMSA07: MONITOR, L=0
165 MQA5A07: QUADRUPOLE, L=0.3, K1=1.05912, TILT=0
MBC5A07H: GKICK, L=1E-08, DXP=0, DYP=0
D634: DRIFT, L=2.93902
IPMSA08: MONITOR, L=0
MQA5A08: QUADRUPOLE, L=0.3, K1=-0.586041, TILT=0
170 MBC5A08V: GKICK, L=1E-08, DXP=0, DYP=0
MBB5A07: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
175 MBB5A08: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPMSA09: MONITOR, L=0
180 MQA5A09: QUADRUPOLE, L=0.3, K1=0.588744, TILT=0
MBC5A09H: GKICK, L=1E-08, DXP=0, DYP=0
D635: DRIFT, L=0.70155
ITV5A09: MONITOR, L=0
185 MBB5A09: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
MBB5A10: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
190 FINT=0.5, TILT=0
IPMSA10: MONITOR, L=0
MQA5A10: QUADRUPOLE, L=0.3, K1=-0.586041, TILT=0
MBC5A10V: GKICK, L=1E-08, DXP=0, DYP=0
195 MQA5A11: QUADRUPOLE, L=0.3, K1=1.05912, TILT=0
MBC5A11H: GKICK, L=1E-08, DXP=0, DYP=0
D636: DRIFT, L=3.16367
IPMSA12: MONITOR, L=0
MQA5A12: QUADRUPOLE, L=0.3, K1=-0.586041, TILT=0
200 MBC5A12V: GKICK, L=1E-08, DXP=0, DYP=0
MBB5A11: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
205 MBB5A12: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPMSA13: MONITOR, L=0
210 MQA5A13: QUADRUPOLE, L=0.3, K1=0.454765, TILT=0
MBC5A13H: GKICK, L=1E-08, DXP=0, DYP=0
MBB5A13: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
215 FINT=0.5, TILT=0
MBB5A14: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
220 D637: DRIFT, L=2.89348
IPMSA14: MONITOR, L=0
MQA5A14: QUADRUPOLE, L=0.3, K1=-0.586041, TILT=0
MBC5A14V: GKICK, L=1E-08, DXP=0, DYP=0
MQA5A15: QUADRUPOLE, L=0.3, K1=1.05912, TILT=0
225 MBC5A15H: GKICK, L=1E-08, DXP=0, DYP=0
IPMSA16: MONITOR, L=0
MQA5A16: QUADRUPOLE, L=0.3, K1=-0.586041, TILT=0
MBC5A16V: GKICK, L=1E-08, DXP=0, DYP=0
230 MBB5A15: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
MBB5A16: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
235 FINT=0.5, TILT=0
IPMSA17: MONITOR, L=0
MQA5A17: QUADRUPOLE, L=0.3, K1=0.588744, TILT=0
MBC5A17H: GKICK, L=1E-08, DXP=0, DYP=0
240 ITV5A17: MONITOR, L=0
MBB5A17: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
245 MBB5A18: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPMSA18: MONITOR, L=0
250 MQA5A18: QUADRUPOLE, L=0.3, K1=-0.586041, TILT=0
MBC5A18V: GKICK, L=1E-08, DXP=0, DYP=0
MQA5A19: QUADRUPOLE, L=0.3, K1=1.05912, TILT=0
MBC5A19H: GKICK, L=1E-08, DXP=0, DYP=0
IPMSA20: MONITOR, L=0
255 MQA5A20: QUADRUPOLE, L=0.3, K1=-0.586041, TILT=0
MBC5A20V: GKICK, L=1E-08, DXP=0, DYP=0
MBB5A19: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &

260 FINT=0.5, TILT=0
 MBB5A20: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
 HGAPX=0.0126554, &
 FINT=0.5, TILT=0

265 IPMSA21: MONITOR, L=0
 MQA5A21: QUADRUPOLE, L=0.3, K1=0.454765, TILT=0
 MBC5A21H: GKICK, L=1E-08, DXP=0, DYP=0
 MBB5A21: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
 HGAPX=0.0126554, &
 FINT=0.5, TILT=0

270 MBB5A22: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
 HGAPX=0.0126554, &
 FINT=0.5, TILT=0

275 IPMSA22: MONITOR, L=0
 MQA5A22: QUADRUPOLE, L=0.3, K1=-0.586041, TILT=0
 MBC5A22V: GKICK, L=1E-08, DXP=0, DYP=0
 MQA5A23: QUADRUPOLE, L=0.3, K1=1.05912, TILT=0

280 MBC5A23H: GKICK, L=1E-08, DXP=0, DYP=0
 IPMSA24: MONITOR, L=0
 MQA5A24: QUADRUPOLE, L=0.3, K1=-0.586041, TILT=0
 MBC5A24V: GKICK, L=1E-08, DXP=0, DYP=0
 MBB5A23: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
 HGAPX=0.0126554, &
 FINT=0.5, TILT=0

285 MBB5A24: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
 HGAPX=0.0126554, &
 FINT=0.5, TILT=0

290 IPMSA25: MONITOR, L=0
 MQA5A25: QUADRUPOLE, L=0.3, K1=0.588744, TILT=0
 MBC5A25H: GKICK, L=1E-08, DXP=0, DYP=0

295 ITV5A25: MONITOR, L=0
 MBB5A25: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
 HGAPX=0.0126554, &
 FINT=0.5, TILT=0

300 MBB5A26: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
 HGAPX=0.0126554, &
 FINT=0.5, TILT=0

305 IPMSA26: MONITOR, L=0
 MQA5A26: QUADRUPOLE, L=0.3, K1=-0.586041, TILT=0
 MBC5A26V: GKICK, L=1E-08, DXP=0, DYP=0
 MQA5A27: QUADRUPOLE, L=0.3, K1=1.05912, TILT=0
 MBC5A27H: GKICK, L=1E-08, DXP=0, DYP=0
 IPMSA28: MONITOR, L=0

310 MQA5A28: QUADRUPOLE, L=0.3, K1=-0.586041, TILT=0
 MBC5A28V: GKICK, L=1E-08, DXP=0, DYP=0
 MBB5A27: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
 HGAPX=0.0126554, &
 FINT=0.5, TILT=0

315 MBB5A28: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
 HGAPX=0.0126554, &
 FINT=0.5, TILT=0

320 IPMSA29: MONITOR, L=0
 MQA5A29: QUADRUPOLE, L=0.3, K1=0.454765, TILT=0
 MBC5A29H: GKICK, L=1E-08, DXP=0, DYP=0
 MBB5A29: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
 HGAPX=0.0126554, &
 FINT=0.5, TILT=0

325 MBB5A30: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
 HGAPX=0.0126554, &
 FINT=0.5, TILT=0

330 IPMSA30: MONITOR, L=0
 MQA5A30: QUADRUPOLE, L=0.3, K1=-0.586041, TILT=0
 MBC5A30V: GKICK, L=1E-08, DXP=0, DYP=0
 MQA5A31: QUADRUPOLE, L=0.3, K1=1.05912, TILT=0

335 MBC5A31H: GKICK, L=1E-08, DXP=0, DYP=0
 IPMSA32: MONITOR, L=0
 MQA5A32: QUADRUPOLE, L=0.3, K1=-0.586041, TILT=0
 MBC5A32V: GKICK, L=1E-08, DXP=0, DYP=0
 MBB5A31: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
 HGAPX=0.0126554, &
 FINT=0.5, TILT=0

340 MBB5A32: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.469878, &
 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
 HGAPX=0.0126554, &
 FINT=0.5, TILT=0

345 IPMSR01: MONITOR, L=0
 MQA5R01: QUADRUPOLE, L=0.3, K1=0.524486, TILT=0
 MBC5R01H: GKICK, L=1E-08, DXP=0, DYP=0

350 ITV5R01: MONITOR, L=0
 D638: DRIFT, L=2.58065
 IPMSR02: MONITOR, L=0
 MQA5R02: QUADRUPOLE, L=0.3, K1=-0.449556, TILT=0
 MBC5R02H: GKICK, L=1E-08, DXP=0, DYP=0

355 MBC5R02V: GKICK, L=1E-08, DXP=0, DYP=0
 IPMSR03: MONITOR, L=0
 MQA5R03: QUADRUPOLE, L=0.3, K1=0.45368, TILT=0
 MBC5R03H: GKICK, L=1E-08, DXP=0, DYP=0
 D639: DRIFT, L=3.2822

360 IPMSR04: MONITOR, L=0
 MQA5R04: QUADRUPOLE, L=0.3, K1=-0.405401, TILT=0
 MBC5R04H: GKICK, L=1E-08, DXP=0, DYP=0
 MBC5R04V: GKICK, L=1E-08, DXP=0, DYP=0

D640: DRIFT, L=3.31076
365 MQA5R05: QUADRUPOLE, L=0.3, K1=-0.442799, TILT=0
D641: DRIFT, L=1.47535
IPM5R06: MONITOR, L=0
MQA5R06: QUADRUPOLE, L=0.3, K1=1.2429, TILT=0
MBC5R06H: GKICK, L=1E-08, DXP=0, DYP=0
370 ITV5R06: MONITOR, L=0
D642: DRIFT, L=0.8053
MQA5R07: QUADRUPOLE, L=0.3, K1=-1.00991, TILT=0
MBC5R07V: GKICK, L=1E-08, DXP=0, DYP=0
D643: DRIFT, L=0.49987
375 MAC5R01: SBEND, L=1.0001, ANGLE=-2.75513, K1=-0, &
E1=-2.91766, E2=-2.91766, HGAP=0.012889, &
HGAPX=0.012889, &
FINT=0.5, TILT=90
MAC5R03: SBEND, L=1.0001, ANGLE=2.75513, K1=-0, &
380 E1=2.91766, E2=2.91766, HGAP=0.012889, &
HGAPX=0.012889, &
FINT=0.5, TILT=90
D644: DRIFT, L=0.431855
MBC5R08H: GKICK, L=1E-08, DXP=0, DYP=0
385 MQA5R08: QUADRUPOLE, L=0.3, K1=-1.70268, TILT=0
IPM5R08: MONITOR, L=0
MBC5R09H: GKICK, L=1E-08, DXP=0, DYP=0
MQA5R09: QUADRUPOLE, L=0.3, K1=1.09524, TILT=0
IPM5R09: MONITOR, L=0
390 D645: DRIFT, L=4.96611
MBC5R10V: GKICK, L=1E-08, DXP=0, DYP=0
MBC5R10H: GKICK, L=1E-08, DXP=0, DYP=0
MQA5R10: QUADRUPOLE, L=0.3, K1=-0.537271, TILT=0
IPM5R10: MONITOR, L=0
395 D646A: DRIFT, L=0.07934
MAU5R04: SBEND, L=2.00149, ANGLE=-7.66401, K1=-0, &
E1=-3.83201, E2=-3.83201, HGAP=0.012954, &
HGAPX=0.012954, &
FINT=0.5, TILT=90
400 MAS5R05: SBEND, L=1.00536, ANGLE=3.6876, K1=-0, &
E1=3.97641, E2=7.66402, HGAP=0.023749, &
HGAPX=0.023749, &
FINT=0.5, TILT=90
405 MAQ5R06: SBEND, L=1.0008, ANGLE=3.97641, K1=-0, &
E1=0, E2=3.97641, HGAP=0.01905, &
HGAPX=0.01905, &
FINT=0.5, TILT=90

ARC5: LINE=(MAQ5S01, &
410 D30077, MAS5S02, D30078, MAU5S03, D602A, &
IPM5S01, D603, MQA5S01, D604, MBC5S01H, &
D605, MBC5S01V, D606, ITV5S01, D607, &
IPM5S02, D603, MQA5S02, D608, MBC5S02H, &
D609, IPM5S03, D603, MQA5S03, D604, &
415 MBC5S03H, D610, MAC5S04, D30083, MAC5S06, &
D612, MQA5S04, D613, ITV5S04, D614, &
IPM5S05, D603, MQA5S05, D604, MBC5S05H, &
D605, MBC5S05V, D615, MQA5S06, D616, &
IPM5S07, D603, MQA5S07, D604, MBC5S07H, &
420 D605, MBC5S07V, D617, IPM5S08, D603, &
MQA5S08, D604, MBC5S08H, D605, MBC5S08V, &
D617, IPM5S09, D603, MQA5S09, D604, &
MBC5S09H, D605, MBC5S09V, D617, IPM5S10, &
D603, MQA5S10, D604, MBC5S10H, D605, &
425 MBC5S10V, D618, IPM5E01, D619, MQB5E01, &
D620, MBM5E01H, D605, MBM5E01V, D606, &
IHAS5E01, D621, MBY5E01, D622, MBZ5E02, &
D622, MBY5E03, D623, IPM5E02, D619, &
MQB5E02, D620, MBM5E02H, D605, MBM5E02V, &
430 D618, IPM5E03, D619, MQB5E03, D620, &
MBM5E03H, D605, MBM5E03V, D618, IPM5A01, &
D603, MQA5A01, D604, MBC5A01H, D605, &
MBC5A01V, D606, ITV5A01, D624, MBB5A01, &
D625, MBB5A02, D626, IPM5A02, D603, &
435 MQA5A02, D627, MBC5A02V, D628, IPM5A03, &
D603, MQA5A03, D604, MBC5A03H, D629, &
IHAS5A03, D630, IPM5A04, D603, MQA5A04, &
D627, MBC5A04V, D631, MBB5A03, D625, &
MBB5A04, D626, IPM5A05, D603, MQA5A05, &
440 D604, MBC5A05H, D632, MBB5A05, D625, &
MBB5A06, D626, IPM5A06, D603, MQA5A06, &
D627, MBC5A06V, D633, IPM5A07, D603, &
MQA5A07, D604, MBC5A07H, D634, IPM5A08, &
D603, MQA5A08, D627, MBC5A08V, D631, &
445 MBB5A07, D625, MBB5A08, D626, IPM5A09, &
D603, MQA5A09, D604, MBC5A09H, D635, &
ITV5A09, D624, MBB5A09, D625, MBB5A10, &
D626, IPM5A10, D603, MQA5A10, D627, &
MBC5A10V, D628, D603, MQA5A11, D604, &
450 MBC5A11H, D636, IPM5A12, MQA5A12, D627, &
MBC5A12V, D631, MBB5A11, D625, MBB5A12, &
D626, IPM5A13, D603, MQA5A13, D627, &
MBC5A13H, D631, MBB5A13, D625, MBB5A14, &
D637, IPM5A14, MQA5A14, D627, MBC5A14V, &
455 D633, D603, MQA5A15, D604, MBC5A15H, &
D634, IPM5A16, D603, MQA5A16, D627, &
MBC5A16V, D631, MBB5A15, D625, MBB5A16, &
D626, IPM5A17, D603, MQA5A17, D604, &
MBC5A17H, D635, ITV5A17, D624, MBB5A17, &
460 D625, MBB5A18, D626, IPM5A18, D603, &
MQA5A18, D627, MBC5A18V, D628, D603, &
MQA5A19, D604, MBC5A19H, D636, IPM5A20, &
MQA5A20, D627, MBC5A20V, D631, MBB5A19, &
D625, MBB5A20, D626, IPM5A21, D603, &
465 MQA5A21, D627, MBC5A21H, D631, MBB5A21, &
D625, MBB5A22, D637, IPM5A22, MQA5A22, &
D627, MBC5A22V, D633, D603, MQA5A23, &

470 D604, MBC5A23H, D634, IPM5A24, D603, &
MQA5A24, D627, MBC5A24V, D631, MBB5A23, &
D625, MBB5A24, D626, IPM5A25, D603, &
MQA5A25, D604, MBC5A25H, D635, ITV5A25, &
D624, MBB5A25, D625, MBB5A26, D626, &
IPM5A26, D603, MQA5A26, D627, MBC5A26V, &
475 D628, D603, MQA5A27, D604, MBC5A27H, &
D636, IPM5A28, MQA5A28, D627, MBC5A28V, &
D631, MBB5A27, D625, MBB5A28, D626, &
IPM5A29, D603, MQA5A29, D604, MBC5A29H, &
D632, MBB5A29, D625, MBB5A30, D637, &
IPM5A30, MQA5A30, D627, MBC5A30V, D633, &
480 D603, MQA5A31, D604, MBC5A31H, D634, &
IPM5A32, D603, MQA5A32, D627, MBC5A32V, &
D631, MBB5A31, D625, MBB5A32, D626, &
IPM5R01, D603, MQA5R01, D604, MBC5R01H, &
D635, ITV5R01, D638, IPM5R02, D603, &
485 MQA5R02, D604, MBC5R02H, D605, MBC5R02V, &
D617, IPM5R03, D603, MQA5R03, D604, &
MBC5R03H, D639, IPM5R04, D603, MQA5R04, &
D604, MBC5R04H, D605, MBC5R04V, D640, &
MQA5R05, D641, IPM5R06, D603, MQA5R06, &
490 D604, MBC5R06H, D635, ITV5R06, D642, &
MQA5R07, D627, MBC5R07V, D643, MAC5R01, &
D30083, MAC5R03, D644, MBC5R08H, D604, &
MQA5R08, D603, IPM5R08, D609, MBC5R09H, &
D608, MQA5R09, D603, IPM5R09, D645, &
495 MBC5R10V, D605, MBC5R10H, D604, MQA5R10, &
D603, IPM5R10, D646A, MAU5R04, D30078, &
MAS5R05, D30077, MAQ5R06)
USE, ARCS
DIMAT

1

* DIMAD PROGRAM : LAST MODIFIED ON May 27, 2005 *

1 CONVERTED FROM ../../OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//ARCS.OPT

TOTAL LENGTH OF MACHINE IS: 408.323 METERS
IN THIS RUN THERE ARE :
267 DISTINCT ELEMENTS. ALLOCATED MXELMD : 268
439 ELEMENTS IN MACHINE.ALLOCATED MXPOS_D : 441
100 MATRICES DEFINED. ALLOCATED MAXMAT : 101
1898 VALUES IN ELDAT. ALLOCATED MAXDAT : 1898
0 LCAVs. ALLOCATED MX_LCAV : 1

1

OPERATION LIST ,

MACHINE
1 2 1 0 1 1 1
49.7121 1.83412 0 0
54.4466 -0.352401 0 0
0,

ELEMENT	#	BETAX	ALPHAX	BETAY	ALPHAY	ETAX	ETAPX	ETAY	ETAPY	NUX	NUY	ACC.LEN
\$\$INITIAL\$\$	0	49.7121	1.8341	54.4466	-0.3524	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.000
MAQ5S01	1	46.1376	1.9602	54.9085	-0.3731	0.0000	0.0000	0.0347	0.0695	0.00333	0.00291	1.001
D30077	2	42.3133	1.8550	55.6774	-0.3939	0.0000	0.0000	0.1044	0.0695	0.00694	0.00580	2.003
MAS5S02	3	38.3364	2.2429	56.7593	-0.9220	0.0000	0.0000	0.2068	0.1355	0.01091	0.00864	3.009
D30078	4	25.1544	1.7196	63.2543	-1.0304	0.0000	0.0000	0.6576	0.1355	0.02799	0.01748	6.335
MAU5S03	5	18.5191	1.5663	67.4964	-1.0954	0.0000	0.0000	0.7943	0.0015	0.04277	0.02234	8.337
D602A	6	18.2717	1.5515	67.6704	-1.0980	0.0000	0.0000	0.7945	0.0015	0.04346	0.02253	8.416
IPM5S01	7	18.2717	1.5515	67.6704	-1.0980	0.0000	0.0000	0.7945	0.0015	0.04346	0.02253	8.416
D603	8	17.5840	1.5096	68.1654	-1.1053	0.0000	0.0000	0.7948	0.0015	0.04545	0.02306	8.641
MQA5S01	9	17.5321	-1.3337	65.5588	9.6533	0.0000	0.0000	0.7761	-0.1259	0.04820	0.02377	8.941
D604	10	18.0532	-1.3643	61.8833	9.3758	0.0000	0.0000	0.7518	-0.1259	0.04992	0.02425	9.134
MBC5S01H	11	18.0532	-1.3643	61.8833	9.3758	0.0000	0.0000	0.7518	-0.1259	0.04992	0.02425	9.134
D605	12	18.5943	-1.3953	58.2615	9.0941	0.0000	0.0000	0.7271	-0.1259	0.05163	0.02477	9.330
MBC5S01V	13	18.5943	-1.3953	58.2615	9.0941	0.0000	0.0000	0.7271	-0.1259	0.05163	0.02477	9.330
D606	14	20.0454	-1.4755	49.4352	8.3679	0.0000	0.0000	0.6634	-0.1259	0.05579	0.02627	9.835
ITV5S01	15	20.0454	-1.4755	49.4352	8.3679	0.0000	0.0000	0.6634	-0.1259	0.05579	0.02627	9.835
D607	16	36.3619	-2.1824	3.3684	1.9594	0.0000	0.0000	0.1018	-0.1259	0.08221	0.08244	14.296
IPM5S02	17	36.3619	-2.1824	3.3684	1.9594	0.0000	0.0000	0.1018	-0.1259	0.08221	0.08244	14.296
D603	18	37.3505	-2.2180	2.5606	1.6367	0.0000	0.0000	0.0736	-0.1259	0.08318	0.09463	14.521
MQA5S02	19	35.0612	9.5974	1.9063	0.6150	0.0000	0.0000	0.0388	-0.1077	0.08448	0.11666	14.821
D608	20	25.2286	8.1239	1.4464	0.2139	0.0000	0.0000	-0.0209	-0.1077	0.08745	0.17089	15.376
MBC5S02H	21	25.2286	8.1239	1.4464	0.2139	0.0000	0.0000	-0.0209	-0.1077	0.08745	0.17089	15.376
D609	22	7.3341	4.2985	2.3304	-0.8276	0.0000	0.0000	-0.1760	-0.1077	0.10434	0.31445	16.816

IPM5S03	23	7.3341	4.2985	2.3304	-0.8276	0.0000	0.0000	-0.1760	-0.1077	0.10434	0.31445	16.816
D603	24	5.5369	3.7019	2.7388	-0.9900	0.0000	0.0000	-0.2002	-0.1077	0.10995	0.32863	17.041
MQA5S03	25	4.2248	0.8923	2.9377	0.3610	0.0000	0.0000	-0.2166	0.0000	0.12008	0.34506	17.341
D604	26	3.8960	0.8102	2.8127	0.2866	0.0000	0.0000	-0.2166	0.0000	0.12766	0.35576	17.534
MBC5S03H	27	3.8960	0.8102	2.8127	0.2866	0.0000	0.0000	-0.2166	0.0000	0.12766	0.35576	17.534
D610	28	3.2755	0.6266	2.6368	0.1205	0.0000	0.0000	-0.2166	0.0000	0.14695	0.38111	17.966
MAC5S04	29	2.4414	0.2064	2.7805	-0.2642	0.0000	0.0000	-0.1925	0.0481	0.20448	0.44130	18.966
D30083	30	6.2383	-1.2900	9.3557	-1.6123	0.0000	0.0000	-0.0240	0.0481	0.38192	0.56184	22.470
MAC5S06	31	9.2287	-1.6968	12.9640	-1.9970	0.0000	0.0000	0.0000	0.0000	0.40296	0.57631	23.470
D612	32	12.5782	-2.0705	16.8192	-2.3390	0.0000	0.0000	0.0000	0.0000	0.41611	0.58589	24.359
MQA5S04	33	15.9652	-9.7769	15.7267	5.7972	0.0000	0.0000	0.0000	0.0000	0.41957	0.58876	24.659
D613	34	38.3029	-15.1898	7.1147	3.8284	0.0000	0.0000	0.0000	0.0000	0.42533	0.60224	25.554
ITV5S04	35	38.3029	-15.1898	7.1147	3.8284	0.0000	0.0000	0.0000	0.0000	0.42533	0.60224	25.554
D614	36	57.9825	-18.7026	3.4107	2.5506	0.0000	0.0000	0.0000	0.0000	0.42729	0.62104	26.135
IPM5S05	37	57.9825	-18.7026	3.4107	2.5506	0.0000	0.0000	0.0000	0.0000	0.42729	0.62104	26.135
D603	38	66.6909	-20.0617	2.3758	2.0562	0.0000	0.0000	0.0000	0.0000	0.42786	0.63361	26.359
MQA5S05	39	68.9924	12.7610	1.5862	0.7005	0.0000	0.0000	0.0000	0.0000	0.42855	0.65891	26.659
D604	40	64.1514	12.3024	1.3507	0.5190	0.0000	0.0000	0.0000	0.0000	0.42901	0.67997	26.852
MBC5S05H	41	64.1514	12.3024	1.3507	0.5190	0.0000	0.0000	0.0000	0.0000	0.42901	0.67997	26.852
D605	42	59.4180	11.8367	1.1833	0.3347	0.0000	0.0000	0.0000	0.0000	0.42952	0.70476	27.048
MBC5S05V	43	59.4180	11.8367	1.1833	0.3347	0.0000	0.0000	0.0000	0.0000	0.42952	0.70476	27.048
D615	44	32.4681	8.7239	1.9205	-0.8971	0.0000	0.0000	0.0000	0.0000	0.43427	0.87254	28.359
MQA5S06	45	31.1497	-4.1517	2.2720	-0.2265	0.0000	0.0000	0.0000	0.0000	0.43580	0.89501	28.659
D616	46	67.0784	-6.1864	9.4349	-1.8346	0.0000	0.0000	0.0000	0.0000	0.44791	1.03014	32.135
IPM5S07	47	67.0784	-6.1864	9.4349	-1.8346	0.0000	0.0000	0.0000	0.0000	0.44791	1.03014	32.135
D603	48	69.8876	-6.3180	10.2825	-1.9385	0.0000	0.0000	0.0000	0.0000	0.44843	1.03377	32.359
MQA5S07	49	78.6612	-23.5737	10.7657	0.3638	0.0000	0.0000	0.0000	0.0000	0.44908	1.03826	32.659
D604	50	88.0317	-24.9407	10.6291	0.3435	0.0000	0.0000	0.0000	0.0000	0.44945	1.04113	32.852
MBC5S07H	51	88.0317	-24.9407	10.6291	0.3435	0.0000	0.0000	0.0000	0.0000	0.44945	1.04113	32.852
D605	52	98.0851	-26.3285	10.4985	0.3229	0.0000	0.0000	0.0000	0.0000	0.44979	1.04409	33.048
MBC5S07V	53	98.0851	-26.3285	10.4985	0.3229	0.0000	0.0000	0.0000	0.0000	0.44979	1.04409	33.048
D617	54	327.9967	-48.1703	9.5075	-0.0017	0.0000	0.0000	0.0000	0.0000	0.45253	1.09407	36.135
IPM5S08	55	327.9967	-48.1703	9.5075	-0.0017	0.0000	0.0000	0.0000	0.0000	0.45253	1.09407	36.135
D603	56	349.9968	-49.7602	9.5136	-0.0254	0.0000	0.0000	0.0000	0.0000	0.45263	1.09783	36.359
MQA5S08	57	342.2568	74.6335	10.5943	-3.7046	0.0000	0.0000	0.0000	0.0000	0.45277	1.10267	36.659
D604	58	314.0331	71.4895	12.0772	-3.9730	0.0000	0.0000	0.0000	0.0000	0.45286	1.10539	36.852
MBC5S08H	59	314.0331	71.4895	12.0772	-3.9730	0.0000	0.0000	0.0000	0.0000	0.45286	1.10539	36.852
D605	60	286.6223	68.2976	13.6888	-4.2456	0.0000	0.0000	0.0000	0.0000	0.45297	1.10781	37.048
MBC5S08V	61	286.6223	68.2976	13.6888	-4.2456	0.0000	0.0000	0.0000	0.0000	0.45297	1.10781	37.048
D617	62	20.1049	18.0627	53.1300	-8.5346	0.0000	0.0000	0.0001	0.0000	0.45944	1.12607	40.135
IPM5S09	63	20.1049	18.0627	53.1300	-8.5346	0.0000	0.0000	0.0001	0.0000	0.45944	1.12607	40.135
D603	64	12.8108	14.4059	57.0347	-8.8469	0.0000	0.0000	0.0001	0.0000	0.46167	1.12672	40.359
MQA5S09	65	6.3973	7.6625	56.7468	9.7754	0.0000	0.0000	0.0001	0.0000	0.46703	1.12754	40.659
D604	66	3.7855	5.8596	53.0340	9.4467	0.0000	0.0000	0.0001	0.0000	0.47328	1.12810	40.852
MBC5S09H	67	3.7855	5.8596	53.0340	9.4467	0.0000	0.0000	0.0001	0.0000	0.47328	1.12810	40.852
D605	68	1.8464	4.0292	49.3946	9.1130	0.0000	0.0000	0.0001	0.0000	0.48509	1.12871	41.048
MBC5S09V	69	1.8464	4.0292	49.3946	9.1130	0.0000	0.0000	0.0001	0.0000	0.48509	1.12871	41.048
D617	70	65.8778	-24.7775	9.3526	3.8619	0.0000	0.0000	0.0000	0.0000	0.93995	1.15164	44.135
IPM5S10	71	65.8778	-24.7775	9.3526	3.8619	0.0000	0.0000	0.0000	0.0000	0.93995	1.15164	44.135
D603	72	77.4814	-26.8744	7.7034	3.4796	0.0000	0.0000	0.0000	0.0000	0.94045	1.15586	44.359
MQA5S10	73	84.2787	5.1251	6.5611	0.4783	0.0000	0.0000	0.0000	0.0000	0.94103	1.16271	44.659
D604	74	82.3110	5.0626	6.3833	0.4421	0.0000	0.0000	0.0000	0.0000	0.94140	1.16746	44.852
MBC5S10H	75	82.3110	5.0626	6.3833	0.4421	0.0000	0.0000	0.0000	0.0000	0.94140	1.16746	44.852
D605	76	80.3380	4.9991	6.2171	0.4054	0.0000	0.0000	0.0000	0.0000	0.94179	1.17241	45.048
MBC5S10V	77	80.3380	4.9991	6.2171	0.4054	0.0000	0.0000	0.0000	0.0000	0.94179	1.17241	45.048
D618	78	3.1019	-0.0595	39.3272	-2.5229	0.0000	0.0000	0.0001	0.0000	1.16983	1.42365	60.684
IPM5E01	79	3.1019	-0.0595	39.3272	-2.5229	0.0000	0.0000	0.0001	0.0000	1.16983	1.42365	60.684
D619	80	3.1666	-0.1565	40.8560	-2.5790	0.0000	0.0000	0.0001	0.0000	1.18507	1.42484	60.984
MQB5E01	81	3.2686	-0.5269	41.0223	1.4759	0.0000	0.0000	0.0001	0.0000	1.19251	1.42542	61.134
D620	82	3.5793	-0.6317	40.2363	1.4551	0.0000	0.0000	0.0001	0.0000	1.20500	1.42647	61.402
MBM5E01H	83	3.5793	-0.6317	40.2363	1.4551	0.0000	0.0000	0.0001	0.0000	1.20500	1.42647	61.402
D605	84	3.8421	-0.7084	39.6687	1.4399	0.0000	0.0000	0.0001	0.0000	1.21342	1.42725	61.598
MBM5E01V	85	3.8421	-0.7084	39.6687	1.4399	0.0000	0.0000	0.0001	0.0000	1.21342	1.42725	61.598
D606	86	4.6581	-0.9059	38.2328	1.4008	0.0000	0.0000	0.0001	0.0000	1.23248	1.42932	62.104
IHA5E01	87	4.6581	-0.9059	38.2328	1.4008	0.0000	0.0000	0.0001	0.0000	1.23248	1.42932	62.104
D621	88	5.0961	-0.9960	37.5917	1.3829	0.0000	0.0000	0.0001	0.0000	1.24001	1.43029	62.334
MBY5E01	89	7.4681	-1.3872	34.9026	1.3670	-0.0210	-0.0420	0.0001	0.0000	1.26592	1.43468	63.334
D622	90	31.1587	-3.3467	23.2791	0.9557	-0.2313	-0.0420	0.0001	0.0000	1.31912	1.46277	68.339
MBZ5E02	91	46.0974	-4.1292	19.6337	0.8601	-0.2313	0.0420	0.0001	0.0000	1.32751	1.47768	70.339
D622	92	97.2321	-6.0888	13.2447	0.4166	-0.0210	0.0420	0.0000	0.0000	1.33942	1.52791	75.344
MBY5E03	93	109.9836	-6.4800	12.4546	0.3498	0.0000	0.0000	0.0000	0.0000	1.34096	1.54031	76.344
D623	94	121.9690	-6.8319	11.8977	0.2687	0.0000	0.0000	0.0000	0.0000	1.34220	1.55210	77.244
IPM5E02	95	121.9690	-6.8319	11.8977	0.2687	0.0000	0.0000	0.0000	0.0000	1.34220	1.55210	77.244
D619	96	126.0983	-6.9490	11.7448	0.2417	0.0000	0.0000	0.0000	0.0000	1.34258	1.55613	77.544
MQB5E02	97	126.1744	6.4443	11.8613	-1.0230	0.0000	0.0000	0.0000	0.0000	1.34277	1.55816	77.694
D620	98	122.7426	6.3539	12.4224	-1.0693	0.0000	0.0000	0.0000	0.0000	1.34311	1.56167	77.962
MBM5E02H	99	122.7426	6.3539	12.4224	-1.0693	0.0000	0.0000	0.0000	0.0000	1.34311	1.56167	77.962
D605	100	120.2636	6.2879	12.8484	-1.1031	0.0000	0.0000	0.0000	0.0000	1.34337	1.56415	78.158
MBM5E02V	101	120.2636	6.2879	12.8484	-1.1031	0.0000	0.0000	0.0000	0.0000	1.34337	1.56415	78.158
D618	102	6.0378	1.0174	89.5296	-3.8010	0.0000	0.0000	-0.0001	0.0000	1.44190	1.64040	93.794
IPM5E03	103	6.0378	1.0174	89.5296	-3.8010	0.0000	0.0000	-0.0001	0.0000	1.44190	1.64040	93.794
D619	104	5.4583	0.9164	91.8229	-3.8527	0.0000	0.0000	-0.0001	0.0000	1.45021	1.64093	94.094
MQB5E03	105	5.2688	0.3533	91.6308	5.1273	0.0000	0.0000	-0.0001	0.0000	1.45467	1.64119	94.244
D620	106	5.0946	0.2961	88.9024	5.0474	0.0000	0.0000	-0.0001	0.0000	1.46291	1.64166	9

MQA5A02	127	3.4717	-1.2525	53.7308	5.6876	1.2504	0.4065	-0.0001	0.0000	2.01903	1.99086	123.031
D627	128	4.5588	-1.5404	49.3971	5.4460	1.4087	0.4065	-0.0001	0.0000	2.03462	1.99206	123.420
MBC5A02V	129	4.5588	-1.5404	49.3971	5.4460	1.4087	0.4065	-0.0001	0.0000	2.03462	1.99206	123.420
D628	130	18.5759	-3.5699	24.1909	3.7436	2.5236	0.4065	0.0000	0.0000	2.08279	2.00470	126.163
IPM5A03	131	18.5759	-3.5699	24.1909	3.7436	2.5236	0.4065	0.0000	0.0000	2.08279	2.00470	126.163
D603	132	20.2172	-3.7361	22.5402	3.6041	2.6149	0.4065	0.0000	0.0000	2.08464	2.00623	126.387
MQA5A03	133	20.5169	2.7689	22.5130	-3.5106	2.6113	-0.4305	0.0000	0.0000	2.08695	2.00838	126.687
D604	134	19.4630	2.6873	23.8913	-3.6249	2.5281	-0.4305	0.0000	0.0000	2.08848	2.00971	126.881
MBC5A03H	135	19.4630	2.6873	23.8913	-3.6249	2.5281	-0.4305	0.0000	0.0000	2.08848	2.00971	126.881
D629	136	17.2898	2.5107	27.0258	-3.8724	2.3481	-0.4305	0.0000	0.0000	2.09211	2.01233	127.299
IHA5A03	137	17.2898	2.5107	27.0258	-3.8724	2.3481	-0.4305	0.0000	0.0000	2.09211	2.01233	127.299
D630	138	7.3156	1.4458	50.3111	-5.3644	1.2630	-0.4305	0.0000	0.0000	2.12809	2.02322	129.820
IPM5A04	139	7.3156	1.4458	50.3111	-5.3644	1.2630	-0.4305	0.0000	0.0000	2.12809	2.02322	129.820
D603	140	6.6873	1.3509	52.7512	-5.4974	1.1663	-0.4305	0.0000	0.0000	2.13320	2.02391	130.044
MQA5A04	141	6.2456	0.1472	53.2535	3.8527	1.0669	-0.2350	0.0000	0.0000	2.14066	2.02481	130.344
D627	142	6.1558	0.0835	50.2993	3.7369	0.9754	-0.2350	0.0000	0.0000	2.15066	2.02600	130.734
MBC5A04V	143	6.1558	0.0835	50.2993	3.7369	0.9754	-0.2350	0.0000	0.0000	2.15066	2.02600	130.734
D631	144	6.7633	-0.3261	33.4490	2.9918	0.3869	-0.2350	0.0000	0.0000	2.21409	2.03573	133.238
MBB5A03	145	8.6835	-0.6337	22.5235	2.4510	0.0151	-0.1372	0.0000	0.0000	2.25603	2.04735	135.239
D625	146	12.0043	-0.9683	13.6986	1.8060	-0.2693	-0.1372	0.0000	0.0000	2.28857	2.06617	137.312
MBB5A04	147	16.4497	-1.2538	7.6631	1.2007	-0.4444	-0.0381	0.0000	0.0000	2.31126	2.09748	139.312
D626	148	24.2558	-1.6711	3.5236	0.3503	-0.5460	-0.0381	0.0000	0.0000	2.33259	2.18332	141.981
IPM5A05	149	24.2558	-1.6711	3.5236	0.3503	-0.5460	-0.0381	0.0000	0.0000	2.33259	2.18332	141.981
D603	150	25.0145	-1.7062	3.3823	0.2788	-0.5545	-0.0381	0.0000	0.0000	2.33404	2.19369	142.206
MQA5A05	151	25.0145	1.7063	3.3799	-0.2705	-0.5546	0.0378	0.0000	0.0000	2.33593	2.20792	142.506
D604	152	24.3612	1.6761	3.4962	-0.3318	-0.5472	0.0378	0.0000	0.0000	2.33718	2.21687	142.699
MBC5A05H	153	24.3612	1.6761	3.4962	-0.3318	-0.5472	0.0378	0.0000	0.0000	2.33718	2.21687	142.699
D632	154	16.4495	1.2538	7.6034	-1.1892	-0.4450	0.0378	0.0001	0.0000	2.35871	2.30460	145.399
MBB5A05	155	12.0039	0.9683	13.5889	-1.7926	-0.2704	0.1369	0.0001	0.0000	2.38140	2.33616	147.400
D625	156	8.6831	0.6337	22.3535	-2.4353	0.0135	0.1369	0.0001	0.0000	2.41394	2.35514	149.473
MBB5A06	157	6.7629	0.3261	33.2132	-2.9747	0.3849	0.2348	0.0001	0.0000	2.45588	2.36684	151.474
D626	158	6.1875	-0.1105	51.2032	-3.7661	1.0115	0.2348	0.0001	0.0000	2.52356	2.37715	154.143
IPM5A06	159	6.1875	-0.1105	51.2032	-3.7661	1.0115	0.2348	0.0001	0.0000	2.52356	2.37715	154.143
D603	160	6.2454	-0.1472	52.9103	-3.8327	1.0643	0.2348	0.0001	0.0000	2.52932	2.37784	154.367
MQA5A06	161	6.6871	-1.3509	52.4142	5.4573	1.1635	0.4298	0.0001	0.0000	2.53677	2.37873	154.667
D627	162	7.8028	-1.5153	48.2548	5.2287	1.3308	0.4298	0.0001	0.0000	2.54535	2.37997	155.057
MBC5A06V	163	7.8028	-1.5153	48.2548	5.2287	1.3308	0.4298	0.0001	0.0000	2.54535	2.37997	155.057
D633	164	19.2941	-2.6741	23.9894	3.6178	2.5096	0.4298	0.0001	0.0000	2.58124	2.39281	157.800
IPM5A07	165	19.2941	-2.6741	23.9894	3.6178	2.5096	0.4298	0.0001	0.0000	2.58124	2.39281	157.800
D603	166	20.5169	-2.7690	22.3935	3.4859	2.6062	0.4298	0.0001	0.0000	2.58303	2.39435	158.024
MQA5A07	167	20.2172	3.7360	22.4244	-3.5919	2.6098	-0.4055	0.0001	0.0000	2.58534	2.39652	158.324
D604	168	18.8016	3.5931	23.8350	-3.7116	2.5315	-0.4055	0.0001	0.0000	2.58692	2.39785	158.517
MBC5A07H	169	18.8016	3.5931	23.8350	-3.7116	2.5315	-0.4055	0.0001	0.0000	2.58692	2.39785	158.517
D634	170	4.0719	1.4187	51.0067	-5.5336	1.3396	-0.4055	0.0001	0.0000	2.64144	2.41128	161.456
IPM5A08	171	4.0719	1.4187	51.0067	-5.5336	1.3396	-0.4055	0.0001	0.0000	2.64144	2.41128	161.456
D603	172	3.4718	1.2524	53.5243	-5.6728	1.2485	-0.4055	0.0001	0.0000	2.65095	2.41196	161.681
MQA5A08	173	2.9477	0.5250	54.0906	3.8184	1.1589	-0.1948	0.0001	0.0000	2.66603	2.41284	161.981
D627	174	2.6046	0.3565	51.1616	3.7063	1.0830	-0.1948	0.0001	0.0000	2.68846	2.41402	162.370
MBC5A08V	175	2.6046	0.3565	51.1616	3.7063	1.0830	-0.1948	0.0001	0.0000	2.68846	2.41402	162.370
D631	176	3.5327	-0.7271	34.4050	2.9850	0.5951	-0.1948	0.0001	0.0000	2.84304	2.42353	164.875
MBB5A07	177	8.1372	-1.5744	23.4642	2.4655	0.3029	-0.0976	0.0001	0.0000	2.90375	2.43475	166.875
D625	178	16.5021	-2.4607	13.5387	1.8401	-0.1007	-0.0976	0.0001	0.0000	2.93238	2.45265	168.948
MBB5A08	179	27.9320	-3.2525	8.3252	1.2553	0.0038	0.0006	0.0000	0.0000	2.94720	2.48178	170.949
D626	180	48.2456	-4.3589	3.8284	0.0296	0.0054	0.0006	0.0000	0.0000	2.95878	2.56015	173.618
IPM5A09	181	48.2456	-4.3589	3.8284	0.0296	0.0054	0.0006	0.0000	0.0000	2.95878	2.56015	173.618
D603	182	50.2250	-4.4520	3.6510	0.0056	0.0056	0.0006	0.0000	0.0000	2.95950	2.56972	173.843
MQA5A09	183	50.2249	4.4523	3.6525	-0.3651	0.0056	-0.0004	0.0000	0.0000	2.96045	2.58292	174.143
D604	184	48.5204	4.3722	3.8051	-0.4250	0.0055	-0.0004	0.0000	0.0000	2.96107	2.59117	174.336
MBC5A09H	185	48.5204	4.3722	3.8051	-0.4250	0.0055	-0.0004	0.0000	0.0000	2.96107	2.59117	174.336
D635	186	42.5898	4.0814	4.5542	-0.6427	0.0053	-0.0004	0.0000	0.0000	2.96352	2.61812	175.037
ITV5A09	187	42.5898	4.0814	4.5542	-0.6427	0.0053	-0.0004	0.0000	0.0000	2.96352	2.61812	175.037
D624	188	27.9306	3.2527	8.3630	-1.2629	0.0045	-0.0004	0.0000	0.0000	2.97275	2.67062	177.036
MBB5A09	189	16.5003	2.4607	14.6100	-1.8492	0.1018	0.0978	-0.0001	0.0000	2.98757	2.69961	179.037
D625	190	8.1356	1.5743	23.5769	-2.4763	0.3045	0.0978	-0.0001	0.0000	3.01620	2.71742	181.110
MBB5A10	191	3.5316	0.7270	34.5639	-2.9971	0.5971	0.1951	-0.0001	0.0000	3.07693	2.72859	183.111
D626	192	2.7340	-0.4281	52.6185	-3.7679	1.1177	0.1951	-0.0001	0.0000	3.24136	2.73856	185.780
IPM5A10	193	2.7340	-0.4281	52.6185	-3.7679	1.1177	0.1951	-0.0001	0.0000	3.24136	2.73856	185.780
D603	194	2.9482	-0.5253	54.3260	-3.8328	1.1615	0.1951	-0.0001	0.0000	3.25396	2.73923	186.004
MQA5A10	195	3.4725	-1.2529	53.7559	5.6997	1.2513	0.4062	-0.0001	0.0000	3.26904	2.74010	186.304
D627	196	4.5600	-1.5410	49.4132	5.4572	1.4094	0.4062	-0.0001	0.0000	3.28463	2.74131	186.694
MBC5A10V	197	4.5600	-1.5410	49.4132	5.4572	1.4094	0.4062	-0.0001	0.0000	3.28463	2.74131	186.694
D628	198	18.5815	-3.5709	24.1625	3.7486	2.5237	0.4062	-0.0001	0.0000	3.33279	2.75395	189.436
D603	199	20.2233	-3.7372	22.5097	3.6086	2.6149	0.4062	-0.0001	0.0000	3.33463	2.75549	189.661
MQA5A11	200	20.5231	2.7698	22.4769	-3.4957	2.6112	-0.4307	-0.0001	0.0000	3.33694	2.75764	189.961
D604	201	19.4689	2.6882	23.8492	-3.6093	2.5280	-0.4307	-0.0001	0.0000	3.33848	2.75897	190.154
MBC5A11H	202	19.4689	2.6882	23.8492	-3.6093	2.5280	-0.4307	-0.0001	0.0000	3.33848	2.75897	190.154
D636	203	6.6888	1.3514	52.5728	-5.4700	1.1654	-0.4307	-0.0001	0.0000	3.38319	2.77321	193.318
IPM5A12	204	6.6888	1.3514	52.5728	-5.4700	1.1654	-0.4307	-0.0001	0.0000	3.38319	2.77321	193.318
MQA5A12	205	6.2469	0.1475	53.0682	3.8480	1.0660	-0.2354	-0.0001	0.0000	3.39064	2.77411	193.618
D627	206	6.1569	0.0838	50.1177	3.7321	0.9743	-0.2354	-0.0001	0.0000	3.40064	2.77531	194.007
MBC5A12V	207	6.1569	0.0838	50.1177	3.7321	0.9743	-0.2354	-0.0001	0.0000	3.40064	2.77531	194.007
D631	208	6.7629	-0.3258	33.2936	2.9862	0.3848	-0.2354	-0.0001	0.0000	3.46407	2.78507	196.511
MBB5A11	209	8.6817	-0.6333	22.3930	2.4442	0.0122	-0.1376	-0.0001	0.0000	3.50601	2.79675	198.512
D625	210	1										

MBC5A15H	231	18.8072	3.5942	24.0473	-3.7413	2.5315	-0.4053	0.0000	0.0000	3.83691	3.14759	221.791
D634	232	4.0727	1.4192	51.4262	-5.5743	1.3404	-0.4053	0.0001	0.0000	3.89142	3.16090	224.730
IPM5A16	233	4.0727	1.4192	51.4262	-5.5743	1.3404	-0.4053	0.0001	0.0000	3.89142	3.16090	224.730
D603	234	3.4724	1.2529	53.9622	-5.7144	1.2494	-0.4053	0.0001	0.0000	3.90093	3.16158	224.955
MQA5A16	235	2.9481	0.5253	54.5302	3.8544	1.1598	-0.1944	0.0001	0.0000	3.91601	3.16245	225.255
D627	236	2.6047	0.3569	51.5737	3.7412	1.0841	-0.1944	0.0001	0.0000	3.93844	3.16362	225.644
MBC5A16V	237	2.6047	0.3569	51.5737	3.7412	1.0841	-0.1944	0.0001	0.0000	3.93844	3.16362	225.644
D631	238	3.5316	-0.7270	34.6596	3.0130	0.5972	-0.1944	0.0001	0.0000	4.09304	3.17305	228.148
MBB5A15	239	8.1359	-1.5744	23.6165	2.4884	0.3059	-0.0972	0.0001	0.0000	4.15377	3.18420	230.149
D625	240	16.5010	-2.4608	14.6082	1.8571	0.1044	-0.0972	0.0001	0.0000	4.18240	3.20200	232.222
MBB5A16	241	27.9318	-3.2528	8.3380	1.2666	0.0084	0.0010	0.0001	0.0000	4.19722	3.23104	234.223
D626	242	48.2475	-4.3594	3.8019	0.4330	0.0110	0.0010	0.0000	0.0000	4.20880	3.30964	236.892
IPM5A17	243	48.2475	-4.3594	3.8019	0.4330	0.0110	0.0010	0.0000	0.0000	4.20880	3.30964	236.892
D603	244	50.2271	-4.4525	3.6231	0.3629	0.0112	0.0010	0.0000	0.0000	4.20953	3.31927	237.116
MQA5A17	245	50.2271	4.4522	3.6217	-0.3578	0.0112	-0.0010	0.0000	0.0000	4.21047	3.33259	237.416
D604	246	48.5227	4.3721	3.7715	-0.4180	0.0110	-0.0010	0.0000	0.0000	4.21109	3.34091	237.609
MBC5A17H	247	48.5227	4.3721	3.7715	-0.4180	0.0110	-0.0010	0.0000	0.0000	4.21109	3.34091	237.609
D635	248	42.5922	4.0813	4.5113	-0.6365	0.0104	-0.0010	0.0000	0.0000	4.21355	3.36811	238.311
ITV5A17	249	42.5922	4.0813	4.5113	-0.6365	0.0104	-0.0010	0.0000	0.0000	4.21355	3.36811	238.311
D624	250	27.9331	3.2527	8.3001	-1.2591	0.0084	-0.0010	0.0000	0.0000	4.22277	3.42107	240.310
MBB5A17	251	16.5027	2.4608	14.5369	-1.8480	0.1045	0.0972	0.0001	0.0000	4.23759	3.45024	242.311
D625	252	8.1374	1.5745	23.5038	-2.4775	0.3059	0.0972	0.0001	0.0000	4.26622	3.46813	244.384
MBB5A18	253	3.5327	0.7272	34.5008	-3.0009	0.5972	0.1944	0.0001	0.0000	4.32693	3.47933	246.384
D626	254	2.7336	-0.4278	52.5843	-3.7749	1.1161	0.1944	0.0001	0.0000	4.49133	3.48931	249.053
IPM5A18	255	2.7336	-0.4278	52.5843	-3.7749	1.1161	0.1944	0.0001	0.0000	4.49133	3.48931	249.053
D603	256	2.9476	-0.5250	54.2950	-3.8400	1.1598	0.1944	0.0001	0.0000	4.50394	3.48998	249.278
MQA5A18	257	3.4717	-1.2525	53.7308	5.6876	1.2494	0.4053	0.0001	0.0000	4.51902	3.49086	249.578
D627	258	4.5588	-1.5404	49.3971	5.4460	1.4072	0.4053	0.0001	0.0000	4.53462	3.49206	249.967
MBC5A18V	259	4.5588	-1.5404	49.3971	5.4460	1.4072	0.4053	0.0001	0.0000	4.53462	3.49206	249.967
D628	260	18.5759	-3.5699	24.1909	3.7436	2.5188	0.4053	0.0000	0.0000	4.58279	3.50470	252.710
D603	261	20.2172	-3.7361	22.5402	3.6041	2.6099	0.4053	0.0000	0.0000	4.58463	3.50623	252.935
MQA5A19	262	20.5169	2.7689	22.5130	-3.5106	2.6061	-0.4300	0.0000	0.0000	4.58694	3.50838	253.235
D604	263	19.4630	2.6873	23.8913	-3.6249	2.5231	-0.4300	0.0000	0.0000	4.58848	3.50971	253.428
MBC5A19H	264	19.4630	2.6873	23.8913	-3.6249	2.5231	-0.4300	0.0000	0.0000	4.58848	3.50971	253.428
D636	265	6.6873	1.3509	52.7512	-5.4974	1.1627	-0.4300	0.0000	0.0000	4.63320	3.52391	256.592
IPM5A20	266	6.6873	1.3509	52.7512	-5.4974	1.1627	-0.4300	0.0000	0.0000	4.63320	3.52391	256.592
MQA5A20	267	6.2456	0.1472	53.2535	8.8527	1.0633	-0.2352	0.0000	0.0000	4.64066	3.52480	256.892
D627	268	6.1558	0.0835	50.2993	3.7369	0.9718	-0.2352	0.0000	0.0000	4.65065	3.52600	257.281
MBC5A20V	269	6.1558	0.0835	50.2993	3.7369	0.9718	-0.2352	0.0000	0.0000	4.65065	3.52600	257.281
D631	270	6.7633	-0.3261	33.4490	2.9918	0.3828	-0.2352	0.0000	0.0000	4.71409	3.53572	259.785
MBB5A19	271	8.6835	-0.6337	22.5235	2.4510	0.1016	-0.1373	0.0000	0.0000	4.75603	3.54735	261.786
D625	272	12.0043	-0.9683	13.6986	1.8060	-0.2741	-0.1373	0.0000	0.0000	4.78857	3.56617	263.859
MBB5A20	273	16.4497	-1.2538	7.6631	1.2007	-0.4496	-0.0382	0.0000	0.0000	4.81125	3.59748	265.860
D626	274	24.2558	-1.6711	3.5236	0.3503	-0.5516	-0.0382	0.0000	0.0000	4.83258	3.68332	268.528
IPM5A21	275	24.2558	-1.6711	3.5236	0.3503	-0.5516	-0.0382	0.0000	0.0000	4.83258	3.68332	268.528
D603	276	25.0145	-1.7062	3.3823	0.2788	-0.5602	-0.0382	0.0000	0.0000	4.83403	3.69369	268.753
MQA5A21	277	25.0145	1.7063	3.3799	-0.2705	-0.5602	0.0385	0.0000	0.0000	4.83593	3.70792	269.053
D627	278	23.7099	1.6454	3.6385	-0.3941	-0.5452	0.0385	0.0000	0.0000	4.83847	3.72562	269.442
MBC5A21H	279	23.7099	1.6454	3.6385	-0.3941	-0.5452	0.0385	0.0000	0.0000	4.83847	3.72562	269.442
D631	280	16.4495	1.2538	7.6034	-1.1892	-0.4489	0.0385	-0.0001	0.0000	4.85871	3.80460	271.947
MBB5A21	281	12.0039	0.9683	13.5889	-1.7926	-0.2730	0.1376	-0.0001	0.0000	4.88139	3.83616	273.947
D625	282	8.6831	0.6337	22.3535	-2.4353	0.1021	-0.1376	-0.0001	0.0000	4.91394	3.85513	276.020
MBB5A22	283	6.7629	0.3261	33.2132	-2.9747	0.3848	0.2354	-0.0001	0.0000	4.95588	3.86684	278.021
D637	284	6.2454	-0.1472	52.9103	-3.8327	1.0659	0.2354	-0.0001	0.0000	5.02931	3.87783	280.915
IPM5A22	285	6.2454	-0.1472	52.9103	-3.8327	1.0659	0.2354	-0.0001	0.0000	5.02931	3.87783	280.915
MQA5A22	286	6.6871	-1.3509	52.4142	5.4573	1.1654	0.4307	-0.0001	0.0000	5.03677	3.87873	281.215
D627	287	7.8028	-1.5153	48.2548	5.2287	1.3331	0.4307	-0.0001	0.0000	5.04535	3.87997	281.604
MBC5A22V	288	7.8028	-1.5153	48.2548	5.2287	1.3331	0.4307	-0.0001	0.0000	5.04535	3.87997	281.604
D633	289	19.2941	-2.6741	23.9894	3.6178	2.5144	0.4307	-0.0001	0.0000	5.08123	3.89281	284.347
D603	290	20.5169	-2.7690	22.3935	3.4859	2.6112	0.4307	-0.0001	0.0000	5.08303	3.89435	284.572
MQA5A23	291	20.2172	3.7360	22.4244	-3.5919	2.6149	-0.4062	-0.0001	0.0000	5.08534	3.89652	284.872
D604	292	18.8016	3.5931	23.8350	-3.7116	2.5364	-0.4062	-0.0001	0.0000	5.08691	3.89785	285.065
MBC5A23H	293	18.8016	3.5931	23.8350	-3.7116	2.5364	-0.4062	-0.0001	0.0000	5.08691	3.89785	285.065
D634	294	4.0719	1.4187	51.0067	-5.5336	1.3425	-0.4062	-0.0001	0.0000	5.14143	3.91128	288.004
IPM5A24	295	4.0719	1.4187	51.0067	-5.5336	1.3425	-0.4062	-0.0001	0.0000	5.14143	3.91128	288.004
D603	296	3.4718	1.2524	53.5243	-5.6728	1.2513	-0.4062	-0.0001	0.0000	5.15095	3.91196	288.228
MQA5A24	297	2.9477	0.5250	54.0906	3.8184	1.1615	-0.1950	-0.0001	0.0000	5.16603	3.91284	288.528
D627	298	2.6046	0.3565	51.1616	3.7063	1.0856	-0.1950	-0.0001	0.0000	5.18846	3.91402	288.918
MBC5A24V	299	2.6046	0.3565	51.1616	3.7063	1.0856	-0.1950	-0.0001	0.0000	5.18846	3.91402	288.918
D631	300	3.5327	-0.7271	34.4050	2.9850	0.5971	-0.1950	-0.0001	0.0000	5.34303	3.92353	291.422
MBB5A23	301	8.1372	-1.5744	23.4642	2.4655	0.3045	-0.0978	-0.0001	0.0000	5.40375	3.93475	293.423
D625	302	16.5021	-2.4607	14.5387	1.8401	0.1018	-0.0978	-0.0001	0.0000	5.43237	3.95265	295.496
MBB5A24	303	27.9320	-3.2525	8.3252	1.2553	0.0045	0.0004	0.0000	0.0000	5.44719	3.98178	297.496
D626	304	48.2456	-4.3589	3.8284	0.4296	0.0056	0.0004	0.0000	0.0000	5.45877	4.06015	300.165
IPM5A25	305	48.2456	-4.3589	3.8284	0.4296	0.0056	0.0004	0.0000	0.0000	5.45877	4.06015	300.165
D603	306	50.2250	-4.4520	3.6510	0.3601	0.0057	0.0004	0.0000	0.0000	5.45950	4.06972	300.390
MQA5A25	307	50.2249	4.4523	3.6525	-0.3651	0.0056	-0.0006	0.0000	0.0000	5.46044	4.08292	300.690
D604	308	48.5204	4.3722	3.8051	-0.4250	0.0055	-0.0006	0.0000	0.0000	5.46106	4.09117	300.883
MBC5A25H	309	48.5204	4.3722	3.8051	-0.4250	0.0055	-0.0006	0.0000	0.0000	5.46106	4.09117	300.883
D635	310	42.5898	4.0814	4.5542	-0.6427	0.0051	-0.0006	0.0000	0.0000	5.46352	4.11812	301.585
ITV5A25	311	42.5898	4.0814	4.5542	-0.6427	0.0051	-0.0006	0.0000	0.0000	5.46352	4.11812	301.585
D624	312	27.9306	3.2527	8.3630	-1.2629	0.0039	-0.0006	0.0000	0.0000	5.47275	4.17062	303.583
MBB5A25	313	16.5003	2.4607	14.6100	-1.8492	0.1007	0.0976	0.0001	0.0000	5.48757	4.19961	305.584
D625	314	8.1356										

MBB5A28	335	16.4448	-1.2534	7.5937	1.1924	-0.4451	-0.0378	0.0001	0.0000	6.06125	4.34727	329.133
D626	336	24.2484	-1.6706	3.5007	0.3412	-0.5461	-0.0378	0.0000	0.0000	6.08258	4.43386	331.802
IPM5A29	337	24.2484	-1.6706	3.5007	0.3412	-0.5461	-0.0378	0.0000	0.0000	6.08258	4.43386	331.802
D603	338	25.0069	-1.7057	3.3634	0.2696	-0.5546	-0.0378	0.0000	0.0000	6.08403	4.44429	332.027
MQA5A29	339	25.0069	1.7057	3.3659	-0.2778	-0.5546	0.0381	0.0000	0.0000	6.08593	4.45860	332.327
D604	340	24.3538	1.6755	3.4851	-0.3397	-0.5472	0.0381	0.0000	0.0000	6.08718	4.46758	332.520
MBC5A29H	341	24.3538	1.6755	3.4851	-0.3397	-0.5472	0.0381	0.0000	0.0000	6.08718	4.46758	332.520
D632	342	16.4449	1.2534	7.6531	-1.2039	-0.4444	0.0381	0.0000	0.0000	6.10872	4.55515	335.220
MBB5A29	343	12.0012	0.9678	13.7069	-1.8120	-0.2693	0.1372	0.0000	0.0000	6.13141	4.58646	337.221
D625	344	8.6819	0.6333	22.5625	-2.4598	0.0151	0.1372	0.0000	0.0000	6.16396	4.60527	339.294
MBB5A30	345	6.7631	0.3258	33.5287	-3.0033	0.3869	0.2350	0.0000	0.0000	6.20590	4.61686	341.295
D637	346	6.2470	-0.1474	53.4103	-3.8679	1.0669	0.2350	-0.0001	0.0000	6.27932	4.62776	344.188
IPM5A30	347	6.2470	-0.1474	53.4103	-3.8679	1.0669	0.2350	-0.0001	0.0000	6.27932	4.62776	344.188
MQA5A30	348	6.6890	-1.3514	52.9088	5.5099	1.1663	0.4305	-0.0001	0.0000	6.28678	4.62865	344.488
D627	349	7.8050	-1.5159	48.7093	5.2792	1.3338	0.4305	-0.0001	0.0000	6.29536	4.62987	344.878
MBC5A30V	350	7.8050	-1.5159	48.7093	5.2792	1.3338	0.4305	-0.0001	0.0000	6.29536	4.62987	344.878
D633	351	19.2999	-2.6749	24.2076	3.6535	2.5146	0.4305	0.0000	0.0000	6.33123	4.64259	347.621
D603	352	20.5231	-2.7698	22.5960	3.5203	2.6113	0.4305	0.0000	0.0000	6.33302	4.64412	347.845
MQA5A31	353	20.2233	3.7372	22.6253	-3.6209	2.6149	-0.4065	0.0000	0.0000	6.33533	4.64627	348.145
D604	354	18.8072	3.5942	24.0473	-3.7413	2.5364	-0.4065	0.0000	0.0000	6.33691	4.64758	348.338
MBC5A31H	355	18.8072	3.5942	24.0473	-3.7413	2.5364	-0.4065	0.0000	0.0000	6.33691	4.64758	348.338
D634	356	4.0727	1.4192	51.4262	-5.5743	1.3418	-0.4065	-0.0001	0.0000	6.39141	4.66090	351.277
IPM5A32	357	4.0727	1.4192	51.4262	-5.5743	1.3418	-0.4065	-0.0001	0.0000	6.39141	4.66090	351.277
D603	358	3.4724	1.2529	53.9622	-5.7144	1.2504	-0.4065	-0.0001	0.0000	6.40093	4.66158	351.502
MQA5A32	359	2.9481	0.5253	54.5302	3.8544	1.1606	-0.1955	-0.0001	0.0000	6.41600	4.66245	351.802
D627	360	2.6047	0.3569	51.5737	3.7412	1.0845	-0.1955	-0.0001	0.0000	6.43843	4.66362	352.191
MBC5A32V	361	2.6047	0.3569	51.5737	3.7412	1.0845	-0.1955	-0.0001	0.0000	6.43843	4.66362	352.191
D631	362	3.5316	-0.7270	34.6596	3.0130	0.5950	-0.1955	-0.0001	0.0000	6.59304	4.67305	354.695
MBB5A31	363	8.1359	-1.5744	23.6165	2.4884	0.3016	-0.0982	-0.0001	0.0000	6.65377	4.68420	356.696
D625	364	16.5010	-2.4608	14.6082	1.8571	0.0981	-0.0982	-0.0001	0.0000	6.68240	4.70200	358.769
MBB5A32	365	27.9318	-3.2528	8.3380	1.2666	0.0000	0.0000	-0.0001	0.0000	6.69721	4.73104	360.770
D626	366	48.2475	-4.3594	3.8019	0.4330	0.0000	0.0000	0.0000	0.0000	6.70880	4.80963	363.439
IPM5R01	367	48.2475	-4.3594	3.8019	0.4330	0.0000	0.0000	0.0000	0.0000	6.70880	4.80963	363.439
D603	368	50.2271	-4.4525	3.6231	0.3629	0.0000	0.0000	0.0000	0.0000	6.70952	4.81927	363.664
MQA5R01	369	50.5182	3.4974	3.6008	-0.2872	0.0000	0.0000	0.0000	0.0000	6.71046	4.83261	363.964
D604	370	49.1769	3.4468	3.7230	-0.3453	0.0000	0.0000	0.0000	0.0000	6.71108	4.84101	364.157
MBC5R01H	371	49.1769	3.4468	3.7230	-0.3453	0.0000	0.0000	0.0000	0.0000	6.71108	4.84101	364.157
D635	372	44.4696	3.2631	4.3554	-0.5562	0.0000	0.0000	0.0000	0.0000	6.71347	4.86888	364.858
ITV5R01	373	44.4696	3.2631	4.3554	-0.5562	0.0000	0.0000	0.0000	0.0000	6.71347	4.86888	364.858
D638	374	29.3722	2.5871	9.2282	-1.3320	0.0000	0.0000	0.0000	0.0000	6.72484	4.93561	367.439
IPM5R02	375	29.3722	2.5871	9.2282	-1.3320	0.0000	0.0000	0.0000	0.0000	6.72484	4.93561	367.439
D603	376	28.2230	2.5283	9.8418	-1.3995	0.0000	0.0000	0.0000	0.0000	6.72608	4.93936	367.664
MQA5R02	377	27.8461	-1.2549	10.2929	-0.0838	0.0000	0.0000	0.0000	0.0000	6.72780	4.94407	367.964
D604	378	28.3343	-1.2728	10.3289	-0.1027	0.0000	0.0000	0.0000	0.0000	6.72889	4.94705	368.157
MBC5R02H	379	28.3343	-1.2728	10.3289	-0.1027	0.0000	0.0000	0.0000	0.0000	6.72889	4.94705	368.157
D605	380	28.8370	-1.2909	10.3729	-0.1218	0.0000	0.0000	0.0000	0.0000	6.72998	4.95007	368.353
MBC5R02V	381	28.8370	-1.2909	10.3729	-0.1218	0.0000	0.0000	0.0000	0.0000	6.72998	4.95007	368.353
D617	382	37.6854	-1.5763	12.0568	-0.4238	0.0000	0.0000	0.0000	0.0000	6.74490	4.99457	371.439
IPM5R03	383	37.6854	-1.5763	12.0568	-0.4238	0.0000	0.0000	0.0000	0.0000	6.74490	4.99457	371.439
D603	384	38.3983	-1.5970	12.2521	-0.4458	0.0000	0.0000	0.0000	0.0000	6.74584	4.99751	371.664
MQA5R03	385	37.9922	3.5897	13.0430	-2.2261	0.0000	0.0000	0.0000	0.0000	6.74709	5.00131	371.964
D604	386	36.4192	3.5187	13.9200	-2.3143	0.0000	0.0000	0.0000	0.0000	6.74792	5.00359	372.157
MBC5R03H	387	36.4192	3.5187	13.9200	-2.3143	0.0000	0.0000	0.0000	0.0000	6.74792	5.00359	372.157
D639	388	17.2792	2.3128	34.0313	-3.8131	0.0000	0.0000	0.0000	0.0000	6.76880	5.02768	375.439
IPM5R04	389	17.2792	2.3128	34.0313	-3.8131	0.0000	0.0000	0.0000	0.0000	6.76880	5.02768	375.439
D603	390	16.2586	2.2302	35.7676	-3.9156	0.0000	0.0000	0.0000	0.0000	6.77093	5.02871	375.664
MQA5R04	391	15.5216	0.2562	36.8116	0.4780	0.0000	0.0000	0.0000	0.0000	6.77396	5.03002	375.964
D604	392	15.4252	0.2429	36.6282	0.4715	0.0000	0.0000	0.0000	0.0000	6.77595	5.03085	376.157
MBC5R04H	393	15.4252	0.2429	36.6282	0.4715	0.0000	0.0000	0.0000	0.0000	6.77595	5.03085	376.157
D605	394	15.3326	0.2295	36.4446	0.4650	0.0000	0.0000	0.0000	0.0000	6.77798	5.03171	376.353
MBC5R04V	395	15.3326	0.2295	36.4446	0.4650	0.0000	0.0000	0.0000	0.0000	6.77798	5.03171	376.353
D640	396	14.5657	0.0022	33.7315	0.3545	0.0000	0.0000	0.0000	0.0000	6.81353	5.04676	379.664
MQA5R05	397	15.1589	-2.0055	32.2008	4.6796	0.0000	0.0000	0.0000	0.0000	6.81676	5.04820	379.964
D641	398	21.7977	-2.4943	19.9405	3.6305	0.0000	0.0000	0.0000	0.0000	6.82970	5.05747	381.439
IPM5R06	399	21.7977	-2.4943	19.9405	3.6305	0.0000	0.0000	0.0000	0.0000	6.82970	5.05747	381.439
D603	400	22.9351	-2.5687	18.3452	3.4707	0.0000	0.0000	0.0000	0.0000	6.83130	5.05934	381.664
MQA5R06	401	21.9214	5.8209	18.3002	-3.3151	0.0000	0.0000	0.0000	0.0000	6.83339	5.06199	381.964
D604	402	19.7322	5.5135	19.6052	-3.4416	0.0000	0.0000	0.0000	0.0000	6.83486	5.06362	382.157
MBC5R06H	403	19.7322	5.5135	19.6052	-3.4416	0.0000	0.0000	0.0000	0.0000	6.83486	5.06362	382.157
D635	404	12.7793	4.3972	24.7566	-3.9012	0.0000	0.0000	0.0000	0.0000	6.84190	5.06869	382.858
ITV5R06	405	12.7793	4.3972	24.7566	-3.9012	0.0000	0.0000	0.0000	0.0000	6.84190	5.06869	382.858
D642	406	6.7291	3.1157	31.4648	-4.4288	0.0000	0.0000	0.0000	0.0000	6.85574	5.07328	383.664
MQA5R07	407	5.5223	1.0281	31.2469	5.1331	0.0000	0.0000	0.0000	0.0000	6.86369	5.07478	383.964
D627	408	4.7784	0.8831	27.3835	4.7924	0.0000	0.0000	0.0000	0.0000	6.87576	5.07690	384.353
MBC5R07V	409	4.7784	0.8831	27.3835	4.7924	0.0000	0.0000	0.0000	0.0000	6.87576	5.07690	384.353
D643	410	3.9886	0.6969	22.8111	4.3549	0.0000	0.0000	0.0000	0.0000	6.89402	5.08008	384.853
MAC5R01	411	2.9512	0.3378	15.0263	3.4422	0.0000	0.0000	-0.0240	-0.0481	6.94110	5.08868	385.853
D30083	412	5.2190	-0.9850	1.4021	0.4460	0.0000	0.0000	-0.1927	-0.0481	7.11675	5.22691	389.357
MAC5R03	413	7.5368	-1.3269	1.3675	-0.4113	0.0000	0.0000	-0.2170	-0.0006	7.14223	5.35530	390.357
D644	414	8.7512	-1.4851	1.8821	-0.7805	0.0000	0.0000	-0.2172	-0.0006	7.15070	5.39867	390.789
MBC5R08H	415	8.7512	-1.4851	1.8821	-0.7805	0.0000	0.0000	-0.2172	-0.0006	7.15070	5.39867	390.789
D604	416	9.3386	-1.5559	2.2155	-0.9456	0.0000	0.0000	-0.2173	-0.0006	7.15410	5.41375	390.982
MQA5R08	417	11.9108	-7.4517	2.4773	0.1182	0.0000	0.0000	-0.2010	0.1077	7.15875	5.43367	391.282
D603												

MAQ5R06 439 47.7930 -0.8446 50.3060 1.0989 0.0000 0.0000 0.0002 -0.0001 7.23177 5.63852 408.323

MAXIMUM LATTICE FUNCTIONS :
BETA X = 0.3499967598E+03 BETA Y = 0.9182292524E+02
ETA X = 0.2614926078E+01 ETA Y = 0.7948007436E+00

1
OPERATION LIST ,

MATRIX

1 -1,

AFTER :MAQ5R06 ELEMENT #: 439

* TRANSFORMATION MATRIX *

FIRST ORDER MATRIX

- 0.1898635E+01 0.4842378E+02 -0.1237721E-13 -0.2247171E-13 0.0000000E+00 0.3550620E-07
- 0.1747114E-01 0.9722874E+00 -0.1394540E-15 0.1102639E-13 0.0000000E+00 0.6274743E-08
- 0.9632779E-14 -0.1089181E-13 -0.3606136E+00 -0.4001214E+02 0.0000000E+00 0.1749586E-03
- -0.5820077E-15 -0.1383512E-13 0.2682592E-01 0.2034385E+00 0.0000000E+00 -0.1494518E-03
- 0.1129311E-07 0.2693245E-06 0.4920090E-04 0.5944292E-02 0.1000000E+01 -0.1096018E-02
- 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.1000000E+01

HORIZONTAL MOVEMENT ANALYSIS

COMPACTION FACTOR = -0.2684195E-05 GAMMA TR = -0.6103697E+03

MOVEMENT IS UNSTABLE

HALF-TRACE = 0.14354611075800E+01
EIGENVALUE1 = 0.24652905067402E+01
WITH EIGENVECTOR :
X = -0.99993153847338E+00 XP = -0.11701212170769E-01
EIGENVALUE2 = 0.40563170841974E+00
WITH EIGENVECTOR :
X = -0.99952503167827E+00 XP = 0.30817382247029E-01

VERTICAL MOVEMENT ANALYSIS

COS(MU) = -0.78587548961146E-01 NU = 0.73747949271212E+00
ETA = 0.28366960712175E-02 ETAP = -0.92089259966459E-04
ALPHA = 0.28290095590027E+00 BETA = 0.40136274435556E+02

1
OPERATION LIST ,

HARDWARE

5.57249 2867.7 80.6 100 90.5537 0 0.0 0 1 0 ;

VALUES ARE FOR ENERGY : 0.557E+01 GEV

THE LENGTHS ARE MEASURED IN METERS ,THE ANGLES IN DEGREES

THE SKYZ COORDINATES ,AZIMUTH,ELEVATION AND ROLL ANGLES ARE :

#	NAME	S	X	Y	Z	THETA	PHI	PSI
1	MAQ5S01	2868.7008000000	80.6000000000	100.0347145469	91.5536967911	0.0000000000	3.9764100000	0.0000000000
2	D30077	2869.7032200000	80.6000000000	100.1042281113	92.5537036515	0.0000000000	3.9764100000	0.0000000000
3	MAS5S02	2870.7085800000	80.6000000000	100.2061612747	93.5537084041	0.0000000000	7.6640100000	0.0000000000
4	D30078	2874.0353000000	80.6000000000	100.6498248925	96.8507113693	0.0000000000	7.6640100000	0.0000000000
5	MAU5S03	2876.0367900000	80.6000000000	100.7834872811	98.8462381539	0.0000000000	0.0000000000	0.0000000000
6	D602A	2876.1161300000	80.6000000000	100.7834872811	98.9255781539	0.0000000000	0.0000000000	0.0000000000
7	IPM5S01	2876.1161300000	80.6000000000	100.7834872811	98.9255781539	0.0000000000	0.0000000000	0.0000000000
8	D603	2876.3407800000	80.6000000000	100.7834872811	99.1502281539	0.0000000000	0.0000000000	0.0000000000
9	MQA5S01	2876.6407800000	80.6000000000	100.7834872811	99.4502281539	0.0000000000	0.0000000000	0.0000000000
10	D604	2876.8339300000	80.6000000000	100.7834872811	99.6433781539	0.0000000000	0.0000000000	0.0000000000
11	MBC5S01H	2876.8339300100	80.6000000000	100.7834872811	99.6433781639	0.0000000000	0.0000000000	0.0000000000
12	D605	2877.0300200100	80.6000000000	100.7834872811	99.8394681639	0.0000000000	0.0000000000	0.0000000000
13	MBC5S01V	2877.0300200200	80.6000000000	100.7834872811	99.8394681739	0.0000000000	0.0000000000	0.0000000000
14	D606	2877.5354800200	80.6000000000	100.7834872811	100.3449281739	0.0000000000	0.0000000000	0.0000000000
15	ITV5S01	2877.5354800200	80.6000000000	100.7834872811	100.3449281739	0.0000000000	0.0000000000	0.0000000000
16	D607	2881.9961300200	80.6000000000	100.7834872811	104.8055781739	0.0000000000	0.0000000000	0.0000000000
17	IPM5S02	2881.9961300200	80.6000000000	100.7834872811	104.8055781739	0.0000000000	0.0000000000	0.0000000000
18	D603	2882.2207800200	80.6000000000	100.7834872811	105.0302281739	0.0000000000	0.0000000000	0.0000000000
19	MQA5S02	2882.5207800200	80.6000000000	100.7834872811	105.3302281739	0.0000000000	0.0000000000	0.0000000000
20	D608	2883.0756300300	80.6000000000	100.7834872811	105.8850781839	0.0000000000	0.0000000000	0.0000000000
21	MBC5S02H	2883.0756300300	80.6000000000	100.7834872811	105.8850781839	0.0000000000	0.0000000000	0.0000000000
22	D609	2884.5161300300	80.6000000000	100.7834872811	107.3255781839	0.0000000000	0.0000000000	0.0000000000
23	IPM5S03	2884.5161300300	80.6000000000	100.7834872811	107.3255781839	0.0000000000	0.0000000000	0.0000000000
24	D603	2884.7407800300	80.6000000000	100.7834872811	107.5502281839	0.0000000000	0.0000000000	0.0000000000
25	MQA5S03	2885.0407800300	80.6000000000	100.7834872811	107.8502281839	0.0000000000	0.0000000000	0.0000000000
26	D604	2885.2339300300	80.6000000000	100.7834872811	108.0433781839	0.0000000000	0.0000000000	0.0000000000
27	MBC5S03H	2885.2339300400	80.6000000000	100.7834872811	108.0433781939	0.0000000000	0.0000000000	0.0000000000
28	D610	2885.6657900400	80.6000000000	100.7834872811	108.4752381939	0.0000000000	0.0000000000	0.0000000000

29	MAC5S04	2886.6658900400	80.6000000000	100.8075280974	109.4749528212	0.0000000000	2.7551300000	0.0000000000
30	D30083	2890.1699400400	80.6000000000	100.9759592331	112.9749524434	0.0000000000	2.7551300000	0.0000000000
31	MAC5S06	2891.1700400400	80.6000000000	101.0000000494	113.9746670707	0.0000000000	0.0000000000	0.0000000000
32	D612	2892.0591550400	80.6000000000	101.0000000494	114.8637820707	0.0000000000	0.0000000000	0.0000000000
33	MQA5S04	2892.3591550400	80.6000000000	101.0000000494	115.1637820707	0.0000000000	0.0000000000	0.0000000000
34	D613	2893.2538550400	80.6000000000	101.0000000494	116.0584820707	0.0000000000	0.0000000000	0.0000000000
35	ITV5S04	2893.2538550400	80.6000000000	101.0000000494	116.0584820707	0.0000000000	0.0000000000	0.0000000000
36	D614	2893.8345050400	80.6000000000	101.0000000494	116.6391320707	0.0000000000	0.0000000000	0.0000000000
37	IPM5S05	2893.8345050400	80.6000000000	101.0000000494	116.6391320707	0.0000000000	0.0000000000	0.0000000000
38	D603	2894.0591550400	80.6000000000	101.0000000494	116.6391320707	0.0000000000	0.0000000000	0.0000000000
39	MQA5S05	2894.3591550400	80.6000000000	101.0000000494	117.1637820707	0.0000000000	0.0000000000	0.0000000000
40	D604	2894.5523050400	80.6000000000	101.0000000494	117.3569320707	0.0000000000	0.0000000000	0.0000000000
41	MBC5S05H	2894.5523050500	80.6000000000	101.0000000494	117.3569320807	0.0000000000	0.0000000000	0.0000000000
42	D605	2894.7483950500	80.6000000000	101.0000000494	117.5530220807	0.0000000000	0.0000000000	0.0000000000
43	MBC5S05V	2894.7483950600	80.6000000000	101.0000000494	117.5530220907	0.0000000000	0.0000000000	0.0000000000
44	D615	2896.0591550600	80.6000000000	101.0000000494	118.8637820907	0.0000000000	0.0000000000	0.0000000000
45	MQA5S06	2896.3591550600	80.6000000000	101.0000000494	119.1637820907	0.0000000000	0.0000000000	0.0000000000
46	D616	2899.8345050600	80.6000000000	101.0000000494	122.6391320907	0.0000000000	0.0000000000	0.0000000000
47	IPM5S07	2899.8345050600	80.6000000000	101.0000000494	122.6391320907	0.0000000000	0.0000000000	0.0000000000
48	D603	2900.0591550600	80.6000000000	101.0000000494	122.8637820907	0.0000000000	0.0000000000	0.0000000000
49	MQA5S07	2900.3591550600	80.6000000000	101.0000000494	123.1637820907	0.0000000000	0.0000000000	0.0000000000
50	D604	2900.5523050600	80.6000000000	101.0000000494	123.3569320907	0.0000000000	0.0000000000	0.0000000000
51	MBC5S07H	2900.5523050700	80.6000000000	101.0000000494	123.3569321007	0.0000000000	0.0000000000	0.0000000000
52	D605	2900.7483950700	80.6000000000	101.0000000494	123.5530221007	0.0000000000	0.0000000000	0.0000000000
53	MBC5S07V	2900.7483950800	80.6000000000	101.0000000494	123.5530221107	0.0000000000	0.0000000000	0.0000000000
54	D617	2903.8345050800	80.6000000000	101.0000000494	126.6391321107	0.0000000000	0.0000000000	0.0000000000
55	IPM5S08	2903.8345050800	80.6000000000	101.0000000494	126.6391321107	0.0000000000	0.0000000000	0.0000000000
56	D603	2904.0591550800	80.6000000000	101.0000000494	126.8637821107	0.0000000000	0.0000000000	0.0000000000
57	MQA5S08	2904.3591550800	80.6000000000	101.0000000494	127.1637821107	0.0000000000	0.0000000000	0.0000000000
58	D604	2904.5523050800	80.6000000000	101.0000000494	127.3569321107	0.0000000000	0.0000000000	0.0000000000
59	MBC5S08H	2904.5523050900	80.6000000000	101.0000000494	127.3569321207	0.0000000000	0.0000000000	0.0000000000
60	D605	2904.7483950900	80.6000000000	101.0000000494	127.5530221207	0.0000000000	0.0000000000	0.0000000000
61	MBC5S08V	2904.7483951000	80.6000000000	101.0000000494	127.5530221307	0.0000000000	0.0000000000	0.0000000000
62	D617	2907.8345051000	80.6000000000	101.0000000494	130.6391321307	0.0000000000	0.0000000000	0.0000000000
63	IPM5S09	2907.8345051000	80.6000000000	101.0000000494	130.6391321307	0.0000000000	0.0000000000	0.0000000000
64	D603	2908.0591551000	80.6000000000	101.0000000494	130.8637821307	0.0000000000	0.0000000000	0.0000000000
65	MQA5S09	2908.3591551000	80.6000000000	101.0000000494	131.1637821307	0.0000000000	0.0000000000	0.0000000000
66	D604	2908.5523051000	80.6000000000	101.0000000494	131.3569321307	0.0000000000	0.0000000000	0.0000000000
67	MBC5S09H	2908.5523051100	80.6000000000	101.0000000494	131.3569321407	0.0000000000	0.0000000000	0.0000000000
68	D605	2908.7483951100	80.6000000000	101.0000000494	131.5530221407	0.0000000000	0.0000000000	0.0000000000
69	MBC5S09V	2908.7483951200	80.6000000000	101.0000000494	131.5530221507	0.0000000000	0.0000000000	0.0000000000
70	D617	2911.8345051200	80.6000000000	101.0000000494	134.6391321507	0.0000000000	0.0000000000	0.0000000000
71	IPM5S10	2911.8345051200	80.6000000000	101.0000000494	134.6391321507	0.0000000000	0.0000000000	0.0000000000
72	D603	2912.0591551200	80.6000000000	101.0000000494	134.8637821507	0.0000000000	0.0000000000	0.0000000000
73	MQA5S10	2912.3591551200	80.6000000000	101.0000000494	135.1637821507	0.0000000000	0.0000000000	0.0000000000
74	D604	2912.5523051200	80.6000000000	101.0000000494	135.3569321507	0.0000000000	0.0000000000	0.0000000000
75	MBC5S10H	2912.5523051300	80.6000000000	101.0000000494	135.3569321607	0.0000000000	0.0000000000	0.0000000000
76	D605	2912.7483951300	80.6000000000	101.0000000494	135.5530221607	0.0000000000	0.0000000000	0.0000000000
77	MBC5S10V	2912.7483951400	80.6000000000	101.0000000494	135.5530221707	0.0000000000	0.0000000000	0.0000000000
78	D618	2928.3844951400	80.6000000000	101.0000000494	151.1891221707	0.0000000000	0.0000000000	0.0000000000
79	IPM5E01	2928.3844951400	80.6000000000	101.0000000494	151.1891221707	0.0000000000	0.0000000000	0.0000000000
80	D619	2928.6841351400	80.6000000000	101.0000000494	151.4887621707	0.0000000000	0.0000000000	0.0000000000
81	MQB5E01	2928.8341351400	80.6000000000	101.0000000494	151.6387621707	0.0000000000	0.0000000000	0.0000000000
82	D620	2929.1022851400	80.6000000000	101.0000000494	151.9069121707	0.0000000000	0.0000000000	0.0000000000
83	MBM5E01H	2929.1022851500	80.6000000000	101.0000000494	151.9069121807	0.0000000000	0.0000000000	0.0000000000
84	D605	2929.2983751500	80.6000000000	101.0000000494	152.1030021807	0.0000000000	0.0000000000	0.0000000000
85	MBM5E01V	2929.2983751600	80.6000000000	101.0000000494	152.1030021907	0.0000000000	0.0000000000	0.0000000000
86	D606	2929.8038351600	80.6000000000	101.0000000494	152.6084621907	0.0000000000	0.0000000000	0.0000000000
87	IHA5E01	2929.8038351600	80.6000000000	101.0000000494	152.6084621907	0.0000000000	0.0000000000	0.0000000000
88	D621	2930.0341351600	80.6000000000	101.0000000494	152.8387621907	0.0000000000	0.0000000000	0.0000000000
89	MBY5E01	2931.0344251600	80.6210000990	101.0000000494	153.8387582127	2.4060900000	0.0000000000	0.0000000000
90	D622	2936.0388351600	80.8310944930	101.0000000494	158.8387561921	2.4060900000	0.0000000000	0.0000000000
91	MBZ5E02	2938.0394251600	80.8310944930	101.0000000494	160.8387582331	-2.4060900000	0.0000000000	0.0000000000
92	D622	2943.0438351600	80.6210000990	101.0000000494	165.8387562125	-2.4060900000	0.0000000000	0.0000000000
93	MBY5E03	2944.0441251600	80.6000000000	101.0000000494	166.8387522345	0.0000000000	0.0000000000	0.0000000000
94	D623	2944.9444811600	80.6000000000	101.0000000494	167.7391082345	0.0000000000	0.0000000000	0.0000000000
95	IPM5E02	2944.9444811600	80.6000000000	101.0000000494	167.7391082345	0.0000000000	0.0000000000	0.0000000000
96	D619	2945.2441211600	80.6000000000	101.0000000494	168.0387482345	0.0000000000	0.0000000000	0.0000000000
97	MQB5E02	2945.3941211600	80.6000000000	101.0000000494	168.1887482345	0.0000000000	0.0000000000	0.0000000000
98	D620	2945.6622711600	80.6000000000	101.0000000494	168.4568982345	0.0000000000	0.0000000000	0.0000000000
99	MBM5E02H	2945.6622711700	80.6000000000	101.0000000494	168.4568982445	0.0000000000	0.0000000000	0.0000000000
100	D605	2945.8583611700	80.6000000000	101.0000000494	168.6529882445	0.0000000000	0.0000000000	0.0000000000
101	MBM5E02V	2945.8583611800	80.6000000000	101.0000000494	168.6529882545	0.0000000000	0.0000000000	0.0000000000
102	D618	2961.4944611800	80.6000000000	101.0000000494	184.2890882545	0.0000000000	0.0000000000	0.0000000000
103	IPM5E03	2961.4944611800	80.6000000000	101.0000000494	184.2890882545	0.0000000000	0.0000000000	0.0000000000
104	D619	2961.7941011800	80.6000000000	101.0000000494	184.5887282545	0.0000000000	0.0000000000	0.0000000000
105	MQB5E03	2961.9441011800	80.6000000000	101.0000000494	184.7387282545	0.0000000000	0.0000000000	0.0000000000
106	D620	2962.2122511800	80.6000000000	101.0000000494	185.0068782545	0.0000000000	0.0000000000	0.0000000000
107	MBM5E03H	2962.2122511900	80.6000000000	101.0000000494	185.0068782645	0.0000000000	0.0000000000	0.0000000000
108	D605	2962.4083411900	80.6000000000	101.0000000494	185.2029682645	0.0000000000	0.0000000000	0.0000000000
109	MBM5E03V	2962.4083412000	80.6000000000	101.0000000494	185.2029682745	0.0000000000	0.0000000000	0.0000000000
110	D618	2978.0444412000	80.6000000000	101.0000000494	200.8390682745	0.0000000000	0.0000000000	0.0000000000
111	IPM5A01	2978.0444412000	80.6000000000	101.0000000494	200.8390682745			

133	MQA5A03	2994.3874812300	78.6687919626	101.0000000494	217.0148376254	-11.2499800000	0.0000000000	0.0000000000
134	D604	2994.5806312300	78.6311103330	101.0000000494	217.2042763155	-11.2499800000	0.0000000000	0.0000000000
135	MBC5A03H	2994.5806312400	78.6311103311	101.0000000494	217.2042763253	-11.2499800000	0.0000000000	0.0000000000
136	D629	2994.9987212400	78.5495451615	101.0000000494	217.6143328716	-11.2499800000	0.0000000000	0.0000000000
137	IHA5A03	2994.9987212400	78.5495451615	101.0000000494	217.6143328716	-11.2499800000	0.0000000000	0.0000000000
138	D630	2997.5196512400	78.0577369791	101.0000000494	220.0868240802	-11.2499800000	0.0000000000	0.0000000000
139	IPMSA04	2997.5196512400	78.0577369791	101.0000000494	220.0868240802	-11.2499800000	0.0000000000	0.0000000000
140	D603	2997.7443012400	78.0139100152	101.0000000494	220.3071575088	-11.2499800000	0.0000000000	0.0000000000
141	MQA5A04	2998.0443012400	77.9553830213	101.0000000494	220.6013931133	-11.2499800000	0.0000000000	0.0000000000
142	D627	2998.4335412400	77.8794461976	101.0000000494	220.9831540024	-11.2499800000	0.0000000000	0.0000000000
143	MBC5A04V	2998.4335412500	77.8794461956	101.0000000494	220.9831540122	-11.2499800000	0.0000000000	0.0000000000
144	D631	3000.9377812500	77.3908940650	101.0000000494	223.4392759133	-11.2499800000	0.0000000000	0.0000000000
145	MBB5A03	3002.9385812500	76.9049353807	101.0000000494	225.3793353219	-16.8749700000	0.0000000000	0.0000000000
146	D625	3005.0116112500	76.3031675749	101.0000000494	227.3631016612	-16.8749700000	0.0000000000	0.0000000000
147	MBB5A04	3007.0124112500	75.6293901680	101.0000000494	229.2461869905	-22.4999600000	0.0000000000	0.0000000000
148	D626	3009.6812412500	74.6080748645	101.0000000494	231.7118651163	-22.4999600000	0.0000000000	0.0000000000
149	IPMSA05	3009.6812412500	74.6080748645	101.0000000494	231.7118651163	-22.4999600000	0.0000000000	0.0000000000
150	D603	3009.9058912500	74.5221051764	101.0000000494	231.9194147133	-22.4999600000	0.0000000000	0.0000000000
151	MQA5A05	3010.2058912500	74.4073003401	101.0000000494	232.1965786532	-22.4999600000	0.0000000000	0.0000000000
152	D604	3010.3990412500	74.3333851598	101.0000000494	232.3750260365	-22.4999600000	0.0000000000	0.0000000000
153	MBC5A05H	3010.3990412600	74.3333851559	101.0000000494	232.3750260457	-22.4999600000	0.0000000000	0.0000000000
154	D632	3013.0993712600	73.3000153447	101.0000000494	234.8698063852	-22.4999600000	0.0000000000	0.0000000000
155	MBB5A05	3015.1001712600	72.4449080367	101.0000000494	236.6777825586	-28.1249500000	0.0000000000	0.0000000000
156	D625	3017.1732012600	71.4676900548	101.0000000494	238.5060326500	-28.1249500000	0.0000000000	0.0000000000
157	MBB5A06	3019.1740012600	70.4394879673	101.0000000494	240.2214879303	-33.7499400000	0.0000000000	0.0000000000
158	D626	3021.8428312600	68.9567677861	101.0000000494	242.4405405284	-33.7499400000	0.0000000000	0.0000000000
159	IPMSA06	3021.8428312600	68.9567677861	101.0000000494	242.4405405284	-33.7499400000	0.0000000000	0.0000000000
160	D603	3022.0674812600	68.8319591288	101.0000000494	242.6273303075	-33.7499400000	0.0000000000	0.0000000000
161	MQA5A06	3022.3674812600	68.6652883201	101.0000000494	242.8767713658	-33.7499400000	0.0000000000	0.0000000000
162	D627	3022.7567212600	68.4490385016	101.0000000494	243.2004128241	-33.7499400000	0.0000000000	0.0000000000
163	MBC5A06V	3022.7567212700	68.4490384960	101.0000000494	243.2004128324	-33.7499400000	0.0000000000	0.0000000000
164	D633	3025.4996512700	66.9251506250	101.0000000494	245.4810773719	-33.7499400000	0.0000000000	0.0000000000
165	IPMSA07	3025.4996512700	66.9251506250	101.0000000494	245.4810773719	-33.7499400000	0.0000000000	0.0000000000
166	D603	3025.7243012700	66.8003419678	101.0000000494	245.6678671510	-33.7499400000	0.0000000000	0.0000000000
167	MQA5A07	3026.02643012700	66.6336711591	101.0000000494	245.9173082092	-33.7499400000	0.0000000000	0.0000000000
168	D604	3026.2174512700	66.5263629368	101.0000000494	246.0779066772	-33.7499400000	0.0000000000	0.0000000000
169	MBC5A07H	3026.2174512800	66.5263629312	101.0000000494	246.0779066856	-33.7499400000	0.0000000000	0.0000000000
170	D634	3029.1564712800	64.8935334640	101.0000000494	248.5216142154	-33.7499400000	0.0000000000	0.0000000000
171	IPMSA08	3029.1564712800	64.8935334640	101.0000000494	248.5216142154	-33.7499400000	0.0000000000	0.0000000000
172	D603	3029.3811212800	64.7687248068	101.0000000494	248.7084039945	-33.7499400000	0.0000000000	0.0000000000
173	MQA5A08	3029.6811212800	64.6020539981	101.0000000494	248.9578450527	-33.7499400000	0.0000000000	0.0000000000
174	D627	3030.0703612800	64.3858041795	101.0000000494	249.2814865111	-33.7499400000	0.0000000000	0.0000000000
175	MBC5A08V	3030.0703612900	64.3858041739	101.0000000494	249.2814865194	-33.7499400000	0.0000000000	0.0000000000
176	D631	3032.5746012900	62.9945251541	101.0000000494	251.3636874383	-33.7499400000	0.0000000000	0.0000000000
177	MBB5A07	3034.5754012900	61.8031304001	101.0000000494	252.9701011122	-39.3749300000	0.0000000000	0.0000000000
178	D625	3036.6484312900	60.4880160480	101.0000000494	254.5725765790	-39.3749300000	0.0000000000	0.0000000000
179	MBB5A08	3038.6492312900	59.1449023695	101.0000000494	256.0544780597	-44.9999200000	0.0000000000	0.0000000000
180	D626	3041.3180612900	57.2577572137	101.0000000494	257.9416284855	-44.9999200000	0.0000000000	0.0000000000
181	IPMSA09	3041.3180612900	57.2577572137	101.0000000494	257.9416284855	-44.9999200000	0.0000000000	0.0000000000
182	D603	3041.5427112900	57.0989058971	101.0000000494	258.1004802457	-44.9999200000	0.0000000000	0.0000000000
183	MQA5A09	3041.8427112900	56.8867741589	101.0000000494	258.3126125762	-44.9999200000	0.0000000000	0.0000000000
184	D604	3042.0358612900	56.7501966748	101.0000000494	258.4491904417	-44.9999200000	0.0000000000	0.0000000000
185	MBC5A09H	3042.0358613000	56.7501966677	101.0000000494	258.4491904488	-44.9999200000	0.0000000000	0.0000000000
186	D635	3042.7374113000	56.2541265980	101.0000000494	258.9452619038	-44.9999200000	0.0000000000	0.0000000000
187	ITV5A09	3042.7374113000	56.2541265980	101.0000000494	258.9452619038	-44.9999200000	0.0000000000	0.0000000000
188	D624	3044.7361913000	54.8407776794	101.0000000494	260.3586147693	-44.9999200000	0.0000000000	0.0000000000
189	MBB5A09	3046.7369913000	53.3588799494	101.0000000494	261.7017325860	-50.6249100000	0.0000000000	0.0000000000
190	D625	3048.8100213000	51.7564081550	101.0000000494	263.0168514130	-50.6249100000	0.0000000000	0.0000000000
191	MBB5A10	3050.8108213000	50.1499978081	101.0000000494	264.2082506530	-56.2499000000	0.0000000000	0.0000000000
192	D626	3053.4796513000	47.9309493505	101.0000000494	265.6909770309	-56.2499000000	0.0000000000	0.0000000000
193	IPMSA10	3053.4796513000	47.9309493505	101.0000000494	265.6909770309	-56.2499000000	0.0000000000	0.0000000000
194	D603	3053.7043013000	47.7441599200	101.0000000494	265.8157862098	-56.2499000000	0.0000000000	0.0000000000
195	MQA5A10	3054.0043013000	47.4947193272	101.0000000494	265.9824577151	-56.2499000000	0.0000000000	0.0000000000
196	D627	3054.3935413000	47.1710784727	101.0000000494	266.1987084374	-56.2499000000	0.0000000000	0.0000000000
197	MBC5A10V	3054.3935413100	47.1710784644	101.0000000494	266.1987084430	-56.2499000000	0.0000000000	0.0000000000
198	D628	3057.1364513100	44.8904348098	101.0000000494	267.7225915713	-56.2499000000	0.0000000000	0.0000000000
199	D603	3057.3611013100	44.7036453792	101.0000000494	267.8474007502	-56.2499000000	0.0000000000	0.0000000000
200	MQA5A11	3057.6611013100	44.4542047864	101.0000000494	268.0140722554	-56.2499000000	0.0000000000	0.0000000000
201	D604	3057.8542513100	44.2936066181	101.0000000494	268.1213809262	-56.2499000000	0.0000000000	0.0000000000
202	MBC5A11H	3057.8542513200	44.2936066098	101.0000000494	268.1213809318	-56.2499000000	0.0000000000	0.0000000000
203	D636	3061.0179213200	41.6631142091	101.0000000494	269.8790264020	-56.2499000000	0.0000000000	0.0000000000
204	IPMSA12	3061.0179213200	41.6631142091	101.0000000494	269.8790264020	-56.2499000000	0.0000000000	0.0000000000
205	MQA5A12	3061.3179213200	41.4136736163	101.0000000494	270.0456979072	-56.2499000000	0.0000000000	0.0000000000
206	D627	3061.7071613200	41.0900327618	101.0000000494	270.2619486296	-56.2499000000	0.0000000000	0.0000000000
207	MBC5A12V	3061.7071613300	41.0900327535	101.0000000494	270.2619486351	-56.2499000000	0.0000000000	0.0000000000
208	D631	3064.2114013300	39.0078357199	101.0000000494	271.6532334696	-56.2499000000	0.0000000000	0.0000000000
209	MBB5A11	3066.2122013300	37.2923833108	101.0000000494	272.6814403475	-61.8748900000	0.0000000000	0.0000000000
210	D625	3068.2852313300	35.4641359483	101.0000000494	273.6586634349	-61.8748900000	0.0000000000	0.0000000000
211	MBB5A12	3070.2860313300	33.6561621628	101.0000000494	274.5137757917	-67.4998800000	0.0000000000	0.0000000000
212	D626	3072.9548613300	31.1904868891	101.0000000494	275.5350979806	-67.4998800000	0.0000000000	0.0000000000
213	IPMSA13	3072.9548613300	31.1904868891	101.0000000494	275.5350979806	-67.4998800000	0.0000000000	0.0000000000
214	D603	3073.1795113300	30.9829375322	101.0000000494	275.6210682484	-67.49988		

237	MBC5A16V	3093.3439813700	11.5386587818	101.0000000494	280.7304869323	-78.7498600000	0.0000000000	0.0000000000
238	D631	3095.8482213700	9.0825382450	101.0000000494	281.2190459218	-78.7498600000	0.0000000000	0.0000000000
239	MBS5A15	3097.8490213700	7.1041893428	101.0000000494	281.5125113767	-84.3748500000	0.0000000000	0.0000000000
240	D625	3099.9220513700	5.0411420809	101.0000000494	281.7157092501	-84.3748500000	0.0000000000	0.0000000000
241	MBS5A16	3101.9228513700	3.0435548419	101.0000000494	281.8138498354	-89.9998400000	0.0000000000	0.0000000000
242	D626	3104.5916813700	0.3747248419	101.0000000494	281.8138572882	-89.9998400000	0.0000000000	0.0000000000
243	IPM5A17	3104.5916813700	0.3747248419	101.0000000494	281.8138572882	-89.9998400000	0.0000000000	0.0000000000
244	D603	3104.8163313700	0.1500748419	101.0000000494	281.8138579155	-89.9998400000	0.0000000000	0.0000000000
245	MQA5A17	3105.1163313700	-0.1499251581	101.0000000494	281.8138587533	-89.9998400000	0.0000000000	0.0000000000
246	D604	3105.3094813700	-0.3430751581	101.0000000494	281.8138592926	-89.9998400000	0.0000000000	0.0000000000
247	MBS5A17H	3105.3094813700	-0.3430751581	101.0000000494	281.8138592926	-89.9998400000	0.0000000000	0.0000000000
248	D635	3106.0110313800	-1.0446251681	101.0000000494	281.8138612517	-89.9998400000	0.0000000000	0.0000000000
249	ITV5A17	3106.0110313800	-1.0446251681	101.0000000494	281.8138612517	-89.9998400000	0.0000000000	0.0000000000
250	D624	3108.0098113800	-3.0434051680	101.0000000494	281.8138668334	-89.9998400000	0.0000000000	0.0000000000
251	MBS5A17	3110.0106113800	-5.0409929551	101.0000000494	281.7157374048	-95.6248300000	0.0000000000	0.0000000000
252	D625	3112.0836413800	-7.1040413519	101.0000000494	281.5125510535	-95.6248300000	0.0000000000	0.0000000000
253	MBS5A18	3114.0844413800	-9.0823918930	101.0000000494	281.2190966478	-101.2498200000	0.0000000000	0.0000000000
254	D626	3116.7532713800	-11.6999427086	101.0000000494	280.6984419670	-101.2498200000	0.0000000000	0.0000000000
255	IPM5A18	3116.7532713800	-11.6999427086	101.0000000494	280.6984419670	-101.2498200000	0.0000000000	0.0000000000
256	D603	3116.9779213800	-11.9202762595	101.0000000494	280.6546156183	-101.2498200000	0.0000000000	0.0000000000
257	MQA5A18	3117.2779213800	-12.2145120275	101.0000000494	280.5960894461	-101.2498200000	0.0000000000	0.0000000000
258	D627	3117.6671613800	-12.5962731286	101.0000000494	280.5201536885	-101.2498200000	0.0000000000	0.0000000000
259	MBS5A18V	3117.6671613800	-12.5962731286	101.0000000494	280.5201536886	-101.2498200000	0.0000000000	0.0000000000
260	D628	3120.4100713900	-15.2864805730	101.0000000494	279.9850469429	-101.2498200000	0.0000000000	0.0000000000
261	D603	3120.6347213900	-15.5068141239	101.0000000494	279.9412205943	-101.2498200000	0.0000000000	0.0000000000
262	MQA5A19	3120.9347213900	-15.8010498919	101.0000000494	279.8826944220	-101.2498200000	0.0000000000	0.0000000000
263	D604	3121.1278713900	-15.9904886872	101.0000000494	279.8450133215	-101.2498200000	0.0000000000	0.0000000000
264	MBS5A19H	3121.1278713900	-15.9904886872	101.0000000494	279.8450133195	-101.2498200000	0.0000000000	0.0000000000
265	D636	3124.2915414000	-19.0933716040	101.0000000494	279.2278216685	-101.2498200000	0.0000000000	0.0000000000
266	IPM5A20	3124.2915414000	-19.0933716040	101.0000000494	279.2278216685	-101.2498200000	0.0000000000	0.0000000000
267	MQA5A20	3124.5915414000	-19.3876073720	101.0000000494	279.1692954962	-101.2498200000	0.0000000000	0.0000000000
268	D627	3124.9807814000	-19.7693684731	101.0000000494	279.0933597386	-101.2498200000	0.0000000000	0.0000000000
269	MBS5A20V	3124.9807814000	-19.7693684829	101.0000000494	279.0933597367	-101.2498200000	0.0000000000	0.0000000000
270	D631	3127.4850214100	-22.2254917484	101.0000000494	278.6048144648	-101.2498200000	0.0000000000	0.0000000000
271	MBS5A19	3129.4858214100	-24.1655525140	101.0000000494	278.1188611983	-106.8748100000	0.0000000000	0.0000000000
272	D625	3131.5588514100	-26.1493205337	101.0000000494	277.5170989322	-106.8748100000	0.0000000000	0.0000000000
273	MBS5A20	3133.5596514100	-28.0324077446	101.0000000494	276.8433267838	-112.4998000000	0.0000000000	0.0000000000
274	D626	3136.2284814100	-30.4980887224	101.0000000494	275.8220183658	-112.4998000000	0.0000000000	0.0000000000
275	IPM5A21	3136.2284814100	-30.4980887224	101.0000000494	275.8220183658	-112.4998000000	0.0000000000	0.0000000000
276	D603	3136.4531314100	-30.7056385594	101.0000000494	275.7360492572	-112.4998000000	0.0000000000	0.0000000000
277	MQA5A21	3136.7531314100	-30.9828028199	101.0000000494	275.6212451950	-112.4998000000	0.0000000000	0.0000000000
278	D627	3137.1423714100	-31.3424142091	101.0000000494	275.4722907511	-112.4998000000	0.0000000000	0.0000000000
279	MBS5A21H	3137.1423714100	-31.3424142184	101.0000000494	275.4722907472	-112.4998000000	0.0000000000	0.0000000000
280	D631	3139.6466114200	-33.6560336441	101.0000000494	274.5139676646	-112.4998000000	0.0000000000	0.0000000000
281	MBS5A21	3141.6474114200	-35.4640122053	101.0000000494	273.6588654054	-118.1247900000	0.0000000000	0.0000000000
282	D625	3143.7204414200	-37.2922650256	101.0000000494	272.6816525290	-118.1247900000	0.0000000000	0.0000000000
283	MBS5A22	3145.7212414200	-39.0077231773	101.0000000494	271.6534552319	-123.7497800000	0.0000000000	0.0000000000
284	D637	3148.6147214200	-41.4135700435	101.0000000494	270.0459331119	-123.7497800000	0.0000000000	0.0000000000
285	IPM5A22	3148.6147214200	-41.4135700435	101.0000000494	270.0459331119	-123.7497800000	0.0000000000	0.0000000000
286	MQA5A22	3148.9147214200	-41.6630115672	101.0000000494	269.8792629997	-123.7497800000	0.0000000000	0.0000000000
287	D627	3149.3039614200	-41.9866536294	101.0000000494	269.6630140849	-123.7497800000	0.0000000000	0.0000000000
288	MBS5A22V	3149.3039614200	-41.9866536378	101.0000000494	269.6630140794	-123.7497800000	0.0000000000	0.0000000000
289	D633	3152.0468914300	-44.2673224327	101.0000000494	268.1391325773	-123.7497800000	0.0000000000	0.0000000000
290	D603	3152.2715413300	-44.4541125604	101.0000000494	268.0143244416	-123.7497800000	0.0000000000	0.0000000000
291	MQA5A23	3152.5715413300	-44.7035540840	101.0000000494	267.8476543295	-123.7497800000	0.0000000000	0.0000000000
292	D604	3152.7646914300	-44.8641528517	101.0000000494	267.7403465557	-123.7497800000	0.0000000000	0.0000000000
293	MBS5A23H	3152.7646914400	-44.8641528600	101.0000000494	267.7403465501	-123.7497800000	0.0000000000	0.0000000000
294	D634	3155.7037114400	-47.3078649495	101.0000000494	266.1075239070	-123.7497800000	0.0000000000	0.0000000000
295	IPM5A24	3155.7037114400	-47.3078649495	101.0000000494	266.1075239070	-123.7497800000	0.0000000000	0.0000000000
296	D603	3155.9283614400	-47.4946550772	101.0000000494	265.9827157714	-123.7497800000	0.0000000000	0.0000000000
297	MQA5A24	3156.2283614400	-47.7440966008	101.0000000494	265.8160456593	-123.7497800000	0.0000000000	0.0000000000
298	D627	3156.6176014400	-48.0677386631	101.0000000494	265.5997967445	-123.7497800000	0.0000000000	0.0000000000
299	MBS5A24V	3156.6176014500	-48.0677386714	101.0000000494	265.5997967389	-123.7497800000	0.0000000000	0.0000000000
300	D631	3159.1218414500	-50.1499434754	101.0000000494	264.2085235337	-123.7497800000	0.0000000000	0.0000000000
301	MBS5A23	3161.1226414500	-51.7563604764	101.0000000494	263.0171326556	-129.3747700000	0.0000000000	0.0000000000
302	D625	3163.1956714500	-53.3588396157	101.0000000494	261.7020233885	-129.3747700000	0.0000000000	0.0000000000
303	MBS5A24	3165.1964714500	-54.8407448470	101.0000000494	260.3589138483	-134.9997600000	0.0000000000	0.0000000000
304	D626	3167.8653014500	-56.7279005427	101.0000000494	258.4717739623	-134.9997600000	0.0000000000	0.0000000000
305	IPM5A25	3167.8653014500	-56.7279005427	101.0000000494	258.4717739623	-134.9997600000	0.0000000000	0.0000000000
306	D603	3168.0899514500	-56.8867527465	101.0000000494	258.3129230893	-134.9997600000	0.0000000000	0.0000000000
307	MQA5A25	3168.3899514500	-57.0988856694	101.0000000494	258.1007919436	-134.9997600000	0.0000000000	0.0000000000
308	D604	3168.5831014500	-57.2354639163	101.0000000494	257.9642148409	-134.9997600000	0.0000000000	0.0000000000
309	MBS5A25H	3168.5831014600	-57.2354639234	101.0000000494	257.9642148338	-134.9997600000	0.0000000000	0.0000000000
310	D635	3169.2846514600	-57.7315367637	101.0000000494	257.4681461494	-134.9997600000	0.0000000000	0.0000000000
311	ITV5A25	3169.2846514600	-57.7315367637	101.0000000494	257.4681461494	-134.9997600000	0.0000000000	0.0000000000
312	D624	3171.2834314600	-59.1448933570	101.0000000494	256.0548011775	-134.9997600000	0.0000000000	0.0000000000
313	MBS5A25	3173.2842314600	-60.4880155309	101.0000000494	254.5729071983	-140.6247500000	0.0000000000	0.0000000000
314	D625	3175.3572614600	-61.8031388329	101.0000000494	252.9704390764	-140.6247500000	0.0000000000	0.0000000000
315	MBS5A26	3177.3580614600	-62.9945425588	101.0000000494	251.3640320565	-146.2497400000	0.0000000000	0.0000000000
316	D626	3180.0268914600	-64.4772751335	101.0000000494	249.1449877395	-146.2497400000	0.0000000000	0.0000000000
317	IPM5A26	3180.0268914600	-64.4772751335	101.0000000494	249.1449877395	-146.2497400000	0.0000000000	0.0000000000
318	D603	3180.2515414600	-64.6020848340					

341	MBC5A29H	3200.2199015000	-74.5961362437	101.0000000494	231.7413933729	-157.4997200000	0.0000000000	0.0000000000
342	D632	3202.9202315000	-75.6295199884	101.0000000494	229.2466188049	-157.4997200000	0.0000000000	0.0000000000
343	MBB5A29	3204.9210315000	-76.3033079125	101.0000000494	227.3635372387	-163.1247100000	0.0000000000	0.0000000000
344	D625	3206.9940615000	-76.9050867977	101.0000000494	225.3797742603	-163.1247100000	0.0000000000	0.0000000000
345	MBB5A30	3208.9948615000	-77.3910563173	101.0000000494	223.4397175659	-168.7497000000	0.0000000000	0.0000000000
346	D637	3211.8883415000	-77.9555611213	101.0000000494	220.6018379284	-168.7497000000	0.0000000000	0.0000000000
347	IPM5A30	3211.8883415000	-77.9555611213	101.0000000494	220.6018379284	-168.7497000000	0.0000000000	0.0000000000
348	MQA5A30	3212.1883415000	-78.0140897586	101.0000000494	220.3076026507	-168.7497000000	0.0000000000	0.0000000000
349	D627	3212.5775815000	-78.0900287144	101.0000000494	219.9258421858	-168.7497000000	0.0000000000	0.0000000000
350	MBC5A30V	3212.5775815000	-78.0900287163	101.0000000494	219.9258421760	-168.7497000000	0.0000000000	0.0000000000
351	D633	3215.3205115100	-78.6251618993	101.0000000494	217.2356196087	-168.7497000000	0.0000000000	0.0000000000
352	D603	3215.5451615100	-78.6689900938	101.0000000494	217.0152864250	-168.7497000000	0.0000000000	0.0000000000
353	MQA5A31	3215.8451615100	-78.7275187310	101.0000000494	216.7210511473	-168.7497000000	0.0000000000	0.0000000000
354	D604	3216.0383115100	-78.7652014186	101.0000000494	216.5316126677	-168.7497000000	0.0000000000	0.0000000000
355	MBC5A31H	3216.0383115200	-78.7652014206	101.0000000494	216.5316126579	-168.7497000000	0.0000000000	0.0000000000
356	D634	3218.9773315200	-79.3385908718	101.0000000494	213.6490681053	-168.7497000000	0.0000000000	0.0000000000
357	IPM5A32	3218.9773315200	-79.3385908718	101.0000000494	213.6490681053	-168.7497000000	0.0000000000	0.0000000000
358	D603	3219.2019815200	-79.3824190663	101.0000000494	213.4287349215	-168.7497000000	0.0000000000	0.0000000000
359	MQA5A32	3219.5019815200	-79.4409477035	101.0000000494	213.1344996439	-168.7497000000	0.0000000000	0.0000000000
360	D627	3219.8912215200	-79.5168866593	101.0000000494	212.7527391789	-168.7497000000	0.0000000000	0.0000000000
361	MBC5A32V	3219.8912215300	-79.5168866613	101.0000000494	212.7527391691	-168.7497000000	0.0000000000	0.0000000000
362	D631	3222.3954615300	-80.0054525095	101.0000000494	210.2966199966	-168.7497000000	0.0000000000	0.0000000000
363	MBB5A31	3224.3962615300	-80.2989234890	101.0000000494	208.3182719140	-174.3746900000	0.0000000000	0.0000000000
364	D625	3226.4692915300	-80.5021271236	101.0000000494	206.2552252195	-174.3746900000	0.0000000000	0.0000000000
365	MBB5A32	3228.4700915300	-80.6002732871	101.0000000494	204.2576382546	-179.9996800000	0.0000000000	0.0000000000
366	D626	3231.1389215300	-80.6002881927	101.0000000494	201.5888082547	-179.9996800000	0.0000000000	0.0000000000
367	IPM5R01	3231.1389215300	-80.6002881927	101.0000000494	201.5888082547	-179.9996800000	0.0000000000	0.0000000000
368	D603	3231.3635715300	-80.6002894474	101.0000000494	201.3641582547	-179.9996800000	0.0000000000	0.0000000000
369	MQA5R01	3231.6635715300	-80.6002911229	101.0000000494	201.0641582547	-179.9996800000	0.0000000000	0.0000000000
370	D604	3231.8567215300	-80.6002922016	101.0000000494	200.8710082547	-179.9996800000	0.0000000000	0.0000000000
371	MBC5R01H	3231.8567215400	-80.6002922016	101.0000000494	200.8710082447	-179.9996800000	0.0000000000	0.0000000000
372	D635	3232.5582715400	-80.6002961198	101.0000000494	200.1694582447	-179.9996800000	0.0000000000	0.0000000000
373	ITV5R01	3232.5582715400	-80.6002961198	101.0000000494	200.1694582447	-179.9996800000	0.0000000000	0.0000000000
374	D638	3235.1389215400	-80.6003105329	101.0000000494	197.5888082447	-179.9996800000	0.0000000000	0.0000000000
375	IPM5R02	3235.1389215400	-80.6003105329	101.0000000494	197.5888082447	-179.9996800000	0.0000000000	0.0000000000
376	D603	3235.3635715400	-80.6003117876	101.0000000494	197.3641582447	-179.9996800000	0.0000000000	0.0000000000
377	MQA5R02	3235.6635715400	-80.6003134631	101.0000000494	197.0641582447	-179.9996800000	0.0000000000	0.0000000000
378	D604	3235.8567215400	-80.6003145418	101.0000000494	196.8710082447	-179.9996800000	0.0000000000	0.0000000000
379	MBC5R02H	3235.8567215500	-80.6003145418	101.0000000494	196.8710082347	-179.9996800000	0.0000000000	0.0000000000
380	D605	3236.0528115500	-80.6003156370	101.0000000494	196.6749182348	-179.9996800000	0.0000000000	0.0000000000
381	MBC5R02V	3236.0528115600	-80.6003156370	101.0000000494	196.6749182248	-179.9996800000	0.0000000000	0.0000000000
382	D617	3239.1389215600	-80.6003328731	101.0000000494	193.5888082248	-179.9996800000	0.0000000000	0.0000000000
383	IPM5R03	3239.1389215600	-80.6003328731	101.0000000494	193.5888082248	-179.9996800000	0.0000000000	0.0000000000
384	D603	3239.3635715600	-80.6003341278	101.0000000494	193.3641582248	-179.9996800000	0.0000000000	0.0000000000
385	MQA5R03	3239.6635715600	-80.6003358033	101.0000000494	193.0641582248	-179.9996800000	0.0000000000	0.0000000000
386	D604	3239.8567215600	-80.6003368820	101.0000000494	192.8710082248	-179.9996800000	0.0000000000	0.0000000000
387	MBC5R03H	3239.8567215700	-80.6003368820	101.0000000494	192.8710082148	-179.9996800000	0.0000000000	0.0000000000
388	D639	3243.1389215700	-80.6003552133	101.0000000494	189.5888082149	-179.9996800000	0.0000000000	0.0000000000
389	IPM5R04	3243.1389215700	-80.6003552133	101.0000000494	189.5888082149	-179.9996800000	0.0000000000	0.0000000000
390	D603	3243.3635715700	-80.6003564680	101.0000000494	189.3641582149	-179.9996800000	0.0000000000	0.0000000000
391	MQA5R04	3243.6635715700	-80.6003581435	101.0000000494	189.0641582149	-179.9996800000	0.0000000000	0.0000000000
392	D604	3243.8567215700	-80.6003592223	101.0000000494	188.8710082149	-179.9996800000	0.0000000000	0.0000000000
393	MBC5R04H	3243.8567215800	-80.6003592223	101.0000000494	188.8710082049	-179.9996800000	0.0000000000	0.0000000000
394	D605	3244.0528115800	-80.6003603174	101.0000000494	188.6749182049	-179.9996800000	0.0000000000	0.0000000000
395	MBC5R04V	3244.0528115900	-80.6003603174	101.0000000494	188.6749181949	-179.9996800000	0.0000000000	0.0000000000
396	D640	3247.3635715900	-80.6003788082	101.0000000494	185.3641581949	-179.9996800000	0.0000000000	0.0000000000
397	MQA5R05	3247.6635715900	-80.6003804837	101.0000000494	185.0641581949	-179.9996800000	0.0000000000	0.0000000000
398	D641	3249.1389215900	-80.6003887236	101.0000000494	183.5888081950	-179.9996800000	0.0000000000	0.0000000000
399	IPM5R06	3249.1389215900	-80.6003887236	101.0000000494	183.5888081950	-179.9996800000	0.0000000000	0.0000000000
400	D603	3249.3635715900	-80.6003899783	101.0000000494	183.3641581950	-179.9996800000	0.0000000000	0.0000000000
401	MQA5R06	3249.6635715900	-80.6003916538	101.0000000494	183.0641581950	-179.9996800000	0.0000000000	0.0000000000
402	D604	3249.8567215900	-80.6003927326	101.0000000494	182.8710081950	-179.9996800000	0.0000000000	0.0000000000
403	MBC5R06H	3249.8567216000	-80.6003927326	101.0000000494	182.8710081850	-179.9996800000	0.0000000000	0.0000000000
404	D635	3250.5582716000	-80.6003966508	101.0000000494	182.1694581850	-179.9996800000	0.0000000000	0.0000000000
405	ITV5R06	3250.5582716000	-80.6003966508	101.0000000494	182.1694581850	-179.9996800000	0.0000000000	0.0000000000
406	D642	3251.3635716000	-80.6004011484	101.0000000494	181.3641581850	-179.9996800000	0.0000000000	0.0000000000
407	MQA5R07	3251.6635716000	-80.6004028239	101.0000000494	181.0641581850	-179.9996800000	0.0000000000	0.0000000000
408	D627	3252.0528116000	-80.6004049979	101.0000000494	180.6749181850	-179.9996800000	0.0000000000	0.0000000000
409	MBC5R07V	3252.0528116100	-80.6004049979	101.0000000494	180.6749181750	-179.9996800000	0.0000000000	0.0000000000
410	D643	3252.5526816100	-80.6004077897	101.0000000494	180.1750481750	-179.9996800000	0.0000000000	0.0000000000
411	MAC5R01	3253.5527816100	-80.6004133731	100.9759592331	179.1753335477	-179.9996800000	-2.7551300000	0.0000000000
412	D30083	3257.0568316100	-80.6004329208	100.8075280974	175.6753339256	-179.9996800000	-2.7551300000	0.0000000000
413	MAC5R03	3258.0569316100	-80.6004385043	100.7834872811	174.6756192983	-179.9996800000	0.0000000000	0.0000000000
414	D644	3258.4887866100	-80.6004409162	100.7834872811	174.2437642983	-179.9996800000	0.0000000000	0.0000000000
415	MBC5R08H	3258.4887866200	-80.6004409162	100.7834872811	174.2437642883	-179.9996800000	0.0000000000	0.0000000000
416	D604	3258.6819366200	-80.6004419950	100.7834872811	174.0506142883	-179.9996800000	0.0000000000	0.0000000000
417	MQA5R08	3258.9819366200	-80.6004436705	100.7834872811	173.7506142883	-179.9996800000	0.0000000000	0.0000000000
418	D603	3259.2065866200	-80.6004449252	100.7834872811	173.5259642883	-179.9996800000	0.0000000000	0.0000000000
419	IPM5R08	3259.2065866200	-80.6004449252	100.7834872811	173.5259642883	-179.9996800000	0.0000000000	0.0000000000
420	D609	3260.6470866200	-80.6004529704	100.7834872811	172.0854642883	-179.9996800000	0.0000000000	0.0000000000
421	MBC5R09H	3260.6470866300	-80.6004529704	100.7834872811	172.0854642783	-179.9996800000	0.0000000000	0.0000000000
422	D60							

Arc6.outd

```
LDIMAT VERSION 2.9 PROD
ODATE AND TIME OF THIS RUN:      12-JUN-2007      12:48:23

XSIF Parser Version 2.1
Version Date:      01-JAN-2004
Run: 12-JUN-2007 12:48:23
XSIF Parser developed by NLC Department,
Stanford Linear Accelerator Center.

UTRANSPORT

TITLE
CONVERTED FROM ../../OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//ARC6.OPT
5
MAW6S01: SBEND, L=1.0007, ANGLE=3.7138, K1=-0.785361, &
E1=0, E2=3.71381, HGAP=0.01905, &
HGAPX=0.01905, &
FINT=0.5, TILT=90
10
D700: DRIFT, L=2.00421
MAX6S02: SBEND, L=1.00432, ANGLE=3.05992, K1=-1.55369, &
E1=3.71381, E2=6.77377, HGAP=0.023749, &
HGAPX=0.023749, &
FINT=0.5, TILT=90
15
D701: DRIFT, L=2.77941
MAU6S03: SBEND, L=2.00116, ANGLE=-6.77372, K1=-0, &
E1=-3.38688, E2=-3.38688, HGAP=0.012954, &
HGAPX=0.012954, &
FINT=0.5, TILT=90
20
D702: DRIFT, L=0.589715
IPM6S01: MONITOR, L=0
D703: DRIFT, L=0.22465
MQA6S01: QUADRUPOLE, L=0.3, K1=-0.698248, TILT=0
D704: DRIFT, L=0.19315
25
MBC6S01H: GKICK, L=1E-08, DXP=0, DYP=0
D705: DRIFT, L=0.19609
MBC6S01V: GKICK, L=1E-08, DXP=0, DYP=0
D706: DRIFT, L=0.50546
ITV6S01: MONITOR, L=0
30
D707: DRIFT, L=3.41065
IPM6S02: MONITOR, L=0
MQA6S02: QUADRUPOLE, L=0.3, K1=1.02083, TILT=0
MBC6S02H: GKICK, L=1E-08, DXP=0, DYP=0
MBC6S02V: GKICK, L=1E-08, DXP=0, DYP=0
35
D708: DRIFT, L=1.15611
IPM6S03: MONITOR, L=0
MQA6S03: QUADRUPOLE, L=0.3, K1=-1.64732, TILT=0
MBC6S03H: GKICK, L=1E-08, DXP=0, DYP=0
D709A: DRIFT, L=1.03995
40
MAB6S04: SBEND, L=1.00016, ANGLE=3.56113, K1=-1.13763, &
E1=1.78057, E2=1.78057, HGAP=0.012954, &
HGAPX=0.012954, &
FINT=0.5, TILT=90
D710A: DRIFT, L=3.82938
45
MAB6S06: SBEND, L=1.00016, ANGLE=-3.56113, K1=-0, &
E1=-1.78057, E2=-1.78057, HGAP=0.012954, &
HGAPX=0.012954, &
FINT=0.5, TILT=90
D711: DRIFT, L=1.91357
50
MQA6S04: QUADRUPOLE, L=0.3, K1=-0.914614, TILT=0
D712: DRIFT, L=0.8947
ITV6S04: MONITOR, L=0
D713: DRIFT, L=0.18065
IPM6S05: MONITOR, L=0
55
MQA6S05: QUADRUPOLE, L=0.3, K1=1.13606, TILT=0
MBC6S05H: GKICK, L=1E-08, DXP=0, DYP=0
MBC6S05V: GKICK, L=1E-08, DXP=0, DYP=0
D714: DRIFT, L=0.91076
MQA6S06: QUADRUPOLE, L=0.3, K1=-0.344444, TILT=0
60
D715: DRIFT, L=4.27535
IPM6S07: MONITOR, L=0
MQA6S07: QUADRUPOLE, L=0.3, K1=0.0517959, TILT=0
MBC6S07H: GKICK, L=1E-08, DXP=0, DYP=0
MBC6S07V: GKICK, L=1E-08, DXP=0, DYP=0
65
D716: DRIFT, L=2.28611
IPM6S08: MONITOR, L=0
MQA6S08: QUADRUPOLE, L=0.3, K1=-0.315726, TILT=0
MBC6S08H: GKICK, L=1E-08, DXP=0, DYP=0
MBC6S08V: GKICK, L=1E-08, DXP=0, DYP=0
70
IPM6S09: MONITOR, L=0
MQA6S09: QUADRUPOLE, L=0.3, K1=-0.0566459, TILT=0
MBC6S09H: GKICK, L=1E-08, DXP=0, DYP=0
MBC6S09V: GKICK, L=1E-08, DXP=0, DYP=0
IPM6S10: MONITOR, L=0
75
MQA6S10: QUADRUPOLE, L=0.3, K1=0.306546, TILT=0
MBC6S10H: GKICK, L=1E-08, DXP=0, DYP=0
MBC6S10V: GKICK, L=1E-08, DXP=0, DYP=0
MAT6S10H: GKICK, L=1E-08, DXP=0, DYP=0
D717: DRIFT, L=15.1307
80
IPM6E01: MONITOR, L=0
MQC6E01: QUADRUPOLE, L=0.3, K1=-0.289379, TILT=0
MBM6E01H: GKICK, L=1E-08, DXP=0, DYP=0
MBM6E01V: GKICK, L=1E-08, DXP=0, DYP=0
IHA6E01: MONITOR, L=0
85
D718: DRIFT, L=0.23029
MBY6E01: SBEND, L=1.00029, ANGLE=-2.40609, K1=-0, &
E1=-0, E2=-2.40609, HGAP=0, &
HGAPX=0, &
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    FINT=0.5, TILT=0
90  D719: DRIFT, L=5.00442
    MBZ6E02: SBEND, L=2.00059, ANGLE=4.81218, K1=-0, &
    E1=2.40609, E2=2.40609, HGAP=0, &
    HGAPX=0, &
    FINT=0.5, TILT=0
95  MBY6E03: SBEND, L=1.00029, ANGLE=-2.40609, K1=-0, &
    E1=-2.40609, E2=-0, HGAP=0, &
    HGAPX=0, &
    FINT=0.5, TILT=0
100 D720: DRIFT, L=0.900346
    IPM6E02: MONITOR, L=0
    MQC6E02: QUADRUPOLE, L=0.3, K1=0.31784, TILT=0
    MBM6E02H: GKICK, L=1E-08, DXP=0, DYP=0
    MBM6E02V: GKICK, L=1E-08, DXP=0, DYP=0
    ITV6E02: MONITOR, L=0
105 IPM6E03: MONITOR, L=0
    MQC6E03: QUADRUPOLE, L=0.3, K1=-0.329489, TILT=0
    MBM6E03H: GKICK, L=1E-08, DXP=0, DYP=0
    MBM6E03V: GKICK, L=1E-08, DXP=0, DYP=0
    D721: DRIFT, L=15.6361
110 IPM6A01: MONITOR, L=0
    MQA6A01: QUADRUPOLE, L=0.3, K1=0.402965, TILT=0
    MBC6A01H: GKICK, L=1E-08, DXP=0, DYP=0
    MBC6A01V: GKICK, L=1E-08, DXP=0, DYP=0
    ITV6A01: MONITOR, L=0
115 D722: DRIFT, L=1.32074
    MBB6A01: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
    E1=2.8125, E2=2.8125, HGAP=0.0127127, &
    HGAPX=0.0127127, &
    FINT=0.5, TILT=0
120 D723: DRIFT, L=3.09251
    MBB6A02: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
    E1=2.8125, E2=2.8125, HGAP=0.0127127, &
    HGAPX=0.0127127, &
    FINT=0.5, TILT=0
125 D724: DRIFT, L=1.99079
    IPM6A02: MONITOR, L=0
    MQA6A02: QUADRUPOLE, L=0.3, K1=-0.572194, TILT=0
    D725: DRIFT, L=0.38924
    MBC6A02V: GKICK, L=1E-08, DXP=0, DYP=0
130 D726: DRIFT, L=3.0714
    IPM6A03: MONITOR, L=0
    MQA6A03: QUADRUPOLE, L=0.3, K1=1.01925, TILT=0
    MBC6A03H: GKICK, L=1E-08, DXP=0, DYP=0
    D727: DRIFT, L=0.41809
135 IHA6A03: MONITOR, L=0
    D728: DRIFT, L=2.84941
    IPM6A04: MONITOR, L=0
    MQA6A04: QUADRUPOLE, L=0.3, K1=-0.572194, TILT=0
    MBC6A04V: GKICK, L=1E-08, DXP=0, DYP=0
140 D729: DRIFT, L=1.82621
    MBB6A03: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
    E1=2.8125, E2=2.8125, HGAP=0.0127127, &
    HGAPX=0.0127127, &
    FINT=0.5, TILT=0
145 MBB6A04: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
    E1=2.8125, E2=2.8125, HGAP=0.0127127, &
    HGAPX=0.0127127, &
    FINT=0.5, TILT=0
    IPM6A05: MONITOR, L=0
150 MQA6A05: QUADRUPOLE, L=0.3, K1=0.464999, TILT=0
    MBC6A05H: GKICK, L=1E-08, DXP=0, DYP=0
    D730: DRIFT, L=2.02229
    MBB6A05: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
    E1=2.8125, E2=2.8125, HGAP=0.0127127, &
155 HGAPX=0.0127127, &
    FINT=0.5, TILT=0
    MBB6A06: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
    E1=2.8125, E2=2.8125, HGAP=0.0127127, &
    HGAPX=0.0127127, &
160 FINT=0.5, TILT=0
    IPM6A06: MONITOR, L=0
    MQA6A06: QUADRUPOLE, L=0.3, K1=-0.572194, TILT=0
    MBC6A06V: GKICK, L=1E-08, DXP=0, DYP=0
    D731: DRIFT, L=3.07141
165 IPM6A07: MONITOR, L=0
    MQA6A07: QUADRUPOLE, L=0.3, K1=1.01925, TILT=0
    MBC6A07H: GKICK, L=1E-08, DXP=0, DYP=0
    D732: DRIFT, L=3.2675
    IPM6A08: MONITOR, L=0
170 MQA6A08: QUADRUPOLE, L=0.3, K1=-0.572194, TILT=0
    MBC6A08V: GKICK, L=1E-08, DXP=0, DYP=0
    D733: DRIFT, L=1.8262
    MBB6A07: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
    E1=2.8125, E2=2.8125, HGAP=0.0127127, &
175 HGAPX=0.0127127, &
    FINT=0.5, TILT=0
    MBB6A08: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
    E1=2.8125, E2=2.8125, HGAP=0.0127127, &
    HGAPX=0.0127127, &
180 FINT=0.5, TILT=0
    IPM6A09: MONITOR, L=0
    MQA6A09: QUADRUPOLE, L=0.3, K1=0.589504, TILT=0
    MBC6A09H: GKICK, L=1E-08, DXP=0, DYP=0
    D734: DRIFT, L=0.70155
185 ITV6A09: MONITOR, L=0
    MBB6A09: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
    E1=2.8125, E2=2.8125, HGAP=0.0127127, &
    HGAPX=0.0127127, &
    FINT=0.5, TILT=0
190 MBB6A10: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
    E1=2.8125, E2=2.8125, HGAP=0.0127127, &
    HGAPX=0.0127127, &
  
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FINT=0.5, TILT=0
IPM6A10: MONITOR, L=0
195 MQA6A10: QUADRUPOLE, L=0.3, K1=-0.572194, TILT=0
MBC6A10V: GKICK, L=1E-08, DXP=0, DYP=0
MQA6A11: QUADRUPOLE, L=0.3, K1=1.01925, TILT=0
MBC6A11H: GKICK, L=1E-08, DXP=0, DYP=0
D735: DRIFT, L=3.49215
200 IPM6A12: MONITOR, L=0
MQA6A12: QUADRUPOLE, L=0.3, K1=-0.572194, TILT=0
MBC6A12V: GKICK, L=1E-08, DXP=0, DYP=0
MBB6A11: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
E1=2.8125, E2=2.8125, HGAP=0.0127127, &
205 HGAPX=0.0127127, &
FINT=0.5, TILT=0
MBB6A12: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
E1=2.8125, E2=2.8125, HGAP=0.0127127, &
HGAPX=0.0127127, &
210 FINT=0.5, TILT=0
IPM6A13: MONITOR, L=0
MQA6A13: QUADRUPOLE, L=0.3, K1=0.464999, TILT=0
MBC6A13H: GKICK, L=1E-08, DXP=0, DYP=0
MBB6A13: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
215 E1=2.8125, E2=2.8125, HGAP=0.0127127, &
HGAPX=0.0127127, &
FINT=0.5, TILT=0
MBB6A14: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
E1=2.8125, E2=2.8125, HGAP=0.0127127, &
220 HGAPX=0.0127127, &
FINT=0.5, TILT=0
D736: DRIFT, L=2.21544
IPM6A14: MONITOR, L=0
MQA6A14: QUADRUPOLE, L=0.3, K1=-0.572194, TILT=0
225 MBC6A14V: GKICK, L=1E-08, DXP=0, DYP=0
MQA6A15: QUADRUPOLE, L=0.3, K1=1.01925, TILT=0
MBC6A15H: GKICK, L=1E-08, DXP=0, DYP=0
IPM6A16: MONITOR, L=0
MQA6A16: QUADRUPOLE, L=0.3, K1=-0.572194, TILT=0
230 MBC6A16V: GKICK, L=1E-08, DXP=0, DYP=0
MBB6A15: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
E1=2.8125, E2=2.8125, HGAP=0.0127127, &
HGAPX=0.0127127, &
FINT=0.5, TILT=0
235 MBB6A16: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
E1=2.8125, E2=2.8125, HGAP=0.0127127, &
HGAPX=0.0127127, &
FINT=0.5, TILT=0
IPM6A17: MONITOR, L=0
MQA6A17: QUADRUPOLE, L=0.3, K1=0.589504, TILT=0
MBC6A17H: GKICK, L=1E-08, DXP=0, DYP=0
ITV6A17: MONITOR, L=0
MBB6A17: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
E1=2.8125, E2=2.8125, HGAP=0.0127127, &
245 HGAPX=0.0127127, &
FINT=0.5, TILT=0
MBB6A18: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
E1=2.8125, E2=2.8125, HGAP=0.0127127, &
HGAPX=0.0127127, &
250 FINT=0.5, TILT=0
IPM6A18: MONITOR, L=0
MQA6A18: QUADRUPOLE, L=0.3, K1=-0.572194, TILT=0
MBC6A18V: GKICK, L=1E-08, DXP=0, DYP=0
MQA6A19: QUADRUPOLE, L=0.3, K1=1.01925, TILT=0
255 MBC6A19H: GKICK, L=1E-08, DXP=0, DYP=0
IPM6A20: MONITOR, L=0
MQA6A20: QUADRUPOLE, L=0.3, K1=-0.572194, TILT=0
MBC6A20V: GKICK, L=1E-08, DXP=0, DYP=0
MBB6A19: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
260 E1=2.8125, E2=2.8125, HGAP=0.0127127, &
HGAPX=0.0127127, &
FINT=0.5, TILT=0
MBB6A20: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
E1=2.8125, E2=2.8125, HGAP=0.0127127, &
265 HGAPX=0.0127127, &
FINT=0.5, TILT=0
IPM6A21: MONITOR, L=0
MQA6A21: QUADRUPOLE, L=0.3, K1=0.464999, TILT=0
MBC6A21H: GKICK, L=1E-08, DXP=0, DYP=0
270 MBB6A21: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
E1=2.8125, E2=2.8125, HGAP=0.0127127, &
HGAPX=0.0127127, &
FINT=0.5, TILT=0
MBB6A22: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
E1=2.8125, E2=2.8125, HGAP=0.0127127, &
275 HGAPX=0.0127127, &
FINT=0.5, TILT=0
IPM6A22: MONITOR, L=0
MQA6A22: QUADRUPOLE, L=0.3, K1=-0.572194, TILT=0
MBC6A22V: GKICK, L=1E-08, DXP=0, DYP=0
280 MQA6A23: QUADRUPOLE, L=0.3, K1=1.01925, TILT=0
MBC6A23H: GKICK, L=1E-08, DXP=0, DYP=0
IPM6A24: MONITOR, L=0
MQA6A24: QUADRUPOLE, L=0.3, K1=-0.572194, TILT=0
285 MBC6A24V: GKICK, L=1E-08, DXP=0, DYP=0
MBB6A23: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
E1=2.8125, E2=2.8125, HGAP=0.0127127, &
HGAPX=0.0127127, &
FINT=0.5, TILT=0
290 MBB6A24: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
E1=2.8125, E2=2.8125, HGAP=0.0127127, &
HGAPX=0.0127127, &
FINT=0.5, TILT=0
IPM6A25: MONITOR, L=0
295 MQA6A25: QUADRUPOLE, L=0.3, K1=0.589504, TILT=0
MBC6A25H: GKICK, L=1E-08, DXP=0, DYP=0
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ITV6A25: MONITOR, L=0
 MBB6A25: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
 E1=2.8125, E2=2.8125, HGAP=0.0127127, &
 300 HGAPX=0.0127127, &
 FINT=0.5, TILT=0
 MBB6A26: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
 E1=2.8125, E2=2.8125, HGAP=0.0127127, &
 305 HGAPX=0.0127127, &
 FINT=0.5, TILT=0
 IPM6A26: MONITOR, L=0
 MQA6A26: QUADRUPOLE, L=0.3, K1=-0.572194, TILT=0
 MBC6A26V: GKICK, L=1E-08, DXP=0, DYP=0
 MQA6A27: QUADRUPOLE, L=0.3, K1=1.01925, TILT=0
 310 MBC6A27H: GKICK, L=1E-08, DXP=0, DYP=0
 IPM6A28: MONITOR, L=0
 MQA6A28: QUADRUPOLE, L=0.3, K1=-0.572194, TILT=0
 MBC6A28V: GKICK, L=1E-08, DXP=0, DYP=0
 MBB6A27: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
 315 E1=2.8125, E2=2.8125, HGAP=0.0127127, &
 HGAPX=0.0127127, &
 FINT=0.5, TILT=0
 MBB6A28: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
 E1=2.8125, E2=2.8125, HGAP=0.0127127, &
 320 HGAPX=0.0127127, &
 FINT=0.5, TILT=0
 IPM6A29: MONITOR, L=0
 MQA6A29: QUADRUPOLE, L=0.3, K1=0.464999, TILT=0
 MBC6A29H: GKICK, L=1E-08, DXP=0, DYP=0
 MBB6A29: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
 325 E1=2.8125, E2=2.8125, HGAP=0.0127127, &
 HGAPX=0.0127127, &
 FINT=0.5, TILT=0
 MBB6A30: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
 E1=2.8125, E2=2.8125, HGAP=0.0127127, &
 330 HGAPX=0.0127127, &
 FINT=0.5, TILT=0
 IPM6A30: MONITOR, L=0
 MQA6A30: QUADRUPOLE, L=0.3, K1=-0.572194, TILT=0
 MBC6A30V: GKICK, L=1E-08, DXP=0, DYP=0
 MQA6A31: QUADRUPOLE, L=0.3, K1=1.01925, TILT=0
 335 MBC6A31H: GKICK, L=1E-08, DXP=0, DYP=0
 IPM6A32: MONITOR, L=0
 MQA6A32: QUADRUPOLE, L=0.3, K1=-0.572194, TILT=0
 MBC6A32V: GKICK, L=1E-08, DXP=0, DYP=0
 MBB6A31: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
 340 E1=2.8125, E2=2.8125, HGAP=0.0127127, &
 HGAPX=0.0127127, &
 FINT=0.5, TILT=0
 MBB6A32: SBEND, L=2.0008, ANGLE=5.62499, K1=-0.428632, &
 E1=2.8125, E2=2.8125, HGAP=0.0127127, &
 345 HGAPX=0.0127127, &
 FINT=0.5, TILT=0
 IPM6R01: MONITOR, L=0
 MQA6R01: QUADRUPOLE, L=0.3, K1=1.19347, TILT=0
 MBC6R01H: GKICK, L=1E-08, DXP=0, DYP=0
 ITV6R01: MONITOR, L=0
 D737: DRIFT, L=1.78065
 IPM6R02: MONITOR, L=0
 355 MQA6R02: QUADRUPOLE, L=0.3, K1=-1.1567, TILT=0
 MBC6R02H: GKICK, L=1E-08, DXP=0, DYP=0
 MBC6R02V: GKICK, L=1E-08, DXP=0, DYP=0
 IPM6R03: MONITOR, L=0
 MQA6R03: QUADRUPOLE, L=0.3, K1=1.22281, TILT=0
 360 MBC6R03H: GKICK, L=1E-08, DXP=0, DYP=0
 D738: DRIFT, L=2.4822
 IPM6R04: MONITOR, L=0
 MQA6R04: QUADRUPOLE, L=0.3, K1=-1.99333, TILT=0
 MBC6R04H: GKICK, L=1E-08, DXP=0, DYP=0
 365 MBC6R04V: GKICK, L=1E-08, DXP=0, DYP=0
 D739: DRIFT, L=2.51076
 MQA6R05: QUADRUPOLE, L=0.3, K1=1.43655, TILT=0
 ITV6R05: MONITOR, L=0
 IPM6R06: MONITOR, L=0
 370 MQA6R06: QUADRUPOLE, L=0.3, K1=-0.0914428, TILT=0
 MBC6R06H: GKICK, L=1E-08, DXP=0, DYP=0
 D740: DRIFT, L=1.10685
 MQA6R07: QUADRUPOLE, L=0.3, K1=-1.08471, TILT=0
 MBC6R07V: GKICK, L=1E-08, DXP=0, DYP=0
 375 D741: DRIFT, L=0.62433
 MAB6R01: SBEND, L=1.00016, ANGLE=-3.59837, K1=-1.39277, &
 E1=-1.78057, E2=-1.78057, HGAP=0.012954, &
 HGAPX=0.012954, &
 FINT=0.5, TILT=90
 380 D742B: DRIFT, L=3.7794
 MAB6R03: SBEND, L=1.00016, ANGLE=3.59837, K1=-1.11421, &
 E1=1.78057, E2=1.78057, HGAP=0.012954, &
 HGAPX=0.012954, &
 FINT=0.5, TILT=90
 385 D743B: DRIFT, L=0.85645
 IPM6R08: MONITOR, L=0
 MQA6R08: QUADRUPOLE, L=0.3, K1=-1.63528, TILT=0
 MBC6R08H: GKICK, L=1E-08, DXP=0, DYP=0
 MBC6R08V: GKICK, L=1E-08, DXP=0, DYP=0
 390 IPM6R09: MONITOR, L=0
 MQA6R09: QUADRUPOLE, L=0.3, K1=1.24144, TILT=0
 MBC6R09H: GKICK, L=1E-08, DXP=0, DYP=0
 D744: DRIFT, L=4.1122
 IPM6R10: MONITOR, L=0
 395 MQA6R10: QUADRUPOLE, L=0.3, K1=-0.668385, TILT=0
 MBC6R10H: GKICK, L=1E-08, DXP=0, DYP=0
 MBC6R10V: GKICK, L=1E-08, DXP=0, DYP=0
 D745: DRIFT, L=0.62718
 MAU6R04: SBEND, L=2.00116, ANGLE=-6.77372, K1=-1.57347, &
 400 E1=-3.38688, E2=-3.38688, HGAP=0.012954, &

HGAPX=0.012954, &
FINT=0.5, TILT=90
D746: DRIFT, L=2.77941
MAX6R05: SBEND, L=1.00432, ANGLE=3.05992, K1=-0.388423, &
405 E1=6.77377, E2=3.71381, HGAP=0.023749, &
HGAPX=0.023749, &
FINT=0.5, TILT=90
D747: DRIFT, L=2.00421
MAW6R06: SBEND, L=1.0007, ANGLE=3.7138, K1=2.0943, &
410 E1=3.71381, E2=0, HGAP=0.01905, &
HGAPX=0.01905, &
FINT=0.5, TILT=90

ARC6: LINE=(MAW6S01, &
415 D700, MAX6S02, D701, MAU6S03, D702, &
IPM6S01, D703, MQA6S01, D704, MBC6S01H, &
D705, MBC6S01V, D706, ITV6S01, D707, &
IPM6S02, D703, MQA6S02, D704, MBC6S02H, &
D705, MBC6S02V, D708, IPM6S03, D703, &
420 MQA6S03, D704, MBC6S03H, D709A, MAB6S04, &
D710A, MAB6S06, D711, MQA6S04, D712, &
ITV6S04, D713, IPM6S05, D703, MQA6S05, &
D704, MBC6S05H, D705, MBC6S05V, D714, &
MQA6S06, D715, IPM6S07, D703, MQA6S07, &
425 D704, MBC6S07H, D705, MBC6S07V, D716, &
IPM6S08, D703, MQA6S08, D704, MBC6S08H, &
D705, MBC6S08V, D716, IPM6S09, D703, &
MQA6S09, D704, MBC6S09H, D705, MBC6S09V, &
D716, IPM6S10, D703, MQA6S10, D704, &
430 MBC6S10H, D705, MBC6S10V, D706, MAT6S10H, &
D717, IPM6E01, D703, MQC6E01, D704, &
MBM6E01H, D705, MBM6E01V, D706, IHA6E01, &
D718, MBY6E01, D719, MBZ6E02, D719, &
MBY6E03, D720, IPM6E02, D703, MQC6E02, &
435 D704, MBM6E02H, D705, MBM6E02V, D706, &
ITV6E02, D717, IPM6E03, D703, MQC6E03, &
D704, MBM6E03H, D705, MBM6E03V, D721, &
IPM6A01, D703, MQA6A01, D704, MBC6A01H, &
D705, MBC6A01V, D706, ITV6A01, D722, &
440 MBB6A01, D723, MBB6A02, D724, IPM6A02, &
D703, MQA6A02, D725, MBC6A02V, D726, &
IPM6A03, D703, MQA6A03, D704, MBC6A03H, &
D727, IHA6A03, D728, IPM6A04, D703, &
MQA6A04, D725, MBC6A04V, D729, MBB6A03, &
445 D723, MBB6A04, D724, IPM6A05, D703, &
MQA6A05, D704, MBC6A05H, D730, MBB6A05, &
D723, MBB6A06, D724, IPM6A06, D703, &
MQA6A06, D725, MBC6A06V, D731, IPM6A07, &
D703, MQA6A07, D704, MBC6A07H, D732, &
450 IPM6A08, D703, MQA6A08, D725, MBC6A08V, &
D733, MBB6A07, D723, MBB6A08, D724, &
IPM6A09, D703, MQA6A09, D704, MBC6A09H, &
D734, ITV6A09, D722, MBB6A09, D723, &
MBB6A10, D724, IPM6A10, D703, MQA6A10, &
455 D725, MBC6A10V, D726, D703, MQA6A11, &
D704, MBC6A11H, D735, IPM6A12, MQA6A12, &
D725, MBC6A12V, D729, MBB6A11, D723, &
MBB6A12, D724, IPM6A13, D703, MQA6A13, &
D704, MBC6A13H, D730, MBB6A13, D723, &
460 MBB6A14, D736, IPM6A14, MQA6A14, D725, &
MBC6A14V, D731, D703, MQA6A15, D704, &
MBC6A15H, D732, IPM6A16, D703, MQA6A16, &
D725, MBC6A16V, D733, MBB6A15, D723, &
MBB6A16, D724, IPM6A17, D703, MQA6A17, &
465 D704, MBC6A17H, D734, ITV6A17, D722, &
MBB6A17, D723, MBB6A18, D724, IPM6A18, &
D703, MQA6A18, D725, MBC6A18V, D726, &
D703, MQA6A19, D704, MBC6A19H, D735, &
IPM6A20, MQA6A20, D725, MBC6A20V, D729, &
470 MBB6A19, D723, MBB6A20, D724, IPM6A21, &
D703, MQA6A21, D704, MBC6A21H, D730, &
MBB6A21, D723, MBB6A22, D736, IPM6A22, &
MQA6A22, D725, MBC6A22V, D731, D703, &
MQA6A23, D704, MBC6A23H, D732, IPM6A24, &
475 D703, MQA6A24, D725, MBC6A24V, D733, &
MBB6A23, D723, MBB6A24, D724, IPM6A25, &
D703, MQA6A25, D704, MBC6A25H, D734, &
ITV6A25, D722, MBB6A25, D723, MBB6A26, &
D724, IPM6A26, D703, MQA6A26, D725, &
480 MBC6A26V, D726, D703, MQA6A27, D704, &
MBC6A27H, D735, IPM6A28, MQA6A28, D725, &
MBC6A28V, D729, MBB6A27, D723, MBB6A28, &
D724, IPM6A29, D703, MQA6A29, D704, &
MBC6A29H, D730, MBB6A29, D723, MBB6A30, &
485 D736, IPM6A30, MQA6A30, D725, MBC6A30V, &
D731, D703, MQA6A31, D704, MBC6A31H, &
D732, IPM6A32, D703, MQA6A32, D725, &
MBC6A32V, D733, MBB6A31, D723, MBB6A32, &
D724, IPM6R01, D703, MQA6R01, D704, &
490 MBC6R01H, D734, ITV6R01, D737, IPM6R02, &
D703, MQA6R02, D704, MBC6R02H, D705, &
MBC6R02V, D716, IPM6R03, D703, MQA6R03, &
D704, MBC6R03H, D738, IPM6R04, D703, &
MQA6R04, D704, MBC6R04H, D705, MBC6R04V, &
495 D739, MQA6R05, D712, ITV6R05, D713, &
IPM6R06, D703, MQA6R06, D704, MBC6R06H, &
D740, MQA6R07, D725, MBC6R07V, D741, &
MAB6R01, D742B, MAB6R03, D743B, IPM6R08, &
D703, MQA6R08, D704, MBC6R08H, D705, &
500 MBC6R08V, D708, IPM6R09, D703, MQA6R09, &
D704, MBC6R09H, D744, IPM6R10, D703, &
MQA6R10, D704, MBC6R10H, D705, MBC6R10V, &
D745, MAU6R04, D746, MAX6R05, D747, &
MAW6R06)

505 USE, ARC6
DIMAT

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* DIMAD PROGRAM : LAST MODIFIED ON May 27, 2005 *

CONVERTED FROM ../../OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//ARC6.OPT

1

TOTAL LENGTH OF MACHINE IS: 403.736 METERS

IN THIS RUN THERE ARE :
272 DISTINCT ELEMENTS. ALLOCATED MXELMD : 273
447 ELEMENTS IN MACHINE. ALLOCATED MXPOS_D : 449
100 MATRICES DEFINED. ALLOCATED MAXMAT : 101
1938 VALUES IN ELDAT. ALLOCATED MAXDAT : 1938
0 LCAVs. ALLOCATED MX_LCAV : 1

1

OPERATION LIST ,

MACHINE

1 2 1 0 1 1 1
34.654 1.34607 0 0
28.0149 -0.78771 0 0
0,

ELEMENT	#	BETAX	ALPHAX	BETAY	ALPHAY	ETAX	ETAPX	ETAY	ETAPY	NUX	NUY	ACC.LEN
\$\$INITIAL\$\$	0	34.6540	1.3461	28.0149	-0.7877	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.000
MAW6S01	1	32.1552	1.2891	29.4317	-0.7483	0.0000	0.0000	0.0324	0.0649	0.00477	0.00554	1.001
D700	2	27.3205	1.1232	32.6442	-0.8545	0.0000	0.0000	0.1624	0.0649	0.01554	0.01584	3.005
MAX6S02	3	25.0844	1.1709	34.4000	-0.9941	0.0000	0.0000	0.2543	0.1190	0.02166	0.02060	4.009
D701	4	19.3059	0.9082	40.3726	-1.1547	0.0000	0.0000	0.5849	0.1190	0.04181	0.03248	6.789
MAU6S03	5	15.8091	0.8272	45.2139	-1.2701	0.0000	0.0000	0.7043	0.0006	0.06008	0.03992	8.790
D702	6	14.8706	0.7644	46.7320	-1.3042	0.0000	0.0000	0.7047	0.0006	0.06621	0.04197	9.380
IPM6S01	7	14.8706	0.7644	46.7320	-1.3042	0.0000	0.0000	0.7047	0.0006	0.06621	0.04197	9.380
D703	8	14.5325	0.7404	47.3209	-1.3172	0.0000	0.0000	0.7048	0.0006	0.06864	0.04273	9.604
MQA6S01	9	15.0117	-2.3712	45.1717	8.3307	0.0000	0.0000	0.6829	-0.1455	0.07190	0.04375	9.904
D704	10	15.9442	-2.4564	42.0116	8.0297	0.0000	0.0000	0.6548	-0.1455	0.07389	0.04445	10.097
MBC6S01H	11	15.9442	-2.4564	42.0116	8.0297	0.0000	0.0000	0.6548	-0.1455	0.07389	0.04445	10.097
D705	12	16.9245	-2.5429	38.9225	7.7241	0.0000	0.0000	0.6263	-0.1455	0.07579	0.04523	10.293
MBC6S01V	13	16.9245	-2.5429	38.9225	7.7241	0.0000	0.0000	0.6263	-0.1455	0.07579	0.04523	10.293
D706	14	19.6079	-2.7659	31.5123	6.9363	0.0000	0.0000	0.5528	-0.1455	0.08021	0.04752	10.799
ITV6S01	15	19.6079	-2.7659	31.5123	6.9363	0.0000	0.0000	0.5528	-0.1455	0.08021	0.04752	10.799
D707	16	43.6069	-4.2706	2.3271	1.6208	0.0000	0.0000	0.0565	-0.1455	0.09881	0.11272	14.210
IPM6S02	17	43.6069	-4.2706	2.3271	1.6208	0.0000	0.0000	0.0565	-0.1455	0.09881	0.11272	14.210
D703	18	45.5479	-4.3697	1.6776	1.2706	0.0000	0.0000	0.0238	-0.1455	0.09962	0.13085	14.434
MQA6S02	19	43.9925	9.3948	1.1711	0.4688	0.0000	0.0000	-0.0194	-0.1448	0.10067	0.16572	14.734
D704	20	40.4390	9.0029	1.0289	0.2677	0.0000	0.0000	-0.0474	-0.1448	0.10140	0.19387	14.927
MBC6S02H	21	40.4390	9.0029	1.0289	0.2677	0.0000	0.0000	-0.0474	-0.1448	0.10140	0.19387	14.927
D705	22	36.9863	8.6050	0.9640	0.0634	0.0000	0.0000	-0.0758	-0.1448	0.10220	0.22541	15.123
MBC6S02V	23	36.9863	8.6050	0.9640	0.0634	0.0000	0.0000	-0.0758	-0.1448	0.10220	0.22541	15.123
D708	24	19.8016	6.2592	2.2095	-1.1407	0.0000	0.0000	-0.2433	-0.1448	0.10900	0.37094	16.280
IPM6S03	25	19.8016	6.2592	2.2095	-1.1407	0.0000	0.0000	-0.2433	-0.1448	0.10900	0.37094	16.280
D703	26	17.0917	5.8034	2.7745	-1.3747	0.0000	0.0000	-0.2758	-0.1448	0.11095	0.38540	16.504
MQA6S03	27	16.1087	-2.3664	3.2180	-0.0297	0.0000	0.0000	-0.2980	-0.0013	0.11390	0.40101	16.804
D704	28	17.0381	-2.4455	3.2411	-0.0898	0.0000	0.0000	-0.2983	-0.0013	0.11575	0.41054	16.997
MBC6S03H	29	17.0381	-2.4455	3.2411	-0.0898	0.0000	0.0000	-0.2983	-0.0013	0.11575	0.41054	16.997
D709A	30	22.5676	-2.8715	3.7642	-0.4132	0.0000	0.0000	-0.2996	-0.0013	0.12420	0.45865	18.037
MAB6S04	31	28.7422	-3.2996	4.8816	-0.7031	0.0000	0.0000	-0.2691	0.0622	0.13045	0.49608	19.037
D710A	32	60.0775	-4.8833	14.7550	-1.8753	0.0000	0.0000	-0.0311	0.0622	0.14514	0.57058	22.867
MAB6S06	33	70.0150	-5.0340	18.8096	-2.1812	0.0000	0.0000	0.0000	0.0000	0.14760	0.58014	23.867
D711	34	90.6583	-5.7539	28.2784	-2.7670	0.0000	0.0000	0.0000	0.0000	0.15142	0.59336	25.781
MQA6S04	35	102.0076	-33.1095	27.6112	4.9296	0.0000	0.0000	0.0000	0.0000	0.15192	0.59505	26.081
D712	36	169.8643	-42.7333	19.5237	4.1098	0.0000	0.0000	0.0000	0.0000	0.15300	0.60118	26.975
ITV6S04	37	169.8643	-42.7333	19.5237	4.1098	0.0000	0.0000	0.0000	0.0000	0.15300	0.60118	26.975
D713	38	185.6548	-44.6765	18.0688	3.9442	0.0000	0.0000	0.0000	0.0000	0.15317	0.60271	27.156
IPM6S05	39	185.6548	-44.6765	18.0688	3.9442	0.0000	0.0000	0.0000	0.0000	0.15317	0.60271	27.156
D703	40	206.2708	-47.0929	16.3429	3.7384	0.0000	0.0000	0.0000	0.0000	0.15335	0.60479	27.381
MQA6S05	41	213.1939	24.8078	15.7578	-1.7222	0.0000	0.0000	0.0000	0.0000	0.15357	0.60782	27.681
D704	42	203.7185	24.2494	16.4325	-1.7708	0.0000	0.0000	0.0000	0.0000	0.15372	0.60973	27.874
MBC6S05H	43	203.7185	24.2494	16.4325	-1.7708	0.0000	0.0000	0.0000	0.0000	0.15372	0.60973	27.874
D705	44	194.3196	23.6824	17.1367	-1.8202	0.0000	0.0000	0.0000	0.0000	0.15388	0.61159	28.070
MBC6S05V	45	194.3196	23.6824	17.1367	-1.8202	0.0000	0.0000	0.0000	0.0000	0.15388	0.61159	28.070
D714	46	153.5800	21.0490	20.6610	-2.0490	0.0000	0.0000	0.0000	0.0000	0.15472	0.61929	28.981
MQA6S06	47	145.7613	5.2822	21.2539	0.0935	0.0000	0.0000	0.0000	0.0000	0.15504	0.62156	29.281
D715	48	104.2190	4.4345	21.3220	-0.1094	0.0000	0.0000	0.0000	0.0000	0.16056	0.65374	33.556
IPM6S07	49	104.2190	4.4345	21.3220	-0.1094	0.0000	0.0000	0.0000	0.0000	0.16056	0.65374	33.556
D703	50	102.2365	4.3899	21.3736	-0.1201	0.0000	0.0000	0.0000	0.0000	0.16090	0.65542	33.781
MQA6S07	51	99.1527	5.8735	21.5499	-0.4686	0.0000	0.0000	0.0000	0.0000	0.16138	0.65765	34.081
D704	52	96.8972	5.8043	21.7331	-0.4796	0.0000	0.0000	0.0000	0.0000	0.16169	0.65907	34.274

MBC6S07H	53	96.8972	5.8043	21.7331	-0.4796	0.0000	0.0000	0.0000	0.0000	0.16169	0.65907	34.274
D705	54	94.6346	5.7341	21.9233	-0.4907	0.0000	0.0000	0.0000	0.0000	0.16202	0.66050	34.470
MBC6S07V	55	94.6346	5.7341	21.9233	-0.4907	0.0000	0.0000	0.0000	0.0000	0.16202	0.66050	34.470
D716	56	70.2880	4.9157	24.4625	-0.6201	0.0000	0.0000	-0.0001	0.0000	0.16648	0.67623	36.756
IPM6S08	57	70.2880	4.9157	24.4625	-0.6201	0.0000	0.0000	-0.0001	0.0000	0.16648	0.67623	36.756
D703	58	68.0974	4.8352	24.7440	-0.6328	0.0000	0.0000	-0.0001	0.0000	0.16700	0.67769	36.981
MQA6S08	59	67.1269	-1.5697	24.4251	1.6857	0.0000	0.0000	-0.0001	0.0000	0.16771	0.67962	37.281
D704	60	67.7352	-1.5797	23.7797	1.6554	0.0000	0.0000	-0.0001	0.0000	0.16816	0.68089	37.474
MBC6S08H	61	67.7352	-1.5797	23.7797	1.6554	0.0000	0.0000	-0.0001	0.0000	0.16816	0.68089	37.474
D705	62	68.3567	-1.5898	23.1366	1.6245	0.0000	0.0000	-0.0001	0.0000	0.16862	0.68222	37.670
MBC6S08V	63	68.3567	-1.5898	23.1366	1.6245	0.0000	0.0000	-0.0001	0.0000	0.16862	0.68222	37.670
D716	64	75.8954	-1.7078	16.5309	1.2649	0.0000	0.0000	-0.0001	0.0000	0.17367	0.70087	39.956
IPM6S09	65	75.8954	-1.7078	16.5309	1.2649	0.0000	0.0000	-0.0001	0.0000	0.17367	0.70087	39.956
D703	66	76.6653	-1.7194	15.9705	1.2296	0.0000	0.0000	-0.0001	0.0000	0.17414	0.70307	40.181
MQA6S09	67	78.0966	-3.0597	15.1681	1.4406	0.0000	0.0000	-0.0001	0.0000	0.17476	0.70614	40.481
D704	68	79.2835	-3.0854	14.6192	1.4014	0.0000	0.0000	0.0000	0.0000	0.17515	0.70820	40.674
MBC6S09H	69	79.2835	-3.0854	14.6192	1.4014	0.0000	0.0000	0.0000	0.0000	0.17515	0.70820	40.674
D705	70	80.4986	-3.1114	14.0774	1.3616	0.0000	0.0000	0.0000	0.0000	0.17554	0.71038	40.870
MBC6S09V	71	80.4986	-3.1114	14.0774	1.3616	0.0000	0.0000	0.0000	0.0000	0.17554	0.71038	40.870
D716	72	95.4180	-3.4147	8.9113	0.8981	0.0000	0.0000	0.0000	0.0000	0.17969	0.74309	43.156
IPM6S10	73	95.4180	-3.4147	8.9113	0.8981	0.0000	0.0000	0.0000	0.0000	0.17969	0.74309	43.156
D703	74	96.9589	-3.4445	8.5180	0.8526	0.0000	0.0000	0.0000	0.0000	0.18006	0.74720	43.381
MQA6S10	75	96.3491	5.4583	8.2525	0.0403	0.0000	0.0000	0.0000	0.0000	0.18056	0.75292	43.681
D704	76	94.2525	5.3966	8.2415	0.0169	0.0000	0.0000	0.0000	0.0000	0.18088	0.75665	43.874
MBC6S10H	77	94.2525	5.3966	8.2415	0.0169	0.0000	0.0000	0.0000	0.0000	0.18088	0.75665	43.874
D705	78	92.1483	5.3339	8.2395	-0.0069	0.0000	0.0000	0.0000	0.0000	0.18121	0.76043	44.070
MBC6S10V	79	92.1483	5.3339	8.2395	-0.0069	0.0000	0.0000	0.0000	0.0000	0.18121	0.76043	44.070
D706	80	86.8378	5.1724	8.2776	-0.0683	0.0000	0.0000	0.0000	0.0000	0.18211	0.77018	44.575
MAT6S10H	81	86.8378	5.1724	8.2776	-0.0683	0.0000	0.0000	0.0000	0.0000	0.18211	0.77018	44.575
D717	82	3.4833	0.3366	38.1307	-1.9047	0.0000	0.0000	-0.0001	0.0000	0.35005	0.93239	59.706
IPM6E01	83	3.4833	0.3366	38.1307	-1.9047	0.0000	0.0000	-0.0001	0.0000	0.35005	0.93239	59.706
D703	84	3.3482	0.2648	38.9926	-1.9320	0.0000	0.0000	-0.0001	0.0000	0.36052	0.93331	59.931
MQC6E01	85	3.3036	-0.1146	39.1358	1.4586	0.0000	0.0000	-0.0001	0.0000	0.37496	0.93453	60.231
D704	86	3.3593	-0.1739	38.5754	1.4432	0.0000	0.0000	-0.0001	0.0000	0.38419	0.93532	60.424
MBM6E01H	87	3.3593	-0.1739	38.5754	1.4432	0.0000	0.0000	-0.0001	0.0000	0.38419	0.93532	60.424
D705	88	3.4393	-0.2340	38.0124	1.4275	0.0000	0.0000	-0.0001	0.0000	0.39338	0.93614	60.620
MBM6E01V	89	3.4393	-0.2340	38.0124	1.4275	0.0000	0.0000	-0.0001	0.0000	0.39338	0.93614	60.620
D706	90	3.7542	-0.3890	36.5898	1.3871	0.0000	0.0000	-0.0001	0.0000	0.41584	0.93829	61.125
IHA6E01	91	3.7542	-0.3890	36.5898	1.3871	0.0000	0.0000	-0.0001	0.0000	0.41584	0.93829	61.125
D718	92	3.9496	-0.4596	35.9551	1.3687	0.0000	0.0000	-0.0001	0.0000	0.42537	0.93930	61.356
MBY6E01	93	5.1677	-0.7666	33.2969	1.3475	-0.0210	-0.0420	-0.0001	0.0000	0.46089	0.94391	62.356
D719	94	20.5345	-2.3040	21.9278	0.9243	-0.2313	-0.0420	0.0000	0.0000	0.54163	0.97355	67.360
MBZ6E02	95	30.9693	-2.9179	18.4265	0.8196	-0.2313	0.0420	0.0000	0.0000	0.55425	0.98942	69.361
D719	96	67.8687	-4.4554	12.4951	0.3656	-0.0210	0.0420	0.0000	0.0000	0.57166	1.04291	74.365
MBY6E03	97	77.2144	-4.7624	11.8117	0.2956	0.0000	0.0000	0.0000	0.0000	0.57386	1.05603	75.366
D720	98	86.0385	-5.0385	11.3541	0.2127	0.0000	0.0000	0.0000	0.0000	0.57562	1.06842	76.266
IPM6E02	99	86.0385	-5.0385	11.3541	0.2127	0.0000	0.0000	0.0000	0.0000	0.57562	1.06842	76.266
D703	100	88.3178	-5.1074	11.2632	0.1920	0.0000	0.0000	0.0000	0.0000	0.57603	1.07158	76.491
MQC6E02	101	88.8491	3.3534	11.4794	-0.9196	0.0000	0.0000	0.0000	0.0000	0.57656	1.07580	76.981
D704	102	87.5588	3.3268	11.8406	-0.9507	0.0000	0.0000	0.0000	0.0000	0.57691	1.07844	76.984
MBM6E02H	103	87.5588	3.3268	11.8406	-0.9507	0.0000	0.0000	0.0000	0.0000	0.57691	1.07844	76.984
D705	104	86.2594	3.2997	12.2197	-0.9822	0.0000	0.0000	0.0000	0.0000	0.57727	1.08103	77.180
MBM6E02V	105	86.2594	3.2997	12.2197	-0.9822	0.0000	0.0000	0.0000	0.0000	0.57727	1.08103	77.180
D706	106	82.9589	3.2301	13.2537	-1.0635	0.0000	0.0000	0.0000	0.0000	0.57822	1.08735	77.685
ITV6E02	107	82.9589	3.2301	13.2537	-1.0635	0.0000	0.0000	0.0000	0.0000	0.57822	1.08735	77.685
D717	108	16.7645	1.1448	82.2459	-3.4963	0.0000	0.0000	0.0001	0.0000	0.64471	1.16312	92.816
IPM6E03	109	16.7645	1.1448	82.2459	-3.4963	0.0000	0.0000	0.0001	0.0000	0.64471	1.16312	92.816
D703	110	16.2571	1.1138	83.8249	-3.5324	0.0000	0.0000	0.0001	0.0000	0.64688	1.16355	93.041
MQC6E03	111	16.0749	-0.5006	83.4557	4.7507	0.0000	0.0000	0.0001	0.0000	0.64985	1.16412	93.341
D704	112	16.2712	-0.5156	81.6311	4.6962	0.0000	0.0000	0.0001	0.0000	0.65175	1.16449	93.534
MBM6E03H	113	16.2712	-0.5156	81.6311	4.6962	0.0000	0.0000	0.0001	0.0000	0.65175	1.16449	93.534
D705	114	16.4764	-0.5309	79.8002	4.6408	0.0000	0.0000	0.0001	0.0000	0.65365	1.16488	93.730
MBM6E03V	115	16.4764	-0.5309	79.8002	4.6408	0.0000	0.0000	0.0001	0.0000	0.65365	1.16488	93.730
D721	116	52.0977	-1.7473	3.7199	0.2249	0.0000	0.0000	0.0000	0.0000	0.74325	1.34590	109.366
IPM6A01	117	52.0977	-1.7473	3.7199	0.2249	0.0000	0.0000	0.0000	0.0000	0.74325	1.34590	109.366
D703	118	52.8867	-1.7648	3.6331	0.1614	0.0000	0.0000	0.0000	0.0000	0.74393	1.35563	109.591
MQA6A01	119	52.0321	4.5789	3.6930	-0.3634	0.0000	0.0000	0.0000	0.0000	0.74484	1.36876	109.891
D704	120	50.2790	4.4974	3.8448	-0.4226	0.0000	0.0000	0.0000	0.0000	0.74544	1.37692	110.084
MBC6A01H	121	50.2790	4.4974	3.8448	-0.4226	0.0000	0.0000	0.0000	0.0000	0.74544	1.37692	110.084
D705	122	48.5315	4.4146	4.0223	-0.4827	0.0000	0.0000	0.0000	0.0000	0.74607	1.38486	110.280
MBC6A01V	123	48.5315	4.4146	4.0223	-0.4827	0.0000	0.0000	0.0000	0.0000	0.74607	1.38486	110.280
D706	124	44.1765	4.2012	4.5887	-0.6377	0.0000	0.0000	0.0000	0.0000	0.74781	1.40363	110.785
ITV6A01	125	44.1765	4.2012	4.5887	-0.6377	0.0000	0.0000	0.0000	0.0000	0.74781	1.40363	110.785
D722	126	33.8156	3.6436	6.8078	-1.0425	0.0000	0.0000	0.0000	0.0000	0.75325	1.44160	112.106
MBB6A01	127	20.8416	2.8423	12.1634	-1.6251	0.0981	0.0982	0.0000	0.0000	0.76522	1.47690	114.107
D723	128	7.4279	1.4952	25.0777	-2.5509	0.4017	0.0982	0.0000	0.0000	0.80520	1.50523	117.199
MBB6A02	129	3.1759	0.6304	36.3296	-3.0538	0.6950	0.1953	0.0000	0.0000	0.87261	1.51580	119.200
D724	130	2.4097	-0.2455	49.6148	-3.6196	1.0839	0.1953	0.0000	0.0000	1.00045	1.52326	121.191
IPM6A02	131	2.4097	-0.2455	49.6148	-3.6196	1.0839	0.1953	0.0000	0.0000	1.00045	1.52326	121.191
D703	132	2.5423	-0.3444	51.2555	-3.6834	1.1278	0.1953	0.0000	0.0000	1.01492	1.52397	121.416
MQA6A02	133	2.9295	-0.9686	50.8210	5.1065	1.2160	0.3956	0.0000	0.0000	1.03260	1.52490	121.716
D725	134	3.7838	-1.2261	46.9264	4.8992	1.3700	0.3956	0.0000	0.0000	1.05125	1.52617	122.105
MBC6A02V	135	3.7838	-1.2261	46.9264	4.8992	1.3700	0.3956	0.0000	0.0000	1.05125	1.52617	122.105
D726	136	17.5567	-3.2581	21.8579	3.2628	2.5852	0.3956	0.0000	0.0000</			

MQA6A05	157	27.2880	1.9162	3.4804	-0.2748	-0.7482	0.0526	0.0000	0.0000	1.36620	1.74352	141.511
D704	158	26.5541	1.8832	3.5981	-0.3345	-0.7381	0.0526	0.0000	0.0000	1.36734	1.75221	141.704
MBC6A05H	159	26.5541	1.8832	3.5981	-0.3345	-0.7381	0.0526	0.0000	0.0000	1.36734	1.75221	141.704
D730	160	19.6377	1.5369	6.2147	-0.9594	-0.6317	0.0526	0.0000	0.0000	1.38146	1.82254	143.727
MBB6A05	161	14.1156	1.2237	11.2514	-1.5494	-0.4273	0.1520	-0.0001	0.0000	1.40059	1.86102	145.727
D723	162	8.2391	0.6765	23.7251	-2.4841	0.0426	0.1520	-0.0001	0.0000	1.44687	1.89133	148.820
MBB6A06	163	6.2147	0.3355	34.7293	-2.9972	0.4440	0.2498	-0.0001	0.0000	1.49187	1.90244	150.821
D724	164	5.5884	-0.0209	47.8020	-3.5694	0.9412	0.2498	-0.0001	0.0000	1.54671	1.91022	152.812
IPM6A06	165	5.5884	-0.0209	47.8020	-3.5694	0.9412	0.2498	-0.0001	0.0000	1.54671	1.91022	152.812
D703	166	5.6068	-0.0611	49.4202	-3.6340	0.9973	0.2498	-0.0001	0.0000	1.55310	1.91095	153.036
MQA6A06	167	5.9549	-1.1189	49.0503	4.8457	1.0987	0.4289	-0.0001	0.0000	1.56144	1.91192	153.336
D725	168	6.8832	-1.2661	45.3537	4.6515	1.2656	0.4289	-0.0001	0.0000	1.57112	1.91323	153.725
MBC6A06V	169	6.8832	-1.2661	45.3537	4.6515	1.2656	0.4289	-0.0001	0.0000	1.57112	1.91323	153.725
D731	170	18.2283	-2.4277	21.4889	3.1185	2.5829	0.4289	-0.0001	0.0000	1.61533	1.92891	156.797
IPM6A07	171	18.2283	-2.4277	21.4889	3.1185	2.5829	0.4289	-0.0001	0.0000	1.61533	1.92891	156.797
D703	172	19.3381	-2.5126	20.1130	3.0064	2.6793	0.4289	-0.0001	0.0000	1.61723	1.93063	157.021
MQA6A07	173	19.0678	3.3859	20.1452	-3.1171	2.6841	-0.3974	-0.0001	0.0000	1.61968	1.93304	157.321
D704	174	17.7843	3.2596	21.3692	-3.2199	2.6073	-0.3974	-0.0001	0.0000	1.62135	1.93452	157.515
MBC6A07H	175	17.7843	3.2596	21.3692	-3.2199	2.6073	-0.3974	-0.0001	0.0000	1.62135	1.93452	157.515
D732	176	3.4616	1.1237	48.0907	-4.9581	1.3087	-0.3974	-0.0001	0.0000	1.68971	1.95077	160.782
IPM6A08	177	3.4616	1.1237	48.0907	-4.9581	1.3087	-0.3974	-0.0001	0.0000	1.68971	1.95077	160.782
D703	178	2.9897	0.9769	50.3452	-5.0776	1.2194	-0.3974	-0.0001	0.0000	1.70084	1.95150	161.007
MQA6A08	179	2.5997	0.3453	50.7868	3.6308	1.1307	-0.1966	-0.0001	0.0000	1.71815	1.95244	161.307
D725	180	2.3961	0.1777	48.0026	3.5221	1.0542	-0.1966	-0.0001	0.0000	1.74307	1.95369	161.696
MBC6A08V	181	2.3961	0.1777	48.0026	3.5221	1.0542	-0.1966	-0.0001	0.0000	1.74307	1.95369	161.696
D733	182	3.1827	-0.6085	36.0698	3.0121	0.6952	-0.1966	-0.0001	0.0000	1.85806	1.96068	163.522
MBB6A07	183	7.3095	-1.4545	24.9658	2.5189	0.3994	-0.0994	0.0000	0.0000	1.92598	1.97131	165.523
D723	184	20.3823	-2.7727	12.2001	1.6091	0.0920	-0.0994	0.0000	0.0000	1.96674	1.99966	168.616
MBB6A08	185	33.0438	-3.5569	6.8877	1.0371	-0.0086	-0.0012	0.0000	0.0000	1.97900	2.03470	170.616
D724	186	48.8435	-4.3794	3.9529	0.4372	-0.0110	-0.0012	0.0000	0.0000	1.98689	2.09700	172.607
IPM6A09	187	48.8435	-4.3794	3.9529	0.4372	-0.0110	-0.0012	0.0000	0.0000	1.98689	2.09700	172.607
D703	188	50.8320	-4.4722	3.7716	0.3695	-0.0113	-0.0012	0.0000	0.0000	1.98761	2.10627	172.832
MQA6A09	189	50.8084	4.5495	3.7733	-0.3751	-0.0113	0.0008	0.0000	0.0000	1.98854	2.11905	173.132
D704	190	49.0669	4.4670	3.9295	-0.4335	-0.0112	0.0008	0.0000	0.0000	1.98915	2.12704	173.325
MBC6A09H	191	49.0669	4.4670	3.9295	-0.4335	-0.0112	0.0008	0.0000	0.0000	1.98915	2.12704	173.325
D734	192	43.0094	4.1674	4.6865	-0.6456	-0.0106	0.0008	0.0000	0.0000	1.99158	2.15317	174.026
ITV6A09	193	43.0094	4.1674	4.6865	-0.6456	-0.0106	0.0008	0.0000	0.0000	1.99158	2.15317	174.026
D722	194	32.7463	3.6034	6.9192	-1.0449	-0.0096	0.0008	0.0000	0.0000	1.99719	2.19043	175.347
MBB6A09	195	19.9565	2.7905	12.2665	-1.6187	0.0901	0.0990	0.0000	0.0000	2.00963	2.22529	177.348
D723	196	6.9082	1.4289	25.1005	-2.5313	0.3962	0.0990	0.0001	0.0000	2.05204	2.25349	180.441
MBB6A10	197	2.9414	0.5542	36.2573	-3.0260	0.6911	0.1962	0.0001	0.0000	2.12506	2.26406	182.441
D724	198	2.4960	-0.3305	49.4156	-3.5836	1.0816	0.1962	0.0001	0.0000	2.25640	2.27155	184.432
IPM6A10	199	2.4960	-0.3305	49.4156	-3.5836	1.0816	0.1962	0.0001	0.0000	2.25640	2.27155	184.432
D703	200	2.6669	-0.4303	51.0398	-3.6466	1.1257	0.1962	0.0001	0.0000	2.27028	2.27226	184.657
MQA6A10	201	3.1145	-1.0870	50.5946	5.1051	1.2142	0.3961	0.0001	0.0000	2.28702	2.27319	184.957
D725	202	4.0668	-1.3597	46.7014	4.8969	1.3683	0.3961	0.0001	0.0000	2.30446	2.27447	185.346
MBC6A10V	203	4.0668	-1.3597	46.7014	4.8969	1.3683	0.3961	0.0001	0.0000	2.30446	2.27447	185.346
D726	204	19.0270	-3.5111	21.6664	3.2541	2.5850	0.3961	0.0001	0.0000	2.36123	2.28986	188.417
D703	205	20.6399	-3.6685	20.2313	3.1339	2.6740	0.3961	0.0001	0.0000	2.36303	2.29157	188.642
MQA6A11	206	20.9338	2.7189	20.1968	-3.0153	2.6693	-0.4271	0.0001	0.0000	2.36529	2.29396	188.942
D704	207	19.8985	2.6415	21.3802	-3.1118	2.5868	-0.4271	0.0001	0.0000	2.36680	2.29544	189.135
MBC6A11H	208	19.8985	2.6415	21.3802	-3.1118	2.5868	-0.4271	0.0001	0.0000	2.36680	2.29544	189.135
D735	209	6.3386	1.2415	49.2081	-4.8568	1.0953	-0.4271	0.0001	0.0000	2.41712	2.31261	192.627
IPM6A12	210	6.3386	1.2415	49.2081	-4.8568	1.0953	-0.4271	0.0001	0.0000	2.41712	2.31261	192.627
MQA6A12	211	5.9367	0.1213	49.5765	3.6500	0.9944	-0.2485	0.0001	0.0000	2.42498	2.31357	192.927
D725	212	5.8682	0.0547	46.7788	3.5375	0.8977	-0.2485	0.0001	0.0000	2.43548	2.31486	193.317
MBC6A12V	213	5.8682	0.0547	46.7788	3.5375	0.8977	-0.2485	0.0001	0.0000	2.43548	2.31486	193.317
D729	214	6.2383	-0.2574	34.8217	3.0100	0.4438	-0.2485	0.0001	0.0000	2.48428	2.32206	195.143
MBB6A11	215	7.9192	-0.5829	23.7718	2.4941	0.0450	-0.1507	0.0001	0.0000	2.53011	2.33315	197.144
D723	216	13.1424	-1.1061	11.2505	1.5548	-0.4212	-0.1507	0.0001	0.0000	2.57913	2.36342	200.236
MBB6A12	217	18.1692	-1.4069	6.1984	0.9617	-0.6231	-0.0514	0.0000	0.0000	2.59974	2.40196	202.237
D724	218	24.4208	-1.7333	3.6001	0.3435	-0.7253	-0.0514	0.0000	0.0000	2.61481	2.47120	204.228
IPM6A13	219	24.4208	-1.7333	3.6001	0.3435	-0.7253	-0.0514	0.0000	0.0000	2.61481	2.47120	204.228
D703	220	25.2078	-1.7702	3.4614	0.2737	-0.7369	-0.0514	0.0000	0.0000	2.61625	2.48133	204.452
MQA6A13	221	25.2148	1.7473	3.4678	-0.2953	-0.7368	0.0518	0.0000	0.0000	2.61813	2.49523	204.752
D704	222	24.5458	1.7163	3.5936	-0.3558	-0.7268	0.0518	0.0000	0.0000	2.61937	2.50394	204.946
MBC6A13H	223	24.5458	1.7163	3.5936	-0.3558	-0.7268	0.0518	0.0000	0.0000	2.61937	2.50394	204.946
D730	224	18.2616	1.3912	6.3150	-0.9899	-0.6221	0.0518	0.0000	0.0000	2.63459	2.57372	208.968
MBB6A13	225	13.2841	1.0972	11.4908	-1.5883	-0.4193	0.1512	0.0000	0.0000	2.65505	2.61148	208.969
D723	226	8.0847	0.5841	24.2460	-2.5363	0.0481	0.1512	0.0000	0.0000	2.70327	2.64114	212.061
MBB6A14	227	6.3851	0.2655	35.4729	-3.0560	0.4479	0.2489	-0.0001	0.0000	2.74808	2.65201	214.062
D736	228	6.0316	-0.1059	50.4441	-3.7017	0.9994	0.2489	-0.0001	0.0000	2.80618	2.66035	216.277
IPM6A14	229	6.0316	-0.1059	50.4441	-3.7017	0.9994	0.2489	-0.0001	0.0000	2.80618	2.66035	216.277
MQA6A14	230	6.4287	-1.2403	50.0620	4.9535	1.1005	0.4284	-0.0001	0.0000	2.81392	2.66129	216.577
D725	231	7.4541	-1.3940	46.2831	4.7550	1.2673	0.4284	-0.0001	0.0000	2.82287	2.66258	216.967
MBC6A14V	232	7.4541	-1.3940	46.2831	4.7550	1.2673	0.4284	-0.0001	0.0000	2.82287	2.66258	216.967
D731	233	19.7424	-2.6068	21.8864	3.1882	2.5830	0.4284	-0.0001	0.0000	2.86361	2.67796	220.038
D703	234	20.9336	-2.6955	20.4797	3.0736	2.6793	0.4284	0.0000	0.0000	2.86537	2.67965	220.263
MQA6A15	235	20.6260	3.6893	20.5048	-3.1599	2.6839	-0.3979	-0.0001	0.0000	2.86763	2.68202	220.563
D704	236	19.2272	3.5525	21.7454	-3.2633	2.6070	-0.3979	-0.0001	0.0000	2.86918	2.68347	220.756
MBC6A15H	237	19.2272	3.5525	21.7454	-3.2633	2.6070	-0.3979	-0.0001	0.0000	2.86918	2.68347	220.756
D732	238	3.5747	1.2378	48.7908	-5.0138	1.3069	-0.3979	-0.0001	0.0000	2.93365	2.69946	224.023
IPM6A16	239	3.5747	1.2378	48.7908	-5.0138	1.3069	-0.3979	-0.0001	0.0000	2.93365	2.69946	224.023
D703	240	3.										

IPM6A18	261	2.4097	-0.2455	49.6147	-3.6196	1.0843	0.1974	0.0000	0.0000	3.50045	3.02325	247.673
D703	262	2.5423	-0.3444	51.2554	-3.6834	1.1286	0.1974	0.0000	0.0000	3.51491	3.02396	247.898
MQA6A18	263	2.9295	-0.9686	50.8210	5.1065	1.2175	0.3979	0.0000	0.0000	3.53260	3.02489	248.198
D725	264	3.7838	-1.2261	46.9263	4.8992	1.3724	0.3979	0.0000	0.0000	3.55125	3.02616	248.587
MBC6A18V	265	3.7838	-1.2261	46.9263	4.8992	1.3724	0.3979	0.0000	0.0000	3.55125	3.02616	248.587
D726	266	17.5567	-3.2581	21.8578	3.2628	2.5945	0.3979	0.0000	0.0000	3.61274	3.04144	251.659
D703	267	19.0539	-3.4068	20.4188	3.1431	2.6839	0.3979	0.0000	0.0000	3.61470	3.04314	251.883
MQA6A19	268	19.3379	2.4892	20.3959	-3.0647	2.6793	-0.4284	0.0000	0.0000	3.61715	3.04551	252.183
D704	269	18.3902	2.4173	21.5988	-3.1631	2.5966	-0.4284	0.0000	0.0000	3.61878	3.04698	252.376
MBC6A19H	270	18.3902	2.4173	21.5988	-3.1631	2.5966	-0.4284	0.0000	0.0000	3.61878	3.04698	252.376
D735	271	6.0449	1.1178	49.9045	-4.9424	1.1005	-0.4284	0.0000	0.0000	3.67250	3.06394	255.869
IPM6A20	272	6.0449	1.1178	49.9045	-4.9424	1.1005	-0.4284	0.0000	0.0000	3.67250	3.06394	255.869
MQA6A20	273	5.7017	0.0458	50.2881	3.6857	0.9994	-0.2489	0.0000	0.0000	3.68071	3.06488	256.169
D725	274	5.6927	-0.0226	47.4628	3.5728	0.9025	-0.2489	0.0000	0.0000	3.69159	3.06615	256.558
MBC6A20V	275	5.6927	-0.0226	47.4628	3.5728	0.9025	-0.2489	0.0000	0.0000	3.69159	3.06615	256.558
D729	276	6.3616	-0.3436	35.3806	3.0432	0.4479	-0.2489	0.0000	0.0000	3.74066	3.07324	258.384
MBB6A19	277	8.4047	-0.6778	24.1994	2.5263	0.0481	-0.1512	0.0000	0.0000	3.78467	3.08414	260.385
D723	278	14.2573	-1.2147	11.4918	1.5829	-0.4193	-0.1512	0.0000	0.0000	3.83026	3.11383	263.477
MBB6A20	279	19.7302	-1.5212	6.3313	0.9876	-0.6221	-0.0518	0.0000	0.0000	3.84924	3.15154	265.478
D724	280	26.4527	-1.8556	3.6357	0.3665	-0.7252	-0.0518	0.0000	0.0000	3.86313	3.21964	267.469
IPM6A21	281	26.4527	-1.8556	3.6357	0.3665	-0.7252	-0.0518	0.0000	0.0000	3.86313	3.21964	267.469
D703	282	27.2949	-1.8933	3.4868	0.2964	-0.7368	-0.0518	0.0000	0.0000	3.86446	3.22969	267.694
MQA6A21	283	27.2880	1.9162	3.4804	-0.2748	-0.7369	0.0514	0.0000	0.0000	3.86620	3.24351	267.994
D704	284	26.5541	1.8832	3.5981	-0.3345	-0.7270	0.0514	0.0000	0.0000	3.86734	3.25220	268.187
MBC6A21H	285	26.5541	1.8832	3.5981	-0.3345	-0.7270	0.0514	0.0000	0.0000	3.86734	3.25220	268.187
D730	286	19.6378	1.5369	6.2147	-0.9594	-0.6231	0.0514	0.0000	0.0000	3.88145	3.32253	270.209
MBB6A21	287	14.1156	1.2237	11.2514	-1.5494	-0.4212	0.1507	0.0001	0.0000	3.90058	3.36101	272.210
D723	288	8.2392	0.6765	23.7251	-2.4841	0.0449	0.1507	0.0001	0.0000	3.94687	3.39132	275.302
MBB6A22	289	6.2147	0.3355	34.7293	-2.9972	0.4438	0.2485	0.0001	0.0000	3.99187	3.40243	277.303
D736	290	5.6068	-0.0611	49.4202	-3.6340	0.9944	0.2485	0.0001	0.0000	4.05310	3.41094	279.519
IPM6A22	291	5.6068	-0.0611	49.4202	-3.6340	0.9944	0.2485	0.0001	0.0000	4.05310	3.41094	279.519
MQA6A22	292	5.9549	-1.1189	49.0503	4.8457	1.0953	0.4271	0.0001	0.0000	4.06144	3.41190	279.819
D725	293	6.8832	-1.2661	45.3536	4.6514	1.2615	0.4271	0.0001	0.0000	4.07112	3.41322	280.208
MBC6A22V	294	6.8832	-1.2661	45.3536	4.6514	1.2615	0.4271	0.0001	0.0000	4.07112	3.41322	280.208
D731	295	18.2283	-2.4276	21.4889	3.1185	2.5733	0.4271	0.0001	0.0000	4.11533	3.42890	283.279
D703	296	19.3381	-2.5126	20.1129	3.0064	2.6693	0.4271	0.0001	0.0000	4.11723	3.43062	283.504
MQA6A23	297	19.0678	3.3859	20.1452	-3.1171	2.6740	-0.3961	0.0001	0.0000	4.11968	3.43303	283.804
D704	298	17.7843	3.2596	21.3692	-3.2199	2.5975	-0.3961	0.0001	0.0000	4.12135	3.43451	283.997
MBC6A23H	299	17.7843	3.2596	21.3692	-3.2199	2.5975	-0.3961	0.0001	0.0000	4.12135	3.43451	283.997
D732	300	3.4616	1.1237	48.0906	-4.9581	1.3031	-0.3961	0.0001	0.0000	4.18971	3.45076	287.264
IPM6A24	301	3.4616	1.1237	48.0906	-4.9581	1.3031	-0.3961	0.0001	0.0000	4.18971	3.45076	287.264
D703	302	2.9897	0.9769	50.3451	-5.0776	1.2141	-0.3961	0.0001	0.0000	4.20083	3.45149	287.489
MQA6A24	303	2.5997	0.3453	50.7867	3.6308	1.1257	-0.1962	0.0001	0.0000	4.21814	3.45242	287.789
D725	304	2.3961	0.1777	48.0025	3.5221	1.0493	-0.1962	0.0001	0.0000	4.24306	3.45368	288.178
MBC6A24V	305	2.3961	0.1777	48.0025	3.5221	1.0493	-0.1962	0.0001	0.0000	4.24306	3.45368	288.178
D733	306	3.1827	-0.6085	36.0697	3.0121	0.6911	-0.1962	0.0001	0.0000	4.35806	3.46067	290.005
MBB6A23	307	7.3095	-1.4545	24.9658	2.5189	0.3962	-0.0990	0.0000	0.0000	4.42597	3.47129	292.005
D723	308	20.3824	-2.7727	12.2001	1.6091	0.0901	-0.0990	0.0000	0.0000	4.46674	3.49964	295.098
MBB6A24	309	33.0439	-3.5570	6.8877	1.0371	-0.0096	-0.0008	0.0000	0.0000	4.47899	3.53469	297.099
D724	310	48.8436	-4.3794	3.9529	0.4372	-0.0111	-0.0008	0.0000	0.0000	4.48688	3.59699	299.089
IPM6A25	311	48.8436	-4.3794	3.9529	0.4372	-0.0111	-0.0008	0.0000	0.0000	4.48688	3.59699	299.089
D703	312	50.8321	-4.4722	3.7716	0.3695	-0.0113	-0.0008	0.0000	0.0000	4.48760	3.60626	299.314
MQA6A25	313	50.8085	4.5495	3.7733	-0.3751	-0.0113	0.0012	0.0000	0.0000	4.48853	3.61904	299.614
D704	314	49.0670	4.4670	3.9295	-0.4335	-0.0110	0.0012	0.0000	0.0000	4.48915	3.62702	299.807
MBC6A25H	315	49.0670	4.4670	3.9295	-0.4335	-0.0110	0.0012	0.0000	0.0000	4.48915	3.62702	299.807
D734	316	43.0095	4.1674	4.6865	-0.6456	-0.0102	0.0012	0.0000	0.0000	4.49158	3.65316	300.509
ITV6A25	317	43.0095	4.1674	4.6865	-0.6456	-0.0102	0.0012	0.0000	0.0000	4.49158	3.65316	300.509
D722	318	32.7464	3.6034	6.9192	-1.0449	-0.0086	0.0012	0.0000	0.0000	4.49718	3.69041	301.830
MBB6A25	319	19.9565	2.7905	12.2665	-1.6187	0.0920	0.0994	0.0000	0.0000	4.50962	3.72528	303.830
D723	320	6.9083	1.4289	25.1005	-2.5313	0.3995	0.0994	-0.0001	0.0000	4.55204	3.75348	306.923
MBB6A26	321	2.9414	0.5542	36.2573	-3.0260	0.6952	0.1966	-0.0001	0.0000	4.62505	3.76405	308.924
D724	322	2.4960	-0.3305	49.4157	-3.5836	1.0865	0.1966	-0.0001	0.0000	4.75640	3.77154	310.914
IPM6A26	323	2.4960	-0.3305	49.4157	-3.5836	1.0865	0.1966	-0.0001	0.0000	4.75640	3.77154	310.914
D703	324	2.6669	-0.4303	51.0399	-3.6466	1.1307	0.1966	-0.0001	0.0000	4.77027	3.77225	311.139
MQA6A26	325	3.1145	-1.0870	50.5947	5.1051	1.2194	0.3974	-0.0001	0.0000	4.78701	3.77318	311.439
D725	326	4.0668	-1.3597	46.7015	4.8969	1.3741	0.3974	-0.0001	0.0000	4.80446	3.77445	311.828
MBC6A26V	327	4.0668	-1.3597	46.7015	4.8969	1.3741	0.3974	-0.0001	0.0000	4.80446	3.77445	311.828
D726	328	19.0270	-3.5111	21.6664	3.2541	2.5948	0.3974	-0.0001	0.0000	4.86122	3.78985	314.900
D703	329	20.6399	-3.6685	20.2313	3.1339	2.6840	0.3974	-0.0001	0.0000	4.86303	3.79155	315.124
MQA6A27	330	20.9339	2.7189	20.1968	-3.0153	2.6793	-0.4289	-0.0001	0.0000	4.86529	3.79395	315.424
D704	331	19.8985	2.6415	21.3803	-3.1118	2.5965	-0.4289	-0.0001	0.0000	4.86679	3.79543	315.618
MBC6A27H	332	19.8985	2.6415	21.3803	-3.1118	2.5965	-0.4289	-0.0001	0.0000	4.86679	3.79543	315.618
D735	333	6.3387	1.2415	49.2082	-4.8569	1.0987	-0.4289	-0.0001	0.0000	4.91712	3.81260	319.110
IPM6A28	334	6.3387	1.2415	49.2082	-4.8569	1.0987	-0.4289	-0.0001	0.0000	4.91712	3.81260	319.110
MQA6A28	335	5.9367	0.1213	49.5766	3.6500	0.9973	-0.2498	-0.0001	0.0000	4.92497	3.81356	319.410
D725	336	5.8682	0.0547	46.7789	3.5375	0.9001	-0.2498	-0.0001	0.0000	4.93547	3.81484	319.799
MBC6A28V	337	5.8682	0.0547	46.7789	3.5375	0.9001	-0.2498	-0.0001	0.0000	4.93547	3.81484	319.799
D729	338	6.2383	-0.2574	34.8218	3.0100	0.4440	-0.2498	-0.0001	0.0000	4.98427	3.82205	321.625
MBB6A27	339	7.9192	-0.5829	23.7718	2.4941	0.0426	-0.1520	-0.0001	0.0000	5.03011	3.83313	323.626
D723	340	13.1424	-1.1061	11.2505	1.5548	-0.4273	-0.1520	-0.0001	0.0000	5.07912	3.86341	326.718
MBB6A28	341	18.1692	-1.4069	6.1984	0.9617	-0.6317	-0.0526	0.0000	0.0000	5.09974	3.90195	328.719
D724	342	24.4207	-1.7333	3.6001	0.3435	-0.7364	-0.0526	0.0000	0.0000	5.11480	3.97118	330.710
IPM6A29	343	24.4207	-1.7333	3.6001	0.3435	-0.7364	-0.0526	0.0000	0.0000	5.11480	3.97118	330.710
D703	344	25.										

MQA6A32	365	2.6095	0.4294	51.5086	3.6992	1.1278	-0.1953	0.0001	0.0000	5.46157	4.20109	351.030
D725	366	2.3440	0.2527	48.6721	3.5882	1.0517	-0.1953	0.0001	0.0000	5.48672	4.20233	351.420
MBC6A32V	367	2.3440	0.2527	48.6721	3.5882	1.0517	-0.1953	0.0001	0.0000	5.48672	4.20233	351.420
D733	368	2.9347	-0.5762	36.5171	3.0676	0.6950	-0.1953	0.0001	0.0000	5.60931	4.20922	353.246
MBB6A31	369	7.0267	-1.4695	25.2124	2.5633	0.4017	-0.0982	0.0001	0.0000	5.68175	4.21973	355.247
D723	370	20.4157	-2.8600	12.2298	1.6347	0.0981	-0.0982	0.0001	0.0000	5.72331	4.24791	358.339
MBB6A32	371	33.5180	-3.6900	6.8393	1.0504	0.0000	0.0000	0.0000	0.0000	5.73547	4.28304	360.340
D724	372	49.9383	-4.5581	3.8760	0.4381	0.0000	0.0000	0.0000	0.0000	5.74322	4.34622	362.331
IPM6R01	373	49.9383	-4.5581	3.8760	0.4381	0.0000	0.0000	0.0000	0.0000	5.74322	4.34622	362.331
D703	374	52.0083	-4.6561	3.6946	0.3691	0.0000	0.0000	0.0000	0.0000	5.74392	4.35668	362.555
MQA6R01	375	49.2548	13.5032	3.8970	-1.0674	0.0000	0.0000	0.0000	0.0000	5.74484	4.36850	362.855
D704	376	44.1774	12.7843	4.3298	-1.1734	0.0000	0.0000	0.0000	0.0000	5.74550	4.37599	363.048
MBC6R01H	377	44.1774	12.7843	4.3298	-1.1734	0.0000	0.0000	0.0000	0.0000	5.74550	4.37599	363.048
D734	378	28.0718	10.1730	6.2464	-1.5586	0.0000	0.0000	0.0000	0.0000	5.74867	4.39752	363.750
ITV6R01	379	28.0718	10.1730	6.2464	-1.5586	0.0000	0.0000	0.0000	0.0000	5.74867	4.39752	363.750
D737	380	3.6449	3.5450	13.5377	-2.5361	0.0000	0.0000	0.0000	0.0000	5.77684	4.42854	365.531
IPM6R02	381	3.6449	3.5450	13.5377	-2.5361	0.0000	0.0000	0.0000	0.0000	5.77684	4.42854	365.531
D703	382	2.2400	2.7088	14.7049	-2.6595	0.0000	0.0000	0.0000	0.0000	5.78936	4.43107	365.755
MQA6R02	383	1.0877	1.2645	14.7614	2.4777	0.0000	0.0000	0.0000	0.0000	5.82069	4.43426	366.055
D704	384	0.6884	0.8030	13.8223	2.3843	0.0000	0.0000	0.0000	0.0000	5.85652	4.43641	366.248
MBC6R02H	385	0.6884	0.8030	13.8223	2.3843	0.0000	0.0000	0.0000	0.0000	5.85652	4.43641	366.248
D705	386	0.4653	0.3344	12.9058	2.2895	0.0000	0.0000	0.0000	0.0000	5.91283	4.43874	366.445
MBC6R02V	387	0.4653	0.3344	12.9058	2.2895	0.0000	0.0000	0.0000	0.0000	5.91283	4.43874	366.445
D716	388	11.4238	-5.1279	4.9655	1.1838	0.0000	0.0000	0.0000	0.0000	6.18354	4.48484	368.731
IPM6R03	389	11.4238	-5.1279	4.9655	1.1838	0.0000	0.0000	0.0000	0.0000	6.18354	4.48484	368.731
D703	390	13.8483	-5.6647	4.4580	1.0752	0.0000	0.0000	0.0000	0.0000	6.18638	4.49244	368.955
MQA6R03	391	15.7415	-0.4127	4.3185	-0.5934	0.0000	0.0000	0.0000	0.0000	6.18956	4.50353	369.255
D704	392	15.9038	-0.4271	4.5594	-0.6538	0.0000	0.0000	0.0000	0.0000	6.19150	4.51046	369.448
MBC6R03H	393	15.9038	-0.4271	4.5594	-0.6538	0.0000	0.0000	0.0000	0.0000	6.19150	4.51046	369.448
D738	394	18.4822	-0.6117	9.7344	-1.4310	0.0000	0.0000	0.0000	0.0000	6.21462	4.57123	371.931
IPM6R04	395	18.4822	-0.6117	9.7344	-1.4310	0.0000	0.0000	0.0000	0.0000	6.21462	4.57123	371.931
D703	396	18.7607	-0.6284	10.3931	-1.5013	0.0000	0.0000	0.0000	0.0000	6.21654	4.57478	372.155
MQA6R04	397	22.7634	-13.5023	9.4609	4.4208	0.0000	0.0000	0.0000	0.0000	6.21893	4.57945	372.455
D704	398	28.2798	-15.0578	7.8341	4.0014	0.0000	0.0000	0.0000	0.0000	6.22014	4.58302	372.648
MBC6R04H	399	28.2798	-15.0578	7.8341	4.0014	0.0000	0.0000	0.0000	0.0000	6.22014	4.58302	372.648
D705	400	34.4948	-16.6369	6.3483	3.5756	0.0000	0.0000	0.0000	0.0000	6.22114	4.58745	372.845
MBC6R04V	401	34.4948	-16.6369	6.3483	3.5756	0.0000	0.0000	0.0000	0.0000	6.22114	4.58745	372.845
D739	402	168.8026	-36.8560	2.0818	-1.8763	0.0000	0.0000	0.0000	0.0000	6.22637	4.96611	375.355
MQA6R05	403	168.8530	36.6953	3.7921	-4.0683	0.0000	0.0000	0.0000	0.0000	6.22665	4.98351	375.655
D712	404	109.5788	29.5551	14.7769	-8.2093	0.0000	0.0000	0.0000	0.0000	6.22770	5.00258	376.550
ITV6R05	405	109.5788	29.5551	14.7769	-8.2093	0.0000	0.0000	0.0000	0.0000	6.22770	5.00258	376.550
D713	406	99.1610	28.1134	17.8940	-9.0454	0.0000	0.0000	0.0000	0.0000	6.22797	5.00435	376.731
IPM6R06	407	99.1610	28.1134	17.8940	-9.0454	0.0000	0.0000	0.0000	0.0000	6.22797	5.00435	376.731
D703	408	86.9324	26.3205	22.1917	-10.0852	0.0000	0.0000	0.0000	0.0000	6.22836	5.00614	376.955
MQA6R06	409	72.4909	21.9497	28.4429	-10.6951	0.0000	0.0000	0.0000	0.0000	6.22896	5.00804	377.255
D704	410	64.2602	20.6633	32.7257	-11.4786	0.0000	0.0000	0.0000	0.0000	6.22941	5.00905	377.448
MBC6R06H	411	64.2602	20.6633	32.7257	-11.4786	0.0000	0.0000	0.0000	0.0000	6.22941	5.00905	377.448
D740	412	26.6770	13.2917	63.1059	-15.9688	0.0000	0.0000	0.0000	0.0000	6.23367	5.01292	378.555
MQA6R07	413	21.4821	4.5847	66.4663	5.1344	0.0000	0.0000	0.0000	0.0000	6.23569	5.01365	378.855
D725	414	18.0683	4.1857	62.5316	4.9742	0.0000	0.0000	0.0000	0.0000	6.23884	5.01461	379.245
MBC6R07V	415	18.0683	4.1857	62.5316	4.9742	0.0000	0.0000	0.0000	0.0000	6.23884	5.01461	379.245
D741	416	13.2413	3.5458	56.4810	4.7172	0.0000	0.0000	0.0000	0.0000	6.24526	5.01628	379.869
MAB6R01	417	7.1858	2.5084	47.1846	4.5667	0.0000	0.0000	-0.0314	-0.0628	6.26163	5.01936	380.869
D742B	418	2.7204	-1.3269	19.2819	2.8162	0.0000	0.0000	-0.2686	-0.0628	6.59846	5.03936	384.648
MAB6R03	419	6.3955	-2.3460	14.0456	2.4150	0.0000	0.0000	-0.2993	0.0013	6.63703	5.04902	385.649
D743B	420	11.1600	-3.2170	10.2658	1.9984	0.0000	0.0000	-0.2982	0.0013	6.65319	5.06038	386.505
IPM6R08	421	11.1600	-3.2170	10.2658	1.9984	0.0000	0.0000	-0.2982	0.0013	6.65319	5.06038	386.505
D703	422	12.6567	-3.4455	9.3924	1.8891	0.0000	0.0000	-0.2979	0.0013	6.65620	5.06402	386.730
MQA6R08	423	16.9849	-11.6829	7.0928	5.3966	0.0000	0.0000	-0.2758	0.1438	6.65954	5.06973	387.030
D704	424	21.8000	-13.2464	5.1666	4.5763	0.0000	0.0000	-0.2480	0.1438	6.66114	5.07481	387.223
MBC6R08H	425	21.8000	-13.2464	5.1666	4.5763	0.0000	0.0000	-0.2480	0.1438	6.66114	5.07481	387.223
D705	426	27.3062	-14.8337	3.5351	3.7435	0.0000	0.0000	-0.2198	0.1438	6.66241	5.08212	387.419
MBC6R08V	427	27.3062	-14.8337	3.5351	3.7435	0.0000	0.0000	-0.2198	0.1438	6.66241	5.08212	387.419
D708	428	72.4245	-24.1922	0.5559	-1.1665	0.0000	0.0000	-0.0536	0.1438	6.66655	5.42778	388.575
IPM6R09	429	72.4245	-24.1922	0.5559	-1.1665	0.0000	0.0000	-0.0536	0.1438	6.66655	5.42778	388.575
D703	430	83.7025	-26.0107	1.2943	-2.1206	0.0000	0.0000	-0.0213	0.1438	6.66701	5.47044	388.800
MQA6R09	431	89.8651	6.2397	3.2103	-4.5022	0.0000	0.0000	0.0215	0.1439	6.66755	5.49439	389.100
D704	432	87.4713	6.1538	5.1967	-5.7820	0.0000	0.0000	0.0493	0.1439	6.66790	5.50192	389.293
MBC6R09H	433	87.4713	6.1538	5.1967	-5.7820	0.0000	0.0000	0.0493	0.1439	6.66790	5.50192	389.293
D744	434	44.3742	4.3265	164.7898	-33.0277	0.0000	0.0000	0.6409	0.1439	6.67841	5.52436	393.405
IPM6R10	435	44.3742	4.3265	164.7898	-33.0277	0.0000	0.0000	0.6409	0.1439	6.67841	5.52436	393.405
D703	436	42.4527	4.2267	179.9635	-34.5161	0.0000	0.0000	0.6732	0.1439	6.67923	5.52457	393.630
MQA6R10	437	42.4599	-4.2512	189.8267	2.3006	0.0000	0.0000	0.6958	0.0059	6.68037	5.52482	393.930
D704	438	44.1189	-4.3380	188.9392	2.2942	0.0000	0.0000	0.6969	0.0059	6.68108	5.52499	394.123
MBC6R10H	439	44.1189	-4.3380	188.9392	2.2942	0.0000	0.0000	0.6969	0.0059	6.68108	5.52499	394.123
D705	440	45.8374	-4.4260	188.0408	2.2877	0.0000	0.0000	0.6981	0.0059	6.68178	5.52515	394.319
MBC6R10V	441	45.8374	-4.4260	188.0408	2.2877	0.0000	0.0000	0.6981	0.0059	6.68178	5.52515	394.319
D745	442	51.5660	-4.7078	185.1842	2.2669	0.0000	0.0000	0.7018	0.0059	6.68383	5.52569	394.946
MAU6R04	443	72.7887	-5.9018	172.3529	4.1128	0.0000	0.0000	0.5879	-0.1198	6.68905	5.52746	396.947
D746	444	109.3987	-7.2700	150.2935	3.8239	0.0000	0.0000	0.2550	-0.1198	6.69400	5.53021	399.727
MAX6R05	445	123.1694	-6.7130	144.0024	2.8841	0.0000	0.0000	0.1627	-0.0650	6.69538	5.53129	400.731
D747	446	151.5803	-7.4626	132.7014	2.7545	0.0000	0.0000	0.0324	-0.0650	6.69772	5.53360	402.735
MAW6R06	447	164.1695	-5.7191	128.9469	1.5612	0.0000	0.0000	0.0000	0.			

FIRST ORDER MATRIX

```
-0.3468212E+01 -0.7154567E+02 0.5147959E-14 0.2647103E-13 0.0000000E+00 -0.3393443E-06
-0.1138948E+00 -0.2637866E+01 0.5349248E-15 0.3542425E-14 0.0000000E+00 -0.4783101E-08
-0.5365166E-15 0.4890750E-14 -0.1727500E+01 -0.1304439E+02 0.0000000E+00 -0.8610317E-05
-0.7229434E-15 0.1418779E-13 0.3731929E-01 -0.2970725E+00 0.0000000E+00 0.1018432E-05
-0.2206073E-07 -0.5529345E-06 -0.1438011E-05 -0.1584272E-04 0.1000000E+01 -0.1177037E-02
-0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.1000000E+01
```

HORIZONTAL MOVEMENT ANALYSIS

COMPACTION FACTOR = -0.2915363E-05 GAMMA TR = -0.5856709E+03

MOVEMENT IS UNSTABLE

```
HALF-TRACE = -0.30530388822512E+01
EIGENVALUE1 = -0.16841647775219E+00
WITH EIGENVECTOR :
X = 0.99893809613431E+00 XP = -0.46072552474922E-01
EIGENVALUE2 = -0.59376612867503E+01
WITH EIGENVECTOR :
X = 0.99940486479730E+00 XP = 0.34495162262255E-01
```

VERTICAL MOVEMENT ANALYSIS

MOVEMENT IS UNSTABLE

```
HALF-TRACE = -0.10122861190220E+01
EIGENVALUE1 = -0.85505003294584E+00
WITH EIGENVECTOR :
Y = 0.99777079909528E+00 YP = -0.66734042832434E-01
EIGENVALUE2 = -0.11695222050981E+01
WITH EIGENVECTOR :
Y = 0.99908639090771E+00 YP = -0.42736208336858E-01
```

1
OPERATION LIST ,

HARDWARE

6.66249 3524.31 -80.6 100 -91.5251 -180 0.0 0 1 0;

VALUES ARE FOR ENERGY : 0.666E+01 GEV

THE LENGTHS ARE MEASURED IN METERS ,THE ANGLES IN DEGREES

THE XYZ COORDINATES,AZIMUTH,ELEVATION AND ROLL ANGLES ARE :

#	NAME	S	X	Y	Z	THETA	PHI	PSI
1	MAW6S01	3525.3107000000	-80.6000000000	100.0324203520	-92.5250994274	180.0000000000	3.7138000000	0.0000000000
2	D700	3527.3149100000	-80.6000000000	100.1622383644	-94.5251006793	180.0000000000	3.7138000000	0.0000000000
3	MAX6S02	3528.3192300000	-80.6000000000	100.2540154416	-95.5250986367	180.0000000000	6.7737200000	0.0000000000
4	D701	3531.0986400000	-80.6000000000	100.5818427094	-98.2851075552	180.0000000000	6.7737200000	0.0000000000
5	MAU6S03	3533.0998000000	-80.6000000000	100.6999972806	-100.2816091607	180.0000000000	0.0000000000	0.0000000000
6	D702	3533.6895150000	-80.6000000000	100.6999972806	-100.8713241607	180.0000000000	0.0000000000	0.0000000000
7	IPM6S01	3533.6895150000	-80.6000000000	100.6999972806	-100.8713241607	180.0000000000	0.0000000000	0.0000000000
8	D703	3533.9141650000	-80.6000000000	100.6999972806	-101.0959741607	180.0000000000	0.0000000000	0.0000000000
9	MQA6S01	3534.2141650000	-80.6000000000	100.6999972806	-101.3959741607	180.0000000000	0.0000000000	0.0000000000
10	D704	3534.4073150000	-80.6000000000	100.6999972806	-101.5891241607	180.0000000000	0.0000000000	0.0000000000
11	MBC6S01H	3534.4073150100	-80.6000000000	100.6999972806	-101.5891241707	180.0000000000	0.0000000000	0.0000000000
12	D705	3534.6034050100	-80.6000000000	100.6999972806	-101.7852141707	180.0000000000	0.0000000000	0.0000000000
13	MBC6S01V	3534.6034050200	-80.6000000000	100.6999972806	-101.7852141807	180.0000000000	0.0000000000	0.0000000000
14	D706	3535.1088650200	-80.6000000000	100.6999972806	-102.2906741807	180.0000000000	0.0000000000	0.0000000000
15	ITV6S01	3535.1088650200	-80.6000000000	100.6999972806	-102.2906741807	180.0000000000	0.0000000000	0.0000000000
16	D707	3538.5195150200	-80.6000000000	100.6999972806	-105.7013241807	180.0000000000	0.0000000000	0.0000000000
17	IPM6S02	3538.5195150200	-80.6000000000	100.6999972806	-105.7013241807	180.0000000000	0.0000000000	0.0000000000
18	D703	3538.7441650200	-80.6000000000	100.6999972806	-105.9259741807	180.0000000000	0.0000000000	0.0000000000
19	MQA6S02	3539.0441650200	-80.6000000000	100.6999972806	-106.2259741807	180.0000000000	0.0000000000	0.0000000000
20	D704	3539.2373150200	-80.6000000000	100.6999972806	-106.4191241807	180.0000000000	0.0000000000	0.0000000000
21	MBC6S02H	3539.2373150300	-80.6000000000	100.6999972806	-106.4191241907	180.0000000000	0.0000000000	0.0000000000
22	D705	3539.4334050300	-80.6000000000	100.6999972806	-106.6152141907	180.0000000000	0.0000000000	0.0000000000
23	MBC6S02V	3539.4334050400	-80.6000000000	100.6999972806	-106.6152142007	180.0000000000	0.0000000000	0.0000000000
24	D708	3540.5895150400	-80.6000000000	100.6999972806	-107.7713242007	180.0000000000	0.0000000000	0.0000000000
25	IPM6S03	3540.5895150400	-80.6000000000	100.6999972806	-107.7713242007	180.0000000000	0.0000000000	0.0000000000
26	D703	3540.8141650400	-80.6000000000	100.6999972806	-107.9959742007	180.0000000000	0.0000000000	0.0000000000
27	MQA6S03	3541.1141650400	-80.6000000000	100.6999972806	-108.2959742007	180.0000000000	0.0000000000	0.0000000000
28	D704	3541.3073150400	-80.6000000000	100.6999972806	-108.4891242007	180.0000000000	0.0000000000	0.0000000000
29	MBC6S03H	3541.3073150500	-80.6000000000	100.6999972806	-108.4891242107	180.0000000000	0.0000000000	0.0000000000
30	D709A	3542.3472650500	-80.6000000000	100.6999972806	-109.5290742107	180.0000000000	0.0000000000	0.0000000000
31	MAB6S04	3543.3474250500	-80.6000000000	100.7310689701	-110.5285903903	180.0000000000	3.5611300000	0.0000000000
32	D710A	3547.1769050500	-80.6000000000	100.9689249133	-114.3505762268	180.0000000000	3.5611300000	0.0000000000
33	MAB6S06	3548.1769650500	-80.6000000000	100.9999966028	-115.3500924064	180.0000000000	0.0000000000	0.0000000000
34	D711	3550.0905350500	-80.6000000000	100.9999966028	-117.2636624064	180.0000000000	0.0000000000	0.0000000000
35	MQA6S04	3550.3905350500	-80.6000000000	100.9999966028	-117.5636624064	180.0000000000	0.0000000000	0.0000000000
36	D712	3551.2852350500	-80.6000000000	100.9999966028	-118.4583624064	180.0000000000	0.0000000000	0.0000000000
37	ITV6S04	3551.2852350500	-80.6000000000	100.9999966028	-118.4583624064	180.0000000000	0.0000000000	0.0000000000
38	D713	3551.4658850500	-80.6000000000	100.9999966028	-118.6390124064	180.0000000000	0.0000000000	0.0000000000
39	IPM6S05	3551.4658850500	-80.6000000000	100.9999966028	-118.6390124064	180.0000000000	0.0000000000	0.0000000000
40	D703	3551.6905350500	-80.6000000000	100.9999966028	-118.8636624064	180.0000000000	0.0000000000	0.0000000000
41	MQA6S05	3551.9905350500	-80.6000000000	100.9999966028	-119.1636624064	180.0000000000	0.0000000000	0.0000000000
42	D704	3552.1836850500	-80.6000000000	100.9999966028	-119.3568124064	180.0000000000	0.0000000000	0.0000000000
43	MBC6S05H	3552.1836850600	-80.6000000000	100.9999966028	-119.3568124164	180.0000000000	0.0000000000	0.0000000000
44	D705	3552.3797750600	-80.6000000000	100.9999966028	-119.5529024164	180.0000000000	0.0000000000	0.0000000000

45	MBC6S05V	3552.3797750700	-80.6000000000	100.9999966028	-119.5529024264	180.0000000000	0.0000000000	0.0000000000
46	D714	3553.2905350700	-80.6000000000	100.9999966028	-120.4636624264	180.0000000000	0.0000000000	0.0000000000
47	MQA6S06	3553.5905350700	-80.6000000000	100.9999966028	-120.7636624264	180.0000000000	0.0000000000	0.0000000000
48	D715	3557.8658850700	-80.6000000000	100.9999966028	-125.0390124264	180.0000000000	0.0000000000	0.0000000000
49	IPM6S07	3557.8658850700	-80.6000000000	100.9999966028	-125.0390124264	180.0000000000	0.0000000000	0.0000000000
50	D703	3558.0905350700	-80.6000000000	100.9999966028	-125.2636624264	180.0000000000	0.0000000000	0.0000000000
51	MQA6S07	3558.3905350700	-80.6000000000	100.9999966028	-125.5636624264	180.0000000000	0.0000000000	0.0000000000
52	D704	3558.5836850700	-80.6000000000	100.9999966028	-125.7568124264	180.0000000000	0.0000000000	0.0000000000
53	MBC6S07H	3558.5836850800	-80.6000000000	100.9999966028	-125.7568124364	180.0000000000	0.0000000000	0.0000000000
54	D705	3558.7797750800	-80.6000000000	100.9999966028	-125.9529024364	180.0000000000	0.0000000000	0.0000000000
55	MBC6S07V	3558.7797750900	-80.6000000000	100.9999966028	-125.9529024464	180.0000000000	0.0000000000	0.0000000000
56	D716	3561.0658850900	-80.6000000000	100.9999966028	-128.2390124464	180.0000000000	0.0000000000	0.0000000000
57	IPM6S08	3561.0658850900	-80.6000000000	100.9999966028	-128.2390124464	180.0000000000	0.0000000000	0.0000000000
58	D703	3561.2905350900	-80.6000000000	100.9999966028	-128.4636624464	180.0000000000	0.0000000000	0.0000000000
59	MQA6S08	3561.5905350900	-80.6000000000	100.9999966028	-128.7636624464	180.0000000000	0.0000000000	0.0000000000
60	D704	3561.7836850900	-80.6000000000	100.9999966028	-128.9568124464	180.0000000000	0.0000000000	0.0000000000
61	MBC6S08H	3561.7836851000	-80.6000000000	100.9999966028	-128.9568124564	180.0000000000	0.0000000000	0.0000000000
62	D705	3561.9797751000	-80.6000000000	100.9999966028	-129.1529024564	180.0000000000	0.0000000000	0.0000000000
63	MBC6S08V	3561.9797751100	-80.6000000000	100.9999966028	-129.1529024664	180.0000000000	0.0000000000	0.0000000000
64	D716	3564.2658851100	-80.6000000000	100.9999966028	-131.4390124664	180.0000000000	0.0000000000	0.0000000000
65	IPM6S09	3564.2658851100	-80.6000000000	100.9999966028	-131.4390124664	180.0000000000	0.0000000000	0.0000000000
66	D703	3564.4905351100	-80.6000000000	100.9999966028	-131.6636624664	180.0000000000	0.0000000000	0.0000000000
67	MQA6S09	3564.7905351100	-80.6000000000	100.9999966028	-131.9636624664	180.0000000000	0.0000000000	0.0000000000
68	D704	3564.9836851100	-80.6000000000	100.9999966028	-132.1568124664	180.0000000000	0.0000000000	0.0000000000
69	MBC6S09H	3564.9836851200	-80.6000000000	100.9999966028	-132.1568124764	180.0000000000	0.0000000000	0.0000000000
70	D705	3565.1797751200	-80.6000000000	100.9999966028	-132.3529024764	180.0000000000	0.0000000000	0.0000000000
71	MBC6S09V	3565.1797751300	-80.6000000000	100.9999966028	-132.3529024864	180.0000000000	0.0000000000	0.0000000000
72	D716	3567.4658851300	-80.6000000000	100.9999966028	-134.6390124864	180.0000000000	0.0000000000	0.0000000000
73	IPM6S10	3567.4658851300	-80.6000000000	100.9999966028	-134.6390124864	180.0000000000	0.0000000000	0.0000000000
74	D703	3567.6905351300	-80.6000000000	100.9999966028	-134.8636624864	180.0000000000	0.0000000000	0.0000000000
75	MQA6S10	3567.9905351300	-80.6000000000	100.9999966028	-135.1636624864	180.0000000000	0.0000000000	0.0000000000
76	D704	3568.1836851300	-80.6000000000	100.9999966028	-135.3568124864	180.0000000000	0.0000000000	0.0000000000
77	MBC6S10H	3568.1836851400	-80.6000000000	100.9999966028	-135.3568124964	180.0000000000	0.0000000000	0.0000000000
78	D705	3568.3797751400	-80.6000000000	100.9999966028	-135.5529024964	180.0000000000	0.0000000000	0.0000000000
79	MBC6S10V	3568.3797751500	-80.6000000000	100.9999966028	-135.5529025064	180.0000000000	0.0000000000	0.0000000000
80	D706	3568.8852351500	-80.6000000000	100.9999966028	-136.0583625064	180.0000000000	0.0000000000	0.0000000000
81	MAT6S10H	3568.8852351600	-80.6000000000	100.9999966028	-136.0583625164	180.0000000000	0.0000000000	0.0000000000
82	D717	3584.0159351600	-80.6000000000	100.9999966028	-151.1890625164	180.0000000000	0.0000000000	0.0000000000
83	IPM6E01	3584.0159351600	-80.6000000000	100.9999966028	-151.1890625164	180.0000000000	0.0000000000	0.0000000000
84	D703	3584.2405851600	-80.6000000000	100.9999966028	-151.4137125164	180.0000000000	0.0000000000	0.0000000000
85	MQC6E01	3584.5405851600	-80.6000000000	100.9999966028	-151.7137125164	180.0000000000	0.0000000000	0.0000000000
86	D704	3584.7337351600	-80.6000000000	100.9999966028	-151.9068625164	180.0000000000	0.0000000000	0.0000000000
87	MBM6E01H	3584.7337351700	-80.6000000000	100.9999966028	-151.9068625264	180.0000000000	0.0000000000	0.0000000000
88	D705	3584.9298251700	-80.6000000000	100.9999966028	-152.1029525264	180.0000000000	0.0000000000	0.0000000000
89	MBM6E01V	3584.9298251800	-80.6000000000	100.9999966028	-152.1029525364	180.0000000000	0.0000000000	0.0000000000
90	D706	3585.4352851800	-80.6000000000	100.9999966028	-152.6084125364	180.0000000000	0.0000000000	0.0000000000
91	IHA6E01	3585.4352851800	-80.6000000000	100.9999966028	-152.6084125364	180.0000000000	0.0000000000	0.0000000000
92	D718	3585.6655751800	-80.6000000000	100.9999966028	-152.8387025364	180.0000000000	0.0000000000	0.0000000000
93	MBY6E01	3586.6658651800	-80.6210000990	100.9999966028	-153.8386985584	-177.5939100000	0.0000000000	0.0000000000
94	D719	3591.6702851800	-80.8310949128	100.9999966028	-158.8387065289	-177.5939100000	0.0000000000	0.0000000000
95	MBZ6E02	3593.6708751800	-80.8310949128	100.9999966028	-160.8387085700	177.5939100000	0.0000000000	0.0000000000
96	D719	3598.6752951800	-80.6210000990	100.9999966028	-165.8387165405	177.5939100000	0.0000000000	0.0000000000
97	MBY6E03	3599.6755851800	-80.6000000000	100.9999966028	-166.8387125625	180.0000000000	0.0000000000	0.0000000000
98	D720	3600.5759311800	-80.6000000000	100.9999966028	-167.7390585625	180.0000000000	0.0000000000	0.0000000000
99	IPM6E02	3600.5759311800	-80.6000000000	100.9999966028	-167.7390585625	180.0000000000	0.0000000000	0.0000000000
100	D703	3600.8005811800	-80.6000000000	100.9999966028	-167.9637085625	180.0000000000	0.0000000000	0.0000000000
101	MQC6E02	3601.1005811800	-80.6000000000	100.9999966028	-168.2637085625	180.0000000000	0.0000000000	0.0000000000
102	D704	3601.2937311800	-80.6000000000	100.9999966028	-168.4568585625	180.0000000000	0.0000000000	0.0000000000
103	MBM6E02H	3601.2937311900	-80.6000000000	100.9999966028	-168.4568585725	180.0000000000	0.0000000000	0.0000000000
104	D705	3601.4898211900	-80.6000000000	100.9999966028	-168.6529485725	180.0000000000	0.0000000000	0.0000000000
105	MBM6E02V	3601.4898212000	-80.6000000000	100.9999966028	-168.6529485825	180.0000000000	0.0000000000	0.0000000000
106	D706	3601.9952812000	-80.6000000000	100.9999966028	-169.1584085825	180.0000000000	0.0000000000	0.0000000000
107	ITV6E02	3601.9952812000	-80.6000000000	100.9999966028	-169.1584085825	180.0000000000	0.0000000000	0.0000000000
108	D717	3617.1259812000	-80.6000000000	100.9999966028	-184.2891085825	180.0000000000	0.0000000000	0.0000000000
109	IPM6E03	3617.1259812000	-80.6000000000	100.9999966028	-184.2891085825	180.0000000000	0.0000000000	0.0000000000
110	D703	3617.3506312000	-80.6000000000	100.9999966028	-184.5137585825	180.0000000000	0.0000000000	0.0000000000
111	MQC6E03	3617.6506312000	-80.6000000000	100.9999966028	-184.8137585825	180.0000000000	0.0000000000	0.0000000000
112	D704	3617.8437812000	-80.6000000000	100.9999966028	-185.0069085825	180.0000000000	0.0000000000	0.0000000000
113	MBM6E03H	3617.8437812100	-80.6000000000	100.9999966028	-185.0069085925	180.0000000000	0.0000000000	0.0000000000
114	D705	3618.0398712100	-80.6000000000	100.9999966028	-185.2029985925	180.0000000000	0.0000000000	0.0000000000
115	MBM6E03V	3618.0398712200	-80.6000000000	100.9999966028	-185.2029986025	180.0000000000	0.0000000000	0.0000000000
116	D721	3633.6759712200	-80.6000000000	100.9999966028	-200.8390986025	180.0000000000	0.0000000000	0.0000000000
117	IPM6A01	3633.6759712200	-80.6000000000	100.9999966028	-200.8390986025	180.0000000000	0.0000000000	0.0000000000
118	D703	3633.9006212200	-80.6000000000	100.9999966028	-201.0637486025	180.0000000000	0.0000000000	0.0000000000
119	MQA6A01	3634.2006212200	-80.6000000000	100.9999966028	-201.3637486025	180.0000000000	0.0000000000	0.0000000000
120	D704	3634.3937712200	-80.6000000000	100.9999966028	-201.5568986025	180.0000000000	0.0000000000	0.0000000000
121	MBC6A01H	3634.3937712300	-80.6000000000	100.9999966028	-201.5568986125	180.0000000000	0.0000000000	0.0000000000
122	D705	3634.5898612300	-80.6000000000	100.9999966028	-201.7529886125	180.0000000000	0.0000000000	0.0000000000
123	MBC6A01V	3634.5898612400	-80.6000000000	100.9999966028	-201.7529886225	180.0000000000	0.0000000000	0.0000000000
124	D706	3635.0953212400	-80.6000000000	100.9999966028	-202.2584486225	180.0000000000	0.0000000000	0.0000000000
125	ITV6A01	3635.0953212400	-80.6000000000	100.9999966028	-202.2584486225	180.0000000000	0.0000000000	0.0000000000
126	D722	3636.4160612400	-80.6000000000	100.99				

149	MBC6A04V	3654.3854412700	-77.7836304043	100.9999966028	-221.2990501355	168.7500200000	0.0000000000	0.0000000000
150	D729	3656.2116512700	-77.4273551326	100.9999966028	-223.0901701468	168.7500200000	0.0000000000	0.0000000000
151	MBB6A03	3658.2124512700	-76.9413964484	100.9999966028	-225.0302295554	163.1250300000	0.0000000000	0.0000000000
152	D723	3661.3049612700	-76.0436897306	100.9999966028	-227.9895775831	163.1250300000	0.0000000000	0.0000000000
153	MBB6A04	3663.3057612700	-75.3699123236	100.9999966028	-229.8726629124	157.5000400000	0.0000000000	0.0000000000
154	D724	3665.2965512700	-74.6080712574	100.9999966028	-231.7119135788	157.5000400000	0.0000000000	0.0000000000
155	IPM6A05	3665.2965512700	-74.6080712574	100.9999966028	-231.7119135788	157.5000400000	0.0000000000	0.0000000000
156	D703	3665.5212012700	-74.5221015692	100.9999966028	-231.9194631758	157.5000400000	0.0000000000	0.0000000000
157	MQA6A05	3665.8212012700	-74.4072967330	100.9999966028	-232.1966271157	157.5000400000	0.0000000000	0.0000000000
158	D704	3666.0143512700	-74.3333815526	100.9999966028	-232.3750744990	157.5000400000	0.0000000000	0.0000000000
159	MBC6A05H	3666.0143512800	-74.3333815488	100.9999966028	-232.3750745083	157.5000400000	0.0000000000	0.0000000000
160	D730	3668.0366412800	-73.5594859747	100.9999966028	-234.2342738884	157.5000400000	0.0000000000	0.0000000000
161	MBB6A05	3670.0374412800	-72.7043786667	100.9999966028	-236.0514035617	151.8750500000	0.0000000000	0.0000000000
162	D723	3673.1299512800	-71.2465819241	100.9999966028	-238.7787551631	151.8750500000	0.0000000000	0.0000000000
163	MBB6A06	3675.1307512800	-70.2183798366	100.9999966028	-240.4942104435	146.2500600000	0.0000000000	0.0000000000
164	D724	3677.1215412800	-69.1123579058	100.9999966028	-242.1494929912	146.2500600000	0.0000000000	0.0000000000
165	IPM6A06	3677.1215412800	-69.1123579058	100.9999966028	-242.1494929912	146.2500600000	0.0000000000	0.0000000000
166	D703	3677.3461912800	-68.9875492486	100.9999966028	-242.3362827703	146.2500600000	0.0000000000	0.0000000000
167	MQA6A06	3677.6461912800	-68.8208784399	100.9999966028	-242.5857238285	146.2500600000	0.0000000000	0.0000000000
168	D725	3678.0354312800	-68.6046286213	100.9999966028	-242.9093652868	146.2500600000	0.0000000000	0.0000000000
169	MBC6A06V	3678.0354312900	-68.6046286157	100.9999966028	-242.9093652952	146.2500600000	0.0000000000	0.0000000000
170	D731	3681.1068412900	-66.8982473207	100.9999966028	-245.4631511640	146.2500600000	0.0000000000	0.0000000000
171	IPM6A07	3681.1068412900	-66.8982473207	100.9999966028	-245.4631511640	146.2500600000	0.0000000000	0.0000000000
172	D703	3681.3314912900	-66.7734386634	100.9999966028	-245.6499409431	146.2500600000	0.0000000000	0.0000000000
173	MQA6A07	3681.6314912900	-66.6067678547	100.9999966028	-245.8993820013	146.2500600000	0.0000000000	0.0000000000
174	D704	3681.8246412900	-66.4994596324	100.9999966028	-246.0599804693	146.2500600000	0.0000000000	0.0000000000
175	MBC6A07H	3681.8246413000	-66.4994596268	100.9999966028	-246.0599804776	146.2500600000	0.0000000000	0.0000000000
176	D732	3685.0921413000	-64.6841367355	100.9999966028	-248.7768093368	146.2500600000	0.0000000000	0.0000000000
177	IPM6A08	3685.0921413000	-64.6841367355	100.9999966028	-248.7768093368	146.2500600000	0.0000000000	0.0000000000
178	D703	3685.3167913000	-64.5593280783	100.9999966028	-248.9635991159	146.2500600000	0.0000000000	0.0000000000
179	MQA6A08	3685.6167913000	-64.3926572696	100.9999966028	-249.2130401742	146.2500600000	0.0000000000	0.0000000000
180	D725	3686.0060313000	-64.1764074510	100.9999966028	-249.5366816325	146.2500600000	0.0000000000	0.0000000000
181	MBC6A08V	3686.0060313100	-64.1764074454	100.9999966028	-249.5366816408	146.2500600000	0.0000000000	0.0000000000
182	D733	3687.8322313100	-63.1618266760	100.9999966028	-251.0551125093	146.2500600000	0.0000000000	0.0000000000
183	MBB6A07	3689.8330313100	-61.9704319220	100.9999966028	-252.6615261832	140.6250700000	0.0000000000	0.0000000000
184	D723	3692.9255413100	-60.0085672674	100.9999966028	-255.0520711372	140.6250700000	0.0000000000	0.0000000000
185	MBB6A08	3694.9263413100	-58.6654535889	100.9999966028	-256.5339726179	135.0000800000	0.0000000000	0.0000000000
186	D724	3696.9171313100	-57.2577544455	100.9999966028	-257.9416756923	135.0000800000	0.0000000000	0.0000000000
187	IPM6A09	3696.9171313100	-57.2577544455	100.9999966028	-257.9416756923	135.0000800000	0.0000000000	0.0000000000
188	D703	3697.1417813100	-57.0989031289	100.9999966028	-258.1005274525	135.0000800000	0.0000000000	0.0000000000
189	MQA6A09	3697.4417813100	-56.8867713908	100.9999966028	-258.3126597831	135.0000800000	0.0000000000	0.0000000000
190	D704	3697.6349313100	-56.7501939067	100.9999966028	-258.4492376486	135.0000800000	0.0000000000	0.0000000000
191	MBC6A09H	3697.6349313200	-56.7501938996	100.9999966028	-258.4492376556	135.0000800000	0.0000000000	0.0000000000
192	D734	3698.3364813200	-56.2541238299	100.9999966028	-258.9453091106	135.0000800000	0.0000000000	0.0000000000
193	ITV6A09	3698.3364813200	-56.2541238299	100.9999966028	-258.9453091106	135.0000800000	0.0000000000	0.0000000000
194	D722	3699.6572213200	-55.3202209237	100.9999966028	-259.8792146248	135.0000800000	0.0000000000	0.0000000000
195	MBB6A09	3701.6580213200	-53.8383231937	100.9999966028	-261.2223324415	129.3750900000	0.0000000000	0.0000000000
196	D723	3704.7505313200	-51.4477837183	100.9999966028	-263.1842037718	129.3750900000	0.0000000000	0.0000000000
197	MBB6A10	3706.7513313200	-49.8413733714	100.9999966028	-264.3756030117	123.7501000000	0.0000000000	0.0000000000
198	D724	3708.7421213200	-48.1860939123	100.9999966028	-265.4816295649	123.7501000000	0.0000000000	0.0000000000
199	IPM6A10	3708.7421213200	-48.1860939123	100.9999966028	-265.4816295649	123.7501000000	0.0000000000	0.0000000000
200	D703	3708.9667713200	-47.9993044817	100.9999966028	-265.6064387438	123.7501000000	0.0000000000	0.0000000000
201	MQA6A10	3709.2667713200	-47.7498638889	100.9999966028	-265.7731102490	123.7501000000	0.0000000000	0.0000000000
202	D725	3709.6560113200	-47.4262230344	100.9999966028	-265.9893609714	123.7501000000	0.0000000000	0.0000000000
203	MBC6A10V	3709.6560113300	-47.4262230261	100.9999966028	-265.9893609769	123.7501000000	0.0000000000	0.0000000000
204	D726	3712.7274113300	-44.8724502371	100.9999966028	-267.6957438478	123.7501000000	0.0000000000	0.0000000000
205	D703	3712.9520613300	-44.6856608065	100.9999966028	-267.8205530267	123.7501000000	0.0000000000	0.0000000000
206	MQA6A11	3713.2520613300	-44.4362202137	100.9999966028	-267.9872245319	123.7501000000	0.0000000000	0.0000000000
207	D704	3713.4452113300	-44.2756220454	100.9999966028	-268.0945332027	123.7501000000	0.0000000000	0.0000000000
208	MBC6A11H	3713.4452113400	-44.2756220371	100.9999966028	-268.0945332083	123.7501000000	0.0000000000	0.0000000000
209	D735	3716.9373613400	-41.3720088167	100.9999966028	-270.0346728653	123.7501000000	0.0000000000	0.0000000000
210	IPM6A12	3716.9373613400	-41.3720088167	100.9999966028	-270.0346728653	123.7501000000	0.0000000000	0.0000000000
211	MQA6A12	3717.2373613400	-41.1225682239	100.9999966028	-270.2013443705	123.7501000000	0.0000000000	0.0000000000
212	D725	3717.6266013400	-40.7989273694	100.9999966028	-270.4175950929	123.7501000000	0.0000000000	0.0000000000
213	MBC6A12V	3717.6266013500	-40.7989273611	100.9999966028	-270.4175950985	123.7501000000	0.0000000000	0.0000000000
214	D729	3719.4528113500	-39.2804910112	100.9999966028	-271.4321856639	123.7501000000	0.0000000000	0.0000000000
215	MBB6A11	3721.4536113500	-37.5650386021	100.9999966028	-272.4603925418	118.1251100000	0.0000000000	0.0000000000
216	D723	3724.5461213500	-34.8376910717	100.9999966028	-273.9181969006	118.1251100000	0.0000000000	0.0000000000
217	MBB6A12	3726.5469213500	-33.0297172862	100.9999966028	-274.7733092574	112.5001200000	0.0000000000	0.0000000000
218	D724	3728.5377113500	-31.1904687473	100.9999966028	-275.5351554599	112.5001200000	0.0000000000	0.0000000000
219	IPM6A13	3728.5377113500	-31.1904687473	100.9999966028	-275.5351554599	112.5001200000	0.0000000000	0.0000000000
220	D703	3728.7623613500	-30.9829193904	100.9999966028	-275.6211257276	112.5001200000	0.0000000000	0.0000000000
221	MQA6A13	3729.0623613500	-30.7057557711	100.9999966028	-275.7359313378	112.5001200000	0.0000000000	0.0000000000
222	D704	3729.2555113500	-30.5273085942	100.9999966028	-275.8098470165	112.5001200000	0.0000000000	0.0000000000
223	MBC6A13H	3729.2555113600	-30.5273085850	100.9999966028	-275.8098470204	112.5001200000	0.0000000000	0.0000000000
224	D730	3731.2778013600	-28.6589578660	100.9999966028	-276.5837478119	112.5001200000	0.0000000000	0.0000000000
225	MBB6A13	3733.2786013600	-26.7758744182	100.9999966028	-277.2575304774	106.8751300000	0.0000000000	0.0000000000
226	D723	3736.3711113600	-23.8165288974	100.9999966028	-278.1552454592	106.8751300000	0.0000000000	0.0000000000
227	MBB6A14	3738.3719113600	-21.8764708459	100.9999966028	-278.6412095611	101.2501400000	0.0000000000	0.0000000000
228	D736	3740.5873513600	-19.7036009603	100.9999966028	-279.0734257734	101.2501400000	0.0000000000	0.0000000000
229	IPM6A14	3740.5873513600	-19.7036009603	100.9999966028	-279.0734257734	101.2501400000	0.0000000000	0.0000000000
230	MQA							

253	MBC6A17H	3760.8760914000	0.3430918287	100.9999966028	-281.8139164772	90.0001600000	0.0000000000	0.0000000000
254	D734	3761.5776414000	1.0446418287	100.9999966028	-281.8139184363	90.0001600000	0.0000000000	0.0000000000
255	ITV6A17	3761.5776414000	1.0446418287	100.9999966028	-281.8139184363	90.0001600000	0.0000000000	0.0000000000
256	D722	3762.8983814000	2.3653818287	100.9999966028	-281.8139221245	90.0001600000	0.0000000000	0.0000000000
257	MBB6A17	3764.8991814000	4.3629696157	100.9999966028	-281.7157926959	84.3751700000	0.0000000000	0.0000000000
258	D723	3767.9916914000	7.4405892341	100.9999966028	-281.4126828408	84.3751700000	0.0000000000	0.0000000000
259	MBB6A18	3769.9924914000	9.4189397752	100.9999966028	-281.1192284350	78.7501800000	0.0000000000	0.0000000000
260	D724	3771.9832814000	11.3714785237	100.9999966028	-280.7308507070	78.7501800000	0.0000000000	0.0000000000
261	IPM6A18	3771.9832814000	11.3714785237	100.9999966028	-280.7308507070	78.7501800000	0.0000000000	0.0000000000
262	D703	3772.2079314000	11.5918120747	100.9999966028	-280.6870243583	78.7501800000	0.0000000000	0.0000000000
263	MQA6A18	3772.5079314000	11.8860478427	100.9999966028	-280.6284981861	78.7501800000	0.0000000000	0.0000000000
264	D725	3772.8971714000	12.2678089438	100.9999966028	-280.5525624285	78.7501800000	0.0000000000	0.0000000000
265	MBC6A18V	3772.8971714000	12.2678089536	100.9999966028	-280.5525624265	78.7501800000	0.0000000000	0.0000000000
266	D726	3775.9685714000	15.2801947462	100.9999966028	-279.9533714752	78.7501800000	0.0000000000	0.0000000000
267	D703	3776.1932214000	15.5005282972	100.9999966028	-279.9095451265	78.7501800000	0.0000000000	0.0000000000
268	MQA6A19	3776.4932214000	15.7947640651	100.9999966028	-279.8510189543	78.7501800000	0.0000000000	0.0000000000
269	D704	3776.6863714000	15.9842028604	100.9999966028	-279.8133378537	78.7501800000	0.0000000000	0.0000000000
270	MBC6A19H	3776.6863714000	15.9842028702	100.9999966028	-279.8133378518	78.7501800000	0.0000000000	0.0000000000
271	D735	3780.1785214000	19.4092543275	100.9999966028	-279.1320639439	78.7501800000	0.0000000000	0.0000000000
272	IPM6A20	3780.1785214000	19.4092543275	100.9999966028	-279.1320639439	78.7501800000	0.0000000000	0.0000000000
273	MQA6A20	3780.4785214000	19.7034900955	100.9999966028	-279.0735377716	78.7501800000	0.0000000000	0.0000000000
274	D725	3780.8677614000	20.0852511966	100.9999966028	-278.9976020140	78.7501800000	0.0000000000	0.0000000000
275	MBC6A20V	3780.8677614000	20.0852512064	100.9999966028	-278.9976020121	78.7501800000	0.0000000000	0.0000000000
276	D729	3782.6939714000	21.8763722126	100.9999966028	-278.6413317421	78.7501800000	0.0000000000	0.0000000000
277	MBB6A19	3784.6947714000	23.8164329782	100.9999966028	-278.1553784755	73.1251900000	0.0000000000	0.0000000000
278	D723	3787.7872814000	26.7757835128	100.9999966028	-277.2576800218	73.1251900000	0.0000000000	0.0000000000
279	MBB6A20	3789.7880814000	28.6588707237	100.9999966028	-277.5839078734	67.5002000000	0.0000000000	0.0000000000
280	D724	3791.7788714000	30.4981235175	100.9999966028	-275.8220719433	67.5002000000	0.0000000000	0.0000000000
281	IPM6A21	3791.7788714000	30.4981235175	100.9999966028	-275.8220719433	67.5002000000	0.0000000000	0.0000000000
282	D703	3792.0035214000	30.7056733546	100.9999966028	-275.7361028347	67.5002000000	0.0000000000	0.0000000000
283	MQA6A21	3792.3035214000	30.9828376151	100.9999966028	-275.6212987725	67.5002000000	0.0000000000	0.0000000000
284	D704	3792.4966714000	31.1612852048	100.9999966028	-275.5473840904	67.5002000000	0.0000000000	0.0000000000
285	MBC6A21H	3792.4966714000	31.1612852140	100.9999966028	-275.5473840866	67.5002000000	0.0000000000	0.0000000000
286	D730	3794.5189614000	33.0296402552	100.9999966028	-274.7734937299	67.5002000000	0.0000000000	0.0000000000
287	MBB6A21	3796.5197614000	34.8376188165	100.9999966028	-273.9183914707	61.8752100000	0.0000000000	0.0000000000
288	D723	3799.6122714000	37.5649744888	100.9999966028	-272.4606023444	61.8752100000	0.0000000000	0.0000000000
289	MBB6A22	3801.6130714000	39.2804326404	100.9999966028	-271.4324050474	56.2502200000	0.0000000000	0.0000000000
290	D736	3803.8285114000	41.1225084044	100.9999966028	-270.2015796034	56.2502200000	0.0000000000	0.0000000000
291	IPM6A22	3803.8285114000	41.1225084044	100.9999966028	-270.2015796034	56.2502200000	0.0000000000	0.0000000000
292	MQA6A22	3804.1285114000	41.3719499280	100.9999966028	-270.0349094913	56.2502200000	0.0000000000	0.0000000000
293	D725	3804.5177514000	41.6955919903	100.9999966028	-269.8186605764	56.2502200000	0.0000000000	0.0000000000
294	MBC6A22V	3804.5177514000	41.6955919986	100.9999966028	-269.8186605709	56.2502200000	0.0000000000	0.0000000000
295	D731	3807.5891614000	44.2493826325	100.9999966028	-268.1122864073	56.2502200000	0.0000000000	0.0000000000
296	D703	3807.8138114000	44.4361727601	100.9999966028	-267.9874782717	56.2502200000	0.0000000000	0.0000000000
297	MQA6A23	3808.1138114000	44.6856142838	100.9999966028	-267.8208081596	56.2502200000	0.0000000000	0.0000000000
298	D704	3808.3069614000	44.8462130515	100.9999966028	-267.7135003857	56.2502200000	0.0000000000	0.0000000000
299	MBC6A23H	3808.3069614000	44.8462130598	100.9999966028	-267.7135003802	56.2502200000	0.0000000000	0.0000000000
300	D732	3811.5744614000	47.5630469883	100.9999966028	-265.8981850757	56.2502200000	0.0000000000	0.0000000000
301	IPM6A24	3811.5744614000	47.5630469883	100.9999966028	-265.8981850757	56.2502200000	0.0000000000	0.0000000000
302	D703	3811.7991114000	47.7498371159	100.9999966028	-265.7733769400	56.2502200000	0.0000000000	0.0000000000
303	MQA6A24	3812.0991114000	47.9992786396	100.9999966028	-265.6067068279	56.2502200000	0.0000000000	0.0000000000
304	D725	3812.4883514000	48.3229207018	100.9999966028	-265.3904579131	56.2502200000	0.0000000000	0.0000000000
305	MBC6A24V	3812.4883514000	48.3229207101	100.9999966028	-265.3904579076	56.2502200000	0.0000000000	0.0000000000
306	D733	3814.3145514000	49.8413544118	100.9999966028	-264.3758813784	56.2502200000	0.0000000000	0.0000000000
307	MBB6A23	3816.3153514000	51.4477714128	100.9999966028	-263.1844911103	50.6252300000	0.0000000000	0.0000000000
308	D723	3819.4078614000	53.8383218453	100.9999966028	-261.2226331314	50.6252300000	0.0000000000	0.0000000000
309	MBB6A24	3821.4086614000	55.3202270767	100.9999966028	-259.8795235912	45.0002400000	0.0000000000	0.0000000000
310	D724	3823.3994514000	56.7279340821	100.9999966028	-258.4718283788	45.0002400000	0.0000000000	0.0000000000
311	IPM6A25	3823.3994514000	56.7279340821	100.9999966028	-258.4718283788	45.0002400000	0.0000000000	0.0000000000
312	D703	3823.6241014000	56.8867862859	100.9999966028	-258.3129775058	45.0002400000	0.0000000000	0.0000000000
313	MQA6A25	3823.9241014000	57.0989192088	100.9999966028	-258.1008463601	45.0002400000	0.0000000000	0.0000000000
314	D704	3824.1172514000	57.2354974557	100.9999966028	-257.9642692574	45.0002400000	0.0000000000	0.0000000000
315	MBC6A25H	3824.1172514000	57.2354974628	100.9999966028	-257.9642692503	45.0002400000	0.0000000000	0.0000000000
316	D734	3824.8188014000	57.7315703031	100.9999966028	-257.4682005659	45.0002400000	0.0000000000	0.0000000000
317	ITV6A25	3824.8188014000	57.7315703031	100.9999966028	-257.4682005659	45.0002400000	0.0000000000	0.0000000000
318	D722	3826.1395414000	58.6654784252	100.9999966028	-256.5343002677	45.0002400000	0.0000000000	0.0000000000
319	MBB6A25	3828.1403414000	60.0086003801	100.9999966028	-255.0524062884	39.3752500000	0.0000000000	0.0000000000
320	D723	3831.2328514000	61.9704783860	100.9999966028	-252.6618722915	39.3752500000	0.0000000000	0.0000000000
321	MBB6A26	3833.2336514000	63.1618821119	100.9999966028	-251.0554652716	33.7502600000	0.0000000000	0.0000000000
322	D724	3835.2244414000	64.2679132875	100.9999966028	-249.4001889011	33.7502600000	0.0000000000	0.0000000000
323	IPM6A26	3835.2244414000	64.2679132875	100.9999966028	-249.4001889011	33.7502600000	0.0000000000	0.0000000000
324	D703	3835.4490914000	64.3927229880	100.9999966028	-249.2133998191	33.7502600000	0.0000000000	0.0000000000
325	MQA6A26	3835.7490914000	64.5593951898	100.9999966028	-248.9639596917	33.7502600000	0.0000000000	0.0000000000
326	D725	3836.1383314000	64.7756468160	100.9999966028	-248.6403194412	33.7502600000	0.0000000000	0.0000000000
327	MBC6A26V	3836.1383314000	64.7756468215	100.9999966028	-248.6403194329	33.7502600000	0.0000000000	0.0000000000
328	D726	3839.2097314000	66.4820368239	100.9999966028	-246.0865514090	33.7502600000	0.0000000000	0.0000000000
329	D703	3839.4343814000	66.6068465243	100.9999966028	-245.8997623269	33.7502600000	0.0000000000	0.0000000000
330	MQA6A27	3839.7343814000	66.7735187262	100.9999966028	-245.6503221996	33.7502600000	0.0000000000	0.0000000000
331	D704	3839.9275314000	66.8808278454	100.9999966028	-245.4897243309	33.7502600000	0.0000000000	0.0000000000
332	MBC6A27H	3839.9275315000	66.8808278510	100.9999966028	-245.4897243226	33.7502600000	0.0000000000	0.0000000000
333	D735	3843.4196815000	68.8209756164	100.9999966028	-242.5861165201	33.7502600000	0.0000000000	0.0000000000
334	IPM6A28	3843.4196815000	68.8209756164	100.9999966028	-242.5861165201	33.750		

357	D731	3870.8303215300	78.5934747679	100.9999966028	-217.2293475718	11.2503000000	0.0000000000	0.0000000000
358	D703	3871.0549715300	78.6373029624	100.9999966028	-217.0090143880	11.2503000000	0.0000000000	0.0000000000
359	MQA6A31	3871.3549715300	78.6958315996	100.9999966028	-216.7147791103	11.2503000000	0.0000000000	0.0000000000
360	D704	3871.5481215300	78.7335142872	100.9999966028	-216.5253406307	11.2503000000	0.0000000000	0.0000000000
361	MBC6A31H	3871.5481215400	78.7335142892	100.9999966028	-216.5253406209	11.2503000000	0.0000000000	0.0000000000
362	D732	3874.8156215400	79.3709886962	100.9999966028	-213.3206280550	11.2503000000	0.0000000000	0.0000000000
363	IPM6A32	3874.8156215400	79.3709886962	100.9999966028	-213.3206280550	11.2503000000	0.0000000000	0.0000000000
364	D703	3875.0402715400	79.4148168907	100.9999966028	-213.1002948712	11.2503000000	0.0000000000	0.0000000000
365	MQA6A32	3875.3402715400	79.4733455279	100.9999966028	-212.8060595935	11.2503000000	0.0000000000	0.0000000000
366	D725	3875.7295115400	79.5492844838	100.9999966028	-212.4242991286	11.2503000000	0.0000000000	0.0000000000
367	MBC6A32V	3875.7295115500	79.5492844857	100.9999966028	-212.4242991188	11.2503000000	0.0000000000	0.0000000000
368	D733	3877.5557115500	79.9055678100	100.9999966028	-210.6331909052	11.2503000000	0.0000000000	0.0000000000
369	MBC6A31	3879.5565115500	80.1990387895	100.9999966028	-208.6548428226	5.6253100000	0.0000000000	0.0000000000
370	D723	3882.6490215500	80.5021744277	100.9999966028	-205.5772257436	5.6253100000	0.0000000000	0.0000000000
371	MBC6A32	3884.6498215500	80.6003205912	100.9999966028	-203.5796387787	0.0003200000	0.0000000000	0.0000000000
372	D724	3886.6406115500	80.6003317099	100.9999966028	-201.5888487787	0.0003200000	0.0000000000	0.0000000000
373	IPM6R01	3886.6406115500	80.6003317099	100.9999966028	-201.5888487787	0.0003200000	0.0000000000	0.0000000000
374	D703	3886.8652615500	80.6003329646	100.9999966028	-201.3641987787	0.0003200000	0.0000000000	0.0000000000
375	MQA6R01	3887.1652615500	80.6003346401	100.9999966028	-201.0641987787	0.0003200000	0.0000000000	0.0000000000
376	D704	3887.3584115500	80.6003357188	100.9999966028	-200.8710487787	0.0003200000	0.0000000000	0.0000000000
377	MBC6R01H	3887.3584115600	80.6003357188	100.9999966028	-200.8710487687	0.0003200000	0.0000000000	0.0000000000
378	D734	3888.0599615600	80.6003396370	100.9999966028	-200.1694987688	0.0003200000	0.0000000000	0.0000000000
379	ITV6R01	3888.0599615600	80.6003396370	100.9999966028	-200.1694987688	0.0003200000	0.0000000000	0.0000000000
380	D737	3889.8406115600	80.6003495821	100.9999966028	-198.3888487688	0.0003200000	0.0000000000	0.0000000000
381	IPM6R02	3889.8406115600	80.6003495821	100.9999966028	-198.3888487688	0.0003200000	0.0000000000	0.0000000000
382	D703	3890.0652615600	80.6003508367	100.9999966028	-198.1641987688	0.0003200000	0.0000000000	0.0000000000
383	MQA6R02	3890.3652615600	80.6003525123	100.9999966028	-197.8641987688	0.0003200000	0.0000000000	0.0000000000
384	D704	3890.5584115600	80.6003535910	100.9999966028	-197.6710487688	0.0003200000	0.0000000000	0.0000000000
385	MBC6R02H	3890.5584115700	80.6003535910	100.9999966028	-197.6710487588	0.0003200000	0.0000000000	0.0000000000
386	D705	3890.7545015700	80.6003546862	100.9999966028	-197.4749587588	0.0003200000	0.0000000000	0.0000000000
387	MBC6R02V	3890.7545015800	80.6003546862	100.9999966028	-197.4749587488	0.0003200000	0.0000000000	0.0000000000
388	D716	3893.0406115800	80.6003674542	100.9999966028	-195.1888487488	0.0003200000	0.0000000000	0.0000000000
389	IPM6R03	3893.0406115800	80.6003674542	100.9999966028	-195.1888487488	0.0003200000	0.0000000000	0.0000000000
390	D703	3893.2652615800	80.6003687089	100.9999966028	-194.9641987488	0.0003200000	0.0000000000	0.0000000000
391	MQA6R03	3893.5652615800	80.6003703844	100.9999966028	-194.6641987488	0.0003200000	0.0000000000	0.0000000000
392	D704	3893.7584115800	80.6003714632	100.9999966028	-194.4710487488	0.0003200000	0.0000000000	0.0000000000
393	MBC6R03H	3893.7584115900	80.6003714632	100.9999966028	-194.4710487388	0.0003200000	0.0000000000	0.0000000000
394	D738	3896.2406115900	80.6003853264	100.9999966028	-191.9888487389	0.0003200000	0.0000000000	0.0000000000
395	IPM6R04	3896.2406115900	80.6003853264	100.9999966028	-191.9888487389	0.0003200000	0.0000000000	0.0000000000
396	D703	3896.4652615900	80.6003865811	100.9999966028	-191.7641987389	0.0003200000	0.0000000000	0.0000000000
397	MQA6R04	3896.7652615900	80.6003882566	100.9999966028	-191.4641987389	0.0003200000	0.0000000000	0.0000000000
398	D704	3896.9584115900	80.6003893354	100.9999966028	-191.2710487389	0.0003200000	0.0000000000	0.0000000000
399	MBC6R04H	3896.9584116000	80.6003893354	100.9999966028	-191.2710487289	0.0003200000	0.0000000000	0.0000000000
400	D705	3897.1545016000	80.6003904305	100.9999966028	-191.0749587289	0.0003200000	0.0000000000	0.0000000000
401	MBC6R04V	3897.1545016100	80.6003904305	100.9999966028	-191.0749587189	0.0003200000	0.0000000000	0.0000000000
402	D739	3899.6652616100	80.6004044533	100.9999966028	-188.5641987189	0.0003200000	0.0000000000	0.0000000000
403	MQA6R05	3899.9652616100	80.6004061288	100.9999966028	-188.2641987189	0.0003200000	0.0000000000	0.0000000000
404	D712	3900.8599616100	80.6004111257	100.9999966028	-187.3694987189	0.0003200000	0.0000000000	0.0000000000
405	ITV6R05	3900.8599616100	80.6004111257	100.9999966028	-187.3694987190	0.0003200000	0.0000000000	0.0000000000
406	D713	3901.0406116100	80.6004121347	100.9999966028	-187.1888487190	0.0003200000	0.0000000000	0.0000000000
407	IPM6R06	3901.0406116100	80.6004121347	100.9999966028	-187.1888487190	0.0003200000	0.0000000000	0.0000000000
408	D703	3901.2652616100	80.6004133893	100.9999966028	-186.9641987190	0.0003200000	0.0000000000	0.0000000000
409	MQA6R06	3901.5652616100	80.6004150649	100.9999966028	-186.6641987190	0.0003200000	0.0000000000	0.0000000000
410	D704	3901.7584116100	80.6004161436	100.9999966028	-186.4710487190	0.0003200000	0.0000000000	0.0000000000
411	MBC6R06H	3901.7584116200	80.6004161436	100.9999966028	-186.4710487090	0.0003200000	0.0000000000	0.0000000000
412	D740	3902.8652616200	80.6004223254	100.9999966028	-185.3641987090	0.0003200000	0.0000000000	0.0000000000
413	MQA6R07	3903.1652616200	80.6004240009	100.9999966028	-185.0641987090	0.0003200000	0.0000000000	0.0000000000
414	D725	3903.5545016200	80.6004261749	100.9999966028	-184.6749587090	0.0003200000	0.0000000000	0.0000000000
415	MBC6R07V	3903.5545016300	80.6004261749	100.9999966028	-184.6749586990	0.0003200000	0.0000000000	0.0000000000
416	D741	3904.1788316300	80.6004296618	100.9999966028	-184.0506286990	0.0003200000	0.0000000000	0.0000000000
417	MAB6R01	3905.1789916300	80.6004352441	100.9686001981	-183.0511260525	0.0003200000	-3.5983700000	0.0000000000
418	D742B	3908.9583916300	80.6004563106	100.7313970161	-179.2791770854	0.0003200000	-3.5983700000	0.0000000000
419	MAB6R03	3909.9585163000	80.6004618929	100.7000066115	-178.2796744389	0.0003200000	0.0000000000	0.0000000000
420	D743B	3910.8150016300	80.6004666762	100.7000066115	-177.4232244389	0.0003200000	0.0000000000	0.0000000000
421	IPM6R08	3910.8150016300	80.6004666762	100.7000066115	-177.4232244389	0.0003200000	0.0000000000	0.0000000000
422	D703	3911.0396516300	80.6004679309	100.7000066115	-177.1985744389	0.0003200000	0.0000000000	0.0000000000
423	MQA6R08	3911.3396516300	80.6004696064	100.7000066115	-176.8985744389	0.0003200000	0.0000000000	0.0000000000
424	D704	3911.5328016300	80.6004706851	100.7000066115	-176.7054244389	0.0003200000	0.0000000000	0.0000000000
425	MBC6R08H	3911.5328016400	80.6004706851	100.7000066115	-176.7054244289	0.0003200000	0.0000000000	0.0000000000
426	D705	3911.7288916400	80.6004717803	100.7000066115	-176.5093344289	0.0003200000	0.0000000000	0.0000000000
427	MBC6R08V	3911.7288916500	80.6004717803	100.7000066115	-176.5093344189	0.0003200000	0.0000000000	0.0000000000
428	D708	3912.8850016500	80.6004782373	100.7000066115	-175.3532244190	0.0003200000	0.0000000000	0.0000000000
429	IPM6R09	3912.8850016500	80.6004782373	100.7000066115	-175.3532244190	0.0003200000	0.0000000000	0.0000000000
430	D703	3913.1096516500	80.6004794919	100.7000066115	-175.1285744190	0.0003200000	0.0000000000	0.0000000000
431	MQA6R09	3913.4096516500	80.6004811675	100.7000066115	-174.8285744190	0.0003200000	0.0000000000	0.0000000000
432	D704	3913.6028016500	80.6004822462	100.7000066115	-174.6354244190	0.0003200000	0.0000000000	0.0000000000
433	MBC6R09H	3913.6028016600	80.6004822462	100.7000066115	-174.6354244090	0.0003200000	0.0000000000	0.0000000000
434	D744	3917.7150016600	80.6005052131	100.7000066115	-170.5232244090	0.0003200000	0.0000000000	0.0000000000
435	IPM6R10	3917.7150016600	80.6005052131	100.7000066115	-170.5232244090	0.0003200000	0.0000000000	0.0000000000
436	D703	3917.9396516600	80.6005064677	100.7000066115	-170.2985744090	0.0003200000	0.0000000000	0.0000000000
437	MQA6R10	3918.2396516600	80.6005081433	100.7000066115	-169.9985744090	0.0003200000	0.0000000000	0.0000000000
438	D704	3918.4328016600	80.6005092220	100.7000066115	-169.8054244090	0.0003200000	0.0000000000	0.0000000000
439	MBC6R10H							

XSIF Parser Version 2.1
Version Date: 01-JAN-2004
Run: 12-JUN-2007 12:48:25
XSIF Parser developed by NLC Department,
Stanford Linear Accelerator Center.

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UTRANSPORT
TITLE
CONVERTED FROM ../.././OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//ARC7.OPT
5
MAQ7S01: SBEND, L=1.00041, ANGLE=2.85721, K1=0.418202, &
E1=0, E2=2.85721, HGAP=0.01905, &
HGAPX=0.0190493, &
FINT=0.5, TILT=90
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D40066: DRIFT, L=1.00124
MAS7S02: SBEND, L=1.00275, ANGLE=2.64386, K1=0.490707, &
E1=2.85721, E2=5.50107, HGAP=0.023749, &
HGAPX=0.0237489, &
FINT=0.5, TILT=90
15
D40067: DRIFT, L=0.885965
MYR7S03: SBEND, L=3.00461, ANGLE=-5.50106, K1=-2.37449, &
E1=-5.50107, E2=-0, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=90
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D802A: DRIFT, L=2.0265
MBC7S00H: GKICK, L=1E-08, DXP=0, DYP=0
D803: DRIFT, L=2.26629
IPM7S01: MONITOR, L=0
D804: DRIFT, L=0.22465
25
MQA7S01: QUADRUPOLE, L=0.3, K1=-1.13105, TILT=0
D805: DRIFT, L=0.38924
MBC7S01V: GKICK, L=1E-08, DXP=0, DYP=0
D806: DRIFT, L=0.50546
ITV7S01: MONITOR, L=0
30
D807A: DRIFT, L=0.87679
D808: DRIFT, L=0.19609
MBC7S02H: GKICK, L=1E-08, DXP=0, DYP=0
D809: DRIFT, L=0.19315
MQR7S02: QUADRUPOLE, L=0.5, K1=1.11742, TILT=0
35
IPM7S02: MONITOR, L=0
D810A: DRIFT, L=0.55763
MBC7S03V: GKICK, L=1E-08, DXP=0, DYP=0
MQA7S03: QUADRUPOLE, L=0.3, K1=-1.4573, TILT=0
D881: DRIFT, L=0.1
40
MQA7S03A: QUADRUPOLE, L=0.3, K1=-1.4573, TILT=0
IPM7S03: MONITOR, L=0
D811A: DRIFT, L=0.30035
MAC7S04: SBEND, L=1.00003, ANGLE=1.56607, K1=-3.70923, &
E1=0.784092, E2=0.784092, HGAP=0.0129539, &
45
HGAPX=0.0129539, &
FINT=0.5, TILT=90
D40072: DRIFT, L=3.50131
MAC7S06: SBEND, L=1.00003, ANGLE=-1.56607, K1=-3.70923, &
E1=-0.784092, E2=-0.784092, HGAP=0.0129539, &
50
HGAPX=0.0129539, &
FINT=0.5, TILT=90
D813: DRIFT, L=2.05367
MQA7S04: QUADRUPOLE, L=0.3, K1=-0.639416, TILT=0
D814: DRIFT, L=0.8947
55
ITV7S04: MONITOR, L=0
D815: DRIFT, L=0.58065
IPM7S05: MONITOR, L=0
MQA7S05: QUADRUPOLE, L=0.3, K1=1.4245, TILT=0
MBC7S05H: GKICK, L=1E-08, DXP=0, DYP=0
60
MBC7S05V: GKICK, L=1E-08, DXP=0, DYP=0
D816: DRIFT, L=1.31076
MQA7S06: QUADRUPOLE, L=0.3, K1=-1.10571, TILT=0
D817: DRIFT, L=3.47535
IPM7S07: MONITOR, L=0
65
MQA7S07: QUADRUPOLE, L=0.3, K1=0.141507, TILT=0
MBC7S07V: GKICK, L=1E-08, DXP=0, DYP=0
D818A: DRIFT, L=2.98611
IPM7S08: MONITOR, L=0
MQR7S08: QUADRUPOLE, L=0.5, K1=1.06563, TILT=0
70
MBC7S08H: GKICK, L=1E-08, DXP=0, DYP=0
MBC7S08V: GKICK, L=1E-08, DXP=0, DYP=0
IPM7S09: MONITOR, L=0
MQA7S09: QUADRUPOLE, L=0.3, K1=-1.14532, TILT=0
MBC7S09V: GKICK, L=1E-08, DXP=0, DYP=0
75
D818: DRIFT, L=3.08611
IPM7S10: MONITOR, L=0
MQA7S10: QUADRUPOLE, L=0.3, K1=0.809065, TILT=0
MBC7S10H: GKICK, L=1E-08, DXP=0, DYP=0
MBC7S10V: GKICK, L=1E-08, DXP=0, DYP=0
80
D819: DRIFT, L=15.6361
IPM7E01: MONITOR, L=0
MQC7E01: QUADRUPOLE, L=0.3, K1=-0.266992, TILT=0
MBM7E01H: GKICK, L=1E-08, DXP=0, DYP=0
MBM7E01V: GKICK, L=1E-08, DXP=0, DYP=0
85
IHA7E01: MONITOR, L=0
D820: DRIFT, L=0.2303
MBY7E01: SBEND, L=1.00029, ANGLE=-2.40609, K1=-0, &
E1=-0, E2=-2.40609, HGAP=0, &
HGAPX=0, &
90
FINT=0.5, TILT=0
D821: DRIFT, L=5.00442
MBZ7E02: SBEND, L=2.00059, ANGLE=4.81218, K1=-0, &
E1=2.40609, E2=2.40609, HGAP=0, &
HGAPX=0, &
95
FINT=0.5, TILT=0
MBY7E03: SBEND, L=1.00029, ANGLE=-2.40609, K1=-0, &
E1=-2.40609, E2=-0, HGAP=0, &
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HGAPX=0, &
FINT=0.5, TILT=0
100 D822: DRIFT, L=0.900346
IPM7E02: MONITOR, L=0
MQC7E02: QUADRUPOLE, L=0.3, K1=0.216723, TILT=0
MBM7E02H: GKICK, L=1E-08, DXP=0, DYP=0
MBM7E02V: GKICK, L=1E-08, DXP=0, DYP=0
105 IPM7E03: MONITOR, L=0
MQC7E03: QUADRUPOLE, L=0.3, K1=-0.348194, TILT=0
MBM7E03H: GKICK, L=1E-08, DXP=0, DYP=0
D823: DRIFT, L=0.273
MBM7E03V: GKICK, L=1E-08, DXP=0, DYP=0
110 D824: DRIFT, L=15.5592
IPM7A01: MONITOR, L=0
MQA7A01: QUADRUPOLE, L=0.3, K1=0.409256, TILT=0
MBC7A01H: GKICK, L=1E-08, DXP=0, DYP=0
MBC7A01V: GKICK, L=1E-08, DXP=0, DYP=0
115 ITV7A01: MONITOR, L=0
D825: DRIFT, L=0.82126
MBA7A01: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
D826: DRIFT, L=2.41914
MBA7A02: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
120 FINT=0.5, TILT=0
D827: DRIFT, L=1.49131
IPM7A02: MONITOR, L=0
MQA7A02: QUADRUPOLE, L=0.3, K1=-0.588581, TILT=0
MBC7A02V: GKICK, L=1E-08, DXP=0, DYP=0
130 D828: DRIFT, L=0.2635
D829: DRIFT, L=2.67551
IPM7A03: MONITOR, L=0
MQA7A03: QUADRUPOLE, L=0.3, K1=1.08409, TILT=0
MBC7A03H: GKICK, L=1E-08, DXP=0, DYP=0
135 D830: DRIFT, L=0.41809
IHA7A03: MONITOR, L=0
D831: DRIFT, L=2.52092
IPM7A04: MONITOR, L=0
MQA7A04: QUADRUPOLE, L=0.3, K1=-0.588581, TILT=0
140 MBC7A04V: GKICK, L=1E-08, DXP=0, DYP=0
D832: DRIFT, L=1.32673
MBA7A03: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
145 MBA7A04: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
150 IPM7A05: MONITOR, L=0
MQA7A05: QUADRUPOLE, L=0.3, K1=0.468874, TILT=0
MBC7A05H: GKICK, L=1E-08, DXP=0, DYP=0
D833: DRIFT, L=1.52281
MBA7A05: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
155 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
MBA7A06: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
160 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM7A06: MONITOR, L=0
MQA7A06: QUADRUPOLE, L=0.3, K1=-0.588581, TILT=0
MBC7A06V: GKICK, L=1E-08, DXP=0, DYP=0
165 D834: DRIFT, L=2.74293
IPM7A07: MONITOR, L=0
MQA7A07: QUADRUPOLE, L=0.3, K1=1.08409, TILT=0
MBC7A07H: GKICK, L=1E-08, DXP=0, DYP=0
D835: DRIFT, L=2.93902
170 IPM7A08: MONITOR, L=0
MQA7A08: QUADRUPOLE, L=0.3, K1=-0.588581, TILT=0
MBC7A08V: GKICK, L=1E-08, DXP=0, DYP=0
D836: DRIFT, L=1.32672
MBA7A07: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
175 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
MBA7A08: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
180 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM7A09: MONITOR, L=0
MQA7A09: QUADRUPOLE, L=0.3, K1=0.581969, TILT=0
MBC7A09H: GKICK, L=1E-08, DXP=0, DYP=0
185 D837: DRIFT, L=0.70155
ITV7A09: MONITOR, L=0
MBA7A09: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
190 FINT=0.5, TILT=0
MBA7A10: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
195 IPM7A10: MONITOR, L=0
MQA7A10: QUADRUPOLE, L=0.3, K1=-0.588581, TILT=0
MBC7A10V: GKICK, L=1E-08, DXP=0, DYP=0
D838: DRIFT, L=2.74292
MQA7A11: QUADRUPOLE, L=0.3, K1=1.08409, TILT=0
200 MBC7A11H: GKICK, L=1E-08, DXP=0, DYP=0
D839: DRIFT, L=3.16366

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IPM7A12: MONITOR, L=0
MQA7A12: QUADRUPOLE, L=0.3, K1=-0.588581, TILT=0
MBC7A12V: GKICK, L=1E-08, DXP=0, DYP=0
205 MBA7A11: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
MBA7A12: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
210 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM7A13: MONITOR, L=0
MQA7A13: QUADRUPOLE, L=0.3, K1=0.468874, TILT=0
215 MBC7A13H: GKICK, L=1E-08, DXP=0, DYP=0
MBA7A13: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
220 MBA7A14: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
D840: DRIFT, L=1.71595
225 IPM7A14: MONITOR, L=0
MQA7A14: QUADRUPOLE, L=0.3, K1=-0.588581, TILT=0
MBC7A14V: GKICK, L=1E-08, DXP=0, DYP=0
MQA7A15: QUADRUPOLE, L=0.3, K1=1.08409, TILT=0
230 MBC7A15H: GKICK, L=1E-08, DXP=0, DYP=0
IPM7A16: MONITOR, L=0
MQA7A16: QUADRUPOLE, L=0.3, K1=-0.588581, TILT=0
MBC7A16V: GKICK, L=1E-08, DXP=0, DYP=0
235 MBA7A15: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
MBA7A16: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
240 E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM7A17: MONITOR, L=0
MQA7A17: QUADRUPOLE, L=0.3, K1=0.581969, TILT=0
MBC7A17H: GKICK, L=1E-08, DXP=0, DYP=0
245 ITV7A17: MONITOR, L=0
MBA7A17: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
250 MBA7A18: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM7A18: MONITOR, L=0
255 MQA7A18: QUADRUPOLE, L=0.3, K1=-0.588581, TILT=0
MBC7A18V: GKICK, L=1E-08, DXP=0, DYP=0
MQA7A19: QUADRUPOLE, L=0.3, K1=1.08409, TILT=0
MBC7A19H: GKICK, L=1E-08, DXP=0, DYP=0
IPM7A20: MONITOR, L=0
260 MQA7A20: QUADRUPOLE, L=0.3, K1=-0.588581, TILT=0
MBC7A20V: GKICK, L=1E-08, DXP=0, DYP=0
MBA7A19: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
265 MBA7A20: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM7A21: MONITOR, L=0
270 MQA7A21: QUADRUPOLE, L=0.3, K1=0.468874, TILT=0
MBC7A21H: GKICK, L=1E-08, DXP=0, DYP=0
MBA7A21: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
275 MBA7A22: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
280 IPM7A22: MONITOR, L=0
MQA7A22: QUADRUPOLE, L=0.3, K1=-0.588581, TILT=0
MBC7A22V: GKICK, L=1E-08, DXP=0, DYP=0
MQA7A23: QUADRUPOLE, L=0.3, K1=1.08409, TILT=0
MBC7A23H: GKICK, L=1E-08, DXP=0, DYP=0
285 IPM7A24: MONITOR, L=0
MQA7A24: QUADRUPOLE, L=0.3, K1=-0.588581, TILT=0
MBC7A24V: GKICK, L=1E-08, DXP=0, DYP=0
MBA7A23: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
290 MBA7A24: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
295 IPM7A25: MONITOR, L=0
MQA7A25: QUADRUPOLE, L=0.3, K1=0.581969, TILT=0
MBC7A25H: GKICK, L=1E-08, DXP=0, DYP=0
ITV7A25: MONITOR, L=0
300 MBA7A25: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
MBA7A26: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
305 E1=2.8125, E2=2.8125, HGAP=0.0126554, &

HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM7A26: MONITOR, L=0
MQA7A26: QUADRUPOLE, L=0.3, K1=-0.588581, TILT=0
310 MBC7A26V: GKICK, L=1E-08, DXP=0, DYP=0
MQA7A27: QUADRUPOLE, L=0.3, K1=1.08409, TILT=0
MBC7A27H: GKICK, L=1E-08, DXP=0, DYP=0
IPM7A28: MONITOR, L=0
MQA7A28: QUADRUPOLE, L=0.3, K1=-0.588581, TILT=0
315 MBC7A28V: GKICK, L=1E-08, DXP=0, DYP=0
MBA7A27: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
320 MBA7A28: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
IPM7A29: MONITOR, L=0
MQA7A29: QUADRUPOLE, L=0.3, K1=0.468874, TILT=0
325 MBC7A29H: GKICK, L=1E-08, DXP=0, DYP=0
MBA7A29: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
330 MBA7A30: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
335 IPM7A30: MONITOR, L=0
MQA7A30: QUADRUPOLE, L=0.3, K1=-0.588581, TILT=0
MBC7A30V: GKICK, L=1E-08, DXP=0, DYP=0
MQA7A31: QUADRUPOLE, L=0.3, K1=1.08409, TILT=0
340 MBC7A31H: GKICK, L=1E-08, DXP=0, DYP=0
IPM7A32: MONITOR, L=0
MQA7A32: QUADRUPOLE, L=0.3, K1=-0.588581, TILT=0
MBC7A32V: GKICK, L=1E-08, DXP=0, DYP=0
345 MBA7A31: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
FINT=0.5, TILT=0
MBA7A32: SBEND, L=3.00121, ANGLE=5.62499, K1=0.0799615, &
E1=2.8125, E2=2.8125, HGAP=0.0126554, &
HGAPX=0.0126554, &
350 FINT=0.5, TILT=0
IPM7R01: MONITOR, L=0
MQA7R01: QUADRUPOLE, L=0.3, K1=0.841541, TILT=0
MBC7R01H: GKICK, L=1E-08, DXP=0, DYP=0
ITV7R01: MONITOR, L=0
355 D841: DRIFT, L=2.58065
IPM7R02: MONITOR, L=0
MQA7R02: QUADRUPOLE, L=0.3, K1=-0.430252, TILT=0
MBC7R02V: GKICK, L=1E-08, DXP=0, DYP=0
360 IPM7R03: MONITOR, L=0
MQA7R03: QUADRUPOLE, L=0.3, K1=0.0953116, TILT=0
MBC7R03H: GKICK, L=1E-08, DXP=0, DYP=0
D842: DRIFT, L=3.2822
IPM7R04: MONITOR, L=0
MQA7R04: QUADRUPOLE, L=0.3, K1=0.0327848, TILT=0
365 D843: DRIFT, L=0.53125
MBC7R04V: GKICK, L=1E-08, DXP=0, DYP=0
D844: DRIFT, L=3.16875
MQA7R05: QUADRUPOLE, L=0.3, K1=0.744918, TILT=0
370 D845: DRIFT, L=1.47535
IPM7R06: MONITOR, L=0
MQA7R06: QUADRUPOLE, L=0.3, K1=-1.25821, TILT=0
MBC7R06H: GKICK, L=1E-08, DXP=0, DYP=0
D846: DRIFT, L=0.3096
MBC7R06V: GKICK, L=1E-08, DXP=0, DYP=0
375 D847: DRIFT, L=0.39195
ITV7R06: MONITOR, L=0
D848: DRIFT, L=0.8053
MQA7R07: QUADRUPOLE, L=0.3, K1=0.72646, TILT=0
D849: DRIFT, L=1.66444
380 MAC7R01: SBEND, L=1.00003, ANGLE=-1.56607, K1=-0.463653, &
E1=-0.783, E2=-0.783, HGAP=0.012954, &
HGAPX=0.012954, &
FINT=0.5, TILT=90
MAC7R03: SBEND, L=1.00003, ANGLE=1.56607, K1=-0.463653, &
385 E1=0.783, E2=0.783, HGAP=0.012954, &
HGAPX=0.012954, &
FINT=0.5, TILT=90
D850A: DRIFT, L=0.1983
IPM7R08: MONITOR, L=0
390 MQA7R08: QUADRUPOLE, L=0.3, K1=-1.27541, TILT=0
MQA7R08A: QUADRUPOLE, L=0.3, K1=-1.30784, TILT=0
MBC7R08V: GKICK, L=1E-08, DXP=0, DYP=0
D810B: DRIFT, L=0.98787
IPM7R09: MONITOR, L=0
395 MQR7R09: QUADRUPOLE, L=0.5, K1=0.957719, TILT=0
MBC7R09H: GKICK, L=1E-08, DXP=0, DYP=0
D851A: DRIFT, L=1.52926
MBC7R10V: GKICK, L=1E-08, DXP=0, DYP=0
IPM7R10: MONITOR, L=0
400 MBC7R10H: GKICK, L=1E-08, DXP=0, DYP=0
MQA7R10: QUADRUPOLE, L=0.3, K1=-1.08584, TILT=0
D852A: DRIFT, L=1.67273
MBC7R10AH: GKICK, L=1E-08, DXP=0, DYP=0
D853A: DRIFT, L=2.34316
405 MYR7R04: SBEND, L=3.00461, ANGLE=-5.50106, K1=-2.03527, &
E1=0, E2=-5.50107, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=90
MAS7R05: SBEND, L=1.00275, ANGLE=2.64386, K1=-0.163569, &

410 E1=5.50107, E2=2.85721, HGAP=0.0237489, &
HGAPX=0.023749, &
FINT=0.5, TILT=90
MAQ7R06: SBEND, L=1.00041, ANGLE=2.85721, K1=-0.278801, &
E1=2.85721, E2=0, HGAP=0.0190493, &
415 HGAPX=0.01905, &
FINT=0.5, TILT=90

ARC7: LINE=(MAQ7S01, &
D40066, MAS7S02, D40067, MYR7S03, D802A, &
420 MBC7S00H, D803, IPM7S01, D804, MQA7S01, &
D805, MBC7S01V, D806, ITV7S01, D807A, &
D808, MBC7S02H, D809, MQR7S02, D804, &
IPM7S02, D810A, MBC7S03V, D805, MQA7S03, &
D881, MQA7S03A, D804, IPM7S03, D811A, &
425 MAC7S04, D40072, MAC7S06, D813, MQA7S04, &
D814, ITV7S04, D815, IPM7S05, D804, &
MQA7S05, D809, MBC7S05H, D808, MBC7S05V, &
D816, MQA7S06, D817, IPM7S07, D804, &
MQA7S07, D805, MBC7S07V, D818A, IPM7S08, &
430 D804, MQR7S08, D809, MBC7S08H, D808, &
MBC7S08V, D818A, IPM7S09, D804, MQA7S09, &
D805, MBC7S09V, D818, IPM7S10, D804, &
MQA7S10, D809, MBC7S10H, D808, MBC7S10V, &
D819, IPM7E01, D804, MQC7E01, D809, &
435 MBM7E01H, D808, MBM7E01V, D806, IHA7E01, &
D820, MBY7E01, D821, MBZ7E02, D821, &
MBY7E03, D822, IPM7E02, D804, MQC7E02, &
D809, MBM7E02H, D808, MBM7E02V, D819, &
IPM7E03, D804, MQC7E03, D809, MBM7E03H, &
440 D823, MBM7E03V, D824, IPM7A01, D804, &
MQA7A01, D809, MBC7A01H, D808, MBC7A01V, &
D806, ITV7A01, D825, MBA7A01, D826, &
MBA7A02, D827, IPM7A02, D804, MQA7A02, &
D809, MBC7A02V, D828, D829, IPM7A03, &
445 D804, MQA7A03, D809, MBC7A03H, D830, &
IHA7A03, D831, IPM7A04, D804, MQA7A04, &
D805, MBC7A04V, D832, MBA7A03, D826, &
MBA7A04, D827, IPM7A05, D804, MQA7A05, &
D809, MBC7A05H, D833, MBA7A05, D826, &
450 MBA7A06, D827, IPM7A06, D804, MQA7A06, &
D805, MBC7A06V, D834, IPM7A07, D804, &
MQA7A07, D809, MBC7A07H, D835, IPM7A08, &
D804, MQA7A08, D805, MBC7A08V, D836, &
MBA7A07, D826, MBA7A08, D827, IPM7A09, &
455 D804, MQA7A09, D809, MBC7A09H, D837, &
ITV7A09, D825, MBA7A09, D826, MBA7A10, &
D827, IPM7A10, D804, MQA7A10, D805, &
MBC7A10V, D838, D804, MQA7A11, D809, &
MBC7A11H, D839, IPM7A12, MQA7A12, D805, &
460 MBC7A12V, D832, MBA7A11, D826, MBA7A12, &
D827, IPM7A13, D804, MQA7A13, D805, &
MBC7A13H, D836, MBA7A13, D826, MBA7A14, &
D840, IPM7A14, MQA7A14, D805, MBC7A14V, &
D834, D804, MQA7A15, D809, MBC7A15H, &
465 D835, IPM7A16, D804, MQA7A16, D805, &
MBC7A16V, D836, MBA7A15, D826, MBA7A16, &
D827, IPM7A17, D804, MQA7A17, D809, &
MBC7A17H, D837, ITV7A17, D825, MBA7A17, &
D826, MBA7A18, D827, IPM7A18, D804, &
470 MQA7A18, D805, MBC7A18V, D838, D804, &
MQA7A19, D809, MBC7A19H, D839, IPM7A20, &
MQA7A20, D805, MBC7A20V, D832, MBA7A19, &
D826, MBA7A20, D827, IPM7A21, D804, &
MQA7A21, D805, MBC7A21H, D836, MBA7A21, &
475 D826, MBA7A22, D840, IPM7A22, MQA7A22, &
D805, MBC7A22V, D834, D804, MQA7A23, &
D809, MBC7A23H, D835, IPM7A24, D804, &
MQA7A24, D805, MBC7A24V, D836, MBA7A23, &
D826, MBA7A24, D827, IPM7A25, D804, &
480 MQA7A25, D809, MBC7A25H, D837, ITV7A25, &
D825, MBA7A25, D826, MBA7A26, D827, &
IPM7A26, D804, MQA7A26, D805, MBC7A26V, &
D838, D804, MQA7A27, D809, MBC7A27H, &
D839, IPM7A28, MQA7A28, D805, MBC7A28V, &
485 D832, MBA7A27, D826, MBA7A28, D827, &
IPM7A29, D804, MQA7A29, D809, MBC7A29H, &
D833, MBA7A29, D826, MBA7A30, D840, &
IPM7A30, MQA7A30, D805, MBC7A30V, D834, &
D804, MQA7A31, D809, MBC7A31H, D835, &
490 IPM7A32, D804, MQA7A32, D805, MBC7A32V, &
D836, MBA7A31, D826, MBA7A32, D827, &
IPM7R01, D804, MQA7R01, D809, MBC7R01H, &
D837, ITV7R01, D841, IPM7R02, D804, &
MQA7R02, D805, MBC7R02V, D818, IPM7R03, &
495 D804, MQA7R03, D809, MBC7R03H, D842, &
IPM7R04, D804, MQA7R04, D843, MBC7R04V, &
D844, MQA7R05, D845, IPM7R06, D804, &
MQA7R06, D809, MBC7R06H, D846, MBC7R06V, &
D847, ITV7R06, D848, MQA7R07, D805, &
500 D849, MAC7R01, D40072, MAC7R03, D850A, &
IPM7R08, D804, MQA7R08, D881, MQA7R08A, &
D805, MBC7R08V, D810B, IPM7R09, D804, &
MQR7R09, D809, MBC7R09H, D851A, MBC7R10V, &
D808, IPM7R10, MBC7R10H, D809, MQA7R10, &
505 D804, IPM7R10, D852A, MBC7R10AH, D853A, &
MYR7R04, D40067, MAS7R05, D40066, MAQ7R06 &
)
USE, ARC7
DIMAT

* DIMAD PROGRAM : LAST MODIFIED ON May 27, 2005 *

CONVERTED FROM ../././OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//ARC7.OPT

1

TOTAL LENGTH OF MACHINE IS: 408.126 METERS

IN THIS RUN THERE ARE :
276 DISTINCT ELEMENTS. ALLOCATED MXELMD : 277
441 ELEMENTS IN MACHINE. ALLOCATED MXPOS_D : 443
102 MATRICES DEFINED. ALLOCATED MAXMAT : 103
1883 VALUES IN ELDAT. ALLOCATED MAXDAT : 1883
0 LCAVs. ALLOCATED MX_LCAV : 1

1

OPERATION LIST ,

MACHINE

1 2 1 0 1 1 1
166.638 3.45994 0 0
136.751 -1.33568 0 0
0,

ELEMENT	#	BETAX	ALPHAX	BETAY	ALPHAY	ETAX	ETAPX	ETAY	ETAPY	NUX	NUY	ACC.LEN
\$\$INITIAL\$\$	0	166.6380	3.4599	136.7510	-1.3357	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.000
MAQ7S01	1	159.6402	3.9300	139.2435	-1.5010	0.0000	0.0000	0.0249	0.0499	0.00098	0.00115	1.000
D40066	2	151.8736	3.8269	142.2726	-1.5244	0.0000	0.0000	0.0749	0.0499	0.00200	0.00229	2.002
MAS7S02	3	143.4834	4.8248	145.8595	-2.3710	0.0000	0.0000	0.1482	0.0968	0.00308	0.00339	3.004
D40067	4	135.0671	4.6748	150.0963	-2.4112	0.0000	0.0000	0.2340	0.0968	0.00409	0.00435	3.890
MYR7S03	5	108.8285	3.7063	162.9358	-1.3557	0.0000	0.0000	0.3779	-0.0019	0.00805	0.00739	6.895
D802A	6	94.3631	3.4319	168.5022	-1.3910	0.0000	0.0000	0.3740	-0.0019	0.01124	0.00934	8.921
MBC7S00H	7	94.3631	3.4319	168.5022	-1.3910	0.0000	0.0000	0.3740	-0.0019	0.01124	0.00934	8.921
D803	8	79.5034	3.1250	174.8967	-1.4305	0.0000	0.0000	0.3696	-0.0019	0.01540	0.01144	11.188
IPM7S01	9	79.5034	3.1250	174.8967	-1.4305	0.0000	0.0000	0.3696	-0.0019	0.01540	0.01144	11.188
D804	10	78.1062	3.0946	175.5403	-1.4344	0.0000	0.0000	0.3691	-0.0019	0.01585	0.01164	11.412
MQA7S01	11	84.3577	-24.6353	159.0743	54.4457	0.0000	0.0000	0.3499	-0.1250	0.01645	0.01192	11.712
D805	12	104.6276	-27.4403	119.5137	47.1898	0.0000	0.0000	0.3013	-0.1250	0.01711	0.01237	12.102
MBC7S01V	13	104.6276	-27.4403	119.5137	47.1898	0.0000	0.0000	0.3013	-0.1250	0.01711	0.01237	12.102
D806	14	134.2086	-31.0827	76.5712	37.7675	0.0000	0.0000	0.2381	-0.1250	0.01779	0.01321	12.607
ITV7S01	15	134.2086	-31.0827	76.5712	37.7675	0.0000	0.0000	0.2381	-0.1250	0.01779	0.01321	12.607
D807A	16	194.2545	-37.4010	24.6736	21.4230	0.0000	0.0000	0.1285	-0.1250	0.01865	0.01642	13.484
D808	17	209.1995	-38.8141	16.9887	17.7677	0.0000	0.0000	0.1040	-0.1250	0.01881	0.01795	13.680
MBC7S02H	18	209.1995	-38.8141	16.9887	17.7677	0.0000	0.0000	0.1040	-0.1250	0.01881	0.01795	13.680
D809	19	224.4622	-40.2060	10.8205	14.1671	0.0000	0.0000	0.0799	-0.1250	0.01895	0.02021	13.873
MQR7S02	20	202.1488	80.5977	2.2892	4.4554	0.0000	0.0000	0.0259	-0.0961	0.01931	0.03699	14.373
D804	21	167.5582	73.3776	0.7471	2.4093	0.0000	0.0000	0.0043	-0.0961	0.01950	0.06447	14.598
IPM7S02	22	167.5582	73.3776	0.7471	2.4093	0.0000	0.0000	0.0043	-0.0961	0.01950	0.06447	14.598
D810A	23	95.7170	55.4555	0.8923	-2.6698	0.0000	0.0000	-0.0493	-0.0961	0.02020	0.44481	15.155
MBC7S03V	24	95.7170	55.4555	0.8923	-2.6698	0.0000	0.0000	-0.0493	-0.0961	0.02020	0.44481	15.155
D805	25	57.4154	42.9455	4.3507	-6.2150	0.0000	0.0000	-0.0867	-0.0961	0.02104	0.47646	15.545
MQA7S03	26	40.2220	16.8499	8.0005	-5.4145	0.0000	0.0000	-0.1093	-0.0528	0.02205	0.48438	15.845
D881	27	36.9228	16.1416	9.1213	-5.7934	0.0000	0.0000	-0.1146	-0.0528	0.02247	0.48624	15.945
MQA7S03A	28	32.0926	0.6570	11.4827	-1.7309	0.0000	0.0000	-0.1227	-0.0003	0.02388	0.49081	16.245
D804	29	31.7997	0.6470	12.2780	-1.8091	0.0000	0.0000	-0.1227	-0.0003	0.02500	0.49382	16.469
IPM7S03	30	31.7997	0.6470	12.2780	-1.8091	0.0000	0.0000	-0.1227	-0.0003	0.02500	0.49382	16.469
D811A	31	31.4150	0.6336	13.3961	-1.9136	0.0000	0.0000	-0.1228	-0.0003	0.02652	0.49755	16.770
MAC7S04	32	30.2548	0.5273	17.5263	-2.2133	0.0000	0.0000	-0.1093	0.0273	0.03168	0.50794	17.770
D40072	33	27.0804	0.3794	37.1509	-3.3916	0.0000	0.0000	-0.0137	0.0273	0.05120	0.52984	21.271
MAC7S06	34	26.4182	0.2832	44.1544	-3.6060	0.0000	0.0000	0.0000	0.0000	0.05715	0.53377	22.271
D813	35	25.4273	0.1993	60.3032	-4.2574	0.0000	0.0000	0.0000	0.0000	0.06978	0.54011	24.325
MQA7S04	36	26.7984	-4.8570	59.3845	7.2607	0.0000	0.0000	0.0000	0.0000	0.07162	0.54090	24.625
D814	37	36.2240	-5.6780	47.1163	6.4514	0.0000	0.0000	0.0000	0.0000	0.07620	0.54359	25.519
ITV7S04	38	36.2240	-5.6780	47.1163	6.4514	0.0000	0.0000	0.0000	0.0000	0.07620	0.54359	25.519
D815	39	43.1272	-6.2108	39.9293	5.9261	0.0000	0.0000	0.0000	0.0000	0.07853	0.54572	26.100
IPM7S05	40	43.1272	-6.2108	39.9293	5.9261	0.0000	0.0000	0.0000	0.0000	0.07853	0.54572	26.100
D804	41	45.9640	-6.4169	37.3123	5.7229	0.0000	0.0000	0.0000	0.0000	0.07934	0.54665	26.325
MQA7S05	42	43.9273	12.9134	38.6540	-10.3847	0.0000	0.0000	0.0000	0.0000	0.08038	0.54793	26.625
D809	43	39.0813	12.1757	42.7706	-10.9286	0.0000	0.0000	0.0000	0.0000	0.08112	0.54869	26.818
MBC7S05H	44	39.0813	12.1757	42.7706	-10.9286	0.0000	0.0000	0.0000	0.0000	0.08112	0.54869	26.818
D808	45	34.4531	11.4269	47.1649	-11.4807	0.0000	0.0000	0.0000	0.0000	0.08197	0.54938	27.014
MBC7S05V	46	34.4531	11.4269	47.1649	-11.4807	0.0000	0.0000	0.0000	0.0000	0.08197	0.54938	27.014
D816	47	11.0585	6.4212	82.0995	-15.1715	0.0000	0.0000	0.0000	0.0000	0.09266	0.55273	28.325
MQA7S06	48	8.4378	2.6024	82.9530	12.4218	0.0000	0.0000	0.0000	0.0000	0.09769	0.55330	28.625
D817	49	1.4750	-0.5989	19.2250	5.9154	0.0000	0.0000	0.0000	0.0000	0.37519	0.56717	32.100
IPM7S07	50	1.4750	-0.5989	19.2250	5.9154	0.0000	0.0000	0.0000	0.0000	0.37519	0.56717	32.100
D804	51	1.7906	-0.8059	16.6617	5.4948	0.0000	0.0000	0.0000	0.0000	0.39726	0.56917	32.325
MQA7S07	52	2.3299	-0.9841	13.7190	4.3556	0.0000	0.0000	0.0000	0.0000	0.42067	0.57233	32.625
D805	53	3.2240	-1.3129	10.5488	3.7890	0.0000	0.0000	0.0000	0.0000	0.44335	0.57748	33.014
MBC7S07V	54	3.2240	-1.3129	10.5488	3.7890	0.0000	0.0000	0.0000	0.0000	0.44335	0.57748	33.014
D818A	55	18.5985	-3.8358	0.9008	-0.5580	0.0000	0.0000	0.0000	0.0000	0.50636	0.86742	36.000
IPM7S08	56	18.5985	-3.8358	0.9008	-0.5580	0.0000	0.0000	0.0000	0.0000	0.50636	0.86742	36.000
D804	57	20.3646	-4.0255	1.2250	-0.8851	0.0000	0.0000	0.0000	0.0000	0.50820	0.90172	36.225
MQR7S08	58	18.9451	6.6077	3.0297	-3.0392	0.0000	0.0000	0.0000	0.0000	0.51207	0.94544	36.725

D809	59	16.4805	6.1524	4.3298	-3.6918	0.0000	0.0000	0.0000	0.0000	0.51381	0.95393	36.918
MBC7S08H	60	16.4805	6.1524	4.3298	-3.6918	0.0000	0.0000	0.0000	0.0000	0.51381	0.95393	36.918
D808	61	14.1583	5.6901	5.9075	-4.3544	0.0000	0.0000	0.0000	0.0000	0.51585	0.96010	37.114
MBC7S08V	62	14.1583	5.6901	5.9075	-4.3544	0.0000	0.0000	0.0000	0.0000	0.51585	0.96010	37.114
D818A	63	1.1967	-1.3495	62.0412	-14.4439	0.0000	0.0000	0.0000	0.0000	0.88667	0.98503	40.100
IPM7S09	64	1.1967	-1.3495	62.0412	-14.4439	0.0000	0.0000	0.0000	0.0000	0.88667	0.98503	40.100
D804	65	1.9220	-1.8791	68.7014	-15.2029	0.0000	0.0000	0.0000	0.0000	0.91033	0.98557	40.325
MQA7S09	66	3.5531	-3.7435	70.6612	8.8961	0.0000	0.0000	0.0000	0.0000	0.92896	0.98625	40.625
D805	67	7.1076	-5.3883	63.9076	8.4546	0.0000	0.0000	0.0000	0.0000	0.94130	0.98717	41.014
MBC7S09V	68	7.1076	-5.3883	63.9076	8.4546	0.0000	0.0000	0.0000	0.0000	0.94130	0.98717	41.014
D818	69	80.6104	-18.4290	22.5254	4.9545	0.0000	0.0000	0.0000	0.0000	0.96188	1.00013	44.100
IPM7S10	70	80.6104	-18.4290	22.5254	4.9545	0.0000	0.0000	0.0000	0.0000	0.96188	1.00013	44.100
D804	71	89.1038	-19.3783	20.3566	4.6997	0.0000	0.0000	0.0000	0.0000	0.96230	1.00180	44.325
MQA7S10	72	94.2135	2.7615	19.0211	-0.1404	0.0000	0.0000	0.0000	0.0000	0.96281	1.00425	44.625
D809	73	93.1501	2.7438	19.0773	-0.1507	0.0000	0.0000	0.0000	0.0000	0.96314	1.00587	44.818
MBC7S10H	74	93.1501	2.7438	19.0773	-0.1507	0.0000	0.0000	0.0000	0.0000	0.96314	1.00587	44.818
D808	75	92.0776	2.7258	19.1385	-0.1612	0.0000	0.0000	0.0000	0.0000	0.96348	1.00750	45.014
MBC7S10V	76	92.0776	2.7258	19.1385	-0.1612	0.0000	0.0000	0.0000	0.0000	0.96348	1.00750	45.014
D819	77	29.2186	1.2943	37.2878	-0.9995	0.0000	0.0000	0.0000	0.0000	1.01221	1.10702	60.650
IPM7E01	78	29.2186	1.2943	37.2878	-0.9995	0.0000	0.0000	0.0000	0.0000	1.01221	1.10702	60.650
D804	79	28.6417	1.2737	37.7396	-1.0115	0.0000	0.0000	0.0000	0.0000	1.01345	1.10797	60.875
MQC7E01	80	28.5673	-1.0236	37.4420	1.9955	0.0000	0.0000	0.0000	0.0000	1.01513	1.10923	61.175
D809	81	28.9654	-1.0374	36.6761	1.9698	0.0000	0.0000	0.0000	0.0000	1.01620	1.11006	61.368
MBM7E01H	82	28.9654	-1.0374	36.6761	1.9698	0.0000	0.0000	0.0000	0.0000	1.01620	1.11006	61.368
D808	83	29.3750	-1.0515	35.9087	1.9437	0.0000	0.0000	0.0000	0.0000	1.01727	1.11092	61.564
MBM7E01V	84	29.3750	-1.0515	35.9087	1.9437	0.0000	0.0000	0.0000	0.0000	1.01727	1.11092	61.564
D806	85	30.4562	-1.0877	33.9778	1.8765	0.0000	0.0000	0.0000	0.0000	1.01996	1.11323	62.069
IHA7E01	86	30.4562	-1.0877	33.9778	1.8765	0.0000	0.0000	0.0000	0.0000	1.01996	1.11323	62.069
D820	87	30.9610	-1.1042	33.1205	1.8458	0.0000	0.0000	0.0000	0.0000	1.02115	1.11432	62.300
MBY7E01	88	33.1846	-1.1759	29.5609	1.7649	-0.0210	-0.0420	0.0000	0.0000	1.02611	1.11941	63.300
D821	89	46.7527	-1.5353	15.3826	1.0683	-0.2313	-0.0420	0.0000	0.0000	1.04639	1.15711	68.304
MBZ7E02	90	53.1752	-1.6788	11.5721	0.8297	-0.2313	0.0420	0.0000	0.0000	1.05277	1.18107	70.305
D821	91	71.7762	-2.0381	6.9217	0.0995	-0.0210	0.0420	0.0000	0.0000	1.06568	1.27551	75.309
MBY7E03	92	76.0545	-2.1099	6.8445	-0.0346	0.0000	0.0000	0.0000	0.0000	1.06783	1.29872	76.310
D822	93	79.9118	-2.1744	7.0253	-0.1663	0.0000	0.0000	0.0000	0.0000	1.06967	1.31944	77.210
IPM7E02	94	79.9118	-2.1744	7.0253	-0.1663	0.0000	0.0000	0.0000	0.0000	1.06967	1.31944	77.210
D804	95	80.8924	-2.1905	7.1074	-0.1991	0.0000	0.0000	0.0000	0.0000	1.07011	1.32450	77.435
MQC7E02	96	80.6285	3.0644	7.3812	-0.7195	0.0000	0.0000	0.0000	0.0000	1.07070	1.33112	77.735
D809	97	79.4495	3.0395	7.6668	-0.7593	0.0000	0.0000	0.0000	0.0000	1.07109	1.33520	77.928
MBM7E02H	98	79.4495	3.0395	7.6668	-0.7593	0.0000	0.0000	0.0000	0.0000	1.07109	1.33520	77.928
D808	99	78.2625	3.0143	7.9725	-0.7996	0.0000	0.0000	0.0000	0.0000	1.07148	1.33920	78.124
MBM7E02V	100	78.2625	3.0143	7.9725	-0.7996	0.0000	0.0000	0.0000	0.0000	1.07148	1.33920	78.124
D819	101	15.5073	0.9992	83.2488	-4.0147	0.0000	0.0000	-0.0001	0.0000	1.14556	1.44300	93.760
IPM7E03	102	15.5073	0.9992	83.2488	-4.0147	0.0000	0.0000	-0.0001	0.0000	1.14556	1.44300	93.760
D804	103	15.0649	0.9703	85.0630	-4.0609	0.0000	0.0000	-0.0001	0.0000	1.14790	1.44342	93.985
MQC7E03	104	14.9592	-0.6145	84.8293	4.8316	0.0000	0.0000	-0.0001	0.0000	1.15110	1.44398	94.285
D809	105	15.2001	-0.6323	82.9735	4.7762	0.0000	0.0000	-0.0001	0.0000	1.15314	1.44435	94.478
MBM7E03H	106	15.2001	-0.6323	82.9735	4.7762	0.0000	0.0000	-0.0001	0.0000	1.15314	1.44435	94.478
D823	107	15.5521	-0.6574	80.3871	4.6979	0.0000	0.0000	-0.0001	0.0000	1.15596	1.44488	94.751
MBM7E03V	108	15.5521	-0.6574	80.3871	4.6979	0.0000	0.0000	-0.0001	0.0000	1.15596	1.44488	94.751
D824	109	58.3038	-2.0903	3.6731	0.2326	0.0000	0.0000	0.0000	0.0000	1.24239	1.62513	110.310
IPM7A01	110	58.3038	-2.0903	3.6731	0.2326	0.0000	0.0000	0.0000	0.0000	1.24239	1.62513	110.310
D804	111	59.2476	-2.1109	3.5830	0.1681	0.0000	0.0000	0.0000	0.0000	1.24299	1.63499	110.535
MQA7A01	112	58.3359	5.1126	3.6394	-0.3583	0.0000	0.0000	0.0000	0.0000	1.24380	1.64831	110.835
D809	113	56.3782	5.0228	3.7894	-0.4182	0.0000	0.0000	0.0000	0.0000	1.24434	1.65659	111.028
MBC7A01H	114	56.3782	5.0228	3.7894	-0.4182	0.0000	0.0000	0.0000	0.0000	1.24434	1.65659	111.028
D808	115	54.4263	4.9315	3.9653	-0.4790	0.0000	0.0000	0.0000	0.0000	1.24490	1.66464	111.224
MBC7A01V	116	54.4263	4.9315	3.9653	-0.4790	0.0000	0.0000	0.0000	0.0000	1.24490	1.66464	111.224
D806	117	49.5598	4.6964	4.5288	-0.6357	0.0000	0.0000	0.0000	0.0000	1.24645	1.68367	111.729
ITV7A01	118	49.5598	4.6964	4.5288	-0.6357	0.0000	0.0000	0.0000	0.0000	1.24645	1.68367	111.729
D825	119	42.1596	4.3143	5.7821	-0.8904	0.0000	0.0000	0.0000	0.0000	1.24931	1.70932	112.551
MBA7A01	120	20.5020	2.9154	13.8307	-1.7779	0.1472	0.0983	0.0000	0.0000	1.26556	1.76379	115.552
D826	121	9.1080	1.7945	24.1932	-2.5057	0.3849	0.0983	0.0001	0.0000	1.29389	1.78490	117.971
MBA7A02	122	2.5166	0.4058	41.6133	-3.2694	0.8268	0.1967	0.0001	0.0000	1.40153	1.79997	120.972
D827	123	2.3355	-0.2844	51.9895	-3.6884	1.1201	0.1967	0.0001	0.0000	1.50698	1.80508	122.464
IPM7A02	124	2.3355	-0.2844	51.9895	-3.6884	1.1201	0.1967	0.0001	0.0000	1.50698	1.80508	122.464
D804	125	2.4866	-0.3883	53.6609	-3.7515	1.1643	0.1967	0.0001	0.0000	1.52183	1.80575	122.688
MQA7A02	126	2.9044	-1.0287	53.0652	5.7017	1.2547	0.4093	0.0001	0.0000	1.53980	1.80664	122.988
D809	127	3.3282	-1.1656	50.8862	5.5798	1.3338	0.4093	0.0001	0.0000	1.54969	1.80723	123.181
MBC7A02V	128	3.3282	-1.1656	50.8862	5.5798	1.3338	0.4093	0.0001	0.0000	1.54969	1.80723	123.181
D828	129	3.9917	-1.3524	47.9895	5.4134	1.4417	0.4093	0.0001	0.0000	1.56121	1.80808	123.445
D829	130	16.3012	-3.2484	23.5429	3.7238	2.5367	0.4093	0.0001	0.0000	1.61501	1.82076	126.120
IPM7A03	131	16.3012	-3.2484	23.5429	3.7238	2.5367	0.4093	0.0001	0.0000	1.61501	1.82076	126.120
D804	132	17.7965	-3.4077	21.9016	3.5820	2.6287	0.4093	0.0001	0.0000	1.61711	1.82234	126.345
MQA7A03	133	18.0918	2.4556	21.8759	-3.4935	2.6223	-0.4516	0.0001	0.0000	1.61973	1.82455	126.645
D809	134	17.1577	2.3806	23.2479	-3.6101	2.5351	-0.4516	0.0001	0.0000	1.62147	1.82592	126.838
MBC7A03H	135	17.1577	2.3806	23.2479	-3.6101	2.5351	-0.4516	0.0001	0.0000	1.62147	1.82592	126.838
D830	136	15.2350	2.2181	26.3721	-3.8624	2.3463	-0.4516	0.0001	0.0000	1.62559	1.82860	127.256
IHA7A03	137	15.2350	2.2181	26.3721	-3.8624	2.3463	-0.4516	0.0001	0.0000	1.62559	1.82860	127.256
D831	138	6.5211	1.2385	49.6818	-5.3841	1.2078	-0.4516	0.0001	0.0000	1.66629	1.83970	129.777
IPM7A04	139	6.5211	1.2385	49.6818	-5.3841	1.2078	-0.4516	0.0001	0.0000	1.66629	1.83970	129.777
D804	140	5.9842	1.1512	52.1313	-5.5197	1.1064	-0.4516	0.0001	0.0000	1.67201	1.84040	130.002
MQA7A04	141	5.6271	0.0603	52.6677	3.7635	0.9991	-0.2665	0.0001	0.0000	1.68032	1.84130	130.302
D805	142	5.6072	-0.0092	49.7815	3.6514	0.8954	-0.2665	0.				

MBC7A06V	163	6.9389	-1.3025	47.9337	5.2857	1.2822	0.4516	-0.0001	0.0000	2.07446	2.19414	154.998
D834	164	17.0080	-2.3684	23.4792	3.6297	2.5208	0.4516	0.0000	0.0000	2.11508	2.20717	157.741
IPM7A07	165	17.0080	-2.3684	23.4792	3.6297	2.5208	0.4516	0.0000	0.0000	2.11508	2.20717	157.741
D804	166	18.0918	-2.4557	21.8789	3.4941	2.6223	0.4516	0.0000	0.0000	2.11712	2.20874	157.966
MQA7A07	167	17.7966	3.4076	21.9045	-3.5823	2.6287	-0.4093	0.0000	0.0000	2.11974	2.21096	158.266
D809	168	16.5067	3.2707	23.3119	-3.7042	2.5496	-0.4093	0.0000	0.0000	2.12153	2.21232	158.459
MBC7A07H	169	16.5067	3.2707	23.3119	-3.7042	2.5496	-0.4093	0.0000	0.0000	2.12153	2.21232	158.459
D835	170	3.4026	1.1880	50.5404	-5.5602	1.3467	-0.4093	-0.0001	0.0000	2.18567	2.22596	161.398
IPM7A08	171	3.4026	1.1880	50.5404	-5.5602	1.3467	-0.4093	-0.0001	0.0000	2.18567	2.22596	161.398
D804	172	2.9046	1.0288	53.0705	-5.7021	1.2547	-0.4093	-0.0001	0.0000	2.19705	2.22666	161.622
MQA7A08	173	2.4869	0.3883	53.6660	3.7520	1.1642	-0.1967	-0.0001	0.0000	2.21501	2.22754	161.922
D805	174	2.2547	0.2082	50.7877	3.6427	1.0877	-0.1967	-0.0001	0.0000	2.24130	2.22873	162.312
MBC7A08V	175	2.2547	0.2082	50.7877	3.6427	1.0877	-0.1967	-0.0001	0.0000	2.24130	2.22873	162.312
D836	176	2.5167	-0.4057	41.6167	3.2699	0.8268	-0.1967	-0.0001	0.0000	2.33531	2.23332	163.638
MBA7A07	177	9.1073	-1.7943	24.1942	2.5060	0.3849	-0.0983	-0.0001	0.0000	2.44296	2.24840	166.640
D826	178	20.5001	-2.9151	13.8305	1.7781	0.1472	-0.0983	0.0000	0.0000	2.47128	2.26951	169.059
MBA7A08	179	42.1556	-4.3139	5.7813	0.8904	0.0000	0.0000	0.0000	0.0000	2.48754	2.32397	172.060
D827	180	56.0569	-5.0076	3.8152	0.4279	0.0000	0.0000	0.0000	0.0000	2.49242	2.37540	173.551
IPM7A09	181	56.0569	-5.0076	3.8152	0.4279	0.0000	0.0000	0.0000	0.0000	2.49242	2.37540	173.551
D804	182	58.3303	-5.1121	3.6386	0.3583	0.0000	0.0000	0.0000	0.0000	2.49304	2.38500	173.776
MQA7A09	183	58.3303	5.1114	3.6384	-0.3575	0.0000	0.0000	0.0000	0.0000	2.49386	2.39826	174.076
D809	184	56.3733	5.0216	3.7881	-0.4174	0.0000	0.0000	0.0000	0.0000	2.49439	2.40654	174.269
MBC7A09H	185	56.3733	5.0216	3.7881	-0.4174	0.0000	0.0000	0.0000	0.0000	2.49439	2.40654	174.269
D837	186	49.5564	4.6953	4.5263	-0.6349	0.0000	0.0000	0.0000	0.0000	2.49650	2.43364	174.971
ITV7A09	187	49.5564	4.6953	4.5263	-0.6349	0.0000	0.0000	0.0000	0.0000	2.49650	2.43364	174.971
D825	188	42.1579	4.3134	5.7782	-0.8894	0.0000	0.0000	0.0000	0.0000	2.49936	2.45931	175.792
MBA7A09	189	20.5043	2.9150	13.8205	-1.7768	0.1472	0.0983	0.0000	0.0000	2.51561	2.51381	178.793
D826	190	9.1113	1.7945	24.1772	-2.5044	0.3849	0.0983	0.0000	0.0000	2.54393	2.53493	181.212
MBA7A10	191	2.5185	0.4063	41.5891	-2.6280	0.8268	-0.1967	0.0000	0.0000	2.65150	2.55002	184.213
D827	192	2.3354	-0.2836	51.9611	-3.6869	1.1201	0.1967	0.0000	0.0000	2.75691	2.55512	185.705
IPM7A10	193	2.3354	-0.2836	51.9611	-3.6869	1.1201	0.1967	0.0000	0.0000	2.75691	2.55512	185.705
D804	194	2.4862	-0.3875	53.6318	-3.7500	1.1643	0.1967	0.0000	0.0000	2.77177	2.55580	185.929
MQA7A10	195	2.9034	-1.0277	53.0368	5.6981	1.2548	0.4093	0.0000	0.0000	2.78974	2.55669	186.229
D805	196	3.8108	-1.3034	48.6965	5.4525	1.4141	0.4093	0.0000	0.0000	2.80840	2.55791	186.619
MBC7A10V	197	3.8108	-1.3034	48.6965	5.4525	1.4141	0.4093	0.0000	0.0000	2.80840	2.55791	186.619
D838	198	16.2890	-3.2459	23.5327	3.7216	2.5368	0.4093	0.0000	0.0000	2.86500	2.57082	189.362
D804	199	17.7832	-3.4050	21.8924	3.5798	2.6287	0.4093	0.0000	0.0000	2.86710	2.57239	189.586
MQA7A11	200	18.0782	2.4539	21.8671	-3.4927	2.6223	-0.4516	0.0000	0.0000	2.86972	2.57461	189.886
D809	201	17.1447	2.3788	23.2389	-3.6093	2.5351	-0.4516	0.0000	0.0000	2.87146	2.57598	190.079
MBC7A11H	202	17.1447	2.3788	23.2389	-3.6093	2.5351	-0.4516	0.0000	0.0000	2.87146	2.57598	190.079
D839	203	5.9804	1.1501	52.1175	-5.5189	1.1064	-0.4516	0.0000	0.0000	2.92204	2.59046	193.243
IPM7A12	204	5.9804	1.1501	52.1175	-5.5189	1.1064	-0.4516	0.0000	0.0000	2.92204	2.59046	193.243
MQA7A12	205	5.6237	0.0598	52.6541	3.7618	0.9991	-0.2665	0.0000	0.0000	2.93035	2.59137	193.543
D805	206	5.6042	-0.0097	49.7692	3.6498	0.8954	-0.2665	0.0000	0.0000	2.94139	2.59258	193.932
MBC7A12V	207	5.6042	-0.0097	49.7692	3.6498	0.8954	-0.2665	0.0000	0.0000	2.94139	2.59258	193.932
D832	208	5.9440	-0.2465	40.5911	3.2680	0.5418	-0.2665	0.0000	0.0000	2.97831	2.59728	195.259
MBA7A11	209	9.0290	-0.7834	23.2516	2.4803	-0.1095	-0.1682	0.0000	0.0000	3.04538	2.61285	198.260
D826	210	13.8650	-1.2157	13.0511	1.7362	-0.5164	-0.1682	0.0000	0.0000	3.08006	2.63502	200.679
MBA7A12	211	22.7699	-1.7569	5.3201	0.8268	-0.8735	-0.0701	0.0000	0.0000	3.10704	2.69365	203.681
D827	212	28.4094	-2.0246	3.5580	0.3548	-0.9781	-0.0701	0.0000	0.0000	3.11637	2.74934	205.172
IPM7A13	213	28.4094	-2.0246	3.5580	0.3548	-0.9781	-0.0701	0.0000	0.0000	3.11637	2.74934	205.172
D804	214	29.3281	-2.0649	3.4145	0.2837	-0.9939	-0.0701	0.0000	0.0000	3.11761	2.75960	205.396
MQA7A13	215	29.3281	2.0648	3.4144	-0.2835	-0.9939	0.0701	0.0000	0.0000	3.11923	2.77370	205.696
D805	216	27.7478	1.9950	3.6831	-0.4067	-0.9666	0.0701	0.0000	0.0000	3.12140	2.79121	206.086
MBC7A13H	217	27.7478	1.9950	3.6831	-0.4067	-0.9666	0.0701	0.0000	0.0000	3.12140	2.79121	206.086
D836	218	22.7702	1.7569	5.3191	-0.8265	-0.8735	0.0701	0.0000	0.0000	3.12980	2.83966	207.412
MBA7A13	219	13.8655	1.2157	13.0482	-1.7359	-0.5164	0.1682	0.0000	0.0000	3.15678	2.89830	210.414
D826	220	9.0296	0.7834	23.2468	-2.4799	-0.1095	0.1682	0.0000	0.0000	3.19146	2.92048	212.833
MBA7A14	221	5.9445	0.2465	40.5835	-3.2676	0.5418	0.2665	0.0001	0.0000	3.25853	2.93606	215.834
D840	222	5.6240	-0.0597	52.6446	-3.7613	0.9991	0.2665	0.0001	0.0000	3.30648	2.94197	217.550
IPM7A14	223	5.6240	-0.0597	52.6446	-3.7613	0.9991	0.2665	0.0001	0.0000	3.30648	2.94197	217.550
MQA7A14	224	5.9807	-1.1501	52.1081	5.5178	1.1064	0.4516	0.0001	0.0000	3.31479	2.94287	217.850
D805	225	6.9348	-1.3013	47.9041	5.2829	1.2821	0.4516	0.0001	0.0000	3.32442	2.94411	218.239
MBC7A14V	226	6.9348	-1.3013	47.9041	5.2829	1.2821	0.4516	0.0001	0.0000	3.32442	2.94411	218.239
D834	227	16.9953	-2.3665	23.4632	3.6276	2.5208	0.4516	0.0000	0.0000	3.36507	2.95715	220.982
D804	228	18.0782	-2.4538	21.8638	3.4920	2.6223	0.4516	0.0000	0.0000	3.36711	2.95872	221.207
MQA7A15	229	17.7831	3.4051	21.8892	-3.5795	2.6287	-0.4093	0.0000	0.0000	3.36973	2.96094	221.507
D809	230	16.4942	3.2683	23.2955	-3.7014	2.5496	-0.4093	0.0000	0.0000	3.37152	2.96230	221.700
MBC7A15H	231	16.4942	3.2683	23.2955	-3.7014	2.5496	-0.4093	0.0000	0.0000	3.37152	2.96230	221.700
D835	232	3.4007	1.1868	50.5029	-5.5559	1.3467	-0.4093	0.0000	0.0000	3.43570	2.97596	224.639
IPM7A16	233	3.4007	1.1868	50.5029	-5.5559	1.3467	-0.4093	0.0000	0.0000	3.43570	2.97596	224.639
D804	234	2.9032	1.0277	53.0310	-5.6977	1.2547	-0.4093	0.0000	0.0000	3.44709	2.97665	224.864
MQA7A16	235	2.4860	0.3875	53.6260	3.7494	1.1642	-0.1967	0.0000	0.0000	3.46506	2.97754	225.164
D805	236	2.2544	0.2074	50.7498	3.6401	1.0877	-0.1967	0.0000	0.0000	3.49135	2.97872	225.553
MBC7A16V	237	2.2544	0.2074	50.7498	3.6401	1.0877	-0.1967	0.0000	0.0000	3.49135	2.97872	225.553
D836	238	2.5184	-0.4064	41.5853	3.2675	0.8268	-0.1967	0.0000	0.0000	3.58534	2.98332	226.880
MBA7A15	239	9.1120	-1.7947	24.1759	2.5040	0.3849	-0.0983	0.0000	0.0000	3.69291	2.99841	229.881
D826	240	20.5062	-2.9153	13.8206	1.7765	0.1472	-0.0983	0.0000	0.0000	3.72122	3.01953	232.300
MBA7A16	241	42.1620	-4.3138	5.7790	0.8894	0.0000	0.0000	0.0000	0.0000	3.73747	3.07403	235.301
D827	242	56.0629	-5.0074	3.8155	0.4272	0.0000	0.0000	0.0000	0.0000	3.74235	3.12547	236.792
IPM7A17	243	56.0629	-5.0074	3.8155	0.4272	0.0000	0.0000	0.0000	0.0000	3.74235	3.12547	236.792
D804	244	58.3362	-5.1119	3.6392	0.3576	0.0000	0.0000	0.0000	0.0000	3.74298	3.13507	237.017
MQA7A17	245	58.3359	5.1126	3.6394	-0.3583	0.0000	0.0000	0.0000	0.0000	3.74379	3.14832	237.317
D809	246	56.3783										

MQA7A20	267	5.6271	0.0603	52.6675	3.7635	0.9991	-0.2665	-0.0001	0.0000	4.18030	3.34132	256.784
D805	268	5.6072	-0.0092	49.7814	3.6514	0.8954	-0.2665	-0.0001	0.0000	4.19134	3.34253	257.173
MBC7A20V	269	5.6072	-0.0092	49.7814	3.6514	0.8954	-0.2665	-0.0001	0.0000	4.19134	3.34253	257.173
D832	270	5.9455	-0.2458	40.5992	3.2694	0.5418	-0.2665	-0.0001	0.0000	4.22824	3.34722	258.500
MBA7A19	271	9.0255	-0.7824	23.2528	2.4812	-0.1095	-0.1682	-0.0001	0.0000	4.29532	3.36279	261.501
D826	272	13.8564	-1.2145	13.0490	1.7367	-0.5164	-0.1682	0.0000	0.0000	4.33002	3.38497	263.920
MBA7A20	273	22.7532	-1.7554	5.3168	0.8267	-0.8735	-0.0701	0.0000	0.0000	4.35701	3.44362	266.922
D827	274	28.3880	-2.0230	3.5553	0.3545	-0.9781	-0.0701	0.0000	0.0000	4.36636	3.49935	268.413
IPM7A21	275	28.3880	-2.0230	3.5553	0.3545	-0.9781	-0.0701	0.0000	0.0000	4.36636	3.49935	268.413
D804	276	29.3060	-2.0633	3.4120	0.2834	-0.9939	-0.0701	0.0000	0.0000	4.36760	3.50962	268.638
MQA7A21	277	29.3060	2.0634	3.4120	-0.2836	-0.9939	0.0701	0.0000	0.0000	4.36922	3.52373	268.938
D805	278	27.7269	1.9935	3.6808	-0.4069	-0.9666	0.0701	0.0000	0.0000	4.37139	3.54125	269.327
MBC7A21H	279	27.7269	1.9935	3.6808	-0.4069	-0.9666	0.0701	0.0000	0.0000	4.37139	3.54125	269.327
D836	280	22.7529	1.7555	5.3177	-0.8270	-0.8735	0.0701	0.0000	0.0000	4.37980	3.58972	270.654
MBA7A21	281	13.8557	1.2145	13.0518	-1.7371	-0.5164	0.1682	0.0000	0.0000	4.40679	3.64837	273.655
D826	282	9.0248	0.7824	23.2575	-2.4817	-0.1095	0.1682	0.0000	0.0000	4.44150	3.67054	276.074
MBA7A22	283	5.9448	0.2457	40.6067	-3.2699	0.5418	0.2665	0.0001	0.0000	4.50858	3.68610	279.075
D840	284	5.6267	-0.0603	52.6766	-3.7640	0.9991	0.2665	0.0001	0.0000	4.55652	3.69201	280.791
IPM7A22	285	5.6267	-0.0603	52.6766	-3.7640	0.9991	0.2665	0.0001	0.0000	4.55652	3.69201	280.791
MQA7A22	286	5.9838	-1.1512	52.1400	5.5207	1.1064	0.4516	0.0001	0.0000	4.56483	3.69291	281.091
D805	287	6.9389	-1.3025	47.9337	5.2857	1.2821	0.4516	0.0001	0.0000	4.57445	3.69415	281.480
MBC7A22V	288	6.9389	-1.3025	47.9337	5.2857	1.2821	0.4516	0.0001	0.0000	4.57445	3.69415	281.480
D834	289	17.0080	-2.3684	23.4792	3.6297	2.5208	0.4516	0.0000	0.0000	4.61507	3.70718	284.223
D804	290	18.0918	-2.4557	21.8789	3.4941	2.6223	0.4516	0.0000	0.0000	4.61711	3.70876	284.448
MQA7A23	291	17.7966	3.4076	21.9045	-3.5823	2.6287	-0.4093	0.0000	0.0000	4.61973	3.71097	284.748
D809	292	16.5067	3.2707	23.3119	-3.7042	2.5496	-0.4093	0.0000	0.0000	4.62152	3.71233	284.941
MBC7A23H	293	16.5067	3.2707	23.3119	-3.7042	2.5496	-0.4093	0.0000	0.0000	4.62152	3.71233	284.941
D835	294	3.4026	1.1880	50.5404	-5.5602	1.3467	-0.4093	0.0001	0.0000	4.68566	3.72598	287.880
IPM7A24	295	3.4026	1.1880	50.5404	-5.5602	1.3467	-0.4093	0.0001	0.0000	4.68566	3.72598	287.880
D804	296	2.9046	1.0288	53.0705	-5.7021	1.2547	-0.4093	0.0001	0.0000	4.69704	3.72667	288.105
MQA7A24	297	2.4869	0.3883	53.6660	3.7520	1.1642	-0.1967	0.0001	0.0000	4.71500	3.72755	288.405
D805	298	2.2547	0.2082	50.7877	3.6427	1.0877	-0.1967	0.0001	0.0000	4.74128	3.72874	288.794
MBC7A24V	299	2.2547	0.2082	50.7877	3.6427	1.0877	-0.1967	0.0001	0.0000	4.74128	3.72874	288.794
D836	300	2.5167	-0.4057	41.6167	3.2699	0.8268	-0.1967	0.0001	0.0000	4.83530	3.73333	290.121
MBA7A23	301	9.1073	-1.7943	24.1942	2.5060	0.3849	-0.0983	0.0001	0.0000	4.94294	3.74841	293.122
D826	302	20.5001	-2.9151	13.8305	1.7781	0.1472	-0.0983	0.0000	0.0000	4.97127	3.76952	295.541
MBA7A24	303	42.1556	-4.3139	5.7813	0.8904	0.0000	0.0000	0.0000	0.0000	4.98752	3.82399	298.542
D827	304	56.0569	-5.0076	3.8152	0.4279	0.0000	0.0000	0.0000	0.0000	4.99241	3.87541	300.034
IPM7A25	305	56.0569	-5.0076	3.8152	0.4279	0.0000	0.0000	0.0000	0.0000	4.99241	3.87541	300.034
D804	306	58.3303	-5.1121	3.6386	0.3583	0.0000	0.0000	0.0000	0.0000	4.99303	3.88502	300.258
MQA7A25	307	58.3305	5.1114	3.6384	-0.3575	0.0000	0.0000	0.0000	0.0000	4.99384	3.89827	300.558
D809	308	56.3733	5.0216	3.7881	-0.4174	0.0000	0.0000	0.0000	0.0000	4.99438	3.90655	300.751
MBC7A25H	309	56.3733	5.0216	3.7881	-0.4174	0.0000	0.0000	0.0000	0.0000	4.99438	3.90655	300.751
D837	310	49.5564	4.6953	4.5263	-0.6349	0.0000	0.0000	0.0000	0.0000	4.99649	3.93365	301.453
ITV7A25	311	49.5564	4.6953	4.5263	-0.6349	0.0000	0.0000	0.0000	0.0000	4.99649	3.93365	301.453
D825	312	42.1579	4.3134	5.7782	-0.8894	0.0000	0.0000	0.0000	0.0000	4.99935	3.95932	302.274
MBA7A25	313	20.5043	2.9150	13.8205	-1.7768	0.1472	0.0983	0.0000	0.0000	5.01560	4.01382	305.275
D826	314	9.1113	1.7945	24.1722	-2.5044	0.3849	0.0983	0.0000	0.0000	5.04392	4.03495	307.695
MBA7A26	315	2.5185	0.4063	41.5891	-3.2680	0.8268	0.1967	0.0000	0.0000	5.15149	4.05003	310.696
D827	316	2.3354	-0.2836	51.9611	-3.6869	1.1201	0.1967	0.0000	0.0000	5.25690	4.05514	312.187
IPM7A26	317	2.3354	-0.2836	51.9611	-3.6869	1.1201	0.1967	0.0000	0.0000	5.25690	4.05514	312.187
D804	318	2.4862	-0.3875	53.6318	-3.7500	1.1643	0.1967	0.0000	0.0000	5.27176	4.05581	312.412
MQA7A26	319	2.9034	-1.0277	53.0368	5.6981	1.2547	0.4093	0.0000	0.0000	5.28972	4.05670	312.712
D805	320	3.8108	-1.3034	48.6965	5.4525	1.4141	0.4093	0.0000	0.0000	5.30839	4.05792	313.101
MBC7A26V	321	3.8108	-1.3034	48.6965	5.4525	1.4141	0.4093	0.0000	0.0000	5.30839	4.05792	313.101
D838	322	16.2890	-3.2459	23.5327	3.7216	2.5367	0.4093	0.0000	0.0000	5.36499	4.07083	315.844
D804	323	17.7832	-3.4050	21.8924	3.5798	2.6287	0.4093	0.0000	0.0000	5.36709	4.07241	316.069
MQA7A27	324	18.0782	2.4539	21.8671	-3.4927	2.6223	-0.4516	0.0000	0.0000	5.36971	4.07462	316.369
D809	325	17.1447	2.3788	23.2389	-3.6093	2.5351	-0.4516	0.0000	0.0000	5.37145	4.07599	316.562
MBC7A27H	326	17.1447	2.3788	23.2389	-3.6093	2.5351	-0.4516	0.0000	0.0000	5.37145	4.07599	316.562
D839	327	5.9804	1.1501	52.1175	-5.5189	1.1064	-0.4516	0.0000	0.0000	5.42202	4.09047	319.725
IPM7A28	328	5.9804	1.1501	52.1175	-5.5189	1.1064	-0.4516	0.0000	0.0000	5.42202	4.09047	319.725
MQA7A28	329	5.6237	0.0598	52.6541	3.7618	0.9991	-0.2665	0.0000	0.0000	5.43033	4.09138	320.025
D805	330	5.6042	-0.0097	49.7692	3.6498	0.8954	-0.2665	0.0000	0.0000	5.44138	4.09259	320.415
MBC7A28V	331	5.6042	-0.0097	49.7692	3.6498	0.8954	-0.2665	0.0000	0.0000	5.44138	4.09259	320.415
D832	332	5.9440	-0.2465	40.5911	3.2680	0.5418	-0.2665	0.0000	0.0000	5.47829	4.09729	321.741
MBA7A27	333	9.0290	-0.7834	23.2516	2.4803	-0.1095	-0.1682	0.0000	0.0000	5.54537	4.11286	324.743
D826	334	13.8650	-1.2157	13.0511	1.7362	-0.5164	-0.1682	0.0000	0.0000	5.58005	4.13503	327.162
MBA7A28	335	22.7699	-1.7569	5.3201	0.8268	-0.8735	-0.0701	0.0000	0.0000	5.60702	4.19367	330.163
D827	336	28.4094	-2.0246	3.5580	0.3548	-0.9781	-0.0701	0.0000	0.0000	5.61636	4.24935	331.654
IPM7A29	337	28.4094	-2.0246	3.5580	0.3548	-0.9781	-0.0701	0.0000	0.0000	5.61636	4.24935	331.654
D804	338	29.3281	-2.0649	3.4145	0.2837	-0.9939	-0.0701	0.0000	0.0000	5.61760	4.25961	331.879
MQA7A29	339	29.3281	2.0648	3.4144	-0.2835	-0.9939	0.0701	0.0000	0.0000	5.61922	4.27371	332.179
D809	340	28.5371	2.0302	3.5358	-0.3446	-0.9803	0.0701	0.0000	0.0000	5.62028	4.28257	332.372
MBC7A29H	341	28.5371	2.0302	3.5358	-0.3446	-0.9803	0.0701	0.0000	0.0000	5.62028	4.28257	332.372
D833	342	22.7702	1.7569	5.3191	-0.8265	-0.8735	0.0701	0.0000	0.0000	5.62979	4.33967	333.895
MBA7A29	343	13.8655	1.2157	13.0482	-1.7359	-0.5164	0.1682	0.0000	0.0000	5.65676	4.39832	336.896
D826	344	9.0296	0.7834	23.2467	-2.4799	-0.1095	0.1682	0.0000	0.0000	5.69145	4.42049	339.315
MBA7A30	345	5.9445	0.2465	40.5835	-3.2676	0.5418	0.2665	-0.0001	0.0000	5.75851	4.43607	342.316
D840	346	5.6240	-0.0597	52.6446	-3.7613	0.9991	0.2665	-0.0001	0.0000	5.80647	4.44198	344.032
IPM7A30	347	5.6240	-0.0597	52.6446	-3.7613	0.9991	0.2665	-0.0001	0.0000	5.80647	4.44198	344.032
MQA7A30	348	5.9807	-1.1501	52.1081	5.5178	1.1064	0.4516	-0.0001	0.0000	5.81478	4.44288	344.732
D805	349	6.9348	-1.3013	47.9041	5.2829	1.2822	0.4516	-0.0001	0.0000	5.82440	4.44412	344.722
MBC7A30V	350	6.9348	-1.301									

MBC7R01H	371	53.3715	9.1961	3.9904	-0.7243	0.0000	0.0000	0.0000	0.0000	6.24434	4.65620	363.993
D837	372	41.2575	8.0713	5.1947	-0.9923	0.0000	0.0000	0.0000	0.0000	6.24672	4.68083	364.694
ITV7R01	373	41.2575	8.0713	5.1947	-0.9923	0.0000	0.0000	0.0000	0.0000	6.24672	4.68083	364.694
D841	374	10.2763	3.9339	12.8605	-1.9782	0.0000	0.0000	0.0000	0.0000	6.26672	4.73195	367.275
IPM7R02	375	10.2763	3.9339	12.8605	-1.9782	0.0000	0.0000	0.0000	0.0000	6.26672	4.73195	367.275
D804	376	8.5897	3.5737	13.7686	-2.0641	0.0000	0.0000	0.0000	0.0000	6.27053	4.73464	367.499
MQA7R02	377	6.8728	2.2230	14.4829	-0.2863	0.0000	0.0000	0.0000	0.0000	6.27678	4.73800	367.799
D805	378	5.2732	1.8865	14.7171	-0.3153	0.0000	0.0000	0.0000	0.0000	6.28708	4.74224	368.189
MBC7R02V	379	5.2732	1.8865	14.7171	-0.3153	0.0000	0.0000	0.0000	0.0000	6.28708	4.74224	368.189
D818	380	1.8632	-0.7816	17.3750	-0.5459	0.0000	0.0000	0.0000	0.0000	6.56509	4.77315	371.275
IPM7R03	381	1.8632	-0.7816	17.3750	-0.5459	0.0000	0.0000	0.0000	0.0000	6.56509	4.77315	371.275
D804	382	2.2580	-0.9758	17.6240	-0.5627	0.0000	0.0000	0.0000	0.0000	6.58255	4.77520	371.499
MQA7R03	383	2.8984	-1.1528	18.1219	-1.1017	0.0000	0.0000	0.0000	0.0000	6.60123	4.77787	371.799
D809	384	3.3737	-1.3080	18.5521	-1.1253	0.0000	0.0000	0.0000	0.0000	6.61107	4.77955	371.993
MBC7R03H	385	3.3737	-1.3080	18.5521	-1.1253	0.0000	0.0000	0.0000	0.0000	6.61107	4.77955	371.993
D842	386	20.6157	-3.9452	27.2551	-1.5263	0.0000	0.0000	0.0001	0.0000	6.67545	4.80286	375.275
IPM7R04	387	20.6157	-3.9452	27.2551	-1.5263	0.0000	0.0000	0.0001	0.0000	6.67545	4.80286	375.275
D804	388	22.4289	-4.1257	27.9470	-1.5537	0.0000	0.0000	0.0001	0.0000	6.67711	4.80416	375.499
MQA7R04	389	24.9056	-4.1218	28.9746	-1.8750	0.0000	0.0000	0.0001	0.0000	6.67913	4.80584	375.799
D843	390	29.4889	-4.5055	31.0108	-1.9578	0.0000	0.0000	0.0001	0.0000	6.68225	4.80866	376.331
MBC7R04V	391	29.4889	-4.5055	31.0108	-1.9578	0.0000	0.0000	0.0001	0.0000	6.68225	4.80866	376.331
D844	392	65.2954	-6.7943	44.9834	-2.4517	0.0000	0.0000	0.0001	0.0000	6.69375	4.82218	379.499
MQA7R05	393	64.9752	7.8378	49.6192	-13.3447	0.0000	0.0000	0.0001	0.0000	6.69448	4.82320	379.799
D845	394	43.9397	6.4202	96.8513	-18.6695	0.0000	0.0000	0.0001	0.0000	6.69887	4.82659	381.275
IPM7R06	395	43.9397	6.4202	96.8513	-18.6695	0.0000	0.0000	0.0001	0.0000	6.69887	4.82659	381.275
D804	396	41.1036	6.2043	105.4217	-19.4803	0.0000	0.0000	0.0001	0.0000	6.69972	4.82694	381.499
MQA7R06	397	42.0162	-9.3603	105.0660	20.6207	0.0000	0.0000	0.0001	0.0000	6.70089	4.82738	381.799
D809	398	45.7107	-9.7677	97.2515	19.8372	0.0000	0.0000	0.0001	0.0000	6.70159	4.82769	381.993
MBC7R06H	399	45.7107	-9.7677	97.2515	19.8372	0.0000	0.0000	0.0001	0.0000	6.70159	4.82769	381.993
D846	400	51.9611	-10.4207	85.3572	18.5813	0.0000	0.0000	0.0001	0.0000	6.70260	4.82823	382.302
MBC7R06V	401	51.9611	-10.4207	85.3572	18.5813	0.0000	0.0000	0.0001	0.0000	6.70260	4.82823	382.302
D847	402	60.4538	-11.2473	71.4145	16.9913	0.0000	0.0000	0.0001	0.0000	6.70371	4.82903	382.694
ITV7R06	403	60.4538	-11.2473	71.4145	16.9913	0.0000	0.0000	0.0001	0.0000	6.70371	4.82903	382.694
D848	404	79.9366	-12.9458	46.6791	13.7245	0.0000	0.0000	0.0001	0.0000	6.70556	4.83125	383.499
MQA7R07	405	82.4421	4.7767	41.5730	3.6654	0.0000	0.0000	0.0001	0.0000	6.70614	4.83234	383.799
D805	406	78.7673	4.6643	38.7722	3.5302	0.0000	0.0000	0.0001	0.0000	6.70691	4.83389	384.189
D849	407	64.0409	4.1834	27.9823	2.9523	0.0000	0.0000	0.0001	0.0000	6.71064	4.84193	385.853
MAC7R01	408	55.9395	3.9158	22.4170	2.6128	0.0000	0.0000	-0.0136	-0.0273	6.71330	4.84829	386.853
D40072	409	32.0983	2.8935	8.4006	1.3904	0.0000	0.0000	-0.1093	-0.0273	6.72646	4.88935	390.354
MAC7R03	410	26.5918	2.6115	5.9669	1.0433	0.0000	0.0000	-0.1230	0.0000	6.73191	4.91190	391.354
D850A	411	25.5676	2.5532	5.5669	0.9739	0.0000	0.0000	-0.1230	0.0000	6.73312	4.91738	391.553
IPM7R08	412	25.5676	2.5532	5.5669	0.9739	0.0000	0.0000	-0.1230	0.0000	6.73312	4.91738	391.553
D804	413	24.4353	2.4872	5.1470	0.8952	0.0000	0.0000	-0.1230	0.0000	6.73455	4.92406	391.777
MQA7R08	414	25.7675	-7.0964	4.1118	2.4224	0.0000	0.0000	-0.1160	0.0462	6.73649	4.93425	392.077
D881	415	27.2067	-7.2957	3.6441	2.2554	0.0000	0.0000	-0.1114	0.0462	6.73709	4.93836	392.177
MQA7R08A	416	35.4523	-21.2598	2.1267	2.6024	0.0000	0.0000	-0.0913	0.0863	6.73866	4.95521	392.477
D805	417	53.9385	-26.2332	0.6545	1.1798	0.0000	0.0000	-0.0577	0.0863	6.74008	5.00872	392.867
MBC7R08V	418	53.9385	-26.2332	0.6545	1.1798	0.0000	0.0000	-0.0577	0.0863	6.74008	5.00872	392.867
D810B	419	118.2374	-38.8553	1.8901	-2.4306	0.0000	0.0000	0.0276	0.0863	6.74205	5.33470	393.855
IPM7R09	420	118.2374	-38.8553	1.8901	-2.4306	0.0000	0.0000	0.0276	0.0863	6.74205	5.33470	393.855
D804	421	136.3399	-41.7257	3.1666	-3.2516	0.0000	0.0000	0.0470	0.0863	6.74233	5.34933	394.079
MQR7R09	422	144.5442	26.6481	8.7722	-8.8406	0.0000	0.0000	0.0977	0.1203	6.74287	5.36507	394.579
D809	423	134.4335	25.6979	12.5240	-10.5834	0.0000	0.0000	0.1209	0.1203	6.74309	5.36800	394.772
MBC7R09H	424	134.4335	25.6979	12.5240	-10.5834	0.0000	0.0000	0.1209	0.1203	6.74309	5.36800	394.772
D851A	425	67.3416	18.1743	65.9961	-24.3826	0.0000	0.0000	0.3049	0.1203	6.74565	5.37647	396.302
MBC7R10V	426	67.3416	18.1743	65.9961	-24.3826	0.0000	0.0000	0.3049	0.1203	6.74565	5.37647	396.302
D808	427	60.4032	17.2096	75.9054	-26.1520	0.0000	0.0000	0.3285	0.1203	6.74614	5.37691	396.498
IPM7R10	428	60.4032	17.2096	75.9054	-26.1520	0.0000	0.0000	0.3285	0.1203	6.74614	5.37691	396.498
MBC7R10H	429	60.4032	17.2096	75.9054	-26.1520	0.0000	0.0000	0.3285	0.1203	6.74614	5.37691	396.498
D809	430	53.9386	16.2593	86.3445	-27.8948	0.0000	0.0000	0.3517	0.1203	6.74668	5.37729	396.691
MQA7R10	431	49.4375	-0.7698	94.6314	1.1778	0.0000	0.0000	0.3702	0.0018	6.74762	5.37781	396.991
D804	432	49.7850	-0.7771	94.1035	1.1721	0.0000	0.0000	0.3706	0.0018	6.74834	5.37819	397.215
IPM7R10	433	49.7850	-0.7771	94.1035	1.1721	0.0000	0.0000	0.3706	0.0018	6.74834	5.37819	397.215
D852A	434	52.4747	-0.8309	90.2528	1.1299	0.0000	0.0000	0.3735	0.0018	6.75355	5.38108	398.888
MBC7R10A	435	52.4747	-0.8309	90.2528	1.1299	0.0000	0.0000	0.3735	0.0018	6.75355	5.38108	398.888
D853A	436	56.5456	-0.9064	85.0962	1.0708	0.0000	0.0000	0.3776	0.0018	6.76040	5.38534	401.231
MYR7R04	437	63.4258	-1.2027	76.6477	1.4789	0.0000	0.0000	0.2337	-0.0966	6.76841	5.39123	404.236
D40067	438	65.5871	-1.2368	74.0598	1.4421	0.0000	0.0000	0.1481	-0.0966	6.77060	5.39310	405.122
MA57R05	439	67.5438	-0.8504	71.6767	1.0961	0.0000	0.0000	0.0749	0.0000	6.77299	5.39529	406.125
D40066	440	69.2722	-0.8759	69.5126	1.0654	0.0000	0.0000	0.0249	-0.0499	6.77532	5.39755	407.126
MAQ7R06	441	70.7568	-0.7809	67.5358	1.0814	0.0000	0.0000	0.0000	0.0000	6.77760	5.39987	408.126

MAXIMUM LATTICE FUNCTIONS :
 BETA X = 0.2244622046E+03 BETA Y = 0.1755402823E+03
 ETA X = 0.2628704640E+01 ETA Y = 0.3778919978E+00

1
 OPERATION LIST ,

MATRIX

1 -1,

AFTER :MAQ7R06 ELEMENT #: 441

 * TRANSFORMATION MATRIX *

FIRST ORDER MATRIX

- -0.2108340E+01 -0.1069569E+03 0.7707044E-14 0.2776619E-13 0.0000000E+00 -0.1152218E-05
 - -0.8699018E-02 -0.9156113E+00 0.8815748E-16 -0.4481531E-15 0.0000000E+00 0.1201332E-06
 - -0.5389964E-14 -0.5195988E-13 -0.1120541E+01 0.5654977E+02 0.0000000E+00 0.1986525E-05
 - 0.2169512E-15 0.3186384E-14 0.2305776E-01 -0.2056070E+01 0.0000000E+00 0.4099182E-06
 - -0.2633048E-06 -0.1390406E-04 -0.5051350E-06 0.2726522E-04 0.1000000E+01 0.1525791E-02
 - 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.1000000E+01

HORIZONTAL MOVEMENT ANALYSIS

COMPACTION FACTOR = 0.3738526E-05 GAMMA TR = 0.5171896E+03

MOVEMENT IS UNSTABLE

HALF-TRACE = -0.15119757476639E+01
 EIGENVALUE1 = -0.37792519256337E+00
 WITH EIGENVECTOR :
 X = 0.99986915184480E+00 XP = -0.16176501141007E-01
 EIGENVALUE2 = -0.26460263027645E+01
 WITH EIGENVECTOR :
 X = 0.99998736423023E+00 XP = 0.50270647374128E-02

VERTICAL MOVEMENT ANALYSIS

MOVEMENT IS UNSTABLE

HALF-TRACE = -0.15883056771665E+01
 EIGENVALUE1 = -0.35432232066637E+00
 WITH EIGENVECTOR :
 Y = -0.99990821873339E+00 YP = -0.13548214252038E-01
 EIGENVALUE2 = -0.28222890336666E+01
 WITH EIGENVECTOR :
 Y = -0.99954751527990E+00 YP = 0.30079306803645E-01

1

OPERATION LIST ,

HARDWARE

7.75249 4178.82 80.6 100 90.5537 0 0.0 0 1 0 :

VALUES ARE FOR ENERGY : 0.775E+01 GEV

THE LENGTHS ARE MEASURED IN METERS ,THE ANGLES IN DEGREES

THE SXYZ COORDINATES ,AZIMUTH,ELEVATION AND ROLL ANGLES ARE :

#	NAME	S	X	Y	Z	THETA	PHI	PSI
1	MAQ7S01	4179.8204100000	80.6000000000	100.0249389150	91.5536954167	0.0000000000	2.8572100000	0.0000000000
2	D40066	4180.8216500000	80.6000000000	100.0748477815	92.5536907380	0.0000000000	2.8572100000	0.0000000000
3	MAS7S02	4181.8244000000	80.6000000000	100.1479167992	93.5536857765	0.0000000000	5.5010700000	0.0000000000
4	D40067	4182.7103650000	80.6000000000	100.2328492506	94.4355703834	0.0000000000	5.5010700000	0.0000000000
5	MYR7S03	4185.7149750000	80.6000000000	100.3769777269	97.4355662882	0.0000000000	0.0000100000	0.0000000000
6	D802A	4187.7414750000	80.6000000000	100.3769780806	99.4620662882	0.0000000000	0.0000100000	0.0000000000
7	MBC7S00H	4187.7414750100	80.6000000000	100.3769780806	99.4620662882	0.0000000000	0.0000100000	0.0000000000
8	D803	4190.0077650100	80.6000000000	100.3769784761	101.7283562982	0.0000000000	0.0000100000	0.0000000000
9	IPM7S01	4190.0077650100	80.6000000000	100.3769784761	101.7283562982	0.0000000000	0.0000100000	0.0000000000
10	D804	4190.2324150100	80.6000000000	100.3769785153	101.9530062982	0.0000000000	0.0000100000	0.0000000000
11	MQA7S01	4190.5324150100	80.6000000000	100.3769785677	102.2530062982	0.0000000000	0.0000100000	0.0000000000
12	D805	4190.9216550100	80.6000000000	100.3769786356	102.6422462982	0.0000000000	0.0000100000	0.0000000000
13	MBC7S01V	4190.9216550200	80.6000000000	100.3769786356	102.6422463082	0.0000000000	0.0000100000	0.0000000000
14	D806	4191.4271150200	80.6000000000	100.3769787238	103.1477063082	0.0000000000	0.0000100000	0.0000000000
15	ITV7S01	4191.4271150200	80.6000000000	100.3769787238	103.1477063082	0.0000000000	0.0000100000	0.0000000000
16	D807A	4192.3039050200	80.6000000000	100.3769788769	104.0244963082	0.0000000000	0.0000100000	0.0000000000
17	D808	4192.4999950200	80.6000000000	100.3769789111	104.2205863082	0.0000000000	0.0000100000	0.0000000000
18	MBC7S02H	4192.4999950300	80.6000000000	100.3769789111	104.2205863182	0.0000000000	0.0000100000	0.0000000000
19	D809	4192.6931450300	80.6000000000	100.3769789448	104.4137363182	0.0000000000	0.0000100000	0.0000000000
20	MQR7S02	4193.1931450300	80.6000000000	100.3769790321	104.9137363182	0.0000000000	0.0000100000	0.0000000000
21	D804	4193.4177950300	80.6000000000	100.3769790713	105.1383863182	0.0000000000	0.0000100000	0.0000000000
22	IPM7S02	4193.4177950300	80.6000000000	100.3769790713	105.1383863182	0.0000000000	0.0000100000	0.0000000000
23	D810A	4193.9754250300	80.6000000000	100.3769791686	105.6960163182	0.0000000000	0.0000100000	0.0000000000
24	MBC7S03V	4193.9754250400	80.6000000000	100.3769791686	105.6960163282	0.0000000000	0.0000100000	0.0000000000
25	D805	4194.3646650400	80.6000000000	100.3769792365	106.0852563282	0.0000000000	0.0000100000	0.0000000000
26	MQA7S03	4194.6646650400	80.6000000000	100.3769792889	106.3852563282	0.0000000000	0.0000100000	0.0000000000
27	D881	4194.7646650400	80.6000000000	100.3769793064	106.4852563282	0.0000000000	0.0000100000	0.0000000000
28	MQA7S03A	4195.0646650400	80.6000000000	100.3769793587	106.7852563282	0.0000000000	0.0000100000	0.0000000000
29	D804	4195.2893150400	80.6000000000	100.3769793979	107.0099063282	0.0000000000	0.0000100000	0.0000000000
30	IPM7S03	4195.2893150400	80.6000000000	100.3769793979	107.0099063282	0.0000000000	0.0000100000	0.0000000000
31	D811A	4195.5896650400	80.6000000000	100.3769794504	107.3102563282	0.0000000000	0.0000100000	0.0000000000
32	MAC7S04	4196.5896950400	80.6000000000	100.3906457229	108.3101618105	0.0000000000	1.5660800000	0.0000000000
33	D40072	4200.0910050400	80.6000000000	100.4863359965	111.8101639659	0.0000000000	1.5660800000	0.0000000000
34	MAC7S06	4201.0910350400	80.6000000000	100.5000022691	112.8100694483	0.0000000000	0.0000100000	0.0000000000
35	D813	4203.1447050400	80.6000000000	100.5000026275	114.8637394483	0.0000000000	0.0000100000	0.0000000000
36	MQA7S04	4203.4447050400	80.6000000000	100.5000026799	115.1637394483	0.0000000000	0.0000100000	0.0000000000
37	D814	4204.3394050400	80.6000000000	100.5000028360	116.0584394483	0.0000000000	0.0000100000	0.0000000000
38	ITV7S04	4204.3394050400	80.6000000000	100.5000028360	116.0584394483	0.0000000000	0.0000100000	0.0000000000
39	D815	4204.9200550400	80.6000000000	100.5000029374	116.6390894483	0.0000000000	0.0000100000	0.0000000000
40	IPM7S05	4204.9200550400	80.6000000000	100.5000029374	116.6390894483	0.0000000000	0.0000100000	0.0000000000
41	D804	4205.1447050400	80.6000000000	100.5000029766	116.8637394483	0.0000000000	0.0000100000	0.0000000000
42	MQA7S05	4205.4447050400	80.6000000000	100.5000030289	117.1637394483	0.0000000000	0.0000100000	0.0000000000
43	D809	4205.6378550400	80.6000000000	100.5000030627	117.3568894483	0.0000000000	0.0000100000	0.0000000000
44	MBC7S05H	4205.6378550500	80.6000000000	100.5000030627	117.3568894583	0.0000000000	0.0000100000	0.0000000000
45	D808	4205.8339450500	80.6000000000	100.5000030969	117.5529794583	0.0000000000	0.0000100000	0.0000000000
46	MBC7S05V	4205.8339450600	80.6000000000	100.5000030969	117.5529794683	0.0000000000	0.0000100000	0.0000000000
47	D816	4207.1447050600	80.6000000000	100.5000033256	118.8637394683	0.0000000000	0.0000100000	0.0000000000
48	MQA7S06	4207.4447050600	80.6000000000	100.5000033780	119.1637394683	0.0000000000	0.0000100000	0.0000000000
49	D817	4210.9200550600	80.6000000000	100.5000039846	122.6390894683	0.0000000000	0.0000100000	0.0000000000
50	IPM7S07	4210.9200550600	80.6000000000	100.5000039846	122.6390894683	0.0000000000	0.0000100000	0.0000000000
51	D804	4211.1447050600	80.6000000000	100.5000040238	122.8637394683	0.0000000000	0.0000100000	0.0000000000
52	MQA7S07	4211.4447050600	80.6000000000	100.5000040761	123.1637394683	0.0000000000	0.0000100000	0.0000000000
53	D805	4211.8339450600	80.6000000000	100.5000041441	123.5529794683	0.0000000000	0.0000100000	0.0000000000
54	MBC7S07V	4211.8339450700	80.6000000000	100.5000041441	123.5529794783	0.0000000000	0.0000100000	0.0000000000
55	D818A	4214.8200550700	80.6000000000	100.5000046652	126.5390894783	0.0000000000	0.0000100000	0.0000000000
56	IPM7S08	4214.8200550700	80.6000000000	100.5000046652	126.5390894783	0.0000000000	0.0000100000	0.0000000000

57	D804	4215.0447050700	80.6000000000	100.5000047045	126.7637394783	0.0000000000	0.0000100000	0.0000000000
58	MQR7S08	4215.5447050700	80.6000000000	100.5000047917	127.2637394783	0.0000000000	0.0000100000	0.0000000000
59	D809	4215.7378550700	80.6000000000	100.5000048254	127.4568894783	0.0000000000	0.0000100000	0.0000000000
60	MBC7S08H	4215.7378550800	80.6000000000	100.5000048254	127.4568894883	0.0000000000	0.0000100000	0.0000000000
61	D808	4215.9339450800	80.6000000000	100.5000048597	127.6529794883	0.0000000000	0.0000100000	0.0000000000
62	MBC7S08V	4215.9339450900	80.6000000000	100.5000048597	127.6529794983	0.0000000000	0.0000100000	0.0000000000
63	D818A	4218.9200550900	80.6000000000	100.5000053808	130.6390894983	0.0000000000	0.0000100000	0.0000000000
64	IPM7S09	4218.9200550900	80.6000000000	100.5000053808	130.6390894983	0.0000000000	0.0000100000	0.0000000000
65	D804	4219.1447050900	80.6000000000	100.5000054200	130.8637394983	0.0000000000	0.0000100000	0.0000000000
66	MQA7S09	4219.1447050900	80.6000000000	100.5000054724	131.1637394983	0.0000000000	0.0000100000	0.0000000000
67	D805	4219.8339450900	80.6000000000	100.5000055403	131.5529794983	0.0000000000	0.0000100000	0.0000000000
68	MBC7S09V	4219.8339451000	80.6000000000	100.5000055403	131.5529795083	0.0000000000	0.0000100000	0.0000000000
69	D818	4222.9200551000	80.6000000000	100.5000060790	134.6390895083	0.0000000000	0.0000100000	0.0000000000
70	IPM7S10	4222.9200551000	80.6000000000	100.5000060790	134.6390895083	0.0000000000	0.0000100000	0.0000000000
71	D804	4223.1447051000	80.6000000000	100.5000061182	134.8637395083	0.0000000000	0.0000100000	0.0000000000
72	MQA7S10	4223.1447051000	80.6000000000	100.5000061705	135.1637395083	0.0000000000	0.0000100000	0.0000000000
73	D809	4223.6378551000	80.6000000000	100.5000062042	135.3568895083	0.0000000000	0.0000100000	0.0000000000
74	MBC7S10H	4223.6378551100	80.6000000000	100.5000062042	135.3568895183	0.0000000000	0.0000100000	0.0000000000
75	D808	4223.8339451100	80.6000000000	100.5000062385	135.5529795183	0.0000000000	0.0000100000	0.0000000000
76	MBC7S10V	4223.8339451200	80.6000000000	100.5000062385	135.5529795283	0.0000000000	0.0000100000	0.0000000000
77	D819	4239.4700451200	80.6000000000	100.5000089675	151.1890795283	0.0000000000	0.0000100000	0.0000000000
78	IPM7E01	4239.4700451200	80.6000000000	100.5000089675	151.1890795283	0.0000000000	0.0000100000	0.0000000000
79	D804	4239.6946951200	80.6000000000	100.5000090067	151.4137295283	0.0000000000	0.0000100000	0.0000000000
80	MQC7E01	4239.6946951200	80.6000000000	100.5000090591	151.7137295283	0.0000000000	0.0000100000	0.0000000000
81	D809	4240.1878451200	80.6000000000	100.5000090928	151.9068795283	0.0000000000	0.0000100000	0.0000000000
82	MBM7E01H	4240.1878451300	80.6000000000	100.5000090928	151.9068795383	0.0000000000	0.0000100000	0.0000000000
83	D808	4240.3839351300	80.6000000000	100.5000091270	152.1029695383	0.0000000000	0.0000100000	0.0000000000
84	MBM7E01V	4240.3839351400	80.6000000000	100.5000091270	152.1029695483	0.0000000000	0.0000100000	0.0000000000
85	D806	4240.8893951400	80.6000000000	100.5000092152	152.6084295483	0.0000000000	0.0000100000	0.0000000000
86	IHA7E01	4240.8893951400	80.6000000000	100.5000092152	152.6084295483	0.0000000000	0.0000100000	0.0000000000
87	D820	4241.1196951400	80.6000000000	100.5000092554	152.8387295483	0.0000000000	0.0000100000	0.0000000000
88	MBY7E01	4242.1199851400	80.6210000900	100.5000094299	153.8387255702	2.4060900000	0.0000099912	-0.0000004198
89	D821	4247.1244051400	80.8310949129	100.5000103026	158.8387335408	2.4060900000	0.0000099912	-0.0000004198
90	MBZ7E02	4249.1249951400	80.8310949129	100.5000106517	160.8387355818	-2.4060900000	0.0000099912	0.0000004198
91	D821	4254.1294151400	80.6210000900	100.5000115243	165.8387435524	-2.4060900000	0.0000099912	0.0000004198
92	MBY7E03	4255.1297051400	80.6000000000	100.5000116989	166.8387395744	0.0000000000	0.0000100000	0.0000000000
93	D822	4256.0300511400	80.6000000000	100.5000118560	167.7390855744	0.0000000000	0.0000100000	0.0000000000
94	IPM7E02	4256.0300511400	80.6000000000	100.5000118560	167.7390855744	0.0000000000	0.0000100000	0.0000000000
95	D804	4256.2547011400	80.6000000000	100.5000118952	167.9637355744	0.0000000000	0.0000100000	0.0000000000
96	MQC7E02	4256.2547011400	80.6000000000	100.5000119476	168.2637355744	0.0000000000	0.0000100000	0.0000000000
97	D809	4256.7478511400	80.6000000000	100.5000119813	168.4568855744	0.0000000000	0.0000100000	0.0000000000
98	MBM7E02H	4256.7478511500	80.6000000000	100.5000119813	168.4568855844	0.0000000000	0.0000100000	0.0000000000
99	D808	4256.9439411500	80.6000000000	100.5000120155	168.6529755844	0.0000000000	0.0000100000	0.0000000000
100	MBM7E02V	4256.9439411600	80.6000000000	100.5000120155	168.6529755944	0.0000000000	0.0000100000	0.0000000000
101	D819	4272.58000411600	80.6000000000	100.5000147445	184.2890755944	0.0000000000	0.0000100000	0.0000000000
102	IPM7E03	4272.58000411600	80.6000000000	100.5000147445	184.2890755944	0.0000000000	0.0000100000	0.0000000000
103	D804	4272.8046911600	80.6000000000	100.5000147837	184.5137255944	0.0000000000	0.0000100000	0.0000000000
104	MQC7E03	4273.1046911600	80.6000000000	100.5000148361	184.8137255944	0.0000000000	0.0000100000	0.0000000000
105	D809	4273.2978411600	80.6000000000	100.5000148698	185.0068755944	0.0000000000	0.0000100000	0.0000000000
106	MBM7E03H	4273.2978411700	80.6000000000	100.5000148698	185.0068756044	0.0000000000	0.0000100000	0.0000000000
107	D823	4273.5708411700	80.6000000000	100.5000149175	185.2798756044	0.0000000000	0.0000100000	0.0000000000
108	MBM7E03V	4273.5708411800	80.6000000000	100.5000149175	185.2798756144	0.0000000000	0.0000100000	0.0000000000
109	D824	4289.1300411800	80.6000000000	100.5000176330	200.8390756144	0.0000000000	0.0000100000	0.0000000000
110	IPM7A01	4289.1300411800	80.6000000000	100.5000176330	200.8390756144	0.0000000000	0.0000100000	0.0000000000
111	D804	4289.3546911800	80.6000000000	100.5000176723	201.0637256144	0.0000000000	0.0000100000	0.0000000000
112	MQA7A01	4289.3546911800	80.6000000000	100.5000177246	201.3637256144	0.0000000000	0.0000100000	0.0000000000
113	D809	4289.8478411800	80.6000000000	100.5000177583	201.5568756144	0.0000000000	0.0000100000	0.0000000000
114	MBC7A01H	4289.8478411900	80.6000000000	100.5000177583	201.5568756244	0.0000000000	0.0000100000	0.0000000000
115	D808	4290.0439311900	80.6000000000	100.5000177925	201.7529656244	0.0000000000	0.0000100000	0.0000000000
116	MBC7A01V	4290.0439312000	80.6000000000	100.5000177925	201.7529656344	0.0000000000	0.0000100000	0.0000000000
117	D806	4290.5493912000	80.6000000000	100.5000178808	202.2584256344	0.0000000000	0.0000100000	0.0000000000
118	ITV7A01	4290.5493912000	80.6000000000	100.5000178808	202.2584256344	0.0000000000	0.0000100000	0.0000000000
119	D825	4291.3706512000	80.6000000000	100.5000180241	203.0796856344	0.0000000000	0.0000100000	0.0000000000
120	MBA7A01	4294.3718612000	80.4527969992	100.5000185471	206.0760768878	-5.6249900000	0.0000099518	0.0000009802
121	D826	4296.7910012000	80.2156802345	100.5000189673	208.4835681089	-5.6249900000	0.0000099518	0.0000009802
122	MBA7A02	4299.79221212000	79.7754888723	100.5000194852	211.4511025791	-11.2499800000	0.0000098079	0.0000019509
123	D827	4301.2835212000	79.4845492347	100.5000197405	212.9137575772	-11.2499800000	0.0000098079	0.0000019509
124	IPM7A02	4301.2835212000	79.4845492347	100.5000197405	212.9137575772	-11.2499800000	0.0000098079	0.0000019509
125	D804	4301.5081712000	79.4407222708	100.5000197789	213.1340910057	-11.2499800000	0.0000098079	0.0000019509
126	MQA7A02	4301.8081712000	79.3821952769	100.5000198303	213.4283266102	-11.2499800000	0.0000098079	0.0000019509
127	D809	4302.0013212000	79.3445136473	100.5000198633	213.6177653003	-11.2499800000	0.0000098079	0.0000019509
128	MBC7A02V	4302.0013212100	79.3445136454	100.5000198633	213.6177653101	-11.2499800000	0.0000098079	0.0000019509
129	D828	4302.2648212100	79.2931074357	100.5000199085	213.8762022495	-11.2499800000	0.0000098079	0.0000019509
130	D829	4304.9403312100	78.7711422443	100.5000203664	216.5003032572	-11.2499800000	0.0000098079	0.0000019509
131	IPM7A03	4304.9403312100	78.7711422443	100.5000203664	216.5003032572	-11.2499800000	0.0000098079	0.0000019509
132	D804	4305.1649812100	78.7273152803	100.5000204049	216.7206366858	-11.2499800000	0.0000098079	0.0000019509
133	MQA7A03	4305.1649812100	78.6687882864	100.5000204563	217.0148722903	-11.2499800000	0.0000098079	0.0000019509
134	D809	4305.6581312100	78.6311066569	100.5000204893	217.2043109804	-11.2499800000	0.0000098079	0.0000019509
135	MBC7A03H	4305.6581312200	78.6311066549	100.5000204893	217.2043109902	-11.2499800000	0.0000098079	0.0000019509
136	D830	4306.0762212200	78.5495414853	100.5000205609	217.6143675365	-11.2499800000	0.0000098079	0.0000019509
137	IHA7A03	4306.0762212200	78.5495414853	100.5000205609	217.6143675365	-11.2499800000	0.0000098079	0.0000019509
138	D831	4308.5971412200	78.0577352538	100.5000209924	220.0868489373	-11.2499800000	0.0000098079	0.0000019509
139	IPM7A04	4308.5971412200	78.057735					

161	MQA7A06	4333.4287612400	68.6652712369	100.5000249700	242.8768383981	-33.7499400000	0.0000083147	0.0000055557
162	D805	4333.8180012400	68.4490214184	100.5000250265	243.2004798565	-33.7499400000	0.0000083147	0.0000055557
163	MBC7A06V	4333.8180012500	68.4490214128	100.5000250265	243.2004798648	-33.7499400000	0.0000083147	0.0000055557
164	D834	4336.5609312500	66.9251335418	100.5000254246	245.4811444043	-33.7499400000	0.0000083147	0.0000055557
165	IPM7A07	4336.5609312500	66.9251335418	100.5000254246	245.4811444043	-33.7499400000	0.0000083147	0.0000055557
166	D804	4336.7855812500	66.8003248846	100.5000254572	246.0679341834	-33.7499400000	0.0000083147	0.0000055557
167	MQA7A07	4337.0855812500	66.6336540759	100.5000255007	245.9173752416	-33.7499400000	0.0000083147	0.0000055557
168	D809	4337.2787312500	66.5263458536	100.5000255287	246.0779737096	-33.7499400000	0.0000083147	0.0000055557
169	MBC7A07H	4337.2787312600	66.5263458480	100.5000255287	246.0779737179	-33.7499400000	0.0000083147	0.0000055557
170	D835	4340.2177512600	64.8935163808	100.5000259552	248.5216812478	-33.7499400000	0.0000083147	0.0000055557
171	IPM7A08	4340.2177512600	64.8935163808	100.5000259552	248.5216812478	-33.7499400000	0.0000083147	0.0000055557
172	D804	4340.4424012600	64.7687077236	100.5000259878	248.5084710269	-33.7499400000	0.0000083147	0.0000055557
173	MQA7A08	4340.7424012600	64.6020369149	100.5000260314	248.9579120851	-33.7499400000	0.0000083147	0.0000055557
174	D805	4341.1316412600	64.3857870963	100.5000260879	249.2815535434	-33.7499400000	0.0000083147	0.0000055557
175	MBC7A08V	4341.1316412700	64.3857870907	100.5000260879	249.2815535518	-33.7499400000	0.0000083147	0.0000055557
176	D836	4342.4583612700	63.6487021064	100.5000262804	250.3846816877	-33.7499400000	0.0000083147	0.0000055557
177	MBA7A07	4345.4595712700	61.8616040208	100.5000267009	252.7943102274	-39.3749300000	0.0000077301	0.0000063439
178	D826	4347.8787112700	60.3269201360	100.5000270273	254.6643326106	-39.3749300000	0.0000077301	0.0000063439
179	MBA7A08	4350.8799212700	58.3122429054	100.5000274153	256.8871922381	-44.9999200000	0.0000070711	0.0000070711
180	D827	4352.3712312700	57.2577289639	100.5000275993	257.9417091243	-44.9999200000	0.0000070711	0.0000070711
181	IPM7A09	4352.3712312700	57.2577289639	100.5000275993	257.9417091243	-44.9999200000	0.0000070711	0.0000070711
182	D804	4352.5958812700	57.0988776474	100.5000276271	258.1005608845	-44.9999200000	0.0000070711	0.0000070711
183	MQA7A09	4352.8958812700	56.8867459092	100.5000276641	258.3126932151	-44.9999200000	0.0000070711	0.0000070711
184	D809	4353.0890312700	56.7501684251	100.5000276879	258.4492710806	-44.9999200000	0.0000070711	0.0000070711
185	MBC7A09H	4353.0890312800	56.7501684180	100.5000276879	258.4492710876	-44.9999200000	0.0000070711	0.0000070711
186	D837	4353.7905812800	56.2540983483	100.5000277745	258.9453425426	-44.9999200000	0.0000070711	0.0000070711
187	ITV7A09	4353.7905812800	56.2540983483	100.5000277745	258.9453425426	-44.9999200000	0.0000070711	0.0000070711
188	D825	4354.6118412800	55.6733806441	100.5000278759	259.5260618686	-44.9999200000	0.0000070711	0.0000070711
189	MBA7A09	4357.6130512800	53.4505266426	100.5000282275	261.5407453065	-50.6249100000	0.0000063439	0.0000077301
190	D826	4360.0321912800	51.5805085451	100.5000284953	263.0754344134	-50.6249100000	0.0000063439	0.0000077301
191	MBA7A10	4363.0334012800	49.1708849959	100.5000288072	264.8625392279	-56.2499000000	0.0000055557	0.0000083147
192	D827	4364.5247112800	47.9309074944	100.5000289519	265.6910688363	-56.2499000000	0.0000055557	0.0000083147
193	IPM7A10	4364.5247112800	47.9309074944	100.5000289519	265.6910688363	-56.2499000000	0.0000055557	0.0000083147
194	D804	4364.7493612800	47.7441180638	100.5000289736	265.8158780152	-56.2499000000	0.0000055557	0.0000083147
195	MQA7A10	4365.0493612800	47.4946774710	100.5000290027	265.9825495204	-56.2499000000	0.0000055557	0.0000083147
196	D805	4365.4386012800	47.1710366166	100.5000290405	266.1988002428	-56.2499000000	0.0000055557	0.0000083147
197	MBC7A10V	4365.4386012900	47.1710366082	100.5000290405	266.1988002484	-56.2499000000	0.0000055557	0.0000083147
198	D838	4368.1815212900	44.8903846390	100.5000293064	267.7226889324	-56.2499000000	0.0000055557	0.0000083147
199	D804	4368.4061712900	44.7035952084	100.5000293282	267.8474981113	-56.2499000000	0.0000055557	0.0000083147
200	MQA7A11	4368.7061712900	44.4541546156	100.5000293573	268.0141696165	-56.2499000000	0.0000055557	0.0000083147
201	D809	4368.8993212900	44.2935564473	100.5000293760	268.1214782873	-56.2499000000	0.0000055557	0.0000083147
202	MBC7A11H	4368.8993213000	44.2935564389	100.5000293760	268.1214782929	-56.2499000000	0.0000055557	0.0000083147
203	D839	4372.0629813000	41.6630723529	100.5000296828	269.8791182073	-56.2499000000	0.0000055557	0.0000083147
204	IPM7A12	4372.0629813000	41.6630723529	100.5000296828	269.8791182073	-56.2499000000	0.0000055557	0.0000083147
205	MQA7A12	4372.3629813000	41.4136317602	100.5000297119	270.0457897126	-56.2499000000	0.0000055557	0.0000083147
206	D805	4372.7522213000	41.0899909057	100.5000297496	270.2620404350	-56.2499000000	0.0000055557	0.0000083147
207	MBC7A12V	4372.7522213100	41.0899909874	100.5000297496	270.2620404405	-56.2499000000	0.0000055557	0.0000083147
208	D832	4374.0789513100	39.9868565051	100.5000298783	270.9991340611	-56.2499000000	0.0000055557	0.0000083147
209	MBA7A11	4377.0801613100	37.4136693177	100.5000301475	272.5414495170	-61.8748900000	0.0000047140	0.0000088192
210	D826	4379.4993013100	35.2801804996	100.5000303465	273.6818283150	-61.8748900000	0.0000047140	0.0000088192
211	MBA7A12	4382.5005113100	32.5682107852	100.5000305704	274.9645011241	-67.4998800000	0.0000038269	0.0000092388
212	D827	4383.9918213100	31.1904211948	100.5000306700	275.5352036392	-67.4998800000	0.0000038269	0.0000092388
213	IPM7A13	4383.9918213100	31.1904211948	100.5000306700	275.5352036392	-67.4998800000	0.0000038269	0.0000092388
214	D804	4384.2164713100	30.9828718379	100.5000306850	276.1217139700	-67.4998800000	0.0000038269	0.0000092388
215	MQA7A13	4384.5164713100	30.7057082186	100.5000307050	275.7359795172	-67.4998800000	0.0000038269	0.0000092388
216	D805	4384.9057113100	30.3460976613	100.5000307310	275.8849359696	-67.4998800000	0.0000038269	0.0000092388
217	MBC7A13H	4384.9057113200	30.3460976521	100.5000307310	275.8849359734	-67.4998800000	0.0000038269	0.0000092388
218	D836	4386.2324313200	29.1203692621	100.5000308196	276.3926523040	-67.4998800000	0.0000038269	0.0000092388
219	MBA7A13	4389.2336413200	26.2957346787	100.5000309960	277.4033296698	-73.1248700000	0.000029029	0.0000095694
220	D826	4391.6527813200	23.9807636283	100.5000311186	278.1055741965	-73.1248700000	0.000029029	0.0000095694
221	MBA7A14	4394.6539913200	21.0706668546	100.5000312458	278.8345227782	-78.7498600000	0.000019509	0.0000098078
222	D840	4396.3699413200	19.3876891707	100.5000313042	279.1692921285	-78.7498600000	0.000019509	0.0000098078
223	IPM7A14	4396.3699413200	19.3876891707	100.5000313042	279.1692921285	-78.7498600000	0.000019509	0.0000098078
224	MQA7A14	4396.6699413200	19.0934537295	100.5000313145	279.2278199441	-78.7498600000	0.000019509	0.0000098078
225	D805	4397.0591813200	18.7116930526	100.5000313277	279.3037578338	-78.7498600000	0.000019509	0.0000098078
226	MBC7A14V	4397.0591813300	18.7116930427	100.5000313277	279.3037578358	-78.7498600000	0.000019509	0.0000098078
227	D834	4399.8021113300	16.0214689811	100.5000314211	279.8388835062	-78.7498600000	0.000019509	0.0000098078
228	D804	4400.0267613300	15.8011356750	100.5000314288	279.8827110854	-78.7498600000	0.000019509	0.0000098078
229	MQA7A15	4400.3267613300	15.5069020239	100.5000314390	279.9412389010	-78.7498600000	0.000019509	0.0000098078
230	D809	4400.5199113300	15.3174616490	100.5000314456	279.9789210596	-78.7498600000	0.000019509	0.0000098078
231	MBC7A15H	4400.5199113400	15.3174616392	100.5000314456	279.9789210615	-78.7498600000	0.000019509	0.0000098078
232	D835	4403.4589313400	12.4349154854	100.5000315456	280.5523024631	-78.7498600000	0.000019509	0.0000098078
233	IPM7A16	4403.4589313400	12.4349154854	100.5000315456	280.5523024631	-78.7498600000	0.000019509	0.0000098078
234	D804	4403.6835813400	12.2145821793	100.5000315533	280.5961300423	-78.7498600000	0.000019509	0.0000098078
235	MQA7A16	4403.9835813400	11.9203467382	100.5000315635	280.6546578579	-78.7498600000	0.000019509	0.0000098078
236	D805	4404.3728213400	11.5385860612	100.5000315767	280.7305957477	-78.7498600000	0.000019509	0.0000098078
237	MBC7A16V	4404.3728213500	11.5385860514	100.5000315767	280.7305957496	-78.7498600000	0.000019509	0.0000098078
238	D836	4405.6995413500	10.2373592366	100.5000316219	280.9894291611	-78.7498600000	0.000019509	0.0000098078
239	MBA7A15	4408.7007513500	7.2698259956	100.5000316987	281.4296288102	-84.3748500000	0.000009802	0.0000099518
240	D826	4411.1198913500	4.8623354367	100.5000317401	281.6667522979	-84.3748500000	0.000009802	0.0000099518
241	MBA7A16	4414.1211013500	1.8659445944	100.5000317658	281.8139636662	-89.9998400000	0.000000000	0.0000100000
242	D827	4415.6124113500	0.3746345944	100.5000317658	281.8139678308	-89.9998400000	0.000000000	0.

265	D839	4435.3041613800	-19.0934793687	100.5000313145	279.2279304859	-101.2498200000	-0.0000019509	0.0000098079
266	IPM7A20	4435.3041613800	-19.0934793687	100.5000313145	279.2279304859	-101.2498200000	-0.0000019509	0.0000098079
267	MQA7A20	4435.6041613800	-19.3877151367	100.5000313043	279.1694043136	-101.2498200000	-0.0000019509	0.0000098079
268	D805	4435.9934013900	-19.7694762378	100.5000312910	279.0934685560	-101.2498200000	-0.0000019509	0.0000098079
269	MBC7A20V	4435.9934013900	-19.7694762476	100.5000312910	279.0934685561	-101.2498200000	-0.0000019509	0.0000098079
270	D832	4437.3201313900	-21.0707143158	100.5000312458	278.8346404591	-101.2498200000	-0.0000019509	0.0000098079
271	MBA7A19	4440.3214813900	-23.9808151607	100.5000311186	278.1057081305	-106.8748100000	-0.0000029028	0.0000095694
272	D826	4442.7404313900	-26.2957901332	100.5000309961	277.4034765331	-106.8748100000	-0.0000029028	0.0000095694
273	MBA7A20	4445.7416913900	-29.1204303612	100.5000308197	276.3928149429	-112.4998000000	-0.0000038268	0.0000092388
274	D827	4447.2330013900	-30.4982231389	100.5000307201	275.8221201228	-112.4998000000	-0.0000038268	0.0000092388
275	IPM7A21	4447.2330013900	-30.4982231389	100.5000307201	275.8221201228	-112.4998000000	-0.0000038268	0.0000092388
276	D804	4447.4576513900	-30.7057729760	100.5000307050	275.7361510142	-112.4998000000	-0.0000038268	0.0000092388
277	MQA7A21	4447.7576513900	-30.9829372365	100.5000306850	275.6213469520	-112.4998000000	-0.0000038268	0.0000092388
278	D805	4448.1468913900	-31.3425486257	100.5000306590	275.4723925081	-112.4998000000	-0.0000038268	0.0000092388
279	MBC7A21H	4448.1468914000	-31.3425486349	100.5000306590	275.4723925042	-112.4998000000	-0.0000038268	0.0000092388
280	D836	4449.4736114000	-32.5682798605	100.5000305704	274.9646830195	-112.4998000000	-0.0000038268	0.0000092388
281	MBA7A21	4452.4748214000	-35.2802567387	100.5000303465	273.6820253569	-118.1247900000	-0.0000047139	0.0000088192
282	D826	4454.8939614000	-37.4137519258	100.5000301475	272.5416584746	-118.1247900000	-0.0000047139	0.0000088192
283	MBA7A22	4457.8951714000	-39.9869477271	100.5000298783	270.9993573901	-123.7497800000	-0.0000055557	0.0000083147
284	D840	4459.6111214000	-41.4137116689	100.5000297119	270.0460321271	-123.7497800000	-0.0000055557	0.0000083147
285	IPM7A22	4459.6111214000	-41.4137116689	100.5000297119	270.0460321271	-123.7497800000	-0.0000055557	0.0000083147
286	MQA7A22	4459.6111214000	-41.6631531926	100.5000296828	269.8793620150	-123.7497800000	-0.0000055557	0.0000083147
287	D805	4460.3003614000	-41.9867952548	100.5000296451	269.6631131002	-123.7497800000	-0.0000055557	0.0000083147
288	MBC7A22V	4460.3003614100	-41.9867952631	100.5000296451	269.6631130946	-123.7497800000	-0.0000055557	0.0000083147
289	D834	4463.0432914100	-44.2674640581	100.5000293791	268.1392315925	-123.7497800000	-0.0000055557	0.0000083147
290	D804	4463.2679414100	-44.4542541857	100.5000293574	268.0144234569	-123.7497800000	-0.0000055557	0.0000083147
291	MQA7A23	4463.5679414100	-44.7036957094	100.5000293283	267.8477533448	-123.7497800000	-0.0000055557	0.0000083147
292	D809	4463.7610914100	-44.8642944770	100.5000293095	267.7404455709	-123.7497800000	-0.0000055557	0.0000083147
293	MBC7A23H	4463.7610914200	-44.8642944853	100.5000293095	267.7404455654	-123.7497800000	-0.0000055557	0.0000083147
294	D835	4466.7001114200	-47.3080065749	100.5000290246	266.1076229223	-123.7497800000	-0.0000055557	0.0000083147
295	IPM7A24	4466.7001114200	-47.3080065749	100.5000290246	266.1076229223	-123.7497800000	-0.0000055557	0.0000083147
296	D804	4466.9247614200	-47.4947967025	100.5000290028	265.9828147866	-123.7497800000	-0.0000055557	0.0000083147
297	MQA7A24	4467.2247614200	-47.7442382262	100.5000289737	265.8161446745	-123.7497800000	-0.0000055557	0.0000083147
298	D805	4467.6140014200	-48.0678802884	100.5000289359	265.5998957597	-123.7497800000	-0.0000055557	0.0000083147
299	MBC7A24V	4467.6140014300	-48.0678802967	100.5000289359	265.5998957542	-123.7497800000	-0.0000055557	0.0000083147
300	D836	4468.9407214300	-49.1710104910	100.5000288073	264.8628138503	-123.7497800000	-0.0000055557	0.0000083147
301	MBA7A23	4471.9419314300	-51.5806440213	100.5000284954	263.0757224937	-129.3747700000	-0.0000063439	0.0000077301
302	D826	4474.3610714300	-53.4506706900	100.5000282275	261.5410438310	-129.3747700000	-0.0000063439	0.0000077301
303	MBA7A24	4477.3622814300	-55.6735359436	100.5000278759	259.5622787599	-134.9997600000	-0.0000070710	0.0000070710
304	D827	4478.8535914300	-56.7280557746	100.5000276919	258.4718618111	-134.9997600000	-0.0000070710	0.0000070710
305	IPM7A25	4478.8535914300	-56.7280557746	100.5000276919	258.4718618111	-134.9997600000	-0.0000070710	0.0000070710
306	D804	4479.0782414300	-56.8869079783	100.5000276641	258.3130109381	-134.9997600000	-0.0000070710	0.0000070710
307	MQA7A25	4479.3782414300	-57.0990409013	100.5000276271	258.1008797923	-134.9997600000	-0.0000070710	0.0000070710
308	D809	4479.5713914300	-57.2356191482	100.5000276033	257.9643026896	-134.9997600000	-0.0000070710	0.0000070710
309	MBC7A25H	4479.5713914400	-57.2356191552	100.5000276033	257.9643026826	-134.9997600000	-0.0000070710	0.0000070710
310	D837	4480.2729414400	-57.7316919955	100.5000275167	257.4682339982	-134.9997600000	-0.0000070710	0.0000070710
311	ITV7A25	4480.2729414400	-57.7316919955	100.5000275167	257.4682339982	-134.9997600000	-0.0000070710	0.0000070710
312	D825	4481.0942014400	-58.3124129431	100.5000274153	256.8875179156	-134.9997600000	-0.0000070710	0.0000070710
313	MBA7A25	4484.0954114400	-60.3271025885	100.5000270274	252.6646695402	-140.6247500000	-0.0000077301	0.0000063440
314	D826	4486.5145514400	-61.8617969174	100.5000267010	254.7945557284	-140.6247500000	-0.0000077301	0.0000063440
315	MBA7A26	4489.5157614400	-63.6489084609	100.5000262804	250.3850371697	-146.2497400000	-0.0000083147	0.0000055557
316	D827	4491.0070714400	-64.4774415319	100.5000260640	249.1450619819	-146.2497400000	-0.0000083147	0.0000055557
317	IPM7A26	4491.0070714400	-64.4774415319	100.5000260640	249.1450619819	-146.2497400000	-0.0000083147	0.0000055557
318	D804	4491.2317214400	-64.6022512324	100.5000260314	248.9582728998	-146.2497400000	-0.0000083147	0.0000055557
319	MQA7A26	4491.5317214400	-64.7689234342	100.5000259879	248.7088327725	-146.2497400000	-0.0000083147	0.0000055557
320	D805	4491.9209914400	-64.9851750604	100.5000259314	248.3851925219	-146.2497400000	-0.0000083147	0.0000055557
321	MBC7A26V	4491.9209914500	-64.9851750659	100.5000259314	248.3851925136	-146.2497400000	-0.0000083147	0.0000055557
322	D838	4494.6638814500	-66.5090701187	100.5000255334	246.1045447998	-146.2497400000	-0.0000083147	0.0000055557
323	D804	4494.8885314500	-66.6338798192	100.5000255008	245.9177557178	-146.2497400000	-0.0000083147	0.0000055557
324	MQA7A27	4495.1885314500	-66.8005520210	100.5000254572	245.6683155904	-146.2497400000	-0.0000083147	0.0000055557
325	D809	4495.3816814500	-66.9078611403	100.5000254292	245.5077177218	-146.2497400000	-0.0000083147	0.0000055557
326	MBC7A27H	4495.3816814600	-66.9078611459	100.5000254292	245.5077177134	-146.2497400000	-0.0000083147	0.0000055557
327	D839	4498.5453414600	-68.6655084060	100.5000249701	242.8772385357	-146.2497400000	-0.0000083147	0.0000055557
328	IPM7A28	4498.5453414600	-68.6655084060	100.5000249701	242.8772385357	-146.2497400000	-0.0000083147	0.0000055557
329	MQA7A28	4498.8453414600	-68.8321806078	100.5000249266	242.6277984083	-146.2497400000	-0.0000083147	0.0000055557
330	D805	4499.2345814600	-69.0484322240	100.5000248701	242.3041581578	-146.2497400000	-0.0000083147	0.0000055557
331	MBC7A28V	4499.2345814700	-69.0484322395	100.5000248701	242.3041581495	-146.2497400000	-0.0000083147	0.0000055557
332	D832	4500.5613114700	-69.7855289407	100.5000246775	241.2010258156	-146.2497400000	-0.0000083147	0.0000055557
333	MBA7A27	4503.5625214700	-71.3278515823	100.5000242284	238.62718429351	-151.8747300000	-0.0000088192	0.0000047140
334	D826	4505.9816614700	-72.4682363380	100.5000238561	236.4943573016	-151.8747300000	-0.0000088192	0.0000047140
335	MBA7A28	4508.9828714700	-73.7509167204	100.5000233827	233.7823911690	-157.4997200000	-0.0000092388	0.0000038269
336	D827	4510.4741814700	-74.3216230380	100.5000231423	232.4046031724	-157.4997200000	-0.0000092388	0.0000038269
337	IPM7A29	4510.4741814700	-74.3216230380	100.5000231423	232.4046031724	-157.4997200000	-0.0000092388	0.0000038269
338	D804	4510.6988314700	-74.4075939304	100.5000231060	232.1970540555	-157.4997200000	-0.0000092388	0.0000038269
339	MQA7A29	4510.9988314700	-74.5224003146	100.5000230577	231.9198907568	-157.4997200000	-0.0000092388	0.0000038269
340	D809	4511.1919814700	-74.5963164916	100.5000230265	231.7414437864	-157.4997200000	-0.0000092388	0.0000038269
341	MBC7A29H	4511.1919814800	-74.5963164954	100.5000230265	231.7414437771	-157.4997200000	-0.0000092388	0.0000038269
342	D833	4512.7147914800	-75.1790775284	100.5000227810	230.3345536341	-157.4997200000	-0.0000092388	0.0000038269
343	MBA7A29	4515.7160014800	-76.1897627822	100.5000222880	227.5099218731	-163.1247100000	-0.0000095694	0.0000029029
344	D826	4518.1351414800	-76.8920137734	100.5000218839	225.1949527837	-163.1247100000	-0.0000095694	0.0000029029
345	MBA7A30	4521.1363514800	-77.6209704816	100.5000213760	222.2848580456	-168.7497000000	-0.0000098078	0.0000019510
346	D840	4522.						

369	MQA7R01	4542.6194215100	-80.6004762587	100.5000176723	201.0641841057	-179.9996800000	-0.0000100000	0.0000000001
370	D809	4542.8125715100	-80.6004773374	100.5000176386	200.8710341057	-179.9996800000	-0.0000100000	0.0000000001
371	MBC7R01H	4542.8125715200	-80.6004773374	100.5000176386	200.8710340957	-179.9996800000	-0.0000100000	0.0000000001
372	D837	4543.5141215200	-80.6004812556	100.5000175162	200.1694840957	-179.9996800000	-0.0000100000	0.0000000001
373	ITV7R01	4543.5141215200	-80.6004812556	100.5000175162	200.1694840957	-179.9996800000	-0.0000100000	0.0000000001
374	D841	4546.0947715200	-80.6004956687	100.5000170658	197.5888340958	-179.9996800000	-0.0000100000	0.0000000001
375	IPM7R02	4546.0947715200	-80.6004956687	100.5000170658	197.5888340958	-179.9996800000	-0.0000100000	0.0000000001
376	D804	4546.3194215200	-80.6004969234	100.5000170266	197.3641840958	-179.9996800000	-0.0000100000	0.0000000001
377	MQA7R02	4546.3194215200	-80.6004985989	100.5000169742	197.0641840958	-179.9996800000	-0.0000100000	0.0000000001
378	D805	4547.0086615200	-80.6005007728	100.5000169063	196.6749440958	-179.9996800000	-0.0000100000	0.0000000001
379	MBC7R02V	4547.0086615300	-80.6005007728	100.5000169063	196.6749440858	-179.9996800000	-0.0000100000	0.0000000001
380	D818	4550.0947715300	-80.6005180089	100.5000163676	193.5888340858	-179.9996800000	-0.0000100000	0.0000000001
381	IPM7R03	4550.0947715300	-80.6005180089	100.5000163676	193.5888340858	-179.9996800000	-0.0000100000	0.0000000001
382	D804	4550.3194215300	-80.6005192636	100.5000163284	193.3641840858	-179.9996800000	-0.0000100000	0.0000000001
383	MQA7R03	4550.6194215300	-80.6005209391	100.5000162761	193.0641840858	-179.9996800000	-0.0000100000	0.0000000001
384	D809	4550.8125715300	-80.6005220178	100.5000162424	192.8710340858	-179.9996800000	-0.0000100000	0.0000000001
385	MBC7R03H	4550.8125715400	-80.6005220178	100.5000162424	192.8710340758	-179.9996800000	-0.0000100000	0.0000000001
386	D842	4554.0947715400	-80.6005403491	100.5000156695	189.5888340759	-179.9996800000	-0.0000100000	0.0000000001
387	IPM7R04	4554.0947715400	-80.6005403491	100.5000156695	189.5888340759	-179.9996800000	-0.0000100000	0.0000000001
388	D804	4554.3194215400	-80.6005416038	100.5000156303	189.3641840759	-179.9996800000	-0.0000100000	0.0000000001
389	MQA7R04	4554.6194215400	-80.6005432793	100.5000155779	189.0641840759	-179.9996800000	-0.0000100000	0.0000000001
390	D843	4555.1506715400	-80.6005462464	100.5000154852	188.5329340759	-179.9996800000	-0.0000100000	0.0000000001
391	MBC7R04V	4555.1506715500	-80.6005462464	100.5000154852	188.5329340659	-179.9996800000	-0.0000100000	0.0000000001
392	D844	4558.3194215500	-80.6005639440	100.5000149322	185.3641840659	-179.9996800000	-0.0000100000	0.0000000001
393	MQA7R05	4558.6194215500	-80.6005656195	100.5000148798	185.0641840660	-179.9996800000	-0.0000100000	0.0000000001
394	D845	4560.0947715500	-80.6005738594	100.5000146223	183.5888340660	-179.9996800000	-0.0000100000	0.0000000001
395	IPM7R06	4560.0947715500	-80.6005738594	100.5000146223	183.5888340660	-179.9996800000	-0.0000100000	0.0000000001
396	D804	4560.3194215500	-80.6005751141	100.5000145831	183.3641840660	-179.9996800000	-0.0000100000	0.0000000001
397	MQA7R06	4560.6194215500	-80.6005767896	100.5000145307	183.0641840660	-179.9996800000	-0.0000100000	0.0000000001
398	D809	4560.8125715500	-80.6005778684	100.5000144970	182.8710340660	-179.9996800000	-0.0000100000	0.0000000001
399	MBC7R06H	4560.8125715600	-80.6005778684	100.5000144970	182.8710340560	-179.9996800000	-0.0000100000	0.0000000001
400	D846	4561.1221715600	-80.6005795975	100.5000144430	182.5614340560	-179.9996800000	-0.0000100000	0.0000000001
401	MBC7R06V	4561.1221715700	-80.6005795975	100.5000144430	182.5614340460	-179.9996800000	-0.0000100000	0.0000000001
402	D847	4561.5141215700	-80.6005817866	100.5000143746	182.1694840460	-179.9996800000	-0.0000100000	0.0000000001
403	ITV7R06	4561.5141215700	-80.6005817866	100.5000143746	182.1694840460	-179.9996800000	-0.0000100000	0.0000000001
404	D848	4562.3194215700	-80.6005862842	100.5000142340	181.3641840460	-179.9996800000	-0.0000100000	0.0000000001
405	MQA7R07	4562.6194215700	-80.6005879597	100.5000141817	181.0641840460	-179.9996800000	-0.0000100000	0.0000000001
406	D805	4563.0086615700	-80.6005901337	100.5000141137	180.6749440460	-179.9996800000	-0.0000100000	0.0000000001
407	D849	4564.6731015700	-80.6005994297	100.5000138232	179.0105040460	-179.9996800000	-0.0000100000	0.0000000001
408	MBC7R01	4565.6731315700	-80.6006050142	100.4863475507	178.0105985637	-179.9996800000	-1.5660800000	0.0000000001
409	D40072	4569.1744415700	-80.6006245619	100.3906572771	174.5105964084	-179.9996800000	-1.5660800000	0.0000000001
410	MBC7R03	4570.1744715700	-80.6006301464	100.3769910045	173.5106909261	-179.9996800000	-0.0000100000	0.0000000001
411	D850A	4570.3727715700	-80.6006312539	100.3769909699	173.3123909261	-179.9996800000	-0.0000100000	0.0000000001
412	IPM7R08	4570.3727715700	-80.6006312539	100.3769909699	173.3123909261	-179.9996800000	-0.0000100000	0.0000000001
413	D804	4570.5974215700	-80.6006325086	100.3769909307	173.0877409261	-179.9996800000	-0.0000100000	0.0000000001
414	MQA7R08	4570.8974215700	-80.6006341841	100.3769908783	172.7877409261	-179.9996800000	-0.0000100000	0.0000000001
415	D881	4570.9974215700	-80.6006347426	100.3769908609	172.6877409261	-179.9996800000	-0.0000100000	0.0000000001
416	MQA7R08A	4571.2974215700	-80.6006364181	100.3769908085	172.3877409261	-179.9996800000	-0.0000100000	0.0000000001
417	D805	4571.6866615700	-80.6006385921	100.3769907406	171.9985009261	-179.9996800000	-0.0000100000	0.0000000001
418	MBC7R08V	4571.6866615800	-80.6006385921	100.3769907406	171.9985009161	-179.9996800000	-0.0000100000	0.0000000001
419	D810B	4572.6745315800	-80.6006441094	100.3769905682	171.0106309161	-179.9996800000	-0.0000100000	0.0000000001
420	IPM7R09	4572.6745315800	-80.6006441094	100.3769905682	171.0106309161	-179.9996800000	-0.0000100000	0.0000000001
421	D804	4572.8991815800	-80.6006453641	100.3769905290	170.7859809161	-179.9996800000	-0.0000100000	0.0000000001
422	MQR7R09	4573.3991815800	-80.6006481566	100.3769904417	170.2859809161	-179.9996800000	-0.0000100000	0.0000000001
423	D809	4573.5923315800	-80.6006492353	100.3769904080	170.0928309161	-179.9996800000	-0.0000100000	0.0000000001
424	MBC7R09H	4573.5923315900	-80.6006492353	100.3769904080	170.0928309061	-179.9996800000	-0.0000100000	0.0000000001
425	D851A	4575.1215915900	-80.6006577763	100.3769901411	168.5635709062	-179.9996800000	-0.0000100000	0.0000000001
426	MBC7R10V	4575.1215916000	-80.6006577763	100.3769901411	168.5635708962	-179.9996800000	-0.0000100000	0.0000000001
427	D808	4575.3176816000	-80.6006588715	100.3769901068	168.3674808962	-179.9996800000	-0.0000100000	0.0000000001
428	IPM7R10	4575.3176816000	-80.6006588715	100.3769901068	168.3674808962	-179.9996800000	-0.0000100000	0.0000000001
429	MBC7R10H	4575.3176816100	-80.6006588715	100.3769901068	168.3674808862	-179.9996800000	-0.0000100000	0.0000000001
430	D809	4575.5108316100	-80.6006599503	100.3769900731	168.1743308862	-179.9996800000	-0.0000100000	0.0000000001
431	MQA7R10	4575.8108316100	-80.6006616258	100.3769900208	167.8743308862	-179.9996800000	-0.0000100000	0.0000000001
432	D804	4576.0354816100	-80.6006628805	100.3769899816	167.6496808862	-179.9996800000	-0.0000100000	0.0000000001
433	IPM7R10	4576.0354816100	-80.6006628805	100.3769899816	167.6496808862	-179.9996800000	-0.0000100000	0.0000000001
434	D852A	4577.7082116100	-80.6006722227	100.3769898696	165.9769508862	-179.9996800000	-0.0000100000	0.0000000001
435	MBC7R10A	4577.7082116200	-80.6006722227	100.3769898696	165.9769508762	-179.9996800000	-0.0000100000	0.0000000001
436	D853A	4580.0513716200	-80.6006853094	100.3769892807	163.6337908762	-179.9996800000	-0.0000100000	0.0000000001
437	MVR7R04	4583.0559816200	-80.6007020646	100.2328608044	160.6337949715	-179.9996800000	-5.5010700000	0.0000000001
438	D40067	4583.9419466200	-80.6007069899	100.1479283530	159.7519103646	-179.9996800000	-5.5010700000	0.0000000001
439	MAS7R05	4584.9446966200	-80.6007125750	100.0748593352	158.7519153261	-179.9996800000	-2.8572100000	0.0000000001
440	D40066	4585.9459366200	-80.6007181600	100.0249504688	157.7519200048	-179.9996800000	-2.8572100000	0.0000000001
441	MAQ7R06	4586.9463466200	-80.6007237450	100.0000115538	156.7519245881	-179.9996800000	0.0000000000	0.0000000001

1

510 STOP

Arc8.outd

LDIMAT VERSION 2.9 PROD
ODATE AND TIME OF THIS RUN: 12-JUN-2007 12:48:27

XSIF Parser Version 2.1
Version Date: 01-JAN-2004
Run: 12-JUN-2007 12:48:27
XSIF Parser developed by NLC Department,
Stanford Linear Accelerator Center.

UTRANSPORT

TITLE

CONVERTED FROM ../.././OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//ARC8.OPT

5

MAW8S01: SBEND, L=1.0004, ANGLE=2.79742, K1=0.694867, &
E1=0, E2=2.79709, HGAP=0.01905, &
HGAPX=0.01905, &
FINT=0.5, TILT=90

10

D900: DRIFT, L=2.00239
MAX8S02: SBEND, L=1.00245, ANGLE=2.30127, K1=-3.093, &

E1=5.09865, E2=-2.79709, HGAP=0.023749, &
 HGAPX=0.0238376, &
 FINT=0.5, TILT=90
 15 D901: DRIFT, L=0.222928
 MYR8S03: SBEND, L=3.00396, ANGLE=-5.09869, K1=1.41451, &
 E1=-0, E2=-5.0987, HGAP=0.0127, &
 HGAPX=0.0127, &
 FINT=0.5, TILT=90
 20 D902: DRIFT, L=0.259038
 MBC8S00H: GKICK, L=1E-08, DXP=0, DYP=0
 D903: DRIFT, L=4.02281
 IPM8S01: MONITOR, L=0
 D904: DRIFT, L=0.22465
 25 MQA8S01: QUADRUPOLE, L=0.3, K1=-0.791869, TILT=0
 D905: DRIFT, L=0.11815
 MQD8S01SK: QUADRUPOLE, L=0.15, K1=0, TILT=45
 D906: DRIFT, L=0.12109
 MBC8S01V: GKICK, L=1E-08, DXP=0, DYP=0
 30 D907: DRIFT, L=0.50546
 ITV8S01: MONITOR, L=0
 D908: DRIFT, L=2.48065
 IPM8S02: MONITOR, L=0
 MQA8S02: QUADRUPOLE, L=0.3, K1=1.11202, TILT=0
 35 D909: DRIFT, L=0.19315
 MBC8S02H: GKICK, L=1E-08, DXP=0, DYP=0
 D910: DRIFT, L=0.19609
 MBC8S02V: GKICK, L=1E-08, DXP=0, DYP=0
 D911A: DRIFT, L=1.58611
 40 IPM8S03: MONITOR, L=0
 MQR8S03: QUADRUPOLE, L=0.5, K1=-0.928518, TILT=0
 D912A: DRIFT, L=0.28924
 MBC8S03V: GKICK, L=1E-08, DXP=0, DYP=0
 D913: DRIFT, L=0.31166
 45 MAE8S04: SBEND, L=1.00007, ANGLE=2.41112, K1=-7.47806, &
 E1=1.20568, E2=1.20568, HGAP=0.012759, &
 HGAPX=0.012759, &
 FINT=0.5, TILT=90
 D914: DRIFT, L=2.695
 50 MAE8S06: SBEND, L=1.00007, ANGLE=-2.41112, K1=-7.47806, &
 E1=-1.20658, E2=-1.20658, HGAP=0.012954, &
 HGAPX=0.012954, &
 FINT=0.5, TILT=90
 D915: DRIFT, L=1.27496
 55 ITV8S04: MONITOR, L=0
 D916: DRIFT, L=0.3199
 MQA8S04: QUADRUPOLE, L=0.3, K1=-1.10029, TILT=0
 D919: DRIFT, L=0.1445
 MQA8S04A: QUADRUPOLE, L=0.3, K1=0, TILT=0
 60 D917: DRIFT, L=0.6372
 IPM8S05: MONITOR, L=0
 D918: DRIFT, L=0.2183
 MQA8S05: QUADRUPOLE, L=0.3, K1=0.688774, TILT=0
 MQA8S05A: QUADRUPOLE, L=0.3, K1=0, TILT=0
 65 D920: DRIFT, L=0.1929
 MBC8S05H: GKICK, L=1E-08, DXP=0, DYP=0
 MBC8S05V: GKICK, L=1E-08, DXP=0, DYP=0
 D921: DRIFT, L=0.46651
 MQA8S06: QUADRUPOLE, L=0.3, K1=0.507107, TILT=0
 70 MQA8S06A: QUADRUPOLE, L=0.3, K1=0.507107, TILT=0
 D922: DRIFT, L=3.8372
 IPM8S07: MONITOR, L=0
 MQA8S07: QUADRUPOLE, L=0.3, K1=-0.891437, TILT=0
 MQA8S07A: QUADRUPOLE, L=0.3, K1=-0.891437, TILT=0
 75 D923: DRIFT, L=0.38899
 MBC8S07V: GKICK, L=1E-08, DXP=0, DYP=0
 D924: DRIFT, L=1.84821
 IPM8S08: MONITOR, L=0
 MQA8S08: QUADRUPOLE, L=0.3, K1=0.997168, TILT=0
 80 MQA8S08A: QUADRUPOLE, L=0.3, K1=0.997168, TILT=0
 MBC8S08V: GKICK, L=1E-08, DXP=0, DYP=0
 IPM8S09: MONITOR, L=0
 MQA8S09: QUADRUPOLE, L=0.3, K1=-0.84721, TILT=0
 MQA8S09A: QUADRUPOLE, L=0.3, K1=-0.84721, TILT=0
 85 MBC8S09V: GKICK, L=1E-08, DXP=0, DYP=0
 IPM8S10: MONITOR, L=0
 MQA8S10: QUADRUPOLE, L=0.3, K1=0.701791, TILT=0
 MQA8S10A: QUADRUPOLE, L=0.3, K1=0.701791, TILT=0
 90 D925: DRIFT, L=0.1929
 MBC8S10H: GKICK, L=1E-08, DXP=0, DYP=0
 MBC8S10V: GKICK, L=1E-08, DXP=0, DYP=0
 MAT8S10H: GKICK, L=1E-08, DXP=0, DYP=0
 D926: DRIFT, L=15.4141
 IPM8E01: MONITOR, L=0
 95 MQC8E01: QUADRUPOLE, L=0.3, K1=-0.371504, TILT=0
 MBM8E01H: GKICK, L=1E-08, DXP=0, DYP=0
 MBM8E01V: GKICK, L=1E-08, DXP=0, DYP=0
 IH8E01: MONITOR, L=0
 D927: DRIFT, L=0.2303
 100 MBY8E01: SBEND, L=1.00029, ANGLE=-2.40609, K1=-0, &
 E1=-0, E2=-2.40609, HGAP=0, &
 HGAPX=0, &
 FINT=0.5, TILT=0
 D928: DRIFT, L=5.00442
 105 MBZ8E02: SBEND, L=2.00059, ANGLE=4.81218, K1=-0, &
 E1=2.40609, E2=2.40609, HGAP=0, &
 HGAPX=0, &
 FINT=0.5, TILT=0
 110 MBY8E03: SBEND, L=1.00029, ANGLE=-2.40609, K1=-0, &
 E1=-2.40609, E2=-0, HGAP=0, &
 HGAPX=0, &
 FINT=0.5, TILT=0
 D929: DRIFT, L=0.900346
 IPM8E02: MONITOR, L=0
 115 MQC8E02: QUADRUPOLE, L=0.3, K1=0.351244, TILT=0

MEM8E02H: GKICK, L=1E-08, DXP=0, DYP=0
MEM8E02V: GKICK, L=1E-08, DXP=0, DYP=0
ITV8E02: MONITOR, L=0
120 D930: DRIFT, L=15.1307
IPM8E03: MONITOR, L=0
MQC8E03: QUADRUPOLE, L=0.3, K1=-0.332767, TILT=0
MEM8E03H: GKICK, L=1E-08, DXP=0, DYP=0
MEM8E03V: GKICK, L=1E-08, DXP=0, DYP=0
125 D931: DRIFT, L=15.6353
IPM8A01: MONITOR, L=0
MQA8A01: QUADRUPOLE, L=0.3, K1=0.474334, TILT=0
MBC8A01H: GKICK, L=1E-08, DXP=0, DYP=0
MBC8A01V: GKICK, L=1E-08, DXP=0, DYP=0
ITV8A01: MONITOR, L=0
130 D932: DRIFT, L=1.36383
MBA8A01: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
135 D933: DRIFT, L=1.00916
MBA8A02: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
140 D934: DRIFT, L=2.03388
IPM8A02: MONITOR, L=0
MQA8A02: QUADRUPOLE, L=0.3, K1=-0.576402, TILT=0
D912: DRIFT, L=0.38924
MBC8A02V: GKICK, L=1E-08, DXP=0, DYP=0
145 D935: DRIFT, L=3.07141
IPM8A03: MONITOR, L=0
MQA8A03: QUADRUPOLE, L=0.3, K1=1.02087, TILT=0
MBC8A03H: GKICK, L=1E-08, DXP=0, DYP=0
D936: DRIFT, L=0.41809
150 IH8A03: MONITOR, L=0
D937: DRIFT, L=2.8494
IPM8A04: MONITOR, L=0
MQA8A04: QUADRUPOLE, L=0.3, K1=-0.576402, TILT=0
MBC8A04V: GKICK, L=1E-08, DXP=0, DYP=0
155 D938: DRIFT, L=1.86929
MBA8A03: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
160 MBA8A04: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
IPM8A05: MONITOR, L=0
165 MQA8A05: QUADRUPOLE, L=0.3, K1=0.46375, TILT=0
MBC8A05H: GKICK, L=1E-08, DXP=0, DYP=0
D939: DRIFT, L=2.06538
MBA8A05: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
170 HGAPX=0.0127, &
FINT=0.5, TILT=0
MBA8A06: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
175 FINT=0.5, TILT=0
IPM8A06: MONITOR, L=0
MQA8A06: QUADRUPOLE, L=0.3, K1=-0.576402, TILT=0
MBC8A06V: GKICK, L=1E-08, DXP=0, DYP=0
D940: DRIFT, L=3.0714
180 IPM8A07: MONITOR, L=0
MQA8A07: QUADRUPOLE, L=0.3, K1=1.02087, TILT=0
MBC8A07H: GKICK, L=1E-08, DXP=0, DYP=0
D941: DRIFT, L=3.26749
IPM8A08: MONITOR, L=0
185 MQA8A08: QUADRUPOLE, L=0.3, K1=-0.576402, TILT=0
MBC8A08V: GKICK, L=1E-08, DXP=0, DYP=0
MBA8A07: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
190 HGAPX=0.0127, &
FINT=0.5, TILT=0
MBA8A08: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
195 FINT=0.5, TILT=0
IPM8A09: MONITOR, L=0
MQA8A09: QUADRUPOLE, L=0.3, K1=0.591102, TILT=0
MBC8A09H: GKICK, L=1E-08, DXP=0, DYP=0
D942: DRIFT, L=0.70155
ITV8A09: MONITOR, L=0
200 MBA8A09: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
205 MBA8A10: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
IPM8A10: MONITOR, L=0
MQA8A10: QUADRUPOLE, L=0.3, K1=-0.576402, TILT=0
210 MBC8A10V: GKICK, L=1E-08, DXP=0, DYP=0
MQA8A11: QUADRUPOLE, L=0.3, K1=1.02087, TILT=0
MBC8A11H: GKICK, L=1E-08, DXP=0, DYP=0
D943: DRIFT, L=3.49214
IPM8A12: MONITOR, L=0
215 MQA8A12: QUADRUPOLE, L=0.3, K1=-0.576402, TILT=0
MBC8A12V: GKICK, L=1E-08, DXP=0, DYP=0
MBA8A11: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &

220 FINT=0.5, TILT=0
MBA8A12: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
225 IPM8A13: MONITOR, L=0
MQA8A13: QUADRUPOLE, L=0.3, K1=0.46375, TILT=0
MBC8A13H: GKICK, L=1E-08, DXP=0, DYP=0
MBA8A13: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
230 MBA8A14: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
235 D944: DRIFT, L=2.25853
IPM8A14: MONITOR, L=0
MQA8A14: QUADRUPOLE, L=0.3, K1=-0.576402, TILT=0
MBC8A14V: GKICK, L=1E-08, DXP=0, DYP=0
240 MQA8A15: QUADRUPOLE, L=0.3, K1=1.02087, TILT=0
MBC8A15H: GKICK, L=1E-08, DXP=0, DYP=0
IPM8A16: MONITOR, L=0
MQA8A16: QUADRUPOLE, L=0.3, K1=-0.576402, TILT=0
MBC8A16V: GKICK, L=1E-08, DXP=0, DYP=0
245 MBA8A15: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
250 MBA8A16: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
IPM8A17: MONITOR, L=0
MQA8A17: QUADRUPOLE, L=0.3, K1=0.591102, TILT=0
255 MBC8A17H: GKICK, L=1E-08, DXP=0, DYP=0
ITV8A17: MONITOR, L=0
MBA8A17: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
260 MBA8A18: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
265 IPM8A18: MONITOR, L=0
MQA8A18: QUADRUPOLE, L=0.3, K1=-0.576402, TILT=0
MBC8A18V: GKICK, L=1E-08, DXP=0, DYP=0
MQA8A19: QUADRUPOLE, L=0.3, K1=1.02087, TILT=0
MBC8A19H: GKICK, L=1E-08, DXP=0, DYP=0
270 IPM8A20: MONITOR, L=0
MQA8A20: QUADRUPOLE, L=0.3, K1=-0.576402, TILT=0
MBC8A20V: GKICK, L=1E-08, DXP=0, DYP=0
MBA8A19: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
275 MBA8A20: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
280 IPM8A21: MONITOR, L=0
MQA8A21: QUADRUPOLE, L=0.3, K1=0.46375, TILT=0
MBC8A21H: GKICK, L=1E-08, DXP=0, DYP=0
MBA8A21: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
285 MBA8A22: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
290 IPM8A22: MONITOR, L=0
MQA8A22: QUADRUPOLE, L=0.3, K1=-0.576402, TILT=0
MBC8A22V: GKICK, L=1E-08, DXP=0, DYP=0
295 MQA8A23: QUADRUPOLE, L=0.3, K1=1.02087, TILT=0
MBC8A23H: GKICK, L=1E-08, DXP=0, DYP=0
IPM8A24: MONITOR, L=0
MQA8A24: QUADRUPOLE, L=0.3, K1=-0.576402, TILT=0
MBC8A24V: GKICK, L=1E-08, DXP=0, DYP=0
300 MBA8A23: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
305 MBA8A24: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
IPM8A25: MONITOR, L=0
MQA8A25: QUADRUPOLE, L=0.3, K1=0.591102, TILT=0
310 MBC8A25H: GKICK, L=1E-08, DXP=0, DYP=0
ITV8A25: MONITOR, L=0
MBA8A25: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
315 MBA8A26: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
320 IPM8A26: MONITOR, L=0
MQA8A26: QUADRUPOLE, L=0.3, K1=-0.576402, TILT=0
MBC8A26V: GKICK, L=1E-08, DXP=0, DYP=0
MQA8A27: QUADRUPOLE, L=0.3, K1=1.02087, TILT=0

MBC8A27H: GKICK, L=1E-08, DXP=0, DYP=0
325 IPM8A28: MONITOR, L=0
MQA8A28: QUADRUPOLE, L=0.3, K1=-0.576402, TILT=0
MBC8A28V: GKICK, L=1E-08, DXP=0, DYP=0
MBA8A27: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
330 HGAPX=0.0127, &
FINT=0.5, TILT=0
MBA8A28: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
335 HGAPX=0.0127, &
FINT=0.5, TILT=0
IPM8A29: MONITOR, L=0
MQA8A29: QUADRUPOLE, L=0.3, K1=0.46375, TILT=0
MBC8A29H: GKICK, L=1E-08, DXP=0, DYP=0
MBA8A29: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
340 E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
MBA8A30: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
345 HGAPX=0.0127, &
FINT=0.5, TILT=0
IPM8A30: MONITOR, L=0
MQA8A30: QUADRUPOLE, L=0.3, K1=-0.576402, TILT=0
MBC8A30V: GKICK, L=1E-08, DXP=0, DYP=0
350 MQA8A31: QUADRUPOLE, L=0.3, K1=1.02087, TILT=0
MBC8A31H: GKICK, L=1E-08, DXP=0, DYP=0
IPM8A32: MONITOR, L=0
MQA8A32: QUADRUPOLE, L=0.3, K1=-0.576402, TILT=0
MBC8A32V: GKICK, L=1E-08, DXP=0, DYP=0
355 MBA8A31: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
MBA8A32: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
360 E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
D945: DRIFT, L=1.71615
ITV8R01: MONITOR, L=0
365 D946: DRIFT, L=0.1016
IPM8R01: MONITOR, L=0
MQA8R01: QUADRUPOLE, L=0.3, K1=0.470634, TILT=0
MQA8R01A: QUADRUPOLE, L=0.3, K1=0.470634, TILT=0
MBC8R01H: GKICK, L=1E-08, DXP=0, DYP=0
370 D947: DRIFT, L=2.0443
IPM8R02: MONITOR, L=0
MQA8R02: QUADRUPOLE, L=0.3, K1=-1.08371, TILT=0
MQA8R02A: QUADRUPOLE, L=0.3, K1=-1.08371, TILT=0
MBC8R02H: GKICK, L=1E-08, DXP=0, DYP=0
375 MBC8R02V: GKICK, L=1E-08, DXP=0, DYP=0
IPM8R03: MONITOR, L=0
MQA8R03: QUADRUPOLE, L=0.3, K1=1.19573, TILT=0
MQA8R03A: QUADRUPOLE, L=0.3, K1=1.19573, TILT=0
MBC8R03H: GKICK, L=1E-08, DXP=0, DYP=0
380 IPM8R04: MONITOR, L=0
MQA8R04: QUADRUPOLE, L=0.3, K1=-0.922748, TILT=0
MQA8R04A: QUADRUPOLE, L=0.3, K1=-0.922748, TILT=0
MBC8R04H: GKICK, L=1E-08, DXP=0, DYP=0
MBC8R04V: GKICK, L=1E-08, DXP=0, DYP=0
385 D970: DRIFT, L=0.46651
MQA8R05: QUADRUPOLE, L=0.3, K1=0.610184, TILT=0
MQA8R05A: QUADRUPOLE, L=0.3, K1=0.580972, TILT=0
MBC8R05H: GKICK, L=1E-08, DXP=0, DYP=0
D971: DRIFT, L=0.3427
390 ITV8R06: MONITOR, L=0
MQA8R06: QUADRUPOLE, L=0.3, K1=0.567765, TILT=0
MQA8R06A: QUADRUPOLE, L=0.3, K1=0.352577, TILT=0
MBC8R06H: GKICK, L=1E-08, DXP=0, DYP=0
D972: DRIFT, L=0.4443
395 IPM8R07: MONITOR, L=0
MQA8R07: QUADRUPOLE, L=0.3, K1=-0.350775, TILT=0
MQA8R07A: QUADRUPOLE, L=0.3, K1=-0.374645, TILT=0
MAE8R01: SBEND, L=1.00007, ANGLE=-2.41112, K1=-7.47806, &
400 E1=-1.20658, E2=-1.20658, HGAP=0.012954, &
HGAPX=0.012954, &
FINT=0.5, TILT=90
MAE8R03: SBEND, L=1.00007, ANGLE=2.41112, K1=-7.47806, &
E1=1.20568, E2=1.20568, HGAP=0.012759, &
405 HGAPX=0.012759, &
FINT=0.5, TILT=90
D952A: DRIFT, L=2.65765
IPM8R08: MONITOR, L=0
MQA8R08: QUADRUPOLE, L=0.5, K1=-0.990352, TILT=0
MBC8R08H: GKICK, L=1E-08, DXP=0, DYP=0
410 MBC8R08V: GKICK, L=1E-08, DXP=0, DYP=0
D911B: DRIFT, L=1.40611
IPM8R09: MONITOR, L=0
MQA8R09: QUADRUPOLE, L=0.3, K1=1.14936, TILT=0
MBC8R09H: GKICK, L=1E-08, DXP=0, DYP=0
415 D953: DRIFT, L=3.1822
IPM8R10: MONITOR, L=0
MQA8R10: QUADRUPOLE, L=0.3, K1=-0.800423, TILT=0
MBC8R10H: GKICK, L=1E-08, DXP=0, DYP=0
MBC8R10V: GKICK, L=1E-08, DXP=0, DYP=0
420 D954: DRIFT, L=3.67076
MAR8RAAH: GKICK, L=1E-08, DXP=0, DYP=0
D955: DRIFT, L=0.44652
MYR8R04: SBEND, L=3.00396, ANGLE=-5.09869, K1=1.41451, &
425 E1=0, E2=-5.0987, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=90
D956: DRIFT, L=0.222928

MAX8R05: SBEND, L=1.00245, ANGLE=2.30127, K1=-3.093, &
E1=5.09865, E2=-2.79709, HGAP=0.023749, &
430 HGAPX=0.0238376, &
FINT=0.5, TILT=90
D957: DRIFT, L=2.00239
MAW8R06: SBEND, L=1.0004, ANGLE=2.79742, K1=0.694867, &
E1=2.79709, E2=0, HGAP=0.01905, &
435 HGAPX=0.01905, &
FINT=0.5, TILT=90

ARC8: LINE=(MAW8S01, &
D900, MAX8S02, D901, MYR8S03, D902, &
440 MBC8S00H, D903, IPM8S01, D904, MQA8S01, &
D905, MQD8S01SK, D906, MBC8S01V, D907, &
ITV8S01, D908, IPM8S02, D904, MQA8S02, &
D909, MBC8S02H, D910, MBC8S02V, D911A, &
IPM8S03, D904, MQR8S03, D912A, MBC8S03V, &
445 D913, MAE8S04, D914, MAE8S06, D915, &
ITV8S04, D916, MQA8S04, D919, MQA8S04A, &
D917, IPM8S05, D918, MQA8S05, D919, &
MQA8S05A, D920, MBC8S05H, D910, MBC8S05V, &
D921, MQA8S06, D919, MQA8S06A, D922, &
450 IPM8S07, D918, MQA8S07, D919, MQA8S07A, &
D923, MBC8S07V, D924, IPM8S08, D918, &
MQA8S08, D919, MQA8S08A, D923, MBC8S08V, &
D924, IPM8S09, D918, MQA8S09, D919, &
MQA8S09A, D923, MBC8S09V, D924, IPM8S10, &
455 D918, MQA8S10, D919, MQA8S10A, D925, &
MBC8S10H, D910, MBC8S10V, MAT8S10H, D926, &
IPM8E01, D904, MQC8E01, D909, MBM8E01H, &
D910, MBM8E01V, D907, IH8E01, D927, &
460 MBY8E01, D928, MBZ8E02, D928, MBY8E03, &
D929, IPM8E02, D904, MQC8E02, D909, &
MBM8E02H, D910, MBM8E02V, D907, ITV8E02, &
D930, IPM8E03, D904, MQC8E03, D909, &
MBM8E03H, D910, MBM8E03V, D931, IPM8A01, &
465 D904, MQA8A01, D909, MBC8A01H, D910, &
MBC8A01V, D907, ITV8A01, D932, MBA8A01, &
D933, MBA8A02, D934, IPM8A02, D904, &
MQA8A02, D912, MBC8A02V, D935, IPM8A03, &
D904, MQA8A03, D909, MBC8A03H, D936, &
470 IH8A03, D937, IPM8A04, D904, MQA8A04, &
D912, MBC8A04V, D938, MBA8A03, D933, &
MBA8A04, D934, IPM8A05, D904, MQA8A05, &
D909, MBC8A05H, D939, MBA8A05, D933, &
MBA8A06, D934, IPM8A06, D904, MQA8A06, &
475 D912, MBC8A06V, D940, IPM8A07, D904, &
MQA8A07, D909, MBC8A07H, D941, IPM8A08, &
D904, MQA8A08, D912, MBC8A08V, D938, &
MBA8A07, D933, MBA8A08, D934, IPM8A09, &
D904, MQA8A09, D909, MBC8A09H, D942, &
ITV8A09, D932, MBA8A09, D933, MBA8A10, &
480 D934, IPM8A10, D904, MQA8A10, D912, &
MBC8A10V, D935, D904, MQA8A11, D909, &
MBC8A11H, D943, IPM8A12, MQA8A12, D912, &
MBC8A12V, D938, MBA8A11, D933, MBA8A12, &
D934, IPM8A13, D904, MQA8A13, D909, &
485 MBC8A13H, D939, MBA8A13, D933, MBA8A14, &
D944, IPM8A14, MQA8A14, D912, MBC8A14V, &
D940, D904, MQA8A15, D909, MBC8A15H, &
D941, IPM8A16, D904, MQA8A16, D912, &
MBC8A16V, D938, MBA8A15, D933, MBA8A16, &
490 D934, IPM8A17, D904, MQA8A17, D909, &
MBC8A17H, D942, ITV8A17, D932, MBA8A17, &
D933, MBA8A18, D934, IPM8A18, D904, &
MQA8A18, D912, MBC8A18V, D935, D904, &
MQA8A19, D909, MBC8A19H, D943, IPM8A20, &
495 MQA8A20, D912, MBC8A20V, D938, MBA8A19, &
D933, MBA8A20, D934, IPM8A21, D904, &
MQA8A21, D909, MBC8A21H, D939, MBA8A21, &
D933, MBA8A22, D944, IPM8A22, MQA8A22, &
500 D912, MBC8A22V, D940, D904, MQA8A23, &
D909, MBC8A23H, D941, IPM8A24, D904, &
MQA8A24, D912, MBC8A24V, D938, MBA8A23, &
D933, MBA8A24, D934, IPM8A25, D904, &
MQA8A25, D909, MBC8A25H, D942, ITV8A25, &
D932, MBA8A25, D933, MBA8A26, D934, &
505 IPM8A26, D904, MQA8A26, D912, MBC8A26V, &
D935, D904, MQA8A27, D909, MBC8A27H, &
D943, IPM8A28, MQA8A28, D912, MBC8A28V, &
D938, MBA8A27, D933, MBA8A28, D934, &
IPM8A29, D904, MQA8A29, D909, MBC8A29H, &
510 D939, MBA8A29, D933, MBA8A30, D944, &
IPM8A30, MQA8A30, D912, MBC8A30V, D940, &
D904, MQA8A31, D909, MBC8A31H, D941, &
IPM8A32, D904, MQA8A32, D912, MBC8A32V, &
D938, MBA8A31, D933, MBA8A32, D945, &
515 ITV8R01, D946, IPM8R01, D918, MQA8R01, &
D919, MQA8R01A, D925, MBC8R01H, D947, &
IPM8R02, D918, MQA8R02, D919, MQA8R02A, &
D925, MBC8R02H, D910, MBC8R02V, D924, &
IPM8R03, D918, MQA8R03, D919, MQA8R03A, &
520 D925, MBC8R03H, D947, IPM8R04, D918, &
MQA8R04, D919, MQA8R04A, D920, MBC8R04H, &
D910, MBC8R04V, D970, MQA8R05, D919, &
MQA8R05A, D920, MBC8R05H, D971, ITV8R06, &
D916, MQA8R06, D919, MQA8R06A, D920, &
525 MBC8R06H, D972, IPM8R07, D918, MQA8R07, &
D919, MQA8R07A, D925, MAE8R01, D914, &
MAE8R03, D952A, IPM8R08, D904, MQR8R08, &
D909, MBC8R08H, D910, MBC8R08V, D911B, &
IPM8R09, D904, MQA8R09, D909, MBC8R09H, &
530 D953, IPM8R10, D904, MQA8R10, D909, &
MBC8R10H, D910, MBC8R10V, D954, MAR8RAAH, &

D955, MYR8R04, D956, MAX8R05, D957, &
MAW8R06)
USE, ARCS
DIMAT

535
1

* DIMAD PROGRAM : LAST MODIFIED ON May 27, 2005 *

1
CONVERTED FROM ../../OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//ARCS.OPT

TOTAL LENGTH OF MACHINE IS: 403.735 METERS

IN THIS RUN THERE ARE :
296 DISTINCT ELEMENTS. ALLOCATED MXELMD : 297
472 ELEMENTS IN MACHINE. ALLOCATED MXPOS_D : 474
115 MATRICES DEFINED. ALLOCATED MAXMAT : 116
1987 VALUES IN ELDAT. ALLOCATED MAXDAT : 1987
0 LCAVs. ALLOCATED MX_LCAV : 1

1
OPERATION LIST ,

MACHINE

1 2 1 0 1 1 1
45.3891 1.1382 0 0
40.4474 -0.959019 0 0
0,

ELEMENT	#	BETAX	ALPHAX	BETAY	ALPHAY	ETAX	ETAPX	ETAY	ETAPY	NUX	NUY	ACC. LEN
\$\$INITIAL\$\$	0	45.3891	1.1382	40.4474	-0.9590	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.000
MAW8S01	1	43.0938	1.2578	42.3834	-1.0767	0.0000	0.0000	0.0244	0.0489	0.00360	0.00385	1.000
D900	2	38.2968	1.1378	46.8998	-1.1788	0.0000	0.0000	0.1223	0.0489	0.01145	0.01100	3.003
MAX8S02	3	35.9959	0.9540	49.3385	-0.9844	0.0000	0.0000	0.1914	0.0881	0.01575	0.01431	4.005
D901	4	35.5731	0.9422	49.7794	-0.9933	0.0000	0.0000	0.2110	0.0881	0.01674	0.01503	4.228
MYR8S03	5	30.0369	0.9733	56.2843	-1.3233	0.0000	0.0000	0.3424	0.0003	0.03136	0.02407	7.232
D902	6	29.5370	0.9565	56.9731	-1.3359	0.0000	0.0000	0.3425	0.0003	0.03274	0.02480	7.491
MBC8S00H	7	29.5370	0.9565	56.9731	-1.3359	0.0000	0.0000	0.3425	0.0003	0.03274	0.02480	7.491
D903	8	22.8903	0.6957	68.5125	-1.5326	0.0000	0.0000	0.3439	0.0003	0.05747	0.03505	11.514
IPM8S01	9	22.8903	0.6957	68.5125	-1.5326	0.0000	0.0000	0.3439	0.0003	0.05747	0.03505	11.514
D904	10	22.5809	0.6812	69.2035	-1.5435	0.0000	0.0000	0.3440	0.0003	0.05904	0.03557	11.739
MQA8S01	11	23.8064	-4.8627	65.2746	14.3273	0.0000	0.0000	0.3319	-0.0804	0.06112	0.03627	12.039
D905	12	24.9699	-4.9850	61.9332	13.9540	0.0000	0.0000	0.3224	-0.0804	0.06189	0.03657	12.157
MQDBS01S	13	26.4887	-5.1403	57.8181	13.4799	0.0000	0.0000	0.3103	-0.0804	0.06282	0.03697	12.307
D906	14	27.7488	-5.2656	54.5998	13.0973	0.0000	0.0000	0.3006	-0.0804	0.06353	0.03731	12.428
MBC8S01V	15	27.7488	-5.2656	54.5998	13.0973	0.0000	0.0000	0.3006	-0.0804	0.06353	0.03731	12.428
D907	16	33.3364	-5.7889	42.1669	11.5000	0.0000	0.0000	0.2599	-0.0804	0.06618	0.03899	12.933
ITV8S01	17	33.3364	-5.7889	42.1669	11.5000	0.0000	0.0000	0.2599	-0.0804	0.06618	0.03899	12.933
D908	18	68.4275	-8.3570	4.5578	3.6610	0.0000	0.0000	0.0604	-0.0804	0.07445	0.06762	15.414
IPM8S02	19	68.4275	-8.3570	4.5578	3.6610	0.0000	0.0000	0.0604	-0.0804	0.07445	0.06762	15.414
D904	20	72.2345	-8.5896	3.0724	2.9511	0.0000	0.0000	0.0424	-0.0804	0.07496	0.07718	15.639
MQA8S02	21	70.1500	15.3048	1.7931	1.4545	0.0000	0.0000	0.0200	-0.0701	0.07562	0.09792	15.939
D909	22	64.3628	14.6571	1.2961	1.1189	0.0000	0.0000	0.0064	-0.0701	0.07607	0.11814	16.132
MBC8S02H	23	64.3628	14.6571	1.2961	1.1189	0.0000	0.0000	0.0064	-0.0701	0.07607	0.11814	16.132
D910	24	58.7435	13.9995	0.9241	0.7782	0.0000	0.0000	-0.0073	-0.0701	0.07658	0.14681	16.328
MBC8S02V	25	58.7435	13.9995	0.9241	0.7782	0.0000	0.0000	-0.0073	-0.0701	0.07658	0.14681	16.328
D911A	26	22.7701	8.6808	2.8266	-1.9777	0.0000	0.0000	-0.1185	-0.0701	0.08349	0.42755	17.914
IPM8S03	27	22.7701	8.6808	2.8266	-1.9777	0.0000	0.0000	-0.1185	-0.0701	0.08349	0.42755	17.914
D904	28	19.0390	7.9274	3.8029	-2.3680	0.0000	0.0000	-0.1343	-0.0701	0.08520	0.43847	18.139
MQR8S03	29	15.5041	-0.3187	5.4063	-0.5868	0.0000	0.0000	-0.1527	-0.0022	0.09002	0.45538	18.639
D912A	30	15.6944	-0.3393	5.7666	-0.6587	0.0000	0.0000	-0.1533	-0.0022	0.09297	0.46362	18.928
MBC8S03V	31	15.6944	-0.3393	5.7666	-0.6587	0.0000	0.0000	-0.1533	-0.0022	0.09297	0.46362	18.928
D913	32	15.9128	-0.3614	6.2013	-0.7362	0.0000	0.0000	-0.1540	-0.0022	0.09611	0.47192	19.240
MAE8S04	33	16.8968	-0.6260	7.8262	-0.8818	0.0000	0.0000	-0.1341	0.0419	0.10584	0.49479	20.240
D914	34	20.8692	-0.8480	14.2290	-1.4940	0.0000	0.0000	-0.0213	0.0419	0.12876	0.53589	22.935
MAE8S06	35	22.9029	-1.1927	17.2283	-1.4929	0.0000	0.0000	-0.0004	-0.0001	0.13606	0.54604	23.935
D915	36	26.1163	-1.3276	21.3396	-1.7318	0.0000	0.0000	-0.0006	-0.0001	0.14436	0.55663	25.210
ITV8S04	37	26.1163	-1.3276	21.3396	-1.7318	0.0000	0.0000	-0.0006	-0.0001	0.14436	0.55663	25.210
D916	38	26.9765	-1.3614	22.4668	-1.7917	0.0000	0.0000	-0.0006	-0.0001	0.14628	0.55896	25.530
MQA8S04	39	30.6189	-1.1782	21.3363	5.4350	0.0000	0.0000	-0.0006	0.0001	0.14797	0.56110	25.830
D919	40	33.9353	-1.7726	19.7954	5.2282	0.0000	0.0000	-0.0006	0.0001	0.14868	0.56222	25.974
MQA8S04A	41	41.3691	-13.0066	16.7874	4.7988	0.0000	0.0000	-0.0006	0.0001	0.14996	0.56484	26.274
D917	42	59.6149	-15.6278	11.2530	3.8867	0.0000	0.0000	-0.0005	0.0001	0.15200	0.57222	26.911
IPM8S05	43	59.6149	-15.6278	11.2530	3.8867	0.0000	0.0000	-0.0005	0.0001	0.15200	0.57222	26.911
D918	44	66.6340	-16.5257	9.6242	3.5743	0.0000	0.0000	-0.0005	0.0001	0.15255	0.57556	27.130
MQA8S05	45	72.4614	-2.4958	8.1305	1.5074	0.0000	0.0000	-0.0005	0.0000	0.15323	0.58101	27.430
D919	46	73.1848	-2.5102	7.7032	1.4492	0.0000	0.0000	-0.0005	0.0000	0.15355	0.58392	27.574
MQA8S05A	47	74.6999	-2.5402	6.8699	1.3285	0.0000	0.0000	-0.0005	0.0000	0.15419	0.59049	27.874
D920	48	75.6836	-2.5594	6.3723	1.2509	0.0000	0.0000	-0.0005	0.0000	0.15460	0.59513	28.067
MBC8S05H	49	75.6836	-2.5594	6.3723	1.2509	0.0000	0.0000	-0.0005	0.0000	0.15460	0.59513	28.067
D910	50	76.6912	-2.5790	5.8973	1.1719	0.0000	0.0000	-0.0005	0.0000	0.15501	0.60022	28.263

MBC8S05V	51	76.6912	-2.5790	5.8973	1.1719	0.0000	0.0000	-0.0005	0.0000	0.15501	0.60022	28.263
D921	52	79.1192	-2.6255	4.8914	0.9842	0.0000	0.0000	-0.0005	0.0000	0.15596	0.61406	28.730
MQA8S06	53	77.0995	9.2551	4.5462	0.1840	0.0000	0.0000	-0.0005	-0.0001	0.15657	0.62427	29.030
D919	54	74.4482	9.0927	4.4978	0.1511	0.0000	0.0000	-0.0006	-0.0001	0.15687	0.62936	29.174
MQA8S06A	55	65.9103	18.9328	4.6335	-0.6105	0.0000	0.0000	-0.0006	-0.0002	0.15755	0.63990	29.474
D922	56	0.9123	-1.9939	13.6806	-1.7472	0.0000	0.0000	-0.0013	-0.0002	0.57516	0.71994	33.311
IPM8S07	57	0.9123	-1.9939	13.6806	-1.7472	0.0000	0.0000	-0.0013	-0.0002	0.57516	0.71994	33.311
D918	58	2.0427	-3.1844	14.4576	-1.8119	0.0000	0.0000	-0.0014	-0.0002	0.60072	0.72241	33.530
MQA8S07	59	4.7296	-6.0102	14.3842	2.0498	0.0000	0.0000	-0.0014	0.0002	0.61632	0.72568	33.830
D919	60	6.6304	-7.1443	13.7994	1.9976	0.0000	0.0000	-0.0013	0.0002	0.62042	0.72731	33.974
MQA8S07A	61	12.4218	-12.6738	11.6178	5.0789	0.0000	0.0000	-0.0012	0.0005	0.62576	0.73103	34.274
D923	62	24.2506	-17.7352	8.0155	4.1817	0.0000	0.0000	-0.0010	0.0005	0.62932	0.73745	34.663
MBC8S07V	63	24.2506	-17.7352	8.0155	4.1817	0.0000	0.0000	-0.0010	0.0005	0.62932	0.73745	34.663
D924	64	134.2529	-41.7831	0.4364	-0.0810	0.0000	0.0000	-0.0001	0.0005	0.63448	0.96295	36.511
IPM8S08	65	134.2529	-41.7831	0.4364	-0.0810	0.0000	0.0000	-0.0001	0.0005	0.63448	0.96295	36.511
D918	66	153.1154	-44.6235	0.5817	-0.5844	0.0000	0.0000	0.0001	0.0005	0.63472	1.03427	36.730
MQA8S08	67	166.1174	2.5880	1.2213	-1.6112	0.0000	0.0000	0.0002	0.0006	0.63502	1.09310	37.030
D919	68	165.3704	2.5813	1.7485	-2.0366	0.0000	0.0000	0.0003	0.0006	0.63515	1.10886	37.174
MQA8S08A	69	149.5142	48.6821	3.4795	-3.9052	0.0000	0.0000	0.0005	0.0007	0.63545	1.12856	37.474
D923	70	114.0400	42.5136	7.2244	-5.7220	0.0000	0.0000	0.0007	0.0007	0.63593	1.14092	37.863
MBC8S08V	71	114.0400	42.5136	7.2244	-5.7220	0.0000	0.0000	0.0007	0.0007	0.63593	1.14092	37.863
D924	72	11.0597	13.2053	44.3289	-14.3539	0.0000	0.0000	0.0020	0.0007	0.64421	1.15738	39.711
IPM8S09	73	11.0597	13.2053	44.3289	-14.3539	0.0000	0.0000	0.0020	0.0007	0.64421	1.15738	39.711
D918	74	6.0499	9.7436	50.8184	-15.3735	0.0000	0.0000	0.0021	0.0007	0.64846	1.15812	39.930
MQA8S09	75	1.8390	4.6478	56.2131	-2.1495	0.0000	0.0000	0.0023	0.0001	0.66298	1.15900	40.230
D919	76	0.7524	2.8718	56.8364	-2.1639	0.0000	0.0000	0.0023	0.0001	0.68258	1.15941	40.374
MQA8S09A	77	0.1337	-0.7574	53.8538	11.8518	0.0000	0.0000	0.0022	-0.0005	0.97901	1.16026	40.674
D923	78	2.5033	-5.3342	45.0308	10.8300	0.0000	0.0000	0.0021	-0.0005	1.09635	1.16151	41.063
MBC8S09V	79	2.5033	-5.3342	45.0308	10.8300	0.0000	0.0000	0.0021	-0.0005	1.09635	1.16151	41.063
D924	80	62.4120	-27.0802	13.9716	5.9750	0.0000	0.0000	0.0012	-0.0005	1.11997	1.17325	42.911
IPM8S10	81	62.4120	-27.0802	13.9716	5.9750	0.0000	0.0000	0.0012	-0.0005	1.11997	1.17325	42.911
D918	82	74.7959	-29.6487	11.4881	5.4016	0.0000	0.0000	0.0011	-0.0005	1.12048	1.17600	43.130
MQA8S10	83	88.2567	-14.2720	9.0914	2.7550	0.0000	0.0000	0.0010	-0.0002	1.12106	1.18072	43.430
D919	84	92.4298	-14.6072	8.3149	2.6184	0.0000	0.0000	0.0010	-0.0002	1.12131	1.18336	43.574
MQA8S10A	85	95.3180	5.1835	7.3001	0.8354	0.0000	0.0000	0.0009	-0.0001	1.12182	1.18956	43.874
D925	86	93.3291	5.1271	6.9864	0.7906	0.0000	0.0000	0.0009	-0.0001	1.12214	1.19386	44.067
MBC8S10H	87	93.3290	5.1271	6.9864	0.7906	0.0000	0.0000	0.0009	-0.0001	1.12214	1.19386	44.067
D910	88	91.3296	5.0697	6.6853	0.7450	0.0000	0.0000	0.0009	-0.0001	1.12248	1.19842	44.263
MBC8S10V	89	91.3296	5.0697	6.6853	0.7450	0.0000	0.0000	0.0009	-0.0001	1.12248	1.19842	44.263
MAT8S10H	90	91.3296	5.0697	6.6853	0.7450	0.0000	0.0000	0.0009	-0.0001	1.12248	1.19842	44.263
D926	91	4.5047	0.5631	38.9827	-2.8403	0.0000	0.0000	0.0001	-0.0001	1.25987	1.49645	59.677
IPM8E01	92	4.5047	0.5631	38.9827	-2.8403	0.0000	0.0000	0.0001	-0.0001	1.25987	1.49645	59.677
D904	93	4.2665	0.4974	40.2706	-2.8925	0.0000	0.0000	0.0001	-0.0001	1.26802	1.49735	59.902
MQC8E01	94	4.1322	-0.0448	40.6569	1.6193	0.0000	0.0000	0.0001	-0.0001	1.27947	1.49852	60.202
D909	95	4.1586	-0.0917	40.0346	1.6021	0.0000	0.0000	0.0000	-0.0001	1.28689	1.49929	60.395
MBM8E01H	96	4.1586	-0.0917	40.0346	1.6021	0.0000	0.0000	0.0000	-0.0001	1.28689	1.49929	60.395
D910	97	4.2039	-0.1392	39.4097	1.5847	0.0000	0.0000	0.0000	-0.0001	1.29435	1.50007	60.591
MBM8E01V	98	4.2039	-0.1392	39.4097	1.5847	0.0000	0.0000	0.0000	-0.0001	1.29435	1.50007	60.591
D907	99	4.4065	-0.2618	37.8305	1.5396	0.0000	0.0000	0.0000	-0.0001	1.31309	1.50215	61.096
IHA8E01	100	4.4065	-0.2618	37.8305	1.5396	0.0000	0.0000	0.0000	-0.0001	1.31309	1.50215	61.096
D927	101	4.5400	-0.3176	37.1261	1.5191	0.0000	0.0000	0.0000	-0.0001	1.32129	1.50313	61.327
MBY8E01	102	5.4091	-0.5603	34.1761	1.4903	-0.0210	-0.0420	-0.0001	-0.0001	1.35363	1.50760	62.327
D928	103	17.1009	-1.7760	21.6204	1.0186	-0.2313	-0.0420	-0.0004	-0.0001	1.44072	1.53707	67.331
MBZ8E02	104	25.1685	-2.2614	17.7839	0.8923	-0.2313	0.0420	-0.0005	-0.0001	1.45607	1.55334	69.332
D928	105	53.8858	-3.4770	11.3827	0.3868	-0.0210	0.0420	-0.0008	-0.0001	1.47777	1.61054	74.336
MBY8E03	106	61.1840	-3.7197	10.6711	0.3045	0.0000	0.0000	-0.0008	-0.0001	1.48054	1.62501	75.337
D929	107	68.0786	-3.9380	10.2058	0.2123	0.0000	0.0000	-0.0009	-0.0001	1.48276	1.63876	76.237
IPM8E02	108	68.0786	-3.9380	10.2058	0.2123	0.0000	0.0000	-0.0009	-0.0001	1.48276	1.63876	76.237
D904	109	69.8602	-3.9925	10.1156	0.1893	0.0000	0.0000	-0.0009	-0.0001	1.48328	1.64227	76.462
MQC8E02	110	70.0419	3.3933	10.3320	-0.9183	0.0000	0.0000	-0.0009	-0.0002	1.48396	1.64697	76.762
D909	111	68.7377	3.3588	10.6935	-0.9530	0.0000	0.0000	-0.0009	-0.0002	1.48440	1.64989	76.955
MBM8E02H	112	68.7377	3.3588	10.6935	-0.9530	0.0000	0.0000	-0.0009	-0.0002	1.48440	1.64989	76.955
D910	113	67.4274	3.3237	11.0741	-0.9880	0.0000	0.0000	-0.0010	-0.0002	1.48486	1.65276	77.151
MBM8E02V	114	67.4274	3.3237	11.0741	-0.9880	0.0000	0.0000	-0.0010	-0.0002	1.48486	1.65276	77.151
D907	115	64.1130	3.2334	12.1185	-1.0782	0.0000	0.0000	-0.0011	-0.0002	1.48608	1.65971	77.656
ITV8E02	116	64.1130	3.2334	12.1185	-1.0782	0.0000	0.0000	-0.0011	-0.0002	1.48608	1.65971	77.656
D930	117	7.1694	0.5300	85.5967	-3.7781	0.0000	0.0000	-0.0033	-0.0002	1.61078	1.73755	92.787
IPM8E03	118	7.1694	0.5300	85.5967	-3.7781	0.0000	0.0000	-0.0033	-0.0002	1.61078	1.73755	92.787
D904	119	6.9402	0.4899	87.3032	-3.8182	0.0000	0.0000	-0.0034	-0.0002	1.61585	1.73796	93.012
MQC8E03	120	6.8666	-0.2419	86.9759	4.8983	0.0000	0.0000	-0.0034	0.0002	1.62280	1.73850	93.312
D909	121	6.9658	-0.2717	85.0944	4.8428	0.0000	0.0000	-0.0033	0.0002	1.62725	1.73886	93.505
MBM8E03H	122	6.9658	-0.2717	85.0944	4.8428	0.0000	0.0000	-0.0033	0.0002	1.62725	1.73886	93.505
D910	123	7.0782	-0.3019	83.2062	4.7865	0.0000	0.0000	-0.0033	0.0002	1.63169	1.73923	93.701
MBM8E03V	124	7.0782	-0.3019	83.2062	4.7865	0.0000	0.0000	-0.0033	0.0002	1.63169	1.73923	93.701
D931	125	54.2041	-2.7122	3.7797	0.2935	0.0000	0.0000	-0.0004	0.0002	1.77881	1.91102	109.336
IPM8A01	126	54.2041	-2.7122	3.7797	0.2935	0.0000	0.0000	-0.0004	0.0002	1.77881	1.91102	109.336
D904	127	55.4305	-2.7468	3.6624	0.2289	0.0000	0.0000	-0.0003	0.0002	1.77946	1.92063	109.561
MQA8A01	128	54.7129	5.1047	3.7059	-0.3760	0.0000	0.0000	-0.0003	0.0001	1.78032	1.93370	109.861
D909	129	52.7594	5.0091	3.8626	-0.4355	0.0000	0.0000	-0.0003	0.0001	1.78089	1.94183	110.054
MBC8A01H	130	52.7594	5.0091	3.8626	-0.4355	0.0000	0.0000	-0.0003	0.0001	1.78089	1.94183	110.054
D910	131	50.8140	4.9122	4.0453	-0.4959	0.0000	0.0000	-0.0002	0.0001	1.78149	1.94973	110.250
MBC8A01V	132	50.8140	4.9122	4.0453	-0.4959	0.0000	0.0000	-0.0002	0.0001	1.78149	1.94973	110.250
D907	133	45.9745	4.6622	4.6253	-0.6516	0.0000	0.0000	-0.0002	0.0001	1.78316	1.96837	110.756
ITV8A01	134	45.9745	4.6622	4.6253	-0.6516	0.0000	0.0000	-0.0002	0.00			

D904	155	7.4242	1.5263	48.9909	-4.8001	1.0971	-0.4303	0.0018	0.0002	2.21648	2.12751	129.360
MQA8A04	156	6.9093	0.2195	49.3180	3.7288	0.9954	-0.2502	0.0018	-0.0001	2.22320	2.12848	129.660
D912	157	6.7614	0.1604	46.4610	3.6111	0.8981	-0.2502	0.0018	-0.0001	2.23227	2.12977	130.049
MBC8A04V	158	6.7614	0.1604	46.4610	3.6111	0.8981	-0.2502	0.0018	-0.0001	2.23227	2.12977	130.049
D938	159	6.6917	-0.1231	34.0164	3.0463	0.4305	-0.2502	0.0016	-0.0001	2.27709	2.13726	131.919
MBA8A03	160	8.7757	-0.5719	18.2637	2.1811	-0.1721	-0.1520	0.0013	-0.0001	2.34100	2.15647	134.920
D933	161	10.0839	-0.7245	14.1826	1.8630	-0.3255	-0.1520	0.0012	-0.0001	2.35811	2.16646	135.929
MBA8A04	162	15.7550	-1.1668	5.7737	0.9274	-0.6332	-0.0534	0.0009	-0.0001	2.39630	2.22028	138.930
D934	163	21.1215	-1.4717	3.3338	0.2722	-0.7417	-0.0534	0.0006	-0.0001	2.41408	2.29700	140.964
IPM8A05	164	21.1215	-1.4717	3.3338	0.2722	-0.7417	-0.0534	0.0006	-0.0001	2.41408	2.29700	140.964
D904	165	21.7903	-1.5054	3.2278	0.1998	-0.7537	-0.0534	0.0006	-0.0001	2.41575	2.30791	141.189
MQA8A05	166	21.7850	1.5227	3.2706	-0.3443	-0.7539	0.0519	0.0006	0.0000	2.41792	2.32273	141.489
D909	167	21.2025	1.4933	3.4163	-0.4104	-0.7439	0.0519	0.0006	0.0000	2.41935	2.33193	141.682
MBC8A05H	168	21.2025	1.4933	3.4163	-0.4104	-0.7439	0.0519	0.0006	0.0000	2.41935	2.33193	141.682
D939	169	15.6838	1.1787	6.5705	-1.1168	-0.6368	0.0519	0.0005	0.0000	2.43742	2.40372	143.747
MBA8A05	170	9.9640	0.7289	16.2848	-2.1068	-0.3335	0.1505	0.0005	0.0000	2.47593	2.45059	146.749
D933	171	8.6494	0.5738	20.8772	-2.4439	-0.1817	0.1505	0.0004	0.0000	2.49326	2.45930	147.758
MBA8A06	172	6.5763	0.1176	38.3514	-3.3547	0.4164	0.2487	0.0004	0.0000	2.55826	2.47622	150.759
D934	173	6.7357	-0.1960	53.3195	-4.0046	0.9222	0.2487	0.0003	0.0000	2.60769	2.48338	152.793
IPM8A06	174	6.7357	-0.1960	53.3195	-4.0046	0.9222	0.2487	0.0003	0.0000	2.60769	2.48338	152.793
D904	175	6.8315	-0.2306	55.1349	-4.0764	0.9781	0.2487	0.0003	0.0000	2.61296	2.48404	153.018
MQA8A06	176	7.3494	-1.5254	54.7142	5.4543	1.0788	0.4257	0.0003	-0.0001	2.61976	2.48490	153.318
D912	177	8.6054	-1.7016	50.5533	5.2356	1.2445	0.4257	0.0003	-0.0001	2.62755	2.48608	153.707
MBC8A06V	178	8.6054	-1.7016	50.5533	5.2356	1.2445	0.4257	0.0003	-0.0001	2.62755	2.48608	153.707
D940	179	23.3281	-3.0919	23.6939	3.5094	2.5522	0.4257	0.0000	-0.0001	2.66233	2.50022	156.778
IPM8A07	180	23.3281	-3.0919	23.6939	3.5094	2.5522	0.4257	0.0000	-0.0001	2.66233	2.50022	156.778
D904	181	24.7401	-3.1936	22.1455	3.3832	2.6478	0.4257	0.0000	-0.0001	2.66382	2.50179	157.003
MQA8A07	182	24.3762	4.3692	22.1388	-3.3604	2.6529	-0.3922	0.0000	-0.0001	2.66573	2.50397	157.303
D909	183	22.7191	4.2100	23.4577	-3.4677	2.5771	-0.3922	0.0000	-0.0001	2.66704	2.50532	157.496
MBC8A07H	184	22.7191	4.2100	23.4577	-3.4677	2.5771	-0.3922	0.0000	-0.0001	2.66704	2.50532	157.496
D941	185	4.0060	1.5171	52.0468	-5.2819	1.2955	-0.3922	-0.0003	-0.0001	2.72268	2.52023	160.763
IPM8A08	186	4.0060	1.5171	52.0468	-5.2819	1.2955	-0.3922	-0.0003	-0.0001	2.72268	2.52023	160.763
D904	187	3.3660	1.3319	54.4480	-5.4066	1.2074	-0.3922	-0.0003	-0.0001	2.73242	2.52090	160.988
MQA8A08	188	2.7920	0.6143	54.8540	4.0767	1.1202	-0.1918	-0.0003	0.0000	2.74816	2.52177	161.288
D912	189	2.3886	0.4223	51.7290	3.9517	1.0455	-0.1918	-0.0003	0.0000	2.77224	2.52293	161.677
MBC8A08V	190	2.3886	0.4223	51.7290	3.9517	1.0455	-0.1918	-0.0003	0.0000	2.77224	2.52293	161.677
D938	191	2.5337	-0.4999	38.0777	3.3513	0.6869	-0.1918	-0.0004	0.0000	2.90960	2.52963	163.547
MBA8A07	192	9.9458	-1.9721	20.6415	2.4347	0.2587	-0.0939	-0.0005	0.0000	3.01136	2.54671	166.548
D933	193	14.4267	-2.4682	16.0693	2.0960	0.1640	-0.0939	-0.0005	0.0000	3.02479	2.55553	167.557
MBA8A08	194	33.5773	-3.9186	6.4361	1.1006	0.0297	0.0043	-0.0005	0.0000	3.04651	2.60323	170.558
D934	195	51.5320	-4.9093	3.3803	0.4018	0.0385	0.0043	-0.0006	0.0000	3.05430	2.67504	172.592
IPM8A09	196	51.5320	-4.9093	3.3803	0.4018	0.0385	0.0043	-0.0006	0.0000	3.05430	2.67504	172.592
D904	197	53.7624	-5.0187	3.2171	0.3246	0.0394	0.0043	-0.0006	0.0000	3.05498	2.68589	172.817
MQA8A09	198	53.9012	4.5641	3.2210	-0.3379	0.0397	-0.0027	-0.0006	-0.0001	3.05586	2.70088	173.117
D909	199	52.1532	4.4858	3.3645	-0.4048	0.0391	-0.0027	-0.0006	-0.0001	3.05644	2.71022	173.310
MBC8A09H	200	52.1532	4.4858	3.3645	-0.4048	0.0391	-0.0027	-0.0006	-0.0001	3.05644	2.71022	173.310
D942	201	46.0585	4.2017	4.1026	-0.6474	0.0372	-0.0027	-0.0007	-0.0001	3.05871	2.74046	174.011
ITV8A09	202	46.0585	4.2017	4.1026	-0.6474	0.0372	-0.0027	-0.0007	-0.0001	3.05871	2.74046	174.011
D932	203	35.3511	3.6493	6.5120	-1.1192	0.0335	-0.0027	-0.0009	-0.0001	3.06409	2.78295	175.375
MBA8A09	204	17.0717	2.4469	16.2765	-2.1211	0.1724	0.0955	-0.0013	-0.0001	3.08355	2.83005	178.376
D933	205	12.5499	2.0338	20.9016	-2.4620	0.2687	0.0955	-0.0014	-0.0001	3.09453	2.83876	179.386
MBA8A10	206	4.0244	0.8094	38.5188	-3.3841	0.7015	0.1934	-0.0018	-0.0001	3.16377	2.85563	182.387
D934	207	2.4332	-0.0271	53.6218	-4.0416	1.0949	0.1934	-0.0020	-0.0001	3.27638	2.86276	184.421
IPM8A10	208	2.4332	-0.0271	53.6218	-4.0416	1.0949	0.1934	-0.0020	-0.0001	3.27638	2.86276	184.421
D904	209	2.4661	-0.1195	55.4540	-4.1142	1.1383	0.1934	-0.0021	-0.0001	3.29100	2.86341	184.645
MQA8A10	210	2.7081	-0.7011	55.0393	5.4726	1.2265	0.3970	-0.0021	0.0002	3.30968	2.86427	184.945
D912	211	3.3374	-0.9155	50.8642	5.2537	1.3810	0.3970	-0.0020	0.0002	3.33034	2.86544	185.335
MBC8A10V	212	3.3374	-0.9155	50.8642	5.2537	1.3810	0.3970	-0.0020	0.0002	3.33034	2.86544	185.335
D935	213	14.1570	-2.6072	23.8962	3.5266	2.6003	0.3970	-0.0012	0.0002	3.40406	2.87948	188.406
D904	214	15.3562	-2.7309	22.3401	3.4003	2.6894	0.3970	-0.0012	0.0002	3.40649	2.88103	188.631
MQA8A11	215	15.5760	2.0206	22.3410	-3.4035	2.6841	-0.4322	-0.0012	-0.0001	3.40953	2.88320	188.931
D909	216	14.8076	1.9576	23.6768	-3.5123	2.6006	-0.4322	-0.0012	-0.0001	3.41155	2.88454	189.124
MBC8A11H	217	14.8076	1.9576	23.6768	-3.5123	2.6006	-0.4322	-0.0012	-0.0001	3.41155	2.88454	189.124
D943	218	5.1149	0.8180	55.0762	-5.4792	1.0912	-0.4322	-0.0016	-0.0001	3.47727	2.89995	192.616
IPM8A12	219	5.1149	0.8180	55.0762	-5.4792	1.0912	-0.4322	-0.0016	-0.0001	3.47727	2.89995	192.616
MQA8A12	220	4.9068	-0.1123	55.4930	4.1142	0.9888	-0.2532	-0.0016	0.0002	3.48689	2.90081	192.916
D912	221	5.0255	-0.1927	52.3391	3.9884	0.8902	-0.2532	-0.0016	0.0002	3.49938	2.90196	193.305
MBC8A12V	222	5.0255	-0.1927	52.3391	3.9884	0.8902	-0.2532	-0.0016	0.0002	3.49938	2.90196	193.305
D938	223	6.4669	-0.5784	38.5569	3.3846	0.4170	-0.2532	-0.0013	0.0002	3.55255	2.90858	195.175
MBA8A11	224	11.7666	-1.1890	20.9344	2.4633	-0.1947	-0.1550	-0.0008	0.0002	3.60833	2.92543	198.176
D933	225	14.3752	-1.3960	16.3066	2.1226	-0.3511	-0.1550	-0.0006	0.0002	3.62069	2.93413	199.185
MBA8A12	226	24.5398	-1.9939	6.5307	1.1214	-0.6678	-0.0564	-0.0001	0.0002	3.64618	2.98111	202.186
D934	227	33.4892	-2.4063	3.3990	0.4183	-0.7824	-0.0564	0.0002	0.0002	3.65749	3.05215	204.220
IPM8A13	228	33.4892	-2.4063	3.3990	0.4183	-0.7824	-0.0564	0.0002	0.0002	3.65749	3.05215	204.220
D904	229	34.5805	-2.4518	3.2285	0.3407	-0.7951	-0.0564	0.0002	0.0002	3.65854	3.06295	204.445
MQA8A13	230	34.6057	2.3691	3.1865	-0.1989	-0.7953	0.0547	0.0003	0.0002	3.65991	3.07796	204.745
D909	231	33.6976	2.3322	3.2755	-0.2619	-0.7848	0.0547	0.0003	0.0002	3.66081	3.08749	204.938
MBC8A13H	232	33.6976	2.3322	3.2755	-0.2619	-0.7848	0.0547	0.0003	0.0002	3.66081	3.08749	204.938
D939	233	24.8789	1.9376	5.7489	-0.9357	-0.6719	0.0547	0.0007	0.0002	3.67217	3.16643	207.003
MBA8A13	234	14.9461	1.3751	14.2438	-1.8833	-0.3603	0.1533	0.0013	0.0002	3.69699	3.22026	210.004
D933	235	12.3678	1.1799	18.3700	-2.2054	-0.2056	0.1533	0.0015	0.0002	3.70882	3.23019	211.014
MBA8A14	236	7.0163	0.6048	34.3033	-3.0819	0.4010	0.2515	0.0021	0.0002	3.76092	3.24927	214.015
D944	237	5.2772	0.1652	49.7853	-3.7731	0.9689	0.2515	0.0026	0.0002	3.82144	3.25798	216.273
IPM8A14	238	5.2772	0.165									

D904	259	58.4253	-4.9732	3.7006	0.3884	0.0847	0.0077	0.0002	-0.0002	4.25787	3.45102	236.072
MQA8A17	260	58.2900	5.4161	3.6881	-0.3460	0.0847	-0.0074	0.0002	-0.0002	4.25868	3.46407	236.372
D909	261	56.2172	5.3156	3.8331	-0.4046	0.0833	-0.0074	0.0001	-0.0002	4.25921	3.47225	236.566
MBC8A17H	262	56.2172	5.3156	3.8331	-0.4046	0.0833	-0.0074	0.0001	-0.0002	4.25921	3.47225	236.566
D942	263	49.0150	4.9505	4.5502	-0.6176	0.0781	-0.0074	0.0000	-0.0002	4.26134	3.49911	237.267
ITV8A17	264	49.0150	4.9505	4.5502	-0.6176	0.0781	-0.0074	0.0000	-0.0002	4.26134	3.49911	237.267
D932	265	36.4796	4.2408	6.7994	-1.0316	0.0679	-0.0074	-0.0002	-0.0002	4.26648	3.53854	238.631
MBA8A17	266	15.6937	2.6914	15.6565	-1.9075	0.1928	0.0907	-0.0007	-0.0002	4.28645	3.58553	241.632
D933	267	10.7966	2.1613	19.8081	-2.2065	0.2844	0.0907	-0.0009	-0.0002	4.29880	3.59465	242.641
MBA8A18	268	2.5528	0.5881	35.5302	-3.0107	0.7031	0.1887	-0.0014	-0.0002	4.39544	3.61270	245.643
D934	269	2.3415	-0.4842	48.9489	-3.5869	1.0868	0.1887	-0.0017	-0.0002	4.55181	3.62047	247.676
IPM8A18	270	2.3415	-0.4842	48.9489	-3.5869	1.0868	0.1887	-0.0017	-0.0002	4.55181	3.62047	247.676
D904	271	2.5857	-0.6026	50.5748	-3.6505	1.1292	0.1887	-0.0018	-0.0002	4.56636	3.62119	247.901
MQA8A18	272	3.1447	-1.2927	50.1366	5.0858	1.2157	0.3905	-0.0018	0.0001	4.58328	3.62213	248.201
D912	273	4.2797	-1.6233	46.2587	4.8772	1.3677	0.3905	-0.0017	0.0001	4.60020	3.62341	248.590
MBC8A18V	274	4.2797	-1.6233	46.2587	4.8772	1.3677	0.3905	-0.0017	0.0001	4.60020	3.62341	248.590
D935	275	22.2639	-4.2321	21.3538	3.2314	2.5672	0.3905	-0.0013	0.0001	4.65115	3.63899	251.662
D904	276	24.2083	-4.4229	19.9289	3.1110	2.6549	0.3905	-0.0012	0.0001	4.65269	3.64073	251.886
MQA8A19	277	24.6196	3.0940	19.8834	-2.9546	2.6492	-0.4280	-0.0013	-0.0002	4.65461	3.64316	252.186
D909	278	23.4405	3.0110	21.0430	-3.0491	2.5666	-0.4280	-0.0013	-0.0002	4.65589	3.64466	252.380
MBC8A19H	279	23.4405	3.0110	21.0430	-3.0491	2.5666	-0.4280	-0.0013	-0.0002	4.65589	3.64466	252.380
D943	280	7.6477	1.5114	48.3059	-4.7579	1.0720	-0.4280	-0.0021	-0.0002	4.69789	3.66213	255.872
IPM8A20	281	7.6477	1.5114	48.3059	-4.7579	1.0720	-0.4280	-0.0021	-0.0002	4.69789	3.66213	255.872
MQA8A20	282	7.1522	0.1689	48.6434	3.6527	0.9705	-0.2521	-0.0021	0.0001	4.70440	3.66311	256.172
D912	283	7.0425	0.1129	45.8445	3.5379	0.8723	-0.2521	-0.0021	0.0001	4.71314	3.66442	256.561
MBC8A20V	284	7.0425	0.1129	45.8445	3.5379	0.8723	-0.2521	-0.0021	0.0001	4.71314	3.66442	256.561
D938	285	7.1228	-0.1559	33.6478	2.9868	0.4010	-0.2521	-0.0018	0.0001	4.75565	3.67200	258.430
MBA8A19	286	9.3310	-0.5805	18.1874	2.1436	-0.2074	-0.1539	-0.0014	0.0001	4.81552	3.69136	261.431
D933	287	10.6487	-0.7251	14.1742	1.8331	-0.3628	-0.1539	-0.0013	0.0001	4.83166	3.70137	262.441
MBA8A20	288	16.2515	-1.1434	5.8754	0.9207	-0.6763	-0.0553	-0.0009	0.0001	4.86822	3.75472	265.442
D934	289	21.4899	-1.4322	3.4310	0.2811	-0.7888	-0.0553	-0.0006	0.0001	4.88558	3.82955	267.476
IPM8A21	290	21.4899	-1.4322	3.4310	0.2811	-0.7888	-0.0553	-0.0006	0.0001	4.88558	3.82955	267.476
D904	291	22.1405	-1.4641	3.3206	0.2105	-0.8012	-0.0553	-0.0006	0.0001	4.88722	3.84015	267.700
MQA8A21	292	22.0960	1.6103	3.3600	-0.3437	-0.8010	0.0565	-0.0005	0.0001	4.88936	3.85456	268.000
D909	293	21.4800	1.5789	3.5052	-0.4079	-0.7901	0.0565	-0.0005	0.0001	4.89077	3.86352	268.193
MBC8A21H	294	21.4800	1.5789	3.5052	-0.4079	-0.7901	0.0565	-0.0005	0.0001	4.89077	3.86352	268.193
D939	295	15.6515	1.2431	6.6098	-1.0952	-0.6733	0.0565	-0.0004	0.0001	4.90874	3.93411	270.259
MBA8A21	296	9.6387	0.7622	16.1118	-2.0579	-0.3560	0.1552	-0.0002	0.0001	4.94795	3.98109	273.260
D933	297	8.2673	0.5967	20.5962	-2.3858	-0.1994	0.1552	-0.0001	0.0001	4.96598	3.98991	274.269
MBA8A22	298	6.1508	0.1092	37.6434	-3.2711	0.4128	0.2534	0.0001	0.0001	5.03497	4.00710	277.270
D944	299	6.4968	-0.2624	54.0048	-3.9731	0.9850	0.2534	0.0002	0.0001	5.09312	4.01508	279.529
IPM8A22	300	6.4968	-0.2624	54.0048	-3.9731	0.9850	0.2534	0.0002	0.0001	5.09312	4.01508	279.529
MQA8A22	301	7.0177	-1.5039	53.5811	5.3609	1.0874	0.4318	0.0002	0.0000	5.10026	4.01596	279.829
D912	302	8.2588	-1.6848	49.4919	5.1448	1.2554	0.4318	0.0002	0.0000	5.10840	4.01716	280.218
MBC8A22V	303	8.2588	-1.6848	49.4919	5.1448	1.2554	0.4318	0.0002	0.0000	5.10840	4.01716	280.218
D940	304	22.9924	-3.1122	23.1240	3.4401	2.5816	0.4318	0.0003	0.0000	5.14417	4.03163	283.290
D904	305	24.4142	-3.2167	21.6064	3.3154	2.6786	0.4318	0.0003	0.0000	5.14568	4.03323	283.514
MQA8A23	306	24.0934	4.2530	21.5912	-3.2634	2.6840	-0.3957	0.0003	0.0001	5.14762	4.03548	283.814
D909	307	22.4800	4.0999	22.8720	-3.3676	2.6076	-0.3957	0.0004	0.0001	5.14894	4.03686	284.007
MBC8A23H	308	22.4800	4.0999	22.8720	-3.3676	2.6076	-0.3957	0.0004	0.0001	5.14894	4.03686	284.007
D941	309	4.1453	1.5113	50.6395	-5.1305	1.3145	-0.3957	0.0008	0.0001	5.20390	4.05216	287.275
IPM8A24	310	4.1453	1.5113	50.6395	-5.1305	1.3145	-0.3957	0.0008	0.0001	5.20390	4.05216	287.275
D904	311	3.5063	1.3333	52.9719	-5.2518	1.2256	-0.3957	0.0008	0.0001	5.21328	4.05285	287.500
MQA8A24	312	2.9359	0.6006	53.3620	3.9739	1.1378	-0.1923	0.0008	0.0000	5.22831	4.05375	287.800
D912	313	2.5386	0.4202	50.3161	3.8514	1.0629	-0.1923	0.0008	0.0000	5.25108	4.05494	288.189
MBC8A24V	314	2.5386	0.4202	50.3161	3.8514	1.0629	-0.1923	0.0008	0.0000	5.25108	4.05494	288.189
D938	315	2.5871	-0.4462	37.0170	3.2632	0.7035	-0.1923	0.0008	0.0000	5.38119	4.06184	290.058
MBA8A23	316	9.4101	-1.8293	20.0568	2.3649	0.2740	-0.0944	0.0008	0.0000	5.48502	4.07941	293.059
D933	317	13.5726	-2.2954	15.6185	2.0332	0.1787	-0.0944	0.0007	0.0000	5.49925	4.08849	294.068
MBA8A24	318	31.4250	-3.6583	1.0583	0.0431	0.0038	0.0007	0.0000	0.0000	5.52241	4.13742	297.070
D934	319	48.1996	-4.5893	3.3888	0.3741	0.0509	0.0038	0.0006	0.0000	5.53073	4.20995	299.104
IPM8A25	320	48.1996	-4.5893	3.3888	0.3741	0.0509	0.0038	0.0006	0.0000	5.53073	4.20995	299.104
D904	321	50.2847	-4.6921	3.2377	0.2986	0.0517	0.0038	0.0006	0.0000	5.53146	4.22075	299.328
MQA8A25	322	50.4136	4.2700	3.2582	-0.3683	0.0515	-0.0054	0.0007	0.0001	5.53240	4.23560	299.628
D909	323	48.7784	4.1963	3.4135	-0.4357	0.0505	-0.0054	0.0007	0.0001	5.53302	4.24482	299.821
MBC8A25H	324	48.7784	4.1963	3.4135	-0.4357	0.0505	-0.0054	0.0007	0.0001	5.53302	4.24482	299.821
D942	325	43.0783	3.9286	4.1964	-0.6802	0.0467	-0.0054	0.0007	0.0001	5.53545	4.27450	300.523
ITV8A25	326	43.0783	3.9286	4.1964	-0.6802	0.0467	-0.0054	0.0007	0.0001	5.53545	4.27450	300.523
D932	327	33.0719	3.4083	6.7001	-1.1556	0.0394	-0.0054	0.0009	0.0001	5.54121	4.31590	301.887
MBA8A25	328	16.0285	2.2757	16.7047	-2.1643	0.1705	0.0928	0.0011	0.0001	5.56197	4.36169	304.888
D933	329	11.8280	1.8867	21.4195	-2.5077	0.2642	0.0928	0.0012	0.0001	5.57365	4.37019	305.897
MBA8A26	330	3.9712	0.7336	39.3286	-3.4352	0.6891	0.1908	0.0015	0.0001	5.64563	4.38668	308.898
D934	331	2.5894	-0.0542	54.6486	-4.0972	1.0771	0.1908	0.0017	0.0001	5.75498	4.39367	310.932
IPM8A26	332	2.5894	-0.0542	54.6486	-4.0972	1.0771	0.1908	0.0017	0.0001	5.75498	4.39367	310.932
D904	333	2.6333	-0.1412	56.5059	-4.1703	1.1200	0.1908	0.0017	0.0001	5.76869	4.39431	311.157
MQA8A26	334	2.8954	-0.7476	56.0703	5.5972	1.2069	0.3911	0.0017	-0.0002	5.78617	4.39515	311.457
D912	335	3.5590	-0.9572	51.8003	5.3728	1.3591	0.3911	0.0016	-0.0002	5.80551	4.39630	311.846
MBC8A26V	336	3.5590	-0.9572	51.8003	5.3728	1.3591	0.3911	0.0016	-0.0002	5.80551	4.39630	311.846
D935	337	14.5180	-2.6109	24.2353	3.6019	2.5603	0.3911	0.0010	-0.0002	5.87578	4.41011	314.917
D904	338	15.7182	-2.7318	22.6460	3.4724	2.6482	0.3911	0.0009	-0.0002	5.87814	4.41164	315.142
MQA8A27	339	15.9053	2.1276	22.6313	-3.4218	2.6430	-0.4254	0.0009	0.0001	5.88112	4.41378	315.442
D909	340	15.0964	2.0605	23.9741	-3.5303	2.5608	-0.4254	0.0009	0.0001	5.88310	4.41510	315.635
MBC8A27H	341	15.0964	2.0605	23.9741	-3.5303	2.5608	-0.4254	0.0009	0.0001	5.88310	4.41510	315.635
D943	342	4.9430	0.84									

MQA8A30	363	5.8342	-0.8577	50.7652	4.9525	1.0983	0.4312	-0.0025	0.0003	6.30557	4.79253	343.085
D912	364	6.5469	-0.9735	46.9860	4.7568	1.2661	0.4312	-0.0024	0.0003	6.31560	4.79379	343.474
MBC8A30V	365	6.5469	-0.9735	46.9860	4.7568	1.2661	0.4312	-0.0024	0.0003	6.31560	4.79379	343.474
D940	366	15.3330	-1.8872	22.5096	3.2123	2.5904	0.4312	-0.0016	0.0003	6.36519	4.80885	346.545
D904	367	16.1959	-1.9540	21.0916	3.0994	2.6872	0.4312	-0.0016	0.0003	6.36746	4.81049	346.770
MQA8A31	368	15.8807	-2.9722	21.1606	-3.3363	2.6921	-0.3989	-0.0016	-0.0002	6.37039	4.81278	347.070
D909	369	14.7557	-2.8526	22.4708	-3.4470	2.6150	-0.3989	-0.0016	-0.0002	6.37240	4.81419	347.263
MBC8A31H	370	14.7557	-2.8526	22.4708	-3.4470	2.6150	-0.3989	-0.0016	-0.0002	6.37240	4.81419	347.263
D941	371	2.7253	0.8292	51.1173	-5.3201	1.3115	-0.3989	-0.0023	-0.0002	6.45855	4.82956	350.531
IPM8A32	372	2.7253	0.8292	51.1173	-5.3201	1.3115	-0.3989	-0.0023	-0.0002	6.45855	4.82956	350.531
D904	373	2.3840	0.6901	53.5365	-5.4489	1.2219	-0.3989	-0.0023	-0.0002	6.47260	4.83024	350.755
MQA8A32	374	2.1379	0.1441	54.0151	3.8813	1.1330	-0.1962	-0.0024	0.0002	6.49400	4.83112	351.005
D912	375	2.0981	-0.0418	51.0386	3.7656	1.0566	-0.1962	-0.0023	0.0002	6.52341	4.83230	351.445
MBC8A32V	376	2.0981	-0.0418	51.0386	3.7656	1.0566	-0.1962	-0.0023	0.0002	6.52341	4.83230	351.445
D938	377	3.9227	-0.9343	38.0000	3.2096	0.6898	-0.1962	-0.0019	0.0002	6.63636	4.83906	353.314
MBA8A31	378	13.7891	-2.3562	21.1972	2.3662	0.2485	-0.0983	-0.0013	0.0002	6.70312	4.85593	356.315
D933	379	19.0286	-2.8357	16.7386	2.0520	1.1493	-0.0983	-0.0011	0.0002	6.71304	4.86446	357.324
MBA8A32	380	40.2216	-4.2322	7.1444	1.1317	0.0019	-0.0001	-0.0005	0.0002	6.73031	4.90872	360.325
D945	381	56.1324	-5.0391	4.2002	0.5838	0.0018	-0.0001	-0.0002	0.0002	6.73606	4.95944	362.042
ITV8R01	382	56.1324	-5.0391	4.2002	0.5838	0.0018	-0.0001	-0.0002	0.0002	6.73606	4.95944	362.042
D946	383	57.1612	-5.0869	4.0849	0.5514	0.0018	-0.0001	-0.0002	0.0002	6.73634	4.96334	362.143
IPM8R01	384	57.1612	-5.0869	4.0849	0.5514	0.0018	-0.0001	-0.0002	0.0002	6.73634	4.96334	362.143
D918	385	59.4046	-5.1895	3.8594	0.4817	0.0018	-0.0001	-0.0001	0.0002	6.73694	4.97210	362.361
MQA8R01	386	59.9919	3.2594	3.7570	-0.1358	0.0017	-0.0003	-0.0001	0.0002	6.73773	4.98474	362.661
D919	387	59.0540	3.2314	3.8019	-0.1750	0.0017	-0.0003	-0.0001	0.0002	6.73812	4.99082	362.806
MQA8R01A	388	54.7204	11.0093	4.0980	-0.8257	0.0015	-0.0005	0.0000	0.0002	6.73896	5.00302	363.106
D925	389	50.5561	10.5786	4.4318	-0.9049	0.0014	-0.0005	0.0000	0.0002	6.73954	5.01022	363.299
MBC8R01H	390	50.5561	10.5786	4.4318	-0.9049	0.0014	-0.0005	0.0000	0.0002	6.73954	5.01022	363.299
D947	391	16.6379	6.0131	9.8468	-1.7439	0.0003	-0.0005	0.0004	0.0002	6.75077	5.06030	365.343
IPM8R02	392	16.6379	6.0131	9.8468	-1.7439	0.0003	-0.0005	0.0004	0.0002	6.75077	5.06030	365.343
D918	393	14.1190	5.5255	10.6277	-1.8335	0.0002	-0.0005	0.0004	0.0002	6.75303	5.06370	365.561
MQA8R02	394	12.2139	1.0299	10.6901	1.6323	0.0001	-0.0005	0.0005	0.0000	6.75673	5.06810	365.861
D919	395	11.9198	1.0055	10.2256	1.5828	0.0000	-0.0005	0.0005	0.0000	6.75864	5.07030	366.006
MQA8R02A	396	12.4931	-2.9781	8.4010	4.3001	-0.0002	-0.0005	0.0005	-0.0001	6.76261	5.07537	366.306
D925	397	13.6714	-3.1305	6.8283	3.8526	-0.0003	-0.0005	0.0004	-0.0001	6.76496	5.07943	366.499
MBC8R02H	398	13.6714	-3.1305	6.8283	3.8526	-0.0003	-0.0005	0.0004	-0.0001	6.76496	5.07943	366.499
D910	399	14.9295	-3.2854	5.4066	3.3976	-0.0004	-0.0005	0.0004	-0.0001	6.76715	5.08456	366.695
MBC8R02V	400	14.9295	-3.2854	5.4066	3.3976	-0.0004	-0.0005	0.0004	-0.0001	6.76715	5.08456	366.695
D924	401	29.7721	-4.7454	0.7727	-0.8904	-0.0013	-0.0005	0.0002	-0.0001	6.78112	5.40479	368.543
IPM8R03	402	29.7721	-4.7454	0.7727	-0.8904	-0.0013	-0.0005	0.0002	-0.0001	6.78112	5.40479	368.543
D918	403	31.8816	-4.9179	1.2720	-1.3969	-0.0015	-0.0005	0.0002	-0.0001	6.78224	5.44012	368.761
MQA8R03	404	31.3841	6.5164	2.5299	-2.9453	-0.0015	0.0000	0.0001	-0.0001	6.78373	5.46735	369.061
D919	405	29.5298	6.3162	3.4609	-3.4978	-0.0015	0.0000	0.0001	-0.0001	6.78448	5.47513	369.206
MQA8R03A	406	23.0609	14.4677	6.4562	-6.8419	-0.0015	0.0006	0.0001	0.0000	6.78628	5.48542	369.506
D925	407	17.8186	12.7084	9.3713	-8.2705	-0.0013	0.0006	0.0001	0.0000	6.78779	5.48936	369.699
MBC8R03H	408	17.8186	12.7084	9.3713	-8.2705	-0.0013	0.0006	0.0001	0.0000	6.78779	5.48936	369.699
D947	409	3.9726	-5.9355	74.1354	-23.4098	-0.0002	0.0006	0.0000	0.0000	7.24873	5.50172	371.743
IPM8R04	410	3.9726	-5.9355	74.1354	-23.4098	-0.0002	0.0006	0.0000	0.0000	7.24873	5.50172	371.743
D918	411	6.9986	-7.9263	84.7090	-25.0265	-0.0001	0.0006	0.0000	0.0000	7.25532	5.50216	371.961
MQA8R04	412	13.4634	-14.2162	92.7133	-0.9116	0.0001	0.0006	0.0000	0.0000	7.26031	5.50269	372.261
D919	413	17.8868	-16.3960	92.9771	-0.9144	0.0002	0.0006	0.0000	0.0000	7.26179	5.50294	372.406
MQA8R04A	414	31.2009	-29.2061	85.9875	23.5645	0.0003	0.0006	0.0000	0.0000	7.26384	5.50346	372.706
D920	415	43.4871	-34.4859	77.1371	22.3166	0.0005	0.0006	0.0000	0.0000	7.26467	5.50384	372.899
MBC8R04H	416	43.4871	-34.4859	77.1371	22.3166	0.0005	0.0006	0.0000	0.0000	7.26467	5.50384	372.899
D910	417	58.0642	-39.8530	68.6337	21.0480	0.0006	0.0006	0.0000	0.0000	7.26530	5.50427	373.095
MBC8R04V	418	58.0642	-39.8530	68.6337	21.0480	0.0006	0.0006	0.0000	0.0000	7.26530	5.50427	373.095
D970	419	101.2046	-52.6218	50.4035	18.0299	0.0009	0.0006	-0.0001	0.0000	7.26626	5.50553	373.561
MQA8R05	420	128.5962	-37.0059	42.5971	8.4659	0.0010	0.0005	-0.0001	0.0000	7.26668	5.50657	373.861
D919	421	139.5135	-38.5459	40.1861	8.2194	0.0011	0.0005	-0.0001	0.0000	7.26685	5.50713	374.006
MQA8R05A	422	155.6172	-14.1943	37.3750	1.3134	0.0012	0.0002	-0.0001	-0.0001	7.26717	5.50837	374.306
D920	423	161.1417	-14.4452	36.8710	1.2993	0.0013	0.0002	-0.0001	-0.0001	7.26737	5.50920	374.499
MBC8R05H	424	161.1417	-14.4452	36.8710	1.2993	0.0013	0.0002	-0.0001	-0.0001	7.26737	5.50920	374.499
D971	425	171.1953	-14.8911	35.9890	1.2744	0.0013	0.0002	-0.0001	-0.0001	7.26769	5.51069	374.842
ITV8R06	426	171.1953	-14.8911	35.9890	1.2744	0.0013	0.0002	-0.0001	-0.0001	7.26769	5.51069	374.842
D916	427	180.8558	-15.3074	35.1812	1.2510	0.0014	0.0002	-0.0001	-0.0001	7.26798	5.51213	375.161
MQA8R06	428	180.7605	15.6197	36.2399	-4.8402	0.0015	0.0000	-0.0002	-0.0001	7.26825	5.51347	375.461
D919	429	176.2747	15.4239	37.6528	-4.9376	0.0015	0.0000	-0.0002	-0.0001	7.26837	5.51410	375.606
MQA8R06A	430	161.8010	32.3105	41.9472	-9.5282	0.0014	-0.0002	-0.0002	-0.0001	7.26866	5.51530	375.906
D920	431	149.5759	31.0647	45.7046	-9.9503	0.0014	-0.0002	-0.0002	-0.0001	7.26885	5.51601	376.099
MBC8R06H	432	149.5759	31.0647	45.7046	-9.9503	0.0014	-0.0002	-0.0002	-0.0001	7.26885	5.51601	376.099
D972	433	123.2467	28.1952	54.9784	-10.9225	0.0013	-0.0002	-0.0003	-0.0001	7.26937	5.51742	376.543
IPM8R07	434	123.2467	28.1952	54.9784	-10.9225	0.0013	-0.0002	-0.0003	-0.0001	7.26937	5.51742	376.543
D918	435	111.2444	26.7854	59.8515	-11.4002	0.0013	-0.0002	-0.0003	-0.0001	7.26967	5.51802	376.761
MQA8R07	436	98.9693	14.5614	64.8737	-5.1640	0.0013	0.0000	-0.0003	-0.0001	7.27013	5.51878	377.061
D919	437	94.8060	14.2504	66.3750	-5.2257	0.0013	0.0000	-0.0003	-0.0001	7.27037	5.51913	377.206
MQA8R07A	438	89.4909	3.6651	67.2654	2.2913	0.0013	0.0001	-0.0003	0.0000	7.27089	5.51985	377.506
D925	439	88.0829	3.6340	66.3849	2.2733	0.0013	0.0001	-0.0003	0.0000	7.27123	5.52030	377.699
MAE8R01	440	81.9366	2.5337	61.0966	2.9928	0.0015	0.0001	-0.0214	-0.0420	7.27311	5.52280	378.699
D914	441	68.9377	2.2896	46.1490	2.5536	0.0018	0.0001	-0.1346	-0.0420	7.27882	5.53088	381.394
MAE8R03	442	65.2095	1.4516	40.6417	2.9307	0.0020	0.0002	-0.1546	0.0020	7.28120	5.53455	382.394
D952A	443	57.8306	1.3249	26.7308	2.3036	0.0024	0.0002	-0.1493	0.0020	7.28809	5.54739	385.052
IPM8R08	444	57.8306	1.3249	26.7308	2.3036	0.0024	0.0002	-0.1493	0.0020	7.28809	5.54739	385.052
D904	445	57.2377	1.3142	25.7077	2.2506	0.0025	0.000					

D955	467	117.1011	-3.8692	209.7888	2.6586	0.0053	0.0003	0.3457	-0.0004	7.30408	6.03348	396.503
MYR8R04	468	140.1017	-3.3889	194.8181	1.8156	0.0063	0.0003	0.2115	-0.0885	7.30780	6.03585	399.507
D956	469	141.6171	-3.4088	194.0097	1.8107	0.0063	0.0003	0.1918	-0.0885	7.30805	6.03603	399.730
MAX8R05	470	148.2418	-4.0074	190.5132	2.7360	0.0066	0.0003	0.1234	-0.0489	7.30916	6.03686	400.732
D957	471	164.7518	-4.2378	179.7346	2.6469	0.0072	0.0003	0.0256	-0.0489	7.31119	6.03858	402.735
MAW8R06	472	172.2748	-3.6711	175.2007	2.3127	0.0075	0.0003	0.0012	0.0000	7.31214	6.03948	403.735

MAXIMUM LATTICE FUNCTIONS :
 BETA X = 0.2624760900E+03 BETA Y = 0.2345318686E+03
 ETA X = 0.2692102375E+01 ETA Y = 0.3473228892E+00

1
 OPERATION LIST ,

MATRIX

1 -1,

AFTER :MAW8R06 ELEMENT #: 472

 * TRANSFORMATION MATRIX *

FIRST ORDER MATRIX

-	0.1309103E+01	0.8177264E+02	-0.2667773E-13	-0.1712938E-12	0.0000000E+00	0.7521880E-02
-	0.1254023E-01	0.1547203E+01	-0.9482304E-15	-0.7120254E-14	0.0000000E+00	0.2841846E-03
-	-0.7784883E-14	-0.2649585E-12	0.1527488E+01	0.2066824E+02	0.0000000E+00	0.1158608E-02
-	-0.4197324E-15	-0.1782144E-13	-0.3412384E-01	0.1929445E+00	0.0000000E+00	0.1467619E-04
-	0.2777007E-03	0.1160065E-01	0.6195387E-04	0.7978406E-04	0.1000000E+01	0.5074780E-02
-	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.1000000E+01

HORIZONTAL MOVEMENT ANALYSIS

COMPACTION FACTOR = 0.1255401E-04 GAMMA TR = 0.2822337E+03

MOVEMENT IS UNSTABLE

HALF-TRACE = 0.14281528901211E+01
 EIGENVALUE1 = 0.2447707977517E+01
 WITH EIGENVECTOR :
 X = -0.99990306399696E+00 XP = -0.13923455371589E-01
 EIGENVALUE2 = 0.40853498249040E+00
 WITH EIGENVECTOR :
 X = -0.99993936166571E+00 XP = 0.11012401717153E-01

VERTICAL MOVEMENT ANALYSIS

COS(MU) = 0.86021599075365E+00 NU = 0.85164325069944E-01
 ETA = 0.44296639463721E-02 ETAP = -0.16910973559295E-03
 ALPHA = 0.13085555472191E+01 BETA = 0.40531538020374E+02

1
 OPERATION LIST ,

HARDWARE

8.84249 4835.22 -80.6 100 -91.5251 -180 0.0 0 1 0;

VALUES ARE FOR ENERGY : 0.884E+01 GEV

THE LENGTHS ARE MEASURED IN METERS ,THE ANGLES IN DEGREES

THE XYZ COORDINATES, AZIMUTH, ELEVATION AND ROLL ANGLES ARE :

#	NAME	S	X	Y	Z	THETA	PHI	PSI
1	MAW8S01	4836.2204000000	-80.6000000000	100.0244170086	-92.5251025882	180.0000000000	2.7974200000	0.0000000000
2	D900	4838.2227900000	-80.6000000000	100.1221432401	-94.5251064121	180.0000000000	2.7974200000	0.0000000000
3	MAX8S02	4839.2252400000	-80.6000000000	100.1911593307	-95.5251102599	180.0000000000	5.0986900000	0.0000000000
4	D901	4839.4481680000	-80.6000000000	100.2109712817	-95.7471561556	180.0000000000	5.0986900000	0.0000000000
5	MYR8S03	4842.4521280000	-80.6000000000	100.3445426906	-98.7471529839	180.0000000000	0.0000000000	0.0000000000
6	D902	4842.7111660000	-80.6000000000	100.3445426906	-99.0061909839	180.0000000000	0.0000000000	0.0000000000
7	MBC8S00H	4842.7111660100	-80.6000000000	100.3445426906	-99.0061909939	180.0000000000	0.0000000000	0.0000000000
8	D903	4846.7339760100	-80.6000000000	100.3445426906	-103.0290009939	180.0000000000	0.0000000000	0.0000000000
9	IPM8S01	4846.7339760100	-80.6000000000	100.3445426906	-103.0290009939	180.0000000000	0.0000000000	0.0000000000
10	D904	4846.9586260100	-80.6000000000	100.3445426906	-103.2536509939	180.0000000000	0.0000000000	0.0000000000
11	MQA8S01	4847.2586260100	-80.6000000000	100.3445426906	-103.5536509939	180.0000000000	0.0000000000	0.0000000000
12	D905	4847.3767760100	-80.6000000000	100.3445426906	-103.6718009939	180.0000000000	0.0000000000	0.0000000000
13	MQD8S01S	4847.5267760100	-80.6000000000	100.3445426906	-103.8218009939	180.0000000000	0.0000000000	0.0000000000
14	D906	4847.6478660100	-80.6000000000	100.3445426906	-103.9428909939	180.0000000000	0.0000000000	0.0000000000
15	MBC8S01V	4847.6478660200	-80.6000000000	100.3445426906	-103.9428910039	180.0000000000	0.0000000000	0.0000000000
16	D907	4848.1533260200	-80.6000000000	100.3445426906	-104.4483510039	180.0000000000	0.0000000000	0.0000000000
17	ITV8S01	4848.1533260200	-80.6000000000	100.3445426906	-104.4483510039	180.0000000000	0.0000000000	0.0000000000
18	D908	4850.6339760200	-80.6000000000	100.3445426906	-106.9290010039	180.0000000000	0.0000000000	0.0000000000
19	IPM8S02	4850.6339760200	-80.6000000000	100.3445426906	-106.9290010039	180.0000000000	0.0000000000	0.0000000000
20	D904	4850.8586260200	-80.6000000000	100.3445426906	-107.1536510039	180.0000000000	0.0000000000	0.0000000000
21	MQA8S02	4851.1586260200	-80.6000000000	100.3445426906	-107.4536510039	180.0000000000	0.0000000000	0.0000000000
22	D909	4851.3517760200	-80.6000000000	100.3445426906	-107.6468010039	180.0000000000	0.0000000000	0.0000000000
23	MBC8S02H	4851.3517760300	-80.6000000000	100.3445426906	-107.6468010139	180.0000000000	0.0000000000	0.0000000000

24	D910	4851.5478660300	-80.6000000000	100.3445426906	-107.8428910139	180.0000000000	0.0000000000	0.0000000000
25	MBC8S02V	4851.5478660400	-80.6000000000	100.3445426906	-107.8428910239	180.0000000000	0.0000000000	0.0000000000
26	D911A	4853.1339760400	-80.6000000000	100.3445426906	-109.4290010239	180.0000000000	0.0000000000	0.0000000000
27	IPM8S03	4853.1339760400	-80.6000000000	100.3445426906	-109.4290010239	180.0000000000	0.0000000000	0.0000000000
28	D904	4853.3586260400	-80.6000000000	100.3445426906	-109.6536510239	180.0000000000	0.0000000000	0.0000000000
29	MQR8S03	4853.8586260400	-80.6000000000	100.3445426906	-110.1536510239	180.0000000000	0.0000000000	0.0000000000
30	D912A	4854.1478660400	-80.6000000000	100.3445426906	-110.4428910239	180.0000000000	0.0000000000	0.0000000000
31	MBC8S03V	4854.1478660500	-80.6000000000	100.3445426906	-110.4428910339	180.0000000000	0.0000000000	0.0000000000
32	D913	4854.4959260500	-80.6000000000	100.3445426906	-110.7545510339	180.0000000000	0.0000000000	0.0000000000
33	MAE8S04	4855.4959605000	-80.6000000000	100.3655820496	-111.7543258905	180.0000000000	2.4111200000	0.0000000000
34	D914	4858.1545960500	-80.6000000000	100.4789595228	-114.4469399640	180.0000000000	2.4111200000	0.0000000000
35	MAE8S06	4859.1546660500	-80.6000000000	100.4999988818	-115.4467148206	180.0000000000	0.0000000000	0.0000000000
36	D915	4860.4296260500	-80.6000000000	100.4999988818	-116.7216748206	180.0000000000	0.0000000000	0.0000000000
37	ITV8S04	4860.4296260500	-80.6000000000	100.4999988818	-116.7216748206	180.0000000000	0.0000000000	0.0000000000
38	D916	4860.7495260500	-80.6000000000	100.4999988818	-117.0415748206	180.0000000000	0.0000000000	0.0000000000
39	MQA8S04	4861.0495260500	-80.6000000000	100.4999988818	-117.3415748206	180.0000000000	0.0000000000	0.0000000000
40	D919	4861.1940260500	-80.6000000000	100.4999988818	-117.4860748206	180.0000000000	0.0000000000	0.0000000000
41	MQA8S04A	4861.4940260500	-80.6000000000	100.4999988818	-117.7860748206	180.0000000000	0.0000000000	0.0000000000
42	D917	4862.1312260500	-80.6000000000	100.4999988818	-118.4232748206	180.0000000000	0.0000000000	0.0000000000
43	IPM8S05	4862.1312260500	-80.6000000000	100.4999988818	-118.4232748206	180.0000000000	0.0000000000	0.0000000000
44	D918	4862.3495260500	-80.6000000000	100.4999988818	-118.6415748206	180.0000000000	0.0000000000	0.0000000000
45	MQA8S05	4862.6495260500	-80.6000000000	100.4999988818	-118.9415748206	180.0000000000	0.0000000000	0.0000000000
46	D919	4862.7940260500	-80.6000000000	100.4999988818	-119.0860748206	180.0000000000	0.0000000000	0.0000000000
47	MQA8S05A	4863.0940260500	-80.6000000000	100.4999988818	-119.3860748206	180.0000000000	0.0000000000	0.0000000000
48	D920	4863.2869260500	-80.6000000000	100.4999988818	-119.5789748206	180.0000000000	0.0000000000	0.0000000000
49	MBC8S05H	4863.2869260600	-80.6000000000	100.4999988818	-119.5789748306	180.0000000000	0.0000000000	0.0000000000
50	D910	4863.4830160600	-80.6000000000	100.4999988818	-119.7750648306	180.0000000000	0.0000000000	0.0000000000
51	MBC8S05V	4863.4830160700	-80.6000000000	100.4999988818	-119.7750648406	180.0000000000	0.0000000000	0.0000000000
52	D921	4863.9495260700	-80.6000000000	100.4999988818	-120.2415748406	180.0000000000	0.0000000000	0.0000000000
53	MQA8S06	4864.2495260700	-80.6000000000	100.4999988818	-120.5415748406	180.0000000000	0.0000000000	0.0000000000
54	D919	4864.3940260700	-80.6000000000	100.4999988818	-120.6860748406	180.0000000000	0.0000000000	0.0000000000
55	MQA8S06A	4864.6940260700	-80.6000000000	100.4999988818	-120.9860748406	180.0000000000	0.0000000000	0.0000000000
56	D922	4868.5312260700	-80.6000000000	100.4999988818	-124.8232748406	180.0000000000	0.0000000000	0.0000000000
57	IPM8S07	4868.5312260700	-80.6000000000	100.4999988818	-124.8232748406	180.0000000000	0.0000000000	0.0000000000
58	D918	4868.7495260700	-80.6000000000	100.4999988818	-125.0415748406	180.0000000000	0.0000000000	0.0000000000
59	MQA8S07	4869.0495260700	-80.6000000000	100.4999988818	-125.3415748406	180.0000000000	0.0000000000	0.0000000000
60	D919	4869.1940260700	-80.6000000000	100.4999988818	-125.4860748406	180.0000000000	0.0000000000	0.0000000000
61	MQA8S07A	4869.4940260700	-80.6000000000	100.4999988818	-125.7860748406	180.0000000000	0.0000000000	0.0000000000
62	D923	4869.8830160700	-80.6000000000	100.4999988818	-126.1750648406	180.0000000000	0.0000000000	0.0000000000
63	MBC8S07V	4869.8830160800	-80.6000000000	100.4999988818	-126.1750648506	180.0000000000	0.0000000000	0.0000000000
64	D924	4871.7312260800	-80.6000000000	100.4999988818	-128.0232748506	180.0000000000	0.0000000000	0.0000000000
65	IPM8S08	4871.7312260800	-80.6000000000	100.4999988818	-128.0232748506	180.0000000000	0.0000000000	0.0000000000
66	D918	4871.9495260800	-80.6000000000	100.4999988818	-128.2415748506	180.0000000000	0.0000000000	0.0000000000
67	MQA8S08	4872.2495260800	-80.6000000000	100.4999988818	-128.5415748506	180.0000000000	0.0000000000	0.0000000000
68	D919	4872.3940260800	-80.6000000000	100.4999988818	-128.6860748506	180.0000000000	0.0000000000	0.0000000000
69	MQA8S08A	4872.6940260800	-80.6000000000	100.4999988818	-128.9860748506	180.0000000000	0.0000000000	0.0000000000
70	D923	4873.0830160800	-80.6000000000	100.4999988818	-129.3750648506	180.0000000000	0.0000000000	0.0000000000
71	MBC8S08V	4873.0830160900	-80.6000000000	100.4999988818	-129.3750648606	180.0000000000	0.0000000000	0.0000000000
72	D924	4874.9312260900	-80.6000000000	100.4999988818	-131.2232748606	180.0000000000	0.0000000000	0.0000000000
73	IPM8S09	4874.9312260900	-80.6000000000	100.4999988818	-131.2232748606	180.0000000000	0.0000000000	0.0000000000
74	D918	4875.1495260900	-80.6000000000	100.4999988818	-131.4415748606	180.0000000000	0.0000000000	0.0000000000
75	MQA8S09	4875.4495260900	-80.6000000000	100.4999988818	-131.7415748606	180.0000000000	0.0000000000	0.0000000000
76	D919	4875.5940260900	-80.6000000000	100.4999988818	-131.8860748606	180.0000000000	0.0000000000	0.0000000000
77	MQA8S09A	4875.8940260900	-80.6000000000	100.4999988818	-132.1860748606	180.0000000000	0.0000000000	0.0000000000
78	D923	4876.2830160900	-80.6000000000	100.4999988818	-132.5750648606	180.0000000000	0.0000000000	0.0000000000
79	MBC8S09V	4876.2830161000	-80.6000000000	100.4999988818	-132.5750648706	180.0000000000	0.0000000000	0.0000000000
80	D924	4878.1312261000	-80.6000000000	100.4999988818	-134.4232748706	180.0000000000	0.0000000000	0.0000000000
81	IPM8S10	4878.1312261000	-80.6000000000	100.4999988818	-134.4232748706	180.0000000000	0.0000000000	0.0000000000
82	D918	4878.3495261000	-80.6000000000	100.4999988818	-134.6415748706	180.0000000000	0.0000000000	0.0000000000
83	MQA8S10	4878.6495261000	-80.6000000000	100.4999988818	-134.9415748706	180.0000000000	0.0000000000	0.0000000000
84	D919	4878.7940261000	-80.6000000000	100.4999988818	-135.0860748706	180.0000000000	0.0000000000	0.0000000000
85	MQA8S10A	4879.0940261000	-80.6000000000	100.4999988818	-135.3860748706	180.0000000000	0.0000000000	0.0000000000
86	D925	4879.2869261000	-80.6000000000	100.4999988818	-135.5789748706	180.0000000000	0.0000000000	0.0000000000
87	MBC8S10H	4879.2869261100	-80.6000000000	100.4999988818	-135.5789748806	180.0000000000	0.0000000000	0.0000000000
88	D910	4879.4830161100	-80.6000000000	100.4999988818	-135.7750648806	180.0000000000	0.0000000000	0.0000000000
89	MBC8S10V	4879.4830161200	-80.6000000000	100.4999988818	-135.7750648906	180.0000000000	0.0000000000	0.0000000000
90	MAT8S10H	4879.4830161300	-80.6000000000	100.4999988818	-135.7750649006	180.0000000000	0.0000000000	0.0000000000
91	D926	4894.8971161300	-80.6000000000	100.4999988818	-151.1891649006	180.0000000000	0.0000000000	0.0000000000
92	IPM8E01	4894.8971161300	-80.6000000000	100.4999988818	-151.1891649006	180.0000000000	0.0000000000	0.0000000000
93	D904	4895.1217661300	-80.6000000000	100.4999988818	-151.4138149006	180.0000000000	0.0000000000	0.0000000000
94	MQC8E01	4895.4217661300	-80.6000000000	100.4999988818	-151.7138149006	180.0000000000	0.0000000000	0.0000000000
95	D909	4895.6149161300	-80.6000000000	100.4999988818	-151.9069649006	180.0000000000	0.0000000000	0.0000000000
96	MBM8E01H	4895.6149161400	-80.6000000000	100.4999988818	-151.9069649106	180.0000000000	0.0000000000	0.0000000000
97	D910	4895.8110061400	-80.6000000000	100.4999988818	-152.1030549106	180.0000000000	0.0000000000	0.0000000000
98	MBM8E01V	4895.8110061500	-80.6000000000	100.4999988818	-152.1030549206	180.0000000000	0.0000000000	0.0000000000
99	D907	4896.3164661500	-80.6000000000	100.4999988818	-152.6085149206	180.0000000000	0.0000000000	0.0000000000
100	IHABE01	4896.3164661500	-80.6000000000	100.4999988818	-152.6085149206	180.0000000000	0.0000000000	0.0000000000
101	D927	4896.5467661500	-80.6000000000	100.4999988818	-152.8388149206	180.0000000000	0.0000000000	0.0000000000
102	MBY8E01	4897.5470561500	-80.6210000990	100.4999988818	-153.8388109426	-177.5939100000	0.0000000000	0.0000000000
103	D928	4902.5514761500	-80.8310949128	100.4999988818	-158.8388189131	-177.5939100000	0.0000000000	0.0000000000
104	MBZ8E02	4904.5520661500	-80.8310949128	100.4999988818	-160.8388209542	177.5939100000	0.0000000000	0.0000000000
105	D928	4909.5564861500	-80.6210000990	100.4999988818	-166			

128	MQA8A01	4945.0810121900	-80.6000000000	100.4999988818	-201.3630609867	180.0000000000	0.0000000000	0.0000000000
129	D909	4945.2741621900	-80.6000000000	100.4999988818	-201.5562109867	180.0000000000	0.0000000000	0.0000000000
130	MBC8A01H	4945.2741622000	-80.6000000000	100.4999988818	-201.5562109967	180.0000000000	0.0000000000	0.0000000000
131	D910	4945.4702522000	-80.6000000000	100.4999988818	-201.7523009967	180.0000000000	0.0000000000	0.0000000000
132	MBC8A01V	4945.4702522100	-80.6000000000	100.4999988818	-201.7523010067	180.0000000000	0.0000000000	0.0000000000
133	D907	4945.9757122100	-80.6000000000	100.4999988818	-202.2577610067	180.0000000000	0.0000000000	0.0000000000
134	ITV8A01	4945.9757122100	-80.6000000000	100.4999988818	-202.2577610067	180.0000000000	0.0000000000	0.0000000000
135	D932	4947.3395422100	-80.6000000000	100.4999988818	-203.6215910067	180.0000000000	0.0000000000	0.0000000000
136	MB8A01	4950.3407522100	-80.4527969992	100.4999988818	-206.6179822601	174.3750100000	0.0000000000	0.0000000000
137	D933	4951.3499122100	-80.3538821971	100.4999988818	-207.6222828962	174.3750100000	0.0000000000	0.0000000000
138	MB8A02	4954.3511222100	-79.9136908349	100.4999988818	-210.5898173664	168.7500200000	0.0000000000	0.0000000000
139	D934	4956.3850022100	-79.5169012271	100.4999988818	-212.5846170710	168.7500200000	0.0000000000	0.0000000000
140	IPM8A02	4956.3850022100	-79.5169012271	100.4999988818	-212.5846170710	168.7500200000	0.0000000000	0.0000000000
141	D904	4956.6096522100	-79.4730742631	100.4999988818	-212.8049504995	168.7500200000	0.0000000000	0.0000000000
142	MQA8A02	4956.9096522100	-79.4145472693	100.4999988818	-213.0991861041	168.7500200000	0.0000000000	0.0000000000
143	D912	4957.2988922100	-79.3386104456	100.4999988818	-213.4809469931	168.7500200000	0.0000000000	0.0000000000
144	MBC8A02V	4957.2988922200	-79.3386104436	100.4999988818	-213.4809470029	168.7500200000	0.0000000000	0.0000000000
145	D935	4960.3703022200	-78.7394091292	100.4999988818	-216.4933409302	168.7500200000	0.0000000000	0.0000000000
146	IPM8A03	4960.3703022200	-78.7394091292	100.4999988818	-216.4933409302	168.7500200000	0.0000000000	0.0000000000
147	D904	4960.5949522200	-78.6955821653	100.4999988818	-216.7136743587	168.7500200000	0.0000000000	0.0000000000
148	MQA8A03	4960.8949522200	-78.6370551714	100.4999988818	-217.0079099633	168.7500200000	0.0000000000	0.0000000000
149	D909	4961.0881022200	-78.5993735418	100.4999988818	-217.1973486633	168.7500200000	0.0000000000	0.0000000000
150	MBC8A03H	4961.0881022300	-78.5993735399	100.4999988818	-217.1973486632	168.7500200000	0.0000000000	0.0000000000
151	D936	4961.5061922300	-78.5178083703	100.4999988818	-217.6074052095	168.7500200000	0.0000000000	0.0000000000
152	IH8A03	4961.5061922300	-78.5178083703	100.4999988818	-217.6074052095	168.7500200000	0.0000000000	0.0000000000
153	D937	4964.3555922300	-77.9619189822	100.4999988818	-220.4020549815	168.7500200000	0.0000000000	0.0000000000
154	IPM8A04	4964.3555922300	-77.9619189822	100.4999988818	-220.4020549815	168.7500200000	0.0000000000	0.0000000000
155	D904	4964.5802422300	-77.9180920183	100.4999988818	-220.6223884101	168.7500200000	0.0000000000	0.0000000000
156	MQA8A04	4964.8802422300	-77.8595650244	100.4999988818	-220.9166240146	168.7500200000	0.0000000000	0.0000000000
157	D912	4965.2694822300	-77.7836282007	100.4999988818	-221.2983849037	168.7500200000	0.0000000000	0.0000000000
158	MBC8A04V	4965.2694822400	-77.7836281988	100.4999988818	-221.2983849135	168.7500200000	0.0000000000	0.0000000000
159	D938	4967.1387722400	-77.4189484507	100.4999988818	-223.1317571576	168.7500200000	0.0000000000	0.0000000000
160	MB8A03	4970.1399822400	-76.6900079955	100.4999988818	-226.0041855966	163.1250300000	0.0000000000	0.0000000000
161	D933	4971.1491422400	-76.3970648163	100.4999988818	-227.0075620295	163.1250300000	0.0000000000	0.0000000000
162	MB8A04	4974.1503522400	-75.3863953383	100.4999988818	-229.8321994352	157.5000400000	0.0000000000	0.0000000000
163	D934	4976.1842322400	-74.6080644707	100.4999988818	-231.7112600821	157.5000400000	0.0000000000	0.0000000000
164	IPM8A05	4976.1842322400	-74.6080644707	100.4999988818	-231.7112600821	157.5000400000	0.0000000000	0.0000000000
165	D904	4976.4088822400	-74.5220947825	100.4999988818	-231.9188096791	157.5000400000	0.0000000000	0.0000000000
166	MQA8A05	4976.7088822400	-74.4072899463	100.4999988818	-232.1959736190	157.5000400000	0.0000000000	0.0000000000
167	D909	4976.9020322400	-74.3333747659	100.4999988818	-232.3744210023	157.5000400000	0.0000000000	0.0000000000
168	MBC8A05H	4976.9020322500	-74.3333747621	100.4999988818	-232.3744210116	157.5000400000	0.0000000000	0.0000000000
169	D939	4978.9674122500	-73.5429893867	100.4999988818	-234.2825838722	157.5000400000	0.0000000000	0.0000000000
170	MB8A05	4981.9686222500	-72.2603241508	100.4999988818	-236.9945571685	151.8750500000	0.0000000000	0.0000000000
171	D933	4982.9777822500	-71.7846101965	100.4999988818	-237.8845572468	151.8750500000	0.0000000000	0.0000000000
172	MB8A06	4985.9789922500	-70.2423019263	100.4999988818	-240.4577487412	146.2500600000	0.0000000000	0.0000000000
173	D934	4988.0128722500	-69.1123405117	100.4999988818	-242.1488593395	146.2500600000	0.0000000000	0.0000000000
174	IPM8A06	4988.0128722500	-69.1123405117	100.4999988818	-242.1488593395	146.2500600000	0.0000000000	0.0000000000
175	D904	4988.9875318545	-68.9875318545	100.4999988818	-243.3564911875	146.2500600000	0.0000000000	0.0000000000
176	MQA8A06	4988.5375222500	-68.8208610458	100.4999988818	-242.5850901769	146.2500600000	0.0000000000	0.0000000000
177	D912	4988.9267622500	-68.6046112272	100.4999988818	-242.9087316352	146.2500600000	0.0000000000	0.0000000000
178	MBC8A06V	4988.9267622600	-68.6046112217	100.4999988818	-242.9087316435	146.2500600000	0.0000000000	0.0000000000
179	D940	4991.9981622600	-66.8982354823	100.4999988818	-245.4625091977	146.2500600000	0.0000000000	0.0000000000
180	IPM8A07	4991.9981622600	-66.8982354823	100.4999988818	-245.4625091977	146.2500600000	0.0000000000	0.0000000000
181	D904	4992.2228122600	-66.7734268250	100.4999988818	-245.6492989768	146.2500600000	0.0000000000	0.0000000000
182	MQA8A07	4992.5228122600	-66.6067560163	100.4999988818	-245.8987400350	146.2500600000	0.0000000000	0.0000000000
183	D909	4992.7159622600	-66.4994477940	100.4999988818	-246.0593385030	146.2500600000	0.0000000000	0.0000000000
184	MBC8A07H	4992.7159622700	-66.4994477884	100.4999988818	-246.0593385113	146.2500600000	0.0000000000	0.0000000000
185	D941	4995.9834522700	-64.6841304528	100.4999988818	-248.7761590558	146.2500600000	0.0000000000	0.0000000000
186	IPM8A08	4995.9834522700	-64.6841304528	100.4999988818	-248.7761590558	146.2500600000	0.0000000000	0.0000000000
187	D904	4996.2081022700	-64.5593217956	100.4999988818	-248.9629488349	146.2500600000	0.0000000000	0.0000000000
188	MQA8A08	4996.5081022700	-64.3926509869	100.4999988818	-249.2123898932	146.2500600000	0.0000000000	0.0000000000
189	D912	4996.8973422700	-64.1764011683	100.4999988818	-249.5360313515	146.2500600000	0.0000000000	0.0000000000
190	MBC8A08V	4996.8973422800	-64.1764011627	100.4999988818	-249.5360313598	146.2500600000	0.0000000000	0.0000000000
191	D938	4998.7666322800	-63.1378809095	100.4999988818	-251.9092902789	146.2500600000	0.0000000000	0.0000000000
192	MB8A07	5001.7678422800	-61.3507828239	100.4999988818	-253.4999188187	140.6250700000	0.0000000000	0.0000000000
193	D933	5002.7770022800	-60.7105794503	100.4999988818	-254.2800108300	140.6250700000	0.0000000000	0.0000000000
194	MB8A08	5005.7782122800	-58.6959022197	100.4999988818	-256.5028704575	135.0000800000	0.0000000000	0.0000000000
195	D934	5007.8120922800	-57.2577338876	100.4999988818	-257.9410428057	135.0000800000	0.0000000000	0.0000000000
196	IPM8A09	5007.8120922800	-57.2577338876	100.4999988818	-257.9410428057	135.0000800000	0.0000000000	0.0000000000
197	D904	5008.0367422800	-57.0988825710	100.4999988818	-258.0998945659	135.0000800000	0.0000000000	0.0000000000
198	MQA8A09	5008.3367422800	-56.8867508329	100.4999988818	-258.3120268964	135.0000800000	0.0000000000	0.0000000000
199	D909	5008.5298922800	-56.7501733488	100.4999988818	-258.4486047619	135.0000800000	0.0000000000	0.0000000000
200	MBC8A09H	5008.5298922900	-56.7501733417	100.4999988818	-258.4486047690	135.0000800000	0.0000000000	0.0000000000
201	D942	5009.2314422900	-56.2541032720	100.4999988818	-258.9446762240	135.0000800000	0.0000000000	0.0000000000
202	ITV8A09	5009.2314422900	-56.2541032720	100.4999988818	-258.9446762240	135.0000800000	0.0000000000	0.0000000000
203	D932	5010.5952722900	-55.2897311772	100.4999988818	-259.9090510119	135.0000800000	0.0000000000	0.0000000000
204	MB8A09	5013.5964822900	-53.0668771757	100.4999988818	-261.9237344499	129.3750900000	0.0000000000	0.0000000000
205	D933	5014.6056422900	-52.2867869522	100.4999988818	-262.5639400019	129.3750900000	0.0000000000	0.0000000000
206	MB8A10	5017.6068522900	-49.8771634030	100.4999988818	-264.3510448164	123.7501000000	0.0000000000	0.0000000000
207	D934	5019.6407322900	-48.1860559600	100.4999988818	-265.4810109535	123.7501000000	0.0000000000	0.0000000000
208	IPM8A10	5019.6407322900	-48.1860559600	100.4999988818	-265.4810109535	123.7501000000	0.0000000000	0.0000000000
209	D904	5019.						

232	MBC8A13H	5040.1577623300	-30.5272591023	100.4999988818	-275.8092334607	112.5001200000	0.0000000000	0.0000000000
233	D939	5042.2231423300	-28.6190984489	100.4999988818	-276.5996241647	112.5001200000	0.0000000000	0.0000000000
234	MBABA13	5045.2243523300	-25.7944638656	100.4999988818	-277.6103015305	106.8751300000	0.0000000000	0.0000000000
235	D933	5046.2335123300	-24.8287586210	100.4999988818	-277.9032474065	106.8751300000	0.0000000000	0.0000000000
236	MBABA14	5049.2347223300	-21.9186618473	100.4999988818	-278.6321959882	101.2501400000	0.0000000000	0.0000000000
237	D944	5051.4932523300	-19.7035299446	100.4999988818	-279.0728187458	101.2501400000	0.0000000000	0.0000000000
238	IPMBA14	5051.4932523300	-19.7035299446	100.4999988818	-279.0728187458	101.2501400000	0.0000000000	0.0000000000
239	MQABA14	5051.7932523300	-19.4092945035	100.4999988818	-279.1313465614	101.2501400000	0.0000000000	0.0000000000
240	D912	5052.1824923300	-19.0275338265	100.4999988818	-279.2072844511	101.2501400000	0.0000000000	0.0000000000
241	MBC8A14V	5052.1824923300	-19.0275338167	100.4999988818	-279.2072844531	101.2501400000	0.0000000000	0.0000000000
242	D940	5055.2538923400	-16.0151513706	100.4999988818	-279.8064922288	101.2501400000	0.0000000000	0.0000000000
243	D904	5055.4785423400	-15.7948180644	100.4999988818	-279.8503198080	101.2501400000	0.0000000000	0.0000000000
244	MQABA15	5055.7785423400	-15.5005826233	100.4999988818	-279.9088476235	101.2501400000	0.0000000000	0.0000000000
245	D909	5055.9716923400	-15.3111440385	100.4999988818	-279.9465297821	101.2501400000	0.0000000000	0.0000000000
246	MBC8A15H	5055.9716923500	-15.3111440287	100.4999988818	-279.9465297841	101.2501400000	0.0000000000	0.0000000000
247	D941	5059.2391823500	-12.1064394904	100.4999988818	-280.5839932909	101.2501400000	0.0000000000	0.0000000000
248	IPMBA16	5059.2391823500	-12.1064394904	100.4999988818	-280.5839932909	101.2501400000	0.0000000000	0.0000000000
249	D904	5059.4638323500	-11.8861061843	100.4999988818	-280.6278208701	101.2501400000	0.0000000000	0.0000000000
250	MQABA16	5059.7638323500	-11.5918707431	100.4999988818	-280.6863486857	101.2501400000	0.0000000000	0.0000000000
251	D912	5060.1530723500	-11.2101100661	100.4999988818	-280.7622865755	101.2501400000	0.0000000000	0.0000000000
252	MBC8A16V	5060.1530723600	-11.2101100563	100.4999988818	-280.7622865774	101.2501400000	0.0000000000	0.0000000000
253	D938	5062.0223623600	-9.3767388306	100.4999988818	-281.1269714452	101.2501400000	0.0000000000	0.0000000000
254	MBABA15	5065.0235723600	-6.4092055897	100.4999988818	-281.5671710943	95.6251500000	0.0000000000	0.0000000000
255	D933	5066.0327323600	-5.4049052299	100.4999988818	-281.6660887009	95.6251500000	0.0000000000	0.0000000000
256	MBABA16	5069.0339423600	-2.4085143875	100.4999988818	-281.8133000693	90.0001600000	0.0000000000	0.0000000000
257	D934	5071.0678223600	-0.3746343875	100.4999988818	-281.8133057489	90.0001600000	0.0000000000	0.0000000000
258	IPMBA17	5071.0678223600	-0.3746343875	100.4999988818	-281.8133057489	90.0001600000	0.0000000000	0.0000000000
259	D904	5071.2924723600	-0.1499843875	100.4999988818	-281.8133063763	90.0001600000	0.0000000000	0.0000000000
260	MQABA17	5071.5924723600	0.1500156125	100.4999988818	-281.8133072140	90.0001600000	0.0000000000	0.0000000000
261	D909	5071.7856223600	0.3431656125	100.4999988818	-281.8133077534	90.0001600000	0.0000000000	0.0000000000
262	MBC8A17H	5071.7856223700	0.3431656225	100.4999988818	-281.8133077534	90.0001600000	0.0000000000	0.0000000000
263	D942	5072.4871723700	1.0447156225	100.4999988818	-281.8133097125	90.0001600000	0.0000000000	0.0000000000
264	ITVBA17	5072.4871723700	1.0447156225	100.4999988818	-281.8133097125	90.0001600000	0.0000000000	0.0000000000
265	D932	5073.8510023700	2.4085456225	100.4999988818	-281.8133135210	90.0001600000	0.0000000000	0.0000000000
266	MBABA17	5076.8522123700	5.4049372870	100.4999988818	-281.6661188877	84.3751700000	0.0000000000	0.0000000000
267	D933	5077.8613723700	6.4092381992	100.4999988818	-281.5672068902	84.3751700000	0.0000000000	0.0000000000
268	MBABA18	5080.8625823700	9.3767738987	100.4999988818	-281.1270238149	78.7501800000	0.0000000000	0.0000000000
269	D934	5082.8964623700	11.3715747113	100.4999988818	-280.7302397776	78.7501800000	0.0000000000	0.0000000000
270	IPMBA18	5082.8964623700	11.3715747113	100.4999988818	-280.7302397776	78.7501800000	0.0000000000	0.0000000000
271	D904	5083.1211123700	11.5919082622	100.4999988818	-280.6864134290	78.7501800000	0.0000000000	0.0000000000
272	MQABA18	5083.4211123700	11.8861440302	100.4999988818	-280.6278872567	78.7501800000	0.0000000000	0.0000000000
273	D912	5083.8103523700	12.2679051313	100.4999988818	-280.5519514991	78.7501800000	0.0000000000	0.0000000000
274	MBC8A18V	5083.8103523800	12.2679051411	100.4999988818	-280.5519514972	78.7501800000	0.0000000000	0.0000000000
275	D935	5086.8817623800	15.2803007417	100.4999988818	-279.9527585950	78.7501800000	0.0000000000	0.0000000000
276	D904	5087.1064123800	15.5006342926	100.4999988818	-279.9089322463	78.7501800000	0.0000000000	0.0000000000
277	MQABA19	5087.4064123800	15.7948700606	100.4999988818	-279.8504060741	78.7501800000	0.0000000000	0.0000000000
278	D909	5087.5995623800	15.9843088559	100.4999988818	-279.8127249735	78.7501800000	0.0000000000	0.0000000000
279	MBC8A19H	5087.5995623900	15.9843088657	100.4999988818	-279.8127249716	78.7501800000	0.0000000000	0.0000000000
280	D943	5091.0917023900	19.4093505151	100.4999988818	-279.1314530145	78.7501800000	0.0000000000	0.0000000000
281	IPMBA20	5091.0917023900	19.4093505151	100.4999988818	-279.1314530145	78.7501800000	0.0000000000	0.0000000000
282	MQABA20	5091.3917023900	19.7035862831	100.4999988818	-279.0729268423	78.7501800000	0.0000000000	0.0000000000
283	D912	5091.7809423900	20.0853473842	100.4999988818	-278.9969910847	78.7501800000	0.0000000000	0.0000000000
284	MBC8A20V	5091.7809424000	20.0853473940	100.4999988818	-278.9969910827	78.7501800000	0.0000000000	0.0000000000
285	D938	5093.6502324000	21.9187206565	100.4999988818	-278.6323164544	78.7501800000	0.0000000000	0.0000000000
286	MBABA19	5096.6514424000	24.8288215014	100.4999988818	-277.9033841258	73.1251900000	0.0000000000	0.0000000000
287	D933	5097.6606240000	25.7945283820	100.4999988818	-277.6104436433	73.1251900000	0.0000000000	0.0000000000
288	MBABA20	5100.6618124000	28.6191686100	100.4999988818	-276.5997820532	67.5002000000	0.0000000000	0.0000000000
289	D934	5102.6956924000	30.4982314304	100.4999988818	-275.8214564329	67.5002000000	0.0000000000	0.0000000000
290	IPMBA21	5102.6956924000	30.4982314304	100.4999988818	-275.8214564329	67.5002000000	0.0000000000	0.0000000000
291	D904	5102.9203424000	30.7057812675	100.4999988818	-275.7354873243	67.5002000000	0.0000000000	0.0000000000
292	MQABA21	5103.2203424000	30.9829455280	100.4999988818	-275.6206832621	67.5002000000	0.0000000000	0.0000000000
293	D909	5103.4134924000	31.1613931177	100.4999988818	-275.5467685800	67.5002000000	0.0000000000	0.0000000000
294	MBC8A21H	5103.4134924100	31.1613931269	100.4999988818	-275.5467685762	67.5002000000	0.0000000000	0.0000000000
295	D939	5105.4788724100	33.0695581948	100.4999988818	-274.7563885294	67.5002000000	0.0000000000	0.0000000000
296	MBABA21	5108.4800824100	35.7815350729	100.4999988818	-273.4737308668	61.8752100000	0.0000000000	0.0000000000
297	D933	5109.4892424100	36.6715364796	100.4999988818	-272.9980193979	61.8752100000	0.0000000000	0.0000000000
298	MBABA22	5112.4904524100	39.2447322810	100.4999988818	-271.4557183134	56.2502200000	0.0000000000	0.0000000000
299	D944	5114.7489824100	41.1226361624	100.4999988818	-270.2009534856	56.2502200000	0.0000000000	0.0000000000
300	IPMBA22	5114.7489824100	41.1226361624	100.4999988818	-270.2009534856	56.2502200000	0.0000000000	0.0000000000
301	MQABA22	5115.0489824100	41.3720776861	100.4999988818	-270.0342833735	56.2502200000	0.0000000000	0.0000000000
302	D912	5115.4382224100	41.6957197483	100.4999988818	-269.8180344587	56.2502200000	0.0000000000	0.0000000000
303	MBC8A22V	5115.4382224200	41.6957197566	100.4999988818	-269.8180344531	56.2502200000	0.0000000000	0.0000000000
304	D940	5118.5096224200	44.2495020758	100.4999988818	-268.1116658452	56.2502200000	0.0000000000	0.0000000000
305	D904	5118.7342724200	44.4362922035	100.4999988818	-267.9868577096	56.2502200000	0.0000000000	0.0000000000
306	MQABA23	5119.0342724200	44.6857337271	100.4999988818	-267.8201875975	56.2502200000	0.0000000000	0.0000000000
307	D909	5119.2274224200	44.8463324948	100.4999988818	-267.7128798236	56.2502200000	0.0000000000	0.0000000000
308	MBC8A23H	5119.2274224300	44.8463325031	100.4999988818	-267.7128798181	56.2502200000	0.0000000000	0.0000000000
309	D941	5122.4949124300	47.5631581169	100.4999988818	-265.8975700692	56.2502200000	0.0000000000	0.0000000000
310	IPMBA24	5122.4949124300	47.5631581169	100.4999988818	-265.8975700692	56.2502200000	0.0000000000	0.0000000000
311	D904	5122.7195624300	47.7499482445	100.4999988818	-265.7727619336	56.2502200000	0.0000000000	0.0000000000
312	MQABA24	5123.0195624300	47.9993897682	100.4999988818	-265.6060918215	56.2502200000	0.0000000000	0.0000000000
313	D912	5123.4088024300	48.3230318304	100.4999988818	-265.3898429067	56.2502200000	0.0000000000	0.0000000

336	MBC8A26V	5147.0660824600	64.7757896198	100.4999988818	-248.6396727570	33.7502600000	0.0000000000	0.0000000000
337	D935	5150.1374924600	66.4821851779	100.4999988818	-246.0858964184	33.7502600000	0.0000000000	0.0000000000
338	D904	5150.3621424600	66.6069948784	100.4999988818	-245.8991073364	33.7502600000	0.0000000000	0.0000000000
339	MQA8A27	5150.6621424600	66.7736670802	100.4999988818	-245.6496672090	33.7502600000	0.0000000000	0.0000000000
340	D909	5150.8552924600	66.8809761995	100.4999988818	-245.4890693404	33.7502600000	0.0000000000	0.0000000000
341	MBC8A27H	5150.8552924700	66.8809762050	100.4999988818	-245.4890693321	33.7502600000	0.0000000000	0.0000000000
342	D943	5154.3474324700	68.8211184147	100.4999988818	-242.5854698442	33.7502600000	0.0000000000	0.0000000000
343	IPM8A28	5154.3474324700	68.8211184147	100.4999988818	-242.5854698442	33.7502600000	0.0000000000	0.0000000000
344	MQA8A28	5154.6474324700	68.9877906165	100.4999988818	-242.3360297169	33.7502600000	0.0000000000	0.0000000000
345	D912	5155.0366724700	69.2040422427	100.4999988818	-242.0123894663	33.7502600000	0.0000000000	0.0000000000
346	MBC8A28V	5155.0366724800	69.2040422482	100.4999988818	-242.0123894580	33.7502600000	0.0000000000	0.0000000000
347	D938	5156.9059624800	70.2425711821	100.4999988818	-240.4581363391	33.7502600000	0.0000000000	0.0000000000
348	MBA8A27	5159.9071724800	71.7848938237	100.4999988818	-237.8849534586	28.1252700000	0.0000000000	0.0000000000
349	D933	5160.9163324800	72.2606127487	100.4999988818	-236.9949560372	28.1252700000	0.0000000000	0.0000000000
350	MBA8A28	5163.9175424800	73.5432931310	100.4999988818	-234.2829899047	22.5002800000	0.0000000000	0.0000000000
351	D934	5165.9514224800	74.3216344932	100.4999988818	-232.4039336048	22.5002800000	0.0000000000	0.0000000000
352	IPM8A29	5165.9514224800	74.3216344932	100.4999988818	-232.4039336048	22.5002800000	0.0000000000	0.0000000000
353	D904	5166.1760724800	74.4076053406	100.4999988818	-232.1963844879	22.5002800000	0.0000000000	0.0000000000
354	MQA8A29	5166.4760724800	74.5224117248	100.4999988818	-231.9192211892	22.5002800000	0.0000000000	0.0000000000
355	D909	5166.6692224800	74.5963279018	100.4999988818	-231.7407742188	22.5002800000	0.0000000000	0.0000000000
356	MBC8A29H	5166.6692224900	74.5963279056	100.4999988818	-231.7407742095	22.5002800000	0.0000000000	0.0000000000
357	D939	5168.7346024900	75.3867239382	100.4999988818	-229.8326157632	22.5002800000	0.0000000000	0.0000000000
358	MBA8A29	5171.7358124900	76.3974091919	100.4999988818	-227.0079840023	16.8752900000	0.0000000000	0.0000000000
359	D933	5172.7449724900	76.6903577647	100.4999988818	-226.0422795758	16.8752900000	0.0000000000	0.0000000000
360	MBA8A30	5175.7461824900	77.4193144729	100.4999988818	-223.1321848377	11.2503000000	0.0000000000	0.0000000000
361	D944	5178.0047124900	77.8599434163	100.4999988818	-220.9170541654	11.2503000000	0.0000000000	0.0000000000
362	IPM8A30	5178.0047124900	77.8599434163	100.4999988818	-220.9170541654	11.2503000000	0.0000000000	0.0000000000
363	MQA8A30	5178.3047124900	77.9184720535	100.4999988818	-220.6228188878	11.2503000000	0.0000000000	0.0000000000
364	D912	5178.6939524900	77.9944110094	100.4999988818	-220.2410584228	11.2503000000	0.0000000000	0.0000000000
365	MBC8A30V	5178.6939525000	77.9944110113	100.4999988818	-220.2410584130	11.2503000000	0.0000000000	0.0000000000
366	D940	5181.7653525000	78.5936271992	100.4999988818	-217.2286776402	11.2503000000	0.0000000000	0.0000000000
367	D904	5181.9900025000	78.6374553937	100.4999988818	-217.0083444565	11.2503000000	0.0000000000	0.0000000000
368	MQA8A31	5182.2900025000	78.6959840309	100.4999988818	-216.7141091788	11.2503000000	0.0000000000	0.0000000000
369	D909	5182.4831525000	78.7336667185	100.4999988818	-216.5246706992	11.2503000000	0.0000000000	0.0000000000
370	MBC8A31H	5182.4831525100	78.7336667204	100.4999988818	-216.5246706894	11.2503000000	0.0000000000	0.0000000000
371	D941	5185.7506425100	79.3711391765	100.4999988818	-213.3199679313	11.2503000000	0.0000000000	0.0000000000
372	IPM8A32	5185.7506425100	79.3711391765	100.4999988818	-213.3199679313	11.2503000000	0.0000000000	0.0000000000
373	D904	5185.9752925100	79.4149673710	100.4999988818	-213.0996347475	11.2503000000	0.0000000000	0.0000000000
374	MQA8A32	5186.2752925100	79.4734960082	100.4999988818	-212.8053994699	11.2503000000	0.0000000000	0.0000000000
375	D912	5186.6645325100	79.5494349641	100.4999988818	-212.4236390049	11.2503000000	0.0000000000	0.0000000000
376	MBC8A32V	5186.6645325200	79.5494349660	100.4999988818	-212.4236389951	11.2503000000	0.0000000000	0.0000000000
377	D938	5188.5338225200	79.9141249536	100.4999988818	-210.5902687878	11.2503000000	0.0000000000	0.0000000000
378	MBA8A31	5191.5350325200	80.3543328886	100.4999988818	-207.6227367761	5.6253100000	0.0000000000	0.0000000000
379	D933	5192.5441925200	80.4532533007	100.4999988818	-206.6184366926	5.6253100000	0.0000000000	0.0000000000
380	MBA8A32	5195.5454025200	80.6004730366	100.4999988818	-203.6220462613	0.0003200000	0.0000000000	0.0000000000
381	D945	5197.2615525200	80.6004826214	100.4999988818	-201.9058962613	0.0003200000	0.0000000000	0.0000000000
382	ITV8R01	5197.2615525200	80.6004826214	100.4999988818	-201.9058962613	0.0003200000	0.0000000000	0.0000000000
383	D946	5197.3631525200	80.6004831888	100.4999988818	-201.8042962613	0.0003200000	0.0000000000	0.0000000000
384	IPM8R01	5197.3631525200	80.6004831888	100.4999988818	-201.8042962613	0.0003200000	0.0000000000	0.0000000000
385	D918	5197.5814525200	80.6004844080	100.4999988818	-201.5859962613	0.0003200000	0.0000000000	0.0000000000
386	MQA8R01	5197.8814525200	80.6004860835	100.4999988818	-201.2859962613	0.0003200000	0.0000000000	0.0000000000
387	D919	5198.0259525200	80.6004868906	100.4999988818	-201.1414962613	0.0003200000	0.0000000000	0.0000000000
388	MQA8R01A	5198.3259525200	80.6004885661	100.4999988818	-200.8414962613	0.0003200000	0.0000000000	0.0000000000
389	D925	5198.5188525200	80.6004896434	100.4999988818	-200.6485962613	0.0003200000	0.0000000000	0.0000000000
390	MBC8R01H	5198.5188525300	80.6004896434	100.4999988818	-200.6485962613	0.0003200000	0.0000000000	0.0000000000
391	D947	5200.5631525300	80.6005010610	100.4999988818	-198.6042962514	0.0003200000	0.0000000000	0.0000000000
392	IPM8R02	5200.5631525300	80.6005010610	100.4999988818	-198.6042962514	0.0003200000	0.0000000000	0.0000000000
393	D918	5200.7814525300	80.6005022802	100.4999988818	-198.3859962514	0.0003200000	0.0000000000	0.0000000000
394	MQA8R02	5201.0814525300	80.6005039557	100.4999988818	-198.0859962514	0.0003200000	0.0000000000	0.0000000000
395	D919	5201.2259525300	80.6005047627	100.4999988818	-197.9414962514	0.0003200000	0.0000000000	0.0000000000
396	MQA8R02A	5201.5259525300	80.6005064383	100.4999988818	-197.6414962514	0.0003200000	0.0000000000	0.0000000000
397	D925	5201.7188525300	80.6005075156	100.4999988818	-197.4485962514	0.0003200000	0.0000000000	0.0000000000
398	MBC8R02H	5201.7188525400	80.6005075156	100.4999988818	-197.4485962514	0.0003200000	0.0000000000	0.0000000000
399	D910	5201.9149425400	80.6005086108	100.4999988818	-197.2525062414	0.0003200000	0.0000000000	0.0000000000
400	MBC8R02V	5201.9149425500	80.6005086108	100.4999988818	-197.2525062314	0.0003200000	0.0000000000	0.0000000000
401	D924	5203.7631525500	80.6005189331	100.4999988818	-195.4042962314	0.0003200000	0.0000000000	0.0000000000
402	IPM8R03	5203.7631525500	80.6005189331	100.4999988818	-195.4042962314	0.0003200000	0.0000000000	0.0000000000
403	D918	5203.9814525500	80.6005201524	100.4999988818	-195.1859962314	0.0003200000	0.0000000000	0.0000000000
404	MQA8R03	5204.2814525500	80.6005218279	100.4999988818	-194.8859962314	0.0003200000	0.0000000000	0.0000000000
405	D919	5204.4259525500	80.6005226349	100.4999988818	-194.7414962314	0.0003200000	0.0000000000	0.0000000000
406	MQA8R03A	5204.7259525500	80.6005243104	100.4999988818	-194.4414962314	0.0003200000	0.0000000000	0.0000000000
407	D925	5204.9188525500	80.6005253878	100.4999988818	-194.2485962314	0.0003200000	0.0000000000	0.0000000000
408	MBC8R03H	5204.9188525600	80.6005253878	100.4999988818	-194.2485962214	0.0003200000	0.0000000000	0.0000000000
409	D947	5206.9631525600	80.6005368053	100.4999988818	-192.2042962215	0.0003200000	0.0000000000	0.0000000000
410	IPM8R04	5206.9631525600	80.6005368053	100.4999988818	-192.2042962215	0.0003200000	0.0000000000	0.0000000000
411	D918	5207.1814525600	80.6005380245	100.4999988818	-191.9859962215	0.0003200000	0.0000000000	0.0000000000
412	MQA8R04	5207.4814525600	80.6005397000	100.4999988818	-191.6859962215	0.0003200000	0.0000000000	0.0000000000
413	D919	5207.6259525600	80.6005405071	100.4999988818	-191.5414962215	0.0003200000	0.0000000000	0.0000000000
414	MQA8R04A	5207.9259525600	80.6005421826	100.4999988818	-191.2414962215	0.0003200000	0.0000000000	0.0000000000
415	D920	5208.1188525600	80.6005432600	100.4999988818	-191.0485962215	0.0003200000	0.0000000000	0.0000000000
416	MBC8R04H	5208.1188525700	80.6005432600	100.4999988818	-191.0485962115	0.0003200000	0.0000000000	0.0000000000
417	D910	5208.3149425700	80.6005443551	100.4999988818	-190.8525062115	0.0003200000	0.0000000000	0.0000

440	MAE8R01	5213.9189226000	80.6005756520	100.4789595228	-185.2488213250	0.0003200000	-2.4111200000	0.0000000000
441	D914	5216.6139226000	80.6005906904	100.3655820496	-182.5562072516	0.0003200000	-2.4111200000	0.0000000000
442	MAE8R03	5217.6139226000	80.6005962742	100.3445426906	-181.5564323950	0.0003200000	0.0000000000	0.0000000000
443	D952A	5220.2716426000	80.6006111173	100.3445426906	-178.8987823950	0.0003200000	0.0000000000	0.0000000000
444	IPM8R08	5220.2716426000	80.6006111173	100.3445426906	-178.8987823950	0.0003200000	0.0000000000	0.0000000000
445	D904	5220.4962926000	80.6006123720	100.3445426906	-178.6741323950	0.0003200000	0.0000000000	0.0000000000
446	MQR8R08	5220.9962926000	80.6006151645	100.3445426906	-178.1741323950	0.0003200000	0.0000000000	0.0000000000
447	D909	5221.1894426000	80.6006162433	100.3445426906	-177.9809823950	0.0003200000	0.0000000000	0.0000000000
448	MBC8R08H	5221.1894426100	80.6006162433	100.3445426906	-177.9809823850	0.0003200000	0.0000000000	0.0000000000
449	D910	5221.3855326100	80.6006173385	100.3445426906	-177.7848923850	0.0003200000	0.0000000000	0.0000000000
450	MBC8R08V	5221.3855326200	80.6006173385	100.3445426906	-177.7848923750	0.0003200000	0.0000000000	0.0000000000
451	D911B	5222.7916426200	80.6006251917	100.3445426906	-176.3787823751	0.0003200000	0.0000000000	0.0000000000
452	IPM8R09	5222.7916426200	80.6006251917	100.3445426906	-176.3787823751	0.0003200000	0.0000000000	0.0000000000
453	D904	5223.0162926200	80.6006264463	100.3445426906	-176.1541323751	0.0003200000	0.0000000000	0.0000000000
454	MQA8R09	5223.3162926200	80.6006281218	100.3445426906	-175.8541323751	0.0003200000	0.0000000000	0.0000000000
455	D909	5223.5094426200	80.6006292006	100.3445426906	-175.6609823751	0.0003200000	0.0000000000	0.0000000000
456	MBC8R09H	5223.5094426300	80.6006292006	100.3445426906	-175.6609823651	0.0003200000	0.0000000000	0.0000000000
457	D953	5226.6916426300	80.6006469734	100.3445426906	-172.4787823651	0.0003200000	0.0000000000	0.0000000000
458	IPM8R10	5226.6916426300	80.6006469734	100.3445426906	-172.4787823651	0.0003200000	0.0000000000	0.0000000000
459	D904	5226.9162926300	80.6006482280	100.3445426906	-172.2541323651	0.0003200000	0.0000000000	0.0000000000
460	MQA8R10	5227.2162926300	80.6006499036	100.3445426906	-171.9541323651	0.0003200000	0.0000000000	0.0000000000
461	D909	5227.4094426300	80.6006509823	100.3445426906	-171.7609823651	0.0003200000	0.0000000000	0.0000000000
462	MBC8R10H	5227.4094426400	80.6006509823	100.3445426906	-171.7609823551	0.0003200000	0.0000000000	0.0000000000
463	D910	5227.6055326400	80.6006520775	100.3445426906	-171.5648923551	0.0003200000	0.0000000000	0.0000000000
464	MBC8R10V	5227.6055326500	80.6006520775	100.3445426906	-171.5648923451	0.0003200000	0.0000000000	0.0000000000
465	D954	5231.2762926500	80.6006725789	100.3445426906	-167.8941323452	0.0003200000	0.0000000000	0.0000000000
466	MAR8RAAH	5231.2762926600	80.6006725789	100.3445426906	-167.8941323352	0.0003200000	0.0000000000	0.0000000000
467	D955	5231.7228126600	80.6006750727	100.3445426906	-167.4476123352	0.0003200000	0.0000000000	0.0000000000
468	MYR8R04	5234.7267726600	80.6006918279	100.2109712817	-164.4476155069	0.0003200000	-5.0986900000	0.0000000000
469	D956	5234.9497006600	80.6006930680	100.1911593307	-164.2255696113	0.0003200000	-5.0986900000	0.0000000000
470	MAX8R05	5235.9521506600	80.6006986531	100.1221432401	-163.2255657635	0.0003200000	-2.7974200000	0.0000000000
471	D957	5237.9545406600	80.6007098232	100.0244170086	-161.2255619396	0.0003200000	-2.7974200000	0.0000000000
472	MAW8R06	5238.9549406600	80.6007154083	100.0000000000	-160.2255593514	0.0003200000	0.0000000000	0.0000000000

1

STOP

Arc9.outd

LDIMAT VERSION 2.9 PROD
ODATE AND TIME OF THIS RUN: 12-JUN-2007 12:48:30

XSIF Parser Version 2.1
Version Date: 01-JAN-2004
Run: 12-JUN-2007 12:48:30
XSIF Parser developed by NLC Department,
Stanford Linear Accelerator Center.

UTRANSPORT

TITLE

CONVERTED FROM .././././OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//ARC9.OPT

- 5 MAQ9S01: SBEND, L=1.00025, ANGLE=2.22977, K1=-0, &
E1=0, E2=2.22978, HGAP=0.01905, &
HGAPX=0.0190502, &
FINT=0.5, TILT=90
- 10 D50069: DRIFT, L=1.00076
MAS9S02: SBEND, L=1.00168, ANGLE=2.06139, K1=-0, &
E1=-2.22978, E2=4.29107, HGAP=0.0239165, &
HGAPX=0.023749, &
FINT=0.5, TILT=90
- 15 D50070: DRIFT, L=0.884359
MYR9S03: SBEND, L=3.00281, ANGLE=-4.29116, K1=-0, &
E1=-4.29117, E2=-0, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=90
- 20 D50071: DRIFT, L=0.599994
MYR9S04: SBEND, L=2.00029, ANGLE=-1.70157, K1=-0, &
E1=-0, E2=-1.70157, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=90
- 25 D50072: DRIFT, L=3.72201
D50073: DRIFT, L=2.7572
D50074A: DRIFT, L=0.33
DA12: DRIFT, L=0.19315
MBC9S03H: GKICK, L=1E-08, DXP=0, DYP=0
DA13: DRIFT, L=0.19609
MBC9S03V: GKICK, L=1E-08, DXP=0, DYP=0
D50074B: DRIFT, L=0.11
IPM9S03: MONITOR, L=0
DA08: DRIFT, L=0.22465
- 35 MQD9S03SK: QUADRUPOLE, L=0.15, K1=0, TILT=45
DA10: DRIFT, L=0.12109
MQA9S01: QUADRUPOLE, L=0.3, K1=0.000674257, TILT=0
D50074C: DRIFT, L=0.29436
MAR9S06: SBEND, L=1.00004, ANGLE=1.70157, K1=-0, &
E1=0.850785, E2=0.850785, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=90
D50075: DRIFT, L=3.20879
IPM9S04: MONITOR, L=0
- 45 MQA9S02: QUADRUPOLE, L=0.3, K1=-0.330601, TILT=0
MBC9S04H: GKICK, L=1E-08, DXP=0, DYP=0
MBC9S04V: GKICK, L=1E-08, DXP=0, DYP=0
DA16: DRIFT, L=3.08611
IPM9S05: MONITOR, L=0
- 50 MQA9S03: QUADRUPOLE, L=0.3, K1=0.540333, TILT=0
MBC9S05H: GKICK, L=1E-08, DXP=0, DYP=0

MBC9S05V: GKICK, L=1E-08, DXP=0, DYP=0
DA17: DRIFT, L=5.08611
IPM9S06: MONITOR, L=0
55 MQA9S04: QUADRUPOLE, L=0.3, K1=-0.300385, TILT=0
MBC9S06H: GKICK, L=1E-08, DXP=0, DYP=0
MBC9S06V: GKICK, L=1E-08, DXP=0, DYP=0
IPM9S07: MONITOR, L=0
MQA9S05: QUADRUPOLE, L=0.3, K1=0.00100632, TILT=0
60 MBC9S07H: GKICK, L=1E-08, DXP=0, DYP=0
MBC9S07V: GKICK, L=1E-08, DXP=0, DYP=0
IPM9S08: MONITOR, L=0
MQA9S06: QUADRUPOLE, L=0.3, K1=0.588993, TILT=0
MBC9S08H: GKICK, L=1E-08, DXP=0, DYP=0
65 MBC9S08V: GKICK, L=1E-08, DXP=0, DYP=0
DA18: DRIFT, L=15.6361
IPM9E01: MONITOR, L=0
MQC9E01: QUADRUPOLE, L=0.3, K1=-0.300356, TILT=0
MEM9E01H: GKICK, L=1E-08, DXP=0, DYP=0
70 MEM9E01V: GKICK, L=1E-08, DXP=0, DYP=0
DA14: DRIFT, L=0.50546
IHA9E01: MONITOR, L=0
DA19: DRIFT, L=0.23029
MBY9E01: SBEND, L=1.00029, ANGLE=-2.40609, K1=-0, &
75 E1=-0, E2=-2.40609, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
DA20: DRIFT, L=5.00442
MBZ9E02: SBEND, L=2.00059, ANGLE=4.81218, K1=-0, &
80 E1=2.40609, E2=2.40609, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
MBY9E03: SBEND, L=1.00029, ANGLE=-2.40609, K1=-0, &
85 E1=-2.40609, E2=-0, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
DA21: DRIFT, L=0.900356
IPM9E02: MONITOR, L=0
MQC9E02: QUADRUPOLE, L=0.3, K1=0.300356, TILT=0
90 MEM9E02H: GKICK, L=1E-08, DXP=0, DYP=0
MEM9E02V: GKICK, L=1E-08, DXP=0, DYP=0
IPM9E03: MONITOR, L=0
MQC9E03: QUADRUPOLE, L=0.3, K1=-0.300356, TILT=0
95 MEM9E03H: GKICK, L=1E-08, DXP=0, DYP=0
MEM9E03V: GKICK, L=1E-08, DXP=0, DYP=0
IPM9A01: MONITOR, L=0
MQA9A01: QUADRUPOLE, L=0.3, K1=0.486236, TILT=0
MBC9A01H: GKICK, L=1E-08, DXP=0, DYP=0
MBC9A01V: GKICK, L=1E-08, DXP=0, DYP=0
100 ITV9A01: MONITOR, L=0
DA22: DRIFT, L=0.84617
MBA9A01: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
105 HGAPX=0.0127, &
FINT=0.5, TILT=0
DA23: DRIFT, L=2.36955
MBA9A02: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
110 HGAPX=0.0127, &
FINT=0.5, TILT=0
DA24: DRIFT, L=1.51623
IPM9A02: MONITOR, L=0
MQA9A02: QUADRUPOLE, L=0.3, K1=-0.593681, TILT=0
DA25: DRIFT, L=0.38924
115 MBC9A02V: GKICK, L=1E-08, DXP=0, DYP=0
DA26: DRIFT, L=2.74293
IPM9A03: MONITOR, L=0
MQA9A03: QUADRUPOLE, L=0.3, K1=1.08592, TILT=0
MBC9A03H: GKICK, L=1E-08, DXP=0, DYP=0
120 DA27: DRIFT, L=0.41809
IHA9A03: MONITOR, L=0
DA28: DRIFT, L=2.52092
IPM9A04: MONITOR, L=0
MQA9A04: QUADRUPOLE, L=0.3, K1=-0.593681, TILT=0
125 MBC9A04V: GKICK, L=1E-08, DXP=0, DYP=0
DA29: DRIFT, L=1.35164
MBA9A03: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
130 HGAPX=0.0127, &
FINT=0.5, TILT=0
MBA9A04: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
135 FINT=0.5, TILT=0
IPM9A05: MONITOR, L=0
MQA9A05: QUADRUPOLE, L=0.3, K1=0.459038, TILT=0
MBC9A05H: GKICK, L=1E-08, DXP=0, DYP=0
DA30A: DRIFT, L=0.70155
140 MBA9A05: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
MBA9A06: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
145 E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
IPM9A06: MONITOR, L=0
MQA9A06: QUADRUPOLE, L=0.3, K1=-0.593681, TILT=0
MBC9A06V: GKICK, L=1E-08, DXP=0, DYP=0
150 DA31: DRIFT, L=2.74292
IPM9A07: MONITOR, L=0
MQA9A07: QUADRUPOLE, L=0.3, K1=1.08592, TILT=0
MBC9A07H: GKICK, L=1E-08, DXP=0, DYP=0
DA32: DRIFT, L=2.93901
155 IPM9A08: MONITOR, L=0

MQA9A08: QUADRUPOLE, L=0.3, K1=-0.593681, TILT=0
MBC9A08V: GKICK, L=1E-08, DXP=0, DYP=0
DA33: DRIFT, L=1.35163
MBA9A07: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
160 E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
MBA9A08: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
165 E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
IPM9A09: MONITOR, L=0
MQA9A09: QUADRUPOLE, L=0.3, K1=0.570279, TILT=0
MBC9A09H: GKICK, L=1E-08, DXP=0, DYP=0
170 DA34: DRIFT, L=0.70155
ITV9A09: MONITOR, L=0
MBA9A09: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
175 FINT=0.5, TILT=0
MBA9A10: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
180 IPM9A10: MONITOR, L=0
MQA9A10: QUADRUPOLE, L=0.3, K1=-0.593681, TILT=0
MBC9A10V: GKICK, L=1E-08, DXP=0, DYP=0
MQA9A11: QUADRUPOLE, L=0.3, K1=1.08592, TILT=0
MBC9A11H: GKICK, L=1E-08, DXP=0, DYP=0
185 DA35: DRIFT, L=3.16366
IPM9A12: MONITOR, L=0
MQA9A12: QUADRUPOLE, L=0.3, K1=-0.593681, TILT=0
MBC9A12V: GKICK, L=1E-08, DXP=0, DYP=0
MBA9A11: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
190 E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
MBA9A12: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
195 E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
IPM9A13: MONITOR, L=0
MQA9A13: QUADRUPOLE, L=0.3, K1=0.459038, TILT=0
MBC9A13H: GKICK, L=1E-08, DXP=0, DYP=0
200 MBA9A13: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
205 MBA9A14: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
DA36: DRIFT, L=1.74089
IPM9A14: MONITOR, L=0
210 MQA9A14: QUADRUPOLE, L=0.3, K1=-0.593681, TILT=0
MBC9A14V: GKICK, L=1E-08, DXP=0, DYP=0
MQA9A15: QUADRUPOLE, L=0.3, K1=1.08592, TILT=0
MBC9A15H: GKICK, L=1E-08, DXP=0, DYP=0
IPM9A16: MONITOR, L=0
215 MQA9A16: QUADRUPOLE, L=0.3, K1=-0.593681, TILT=0
MBC9A16V: GKICK, L=1E-08, DXP=0, DYP=0
MBA9A15: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
220 FINT=0.5, TILT=0
MBA9A16: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
225 IPM9A17: MONITOR, L=0
MQA9A17: QUADRUPOLE, L=0.3, K1=0.570279, TILT=0
MBC9A17H: GKICK, L=1E-08, DXP=0, DYP=0
ITV9A17: MONITOR, L=0
MBA9A17: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
230 E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
MBA9A18: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
235 E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
IPM9A18: MONITOR, L=0
MQA9A18: QUADRUPOLE, L=0.3, K1=-0.593681, TILT=0
MBC9A18V: GKICK, L=1E-08, DXP=0, DYP=0
240 MQA9A19: QUADRUPOLE, L=0.3, K1=1.08592, TILT=0
MBC9A19H: GKICK, L=1E-08, DXP=0, DYP=0
IPM9A20: MONITOR, L=0
MQA9A20: QUADRUPOLE, L=0.3, K1=-0.593681, TILT=0
MBC9A20V: GKICK, L=1E-08, DXP=0, DYP=0
245 MBA9A19: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
MBA9A20: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
250 E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
IPM9A21: MONITOR, L=0
MQA9A21: QUADRUPOLE, L=0.3, K1=0.459038, TILT=0
MBC9A21H: GKICK, L=1E-08, DXP=0, DYP=0
255 MBA9A21: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0

260 MBA9A22: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
 E1=2.8125, E2=2.8125, HGAP=0.0127, &
 HGAPX=0.0127, &
 FINT=0.5, TILT=0
 IPM9A22: MONITOR, L=0

265 MQA9A22: QUADRUPOLE, L=0.3, K1=-0.593681, TILT=0
 MBC9A22V: GKICK, L=1E-08, DXP=0, DYP=0
 MQA9A23: QUADRUPOLE, L=0.3, K1=1.08634, TILT=0
 MBC9A23H: GKICK, L=1E-08, DXP=0, DYP=0
 IPM9A24: MONITOR, L=0

270 MQA9A24: QUADRUPOLE, L=0.3, K1=-0.593681, TILT=0
 MBC9A24V: GKICK, L=1E-08, DXP=0, DYP=0
 MBA9A23: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
 E1=2.8125, E2=2.8125, HGAP=0.0127, &
 HGAPX=0.0127, &
 FINT=0.5, TILT=0

275 MBA9A24: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
 E1=2.8125, E2=2.8125, HGAP=0.0127, &
 HGAPX=0.0127, &
 FINT=0.5, TILT=0

280 IPM9A25: MONITOR, L=0
 MQA9A25: QUADRUPOLE, L=0.3, K1=0.570279, TILT=0
 MBC9A25H: GKICK, L=1E-08, DXP=0, DYP=0
 ITV9A25: MONITOR, L=0

285 MBA9A25: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
 E1=2.8125, E2=2.8125, HGAP=0.0127, &
 HGAPX=0.0127, &
 FINT=0.5, TILT=0

MBA9A26: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
 E1=2.8125, E2=2.8125, HGAP=0.0127, &
 HGAPX=0.0127, &
 FINT=0.5, TILT=0

290 IPM9A26: MONITOR, L=0
 MQA9A26: QUADRUPOLE, L=0.3, K1=-0.593681, TILT=0
 MBC9A26V: GKICK, L=1E-08, DXP=0, DYP=0

295 MQA9A27: QUADRUPOLE, L=0.3, K1=1.08592, TILT=0
 MBC9A27H: GKICK, L=1E-08, DXP=0, DYP=0
 IPM9A28: MONITOR, L=0

300 MQA9A28: QUADRUPOLE, L=0.3, K1=-0.593681, TILT=0
 MBC9A28V: GKICK, L=1E-08, DXP=0, DYP=0

305 MBA9A27: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
 E1=2.8125, E2=2.8125, HGAP=0.0127, &
 HGAPX=0.0127, &
 FINT=0.5, TILT=0

MBA9A28: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
 E1=2.8125, E2=2.8125, HGAP=0.0127, &
 HGAPX=0.0127, &
 FINT=0.5, TILT=0

310 IPM9A29: MONITOR, L=0
 MQA9A29: QUADRUPOLE, L=0.3, K1=0.459038, TILT=0
 MBC9A29H: GKICK, L=1E-08, DXP=0, DYP=0
 DA30: DRIFT, L=1.54772

MBA9A29: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
 E1=2.8125, E2=2.8125, HGAP=0.0127, &
 HGAPX=0.0127, &
 FINT=0.5, TILT=0

315 MBA9A30: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
 E1=2.8125, E2=2.8125, HGAP=0.0127, &
 HGAPX=0.0127, &
 FINT=0.5, TILT=0

320 IPM9A30: MONITOR, L=0
 MQA9A30: QUADRUPOLE, L=0.3, K1=-0.593681, TILT=0
 MBC9A30V: GKICK, L=1E-08, DXP=0, DYP=0
 MQA9A31: QUADRUPOLE, L=0.3, K1=1.08648, TILT=0
 MBC9A31H: GKICK, L=1E-08, DXP=0, DYP=0
 IPM9A32: MONITOR, L=0

325 MQA9A32: QUADRUPOLE, L=0.3, K1=-0.593681, TILT=0
 MBC9A32V: GKICK, L=1E-08, DXP=0, DYP=0
 MBA9A31: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
 E1=2.8125, E2=2.8125, HGAP=0.0127, &
 HGAPX=0.0127, &
 FINT=0.5, TILT=0

330 MBA9A32: SBEND, L=3.00121, ANGLE=5.62499, K1=-0.217906, &
 E1=2.8125, E2=2.8125, HGAP=0.0127, &
 HGAPX=0.0127, &
 FINT=0.5, TILT=0

335 IPM9R01: MONITOR, L=0
 MQA9R01: QUADRUPOLE, L=0.3, K1=0.463695, TILT=0
 MBC9R01H: GKICK, L=1E-08, DXP=0, DYP=0
 ITV9R01: MONITOR, L=0

340 DA37: DRIFT, L=4.58065
 IPM9R02: MONITOR, L=0
 MQA9R02: QUADRUPOLE, L=0.3, K1=0.422633, TILT=0
 MBC9R02H: GKICK, L=1E-08, DXP=0, DYP=0
 MBC9R02V: GKICK, L=1E-08, DXP=0, DYP=0

345 IPM9R03: MONITOR, L=0
 MQA9R03: QUADRUPOLE, L=0.3, K1=-0.503469, TILT=0
 MBC9R03H: GKICK, L=1E-08, DXP=0, DYP=0
 MBC9R03V: GKICK, L=1E-08, DXP=0, DYP=0
 IPM9R04: MONITOR, L=0

350 MQA9R04: QUADRUPOLE, L=0.3, K1=0.701768, TILT=0
 MBC9R04H: GKICK, L=1E-08, DXP=0, DYP=0
 MBC9R04V: GKICK, L=1E-08, DXP=0, DYP=0
 ITV9R04: MONITOR, L=0
 DA38: DRIFT, L=2.39015

355 IPM9R05: MONITOR, L=0
 MQA9R05: QUADRUPOLE, L=0.3, K1=-0.342663, TILT=0
 MBC9R05H: GKICK, L=1E-08, DXP=0, DYP=0
 MBC9R05V: GKICK, L=1E-08, DXP=0, DYP=0
 D50075A: DRIFT, L=3.23471

360 MAR9R01: SBEND, L=1.00004, ANGLE=1.70157, K1=-0, &
 E1=0.850785, E2=0.850785, HGAP=0.0127, &
 HGAPX=0.0127, &
 FINT=0.5, TILT=90

365 DA11: DRIFT, L=1.2447
MQA9R06: QUADRUPOLE, L=0.3, K1=-0.0091117, TILT=0
IPM9R06: MONITOR, L=0
MBC9R06H: GKICK, L=1E-08, DXP=0, DYP=0
MBC9R06V: GKICK, L=1E-08, DXP=0, DYP=0
DA16A: DRIFT, L=2.79331
370 IPM9R07: MONITOR, L=0
MQA9R07: QUADRUPOLE, L=0.3, K1=0.00556813, TILT=0
MBC9R07H: GKICK, L=1E-08, DXP=0, DYP=0
MBC9R07V: GKICK, L=1E-08, DXP=0, DYP=0
DA39: DRIFT, L=2.75741
375 MYR9R03: SBEND, L=2.00029, ANGLE=-1.70157, K1=-0, &
E1=-0, E2=-1.70157, HGAP=0.012728, &
HGAPX=0.012672, &
FINT=0.5, TILT=90
MYR9R04: SBEND, L=3.00281, ANGLE=-4.29116, K1=-0, &
380 E1=-1.70157, E2=-0, HGAP=0.012679, &
HGAPX=0.0127, &
FINT=0.5, TILT=90
MAS9R05: SBEND, L=1.00168, ANGLE=2.06139, K1=-0, &
E1=4.29107, E2=-3.76978, HGAP=0.023749, &
385 HGAPX=0.023749, &
FINT=0.5, TILT=90
MAQ9R06: SBEND, L=1.00025, ANGLE=2.22977, K1=-0, &
E1=2.22978, E2=0, HGAP=0.0190502, &
390 HGAPX=0.01905, &
FINT=0.5, TILT=90

ARC9: LINE=(MAQ9S01, &
D50069, MAS9S02, D50070, MYR9S03, D50071, &
MYR9S04, D50072, D50073, D50074A, DA12, &
395 MBC9S03H, DA13, MBC9S03V, D50074B, IPM9S03, &
DA08, MQD9S03SK, DA10, MQA9S01, D50074C, &
MAR9S06, D50075, IPM9S04, DA08, MQA9S02, &
DA12, MBC9S04H, DA13, MBC9S04V, DA16, &
400 IPM9S05, DA08, MQA9S03, DA12, MBC9S05H, &
DA13, MBC9S05V, DA17, IPM9S06, DA08, &
MQA9S04, DA12, MBC9S06H, DA13, MBC9S06V, &
DA17, IPM9S07, DA08, MQA9S05, DA12, &
MBC9S07H, DA13, MBC9S07V, DA17, IPM9S08, &
DA08, MQA9S06, DA12, MBC9S08H, DA13, &
405 MBC9S08V, DA18, IPM9E01, DA08, MQC9E01, &
DA12, MBM9E01H, DA13, MBM9E01V, DA14, &
IHA9E01, DA19, MBY9E01, DA20, MBZ9E02, &
DA20, MBY9E03, DA21, IPM9E02, DA08, &
MQC9E02, DA12, MBM9E02H, DA13, MBM9E02V, &
410 DA18, IPM9E03, DA08, MQC9E03, DA12, &
MBM9E03H, DA13, MBM9E03V, DA18, IPM9A01, &
DA08, MQA9A01, DA12, MBC9A01H, DA13, &
MBC9A01V, DA14, ITV9A01, DA22, MBA9A01, &
415 DA23, MBA9A02, DA24, IPM9A02, DA08, &
MQA9A02, DA25, MBC9A02V, DA26, IPM9A03, &
DA08, MQA9A03, DA12, MBC9A03H, DA27, &
IHA9A03, DA28, IPM9A04, DA08, MQA9A04, &
DA25, MBC9A04V, DA29, MBA9A03, DA23, &
MBA9A04, DA24, IPM9A05, DA08, MQA9A05, &
420 DA12, MBC9A05H, DA30A, DA22, MBA9A05, &
DA23, MBA9A06, DA24, IPM9A06, DA08, &
MQA9A06, DA25, MBC9A06V, DA31, IPM9A07, &
DA08, MQA9A07, DA12, MBC9A07H, DA32, &
IPM9A08, DA08, MQA9A08, DA25, MBC9A08V, &
425 DA33, MBA9A07, DA23, MBA9A08, DA24, &
IPM9A09, DA08, MQA9A09, DA12, MBC9A09H, &
DA34, ITV9A09, DA22, MBA9A09, DA23, &
MBA9A10, DA24, IPM9A10, DA08, MQA9A10, &
DA25, MBC9A10V, DA26, DA08, MQA9A11, &
430 DA12, MBC9A11H, DA35, IPM9A12, MQA9A12, &
DA25, MBC9A12V, DA29, MBA9A11, DA23, &
MBA9A12, DA24, IPM9A13, DA08, MQA9A13, &
DA25, MBC9A13H, DA33, MBA9A13, DA23, &
MBA9A14, DA36, IPM9A14, MQA9A14, DA25, &
435 MBC9A14V, DA31, DA08, MQA9A15, DA12, &
MBC9A15H, DA32, IPM9A16, DA08, MQA9A16, &
DA25, MBC9A16V, DA33, MBA9A15, DA23, &
MBA9A16, DA24, IPM9A17, DA08, MQA9A17, &
DA12, MBC9A17H, DA34, ITV9A17, DA22, &
440 MBA9A17, DA23, MBA9A18, DA24, IPM9A18, &
DA08, MQA9A18, DA25, MBC9A18V, DA26, &
DA08, MQA9A19, DA12, MBC9A19H, DA35, &
IPM9A20, MQA9A20, DA25, MBC9A20V, DA29, &
MBA9A19, DA23, MBA9A20, DA24, IPM9A21, &
445 DA08, MQA9A21, DA25, MBC9A21H, DA33, &
MBA9A21, DA23, MBA9A22, DA36, IPM9A22, &
MQA9A22, DA25, MBC9A22V, DA31, DA08, &
MQA9A23, DA12, MBC9A23H, DA32, IPM9A24, &
DA08, MQA9A24, DA25, MBC9A24V, DA33, &
450 MBA9A23, DA23, MBA9A24, DA24, IPM9A25, &
DA08, MQA9A25, DA12, MBC9A25H, DA34, &
ITV9A25, DA22, MBA9A25, DA23, MBA9A26, &
DA24, IPM9A26, DA08, MQA9A26, DA25, &
MBC9A26V, DA26, DA08, MQA9A27, DA12, &
455 MBC9A27H, DA35, IPM9A28, MQA9A28, DA25, &
MBC9A28V, DA29, MBA9A27, DA23, MBA9A28, &
DA24, IPM9A29, DA08, MQA9A29, DA12, &
MBC9A29H, DA30, MBA9A29, DA23, MBA9A30, &
DA36, IPM9A30, MQA9A30, DA25, MBC9A30V, &
460 DA31, DA08, MQA9A31, DA12, MBC9A31H, &
DA32, IPM9A32, DA08, MQA9A32, DA25, &
MBC9A32V, DA33, MBA9A31, DA23, MBA9A32, &
DA24, IPM9R01, DA08, MQA9R01, DA12, &
MBC9R01H, DA34, ITV9R01, DA37, IPM9R02, &
465 DA08, MQA9R02, DA12, MBC9R02H, DA13, &
MBC9R02V, DA17, IPM9R03, DA08, MQA9R03, &
DA12, MBC9R03H, DA13, MBC9R03V, DA17, &


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IPM9R04, DA08, MQA9R04, DA12, MBC9R04H, &
DA13, MBC9R04V, DA14, ITV9R04, DA38, &
470 IPM9R05, DA08, MQA9R05, DA12, MBC9R05H, &
DA13, MBC9R05V, D50075A, MAR9R01, DA11, &
MQA9R06, IPM9R06, DA12, MBC9R06H, DA13, &
MBC9R06V, DA16A, IPM9R07, DA08, MQA9R07, &
475 DA12, MBC9R07H, DA13, MBC9R07V, DA39, &
MYR9R03, D50071, MYR9R04, D50070, MAS9R05, &
D50069, MQ9R06)
USE, ARC9
DIMAT
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*****
* DIMAD PROGRAM : LAST MODIFIED ON May 27, 2005 *
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1
CONVERTED FROM ../../OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//ARC9.OPT

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TOTAL LENGTH OF MACHINE IS: 408.123 METERS

IN THIS RUN THERE ARE :
250 DISTINCT ELEMENTS. ALLOCATED MXELMD : 251
418 ELEMENTS IN MACHINE. ALLOCATED MXPOS_D : 420
94 MATRICES DEFINED. ALLOCATED MAXMAT : 95
1828 VALUES IN ELDAT. ALLOCATED MAXDAT : 1828
0 LCAVs. ALLOCATED MX_LCAV : 1

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1
OPERATION LIST ,

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MACHINE

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1 2 1 0 1 1 1
262.495 3.04563 0 0
153.764 -1.51197 0 0
0,

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ELEMENT	#	BETAX	ALPHAX	BETAY	ALPHAY	ETAX	ETAPX	ETAY	ETAPY	NUX	NUY	ACC.LEN
\$\$INITIAL\$\$	0	262.4950	3.0456	153.7640	-1.5120	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.000
MAQ9S01	1	256.4564	3.3802	156.5743	-1.5334	0.0000	0.0000	0.0195	0.0389	0.00061	0.00103	1.000
D50069	2	249.7394	3.3317	159.6647	-1.5548	0.0000	0.0000	0.0584	0.0389	0.00124	0.00203	2.001
MAS9S02	3	243.8196	3.5847	162.1407	-1.5762	0.0000	0.0000	0.1153	0.0750	0.00189	0.00302	3.003
D50070	4	237.5237	3.5345	164.9455	-1.5953	0.0000	0.0000	0.1817	0.0750	0.00247	0.00388	3.887
MYR9S03	5	214.2772	3.7628	175.6660	-1.6595	0.0000	0.0000	0.2949	0.0000	0.00459	0.00669	6.890
D50071	6	209.7874	3.7203	177.6651	-1.6724	0.0000	0.0000	0.2949	0.0000	0.00504	0.00723	7.490
MYR9S04	7	195.1892	3.6638	184.2805	-1.7151	0.0000	0.0000	0.2651	-0.0297	0.00662	0.00899	9.490
D50072	8	168.9392	3.3888	197.3442	-1.7947	0.0000	0.0000	0.1545	-0.0297	0.00988	0.01210	13.212
D50073	9	150.8138	3.1850	207.4037	-1.8537	0.0000	0.0000	0.0726	-0.0297	0.01263	0.01426	15.969
D50074A	10	148.7197	3.1607	208.6295	-1.8608	0.0000	0.0000	0.0628	-0.0297	0.01298	0.01452	16.299
DA12	11	147.5015	3.1464	209.3491	-1.8649	0.0000	0.0000	0.0571	-0.0297	0.01319	0.01466	16.493
MBC9S03H	12	147.5015	3.1464	209.3491	-1.8649	0.0000	0.0000	0.0571	-0.0297	0.01319	0.01466	16.493
DA13	13	146.2704	3.1319	210.0813	-1.8691	0.0000	0.0000	0.0512	-0.0297	0.01340	0.01481	16.689
MBC9S03V	14	146.2704	3.1319	210.0813	-1.8691	0.0000	0.0000	0.0512	-0.0297	0.01340	0.01481	16.689
D50074B	15	145.5823	3.1238	210.4928	-1.8715	0.0000	0.0000	0.0480	-0.0297	0.01352	0.01490	16.799
IPM9S03	16	145.5823	3.1238	210.4928	-1.8715	0.0000	0.0000	0.0480	-0.0297	0.01352	0.01490	16.799
DA08	17	144.1825	3.1072	211.3347	-1.8763	0.0000	0.0000	0.0413	-0.0297	0.01377	0.01507	17.023
MQD9S03S	18	143.2520	3.0961	211.8980	-1.8795	0.0000	0.0000	0.0368	-0.0297	0.01393	0.01518	17.173
DA10	19	142.5033	3.0871	212.3535	-1.8821	0.0000	0.0000	0.0332	-0.0297	0.01407	0.01527	17.294
MQA9S01	20	140.6491	3.0934	213.4976	-1.9317	0.0000	0.0000	0.0243	-0.0297	0.01440	0.01549	17.594
D50074C	21	138.8345	3.0713	214.6367	-1.9382	0.0000	0.0000	0.0156	-0.0297	0.01474	0.01571	17.889
MAR9S06	22	132.6501	3.1102	218.5348	-1.9603	0.0000	0.0000	0.0007	0.0000	0.01591	0.01645	18.889
D50075	23	113.5188	2.8520	231.3436	-2.0314	0.0000	0.0000	0.0007	0.0000	0.02007	0.01872	22.098
IPM9S04	24	113.5188	2.8520	231.3436	-2.0314	0.0000	0.0000	0.0007	0.0000	0.02007	0.01872	22.098
DA08	25	112.2415	2.8339	232.2575	-2.0364	0.0000	0.0000	0.0007	0.0000	0.02039	0.01887	22.322
MQA9S02	26	113.8874	-8.3747	226.6149	20.6582	0.0000	0.0000	0.0007	-0.0001	0.02081	0.01908	22.622
DA12	27	117.1458	-8.4953	218.7050	20.2936	0.0000	0.0000	0.0007	-0.0001	0.02108	0.01922	22.815
MBC9S04H	28	117.1458	-8.4953	218.7050	20.2936	0.0000	0.0000	0.0007	-0.0001	0.02108	0.01922	22.815
DA13	29	120.5015	-8.6178	210.8189	19.9235	0.0000	0.0000	0.0007	-0.0001	0.02134	0.01936	23.011
MBC9S04V	30	120.5015	-8.6178	210.8189	19.9235	0.0000	0.0000	0.0007	-0.0001	0.02134	0.01936	23.011
DA16	31	179.6413	-10.5454	105.8247	14.0981	0.0000	0.0000	0.0005	-0.0001	0.02468	0.02265	26.098
IPM9S05	32	179.6413	-10.5454	105.8247	14.0981	0.0000	0.0000	0.0005	-0.0001	0.02468	0.02265	26.098
DA08	33	184.4109	-10.6857	99.5857	13.6740	0.0000	0.0000	0.0004	-0.0001	0.02488	0.02300	26.322
MQA9S03	34	181.8483	19.0887	96.2072	-2.2304	0.0000	0.0000	0.0004	0.0000	0.02514	0.02349	26.622
DA12	35	174.5493	18.7006	97.0711	-2.2424	0.0000	0.0000	0.0004	0.0000	0.02531	0.02381	26.815
MBC9S05H	36	174.5493	18.7006	97.0711	-2.2424	0.0000	0.0000	0.0004	0.0000	0.02531	0.02381	26.815
DA13	37	167.2925	18.3066	97.9529	-2.2546	0.0000	0.0000	0.0004	0.0000	0.02549	0.02413	27.011
MBC9S05V	38	167.2925	18.3066	97.9529	-2.2546	0.0000	0.0000	0.0004	0.0000	0.02549	0.02413	27.011
DA17	39	33.0499	8.0874	122.4940	-2.5705	0.0000	0.0000	0.0004	0.0000	0.03639	0.03152	32.098
IPM9S06	40	33.0499	8.0874	122.4940	-2.5705	0.0000	0.0000	0.0004	0.0000	0.03639	0.03152	32.098
DA08	41	29.5176	7.6360	123.6521	-2.5844	0.0000	0.0000	0.0004	0.0000	0.03753	0.03181	32.322
MQA9S04	42	25.8407	4.7307	121.8676	8.4790	0.0000	0.0000	0.0004	0.0000	0.03927	0.03220	32.622
DA12	43	24.0470	4.5559	118.6145	8.3634	0.0000	0.0000	0.0004	0.0000	0.04050	0.03246	32.815

MBC9S06H	44	24.0470	4.5559	118.6145	8.3634	0.0000	0.0000	0.0004	0.0000	0.04050	0.03246	32.815
DA13	45	22.2950	4.3785	115.3575	8.2461	0.0000	0.0000	0.0004	0.0000	0.04185	0.03272	33.011
MBC9S06V	46	22.2950	4.3785	115.3575	8.2461	0.0000	0.0000	0.0004	0.0000	0.04185	0.03272	33.011
DA17	47	1.1603	-0.2232	46.9487	5.2040	0.0000	0.0000	0.0002	0.0000	0.29106	0.04373	38.098
IPM9S07	48	1.1603	-0.2232	46.9487	5.2040	0.0000	0.0000	0.0002	0.0000	0.29106	0.04373	38.098
DA08	49	1.3062	-0.4264	44.6407	5.0696	0.0000	0.0000	0.0002	0.0000	0.32026	0.04451	38.322
MQA9S05	50	1.6434	-0.6973	41.6566	4.8776	0.0000	0.0000	0.0002	0.0000	0.35308	0.04562	38.622
DA12	51	1.9465	-0.8720	39.7946	4.7627	0.0000	0.0000	0.0002	0.0000	0.37030	0.04637	38.815
MBC9S07H	52	1.9465	-0.8720	39.7946	4.7627	0.0000	0.0000	0.0002	0.0000	0.37030	0.04637	38.815
DA13	53	2.3233	-1.0494	37.9497	4.6460	0.0000	0.0000	0.0002	0.0000	0.38500	0.04718	39.011
MBC9S07V	54	2.3233	-1.0494	37.9497	4.6460	0.0000	0.0000	0.0002	0.0000	0.38500	0.04718	39.011
DA17	55	36.3937	-5.6493	6.0851	1.6191	0.0000	0.0000	0.0000	0.0000	0.47828	0.10149	44.098
IPM9S08	56	36.3937	-5.6493	6.0851	1.6191	0.0000	0.0000	0.0000	0.0000	0.47828	0.10149	44.098
DA08	57	38.9776	-5.8525	5.3876	1.4854	0.0000	0.0000	0.0000	0.0000	0.47923	0.10774	44.322
MQA9S06	58	40.4163	1.1417	4.8098	0.4748	0.0000	0.0000	-0.0001	0.0000	0.48043	0.11721	44.622
DA12	59	39.9774	1.1307	4.6359	0.4255	0.0000	0.0000	-0.0001	0.0000	0.48119	0.12372	44.815
MBC9S08H	60	39.9774	1.1307	4.6359	0.4255	0.0000	0.0000	-0.0001	0.0000	0.48119	0.12372	44.815
DA13	61	39.5362	1.1195	4.4788	0.3756	0.0000	0.0000	-0.0001	0.0000	0.48197	0.13057	45.011
MBC9S08V	62	39.5362	1.1195	4.4788	0.3756	0.0000	0.0000	-0.0001	0.0000	0.48197	0.13057	45.011
DA18	63	18.4613	0.2284	55.0216	-3.6080	0.0000	0.0000	-0.0008	0.0000	0.58021	0.39472	60.648
IPM9E01	64	18.4613	0.2284	55.0216	-3.6080	0.0000	0.0000	-0.0008	0.0000	0.58021	0.39472	60.648
DA08	65	18.3616	0.2155	56.6556	-3.6653	0.0000	0.0000	-0.0008	0.0000	0.58215	0.39536	60.872
MQC9E01	66	18.7359	-1.4746	57.3203	1.4696	0.0000	0.0000	-0.0008	0.0000	0.58473	0.39620	61.172
DA12	67	19.3119	-1.5073	56.7546	1.4590	0.0000	0.0000	-0.0008	0.0000	0.58635	0.39674	61.365
MBM9E01H	68	19.3119	-1.5073	56.7546	1.4590	0.0000	0.0000	-0.0008	0.0000	0.58635	0.39674	61.365
DA13	69	19.9095	-1.5405	56.1846	1.4481	0.0000	0.0000	-0.0008	0.0000	0.58794	0.39729	61.561
MBM9E01V	70	19.9095	-1.5405	56.1846	1.4481	0.0000	0.0000	-0.0008	0.0000	0.58794	0.39729	61.561
DA14	71	21.5101	-1.6262	54.7347	1.4203	0.0000	0.0000	-0.0008	0.0000	0.59183	0.39874	62.067
IHA9E01	72	21.5101	-1.6262	54.7347	1.4203	0.0000	0.0000	-0.0008	0.0000	0.59183	0.39874	62.067
DA19	73	22.2681	-1.6652	54.0835	1.4076	0.0000	0.0000	-0.0008	0.0000	0.59351	0.39941	62.297
MBY9E01	74	25.7257	-1.8348	51.3226	1.4430	-0.0210	-0.0420	-0.0008	0.0000	0.60016	0.40243	63.297
DA20	75	48.3402	-2.6841	38.3841	1.1424	-0.2313	-0.0420	-0.0006	0.0000	0.62282	0.42042	68.302
MBZ9E02	76	59.7450	-3.0233	33.7990	1.1413	-0.2313	-0.0420	-0.0006	0.0000	0.62874	0.42926	70.302
DA20	77	94.2555	-3.8727	24.0819	0.8004	-0.0210	0.0420	-0.0004	0.0000	0.63936	0.45733	75.307
MBY9E03	78	102.3438	-4.0423	22.4667	0.7718	0.0000	0.0000	-0.0004	0.0000	0.64098	0.46417	76.307
DA21	79	109.7601	-4.1948	21.1344	0.7079	0.0000	0.0000	-0.0004	0.0000	0.64233	0.47075	77.208
IPM9E02	80	109.7601	-4.1948	21.1344	0.7079	0.0000	0.0000	-0.0004	0.0000	0.64233	0.47075	77.208
DA08	81	111.6533	-4.2329	20.8200	0.6919	0.0000	0.0000	-0.0003	0.0000	0.64266	0.47245	77.432
MQC9E02	82	111.1715	5.8244	20.9717	-1.2020	0.0000	0.0000	-0.0003	0.0000	0.64308	0.47475	77.732
DA12	83	108.9333	5.7637	21.4404	-1.2246	0.0000	0.0000	-0.0003	0.0000	0.64336	0.47620	77.925
MBM9E02H	84	108.9333	5.7637	21.4404	-1.2246	0.0000	0.0000	-0.0003	0.0000	0.64336	0.47620	77.925
DA13	85	106.6849	5.7021	21.9251	-1.2474	0.0000	0.0000	-0.0003	0.0000	0.64365	0.47764	78.121
MBM9E02V	86	106.6849	5.7021	21.9251	-1.2474	0.0000	0.0000	-0.0003	0.0000	0.64365	0.47764	78.121
DA18	87	5.1708	0.7902	89.4373	-3.0703	0.0000	0.0000	-0.0003	0.0000	0.75959	0.53508	93.758
IPM9E03	88	5.1708	0.7902	89.4373	-3.0703	0.0000	0.0000	-0.0003	0.0000	0.75959	0.53508	93.758
DA08	89	4.8316	0.7196	90.8227	-3.0965	0.0000	0.0000	-0.0003	0.0000	0.76675	0.53547	93.982
MQC9E03	90	4.5524	0.2197	90.2246	5.0721	0.0000	0.0000	-0.0003	0.0000	0.77698	0.53600	94.282
DA12	91	4.4761	0.1752	88.2763	5.0149	0.0000	0.0000	-0.0003	0.0000	0.78379	0.53634	94.475
MBM9E03H	92	4.4761	0.1752	88.2763	5.0149	0.0000	0.0000	-0.0003	0.0000	0.78379	0.53634	94.475
DA13	93	4.4163	0.1300	86.3209	4.9568	0.0000	0.0000	-0.0003	0.0000	0.79081	0.53670	94.671
MBM9E03V	94	4.4163	0.1300	86.3209	4.9568	0.0000	0.0000	-0.0003	0.0000	0.79081	0.53670	94.671
DA18	95	56.6468	-3.4704	3.7326	0.3251	0.0000	0.0000	0.0002	0.0000	1.01674	0.70499	110.307
IPM9A01	96	56.6468	-3.4704	3.7326	0.3251	0.0000	0.0000	0.0002	0.0000	1.01674	0.70499	110.307
DA08	97	58.2176	-3.5221	3.6015	0.2585	0.0000	0.0000	0.0002	0.0000	1.01736	0.71475	110.532
MQA9A01	98	57.7795	4.9612	3.6288	-0.3508	0.0000	0.0000	0.0002	0.0001	1.01818	0.72807	110.832
DA12	99	55.8795	4.8756	3.7758	-0.4106	0.0000	0.0000	0.0002	0.0001	1.01872	0.73638	111.025
MBC9A01H	100	55.8795	4.8756	3.7758	-0.4106	0.0000	0.0000	0.0002	0.0001	1.01872	0.73638	111.025
DA13	101	53.9844	4.7887	3.9488	-0.4713	0.0000	0.0000	0.0002	0.0001	1.01929	0.74447	111.221
MBC9A01V	102	53.9844	4.7887	3.9488	-0.4713	0.0000	0.0000	0.0002	0.0001	1.01929	0.74447	111.221
DA14	103	49.2567	4.5646	4.5042	-0.6277	0.0000	0.0000	0.0002	0.0001	1.02085	0.76359	111.727
ITV9A01	104	49.2567	4.5646	4.5042	-0.6277	0.0000	0.0000	0.0002	0.0001	1.02085	0.76359	111.727
DA22	105	41.8492	4.1895	5.7881	-0.8896	0.0000	0.0000	0.0003	0.0001	1.02382	0.79008	112.573
MBA9A01	106	20.6671	2.8748	13.8562	-1.7877	0.1472	0.0982	0.0004	0.0001	1.04005	0.84449	115.574
DA23	107	9.5602	1.8126	24.0286	-2.5053	0.3799	0.0982	0.0006	0.0001	1.06701	0.86522	117.944
MBA9A02	108	2.7148	0.4704	41.5657	-3.3142	0.8209	0.1961	0.0007	0.0001	1.16705	0.88036	120.945
DA24	109	2.3225	-0.2117	52.2787	-3.7514	1.1182	0.1961	0.0008	0.0001	1.27023	0.88554	122.461
IPM9A02	110	2.3225	-0.2117	52.2787	-3.7514	1.1182	0.1961	0.0008	0.0001	1.27023	0.88554	122.461
DA08	111	2.4404	-0.3128	53.9788	-3.8162	1.1622	0.1961	0.0008	0.0001	1.28527	0.88621	122.686
MQA9A02	112	2.8087	-0.9369	53.3801	-5.7760	1.2528	0.4102	0.0008	-0.0001	1.30371	0.88709	122.986
DA25	113	3.6394	-1.1971	48.9811	5.5255	1.4124	0.4102	0.0008	-0.0001	1.32313	0.88831	123.375
MBC9A02V	114	3.6394	-1.1971	48.9811	5.5255	1.4124	0.4102	0.0008	-0.0001	1.32313	0.88831	123.375
DA26	115	15.2365	-3.0309	23.5124	3.7598	2.5375	0.4102	0.0005	-0.0001	1.38317	0.90118	126.118
IPM9A03	116	15.2365	-3.0309	23.5124	3.7598	2.5375	0.4102	0.0005	-0.0001	1.38317	0.90118	126.118
DA08	117	16.6321	-3.1811	21.8557	3.6151	2.6296	0.4102	0.0005	-0.0001	1.38542	0.90276	126.343
MQA9A03	118	16.9038	2.3051	21.8088	-3.4540	2.6232	-0.4525	0.0005	0.0001	1.38822	0.90498	126.643
DA12	119	16.0273	2.2329	23.1652	-3.5685	2.5358	-0.4525	0.0005	0.0001	1.39009	0.90635	126.836
MBC9A03H	120	16.0273	2.2329	23.1652	-3.5685	2.5358	-0.4525	0.0005	0.0001	1.39009	0.90635	126.836
DA27	121	14.2254	2.0768	26.2527	-3.8164	2.3467	-0.4525	0.0005	0.0001	1.39449	0.90905	127.254
IHA9A03	122	14.2254	2.0768	26.2527	-3.8164	2.3467	-0.4525	0.0005	0.0001	1.39449	0.90905	127.254
DA28	123	6.1281	1.1353	49.2619	-5.3109	1.2060	-0.4525	0.0007	0.0001	1.43801	0.92022	129.775
IPM9A04	124	6.1281	1.1353	49.2619	-5.3109	1.2060	-0.4525	0.0007	0.0001	1.43801	0.92022	129.775
DA08	125	5.6369	1.0513	51.6781	-5.4441	1.1043	-0.4525	0.0007	0.0001	1.44409	0.92092	129.999
MQA9A04	126	5.3242	0.0095	52.1695	3.8355	0.9970	-0.2662	0.0007	-0.0001	1.45289	0.92184	130.299
DA25	127	5.3452	-0.0636	49.2292	3.7183	0.8934	-0.2662	0.0007	-0.			

DA25	148	6.7642	-1.1904	51.8056	5.7581	1.2589	0.4476	-0.0008	0.0001	1.83290	1.28107	154.996
MBC9A06V	149	6.7642	-1.1904	51.8056	5.7581	1.2589	0.4476	-0.0008	0.0001	1.83290	1.28107	154.996
DA31	150	15.9832	-2.1706	25.1778	3.9497	2.4865	0.4476	-0.0006	0.0001	1.87539	1.29317	157.739
IPM9A07	151	15.9832	-2.1706	25.1778	3.9497	2.4865	0.4476	-0.0006	0.0001	1.87539	1.29317	157.739
DA08	152	16.9765	-2.2509	23.4365	3.8016	2.5871	0.4476	-0.0006	0.0001	1.87756	1.29464	157.964
MQA9A07	153	16.6661	3.2518	23.4314	-3.7841	2.5938	-0.4033	-0.0006	-0.0001	1.88035	1.29671	158.264
DA12	154	15.4358	3.1176	24.9176	-3.9104	2.5159	-0.4033	-0.0006	-0.0001	1.88227	1.29798	158.457
MBC9A07H	155	15.4358	3.1176	24.9176	-3.9104	2.5159	-0.4033	-0.0006	-0.0001	1.88227	1.29798	158.457
DA32	156	3.1089	1.0766	53.5502	-5.8319	1.3306	-0.4033	-0.0009	-0.0001	1.95200	1.31080	161.396
IPM9A08	157	3.1089	1.0766	53.5502	-5.8319	1.3306	-0.4033	-0.0009	-0.0001	1.95200	1.31080	161.396
DA08	158	2.6602	0.9206	56.2035	-5.9788	1.2400	-0.4033	-0.0009	-0.0001	1.96445	1.31145	161.621
MQA9A08	159	2.2963	0.3140	56.7722	4.1169	1.1512	-0.1913	-0.0009	0.0001	1.98398	1.31229	161.921
DA25	160	2.1244	0.1278	53.6151	3.9939	1.0768	-0.1913	-0.0009	0.0001	2.01218	1.31341	162.310
MBC9A08V	161	2.1244	0.1278	53.6151	3.9939	1.0768	-0.1913	-0.0009	0.0001	2.01218	1.31341	162.310
DA33	162	2.6529	-0.5188	43.3963	3.5665	0.8183	-0.1913	-0.0008	0.0001	2.10858	1.31788	163.661
MBA9A07	163	10.0447	-1.9463	24.5872	2.6750	0.3917	-0.0934	-0.0006	0.0001	2.20711	1.33252	166.663
DA23	164	21.9451	-3.0759	13.7724	1.8890	1.1703	-0.0934	-0.0004	0.0001	2.23262	1.35307	169.032
MBA9A08	165	44.5831	-4.4739	5.3592	0.9028	0.0374	0.0048	-0.0002	0.0001	2.24788	1.40989	172.033
DA24	166	59.2339	-5.1887	3.4002	0.3893	0.0447	0.0048	-0.0001	0.0001	2.25258	1.46768	173.550
IPM9A09	167	59.2339	-5.1887	3.4002	0.3893	0.0447	0.0048	-0.0001	0.0001	2.25258	1.46768	173.550
DA08	168	61.5890	-5.2946	3.2424	0.3132	0.0458	0.0048	-0.0001	0.0001	2.25317	1.47846	173.774
MQA9A09	169	61.5925	5.2831	3.2483	-0.3331	0.0460	-0.0031	-0.0001	0.0000	2.25394	1.49332	174.074
DA12	170	59.5692	5.1924	3.3897	-0.3992	0.0454	-0.0031	-0.0001	0.0000	2.25444	1.50259	174.267
MBC9A09H	171	59.5692	5.1924	3.3897	-0.3992	0.0454	-0.0031	-0.0001	0.0000	2.25444	1.50259	174.267
DA34	172	52.5147	4.8631	4.1181	-0.6391	0.0432	-0.0031	-0.0001	0.0000	2.25644	1.53265	174.969
ITV9A09	173	52.5147	4.8631	4.1181	-0.6391	0.0432	-0.0031	-0.0001	0.0000	2.25644	1.53265	174.969
DA22	174	44.6208	4.4659	5.4446	-0.9285	0.0406	-0.0031	-0.0000	0.0000	2.25922	1.56125	175.815
MBA9A09	175	22.0127	3.0739	14.0413	-1.9242	0.1784	0.0951	0.0001	0.0000	2.27446	1.61703	178.816
DA23	176	10.1104	1.9491	25.0408	-2.7178	0.4037	0.0951	0.0002	0.0000	2.29984	1.63720	181.186
MBA9A10	177	2.6836	0.5277	44.1310	-3.6171	0.8353	0.1929	0.0003	0.0000	2.39735	1.65159	184.187
DA24	178	2.1785	-0.1946	55.8334	-4.1010	1.1278	0.1929	0.0004	0.0000	2.50523	1.65645	185.703
IPM9A10	179	2.1785	-0.1946	55.8334	-4.1010	1.1278	0.1929	0.0004	0.0000	2.50523	1.65645	185.703
DA08	180	2.2900	-0.3017	57.6921	-4.1727	1.1711	0.1929	0.0004	0.0000	2.52126	1.65708	185.928
MQA9A10	181	2.6458	-0.9051	57.1076	6.0861	1.2610	0.4085	0.0004	0.0000	2.54089	1.65791	186.228
DA25	182	3.4545	-1.1727	52.4706	5.8268	1.4200	0.4085	0.0004	0.0000	2.56143	1.65904	186.617
MBC9A10V	183	3.4545	-1.1727	52.4706	5.8268	1.4200	0.4085	0.0004	0.0000	2.56143	1.65904	186.617
DA26	184	15.0613	-3.0588	25.5172	3.9997	2.5406	0.4085	0.0003	0.0000	2.62352	1.67098	189.360
DA08	185	16.4703	-3.2132	23.7538	3.8500	2.6324	0.4085	0.0003	0.0000	2.62579	1.67243	189.585
MQA9A11	186	16.7770	2.2243	23.7504	-3.8382	2.6253	-0.4549	0.0003	0.0001	2.62861	1.67448	189.885
DA12	187	15.9310	2.1559	25.2578	-3.9662	2.5375	-0.4549	0.0003	0.0001	2.63049	1.67573	190.078
MBC9A11H	188	15.9310	2.1559	25.2578	-3.9662	2.5375	-0.4549	0.0003	0.0001	2.63049	1.67573	190.078
DA35	189	5.8384	1.0343	56.9828	-6.0618	1.0983	-0.4549	0.0005	0.0001	2.68369	1.68902	193.242
IPM9A12	190	5.8384	1.0343	56.9828	-6.0618	1.0983	-0.4549	0.0005	0.0001	2.68369	1.68902	193.242
MQA9A12	191	5.5455	-0.0406	57.5594	4.1741	0.9901	-0.2698	0.0005	0.0000	2.69216	1.68985	193.542
DA25	192	5.6045	-0.1110	54.3585	4.0495	0.8850	-0.2698	0.0005	0.0000	2.70328	1.69095	193.931
MBC9A12V	193	5.6045	-0.1110	54.3585	4.0495	0.8850	-0.2698	0.0005	0.0000	2.70328	1.69095	193.931
DA29	194	6.2344	-0.3551	43.9964	3.6169	0.5204	-0.2698	0.0005	0.0000	2.74000	1.69535	195.283
MBA9A11	195	9.9669	-0.8897	24.9170	2.7144	-0.1410	-0.1716	0.0004	0.0000	2.80203	1.70980	198.284
DA23	196	15.1926	-1.3156	13.9387	1.9186	-0.5477	-0.1716	0.0003	0.0000	2.83287	1.73010	200.653
MBA9A12	197	24.6467	-1.8373	5.3845	0.9200	-0.9141	-0.0729	0.0003	0.0000	2.85761	1.78642	203.654
DA24	198	30.6265	-2.1065	3.3829	0.4001	-1.0245	-0.0729	0.0002	0.0000	2.86640	1.84422	205.171
IPM9A13	199	30.6265	-2.1065	3.3829	0.4001	-1.0245	-0.0729	0.0002	0.0000	2.86640	1.84422	205.171
DA08	200	31.5820	-2.1464	3.2205	0.3230	-1.0409	-0.0729	0.0002	0.0000	2.86754	1.85506	205.395
MQA9A13	201	31.5635	2.2071	3.1875	-0.2115	-1.0412	0.0710	0.0002	0.0000	2.86905	1.87009	205.695
DA25	202	29.8735	2.1347	3.4017	-0.3390	-1.0135	0.0710	0.0002	0.0000	2.87106	1.88895	206.085
MBC9A13H	203	29.8735	2.1347	3.4017	-0.3390	-1.0135	0.0710	0.0002	0.0000	2.87106	1.88895	206.085
DA33	204	24.4427	1.8833	4.9170	-0.7820	-0.9175	0.0710	0.0002	0.0000	2.87903	1.94256	207.436
MBA9A13	205	14.7901	1.3359	12.5128	-1.7386	-0.5567	0.1698	0.0002	0.0000	2.90421	2.00507	210.437
DA23	206	9.5163	0.8898	22.5570	-2.5003	-0.1544	0.1698	0.0002	0.0000	2.93621	2.02759	212.807
MBA9A14	207	5.8609	0.3293	40.2437	-3.3688	0.5015	0.2679	0.0002	0.0000	3.00189	2.04348	215.808
DA36	208	5.2874	0.0001	52.9031	-3.9030	0.9680	0.2679	0.0002	0.0000	3.05251	2.04948	217.549
IPM9A14	209	5.2874	0.0001	52.9031	-3.9030	0.9680	0.2679	0.0002	0.0000	3.05251	2.04948	217.549
MQA9A14	210	5.5923	-1.0343	52.4128	5.5081	1.0751	0.4491	0.0002	0.0000	3.06138	2.05038	217.849
DA25	211	6.4535	-1.1784	48.2154	5.2754	1.2499	0.4491	0.0002	0.0000	3.07170	2.05161	218.238
MBC9A14V	212	6.4535	-1.1784	48.2154	5.2754	1.2499	0.4491	0.0002	0.0000	3.07170	2.05161	218.238
DA31	213	15.7025	-2.1936	23.7742	3.6353	2.4817	0.4491	0.0001	0.0000	3.11562	2.06452	220.931
DA08	214	16.7067	-2.2767	22.1710	3.5010	2.5825	0.4491	0.0001	0.0000	3.11783	2.06608	221.206
MQA9A15	215	16.4374	3.1450	22.2249	-3.6861	2.5899	-0.4004	0.0001	0.0000	3.12066	2.06826	221.506
DA12	216	15.2473	3.0170	23.6733	-3.8129	2.5126	-0.4004	0.0001	0.0000	3.12260	2.06960	221.699
MBC9A15H	217	15.2473	3.0170	23.6733	-3.8129	2.5126	-0.4004	0.0001	0.0000	3.12260	2.06960	221.699
DA32	218	3.2364	1.0697	51.7550	-5.7419	1.3358	-0.4004	0.0000	0.0000	3.19130	2.08298	224.638
IPM9A16	219	3.2364	1.0697	51.7550	-5.7419	1.3358	-0.4004	0.0000	0.0000	3.19130	2.08298	224.638
DA08	220	2.7892	0.9209	54.3679	-5.8894	1.2459	-0.4004	0.0000	0.0000	3.20321	2.08366	224.863
MQA9A16	221	2.4292	0.3005	54.9815	3.8808	1.1581	-0.1872	0.0000	0.0000	3.22176	2.08452	225.163
DA25	222	2.2633	0.1258	52.0046	3.7671	1.0853	-0.1872	0.0000	0.0000	3.24831	2.08568	225.552
MBC9A16V	223	2.2633	0.1258	52.0046	3.7671	1.0853	-0.1872	0.0000	0.0000	3.24831	2.08568	225.552
DA33	224	2.7433	-0.4809	42.3548	3.3723	0.8322	-0.1872	0.0000	0.0000	3.33956	2.09027	226.904
MBA9A15	225	9.6422	-1.8199	24.4989	2.5530	0.4176	-0.0894	-0.0001	0.0000	3.43850	2.10512	229.905
DA23	226	20.7779	-2.8796	14.1228	1.8259	0.2057	-0.0894	-0.0001	0.0000	3.46527	2.12545	232.274
MBA9A16	227	41.9795	-4.1911	5.8608	0.9157	0.0849	0.0088	-0.0002	0.0000	3.48144	2.17897	235.276
DA24	228	55.7056	-4.8617	3.8051	0.4401	0.0982	0.0088	-0.0002	0.0000	3.48643	2.23100	236.792
IPM9A17	229	55.7056	-4.8617	3.8051	0.4401	0.0982	0.0088	-0.0002	0.0000	3.48643	2.23100	236.792
DA08	230	57.9123	-4.9610	3.6232	0.3696	0.1001	0.0088	-0.0002	0.0000	3.48706	2.24063	237.016
MQA9A17	231	57.9054										

IPM9A20	252	5.6969	1.0678	51.2428	-5.4156	1.0776	-0.4504	-0.0006	-0.0001	3.91430	2.44969	256.484
MQA9A20	253	5.3775	0.0160	51.7405	3.7865	0.9701	-0.2689	-0.0006	0.0001	3.92301	2.45060	256.784
DA25	254	5.3932	-0.0564	48.8376	3.6711	0.8655	-0.2689	-0.0006	0.0001	3.93452	2.45184	257.173
MBC9A20V	255	5.3932	-0.0564	48.8376	3.6711	0.8655	-0.2689	-0.0006	0.0001	3.93452	2.45184	257.173
DA29	256	5.8854	-0.3078	39.4551	3.2705	0.5021	-0.2689	-0.0005	0.0001	3.97308	2.45674	258.525
MBA9A19	257	9.3840	-0.8590	22.2687	2.4326	-0.1567	-0.1707	-0.0004	0.0001	4.03910	2.47289	261.526
DA23	258	14.4946	-1.2978	12.4844	1.6965	-0.5612	-0.1707	-0.0002	0.0001	4.07167	2.49558	263.895
MBA9A20	259	23.8922	-1.8363	5.0425	0.7730	-0.9249	-0.0719	0.0000	0.0001	4.09740	2.55734	266.897
DA24	260	29.8814	-2.1138	3.4268	0.2926	-1.0340	-0.0719	0.0000	0.0001	4.10643	2.61677	268.413
IPM9A21	261	29.8814	-2.1138	3.4268	0.2926	-1.0340	-0.0719	0.0000	0.0001	4.10643	2.61677	268.413
DA08	262	30.8404	-2.1549	3.3114	0.2215	-1.0501	-0.0719	0.0001	0.0001	4.10761	2.62739	268.638
MQA9A21	263	30.8576	2.0984	3.3424	-0.3264	-1.0499	0.0732	0.0001	0.0001	4.10915	2.64186	268.938
DA25	264	29.2506	2.0302	3.6466	-0.4552	-1.0215	0.0732	0.0001	0.0001	4.11121	2.65964	269.327
MBC9A21H	265	29.2506	2.0302	3.6466	-0.4552	-1.0215	0.0732	0.0001	0.0001	4.11121	2.65964	269.327
DA33	266	24.0822	1.7936	5.4820	-0.9027	-0.9226	0.0732	0.0002	0.0001	4.11932	2.70852	270.678
MBA9A21	267	14.8694	1.2789	13.8249	-1.8659	-0.5553	0.1719	0.0004	0.0001	4.14462	2.76456	273.680
DA23	268	9.8036	0.8589	24.4874	-2.6339	-0.1478	0.1719	0.0006	0.0001	4.17606	2.78511	276.049
MBA9A22	269	6.2332	0.3318	42.9833	-3.5037	0.5145	0.2701	0.0008	0.0001	4.23864	2.79986	279.050
DA36	270	5.6177	0.0218	56.1184	-4.0414	0.9847	0.2701	0.0009	0.0001	4.28617	2.80550	280.791
IPM9A22	271	5.6177	0.0218	56.1184	-4.0414	0.9847	0.2701	0.0009	0.0001	4.28617	2.80550	280.791
MQA9A22	272	5.9261	-1.0678	55.5396	5.9362	1.0929	0.4543	0.0009	-0.0001	4.29452	2.80635	281.091
DA25	273	6.8120	-1.2084	51.0173	5.6822	1.2697	0.4543	0.0008	-0.0001	4.30428	2.80751	281.480
MBC9A22V	274	6.8120	-1.2084	51.0173	5.6822	1.2697	0.4543	0.0008	-0.0001	4.30428	2.80751	281.480
DA31	275	16.1581	-2.1990	24.7547	3.8925	2.5158	0.4543	0.0006	-0.0001	4.34638	2.81981	284.223
DA08	276	17.1643	-2.2801	23.0387	3.7459	2.6179	0.4543	0.0006	-0.0001	4.34852	2.82131	284.448
MQA9A23	277	16.8522	3.2863	23.0293	-3.7136	2.6250	-0.4071	0.0006	0.0001	4.35129	2.82341	284.748
DA12	278	15.6088	3.1511	24.4878	-3.8376	2.5464	-0.4071	0.0006	0.0001	4.35318	2.82471	284.941
MBC9A23H	279	15.6088	3.1511	24.4878	-3.8376	2.5464	-0.4071	0.0006	0.0001	4.35318	2.82471	284.941
DA32	280	3.1349	1.0932	52.5930	-5.7252	1.3500	-0.4071	0.0009	0.0001	4.42219	2.83776	287.880
IPM9A24	281	3.1349	1.0932	52.5930	-5.7252	1.3500	-0.4071	0.0009	0.0001	4.42219	2.83776	287.880
DA08	282	2.6790	0.9359	55.1978	-5.8695	1.2585	-0.4071	0.0009	0.0001	4.43454	2.83842	288.105
MQA9A24	283	2.3072	0.3257	55.7550	4.0453	1.1691	-0.1918	0.0009	-0.0001	4.45397	2.83927	288.405
DA25	284	2.1262	0.1391	52.6530	3.9240	1.0944	-0.1918	0.0009	-0.0001	4.48208	2.84042	288.794
MBC9A24V	285	2.1262	0.1391	52.6530	3.9240	1.0944	-0.1918	0.0009	-0.0001	4.48208	2.84042	288.794
DA33	286	2.6260	-0.5089	42.6143	3.5031	0.8351	-0.1918	0.0008	-0.0001	4.57900	2.84496	290.146
MBA9A23	287	9.9672	-1.9394	24.1479	2.6247	0.4068	-0.0940	0.0006	-0.0001	4.67855	2.85988	293.147
DA23	288	21.8405	-3.0714	13.5434	1.8506	0.1840	-0.0940	0.0004	-0.0001	4.70422	2.88079	295.516
MBA9A24	289	44.4609	-4.4726	5.3168	0.8793	0.0494	0.0042	0.0002	-0.0001	4.71954	2.93834	298.518
DA24	290	59.1099	-5.1889	3.4170	0.3736	0.0558	0.0042	0.0001	-0.0001	4.72425	2.99623	300.034
IPM9A25	291	59.1099	-5.1889	3.4170	0.3736	0.0558	0.0042	0.0001	-0.0001	4.72425	2.99623	300.034
DA08	292	61.4651	-5.2950	3.2660	0.2987	0.0567	0.0042	0.0001	-0.0001	4.72484	3.00694	300.259
MQA9A25	293	61.4752	5.2619	3.2816	-0.3517	0.0565	-0.0055	0.0001	-0.0001	4.72561	3.02167	300.559
DA12	294	59.4599	5.1718	3.4302	-0.4178	0.0554	-0.0055	0.0001	-0.0001	4.72612	3.03084	300.752
MBC9A25H	295	59.4599	5.1718	3.4302	-0.4178	0.0554	-0.0055	0.0001	-0.0001	4.72612	3.03084	300.752
DA34	296	52.4331	4.8444	4.1850	-0.6580	0.0515	-0.0055	0.0000	-0.0001	4.72812	3.06048	301.453
ITV9A25	297	52.4331	4.8444	4.1850	-0.6580	0.0515	-0.0055	0.0000	-0.0001	4.72812	3.06048	301.453
DA22	298	44.5688	4.4495	5.5438	-0.9478	0.0469	-0.0055	0.0000	-0.0001	4.73091	3.08858	302.299
MBA9A25	299	22.0344	3.0657	14.2586	-1.9441	0.1774	0.0926	-0.0002	-0.0001	4.74614	3.14340	305.301
DA23	300	10.1554	1.9475	25.3542	-2.7384	0.3969	0.0926	-0.0003	-0.0001	4.77146	3.16329	307.670
MBA9A26	301	2.7139	0.5343	44.5683	-3.6375	0.8212	0.1905	-0.0004	-0.0001	4.86810	3.17752	310.671
DA24	302	2.1826	-0.1839	56.3331	-4.1217	1.1100	0.1905	-0.0005	-0.0001	4.97514	3.18234	312.188
IPM9A26	303	2.1826	-0.1839	56.3331	-4.1217	1.1100	0.1905	-0.0005	-0.0001	4.97514	3.18234	312.188
DA08	304	2.2891	-0.2903	58.2011	-4.1935	1.1528	0.1905	-0.0005	-0.0001	4.99117	3.18296	312.412
MQA9A26	305	2.6375	-0.8915	57.6020	6.1549	1.2414	0.4028	-0.0005	0.0000	5.01082	3.18378	312.712
DA25	306	3.4346	-1.1564	52.9128	5.8921	1.3981	0.4028	-0.0005	0.0000	5.03146	3.18490	313.102
MBC9A26V	307	3.4346	-1.1564	52.9128	5.8921	1.3981	0.4028	-0.0005	0.0000	5.03146	3.18490	313.102
DA26	308	14.8979	-3.0229	25.6680	4.0406	2.5029	0.4028	-0.0004	0.0000	5.09410	3.19676	315.844
DA08	309	16.2904	-3.1757	23.8867	3.8890	2.5933	0.4028	-0.0004	0.0000	5.09639	3.19820	316.069
MQA9A27	310	16.5924	2.2019	23.8726	-3.8405	2.5865	-0.4479	-0.0004	-0.0001	5.09925	3.20024	316.369
DA12	311	15.7550	2.1338	25.3808	-3.9679	2.5000	-0.4479	-0.0004	-0.0001	5.10115	3.20149	316.562
MBC9A27H	312	15.7550	2.1338	25.3808	-3.9679	2.5000	-0.4479	-0.0004	-0.0001	5.10115	3.20149	316.562
DA35	313	5.7815	1.0187	57.0900	-6.0550	1.0829	-0.4479	-0.0006	-0.0001	5.15492	3.21473	319.726
IPM9A28	314	5.7815	1.0187	57.0900	-6.0550	1.0829	-0.4479	-0.0006	-0.0001	5.15492	3.21473	319.726
MQA9A28	315	5.4950	-0.0468	57.6568	4.1993	0.9764	-0.2653	-0.0007	0.0000	5.16347	3.21555	320.026
DA25	316	5.5591	-0.1178	54.4368	4.0735	0.8731	-0.2653	-0.0006	0.0000	5.17469	3.21666	320.415
MBC9A28V	317	5.5591	-0.1178	54.4368	4.0735	0.8731	-0.2653	-0.0006	0.0000	5.17469	3.21666	320.415
DA29	318	6.2107	-0.3643	44.0155	3.6366	0.5145	-0.2653	-0.0006	0.0000	5.21163	3.22105	321.767
MBA9A27	319	10.0141	-0.9041	24.8458	2.7246	-0.1337	-0.1672	-0.0005	0.0000	5.27364	3.23552	324.768
DA23	320	15.3180	-1.3342	13.8371	1.9213	-0.5299	-0.1672	-0.0004	0.0000	5.30428	3.25592	327.138
MBA9A28	321	24.8986	-1.8609	5.2967	0.9128	-0.8831	-0.0684	-0.0003	0.0000	5.32879	3.31295	330.139
DA24	322	30.9540	-2.1327	3.3244	0.3880	-0.9868	-0.0684	-0.0002	0.0000	5.33748	3.37178	331.655
IPM9A29	323	30.9540	-2.1327	3.3244	0.3880	-0.9868	-0.0684	-0.0002	0.0000	5.33748	3.37178	331.655
DA08	324	31.9212	-2.1730	3.1675	0.3103	-1.0022	-0.0684	-0.0002	0.0000	5.33862	3.38281	331.880
MQA9A29	325	31.9046	2.2276	3.1404	-0.2188	-1.0020	0.0700	-0.0002	0.0000	5.34011	3.39808	332.180
DA12	326	31.0511	2.1915	3.2374	-0.2832	-0.9885	0.0700	-0.0002	0.0000	5.34108	3.40772	332.373
MBC9A29H	327	31.0511	2.1915	3.2374	-0.2832	-0.9885	0.0700	-0.0002	0.0000	5.34108	3.40772	332.373
DA30	328	24.7150	1.9023	4.9134	-0.7996	-0.8801	0.0700	-0.0002	0.0000	5.34998	3.47115	333.921
MBA9A29	329	14.9557	1.3524	12.6678	-1.7736	-0.5222	0.1688	-0.0001	0.0000	5.37488	3.53328	336.922
DA23	330	9.6085	0.9042	22.9104	-2.5490	-0.1222	0.1688	-0.0001	0.0000	5.40654	3.55549	339.291
MBA9A30	331	5.8745	0.3411	40.9380	-3.4332	0.5307	0.2669	-0.0001	0.0000	5.47181	3.57112	342.293
DA36	332	5.2627	0.0103	53.8383	-3.9770	0.9954	0.2669	0.0000	0.0000	5.52250	3.57702	344.033
IPM9A30	333	5.2627	0.0103	53.8383	-3.9770	0.9954	0.2669	0.0000	0.0000	5.52250	3.57702	344.033
MQA9A30	334	5.5600	-1.0187	53.3422	5.6010	1.1029	0.4529	0.0000	0.0000	5.53141	3.57791	344.333
DA25	335	6.4086	-1.1									

DA12	356	57.6497	3.1479	3.6309	-0.2524	-0.0002	0.0000	0.0002	0.0000	5.95861	3.78813	363.994
MBC9R01H	357	57.6497	3.1479	3.6309	-0.2524	-0.0002	0.0000	0.0002	0.0000	5.95861	3.78813	363.994
DA34	358	53.3260	3.0152	4.1291	-0.4579	-0.0002	0.0000	0.0002	0.0000	5.96063	3.81713	364.695
ITV9R01	359	53.3260	3.0152	4.1291	-0.4579	-0.0002	0.0000	0.0002	0.0000	5.96063	3.81713	364.695
DA37	360	29.6738	2.1483	14.4709	-1.7998	-0.0002	0.0000	0.0004	0.0000	5.97899	3.91807	369.276
IPM9R02	361	29.6738	2.1483	14.4709	-1.7998	-0.0002	0.0000	0.0004	0.0000	5.97899	3.91807	369.276
DA08	362	28.7181	2.1058	15.2944	-1.8656	-0.0002	0.0000	0.0004	0.0000	5.98022	3.92048	369.501
MQA9R02	363	26.4247	5.4418	17.0582	-4.0882	-0.0002	0.0000	0.0004	0.0001	5.98194	3.92345	369.801
DA12	364	24.3657	5.2181	18.6762	-4.2888	-0.0002	0.0000	0.0004	0.0001	5.98315	3.92517	369.994
MBC9R02H	365	24.3657	5.2181	18.6762	-4.2888	-0.0002	0.0000	0.0004	0.0001	5.98315	3.92517	369.994
DA13	366	22.3638	4.9909	20.3981	-4.4924	-0.0002	0.0000	0.0004	0.0001	5.98449	3.92677	370.190
MBC9R02V	367	22.3638	4.9909	20.3981	-4.4924	-0.0002	0.0000	0.0004	0.0001	5.98449	3.92677	370.190
DA17	368	1.5646	-0.9015	92.9583	-9.7739	0.0000	0.0000	0.0009	0.0001	6.31978	3.94540	375.276
IPM9R03	369	1.5646	-0.9015	92.9583	-9.7739	0.0000	0.0000	0.0009	0.0001	6.31978	3.94540	375.276
DA08	370	2.0282	-1.1618	97.4021	-10.0072	0.0000	0.0000	0.0009	0.0001	6.33990	3.94578	375.501
MQA9R03	371	2.9456	-1.9425	98.9715	4.8552	0.0000	0.0000	0.0009	-0.0001	6.35964	3.94626	375.801
DA12	372	3.7564	-2.2554	97.1052	4.8072	0.0000	0.0000	0.0009	-0.0001	6.36888	3.94658	375.994
MBC9R03H	373	3.7564	-2.2554	97.1052	4.8072	0.0000	0.0000	0.0009	-0.0001	6.36888	3.94658	375.994
DA13	374	4.7033	-2.5732	95.2295	4.7585	0.0000	0.0000	0.0009	-0.0001	6.37631	3.94690	376.190
MBC9R03V	375	4.7033	-2.5732	95.2295	4.7585	0.0000	0.0000	0.0009	-0.0001	6.37631	3.94690	376.190
DA17	376	72.7965	-10.8149	53.2474	3.4957	0.0000	0.0000	0.0006	-0.0001	6.42063	3.95828	381.276
IPM9R04	377	72.7965	-10.8149	53.2474	3.4957	0.0000	0.0000	0.0006	-0.0001	6.42063	3.95828	381.276
DA08	378	77.7375	-11.1789	51.6893	3.4400	0.0000	0.0000	0.0006	-0.0001	6.42110	3.95896	381.501
MQA9R04	379	79.5014	5.4234	52.8941	-7.5401	0.0003	0.0000	0.0006	0.0001	6.42170	3.95988	381.801
DA12	380	77.4206	5.3495	55.8476	-7.7514	0.0002	0.0000	0.0006	0.0001	6.42210	3.96045	381.994
MBC9R04H	381	77.4206	5.3495	55.8476	-7.7514	0.0002	0.0000	0.0006	0.0001	6.42210	3.96045	381.994
DA13	382	75.3373	5.2745	58.9296	-7.9659	0.0002	0.0000	0.0006	0.0001	6.42250	3.96099	382.190
MBC9R04V	383	75.3373	5.2745	58.9296	-7.9659	0.0002	0.0000	0.0006	0.0001	6.42250	3.96099	382.190
DA14	384	70.1029	5.0812	67.2619	-8.5187	0.0002	0.0000	0.0007	0.0001	6.42361	3.96227	382.695
ITV9R04	385	70.1029	5.0812	67.2619	-8.5187	0.0002	0.0000	0.0007	0.0001	6.42361	3.96227	382.695
DA38	386	47.9990	4.1668	114.2324	-11.1330	0.0002	0.0000	0.0009	0.0001	6.43017	3.96661	385.086
IPM9R05	387	47.9990	4.1668	114.2324	-11.1330	0.0002	0.0000	0.0009	0.0001	6.43017	3.96661	385.086
DA08	388	46.1461	4.0809	119.2896	-11.3787	0.0002	0.0000	0.0009	0.0001	6.43093	3.96692	385.310
MQA9R05	389	45.1196	-0.6239	122.4336	1.0068	0.0002	0.0000	0.0009	0.0000	6.43198	3.96731	385.610
DA12	390	45.3617	-0.6298	122.0453	1.0036	0.0002	0.0000	0.0009	0.0000	6.43266	3.96756	385.803
MBC9R05H	391	45.3617	-0.6298	122.0453	1.0036	0.0002	0.0000	0.0009	0.0000	6.43266	3.96756	385.803
DA13	392	45.6099	-0.6359	121.6523	1.0004	0.0002	0.0000	0.0009	0.0000	6.43335	3.96782	385.999
MBC9R05V	393	45.6099	-0.6359	121.6523	1.0004	0.0002	0.0000	0.0009	0.0000	6.43335	3.96782	385.999
D50075A	394	50.0459	-0.7355	115.3523	0.9472	0.0002	0.0000	0.0008	0.0000	6.44413	3.97216	389.234
MAR9R01	395	51.5040	-0.7220	113.4746	0.9308	0.0002	0.0000	0.0157	0.0297	6.44727	3.97355	390.234
DA11	396	53.3471	-0.7588	111.1830	0.9103	0.0002	0.0000	0.0526	0.0297	6.45105	3.97532	391.479
MQA9R06	397	53.8490	-0.9148	110.5475	1.2076	0.0002	0.0000	0.0615	0.0295	6.45194	3.97575	391.779
IPM9R06	398	53.8490	-0.9148	110.5475	1.2076	0.0002	0.0000	0.0615	0.0295	6.45194	3.97575	391.779
DA12	399	54.2037	-0.9214	110.0818	1.2033	0.0002	0.0000	0.0672	0.0295	6.45251	3.97603	391.972
MBC9R06H	400	54.2037	-0.9214	110.0818	1.2033	0.0002	0.0000	0.0672	0.0295	6.45251	3.97603	391.972
DA13	401	54.5663	-0.9281	109.6107	1.1990	0.0002	0.0000	0.0730	0.0295	6.45308	3.97631	392.168
MBC9R06V	402	54.5663	-0.9281	109.6107	1.1990	0.0002	0.0000	0.0730	0.0295	6.45308	3.97631	392.168
DA16A	403	60.0172	-1.0233	103.0861	1.1368	0.0003	0.0000	0.1555	0.0295	6.46085	3.98049	394.961
IPM9R07	404	60.0172	-1.0233	103.0861	1.1368	0.0003	0.0000	0.1555	0.0295	6.46085	3.98049	394.961
DA08	405	60.4787	-1.0310	102.5764	1.1318	0.0003	0.0000	0.1621	0.0295	6.46145	3.98084	395.186
MQA9R07	406	61.0698	-0.9392	101.9505	0.9549	0.0003	0.0000	0.1710	0.0298	6.46223	3.98131	395.486
DA12	407	61.4338	-0.9452	101.5823	0.9513	0.0003	0.0000	0.1768	0.0298	6.46273	3.98161	395.679
MBC9R07H	408	61.4338	-0.9452	101.5823	0.9513	0.0003	0.0000	0.1768	0.0298	6.46273	3.98161	395.679
DA13	409	61.8057	-0.9512	101.2100	0.9476	0.0003	0.0000	0.1826	0.0298	6.46324	3.98192	395.875
MBC9R07V	410	61.8057	-0.9512	101.2100	0.9476	0.0003	0.0000	0.1826	0.0298	6.46324	3.98192	395.875
DA39	411	67.2857	-1.0362	96.1267	0.8959	0.0003	0.0000	0.2648	0.0298	6.47005	3.98637	398.633
MYR9R03	412	71.5551	-1.0667	92.5349	0.8584	0.0003	0.0000	0.2946	0.0001	6.47464	3.98974	400.633
D50071	413	72.8458	-1.0846	91.5116	0.8471	0.0003	0.0000	0.2947	0.0001	6.47596	3.99078	401.233
MYR9R04	414	79.2942	-1.1169	86.4946	0.8883	0.0003	0.0000	0.1824	-0.0750	6.48225	3.99615	404.236
D50070	415	81.2918	-1.1419	84.9396	0.8701	0.0003	0.0000	0.1161	-0.0750	6.48400	3.99779	405.120
MAS9R05	416	83.1686	-1.1477	83.5630	0.9303	0.0003	0.0000	0.0592	-0.0390	6.48594	3.99968	406.122
D50069	417	85.4935	-1.1755	81.7234	0.9079	0.0003	0.0000	0.0201	-0.0390	6.48783	4.00161	407.123
MAQ9R06	418	87.6156	-1.0756	80.0524	0.8856	0.0003	0.0000	0.0006	-0.0001	6.48967	4.00358	408.123

MAXIMUM LATTICE FUNCTIONS :
 BETA X = 0.2564563511E+03 BETA Y = 0.2322574834E+03
 ETA X = 0.2632359973E+01 ETA Y = 0.2948977651E+00

1
 OPERATION LIST ,

MATRIX

1 -1,

AFTER :MAQ9R06 ELEMENT #: 418

 * TRANSFORMATION MATRIX *

FIRST ORDER MATRIX

- -0.4623798E+00 0.9837478E+01 -0.8472082E-15 -0.7706984E-15 0.0000000E+00 0.3181370E-03
 - -0.2614460E-01 -0.1606478E+01 0.5961541E-16 0.6287670E-15 0.0000000E+00 0.4593502E-05
 - 0.9262175E-16 -0.5379507E-14 0.6968291E+00 0.2494376E+01 0.0000000E+00 0.6142526E-03
 - -0.7420701E-16 -0.9452849E-15 -0.2153624E-01 0.1357981E+01 0.0000000E+00 -0.6567438E-04
 - 0.6193622E-05 0.5562687E-03 -0.3253513E-04 -0.9979598E-03 0.1000000E+01 0.7104292E-02
 - 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.1000000E+01

HORIZONTAL MOVEMENT ANALYSIS

COMPACTION FACTOR = 0.1740724E-04 GAMMA TR = 0.2396818E+03

MOVEMENT IS UNSTABLE

HALF-TRACE = -0.10344290665355E+01
 EIGENVALUE1 = -0.76977175283816E+00
 WITH EIGENVECTOR :
 X = -0.99951216875233E+00 XP = 0.31231786948699E-01
 EIGENVALUE2 = -0.12990863802328E+01
 WITH EIGENVECTOR :
 X = -0.99640250362183E+00 XP = 0.84746980926418E-01

VERTICAL MOVEMENT ANALYSIS

MOVEMENT IS UNSTABLE

HALF-TRACE = 0.10274049245518E+01
 EIGENVALUE1 = 0.12631184773935E+01
 WITH EIGENVECTOR :
 Y = -0.97518473393657E+00 YP = -0.22139271599821E+00
 EIGENVALUE2 = 0.79169137171006E+00
 WITH EIGENVECTOR :
 Y = -0.99927762587639E+00 YP = -0.38002979131067E-01

1
OPERATION LIST ,

HARDWARE

9.93249 5489.74 80.6 100 90.5537 0 0.0 0 1 0;

VALUES ARE FOR ENERGY : 0.993E+01 GEV

THE LENGTHS ARE MEASURED IN METERS ,THE ANGLES IN DEGREES

THE SKYZ COORDINATES,AZIMUTH,ELEVATION AND ROLL ANGLES ARE :

#	NAME	S	X	Y	Z	THETA	PHI	PSI
1	MAQ9S01	5490.7402500000	80.6000000000	100.0194608223	91.5536975361	0.0000000000	2.2297700000	0.0000000000
2	D50069	5491.7410100000	80.6000000000	100.0583973970	92.5536997965	0.0000000000	2.2297700000	0.0000000000
3	MAS9S02	5492.7426900000	80.6000000000	100.1153650162	93.5537044397	0.0000000000	4.2911600000	0.0000000000
4	D50070	5493.6270490000	80.6000000000	100.1815370662	94.4355843071	0.0000000000	4.2911600000	0.0000000000
5	MYR9S03	5496.6298590000	80.6000000000	100.2939320473	97.4355878465	0.0000000000	0.0000000000	0.0000000000
6	D50071	5497.2298530000	80.6000000000	100.2939320473	98.0355818465	0.0000000000	0.0000000000	0.0000000000
7	MYR9S04	5499.2301430000	80.6000000000	100.2642319251	100.0355778265	0.0000000000	-1.7015700000	0.0000000000
8	D50072	5502.9521530000	80.6000000000	100.1537119236	103.7559465944	0.0000000000	-1.7015700000	0.0000000000
9	D50073	5505.7093530000	80.6000000000	100.0718406368	106.5119307984	0.0000000000	-1.7015700000	0.0000000000
10	D50074A	5506.0393530000	80.6000000000	100.0620417377	106.8417852838	0.0000000000	-1.7015700000	0.0000000000
11	DA12	5506.2325030000	80.6000000000	100.0563064124	107.0348501137	0.0000000000	-1.7015700000	0.0000000000
12	MBC9S03H	5506.2325030100	80.6000000000	100.0563064121	107.0348501237	0.0000000000	-1.7015700000	0.0000000000
13	DA13	5506.4285930100	80.6000000000	100.0504837874	107.2308536572	0.0000000000	-1.7015700000	0.0000000000
14	MBC9S03V	5506.4285930200	80.6000000000	100.0504837871	107.2308536672	0.0000000000	-1.7015700000	0.0000000000
15	D50074B	5506.5385930200	80.6000000000	100.0472174874	107.3408051624	0.0000000000	-1.7015700000	0.0000000000
16	IPM9S03	5506.5385930200	80.6000000000	100.0472174874	107.3408051624	0.0000000000	-1.7015700000	0.0000000000
17	DA08	5506.7632430200	80.6000000000	100.0405468126	107.5653561022	0.0000000000	-1.7015700000	0.0000000000
18	MQD9S03S	5506.9132430200	80.6000000000	100.0360927676	107.7152899593	0.0000000000	-1.7015700000	0.0000000000
19	DA10	5507.0343330200	80.6000000000	100.0324971655	107.8363265642	0.0000000000	-1.7015700000	0.0000000000
20	MQA9S01	5507.3343330200	80.6000000000	100.0235890754	108.1361942783	0.0000000000	-1.7015700000	0.0000000000
21	D50074C	5507.6286930200	80.6000000000	100.0148484574	108.4304244793	0.0000000000	-1.7015700000	0.0000000000
22	MAR9S06	5508.6287330200	80.6000000000	99.9999999553	109.4303174847	0.0000000000	0.0000000000	0.0000000000
23	D50075	5511.8375230200	80.6000000000	99.9999999553	112.6391074847	0.0000000000	0.0000000000	0.0000000000
24	IPM9S04	5511.8375230200	80.6000000000	99.9999999553	112.6391074847	0.0000000000	0.0000000000	0.0000000000
25	DA08	5512.0621730200	80.6000000000	99.9999999553	112.8637574847	0.0000000000	0.0000000000	0.0000000000
26	MQA9S02	5512.3621730200	80.6000000000	99.9999999553	113.1637574847	0.0000000000	0.0000000000	0.0000000000
27	DA12	5512.5553230200	80.6000000000	99.9999999553	113.3569074847	0.0000000000	0.0000000000	0.0000000000
28	MBC9S04H	5512.5553230300	80.6000000000	99.9999999553	113.3569074947	0.0000000000	0.0000000000	0.0000000000
29	DA13	5512.7514130300	80.6000000000	99.9999999553	113.5529974947	0.0000000000	0.0000000000	0.0000000000
30	MBC9S04V	5512.7514130400	80.6000000000	99.9999999553	113.5529975047	0.0000000000	0.0000000000	0.0000000000
31	DA16	5515.8375230400	80.6000000000	99.9999999553	116.6391075047	0.0000000000	0.0000000000	0.0000000000
32	IPM9S05	5515.8375230400	80.6000000000	99.9999999553	116.6391075047	0.0000000000	0.0000000000	0.0000000000
33	DA08	5516.0621730400	80.6000000000	99.9999999553	116.8637575047	0.0000000000	0.0000000000	0.0000000000
34	MQA9S03	5516.3621730400	80.6000000000	99.9999999553	117.1637575047	0.0000000000	0.0000000000	0.0000000000
35	DA12	5516.5553230400	80.6000000000	99.9999999553	117.3569075047	0.0000000000	0.0000000000	0.0000000000
36	MBC9S05H	5516.5553230500	80.6000000000	99.9999999553	117.3569075147	0.0000000000	0.0000000000	0.0000000000
37	DA13	5516.7514130500	80.6000000000	99.9999999553	117.5529975147	0.0000000000	0.0000000000	0.0000000000
38	MBC9S05V	5516.7514130600	80.6000000000	99.9999999553	117.5529975247	0.0000000000	0.0000000000	0.0000000000
39	DA17	5521.8375230600	80.6000000000	99.9999999553	122.6391075247	0.0000000000	0.0000000000	0.0000000000
40	IPM9S06	5521.8375230600	80.6000000000	99.9999999553	122.6391075247	0.0000000000	0.0000000000	0.0000000000
41	DA08	5522.0621730600	80.6000000000	99.9999999553	122.8637575247	0.0000000000	0.0000000000	0.0000000000
42	MQA9S04	5522.3621730600	80.6000000000	99.9999999553	123.1637575247	0.0000000000	0.0000000000	0.0000000000
43	DA12	5522.5553230600	80.6000000000	99.9999999553	123.3569075247	0.0000000000	0.0000000000	0.0000000000
44	MBC9S06H	5522.5553230700	80.6000000000	99.9999999553	123.3569075347	0.0000000000	0.0000000000	0.0000000000
45	DA13	5522.7514130700	80.6000000000	99.9999999553	123.5529975347	0.0000000000	0.0000000000	0.0000000000
46	MBC9S06V	5522.7514130800	80.6000000000	99.9999999553	123.5529975447	0.0000000000	0.0000000000	0.0000000000
47	DA17	5527.8375230800	80.6000000000	99.9999999553	128.6391075447	0.0000000000	0.0000000000	0.0000000000
48	IPM9S07	5527.8375230800	80.6000000000	99.9999999553	128.6391075447	0.0000000000	0.0000000000	0.0000000000
49	DA08	5528.0621730800	80.6000000000	99.9999999553	128.8637575447	0.0000000000	0.0000000000	0.0000000000
50	MQA9S05	5528.3621730800	80.6000000000	99.9999999553	129.1637575447	0.0000000000	0.0000000000	0.0000000000
51	DA12	5528.5553230800	80.6000000000	99.9999999553	129.3569075447	0.0000000000	0.0000000000	0.0000000000
52	MBC9S07H	5528.5553230900	80.6000000000	99.9999999553	129.3569075547	0.0000000000	0.0000000000	0.0000000000
53	DA13	5528.7514130900	80.6000000000	99.9999999553	129.5529975547	0.0000000000	0.0000000000	0.0000000000
54	MBC9S07V	5528.7514131000	80.6000000000	99.9999999553	129.5529975647	0.0000000000	0.0000000000	0.0000000000
55	DA17	5533.8375231000	80.6000000000	99.9999999553	134.6391075647	0.0000000000	0.0000000000	0.0000000000
56	IPM9S08	5533.8375231000	80.6000000000	99.9999999553	134.6391075647	0.0000000000	0.0000000000	0.0000000000
57	DA08	5534.0621731000	80.6000000000	99.9999999553	134.8637575647	0.0000000000	0.0000000000	0.0000000000
58	MQA9S06	5534.3621731000	80.6000000000	99.9999999553	135.1637575647	0.0000000000	0.0000000000	0.0000000000
59	DA12	5534.5553231100	80.6000000000	99.9999999553	135.3569075647	0.0000000000	0.0000000000	0.0000000000
60	MBC9S08H	5534.5553231100	80.6000000000	99.9999999553	135.3569075747	0.0000000000	0.0000000000	0.0000000000
61	DA13	5534.7514131100	80.6000000000	99.9999999553	135.5529975747	0.0000000000	0.0000000000	0.0000000000
62	MBC9S08V	5534.7514131200	80.6000000000	99.9999999553	135.5529975847	0.0000000000	0.0000000000	0.0000000000
63	DA18	5550.3875131200	80.6000000000	99.9999999553	151.1890975847	0.0000000000	0.0000000000	0.0000000000
64	IPM9E01	5550.3875131200	80.6000000000	99.9999999553	151.1890975847	0.0000000000	0.0000000000	0.0000000000

65	DA08	5550.6121631200	80.6000000000	99.999999553	151.4137475847	0.0000000000	0.0000000000	0.0000000000
66	MQC9E01	5550.9121631200	80.6000000000	99.999999553	151.7137475847	0.0000000000	0.0000000000	0.0000000000
67	DA12	5551.1053131200	80.6000000000	99.999999553	151.9068975847	0.0000000000	0.0000000000	0.0000000000
68	MBM9E01H	5551.1053131300	80.6000000000	99.999999553	151.9068975947	0.0000000000	0.0000000000	0.0000000000
69	DA13	5551.3014031300	80.6000000000	99.999999553	152.1029875947	0.0000000000	0.0000000000	0.0000000000
70	MBM9E01V	5551.3014031400	80.6000000000	99.999999553	152.1029876047	0.0000000000	0.0000000000	0.0000000000
71	DA14	5551.8068631400	80.6000000000	99.999999553	152.6084476047	0.0000000000	0.0000000000	0.0000000000
72	IHA9E01	5551.8068631400	80.6000000000	99.999999553	152.6084476047	0.0000000000	0.0000000000	0.0000000000
73	DA19	5552.0371531400	80.6000000000	99.999999553	152.8387376047	0.0000000000	0.0000000000	0.0000000000
74	MBY9E01	5553.0374431400	80.6210000090	99.999999553	153.8387336267	2.4060900000	0.0000000000	0.0000000000
75	DA20	5558.0418631400	80.8310949129	99.999999553	158.8387415973	-2.4060900000	0.0000000000	0.0000000000
76	MBZ9E02	5560.0424531400	80.8310949129	99.999999553	160.8387436383	-2.4060900000	0.0000000000	0.0000000000
77	DA20	5565.0468731400	80.6210000090	99.999999553	165.8387516089	-2.4060900000	0.0000000000	0.0000000000
78	MBY9E03	5566.0471631400	80.6000000000	99.999999553	166.8387476308	0.0000000000	0.0000000000	0.0000000000
79	DA21	5566.9475191400	80.6000000000	99.999999553	167.7391036308	0.0000000000	0.0000000000	0.0000000000
80	IPM9E02	5566.9475191400	80.6000000000	99.999999553	167.7391036308	0.0000000000	0.0000000000	0.0000000000
81	DA08	5567.1721691400	80.6000000000	99.999999553	167.937536308	0.0000000000	0.0000000000	0.0000000000
82	MQC9E02	5567.4721691400	80.6000000000	99.999999553	168.2637536308	0.0000000000	0.0000000000	0.0000000000
83	DA12	5567.6653191400	80.6000000000	99.999999553	168.4569036308	0.0000000000	0.0000000000	0.0000000000
84	MBM9E02H	5567.6653191500	80.6000000000	99.999999553	168.4569036408	0.0000000000	0.0000000000	0.0000000000
85	DA13	5567.8614091500	80.6000000000	99.999999553	168.6529936408	0.0000000000	0.0000000000	0.0000000000
86	MBM9E02V	5567.8614091600	80.6000000000	99.999999553	168.6529936508	0.0000000000	0.0000000000	0.0000000000
87	DA18	5583.4975091600	80.6000000000	99.999999553	184.2890936508	0.0000000000	0.0000000000	0.0000000000
88	IPM9E03	5583.4975091600	80.6000000000	99.999999553	184.2890936508	0.0000000000	0.0000000000	0.0000000000
89	DA08	5583.7221591600	80.6000000000	99.999999553	184.5137436508	0.0000000000	0.0000000000	0.0000000000
90	MQC9E03	5584.0221591600	80.6000000000	99.999999553	184.8137436508	0.0000000000	0.0000000000	0.0000000000
91	DA12	5584.2153091600	80.6000000000	99.999999553	185.0068936508	0.0000000000	0.0000000000	0.0000000000
92	MBM9E03H	5584.2153091700	80.6000000000	99.999999553	185.0068936608	0.0000000000	0.0000000000	0.0000000000
93	DA13	5584.4113991700	80.6000000000	99.999999553	185.2029836608	0.0000000000	0.0000000000	0.0000000000
94	MBM9E03V	5584.4113991800	80.6000000000	99.999999553	185.2029836708	0.0000000000	0.0000000000	0.0000000000
95	DA18	5600.0474991800	80.6000000000	99.999999553	200.8390836708	0.0000000000	0.0000000000	0.0000000000
96	IPM9A01	5600.0474991800	80.6000000000	99.999999553	200.8390836708	0.0000000000	0.0000000000	0.0000000000
97	DA08	5600.2721491800	80.6000000000	99.999999553	201.0637336708	0.0000000000	0.0000000000	0.0000000000
98	MQA9A01	5600.5721491800	80.6000000000	99.999999553	201.3637336708	0.0000000000	0.0000000000	0.0000000000
99	DA12	5600.7652991800	80.6000000000	99.999999553	201.5568836708	0.0000000000	0.0000000000	0.0000000000
100	MBC9A01H	5600.7652991900	80.6000000000	99.999999553	201.5568836808	0.0000000000	0.0000000000	0.0000000000
101	DA13	5600.9613891900	80.6000000000	99.999999553	201.7529736808	0.0000000000	0.0000000000	0.0000000000
102	MBC9A01V	5600.9613892000	80.6000000000	99.999999553	201.7529736908	0.0000000000	0.0000000000	0.0000000000
103	DA14	5601.4668492000	80.6000000000	99.999999553	202.2584336908	0.0000000000	0.0000000000	0.0000000000
104	ITV9A01	5601.4668492000	80.6000000000	99.999999553	202.2584336908	0.0000000000	0.0000000000	0.0000000000
105	DA22	5602.3130192000	80.6000000000	99.999999553	203.1046036908	0.0000000000	0.0000000000	0.0000000000
106	MBA9A01	5605.3142292000	80.4527969992	99.999999553	206.1009949443	-5.6249900000	0.0000000000	0.0000000000
107	DA23	5607.6837792000	80.2205408959	99.999999553	208.4591349539	-5.6249900000	0.0000000000	0.0000000000
108	MBA9A02	5610.6849892000	79.7803495337	99.999999553	211.4266694241	-11.2499800000	0.0000000000	0.0000000000
109	DA24	5612.2012192000	79.4845482538	99.999999553	212.9137655931	-11.2499800000	0.0000000000	0.0000000000
110	IPM9A02	5612.2012192000	79.4845482538	99.999999553	212.9137655931	-11.2499800000	0.0000000000	0.0000000000
111	DA08	5612.4258692000	79.4407212899	99.999999553	213.1340990216	-11.2499800000	0.0000000000	0.0000000000
112	MQA9A02	5612.7258692000	79.3821942960	99.999999553	213.4283346262	-11.2499800000	0.0000000000	0.0000000000
113	DA25	5613.1151092000	79.3062574723	99.999999553	213.8100955152	-11.2499800000	0.0000000000	0.0000000000
114	MBC9A02V	5613.1151092100	79.3062574703	99.999999553	213.8100955250	-11.2499800000	0.0000000000	0.0000000000
115	DA26	5615.8580392100	78.7711393124	99.999999553	216.5003210810	-11.2499800000	0.0000000000	0.0000000000
116	IPM9A03	5615.8580392100	78.7711393124	99.999999553	216.5003210810	-11.2499800000	0.0000000000	0.0000000000
117	DA08	5616.0826892100	78.7273123485	99.999999553	216.7206545095	-11.2499800000	0.0000000000	0.0000000000
118	MQA9A03	5616.3826892100	78.6687853546	99.999999553	217.0148901141	-11.2499800000	0.0000000000	0.0000000000
119	DA12	5616.5758392100	78.6311037250	99.999999553	217.2043288041	-11.2499800000	0.0000000000	0.0000000000
120	MBC9A03H	5616.5758392200	78.6311037231	99.999999553	217.2043288140	-11.2499800000	0.0000000000	0.0000000000
121	DA27	5616.9939292200	78.5495385535	99.999999553	217.6143853603	-11.2499800000	0.0000000000	0.0000000000
122	IHA9A03	5616.9939292200	78.5495385535	99.999999553	217.6143853603	-11.2499800000	0.0000000000	0.0000000000
123	DA28	5619.5148492200	78.0577323220	99.999999553	220.0868667611	-11.2499800000	0.0000000000	0.0000000000
124	IPM9A04	5619.5148492200	78.0577323220	99.999999553	220.0868667611	-11.2499800000	0.0000000000	0.0000000000
125	DA08	5619.7394992200	78.0139053581	99.999999553	220.3072001896	-11.2499800000	0.0000000000	0.0000000000
126	MQA9A04	5620.0394992200	77.9553783642	99.999999553	220.614357941	-11.2499800000	0.0000000000	0.0000000000
127	DA25	5620.4287392200	77.8794415405	99.999999553	220.9831966832	-11.2499800000	0.0000000000	0.0000000000
128	MBC9A04V	5620.4287392200	77.8794415385	99.999999553	220.9831966930	-11.2499800000	0.0000000000	0.0000000000
129	DA29	5621.7803792200	77.6157501184	99.999999553	222.3088654015	-11.2499800000	0.0000000000	0.0000000000
130	MBA9A03	5624.7815892200	76.8868096633	99.999999553	225.2189642108	-16.8749700000	0.0000000000	0.0000000000
131	DA23	5627.1511392300	76.1989667935	99.999999553	227.4864825435	-16.8749700000	0.0000000000	0.0000000000
132	MBA9A04	5630.1523492300	75.1882973155	99.999999553	230.3111199491	-22.4999600000	0.0000000000	0.0000000000
133	DA24	5631.6685792300	74.6080621928	99.999999553	231.7119342178	-22.4999600000	0.0000000000	0.0000000000
134	IPM9A05	5631.6685792300	74.6080621928	99.999999553	231.7119342178	-22.4999600000	0.0000000000	0.0000000000
135	DA08	5631.8932292300	74.5220925046	99.999999553	231.9194838148	-22.4999600000	0.0000000000	0.0000000000
136	MQA9A05	5632.1932292300	74.4072876684	99.999999553	232.1966477547	-22.4999600000	0.0000000000	0.0000000000
137	DA12	5632.3863792300	74.3333724881	99.999999553	232.3750951380	-22.4999600000	0.0000000000	0.0000000000
138	MBC9A05H	5632.3863792400	74.3333724842	99.999999553	232.3750951472	-22.4999600000	0.0000000000	0.0000000000
139	DA30A	5633.0879292400	74.0649013747	99.999999553	233.0232430207	-22.4999600000	0.0000000000	0.0000000000
140	DA22	5633.9340992400	73.7410866805	99.999999553	233.8050023908	-22.4999600000	0.0000000000	0.0000000000
141	MBA9A05	5636.9353092400	72.4584214447	99.999999553	236.5169756871	-28.1249500000	0.0000000000	0.0000000000
142	DA23	5639.3048592400	71.3414251306	99.999999553	238.6067331938	-28.1249500000	0.0000000000	0.0000000000
143	MBA9A06	5642.3060692400	69.7991168604	99.999999553	241.1792468882	-33.7499400000	0.0000000000	0.0000000000
144	DA24	5643.8222992400	68.9567459262	99.999999553	242.4406247406	-33.7499400000	0.0000000000	0.0000000000
145	IPM9A06	5643.8222992400	68.9567459262	99.999999553	242.4406247406	-33.7499400000	0.0000000000	0.0000000000
146	DA08	5644.0469492400	68.8319372689	99.999999553	242.6274145197	-33.7499400000	0.0000000000	0.0000000000
147	MQA9A06	5644.3469492400	68.6652664602	99.999999553	242.8768555779	-33.7499400000	0.0000000000	0.0000000000
148	DA25	5644.7361892400	68.4					

169	MQA9A09	5663.8142892700	56.88675145408	99.9999999553	258.3126931867	-44.9999200000	0.0000000000	0.0000000000
170	DA12	5664.0074392700	56.7501739667	99.9999999553	258.4492710522	-44.9999200000	0.0000000000	0.0000000000
171	MBC9A09H	5664.0074392800	56.7501739596	99.9999999553	258.4492710593	-44.9999200000	0.0000000000	0.0000000000
172	DA34	5664.7089892800	56.2541038900	99.9999999553	258.9453425143	-44.9999200000	0.0000000000	0.0000000000
173	ITV9A09	5664.7089892800	56.2541038900	99.9999999553	258.9453425143	-44.9999200000	0.0000000000	0.0000000000
174	DA22	5665.5551592800	55.6557721803	99.9999999553	259.5436758948	-44.9999200000	0.0000000000	0.0000000000
175	MBA9A09	5668.5563692800	53.4329181789	99.9999999553	261.5583593327	-50.6249100000	0.0000000000	0.0000000000
176	DA23	5670.9259192800	51.6012336204	99.9999999553	263.0615888164	-50.6249100000	0.0000000000	0.0000000000
177	MBA9A10	5673.9271292800	49.1916100711	99.9999999553	264.8486936310	-56.2499000000	0.0000000000	0.0000000000
178	DA24	5675.4433592800	47.9309123711	99.9999999553	265.6910680857	-56.2499000000	0.0000000000	0.0000000000
179	IPM9A10	5675.4433592800	47.9309123711	99.9999999553	265.6910680857	-56.2499000000	0.0000000000	0.0000000000
180	DA08	5675.6680092800	47.7441229405	99.9999999553	265.8158727264	-56.2499000000	0.0000000000	0.0000000000
181	MQA9A10	5675.9680092800	47.4946823477	99.9999999553	265.9825487698	-56.2499000000	0.0000000000	0.0000000000
182	DA25	5676.3572492800	47.1710414932	99.9999999553	266.1987595222	-56.2499000000	0.0000000000	0.0000000000
183	MBC9A10V	5676.3572492900	47.1710414849	99.9999999553	266.1987994977	-56.2499000000	0.0000000000	0.0000000000
184	DA26	5679.1001792900	44.8903812009	99.9999999553	267.7226937375	-56.2499000000	0.0000000000	0.0000000000
185	DA08	5679.3248292900	44.7035917704	99.9999999553	267.8475029164	-56.2499000000	0.0000000000	0.0000000000
186	MQA9A11	5679.6248292900	44.4541511776	99.9999999553	268.0141744216	-56.2499000000	0.0000000000	0.0000000000
187	DA12	5679.8179792900	44.2935530093	99.9999999553	268.1214830924	-56.2499000000	0.0000000000	0.0000000000
188	MBC9A11H	5679.8179793000	44.2935530009	99.9999999553	268.1214830980	-56.2499000000	0.0000000000	0.0000000000
189	DA35	5682.9816393000	41.6630689149	99.9999999553	269.8791230124	-56.2499000000	0.0000000000	0.0000000000
190	IPM9A12	5682.9816393000	41.6630689149	99.9999999553	269.8791230124	-56.2499000000	0.0000000000	0.0000000000
191	MQA9A12	5683.2816393000	41.4136283221	99.9999999553	270.0457945177	-56.2499000000	0.0000000000	0.0000000000
192	DA25	5683.6708793000	41.0899874677	99.9999999553	270.2620452401	-56.2499000000	0.0000000000	0.0000000000
193	MBC9A12V	5683.6708793100	41.0899874594	99.9999999553	270.2620452456	-56.2499000000	0.0000000000	0.0000000000
194	DA29	5685.0225193100	39.9661411832	99.9999999553	271.0129781569	-56.2499000000	0.0000000000	0.0000000000
195	MBA9A11	5688.0237293100	37.3929539958	99.9999999553	272.5552936128	-61.8748900000	0.0000000000	0.0000000000
196	DA23	5690.3932793100	35.3031996083	99.9999999553	273.6722957626	-61.8748900000	0.0000000000	0.0000000000
197	MBA9A12	5693.3944893100	32.5912298939	99.9999999553	274.9549685717	-67.4998800000	0.0000000000	0.0000000000
198	DA24	5694.9107193100	31.1904172456	99.9999999553	275.5352076062	-67.4998800000	0.0000000000	0.0000000000
199	IPM9A13	5694.9107193100	31.1904172456	99.9999999553	275.5352076062	-67.4998800000	0.0000000000	0.0000000000
200	DA08	5695.1353693100	30.9828678886	99.9999999553	275.6211778740	-67.4998800000	0.0000000000	0.0000000000
201	MQA9A13	5695.4353693100	30.7057042693	99.9999999553	275.7359834842	-67.4998800000	0.0000000000	0.0000000000
202	DA25	5695.8246093100	30.3460937121	99.9999999553	275.8849399365	-67.4998800000	0.0000000000	0.0000000000
203	MBC9A13H	5695.8246093200	30.3460937028	99.9999999553	275.8849399404	-67.4998800000	0.0000000000	0.0000000000
204	DA33	5697.1762393200	29.0973514936	99.9999999553	276.4021889634	-67.4998800000	0.0000000000	0.0000000000
205	MBA9A13	5700.1774493200	26.2727169103	99.9999999553	277.4128663293	-73.1248700000	0.0000000000	0.0000000000
206	DA23	5702.5469993200	24.0052004984	99.9999999553	278.1007155311	-73.1248700000	0.0000000000	0.0000000000
207	MBA9A14	5705.5482093200	21.0951037247	99.9999999553	278.8296641128	-78.7498600000	0.0000000000	0.0000000000
208	DA36	5707.2890993200	19.3876652678	99.9999999553	279.1692990756	-78.7498600000	0.0000000000	0.0000000000
209	IPM9A14	5707.2890993200	19.3876652678	99.9999999553	279.1692990756	-78.7498600000	0.0000000000	0.0000000000
210	MQA9A14	5707.5890993200	19.0934298267	99.9999999553	279.2278268911	-78.7498600000	0.0000000000	0.0000000000
211	DA25	5707.9783393200	18.7116691497	99.9999999553	279.3037647809	-78.7498600000	0.0000000000	0.0000000000
212	MBC9A14V	5707.9783393300	18.7116691399	99.9999999553	279.3037647828	-78.7498600000	0.0000000000	0.0000000000
213	DA31	5710.7212593300	16.0214548861	99.9999999553	279.8388885023	-78.7498600000	0.0000000000	0.0000000000
214	DA08	5710.9459093300	15.8011215800	99.9999999553	279.8827160815	-78.7498600000	0.0000000000	0.0000000000
215	MQA9A15	5711.2459093300	15.5068861388	99.9999999553	279.9412438971	-78.7498600000	0.0000000000	0.0000000000
216	DA12	5711.4390593300	15.3174475540	99.9999999553	279.9789260557	-78.7498600000	0.0000000000	0.0000000000
217	MBC9A15H	5711.4390593400	15.3174475442	99.9999999553	279.9789260576	-78.7498600000	0.0000000000	0.0000000000
218	DA32	5714.3780693400	12.4349111983	99.9999999553	280.5523055083	-78.7498600000	0.0000000000	0.0000000000
219	IPM9A16	5714.3780693400	12.4349111983	99.9999999553	280.5523055083	-78.7498600000	0.0000000000	0.0000000000
220	DA08	5714.6027193400	12.2145778921	99.9999999553	280.5961330875	-78.7498600000	0.0000000000	0.0000000000
221	MQA9A16	5714.9027193400	11.9203424510	99.9999999553	280.6546609031	-78.7498600000	0.0000000000	0.0000000000
222	DA25	5715.2919593400	11.5385817740	99.9999999553	280.7305987929	-78.7498600000	0.0000000000	0.0000000000
223	MBC9A16V	5715.2919593500	11.5385817642	99.9999999553	280.7305987948	-78.7498600000	0.0000000000	0.0000000000
224	DA33	5716.6435893500	10.2129236000	99.9999999553	280.9942919659	-78.7498600000	0.0000000000	0.0000000000
225	MBA9A15	5719.6447993500	7.2453903590	99.9999999553	281.4344916151	-84.3748500000	0.0000000000	0.0000000000
226	DA23	5722.0143493500	4.8872509980	99.9999999553	281.6667543035	-84.3748500000	0.0000000000	0.0000000000
227	MBA9A16	5725.0155593500	1.8908601556	99.9999999553	281.8139656719	-89.9998400000	0.0000000000	0.0000000000
228	DA24	5726.5317893500	0.3746301556	99.9999999553	281.8139699060	-89.9998400000	0.0000000000	0.0000000000
229	IPM9A17	5726.5317893500	0.3746301556	99.9999999553	281.8139699060	-89.9998400000	0.0000000000	0.0000000000
230	DA08	5726.7564393500	0.1499801556	99.9999999553	281.8139705333	-89.9998400000	0.0000000000	0.0000000000
231	MQA9A17	5727.0564393500	-0.1500198444	99.9999999553	281.8139713711	-89.9998400000	0.0000000000	0.0000000000
232	DA12	5727.2495893500	-0.3431698444	99.9999999553	281.8139719105	-89.9998400000	0.0000000000	0.0000000000
233	MBC9A17H	5727.2495893600	-0.3431698544	99.9999999553	281.8139719105	-89.9998400000	0.0000000000	0.0000000000
234	DA34	5727.9511393600	-1.0447198544	99.9999999553	281.8139738696	-89.9998400000	0.0000000000	0.0000000000
235	ITV9A17	5727.9511393600	-1.0447198544	99.9999999553	281.8139738696	-89.9998400000	0.0000000000	0.0000000000
236	DA22	5728.7973093600	-1.8908898544	99.9999999553	281.8139762325	-89.9998400000	0.0000000000	0.0000000000
237	MBA9A17	5731.7985193600	-4.8872815189	99.9999999553	281.6667815992	-95.6248300000	0.0000000000	0.0000000000
238	DA23	5734.1680693600	-7.2454221771	99.9999999553	281.4345320810	-95.6248300000	0.0000000000	0.0000000000
239	MBA9A18	5737.1692793600	-10.2129578765	99.9999999553	280.9943490058	-101.2498200000	0.0000000000	0.0000000000
240	DA24	5738.6855093600	-11.7000548715	99.9999999553	280.6985518787	-101.2498200000	0.0000000000	0.0000000000
241	IPM9A18	5738.6855093600	-11.7000548715	99.9999999553	280.6985518787	-101.2498200000	0.0000000000	0.0000000000
242	DA08	5738.9101593600	-11.9203884224	99.9999999553	280.6547255300	-101.2498200000	0.0000000000	0.0000000000
243	MQA9A18	5739.2101593600	-12.2146241904	99.9999999553	280.5961993578	-101.2498200000	0.0000000000	0.0000000000
244	DA25	5739.5993993600	-12.5963852915	99.9999999553	280.5202636002	-101.2498200000	0.0000000000	0.0000000000
245	MBC9A18V	5739.5993993700	-12.5963853013	99.9999999553	280.5202635982	-101.2498200000	0.0000000000	0.0000000000
246	DA26	5742.3423293700	-15.2866123516	99.9999999553	279.9851529529	-101.2498200000	0.0000000000	0.0000000000
247	DA08	5742.5669793700	-15.5069459025	99.9999999553	279.9413266042	-101.2498200000	0.0000000000	0.0000000000
248	MQA9A19	5742.8669793700	-15.8011816705	99.9999999553	279.8828004320	-101.2498200000	0.0000000000	0.0000000000
249	DA12	5743.0601293700	-15.9906204658	99.9999999553	279.8451193314	-101.2498200000	0.0000000000	0.0000000000
250	MBC9A19H	5743.0601293800	-15.9906204756	99.9999999553	279.8451193295	-101.2498200000	0.0000000000	0.0000000000
251	DA35	5746.2237893800						

273	DA25	5771.2204894000	-41.9868254463	99.999999553	269.6630992874	-123.7497800000	0.0000000000	0.0000000000
274	MBC9A22V	5771.2204894100	-41.9868254546	99.999999553	269.6630992818	-123.7497800000	0.0000000000	0.0000000000
275	DA31	5773.9634094100	-44.2674859349	99.999999553	268.1392233354	-123.7497800000	0.0000000000	0.0000000000
276	DA08	5774.1880594100	-44.4542760625	99.999999553	268.0144151997	-123.7497800000	0.0000000000	0.0000000000
277	MQA9A23	5774.4880594100	-44.7037175861	99.999999553	267.8477450876	-123.7497800000	0.0000000000	0.0000000000
278	DA12	5774.6812094100	-44.8643163538	99.999999553	267.7404373138	-123.7497800000	0.0000000000	0.0000000000
279	MBC9A23H	5774.6812094200	-44.8643163621	99.999999553	267.7404373082	-123.7497800000	0.0000000000	0.0000000000
280	DA32	5777.6202194200	-47.3080201370	99.999999553	266.1076202208	-123.7497800000	0.0000000000	0.0000000000
281	IPM9A24	5777.6202194200	-47.3080201370	99.999999553	266.1076202208	-123.7497800000	0.0000000000	0.0000000000
282	DA08	5777.8448694200	-47.4948102646	99.999999553	265.9828120852	-123.7497800000	0.0000000000	0.0000000000
283	MQA9A24	5778.1448694200	-47.7442517882	99.999999553	265.8161419731	-123.7497800000	0.0000000000	0.0000000000
284	DA25	5778.5341094200	-48.0678938505	99.999999553	265.5998930583	-123.7497800000	0.0000000000	0.0000000000
285	MBC9A24V	5778.5341094300	-48.0678938588	99.999999553	265.5998930527	-123.7497800000	0.0000000000	0.0000000000
286	DA33	5779.8857394300	-49.1917360142	99.999999553	264.8489719739	-123.7497800000	0.0000000000	0.0000000000
287	MBA9A23	5782.8869494300	-51.6013695445	99.999999553	263.0618806173	-129.3747700000	0.0000000000	0.0000000000
288	DA23	5785.2564994300	-53.4330624986	99.999999553	261.5586613636	-129.3747700000	0.0000000000	0.0000000000
289	MBA9A24	5788.2577094300	-55.6559277521	99.999999553	259.5439903404	-134.9997600000	0.0000000000	0.0000000000
290	DA24	5789.7739394300	-56.7280687579	99.999999553	258.4718583166	-134.9997600000	0.0000000000	0.0000000000
291	IPM9A25	5789.7739394300	-56.7280687579	99.999999553	258.4718583166	-134.9997600000	0.0000000000	0.0000000000
292	DA08	5789.9985894300	-56.8869209617	99.999999553	258.3130074436	-134.9997600000	0.0000000000	0.0000000000
293	MQA9A25	5790.2985894300	-57.0990538846	99.999999553	258.1008762978	-134.9997600000	0.0000000000	0.0000000000
294	DA12	5790.4917394300	-57.2356321315	99.999999553	257.9642991951	-134.9997600000	0.0000000000	0.0000000000
295	MBC9A25H	5790.4917394400	-57.2356321386	99.999999553	257.9642991880	-134.9997600000	0.0000000000	0.0000000000
296	DA34	5791.1932894400	-57.7317049789	99.999999553	257.4682305036	-134.9997600000	0.0000000000	0.0000000000
297	ITV9A25	5791.1932894400	-57.7317049789	99.999999553	257.4682305036	-134.9997600000	0.0000000000	0.0000000000
298	DA22	5792.0394594400	-58.3300400302	99.999999553	256.8699004649	-134.9997600000	0.0000000000	0.0000000000
299	MBA9A25	5795.0406694400	-60.3447296755	99.999999553	254.6470520895	-140.6247500000	0.0000000000	0.0000000000
300	DA23	5797.4102194400	-61.8479642743	99.999999553	252.8153717288	-140.6247500000	0.0000000000	0.0000000000
301	MBA9A26	5800.4114294400	-63.6350758177	99.999999553	250.4057531701	-146.2497400000	0.0000000000	0.0000000000
302	DA24	5801.9276594400	-64.4774537930	99.999999553	249.1450578224	-146.2497400000	0.0000000000	0.0000000000
303	IPM9A26	5801.9276594400	-64.4774537930	99.999999553	249.1450578224	-146.2497400000	0.0000000000	0.0000000000
304	DA08	5802.1523094400	-64.6022634935	99.999999553	248.9582687404	-146.2497400000	0.0000000000	0.0000000000
305	MQA9A26	5802.4523094400	-64.7689356953	99.999999553	248.7088286130	-146.2497400000	0.0000000000	0.0000000000
306	DA25	5802.8415494400	-64.9851873214	99.999999553	248.3851883624	-146.2497400000	0.0000000000	0.0000000000
307	MBC9A26V	5802.8415494500	-64.9851873270	99.999999553	248.3851883541	-146.2497400000	0.0000000000	0.0000000000
308	DA26	5805.5844794500	-66.5090879356	99.999999553	246.1045323257	-146.2497400000	0.0000000000	0.0000000000
309	DA08	5805.8091294500	-66.6338976360	99.999999553	245.9177432436	-146.2497400000	0.0000000000	0.0000000000
310	MQA9A27	5806.1091294500	-66.8005698379	99.999999553	245.6683031163	-146.2497400000	0.0000000000	0.0000000000
311	DA12	5806.3022794500	-66.9078789571	99.999999553	245.5077052476	-146.2497400000	0.0000000000	0.0000000000
312	MBC9A27H	5806.3022794600	-66.9078789627	99.999999553	245.5077052393	-146.2497400000	0.0000000000	0.0000000000
313	DA35	5809.4659394600	-68.6655262228	99.999999553	242.8772260616	-146.2497400000	0.0000000000	0.0000000000
314	IPM9A28	5809.4659394600	-68.6655262228	99.999999553	242.8772260616	-146.2497400000	0.0000000000	0.0000000000
315	MQA9A28	5809.7659394600	-68.8321984247	99.999999553	242.6277859342	-146.2497400000	0.0000000000	0.0000000000
316	DA25	5810.1551794600	-69.0484500508	99.999999553	242.3041456836	-146.2497400000	0.0000000000	0.0000000000
317	MBC9A28V	5810.1551794700	-69.0484500564	99.999999553	242.3041456753	-146.2497400000	0.0000000000	0.0000000000
318	DA29	5811.5068194700	-69.7993861060	99.999999553	241.1803014962	-146.2497400000	0.0000000000	0.0000000000
319	MBA9A27	5814.5080294700	-71.3417087476	99.999999553	238.6071186157	-151.8747300000	0.0000000000	0.0000000000
320	DA23	5816.8775794700	-72.4587167331	99.999999553	236.5173673475	-151.8747300000	0.0000000000	0.0000000000
321	MBA9A28	5819.8787894700	-73.7413971154	99.999999553	233.8054012150	-157.4997200000	0.0000000000	0.0000000000
322	DA24	5821.3950194700	-74.3216400617	99.999999553	232.4045901870	-157.4997200000	0.0000000000	0.0000000000
323	IPM9A29	5821.3950194700	-74.3216400617	99.999999553	232.4045901870	-157.4997200000	0.0000000000	0.0000000000
324	DA08	5821.6196694700	-74.4076109091	99.999999553	231.1970410701	-157.4997200000	0.0000000000	0.0000000000
325	MQA9A29	5821.9196694700	-74.5224172933	99.999999553	231.9198777714	-157.4997200000	0.0000000000	0.0000000000
326	DA12	5822.1128194700	-74.5963334703	99.999999553	231.7414308010	-157.4997200000	0.0000000000	0.0000000000
327	MBC9A29H	5822.1128194800	-74.5963334741	99.999999553	231.7414307917	-157.4997200000	0.0000000000	0.0000000000
328	DA30	5823.6605394800	-75.1886272639	99.999999553	230.3115268561	-157.4997200000	0.0000000000	0.0000000000
329	MBA9A29	5826.6617494800	-76.1993125176	99.999999553	227.4868950952	-163.1247100000	0.0000000000	0.0000000000
330	DA23	5829.0312994800	-76.8871680516	99.999999553	225.2193806042	-163.1247100000	0.0000000000	0.0000000000
331	MBA9A30	5832.0325094800	-77.6161247598	99.999999553	222.3092858660	-168.7497000000	0.0000000000	0.0000000000
332	DA36	5833.7733994800	-77.9557644906	99.999999553	220.6018483576	-168.7497000000	0.0000000000	0.0000000000
333	IPM9A30	5833.7733994800	-77.9557644906	99.999999553	220.6018483576	-168.7497000000	0.0000000000	0.0000000000
334	MQA9A30	5834.0733994800	-78.0142931278	99.999999553	220.3076130799	-168.7497000000	0.0000000000	0.0000000000
335	DA25	5834.4626394800	-78.0902320836	99.999999553	219.9258526150	-168.7497000000	0.0000000000	0.0000000000
336	MBC9A30V	5834.4626394900	-78.0902320856	99.999999553	219.9258526052	-168.7497000000	0.0000000000	0.0000000000
337	DA31	5837.2055594900	-78.6253633176	99.999999553	217.2356398457	-168.7497000000	0.0000000000	0.0000000000
338	DA08	5837.4302094900	-78.6691915121	99.999999553	217.0513066620	-168.7497000000	0.0000000000	0.0000000000
339	MQA9A31	5837.7302094900	-78.7277201493	99.999999553	216.7210713843	-168.7497000000	0.0000000000	0.0000000000
340	DA12	5837.9233594900	-78.7654028369	99.999999553	216.5316329047	-168.7497000000	0.0000000000	0.0000000000
341	MBC9A31H	5837.9233595000	-78.7654028389	99.999999553	216.5316328949	-168.7497000000	0.0000000000	0.0000000000
342	DA32	5840.8623695000	-79.3387903391	99.999999553	213.6490981501	-168.7497000000	0.0000000000	0.0000000000
343	IPM9A32	5840.8623695000	-79.3387903391	99.999999553	213.6490981501	-168.7497000000	0.0000000000	0.0000000000
344	DA08	5841.0870195000	-79.3826185336	99.999999553	213.4287649664	-168.7497000000	0.0000000000	0.0000000000
345	MQA9A32	5841.3870195000	-79.4411471708	99.999999553	213.1345296887	-168.7497000000	0.0000000000	0.0000000000
346	DA25	5841.7762595000	-79.5170861266	99.999999553	212.7527692238	-168.7497000000	0.0000000000	0.0000000000
347	MBC9A32V	5841.7762595100	-79.5170861286	99.999999553	212.7527692140	-168.7497000000	0.0000000000	0.0000000000
348	DA33	5843.1278895100	-79.7807830017	99.999999553	211.4271117861	-168.7497000000	0.0000000000	0.0000000000
349	MBA9A31	5846.1290995100	-80.2209909377	99.999999553	208.4595797745	-174.3746900000	0.0000000000	0.0000000000
350	DA23	5848.4986495100	-80.4532602113	99.999999553	206.1014410620	-174.3746900000	0.0000000000	0.0000000000
351	MBA9A32	5851.4998595100	-80.6004799472	99.999999553	203.1050563038	-179.9996800000	0.0000000000	0.0000000000
352	DA24	5853.0160895100	-80.6004884154	99.999999553	201.5888206308	-179.9996800000	0.0000000000	0.0000000000
353	IPM9R01	5853.0160895100	-80.6004884154	99.999999553	201.5888206308	-179.9996800000	0.0000000000	0.0000000000
354	DA08	5853.2407395100	-80.6004896701	99.999999553	201.3641706308	-179.9996800000	0.0000000000	0.0000000000
355	MQA9R01	5853.5407395100						

377	IPM9R04	5871.0160895600	-80.6005889464	99.9999999553	183.5888205811	-179.9996800000	0.0000000000	0.0000000000
378	DA08	5871.2407395600	-80.6005902011	99.9999999553	183.3641705811	-179.9996800000	0.0000000000	0.0000000000
379	MQA9R04	5871.5407395600	-80.6005918766	99.9999999553	183.0641705811	-179.9996800000	0.0000000000	0.0000000000
380	DA12	5871.7338895600	-80.6005929553	99.9999999553	182.8710205811	-179.9996800000	0.0000000000	0.0000000000
381	MBC9R04H	5871.7338895700	-80.6005929553	99.9999999553	182.8710205711	-179.9996800000	0.0000000000	0.0000000000
382	DA13	5871.9299795700	-80.6005940505	99.9999999553	182.6749305711	-179.9996800000	0.0000000000	0.0000000000
383	MBC9R04V	5871.9299795800	-80.6005940505	99.9999999553	182.6749305611	-179.9996800000	0.0000000000	0.0000000000
384	DA14	5872.4354395800	-80.6005968735	99.9999999553	182.1694705611	-179.9996800000	0.0000000000	0.0000000000
385	ITV9R04	5872.4354395800	-80.6005968735	99.9999999553	182.1694705611	-179.9996800000	0.0000000000	0.0000000000
386	DA38	5874.8255895800	-80.6006102226	99.9999999553	179.7793205611	-179.9996800000	0.0000000000	0.0000000000
387	IPM9R05	5874.8255895800	-80.6006102226	99.9999999553	179.7793205611	-179.9996800000	0.0000000000	0.0000000000
388	DA08	5875.0502395800	-80.6006114773	99.9999999553	179.5546705611	-179.9996800000	0.0000000000	0.0000000000
389	MQA9R05	5875.3502395800	-80.6006131528	99.9999999553	179.2546705611	-179.9996800000	0.0000000000	0.0000000000
390	DA12	5875.5433895800	-80.6006142316	99.9999999553	179.0615205611	-179.9996800000	0.0000000000	0.0000000000
391	MBC9R05H	5875.5433895900	-80.6006142316	99.9999999553	179.0615205511	-179.9996800000	0.0000000000	0.0000000000
392	DA13	5875.7394795900	-80.6006153268	99.9999999553	178.8654305511	-179.9996800000	0.0000000000	0.0000000000
393	MBC9R05V	5875.7394796000	-80.6006153268	99.9999999553	178.8654305411	-179.9996800000	0.0000000000	0.0000000000
394	D50075A	5878.9741896000	-80.6006333928	99.9999999553	175.6307205412	-179.9996800000	0.0000000000	0.0000000000
395	MAR9R01	5879.9742296000	-80.6006389772	100.0148484574	174.6308275358	-179.9996800000	1.7015700000	0.0000000000
396	DA11	5881.2189296000	-80.6006459259	100.0518081232	173.3866763902	-179.9996800000	1.7015700000	0.0000000000
397	MQA9R06	5881.5189296000	-80.6006476007	100.0607162133	173.0868086762	-179.9996800000	1.7015700000	0.0000000000
398	IPM9R06	5881.5189296000	-80.6006476007	100.0607162133	173.0868086762	-179.9996800000	1.7015700000	0.0000000000
399	DA12	5881.7120796000	-80.6006486789	100.0664515387	172.8937438463	-179.9996800000	1.7015700000	0.0000000000
400	MBC9R06H	5881.7120796100	-80.6006486789	100.0664515390	172.8937438363	-179.9996800000	1.7015700000	0.0000000000
401	DA13	5881.9081696100	-80.6006497736	100.0722741636	172.6977403028	-179.9996800000	1.7015700000	0.0000000000
402	MBC9R06V	5881.9081696200	-80.6006497736	100.0722741639	172.6977402928	-179.9996800000	1.7015700000	0.0000000000
403	DA16A	5884.7014796200	-80.6006653675	100.1552176878	169.9056620117	-179.9996800000	1.7015700000	0.0000000000
404	IPM9R07	5884.7014796200	-80.6006653675	100.1552176878	169.9056620117	-179.9996800000	1.7015700000	0.0000000000
405	DA08	5884.9261296200	-80.6006666217	100.1618883626	169.6811110718	-179.9996800000	1.7015700000	0.0000000000
406	MQA9R07	5885.2261296200	-80.6006682965	100.1707964527	169.3812433578	-179.9996800000	1.7015700000	0.0000000000
407	DA12	5885.4192796200	-80.6006693747	100.1765317780	169.1881785279	-179.9996800000	1.7015700000	0.0000000000
408	MBC9R07H	5885.4192796300	-80.6006693747	100.1765317783	169.1881785179	-179.9996800000	1.7015700000	0.0000000000
409	DA13	5885.6153696300	-80.6006704694	100.1823544030	168.9921749844	-179.9996800000	1.7015700000	0.0000000000
410	MBC9R07V	5885.6153696400	-80.6006704694	100.1823544033	168.9921749744	-179.9996800000	1.7015700000	0.0000000000
411	DA39	5888.3727796400	-80.6006858629	100.2642319257	166.2359808631	-179.9996800000	1.7015700000	0.0000000000
412	MYR9R03	5890.3730696400	-80.6006970330	100.2939320479	164.2359848832	-179.9996800000	0.0000000000	0.0000000000
413	D50071	5890.9730636400	-80.6007003840	100.2939320479	163.6359908832	-179.9996800000	0.0000000000	0.0000000000
414	MYR9R04	5893.9758736400	-80.6007171392	100.1815370668	160.6359873439	-179.9996800000	-4.2911600000	0.0000000000
415	D50070	5894.8602326400	-80.6007220645	100.1153650168	159.7541074764	-179.9996800000	-4.2911600000	0.0000000000
416	MS9R05	5895.8619126400	-80.6007276496	100.0583973976	158.7541028332	-179.9996800000	-2.2297700000	0.0000000000
417	D50069	5896.8626726400	-80.6007332347	100.0194608229	157.7541005728	-179.9996800000	-2.2297700000	0.0000000000
418	MAQ9R06	5897.8629226400	-80.6007388197	100.0000000006	156.7541030368	-179.9996800000	0.0000000000	0.0000000000

1
STOP

ArcA.out

IDIMAT VERSION 2.9 PROD
ODATE AND TIME OF THIS RUN: 12-JUN-2007 12:48:34

XSIF Parser Version 2.1
Version Date: 01-JAN-2004
Run: 12-JUN-2007 12:48:34
XSIF Parser developed by NLC Department,
Stanford Linear Accelerator Center.

UTRANSPORT

TITLE
CONVERTED FROM ../././OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//ARCA.OPT

- 5
MAW2S01: SBEND, L=1.00026, ANGLE=2.24386, K1=-0, &
E1=0, E2=2.24387, HGAP=0.01905, &
HGAPX=0.01905, &
FINT=0.5, TILT=90
- 10
D60000: DRIFT, L=2.00154
MX4S02: SBEND, L=1.00157, ANGLE=1.84454, K1=-0, &
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HGAPX=0.0237493, &
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- 15
D60001: DRIFT, L=0.222612
MYR8S03: SBEND, L=3.00255, ANGLE=-4.0884, K1=-0, &
E1=-4.0884, E2=-0, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=90
- 20
D60002: DRIFT, L=0.265765
MBMAS00H: GKICK, L=1E-08, DXP=0, DYP=0
D60003: DRIFT, L=0.15726
IPMAS01: MONITOR, L=0
D60004: DRIFT, L=0.187034
- 25
MYRAS04: SBEND, L=3.00255, ANGLE=-4.08789, K1=-0, &
E1=-0, E2=-4.0884, HGAP=0.0127, &
HGAPX=0.0127002, &
FINT=0.5, TILT=90
D60005C: DRIFT, L=0.17218
- 30
IPMAS01A: MONITOR, L=0
D60005D: DRIFT, L=0.2
MQAAS01: QUADRUPOLE, L=0.3, K1=-0.00269731, TILT=0
D60005E: DRIFT, L=0.7
MXHAS05: SBEND, L=2.00042, ANGLE=4.08789, K1=-0, &
- 35
E1=2.04395, E2=2.04395, HGAP=0.0190625, &
HGAPX=0.0189895, &
FINT=0.5, TILT=90
D60006: DRIFT, L=1.20518
IPMAS02: MONITOR, L=0
- 40
D90004: DRIFT, L=0.22465
MQAAS02: QUADRUPOLE, L=0.3, K1=-0.778415, TILT=0
D90009: DRIFT, L=0.19315

MBCAS02H: GKICK, L=1E-08, DXF=0, DYP=0
 D90010: DRIFT, L=0.19609
 45 MBCAS02V: GKICK, L=1E-08, DXF=0, DYP=0
 D90011A: DRIFT, L=1.58611
 IPMAS03: MONITOR, L=0
 MQAAS03: QUADRUPOLE, L=0.3, K1=0.543443, TILT=0
 D90012A: DRIFT, L=0.48924
 50 MBCAS03V: GKICK, L=1E-08, DXF=0, DYP=0
 MBCAS03H: GKICK, L=1E-08, DXF=0, DYP=0
 D90013: DRIFT, L=0.31166
 DIP: DRIFT, L=1.00007
 D90014: DRIFT, L=2.69203
 55 D90015: DRIFT, L=1.27496
 ITVAS04: MONITOR, L=0
 D90016: DRIFT, L=0.3199
 IPMAS04: MONITOR, L=0
 MQAAS04: QUADRUPOLE, L=0.3, K1=-0.842998, TILT=0
 60 D90019: DRIFT, L=0.1445
 MBCAS04V: GKICK, L=1E-08, DXF=0, DYP=0
 MBCAS04H: GKICK, L=1E-08, DXF=0, DYP=0
 QUAD: DRIFT, L=0.3
 D90017: DRIFT, L=0.6372
 65 IPMAS05: MONITOR, L=0
 D90018: DRIFT, L=0.2183
 MQAAS05: QUADRUPOLE, L=0.3, K1=0.0347802, TILT=0
 D90020: DRIFT, L=0.1929
 MBCAS05H: GKICK, L=1E-08, DXF=0, DYP=0
 70 D90021: DRIFT, L=0.46651
 IPMAS06: MONITOR, L=0
 MQAAS06: QUADRUPOLE, L=0.3, K1=0.717332, TILT=0
 MBCAS06V: GKICK, L=1E-08, DXF=0, DYP=0
 MBCAS06H: GKICK, L=1E-08, DXF=0, DYP=0
 75 D90022: DRIFT, L=3.8372
 IPMAS07: MONITOR, L=0
 MQAAS07: QUADRUPOLE, L=0.3, K1=-0.884567, TILT=0
 D90023: DRIFT, L=0.38899
 MBCAS07V: GKICK, L=1E-08, DXF=0, DYP=0
 80 D90024: DRIFT, L=1.84821
 IPMAS08: MONITOR, L=0
 MQAAS08: QUADRUPOLE, L=0.3, K1=0.711697, TILT=0
 MQAAS08A: QUADRUPOLE, L=0.3, K1=0.711697, TILT=0
 MBCAS08H: GKICK, L=1E-08, DXF=0, DYP=0
 85 IPMAS09: MONITOR, L=0
 MQAAS09: QUADRUPOLE, L=0.3, K1=-0.976028, TILT=0
 MBCAS09V: GKICK, L=1E-08, DXF=0, DYP=0
 MBCAS09H: GKICK, L=1E-08, DXF=0, DYP=0
 90 IPMAS10: MONITOR, L=0
 MQAAS10: QUADRUPOLE, L=0.3, K1=0.632597, TILT=0
 MQAAS10A: QUADRUPOLE, L=0.3, K1=0.632597, TILT=0
 D90025: DRIFT, L=0.1929
 MBCAS10H: GKICK, L=1E-08, DXF=0, DYP=0
 95 MBCAS10V: GKICK, L=1E-08, DXF=0, DYP=0
 MATAS10H: GKICK, L=1E-08, DXF=0, DYP=0
 D90026: DRIFT, L=15.4141
 IPMAE01: MONITOR, L=0
 MQCAE01: QUADRUPOLE, L=0.3, K1=-0.371504, TILT=0
 100 MBMAE01H: GKICK, L=1E-08, DXF=0, DYP=0
 MBMAE01V: GKICK, L=1E-08, DXF=0, DYP=0
 D90007: DRIFT, L=0.50546
 IHAAE01: MONITOR, L=0
 D90027: DRIFT, L=0.2303
 105 MBYAE01: SBEND, L=1.00029, ANGLE=0, K1=0, &
 E1=0, E2=0, HGAP=0, &
 HGAPX=0, &
 FINT=0.5, TILT=0
 D90028: DRIFT, L=5.00442
 110 MBZAE02: SBEND, L=2.00059, ANGLE=0, K1=0, &
 E1=0, E2=0, HGAP=0, &
 HGAPX=0, &
 FINT=0.5, TILT=0
 115 MBYAE03: SBEND, L=1.00029, ANGLE=0, K1=0, &
 E1=0, E2=0, HGAP=0, &
 HGAPX=0, &
 FINT=0.5, TILT=0
 D90029: DRIFT, L=0.900346
 IPMAE02: MONITOR, L=0
 MQCAE02: QUADRUPOLE, L=0.3, K1=0.351245, TILT=0
 120 MBMAE02H: GKICK, L=1E-08, DXF=0, DYP=0
 MBMAE02V: GKICK, L=1E-08, DXF=0, DYP=0
 ITVAE02: MONITOR, L=0
 D90030: DRIFT, L=15.1307
 IPMAE03: MONITOR, L=0
 125 MQCAE03: QUADRUPOLE, L=0.3, K1=-0.332767, TILT=0
 MBMAE03H: GKICK, L=1E-08, DXF=0, DYP=0
 MBMAE03V: GKICK, L=1E-08, DXF=0, DYP=0
 D90031B: DRIFT, L=15.5813
 IPMAA01: MONITOR, L=0
 130 MQPAA01: QUADRUPOLE, L=0.3, K1=0.481169, TILT=0
 MBDA01H: GKICK, L=1E-08, DXF=0, DYP=0
 MBDA01V: GKICK, L=1E-08, DXF=0, DYP=0
 ITVAA01: MONITOR, L=0
 D90032: DRIFT, L=0.35899
 135 MXPAA01: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
 E1=2.8125, E2=2.8125, HGAP=0.0127, &
 HGAPX=0.0127, &
 FINT=0.5, TILT=0
 D90033: DRIFT, L=1.01157
 140 MXPAA02: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
 E1=2.8125, E2=2.8125, HGAP=0.0127, &
 HGAPX=0.0127, &
 FINT=0.5, TILT=0
 D90034: DRIFT, L=1.02903
 145 IPMAA02: MONITOR, L=0
 MQPAA02: QUADRUPOLE, L=0.3, K1=-0.575793, TILT=0

D90012: DRIFT, L=0.38924
MBDAA02V: GKICK, L=1E-08, DXP=0, DYP=0
D90035: DRIFT, L=3.07141
150 IPMAA03: MONITOR, L=0
MQPAA03: QUADRUPOLE, L=0.3, K1=1.03351, TILT=0
MBDAA03H: GKICK, L=1E-08, DXP=0, DYP=0
D90036: DRIFT, L=0.41809
D90037: DRIFT, L=2.8494
155 IPMAA04: MONITOR, L=0
MQPAA04: QUADRUPOLE, L=0.3, K1=-0.575793, TILT=0
MBDAA04V: GKICK, L=1E-08, DXP=0, DYP=0
D90038: DRIFT, L=0.86445
160 MXPAA03: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
165 MXPAA04: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
IPMAA05: MONITOR, L=0
MQPAA05: QUADRUPOLE, L=0.3, K1=0.474126, TILT=0
MBDAA05H: GKICK, L=1E-08, DXP=0, DYP=0
170 D90039A: DRIFT, L=0.70155
MXPAA05: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
175 MXPAA06: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
IPMAA06: MONITOR, L=0
MQPAA06: QUADRUPOLE, L=0.3, K1=-0.575793, TILT=0
180 MBDAA06V: GKICK, L=1E-08, DXP=0, DYP=0
D90040: DRIFT, L=3.0714
IPMAA07: MONITOR, L=0
MQPAA07: QUADRUPOLE, L=0.3, K1=1.03351, TILT=0
185 MBDAA07H: GKICK, L=1E-08, DXP=0, DYP=0
D90041: DRIFT, L=3.26749
IPMAA08: MONITOR, L=0
MQPAA08: QUADRUPOLE, L=0.3, K1=-0.575793, TILT=0
190 MBDAA08V: GKICK, L=1E-08, DXP=0, DYP=0
MXPAA07: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
195 MXPAA08: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
IPMAA09: MONITOR, L=0
MQPAA09: QUADRUPOLE, L=0.3, K1=0.590777, TILT=0
200 MBDAA09H: GKICK, L=1E-08, DXP=0, DYP=0
D90042: DRIFT, L=0.70155
ITVAA09: MONITOR, L=0
MXPAA09: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
205 HGAPX=0.0127, &
FINT=0.5, TILT=0
MXPAA10: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
210 FINT=0.5, TILT=0
IPMAA10: MONITOR, L=0
MQPAA10: QUADRUPOLE, L=0.3, K1=-0.575793, TILT=0
MBDAA10V: GKICK, L=1E-08, DXP=0, DYP=0
MQPAA11: QUADRUPOLE, L=0.3, K1=1.03351, TILT=0
215 MBDAA11H: GKICK, L=1E-08, DXP=0, DYP=0
D90043: DRIFT, L=3.49214
IPMAA12: MONITOR, L=0
MQPAA12: QUADRUPOLE, L=0.3, K1=-0.575793, TILT=0
MBDAA12V: GKICK, L=1E-08, DXP=0, DYP=0
220 MXPAA11: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
225 MXPAA12: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
IPMAA13: MONITOR, L=0
MQPAA13: QUADRUPOLE, L=0.3, K1=0.474126, TILT=0
230 MBDAA13H: GKICK, L=1E-08, DXP=0, DYP=0
D90039: DRIFT, L=1.06054
MXPAA13: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
235 FINT=0.5, TILT=0
MXPAA14: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
240 D90044: DRIFT, L=1.25368
IPMAA14: MONITOR, L=0
MQPAA14: QUADRUPOLE, L=0.3, K1=-0.575793, TILT=0
MBDAA14V: GKICK, L=1E-08, DXP=0, DYP=0
MQPAA15: QUADRUPOLE, L=0.3, K1=1.03351, TILT=0
245 MBDAA15H: GKICK, L=1E-08, DXP=0, DYP=0
IPMAA16: MONITOR, L=0
MQPAA16: QUADRUPOLE, L=0.3, K1=-0.575793, TILT=0
MBDAA16V: GKICK, L=1E-08, DXP=0, DYP=0
MXPAA15: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
250 E1=2.8125, E2=2.8125, HGAP=0.0127, &

255 HGAPX=0.0127, &
FINT=0.5, TILT=0
MXPAA16: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
IPMAA17: MONITOR, L=0
MQPAA17: QUADRUPOLE, L=0.3, K1=0.590777, TILT=0
MBDAA17H: GKICK, L=1E-08, DXP=0, DYP=0
260 ITVAA17: MONITOR, L=0
MXPAA17: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
265 MXPAA18: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
IPMAA18: MONITOR, L=0
270 MQPAA18: QUADRUPOLE, L=0.3, K1=-0.575793, TILT=0
MBDAA18V: GKICK, L=1E-08, DXP=0, DYP=0
MQPAA19: QUADRUPOLE, L=0.3, K1=1.03351, TILT=0
MBDAA19H: GKICK, L=1E-08, DXP=0, DYP=0
275 IPMAA20: MONITOR, L=0
MQPAA20: QUADRUPOLE, L=0.3, K1=-0.575793, TILT=0
MBDAA20V: GKICK, L=1E-08, DXP=0, DYP=0
MXPAA19: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
280 FINT=0.5, TILT=0
MXPAA20: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
285 IPMAA21: MONITOR, L=0
MQPAA21: QUADRUPOLE, L=0.3, K1=0.474126, TILT=0
MBDAA21H: GKICK, L=1E-08, DXP=0, DYP=0
MXPAA21: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
290 HGAPX=0.0127, &
FINT=0.5, TILT=0
MXPAA22: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
295 FINT=0.5, TILT=0
IPMAA22: MONITOR, L=0
MQPAA22: QUADRUPOLE, L=0.3, K1=-0.575793, TILT=0
MBDAA22V: GKICK, L=1E-08, DXP=0, DYP=0
MQPAA23: QUADRUPOLE, L=0.3, K1=1.03351, TILT=0
300 MBDAA23H: GKICK, L=1E-08, DXP=0, DYP=0
IPMAA24: MONITOR, L=0
MQPAA24: QUADRUPOLE, L=0.3, K1=-0.575793, TILT=0
MBDAA24V: GKICK, L=1E-08, DXP=0, DYP=0
305 MXPAA23: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
MXPAA24: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
310 HGAPX=0.0127, &
FINT=0.5, TILT=0
IPMAA25: MONITOR, L=0
MQPAA25: QUADRUPOLE, L=0.3, K1=0.590777, TILT=0
MBDAA25H: GKICK, L=1E-08, DXP=0, DYP=0
315 ITVAA25: MONITOR, L=0
MXPAA25: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
320 MXPAA26: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
IPMAA26: MONITOR, L=0
325 MQPAA26: QUADRUPOLE, L=0.3, K1=-0.575793, TILT=0
MBDAA26V: GKICK, L=1E-08, DXP=0, DYP=0
MQPAA27: QUADRUPOLE, L=0.3, K1=1.03351, TILT=0
MBDAA27H: GKICK, L=1E-08, DXP=0, DYP=0
IPMAA28: MONITOR, L=0
330 MQPAA28: QUADRUPOLE, L=0.3, K1=-0.575793, TILT=0
MBDAA28V: GKICK, L=1E-08, DXP=0, DYP=0
MXPAA27: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
335 FINT=0.5, TILT=0
MXPAA28: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=0
340 IPMAA29: MONITOR, L=0
MQPAA29: QUADRUPOLE, L=0.3, K1=0.474126, TILT=0
MBDAA29H: GKICK, L=1E-08, DXP=0, DYP=0
MXPAA29: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
345 HGAPX=0.0127, &
FINT=0.5, TILT=0
MXPAA30: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
E1=2.8125, E2=2.8125, HGAP=0.0127, &
HGAPX=0.0127, &
350 FINT=0.5, TILT=0
IPMAA30: MONITOR, L=0
MQPAA30: QUADRUPOLE, L=0.3, K1=-0.575793, TILT=0
MBDAA30V: GKICK, L=1E-08, DXP=0, DYP=0
MQPAA31: QUADRUPOLE, L=0.3, K1=1.03351, TILT=0

355 MBDA31H: GKICK, L=1E-08, DXP=0, DYP=0
 IPMA32: MONITOR, L=0
 MQPA32: QUADRUPOLE, L=0.3, K1=-0.575793, TILT=0
 MBDA32V: GKICK, L=1E-08, DXP=0, DYP=0
 MXPAA31: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
 360 E1=2.8125, E2=2.8125, HGAP=0.0127, &
 HGAPX=0.0127, &
 FINT=0.5, TILT=0
 MXPAA32: SBEND, L=4.00161, ANGLE=5.62499, K1=-0, &
 E1=2.8125, E2=2.8125, HGAP=0.0127, &
 365 HGAPX=0.0127, &
 FINT=0.5, TILT=0
 D90045B: DRIFT, L=0.667719
 ITVAR01: MONITOR, L=0
 D90046: DRIFT, L=0.1016
 370 IPMAR01: MONITOR, L=0
 MQRAR01: QUADRUPOLE, L=0.5, K1=0.719971, TILT=0
 MBCAR01H: GKICK, L=1E-08, DXP=0, DYP=0
 D90019A: DRIFT, L=0.2445
 D90047: DRIFT, L=2.0443
 375 IPMAR02: MONITOR, L=0
 MQAAR02: QUADRUPOLE, L=0.3, K1=-1.00823, TILT=0
 MQAAR02A: QUADRUPOLE, L=0.3, K1=-1.00823, TILT=0
 MBCAR02H: GKICK, L=1E-08, DXP=0, DYP=0
 MBCAR02V: GKICK, L=1E-08, DXP=0, DYP=0
 380 IPMAR03: MONITOR, L=0
 MQAAR03: QUADRUPOLE, L=0.3, K1=0.91463, TILT=0
 MQAAR03A: QUADRUPOLE, L=0.3, K1=0.91463, TILT=0
 MBCAR03H: GKICK, L=1E-08, DXP=0, DYP=0
 D90047A: DRIFT, L=1.8443
 385 IPMAR04: MONITOR, L=0
 MQRAR04: QUADRUPOLE, L=0.5, K1=-0.893653, TILT=0
 MQAAR04A: QUADRUPOLE, L=0.3, K1=-0.893653, TILT=0
 MBCAR04H: GKICK, L=1E-08, DXP=0, DYP=0
 MBCAR04V: GKICK, L=1E-08, DXP=0, DYP=0
 390 D90048: DRIFT, L=1.74661
 ITVAR05: MONITOR, L=0
 MQAAR05: QUADRUPOLE, L=0.3, K1=0.629211, TILT=0
 IPMAR05: MONITOR, L=0
 MBCAR05H: GKICK, L=1E-08, DXP=0, DYP=0
 395 MBCAR05V: GKICK, L=1E-08, DXP=0, DYP=0
 D90049: DRIFT, L=0.6372
 IPMAR06: MONITOR, L=0
 MQAAR06: QUADRUPOLE, L=0.3, K1=0.521985, TILT=0
 MBCAR06H: GKICK, L=1E-08, DXP=0, DYP=0
 400 D90050: DRIFT, L=1.1071
 IPMAR07: MONITOR, L=0
 MQAAR07: QUADRUPOLE, L=0.3, K1=-1.00092, TILT=0
 MBCAR07H: GKICK, L=1E-08, DXP=0, DYP=0
 MBCAR07V: GKICK, L=1E-08, DXP=0, DYP=0
 405 D90051: DRIFT, L=0.2498
 D90052A: DRIFT, L=0.576246
 IPMAR08: MONITOR, L=0
 MQAAR08: QUADRUPOLE, L=0.3, K1=0.461791, TILT=0
 MBCAR08H: GKICK, L=1E-08, DXP=0, DYP=0
 410 MBCAR08V: GKICK, L=1E-08, DXP=0, DYP=0
 IPMAR09: MONITOR, L=0
 MQAAR09: QUADRUPOLE, L=0.3, K1=-0.367167, TILT=0
 MBCAR09H: GKICK, L=1E-08, DXP=0, DYP=0
 D90053A: DRIFT, L=1.2363
 415 MXHAR01: SBEND, L=2.00042, ANGLE=4.08789, K1=-0, &
 E1=2.04395, E2=2.04395, HGAP=0.0189895, &
 HGAPX=0.0190625, &
 FINT=0.5, TILT=90
 D60005: DRIFT, L=1.37218
 420 MYRAR03: SBEND, L=3.00255, ANGLE=-4.08789, K1=-0, &
 E1=-4.0884, E2=-0, HGAP=0.0127002, &
 HGAPX=0.0127, &
 FINT=0.5, TILT=90
 IPMAR00: MONITOR, L=0
 425 MEMAR00H: GKICK, L=1E-08, DXP=0, DYP=0
 MYR8R04: SBEND, L=3.00255, ANGLE=-4.0884, K1=-0, &
 E1=-0, E2=-4.0884, HGAP=0.0127, &
 HGAPX=0.0127, &
 FINT=0.5, TILT=90
 430 MXX4R05: SBEND, L=1.00157, ANGLE=1.84454, K1=-0, &
 E1=4.0884, E2=2.24387, HGAP=0.0237493, &
 HGAPX=0.023749, &
 FINT=0.5, TILT=90
 MAW2R06: SBEND, L=1.00026, ANGLE=2.24386, K1=-0, &
 435 E1=2.24387, E2=0, HGAP=0.01905, &
 HGAPX=0.01905, &
 FINT=0.5, TILT=90
 ARCA: LINE=(MAW2S01, &
 440 D60000, MXX4S02, D60001, MYR8S03, D60002, &
 MBMAS00H, D60003, IPMAS01, D60004, MYRAS04, &
 D60005C, IPMAS01A, D60005D, MQAAS01, D60005E, &
 MXHAS05, D60006, IPMAS02, D90004, MQAAS02, &
 D90009, MBCAS02H, D90010, MBCAS02V, D90011A, &
 445 IPMAS03, D90004, MQAAS03, D90012A, MBCAS03V, &
 MBCAS03H, D90013, DIP, D90014, DIP, &
 D90015, ITVAS04, D90016, IPMAS04, MQAAS04, &
 D90019, MBCAS04V, MBCAS04H, QUAD, D90017, &
 IPMAS05, D90018, MQAAS05, D90020, MBCAS05H, &
 450 D90010, D90019, QUAD, D90021, IPMAS06, &
 MQAAS06, D90019, MBCAS06V, MBCAS06H, QUAD, &
 D90022, IPMAS07, D90018, MQAAS07, D90023, &
 MBCAS07V, D90019, QUAD, D90024, IPMAS08, &
 D90018, MQAAS08, D90019, MQAAS08A, D90023, &
 455 MBCAS08H, D90024, IPMAS09, D90018, MQAAS09, &
 D90023, MBCAS09V, MBCAS09H, D90019, QUAD, &
 D90024, IPMAS10, D90018, MQAAS10, D90019, &
 MQAAS10A, D90025, MBCAS10H, D90010, MBCAS10V, &

460 MATAS10H, D90026, IPMAE01, D90004, MQCAE01, &
D90009, MBMAE01H, D90010, MBMAE01V, D90007, &
IHAAE01, D90027, MBYAE01, D90028, MBZAE02, &
D90028, MBYAE03, D90029, IPMAE02, D90004, &
MQCAE02, D90009, MBMAE02H, D90010, MBMAE02V, &
D90007, ITVAE02, D90030, IPMAE03, D90004, &
465 MQCAE03, D90009, MBMAE03H, D90010, MBMAE03V, &
D90031B, IPMAA01, D90004, MQPAA01, D90009, &
MBDAA01H, D90010, MBDAA01V, D90007, ITVAA01, &
D90032, MXPAA01, D90033, MXPAA02, D90034, &
IPMAA02, D90004, MQPAA02, D90012, MBDAA02V, &
470 D90035, IPMAA03, D90004, MQPAA03, D90009, &
MBDAA03H, D90036, D90037, IPMAA04, D90004, &
MQPAA04, D90012, MBDAA04V, D90038, MXPAA03, &
D90033, MXPAA04, D90034, IPMAA05, D90004, &
MQPAA05, D90009, MBDAA05H, D90039A, D90032, &
475 MXPAA05, D90033, MXPAA06, D90034, IPMAA06, &
D90004, MQPAA06, D90012, MBDAA06V, D90040, &
IPMAA07, D90004, MQPAA07, D90009, MBDAA07H, &
D90041, IPMAA08, D90004, MQPAA08, D90012, &
MBDAA08V, D90038, MXPAA07, D90033, MXPAA08, &
480 D90034, IPMAA09, D90004, MQPAA09, D90009, &
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MQPAA11, D90009, MBDAA11H, D90043, IPMAA12, &
485 MQPAA12, D90012, MBDAA12V, D90038, MXPAA11, &
D90033, MXPAA12, D90034, IPMAA13, D90004, &
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D90033, MXPAA14, D90044, IPMAA14, MQPAA14, &
D90012, MBDAA14V, D90040, D90004, MQPAA15, &
490 D90009, MBDAA15H, D90041, IPMAA16, D90004, &
MQPAA16, D90012, MBDAA16V, D90038, MXPAA15, &
D90033, MXPAA16, D90034, IPMAA17, D90004, &
MQPAA17, D90009, MBDAA17H, D90042, ITVAA17, &
D90032, MXPAA17, D90033, MXPAA18, D90034, &
495 IPMAA18, D90004, MQPAA18, D90012, MBDAA18V, &
D90035, D90004, MQPAA19, D90009, MBDAA19H, &
D90043, IPMAA20, MQPAA20, D90012, MBDAA20V, &
D90038, MXPAA19, D90033, MXPAA20, D90034, &
IPMAA21, D90004, MQPAA21, D90009, MBDAA21H, &
500 D90039, MXPAA21, D90033, MXPAA22, D90044, &
IPMAA22, MQPAA22, D90012, MBDAA22V, D90040, &
D90004, MQPAA23, D90009, MBDAA23H, D90041, &
IPMAA24, D90004, MQPAA24, D90012, MBDAA24V, &
D90038, MXPAA23, D90033, MXPAA24, D90034, &
505 IPMAA25, D90004, MQPAA25, D90009, MBDAA25H, &
D90042, ITVAA25, D90032, MXPAA25, D90033, &
MXPAA26, D90034, IPMAA26, D90004, MQPAA26, &
D90012, MBDAA26V, D90035, D90004, MQPAA27, &
D90009, MBDAA27H, D90043, IPMAA28, MQPAA28, &
510 D90012, MBDAA28V, D90038, MXPAA27, D90033, &
MXPAA28, D90034, IPMAA29, D90004, MQPAA29, &
D90009, MBDAA29H, D90039, MXPAA29, D90033, &
MXPAA30, D90044, IPMAA30, MQPAA30, D90012, &
MBDAA30V, D90040, D90004, MQPAA31, D90009, &
515 MBDAA31H, D90041, IPMAA32, D90004, MQPAA32, &
D90012, MBDAA32V, D90038, MXPAA31, D90033, &
MXPAA32, D90045B, ITVAR01, D90046, IPMAR01, &
D90018, MQRAR01, D90025, MBCAR01H, D90019A, &
D90047, IPMAR02, D90018, MQAAR02, D90019, &
520 MQAAR02A, D90025, MBCAR02H, D90010, MBCAR02V, &
D90024, IPMAR03, D90018, MQAAR03, D90019, &
MQAAR03A, D90025, MBCAR03H, D90047A, IPMAR04, &
D90018, MQRAR04, D90019, MQAAR04A, D90020, &
MBCAR04H, D90010, MBCAR04V, D90048, ITVAR05, &
525 D90016, MQAAR05, D90019, IPMAR05, MBCAR05H, &
MBCAR05V, QUAD, D90049, IPMAR06, D90018, &
MQAAR06, D90025, MBCAR06H, D90019, QUAD, &
D90050, IPMAR07, MQAAR07, D90019, MBCAR07H, &
MBCAR07V, QUAD, D90051, DIP, D90014, &
530 DIP, D90052A, IPMAR08, D90004, MQAAR08, &
D90009, MBCAR08H, D90010, MBCAR08V, D90011A, &
IPMAR09, D90004, MQAAR09, D90009, MBCAR09H, &
D90053A, MXHAR01, D60005, MYRAR03, D60004, &
IPMAR00, D60003, MBMAR00H, D60002, MYR8R04, &
535 D60001, MXX4R05, D60000, MAW2R06)
USE, ARCA
DIMAT

1

* DIMAD PROGRAM : LAST MODIFIED ON May 27, 2005 *

CONVERTED FROM ../../OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//ARCA.OPT

1

TOTAL LENGTH OF MACHINE IS: 403.537 METERS

IN THIS RUN THERE ARE :
 297 DISTINCT ELEMENTS. ALLOCATED MXELMD : 298
 480 ELEMENTS IN MACHINE. ALLOCATED MXPOS_D : 482
 104 MATRICES DEFINED. ALLOCATED MAXMAT : 105
 2020 VALUES IN ELDAT. ALLOCATED MAXDAT : 2020
 0 LCAVs. ALLOCATED MX_LCAV : 1

1
OPERATION LIST ,

MACHINE
 1 2 1 0 1 1 1
 68.4879 1.45858 0 0
 45.6821 -0.885022 0 0
 0,

ELEMENT	#	BETAX	ALPHAX	BETAY	ALPHAY	ETAX	ETAPX	ETAY	ETAPY	NUX	NUY	ACC.LEN
\$\$INITIAL\$\$	0	68.4879	1.4586	45.6821	-0.8850	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.000
MW2S01	1	65.6196	1.5097	47.4198	-0.9241	0.0000	0.0000	0.0196	0.0392	0.00237	0.00342	1.000
D60000	2	59.7762	1.4097	51.2756	-1.0023	0.0000	0.0000	0.0980	0.0392	0.00746	0.00988	3.002
MXX4S02	3	56.8582	1.5591	53.4000	-1.1761	0.0000	0.0000	0.1534	0.0717	0.01020	0.01293	4.003
D60001	4	56.1671	1.5457	53.9259	-1.1860	0.0000	0.0000	0.1694	0.0717	0.01082	0.01359	4.226
MYR8S03	5	46.9072	1.4430	61.7375	-1.3196	0.0000	0.0000	0.2779	0.0002	0.02014	0.02187	7.229
D60002	6	46.1449	1.4255	62.4421	-1.3314	0.0000	0.0000	0.2780	0.0002	0.02105	0.02255	7.494
MBMAS00H	7	46.1449	1.4255	62.4421	-1.3314	0.0000	0.0000	0.2780	0.0002	0.02105	0.02255	7.494
D60003	8	45.6981	1.4152	62.8619	-1.3384	0.0000	0.0000	0.2780	0.0002	0.02159	0.02295	7.652
IPMAS01	9	45.6981	1.4152	62.8619	-1.3384	0.0000	0.0000	0.2780	0.0002	0.02159	0.02295	7.652
D60004	10	45.1710	1.4029	63.3641	-1.3467	0.0000	0.0000	0.2781	0.0002	0.02225	0.02342	7.839
MYRAS04	11	37.3406	1.2685	71.5013	-1.4802	0.0000	0.0000	0.1711	-0.0712	0.03389	0.03052	10.841
D60005C	12	36.9059	1.2565	72.0124	-1.4879	0.0000	0.0000	0.1588	-0.0712	0.03463	0.03090	11.013
IPMAS01A	13	36.9059	1.2565	72.0124	-1.4879	0.0000	0.0000	0.1588	-0.0712	0.03463	0.03090	11.013
D60005D	14	36.4061	1.2425	72.6093	-1.4969	0.0000	0.0000	0.1445	-0.0712	0.03550	0.03134	11.213
MQAAS01	15	35.6756	1.1927	73.4937	-1.4508	0.0000	0.0000	0.1232	-0.0713	0.03683	0.03199	11.513
D60005E	16	34.0392	1.1451	75.5455	-1.4803	0.0000	0.0000	0.0732	-0.0713	0.04002	0.03349	12.213
MXHAS05	17	29.5710	1.0829	81.6318	-1.5648	0.0000	0.0000	0.0020	0.0000	0.05006	0.03754	14.214
D60006	18	27.0676	0.9943	85.4649	-1.6157	0.0000	0.0000	0.0021	0.0000	0.05685	0.03983	15.419
IPMAS02	19	27.0676	0.9943	85.4649	-1.6157	0.0000	0.0000	0.0021	0.0000	0.05685	0.03983	15.419
D90004	20	26.6245	0.9778	86.1929	-1.6252	0.0000	0.0000	0.0021	0.0000	0.05818	0.04025	15.644
MQAAS02	21	27.9260	-5.4170	81.2281	17.7863	0.0000	0.0000	0.0020	-0.0004	0.05995	0.04081	15.944
D90009	22	30.0591	-5.6268	74.5030	17.0317	0.0000	0.0000	0.0019	-0.0004	0.06101	0.04121	16.137
MBCAS02H	23	30.0591	-5.6268	74.5030	17.0317	0.0000	0.0000	0.0019	-0.0004	0.06101	0.04121	16.137
D90010	24	32.3076	-5.8399	67.9737	16.2656	0.0000	0.0000	0.0018	-0.0004	0.06201	0.04165	16.333
MBCAS02V	25	32.3076	-5.8399	67.9737	16.2656	0.0000	0.0000	0.0018	-0.0004	0.06201	0.04165	16.333
D90011A	26	53.5666	-7.5633	26.2046	10.0688	0.0000	0.0000	0.0012	-0.0004	0.06808	0.04763	17.919
IPMAS03	27	53.5666	-7.5633	26.2046	10.0688	0.0000	0.0000	0.0012	-0.0004	0.06808	0.04763	17.919
D90004	28	57.0197	-7.8074	21.8779	9.1911	0.0000	0.0000	0.0011	-0.0004	0.06873	0.04912	18.144
MQAAS03	29	58.9054	1.6244	17.6266	5.2099	0.0000	0.0000	0.0010	-0.0003	0.06955	0.05158	18.444
D90012A	30	57.3308	1.5942	12.9110	4.4288	0.0000	0.0000	0.0008	-0.0003	0.07089	0.05674	18.933
MBCAS03V	31	57.3308	1.5942	12.9110	4.4288	0.0000	0.0000	0.0008	-0.0003	0.07089	0.05674	18.933
MBCAS03H	32	57.3308	1.5942	12.9110	4.4288	0.0000	0.0000	0.0008	-0.0003	0.07089	0.05674	18.933
D90013	33	56.3431	1.5749	10.3055	3.9312	0.0000	0.0000	0.0007	-0.0003	0.07176	0.06104	19.244
DIP	34	53.2548	1.5132	4.0394	2.3344	0.0000	0.0000	0.0005	-0.0003	0.07466	0.08581	20.245
D90014	35	45.5555	1.3469	3.0417	-1.9638	0.0000	0.0000	-0.0002	-0.0003	0.08337	0.44643	22.937
DIP	36	42.9234	1.2851	8.5664	-3.5606	0.0000	0.0000	-0.0005	-0.0003	0.08697	0.47782	23.937
D90015	37	39.7469	1.2063	20.2409	-5.5962	0.0000	0.0000	-0.0008	-0.0003	0.09188	0.49325	25.212
ITVSA04	38	39.7469	1.2063	20.2409	-5.5962	0.0000	0.0000	-0.0008	-0.0003	0.09188	0.49325	25.212
D90016	39	38.9814	1.1866	23.9848	-6.1070	0.0000	0.0000	-0.0009	-0.0003	0.09317	0.49556	25.532
IPMAS04	40	38.9814	1.1866	23.9848	-6.1070	0.0000	0.0000	-0.0009	-0.0003	0.09317	0.49556	25.532
MQAAS04	41	41.2717	-9.0129	25.8324	0.1049	0.0000	0.0000	-0.0010	0.0000	0.09438	0.49746	25.832
D90019	42	43.9180	-9.3008	25.8029	0.0993	0.0000	0.0000	-0.0010	0.0000	0.09492	0.49835	25.976
MBCAS04V	43	43.9180	-9.3008	25.8029	0.0993	0.0000	0.0000	-0.0010	0.0000	0.09492	0.49835	25.976
MBCAS04H	44	43.9180	-9.3008	25.8029	0.0993	0.0000	0.0000	-0.0010	0.0000	0.09492	0.49835	25.976
QUAD	45	49.6778	-9.8985	25.7468	0.0875	0.0000	0.0000	-0.0010	0.0000	0.09594	0.50020	26.276
D90017	46	63.1015	-11.1681	25.6512	0.0626	0.0000	0.0000	-0.0010	0.0000	0.09775	0.50415	26.913
IPMAS05	47	63.1015	-11.1681	25.6512	0.0626	0.0000	0.0000	-0.0010	0.0000	0.09775	0.50415	26.913
D90018	48	68.0725	-11.6031	25.6258	0.0540	0.0000	0.0000	-0.0010	0.0000	0.09828	0.50550	27.132
MQAAS05	49	74.9861	-11.4182	25.6771	-0.2253	0.0000	0.0000	-0.0010	0.0000	0.09895	0.50736	27.432
D90020	50	79.4564	-11.7562	25.7655	-0.2332	0.0000	0.0000	-0.0010	0.0000	0.09935	0.50856	27.624
MBCAS05H	51	79.4564	-11.7562	25.7655	-0.2332	0.0000	0.0000	-0.0010	0.0000	0.09935	0.50856	27.624
D90010	52	84.1344	-12.0997	25.8586	-0.2413	0.0000	0.0000	-0.0010	0.0000	0.09973	0.50977	27.820
D90019	53	87.6678	-12.3529	25.9292	-0.2472	0.0000	0.0000	-0.0010	0.0000	0.10000	0.51065	27.965
QUAD	54	95.2372	-12.8785	26.0811	-0.2594	0.0000	0.0000	-0.0010	0.0000	0.10052	0.51249	28.265
D90021	55	107.6344	-13.6958	26.3321	-0.2785	0.0000	0.0000	-0.0011	0.0000	0.10125	0.51532	28.732
IPMAS06	56	107.6344	-13.6958	26.3321	-0.2785	0.0000	0.0000	-0.0011	0.0000	0.10125	0.51532	28.732
MQAAS06	57	108.8565	9.7103	28.2472	-6.2418	0.0000	0.0000	-0.0011	-0.0003	0.10169	0.51709	29.032
D90019	58	106.0685	9.5838	30.0806	-6.4462	0.0000	0.0000	-0.0011	-0.0003	0.10190	0.51788	29.176
MBCAS06V	59	106.0685	9.5838	30.0806	-6.4462	0.0000	0.0000	-0.0011	-0.0003	0.10190	0.51788	29.176
MBCAS06H	60	106.0685	9.5838	30.0806	-6.4462	0.0000	0.0000	-0.0011	-0.0003	0.10190	0.51788	29.176
QUAD	61	100.3970	9.3212	34.0757	-6.8706	0.0000	0.0000	-0.0012	-0.0003	0.10237	0.51937	29.476
D90022	62	41.7514	5.9622	107.6333	-12.2990	0.0000	0.0000	-0.0022	-0.0003	0.11181	0.52946	33.313
IPMAS07	63	41.7514	5.9622	107.6333	-12.2990	0.0000	0.0000	-0.0022	-0.0003	0.11181	0.52946	33.313
D90018	64	39.1900	5.7711	113.0704	-12.6078	0.0000	0.0000	-0.0023	-0.0003	0.11266	0.52978	33.532
MQAAS07	65	38.8252	-4.5228	111.5986	17.3829	0.0000	0.0000	-0.0023	0.0003	0.11391	0.53020	33.832
D90023	66	42.4274	-4.7378	98.4861	16.3262	0.0000	0.0000	-0.0022	0.0003	0.11543	0.53079	34.220
MBCAS07V	67	42.4274	-4.7378	98.4861	16.3262	0.0000	0.0000	-0.0022	0.0003	0.11543	0.53079	34.220
D90019	68	43.8082	-4.8176	93.8246	15.9336	0.0000	0.0000	-0.0021	0.0003	0.11596	0.53103	34.365
QUAD	69	46.7485	-4.9834	84.5089	15.1186	0.0000	0.0000	-0.0020	0.0003	0.11702	0.53157	34.665
D90024	70	67.0569	-6.0048	37.9035	10.0979	0.0000	0.0000	-0.0014	0.0003	0.12227	0.53676	36.513
IPMAS08	71	67.0569	-6.0048	37.9035	10.0979	0.0000	0.0000	-0.0014	0.0003	0.12227	0.53676	36.513
D90018	72	69.7049	-6.1254	33.6242	9.5048	0.0000	0.0000	-0.0013	0.0003	0.12278	0.53774	36.732
MQAAS08	73	68.9036	8.7391	30.1245	2.4089	0.0000	0.0000	-0.0012	0.0001	0.12346	0.53925	37.032
D90019	74	66.4015	8.5768	29.4331	2.3763	0.0000	0.0000	-0.0012	0.0001	0.12380	0.54003	37.176
MQAAS08A	75	57.4081	20.7593	29.8923	-3.9395	0.0000	0.0000	-0.0012	-0.0002	0.12457	0.54165	37.476
D90023	76	42.3969	17.8318	33.0408	-4.1545	0.0000	0.0000	-0.0013	-0.0002	0.12582	0.54362	37.865
MBCAS08H	77	42.3969	17.8318	33.0408	-4.1545	0.0000	0.0000	-0.0013	-0.0002	0.12582	0.54362	37.865
D90024	78	2.1825	3.9268	50.2851	-5.1759	0.0000	0.0000	-0.0016	-0.0002	0.15659	0.55084	39.713
IPMAS09	79	2.1825	3.9268	50.2851	-5.1759	0.0000	0.0000	-0.0016	-0.0002	0.15659	0.55084	39.713

D90018	80	0.8266	2.2844	52.5713	-5.2965	0.0000	0.0000	-0.0017	-0.0002	0.18258	0.55152	39.932
MQAAS09	81	0.1461	0.0497	51.1302	9.9584	0.0000	0.0000	-0.0016	0.0003	0.35243	0.55242	40.232
D90023	82	1.1454	-2.6186	43.6793	9.1963	0.0000	0.0000	-0.0015	0.0003	0.55226	0.55373	40.620
MBCAS09V	83	1.1454	-2.6186	43.6793	9.1963	0.0000	0.0000	-0.0015	0.0003	0.55226	0.55373	40.620
MBCAS09H	84	1.1454	-2.6186	43.6793	9.1963	0.0000	0.0000	-0.0015	0.0003	0.55226	0.55373	40.620
D90019	85	2.0454	-3.6097	41.0624	8.9132	0.0000	0.0000	-0.0015	0.0003	0.56731	0.55428	40.765
QUAD	86	4.8286	-5.6675	35.8908	8.3255	0.0000	0.0000	-0.0014	0.0003	0.58253	0.55552	41.065
D90024	87	49.2089	-18.3451	11.8083	4.7047	0.0000	0.0000	-0.0008	0.0003	0.60166	0.56983	42.913
IPMAS10	88	49.2089	-18.3451	11.8083	4.7047	0.0000	0.0000	-0.0008	0.0003	0.60166	0.56983	42.913
D90018	89	57.5453	-19.8425	9.8477	4.2770	0.0000	0.0000	-0.0007	0.0003	0.60231	0.57305	43.132
MQAAS10	90	66.3951	-9.0951	7.9340	2.2224	0.0000	0.0000	-0.0007	0.0002	0.60307	0.57851	43.432
D90019	91	69.0500	-9.2773	7.3074	2.1142	0.0000	0.0000	-0.0006	0.0002	0.60341	0.58153	43.576
MQAAS10A	92	70.6616	4.0076	6.4828	0.6864	0.0000	0.0000	-0.0006	0.0001	0.60409	0.58853	43.876
D90025	93	69.1245	3.9610	6.2264	0.6426	0.0000	0.0000	-0.0006	0.0001	0.60453	0.59336	44.069
MBCAS10H	94	69.1245	3.9610	6.2264	0.6426	0.0000	0.0000	-0.0006	0.0001	0.60453	0.59336	44.069
D90010	95	67.5803	3.9136	5.9832	0.5981	0.0000	0.0000	-0.0006	0.0001	0.60499	0.59848	44.265
MBCAS10V	96	67.5803	3.9136	5.9832	0.5981	0.0000	0.0000	-0.0006	0.0001	0.60499	0.59848	44.265
MATAS10H	97	67.5803	3.9136	5.9832	0.5981	0.0000	0.0000	-0.0006	0.0001	0.60499	0.59848	44.265
D90026	98	4.2946	0.1921	41.4604	-2.8997	0.0000	0.0000	0.0003	0.0001	0.78497	0.88141	59.679
IPMAE01	99	4.2946	0.1921	41.4604	-2.8997	0.0000	0.0000	0.0003	0.0001	0.78497	0.88141	59.679
D90004	100	4.2205	0.1378	42.7747	-2.9507	0.0000	0.0000	0.0003	0.0001	0.79337	0.88226	59.904
MQCAE01	101	4.3006	-0.4078	43.1117	1.8396	0.0000	0.0000	0.0003	0.0000	0.80465	0.88336	60.204
D90009	102	4.4683	-0.4602	42.4049	1.8200	0.0000	0.0000	0.0003	0.0000	0.81167	0.88408	60.397
MBMAE01H	103	4.4683	-0.4602	42.4049	1.8200	0.0000	0.0000	0.0003	0.0000	0.81167	0.88408	60.397
D90010	104	4.6592	-0.5134	41.6950	1.8000	0.0000	0.0000	0.0004	0.0000	0.81851	0.88483	60.593
MBMAE01V	105	4.6592	-0.5134	41.6950	1.8000	0.0000	0.0000	0.0004	0.0000	0.81851	0.88483	60.593
D90007	106	5.2475	-0.6505	39.9013	1.7486	0.0000	0.0000	0.0004	0.0000	0.83481	0.88680	61.098
IHAEE01	107	5.2475	-0.6505	39.9013	1.7486	0.0000	0.0000	0.0004	0.0000	0.83481	0.88680	61.098
D90027	108	5.5615	-0.7130	39.1013	1.7252	0.0000	0.0000	0.0004	0.0000	0.84159	0.88773	61.329
MBYAE01	109	7.2592	-0.9842	35.7516	1.6235	0.0000	0.0000	0.0004	0.0000	0.86676	0.89198	62.329
D90028	110	23.9023	-2.3415	22.0492	1.1146	0.0000	0.0000	0.0005	0.0000	0.92878	0.92051	67.333
MBZAE02	111	34.3563	-2.8840	17.9966	0.9111	0.0000	0.0000	0.0005	0.0000	0.93990	0.93652	69.334
D90028	112	70.0141	-4.2412	11.4242	0.4022	0.0000	0.0000	0.0006	0.0000	0.95617	0.99326	74.338
MBYAE03	113	78.7704	-4.5125	10.7213	0.3005	0.0000	0.0000	0.0007	0.0000	0.95831	1.00766	75.339
D90029	114	87.1159	-4.7567	10.2626	0.2089	0.0000	0.0000	0.0007	0.0000	0.96004	1.02134	76.239
IPMAE02	115	87.1159	-4.7567	10.2626	0.2089	0.0000	0.0000	0.0007	0.0000	0.96004	1.02134	76.239
D90004	116	89.2668	-4.8176	10.1739	0.1861	0.0000	0.0000	0.0007	0.0000	0.96045	1.02484	76.464
MQCAE02	117	89.3286	4.6135	10.3942	-0.9280	0.0000	0.0000	0.0007	0.0001	0.96098	1.02951	76.764
D90009	118	87.5558	4.5653	10.7593	-0.9626	0.0000	0.0000	0.0007	0.0001	0.96133	1.03242	76.957
MBMAE02H	119	87.5558	4.5653	10.7593	-0.9626	0.0000	0.0000	0.0007	0.0001	0.96133	1.03242	76.957
D90010	120	85.7749	4.5164	11.1437	-0.9977	0.0000	0.0000	0.0007	0.0001	0.96169	1.03527	77.153
MBMAE02V	121	85.7749	4.5164	11.1437	-0.9977	0.0000	0.0000	0.0007	0.0001	0.96169	1.03527	77.153
D90007	122	81.2730	4.3903	12.1980	-1.0882	0.0000	0.0000	0.0008	0.0001	0.96265	1.04217	77.658
ITVAE02	123	81.2730	4.3903	12.1980	-1.0882	0.0000	0.0000	0.0008	0.0001	0.96265	1.04217	77.658
D90030	124	5.5284	0.6157	86.1214	-3.7975	0.0000	0.0000	0.0022	0.0001	1.08917	1.11947	92.789
IPMAE03	125	5.5284	0.6157	86.1214	-3.7975	0.0000	0.0000	0.0022	0.0001	1.08917	1.11947	92.789
D90004	126	5.2643	0.5597	87.8367	-3.8377	0.0000	0.0000	0.0022	0.0001	1.09580	1.11988	93.014
MQCAE03	127	5.1037	-0.0189	87.5051	4.9320	0.0000	0.0000	0.0022	-0.0001	1.10506	1.12042	93.314
D90009	128	5.1183	-0.0567	85.6106	4.8761	0.0000	0.0000	0.0022	-0.0001	1.11108	1.12078	93.507
MBMAE03H	129	5.1183	-0.0567	85.6106	4.8761	0.0000	0.0000	0.0022	-0.0001	1.11108	1.12078	93.507
D90010	130	5.1481	-0.0952	83.7095	4.8193	0.0000	0.0000	0.0022	-0.0001	1.11716	1.12115	93.703
MBMAE03V	131	5.1481	-0.0952	83.7095	4.8193	0.0000	0.0000	0.0022	-0.0001	1.11716	1.12115	93.703
D90031B	132	55.7000	-3.1492	3.7875	0.3100	0.0000	0.0000	0.0002	-0.0001	1.30312	1.29073	109.284
IPMAA01	133	55.7000	-3.1492	3.7875	0.3100	0.0000	0.0000	0.0002	-0.0001	1.30312	1.29073	109.284
D90004	134	57.1248	-3.1932	3.6629	0.2450	0.0000	0.0000	0.0001	-0.0001	1.30375	1.30034	109.509
MQPAA01	135	56.5650	5.0322	3.6989	-0.3669	0.0000	0.0000	0.0001	-0.0001	1.30459	1.31342	109.809
D90009	136	54.6384	4.9423	3.8521	-0.4262	0.0000	0.0000	0.0001	-0.0001	1.30514	1.32157	110.002
MBDAA01H	137	54.6384	4.9423	3.8521	-0.4262	0.0000	0.0000	0.0001	-0.0001	1.30514	1.32157	110.002
D90010	138	52.7180	4.8511	4.0310	-0.4863	0.0000	0.0000	0.0001	-0.0001	1.30572	1.32949	110.198
MBDAA01V	139	52.7180	4.8511	4.0310	-0.4863	0.0000	0.0000	0.0001	-0.0001	1.30572	1.32949	110.198
D90007	140	47.9328	4.6159	4.6010	-0.6414	0.0000	0.0000	0.0000	-0.0001	1.30732	1.34821	110.704
ITVAE01	141	47.9328	4.6159	4.6010	-0.6414	0.0000	0.0000	0.0000	-0.0001	1.30732	1.34821	110.704
D90032	142	44.6787	4.4488	5.1011	-0.7515	0.0000	0.0000	0.0000	-0.0001	1.30856	1.36002	111.063
MXFAA01	143	16.5590	2.5896	15.9497	-1.9466	0.1963	0.0983	-0.0005	-0.0001	1.33202	1.43317	115.064
D90033	144	11.7961	2.1188	20.1952	-2.2503	0.2957	0.0983	-0.0006	-0.0001	1.34355	1.44215	116.077
MXFAA02	145	2.2937	0.2596	42.7340	-3.3551	0.8845	0.1965	-0.0010	-0.0001	1.48294	1.46390	120.076
D90034	146	2.2521	-0.2192	49.9427	-3.6502	1.0867	0.1965	-0.0011	-0.0001	1.55772	1.46744	121.106
IPMAA02	147	2.2521	-0.2192	49.9427	-3.6502	1.0867	0.1965	-0.0011	-0.0001	1.55772	1.46744	121.106
D90004	148	2.3741	-0.3238	51.5972	-3.7147	1.1308	0.1965	-0.0012	-0.0001	1.57320	1.46815	121.331
MQPAA02	149	2.7430	-0.9268	51.1472	5.1887	1.2197	0.3986	-0.0012	0.0001	1.59212	1.46907	121.631
D90012	150	3.5672	-1.1906	47.1906	4.9762	1.3749	0.3986	-0.0011	0.0001	1.61198	1.47033	122.020
MBDAA02V	151	3.5672	-1.1906	47.1906	4.9762	1.3749	0.3986	-0.0011	0.0001	1.61198	1.47033	122.020
D90035	152	17.2745	-3.2722	21.7728	3.2994	2.5993	0.3986	-0.0008	0.0001	1.67596	1.48560	125.092
IPMAA03	153	17.2745	-3.2722	21.7728	3.2994	2.5993	0.3986	-0.0008	0.0001	1.67596	1.48560	125.092
D90004	154	18.7789	-3.4245	20.3179	3.1768	2.6889	0.3986	-0.0008	0.0001	1.67794	1.48730	125.316
MQPAA03	155	19.0744	2.4702	20.2913	-3.0854	2.6825	-0.4406	-0.0008	-0.0002	1.68043	1.48969	125.616
D90009	156	18.1341	2.3983	21.5026	-3.1855	2.5974	-0.4406	-0.0009	-0.0002	1.68208	1.49116	125.810
MBDAA03H	157	18.1341	2.3983	21.5026	-3.1855	2.5974	-0.4406	-0.0009	-0.0002	1.68208	1.49116	125.810
D90036	158	16.1938	2.2426	24.2569	-3.4023	2.4132	-0.4406	-0.0009	-0.0002	1.68596	1.49408	126.228
D90037	159	6.4365	1.1817	47.8550	-4.8795	1.1579	-0.4406	-0.0014	-0.0002	1.73098	1.50740	129.077
IPMAA04	160	6.4365	1.1817	47.8550	-4.8795	1.1579	-0.4406	-0.0014	-0.0002	1.73098	1.50740	129.077
D90004	161	5.9244	1.0981	50.0736	-4.9960	1.0589	-0.4406	-0.0014	-0.0002	1.73677	1.50813	129.302
MQPAA04	162	5.5890	0.0392	50.4641	3.7166	0.9531	-0.2675	-0.0014	0.0001	1.74514	1.50907	129.602
D90012	163	5.5856	-0.0306</									

D90012	184	6.8338	-1.2431	46.2756	4.7957	1.2304	0.4406	0.0001	0.0000	2.13134	1.85701	153.635
MBDAA06V	185	6.8338	-1.2431	46.2756	4.7957	1.2304	0.4406	0.0001	0.0000	2.13134	1.85701	153.635
D90040	186	17.9831	-2.3870	21.7088	3.2029	2.5835	0.4406	0.0002	0.0000	2.17602	1.87245	156.707
IPMAA07	187	17.9831	-2.3870	21.7088	3.2029	2.5835	0.4406	0.0002	0.0000	2.17602	1.87245	156.707
D90004	188	19.0743	-2.4706	20.2959	3.0864	2.6825	0.4406	0.0002	0.0000	2.17795	1.87416	156.931
MQFAA07	189	18.7791	3.4241	20.3224	-3.1772	2.6889	-0.3986	0.0002	0.0001	2.18044	1.87655	157.231
D90009	190	17.4816	3.2932	21.5701	-3.2827	2.6119	-0.3986	0.0002	0.0001	2.18213	1.87801	157.424
MBDAA07H	191	17.4816	3.2932	21.5701	-3.2827	2.6119	-0.3986	0.0002	0.0001	2.18213	1.87801	157.424
D90041	192	3.1948	1.0792	48.8510	-5.0665	1.3093	-0.3986	0.0005	0.0001	2.25415	1.89406	160.692
IPMAA08	193	3.1948	1.0792	48.8510	-5.0665	1.3093	-0.3986	0.0005	0.0001	2.25415	1.89406	160.692
D90004	194	2.7441	0.9270	51.1550	-5.1892	1.2197	-0.3986	0.0005	0.0001	2.26624	1.89478	160.917
MQFAA08	195	2.3752	0.3238	51.6048	3.7155	1.1308	-0.1965	0.0005	0.0000	2.28515	1.89570	161.217
D90012	196	2.1936	0.1428	48.7559	3.6038	1.0543	-0.1965	0.0005	0.0000	2.31242	1.89693	161.606
MBDAA08V	197	2.1936	0.1428	48.7559	3.6038	1.0543	-0.1965	0.0005	0.0000	2.31242	1.89693	161.606
D90038	198	2.2944	-0.2593	42.7396	3.3558	0.8845	-0.1965	0.0005	0.0000	2.37538	1.89995	162.470
MXFAA07	199	11.7913	-2.1178	20.1961	2.2508	0.2957	-0.0983	0.0005	0.0000	2.51478	1.92169	166.472
D90033	200	16.5518	-2.5883	15.9498	1.9469	1.1963	-0.0983	0.0005	0.0000	2.52631	1.93067	167.484
MXFAA08	201	44.6579	-4.4467	5.0997	0.7515	0.0000	0.0000	0.0004	0.0000	2.54978	2.00383	171.485
D90034	202	54.3021	-4.9254	3.8780	0.4358	0.0000	0.0000	0.0004	0.0000	2.55311	2.04100	172.514
IPMAA09	203	54.3021	-4.9254	3.8780	0.4358	0.0000	0.0000	0.0004	0.0000	2.55311	2.04100	172.514
D90004	204	56.5385	-5.0299	3.6977	0.3697	0.0000	0.0000	0.0004	0.0000	2.55375	2.05045	172.739
MQFAA09	205	56.5385	5.0300	3.6979	-0.3676	0.0000	0.0000	0.0004	0.0001	2.55459	2.06349	173.039
D90009	206	54.6127	4.9402	3.8514	-0.4269	0.0000	0.0000	0.0005	0.0001	2.55514	2.07164	173.232
MBDAA09H	207	54.6127	4.9402	3.8514	-0.4269	0.0000	0.0000	0.0005	0.0001	2.55514	2.07164	173.232
D90042	208	47.9102	4.6138	4.6015	-0.6423	0.0000	0.0000	0.0005	0.0001	2.55733	2.09828	173.933
ITVAA09	209	47.9102	4.6138	4.6015	-0.6423	0.0000	0.0000	0.0005	0.0001	2.55733	2.09828	173.933
D90032	210	44.6575	4.4468	5.1022	-0.7525	0.0000	0.0000	0.0005	0.0001	2.55856	2.11009	174.292
MXFAA09	211	16.5510	2.5883	15.9624	-1.9485	0.1963	0.0983	0.0008	0.0001	2.58204	2.18320	178.294
D90033	212	11.7905	2.1177	20.2119	-2.2524	0.2957	0.0983	0.0009	0.0001	2.59357	2.19217	179.306
MXFAA10	213	2.2941	0.2592	42.7707	-3.3580	0.8845	0.1965	0.0012	0.0001	2.73299	2.21390	183.307
D90034	214	2.2532	-0.2195	49.9855	-3.6533	1.0867	0.1965	0.0012	0.0001	2.80774	2.21744	184.336
IPMAA10	215	2.2532	-0.2195	49.9855	-3.6533	1.0867	0.1965	0.0012	0.0001	2.80774	2.21744	184.336
D90004	216	2.3753	-0.3240	51.6415	-3.7178	1.1308	0.1965	0.0012	0.0001	2.82322	2.21814	184.561
MQFAA10	217	2.7443	-0.9272	51.1910	5.1932	1.2197	0.3986	0.0012	-0.0001	2.84213	2.21906	184.861
D90012	218	3.5688	-1.1910	47.2310	4.9805	1.3749	0.3986	0.0012	-0.0001	2.86198	2.22032	185.250
MBDAA10V	219	3.5688	-1.1910	47.2310	4.9805	1.3749	0.3986	0.0012	-0.0001	2.86198	2.22032	185.250
D90035	220	17.2772	-3.2723	21.7908	3.3024	2.5993	0.3986	0.0007	-0.0001	2.92594	2.23559	188.322
D90004	221	18.7816	-3.4245	20.3346	3.1797	2.6889	0.3986	0.0007	-0.0001	2.92792	2.23728	188.546
MQFAA11	222	19.0769	2.4710	20.3078	-3.0876	2.6825	-0.4406	0.0007	0.0001	2.93040	2.23967	188.846
D90009	223	18.1363	2.3990	21.5199	-3.1878	2.5974	-0.4406	0.0007	0.0001	2.93206	2.24114	189.039
MBDAA11H	224	18.1363	2.3990	21.5199	-3.1878	2.5974	-0.4406	0.0007	0.0001	2.93206	2.24114	189.039
D90043	225	5.9232	1.0983	50.1101	-4.9992	1.0589	-0.4406	0.0009	0.0001	2.98675	2.25810	192.532
IPMAA12	226	5.9232	1.0983	50.1101	-4.9992	1.0589	-0.4406	0.0009	0.0001	2.98675	2.25810	192.532
MQFAA12	227	5.5876	0.0396	50.5007	3.7197	0.9531	-0.2675	0.0009	-0.0001	2.99513	2.25904	192.832
D90012	228	5.5839	-0.0302	47.6494	3.6054	0.8490	-0.2675	0.0009	-0.0001	3.00623	2.26030	193.221
MBDAA12V	229	5.5839	-0.0302	47.6494	3.6054	0.8490	-0.2675	0.0009	-0.0001	3.00623	2.26030	193.221
D90038	230	5.7701	-0.1851	41.6356	3.3514	0.6177	-0.2675	0.0008	-0.0001	3.03056	2.26339	194.085
MXFAA11	231	10.1105	-0.9013	19.2483	2.2164	-0.2549	-0.1693	0.0004	-0.0001	3.11817	2.28596	198.087
D90033	232	12.1173	-1.0826	15.0786	1.9056	-0.4262	-0.1693	0.0003	-0.0001	3.13273	2.29542	199.098
MXFAA12	233	23.6287	-1.7987	4.6747	0.6818	-0.9062	-0.0710	-0.0001	-0.0001	3.17067	2.37449	203.100
D90034	234	27.5204	-1.9832	3.6033	0.3594	-0.9793	-0.0710	-0.0002	-0.0001	3.17709	2.41482	204.129
IPMAA13	235	27.5204	-1.9832	3.6033	0.3594	-0.9793	-0.0710	-0.0002	-0.0001	3.17709	2.41482	204.129
D90004	236	28.4205	-2.0234	3.4576	0.2890	-0.9953	-0.0710	-0.0002	-0.0001	3.17837	2.42496	204.354
MQFAA13	237	28.4206	2.0230	3.4575	-0.2886	-0.9953	0.0710	-0.0002	-0.0001	3.18004	2.43889	204.654
D90009	238	27.6458	1.9884	3.5807	-0.3492	-0.9816	0.0710	-0.0003	-0.0001	3.18114	2.44763	204.847
MBDAA13H	239	27.6458	1.9884	3.5807	-0.3492	-0.9816	0.0710	-0.0003	-0.0001	3.18114	2.44763	204.847
D90039	240	23.6298	1.7983	4.6737	-0.6814	-0.9062	0.0710	-0.0004	-0.0001	3.18774	2.48936	205.907
MXFAA13	241	12.1204	1.0825	15.0738	-1.9051	-0.4262	0.1693	-0.0009	-0.0001	3.22567	2.56846	209.909
D90033	242	10.1138	0.9012	19.2422	-2.2157	-0.2549	0.1693	-0.0010	-0.0001	3.24023	2.57792	210.921
MXFAA14	243	5.7727	0.1854	41.6240	-3.3506	0.6177	0.2675	-0.0015	-0.0001	3.32780	2.60050	214.922
D90044	244	5.5895	-0.0393	50.4870	-3.7189	0.9531	0.2675	-0.0017	-0.0001	3.36322	2.60485	216.176
IPMAA14	245	5.5895	-0.0393	50.4870	-3.7189	0.9531	0.2675	-0.0017	-0.0001	3.36322	2.60485	216.176
MQFAA14	246	5.9250	-1.0983	50.0966	4.9976	1.0589	0.4406	-0.0017	0.0002	3.37159	2.60579	216.476
D90012	247	6.8364	-1.2432	46.2846	4.7958	1.2304	0.4406	-0.0016	0.0002	3.38133	2.60708	216.865
MBDAA14V	248	6.8364	-1.2432	46.2846	4.7958	1.2304	0.4406	-0.0016	0.0002	3.38133	2.60708	216.865
D90040	249	17.9859	-2.3869	21.7164	3.2032	2.5836	0.4406	-0.0011	0.0002	3.42600	2.62252	219.937
D90004	250	19.0771	-2.4705	20.3034	3.0867	2.6825	0.4406	-0.0011	0.0002	3.42793	2.62422	220.161
MQFAA15	251	18.7815	3.4250	20.3303	-3.1792	2.6889	-0.3987	-0.0011	-0.0002	3.43041	2.62661	220.461
D90009	252	17.4837	3.2941	21.5788	-3.2848	2.6119	-0.3987	-0.0011	-0.0002	3.43211	2.62808	220.654
MBDAA15H	253	17.4837	3.2941	21.5788	-3.2848	2.6119	-0.3987	-0.0011	-0.0002	3.43211	2.62808	220.654
D90041	254	3.1939	1.0793	48.8778	-5.0700	1.3093	-0.3987	-0.0016	-0.0002	3.50414	2.64412	223.922
IPMAA16	255	3.1939	1.0793	48.8778	-5.0700	1.3093	-0.3987	-0.0016	-0.0002	3.50414	2.64412	223.922
D90004	256	2.7432	0.9270	51.1834	-5.1927	1.2197	-0.3987	-0.0016	-0.0002	3.51623	2.64483	224.146
MQFAA16	257	2.3742	0.3239	51.6339	3.7170	1.1308	-0.1965	-0.0016	0.0001	3.53514	2.64575	224.446
D90012	258	2.1926	0.1428	48.7838	3.6053	1.0543	-0.1965	-0.0016	0.0001	3.56243	2.64699	224.836
MBDAA16V	259	2.1926	0.1428	48.7838	3.6053	1.0543	-0.1965	-0.0016	0.0001	3.56243	2.64699	224.836
D90038	260	2.2935	-0.2595	42.7651	3.3572	0.8845	-0.1965	-0.0015	0.0001	3.62541	2.65000	225.700
MXFAA15	261	11.7954	-2.1188	20.2110	2.2520	0.2957	-0.0983	-0.0010	0.0001	3.76482	2.67173	229.702
D90033	262	16.5583	-2.5896	15.9623	1.9481	0.1963	-0.0983	-0.0008	0.0001	3.77635	2.68070	230.713
MXFAA16	263	44.6785	-4.4489	5.1035	0.7525	0.0000	0.0000	-0.0003	0.0001	3.79981	2.75380	234.715
D90034	264	54.3274	-4.9278	3.8799	0.4367	0.0000	0.0000	-0.0002	0.0001	3.80314	2.79094	235.744
IPMAA17	265	54.3274	-4.9278	3.8799	0.4367	0.0000	0.0000	-0.0002	0.0001	3.80314	2.79094	235.744
D90004	266	56.5650	-5.0324	3.6991	0.3677	0.0000	0.0000	-0.0001	0.0001	3.8		

IPMAA20	288	5.9244	1.0981	50.0736	-4.9960	1.0589	-0.4406	0.0014	0.0002	4.23680	3.00814	255.761
MQFAA20	289	5.5890	0.0392	50.4641	3.7166	0.9531	-0.2675	0.0014	-0.0001	4.24518	3.00908	256.061
D90012	290	5.5856	-0.0306	47.6153	3.6023	0.8490	-0.2675	0.0014	-0.0001	4.25627	3.01034	256.451
MBDAA20V	291	5.5856	-0.0306	47.6153	3.6023	0.8490	-0.2675	0.0014	-0.0001	4.25627	3.01034	256.451
D90038	292	5.7724	-0.1855	41.6066	3.3486	0.6177	-0.2675	0.0013	-0.0001	4.28060	3.01343	257.315
MXFAA19	293	10.1147	-0.9014	19.2381	2.2145	-0.2549	-0.1693	0.0010	-0.0001	4.36816	3.03602	261.317
D90033	294	12.1218	-1.0827	15.0719	1.9041	-0.4262	-0.1693	0.0009	-0.0001	4.38272	3.04548	262.328
MXFAA20	295	23.6331	-1.7986	4.6764	0.6813	-0.9062	-0.0710	0.0005	-0.0001	4.42065	3.12455	266.330
D90034	296	27.5245	-1.9830	3.6058	0.3591	-0.9793	-0.0710	0.0004	-0.0001	4.42707	3.16487	267.359
IPMAA21	297	27.5245	-1.9830	3.6058	0.3591	-0.9793	-0.0710	0.0004	-0.0001	4.42707	3.16487	267.359
D90004	298	28.4245	-2.0233	3.4602	0.2888	-0.9953	-0.0710	0.0004	-0.0001	4.42835	3.17499	267.584
MQFAA21	299	28.4244	2.0237	3.4603	-0.2891	-0.9953	0.0710	0.0004	0.0000	4.43002	3.18891	267.884
D90009	300	27.6493	1.9891	3.5837	-0.3496	-0.9816	0.0710	0.0004	0.0000	4.43111	3.19764	268.077
MBDAA21H	301	27.6493	1.9891	3.5837	-0.3496	-0.9816	0.0710	0.0004	0.0000	4.43111	3.19764	268.077
D90039	302	23.6319	1.7990	4.6775	-0.6817	-0.9062	0.0710	0.0003	0.0000	4.43772	3.23934	269.137
MXFAA21	303	12.1187	1.0828	15.0770	-1.9047	-0.4262	0.1693	0.0002	0.0000	4.47565	3.31839	273.139
D90033	304	10.1115	0.9015	19.2445	-2.2151	-0.2549	0.1693	0.0001	0.0000	4.49022	3.32785	274.150
MXFAA22	305	5.7699	0.1853	41.6188	-3.3494	0.6177	0.2675	0.0000	0.0000	4.57782	3.35043	278.152
D90044	306	5.5871	-0.0395	50.4783	-3.7174	0.9531	0.2675	-0.0001	0.0000	4.61325	3.35478	279.406
IPMAA22	307	5.5871	-0.0395	50.4783	-3.7174	0.9531	0.2675	-0.0001	0.0000	4.61325	3.35478	279.406
MQFAA22	308	5.9226	-1.0976	50.0875	4.9976	1.0589	0.4406	-0.0001	0.0000	4.62163	3.35572	279.706
D90012	309	6.8338	-1.2431	46.2756	4.7957	1.2304	0.4406	-0.0001	0.0000	4.63137	3.35701	280.095
MBDAA22V	310	6.8338	-1.2431	46.2756	4.7957	1.2304	0.4406	-0.0001	0.0000	4.63137	3.35701	280.095
D90040	311	17.9831	-2.3870	21.7088	3.2029	2.5836	0.4406	-0.0002	0.0000	4.67605	3.37246	283.166
D90004	312	19.0743	-2.4706	20.2959	3.0864	2.6825	0.4406	-0.0002	0.0000	4.67798	3.37416	283.391
MQFAA23	313	18.7791	3.4241	20.3224	-3.1772	2.6889	-0.3987	-0.0002	-0.0001	4.68047	3.37655	283.691
D90009	314	17.4816	3.2932	21.5701	-3.2827	2.6119	-0.3987	-0.0002	-0.0001	4.68216	3.37802	283.884
MBDAA23H	315	17.4816	3.2932	21.5701	-3.2827	2.6119	-0.3987	-0.0002	-0.0001	4.68216	3.37802	283.884
D90041	316	3.1948	1.0792	48.8510	-5.0665	1.3093	-0.3987	-0.0005	-0.0001	4.75418	3.39407	287.152
IPMAA24	317	3.1948	1.0792	48.8510	-5.0665	1.3093	-0.3987	-0.0005	-0.0001	4.75418	3.39407	287.152
D90004	318	2.7441	0.9270	51.1550	-5.1892	1.2197	-0.3987	-0.0005	-0.0001	4.76627	3.39478	287.376
MQFAA24	319	2.3752	0.3238	51.6048	3.7155	1.1308	-0.1965	-0.0005	0.0000	4.78518	3.39570	287.676
D90012	320	2.1936	0.1428	48.7559	3.6038	1.0543	-0.1965	-0.0005	0.0000	4.81245	3.39694	288.065
MBDAA24V	321	2.1936	0.1428	48.7559	3.6038	1.0543	-0.1965	-0.0005	0.0000	4.81245	3.39694	288.065
D90038	322	2.2944	-0.2593	42.7396	3.3558	0.8845	-0.1965	-0.0005	0.0000	4.87541	3.39995	288.930
MXFAA23	323	11.7913	-2.1178	20.1961	2.2508	0.2957	-0.0983	-0.0005	0.0000	5.01481	3.42170	292.932
D90033	324	16.5518	-2.5883	15.9498	1.9469	0.1963	-0.0983	-0.0005	0.0000	5.02634	3.43067	293.943
MXFAA24	325	44.6579	-4.4467	5.0997	0.7515	0.0000	0.0000	-0.0004	0.0000	5.04981	3.50384	297.945
D90034	326	54.3021	-4.9254	3.8780	0.4358	0.0000	0.0000	-0.0004	0.0000	5.05314	3.54100	298.974
IPMAA25	327	54.3021	-4.9254	3.8780	0.4358	0.0000	0.0000	-0.0004	0.0000	5.05314	3.54100	298.974
D90004	328	56.5385	-5.0299	3.6977	0.3668	0.0000	0.0000	-0.0004	0.0000	5.05379	3.55045	299.198
MQFAA25	329	56.5385	5.0300	3.6979	-0.3676	0.0000	0.0000	-0.0004	-0.0001	5.05462	3.56349	299.498
D90009	330	54.6127	4.9401	3.8514	-0.4269	0.0000	0.0000	-0.0005	-0.0001	5.05518	3.57164	299.692
MBDAA25H	331	54.6127	4.9401	3.8514	-0.4269	0.0000	0.0000	-0.0005	-0.0001	5.05518	3.57164	299.692
D90042	332	47.9102	4.6138	4.6015	-0.6423	0.0000	0.0000	-0.0005	-0.0001	5.05736	3.59829	300.393
ITVAA25	333	47.9102	4.6138	4.6015	-0.6423	0.0000	0.0000	-0.0005	-0.0001	5.05736	3.59829	300.393
D90032	334	44.6575	4.4468	5.1022	-0.7525	0.0000	0.0000	-0.0005	-0.0001	5.05859	3.61009	300.752
MXFAA25	335	16.5510	2.5883	15.9624	-1.9485	0.1963	0.0983	-0.0008	-0.0001	5.08207	3.68321	304.754
D90033	336	11.7905	2.1177	20.2119	-2.2524	0.2957	0.0983	-0.0009	-0.0001	5.09360	3.69217	305.765
MXFAA26	337	2.2941	0.2592	42.7707	-3.3580	0.8845	0.1965	-0.0012	-0.0001	5.23302	3.71390	309.767
D90034	338	2.2532	-0.2195	49.9855	-3.6533	1.0867	0.1965	-0.0012	-0.0001	5.30777	3.71744	310.796
IPMAA26	339	2.2532	-0.2195	49.9855	-3.6533	1.0867	0.1965	-0.0012	-0.0001	5.30777	3.71744	310.796
D90004	340	2.3753	-0.3240	51.6415	-3.7178	1.1308	0.1965	-0.0012	-0.0001	5.32325	3.71815	311.021
MQFAA26	341	2.7443	-0.9272	51.1910	5.1932	1.2197	0.3986	-0.0012	0.0001	5.34216	3.71907	311.321
D90012	342	3.5688	-1.1910	47.2310	4.9805	1.3749	0.3986	-0.0012	0.0001	5.36201	3.72033	311.710
MBDAA26V	343	3.5688	-1.1910	47.2310	4.9805	1.3749	0.3986	-0.0012	0.0001	5.36201	3.72033	311.710
D90035	344	17.2772	-3.2723	21.7908	3.3024	2.5993	0.3986	-0.0007	0.0001	5.42597	3.73559	314.781
D90004	345	18.7816	-3.4245	20.3346	3.1797	2.6889	0.3986	-0.0007	0.0001	5.42795	3.73729	315.006
MQFAA27	346	19.0769	2.4710	20.3078	-3.0876	2.6825	-0.4406	-0.0007	-0.0001	5.43044	3.73967	315.306
D90009	347	18.1363	2.3990	21.5199	-3.1878	2.5974	-0.4406	-0.0007	-0.0001	5.43209	3.74114	315.499
MBDAA27H	348	18.1363	2.3990	21.5199	-3.1878	2.5974	-0.4406	-0.0007	-0.0001	5.43209	3.74114	315.499
D90043	349	5.9232	1.0983	50.1101	-4.9992	1.0589	-0.4406	-0.0009	-0.0001	5.48678	3.75810	318.991
IPMAA28	350	5.9232	1.0983	50.1101	-4.9992	1.0589	-0.4406	-0.0009	-0.0001	5.48678	3.75810	318.991
MQFAA28	351	5.5876	0.0396	50.5007	3.7197	0.9531	-0.2675	-0.0009	0.0001	5.49516	3.75904	319.291
D90012	352	5.5839	-0.0302	47.6494	3.6054	0.8490	-0.2675	-0.0009	0.0001	5.50626	3.76031	319.680
MBDAA28V	353	5.5839	-0.0302	47.6494	3.6054	0.8490	-0.2675	-0.0009	0.0001	5.50626	3.76031	319.680
D90038	354	5.7701	-0.1851	41.6356	3.3514	0.6177	-0.2675	-0.0008	0.0001	5.53059	3.76339	320.545
MXFAA27	355	10.1105	-0.9013	19.2483	2.2164	-0.2549	-0.1693	-0.0004	0.0001	5.61820	3.78597	324.546
D90033	356	12.1173	-1.0826	15.0786	1.9056	-0.4262	-0.1693	-0.0003	0.0001	5.63276	3.79542	325.558
MXFAA28	357	23.6287	-1.7987	4.6747	0.6818	-0.9062	-0.0710	0.0001	0.0001	5.67070	3.87449	329.560
D90034	358	27.5204	-1.9832	3.6033	0.3594	-0.9793	-0.0710	0.0002	0.0001	5.67712	3.91483	330.589
IPMAA29	359	27.5204	-1.9832	3.6033	0.3594	-0.9793	-0.0710	0.0002	0.0001	5.67712	3.91483	330.589
D90004	360	28.4205	-2.0234	3.4576	0.2890	-0.9953	-0.0710	0.0002	0.0001	5.67840	3.92496	330.813
MQFAA29	361	28.4206	2.0230	3.4575	-0.2886	-0.9953	0.0710	0.0002	0.0001	5.68007	3.93889	331.113
D90009	362	27.6458	1.9884	3.5807	-0.3492	-0.9816	0.0710	0.0003	0.0001	5.68117	3.94763	331.306
MBDAA29H	363	27.6458	1.9884	3.5807	-0.3492	-0.9816	0.0710	0.0003	0.0001	5.68117	3.94763	331.306
D90039	364	23.6298	1.7983	4.6737	-0.6814	-0.9062	0.0710	0.0004	0.0001	5.68777	3.98937	332.367
MXFAA29	365	12.1204	1.0825	15.0738	-1.9051	-0.4262	0.1693	0.0009	0.0001	5.72570	4.06846	336.369
D90033	366	10.1138	0.9012	19.2422	-2.2157	-0.2549	0.1693	0.0010	0.0001	5.74027	4.07792	337.380
MXFAA30	367	5.7727	0.1854	41.6240	-3.3506	0.6177	0.2675	0.0015	0.0001	5.82783	4.10050	341.382
D90044	368	5.5895	-0.0393	50.4870	-3.7189	0.9531	0.2675	0.0017	0.0001	5.86325	4.10485	342.635
IPMAA30	369	5.5895	-0.0393	50.4870	-3.7189	0.9531	0.2675	0.0017	0.0001	5.86325	4.10485	342.635
MQFAA30	370	5.9250	-1.0983	50.0966	4.9976	1.0589	0.4406	-0.0017	-0.0002	5.87162</		

D90018	392	53.9201	-4.9085	3.9165	0.4494	0.0000	0.0000	0.0002	-0.0001	6.30305	4.28926	362.162
MQRAR01	393	49.2333	13.7129	4.2410	-1.1367	0.0000	0.0000	0.0001	-0.0001	6.30455	4.30943	362.662
D90025	394	44.0857	12.9722	4.6996	-1.2410	0.0000	0.0000	0.0001	-0.0001	6.30520	4.31631	362.855
MBCAR01H	395	44.0857	12.9722	4.6996	-1.2410	0.0000	0.0000	0.0001	-0.0001	6.30520	4.31631	362.855
D90019A	396	37.9718	12.0334	5.3388	-1.3731	0.0000	0.0000	0.0001	-0.0001	6.30616	4.32408	363.100
D90047	397	4.8191	4.1838	13.2115	-2.4780	0.0000	0.0000	-0.0001	-0.0001	6.33030	4.36321	365.144
IPMAR02	398	4.8191	4.1838	13.2115	-2.4780	0.0000	0.0000	-0.0001	-0.0001	6.33030	4.36321	365.144
D90018	399	3.1754	3.3456	14.3192	-2.5960	0.0000	0.0000	-0.0001	-0.0001	6.33919	4.36574	365.362
MQAAR02	400	1.6975	1.7288	14.5709	1.7824	0.0000	0.0000	-0.0001	0.0000	6.36012	4.36899	365.662
D90019	401	1.2470	1.3893	14.0618	1.7410	0.0000	0.0000	-0.0001	0.0000	6.37596	4.37060	365.807
MQAAR02A	402	0.6966	0.5004	11.8665	5.3542	0.0000	0.0000	-0.0001	0.0000	6.42894	4.37424	366.107
D90025	403	0.5704	0.1541	9.8938	4.8719	0.0000	0.0000	-0.0001	0.0000	6.47844	4.37708	366.300
MBCAR02H	404	0.5704	0.1541	9.8938	4.8719	0.0000	0.0000	-0.0001	0.0000	6.47844	4.37708	366.300
D90010	405	0.5790	-0.1978	8.0793	4.3817	0.0000	0.0000	-0.0001	0.0000	6.53386	4.38057	366.496
MBCAR02V	406	0.5790	-0.1978	8.0793	4.3817	0.0000	0.0000	-0.0001	0.0000	6.53386	4.38057	366.496
D90024	407	7.4412	-3.5151	0.4228	-0.2390	0.0000	0.0000	-0.0002	0.0000	6.70866	4.63219	368.344
IPMAR03	408	7.4412	-3.5151	0.4228	-0.2390	0.0000	0.0000	-0.0002	0.0000	6.70866	4.63219	368.344
D90018	409	9.0614	-3.9069	0.6463	-0.7848	0.0000	0.0000	-0.0002	0.0000	6.71289	4.70075	368.562
MQAAR03	410	10.7105	-1.4384	1.4294	-1.8967	0.0000	0.0000	-0.0002	-0.0001	6.71767	4.75199	368.862
D90019	411	11.1322	-1.4798	2.0447	-2.3614	0.0000	0.0000	-0.0002	-0.0001	6.71978	4.76546	369.007
MQAAR03A	412	11.1058	1.5655	4.0110	-4.3720	0.0000	0.0000	-0.0002	-0.0001	6.72402	4.78240	369.307
D90025	413	10.5133	1.5056	5.8844	-5.3394	0.0000	0.0000	-0.0002	-0.0001	6.72686	4.78872	369.500
MBCAR03H	414	10.5133	1.5056	5.8844	-5.3394	0.0000	0.0000	-0.0002	-0.0001	6.72686	4.78872	369.500
D90047A	415	6.0167	0.9325	42.6366	-14.5881	0.0000	0.0000	-0.0004	-0.0001	6.76410	4.80729	371.344
IPMAR04	416	6.0167	0.9325	42.6366	-14.5881	0.0000	0.0000	-0.0004	-0.0001	6.76410	4.80729	371.344
D90018	417	5.6244	0.8647	49.2447	-15.6828	0.0000	0.0000	-0.0004	-0.0001	6.77008	4.80805	371.562
MQRAR04	418	6.0616	-1.8034	53.6503	7.5378	0.0000	0.0000	-0.0004	0.0001	6.78424	4.80954	372.062
D90019	419	6.5975	-1.9048	51.4944	7.3820	0.0000	0.0000	-0.0004	0.0001	6.78788	4.80998	372.207
MQAAR04A	420	8.4124	-4.3065	43.3616	18.9969	0.0000	0.0000	-0.0004	0.0002	6.79437	4.81098	372.507
D90020	421	10.1603	-4.7547	36.3431	17.3870	0.0000	0.0000	-0.0003	0.0002	6.79769	4.81175	372.700
MBCAR04H	422	10.1603	-4.7547	36.3431	17.3870	0.0000	0.0000	-0.0003	0.0002	6.79769	4.81175	372.700
D90010	423	12.1144	-5.2103	29.8452	15.7505	0.0000	0.0000	-0.0003	0.0002	6.80051	4.81270	372.896
MBCAR04V	424	12.1144	-5.2103	29.8452	15.7505	0.0000	0.0000	-0.0003	0.0002	6.80051	4.81270	372.896
D90048	425	37.4031	-9.2684	0.2849	1.1739	0.0000	0.0000	0.0001	0.0002	6.81358	4.91490	374.642
ITVAR05	426	37.4031	-9.2684	0.2849	1.1739	0.0000	0.0000	0.0001	0.0002	6.81358	4.91490	374.642
D90016	427	43.5708	-10.0117	0.3880	-1.4959	0.0000	0.0000	0.0001	0.0002	6.81484	5.20882	374.962
MQAAR05	428	47.1377	-1.6525	2.1075	-4.3439	0.0000	0.0000	0.0002	0.0002	6.81588	5.26317	375.262
D90019	429	47.6169	-1.6639	3.5598	-5.7062	0.0000	0.0000	0.0002	0.0002	6.81637	5.27157	375.407
IPMAR05	430	47.6169	-1.6639	3.5598	-5.7062	0.0000	0.0000	0.0002	0.0002	6.81637	5.27157	375.407
MBCAR05H	431	47.6169	-1.6639	3.5598	-5.7062	0.0000	0.0000	0.0002	0.0002	6.81637	5.27157	375.407
MBCAR05V	432	47.6169	-1.6639	3.5598	-5.7062	0.0000	0.0000	0.0002	0.0002	6.81637	5.27157	375.407
QUAD	433	48.6224	-1.6877	7.8320	-8.5345	0.0000	0.0000	0.0003	0.0002	6.81736	5.28062	375.707
D90049	434	50.8053	-1.7381	22.5361	-14.5417	0.0000	0.0000	0.0004	0.0002	6.81940	5.28826	376.344
IPMAR06	435	50.8053	-1.7381	22.5361	-14.5417	0.0000	0.0000	0.0004	0.0002	6.81940	5.28826	376.344
D90018	436	51.5679	-1.7554	29.3343	-16.5998	0.0000	0.0000	0.0005	0.0002	6.82008	5.28961	376.562
MQAAR06	437	50.2106	6.2087	41.8707	-25.8406	0.0000	0.0000	0.0005	0.0003	6.82101	5.29098	376.862
D90025	438	47.8446	6.0568	52.4343	-28.9215	0.0000	0.0000	0.0006	0.0003	6.82164	5.29164	377.055
MBCAR06H	439	47.8446	6.0568	52.4343	-28.9215	0.0000	0.0000	0.0006	0.0003	6.82164	5.29164	377.055
D90019	440	46.1106	5.9430	61.1261	-31.2294	0.0000	0.0000	0.0006	0.0003	6.82213	5.29204	377.200
QUAD	441	42.6157	5.7067	81.3012	-36.0208	0.0000	0.0000	0.0007	0.0003	6.82321	5.29272	377.500
D90050	442	30.9454	4.8347	180.6342	-53.7028	0.0000	0.0000	0.0011	0.0003	6.82806	5.29418	378.607
IPMAR07	443	30.9454	4.8347	180.6342	-53.7028	0.0000	0.0000	0.0011	0.0003	6.82806	5.29418	378.607
MQAAR07	444	30.8126	-4.3789	196.5609	2.2176	0.0000	0.0000	0.0011	0.0000	6.82963	5.29443	378.907
D90019	445	32.0918	-4.4735	195.9206	2.2132	0.0000	0.0000	0.0011	0.0000	6.83036	5.29454	379.051
MBCAR07H	446	32.0918	-4.4735	195.9206	2.2132	0.0000	0.0000	0.0011	0.0000	6.83036	5.29454	379.051
MBCAR07V	447	32.0918	-4.4735	195.9206	2.2132	0.0000	0.0000	0.0011	0.0000	6.83036	5.29454	379.051
QUAD	448	34.8348	-4.6699	194.5954	2.2042	0.0000	0.0000	0.0011	0.0000	6.83179	5.29479	379.351
D90051	449	37.2088	-4.8335	193.4961	2.1967	0.0000	0.0000	0.0011	0.0000	6.83289	5.29499	379.601
DIP	450	47.5313	-5.4883	189.1325	2.1666	0.0000	0.0000	0.0011	0.0000	6.83668	5.29582	380.601
D90014	451	81.8257	-7.2509	177.6856	2.0855	0.0000	0.0000	0.0010	0.0000	6.84355	5.29816	383.293
DIP	452	96.9834	-7.9057	173.5444	2.0554	0.0000	0.0000	0.0009	0.0000	6.84534	5.29907	384.293
D90052A	453	106.3121	-8.2830	171.1855	2.0381	0.0000	0.0000	0.0009	0.0000	6.84624	5.29960	384.869
IPMAR08	454	106.3121	-8.2830	171.1855	2.0381	0.0000	0.0000	0.0009	0.0000	6.84624	5.29960	384.869
D90004	455	110.0667	-8.4301	170.2713	2.0313	0.0000	0.0000	0.0009	0.0000	6.84657	5.29981	385.094
MQAAR08	456	110.5324	6.8993	176.1965	-22.0547	0.0000	0.0000	0.0009	0.0001	6.84700	5.30009	385.394
D90009	457	107.8837	6.8144	184.8194	-22.5890	0.0000	0.0000	0.0010	0.0001	6.84728	5.30026	385.587
MBCAR08H	458	107.8837	6.8144	184.8194	-22.5890	0.0000	0.0000	0.0010	0.0001	6.84728	5.30026	385.587
D90010	459	105.2281	6.7281	193.7847	-23.1315	0.0000	0.0000	0.0010	0.0001	6.84757	5.30042	385.783
MBCAR08V	460	105.2281	6.7281	193.7847	-23.1315	0.0000	0.0000	0.0010	0.0001	6.84757	5.30042	385.783
D90011A	461	84.9911	6.0307	274.1222	-27.5191	0.0000	0.0000	0.0011	0.0001	6.85024	5.30152	387.369
IPMAR09	462	84.9911	6.0307	274.1222	-27.5191	0.0000	0.0000	0.0011	0.0001	6.85024	5.30152	387.369
D90004	463	82.3037	5.9320	286.6262	-28.1406	0.0000	0.0000	0.0012	0.0001	6.85067	5.30165	387.594
MQAAR09	464	81.4554	-3.0733	294.0195	3.7681	0.0000	0.0000	0.0012	0.0000	6.85126	5.30181	387.894
D90009	465	82.6474	-3.0981	292.5659	3.7581	0.0000	0.0000	0.0012	0.0000	6.85163	5.30191	388.087
MBCAR09H	466	82.6474	-3.0981	292.5659	3.7581	0.0000	0.0000	0.0012	0.0000	6.85163	5.30191	388.087
D90053A	467	90.5037	-3.2566	283.3527	3.6942	0.0000	0.0000	0.0011	0.0000	6.85391	5.30260	389.323
MXHR01	468	103.5618	-3.2548	268.7919	3.5909	0.0000	0.0000	0.0724	0.0713	6.85720	5.30375	391.324
D60005	469	112.7050	-3.4084	259.0346	3.5199	0.0000	0.0000	0.1703	0.0713	6.85922	5.30458	392.696
MYRAR03	470	132.9366	-3.5213	239.6498	3.3652	0.0000	0.0000	0.2777	-0.0001	6.86312	5.30649	395.699
D60004	471	134.2573	-3.5401	238.3928	3.3556	0.0000	0.0000	0.2777	-0.0001	6.86335	5.30662	395.886
IPMAR00	472	134.2573	-3.5401	238.3928	3.3556	0.0000	0.0000	0.2777	-0.0001	6.86335	5.30662	395.886
D60003	473	135.3733	-3.5560	237.3387	3.3475	0.0000	0.0000	0.2777	-0.0001	6.86353	5.30672	396.043
MBMAR00H	474	135.3733	-3.5560	237.3387	3.3475							

* TRANSFORMATION MATRIX *

FIRST ORDER MATRIX

```
-0.6083277E+00 -0.8198383E+02 0.1103843E-13 -0.1899234E-13 0.0000000E+00 -0.9828102E-08
-0.5352202E-02 -0.9225389E+00 0.4146632E-15 -0.1029236E-13 0.0000000E+00 -0.1569858E-09
-0.1132908E-13 -0.2901819E-13 -0.2465923E+01 0.8678605E+02 0.0000000E+00 0.6438111E-03
-0.2431862E-15 0.9956055E-14 0.2545198E-01 -0.1301288E+01 0.0000000E+00 0.1283797E-03
-0.1481007E-09 0.3803495E-08 -0.3329607E-03 0.1197935E-01 0.1000000E+01 -0.3714372E-04
-0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.1000000E+01
```

HORIZONTAL MOVEMENT ANALYSIS

```
COMPACTION FACTOR = -0.9204534E-07 GAMMA TR = -0.3296090E+04
COS(MU) = -0.76543329629602E+00 NU = 0.61126234614919E+00
ETA = -0.17062695685087E-08 ETAP = -0.86405590143704E-10
ALPHA = -0.24413650001064E+00 BETA = 0.12739998296045E+03
```

VERTICAL MOVEMENT ANALYSIS

MOVEMENT IS UNSTABLE

```
HALF-TRACE = -0.18836054940235E+01
EIGENVALUE1 = -0.28736940336663E+00
WITH EIGENVECTOR :
Y = -0.99968507920150E+00 YP = -0.25094669192792E-01
EIGENVALUE2 = -0.34798415846804E+01
WITH EIGENVECTOR :
Y = -0.99993176106733E+00 YP = 0.11682174831358E-01
```

1
OPERATION LIST ,

```
HARDWARE
11.0225 6146.14 -80.6 100 -91.5251 -180 0.0 0 1 0;
```

VALUES ARE FOR ENERGY : 0.110E+02 GEV

THE LENGTHS ARE MEASURED IN METERS ,THE ANGLES IN DEGREES

THE SKYZ COORDINATES, AZIMUTH, ELEVATION AND ROLL ANGLES ARE :

#	NAME	S	X	Y	Z	THETA	PHI	PSI
1	MAW2S01	6147.1402600000	-80.6000000000	100.0195839604	-92.5251043330	180.0000000000	2.2438600000	0.0000000000
2	D60000	6149.1418000000	-80.6000000000	100.0979497255	-94.5251096277	180.0000000000	2.2438600000	0.0000000000
3	MXAS02	6150.1433700000	-80.6000000000	100.1532653238	-95.5251076345	180.0000000000	4.0884000000	0.0000000000
4	D60001	6150.3659820000	-80.6000000000	100.1691365583	-95.7471531399	180.0000000000	4.0884000000	0.0000000000
5	MYRS03	6153.3685320000	-80.6000000000	100.2762161527	-98.7471557822	180.0000000000	0.0000000000	0.0000000000
6	D60002	6153.6342970000	-80.6000000000	100.2762161527	-99.0129207822	180.0000000000	0.0000000000	0.0000000000
7	MBMAS00H	6153.6342970100	-80.6000000000	100.2762161527	-99.0129207922	180.0000000000	0.0000000000	0.0000000000
8	D60003	6153.7915570100	-80.6000000000	100.2762161527	-99.1701807922	180.0000000000	0.0000000000	0.0000000000
9	IPMAS01	6153.7915570100	-80.6000000000	100.2762161527	-99.1701807922	180.0000000000	0.0000000000	0.0000000000
10	D60004	6153.9785910100	-80.6000000000	100.2762161527	-99.3572147922	180.0000000000	0.0000000000	0.0000000000
11	MYRAS04	6156.9811410100	-80.6000000000	100.1691499044	-102.3572180699	180.0000000000	-4.0878900000	0.0000000000
12	D60005C	6157.1533210100	-80.6000000000	100.1568757734	-102.5289600220	180.0000000000	-4.0878900000	0.0000000000
13	IPMAS01A	6157.1533210100	-80.6000000000	100.1568757734	-102.5289600220	180.0000000000	-4.0878900000	0.0000000000
14	D60005D	6157.3533210100	-80.6000000000	100.1426184485	-102.7284511964	180.0000000000	-4.0878900000	0.0000000000
15	MQAAS01	6157.3533210100	-80.6000000000	100.1212324613	-103.0276879581	180.0000000000	-4.0878900000	0.0000000000
16	D60005E	6158.3533210100	-80.6000000000	100.0713318243	-103.7259070688	180.0000000000	-4.0878900000	0.0000000000
17	MXHAS05	6160.3537410100	-80.6000000000	99.9999999682	-105.7246303395	180.0000000000	0.0000000000	0.0000000000
18	D60006	6161.5589210100	-80.6000000000	99.9999999682	-106.9298103395	180.0000000000	0.0000000000	0.0000000000
19	IPMAS02	6161.5589210100	-80.6000000000	99.9999999682	-106.9298103395	180.0000000000	0.0000000000	0.0000000000
20	D90004	6161.7835710100	-80.6000000000	99.9999999682	-107.1544603395	180.0000000000	0.0000000000	0.0000000000
21	MQAAS02	6162.0835710100	-80.6000000000	99.9999999682	-107.4544603395	180.0000000000	0.0000000000	0.0000000000
22	D90009	6162.2767210100	-80.6000000000	99.9999999682	-107.6476103395	180.0000000000	0.0000000000	0.0000000000
23	MBCAS02H	6162.2767210200	-80.6000000000	99.9999999682	-107.6476103495	180.0000000000	0.0000000000	0.0000000000
24	D90010	6162.4728110200	-80.6000000000	99.9999999682	-107.8437003495	180.0000000000	0.0000000000	0.0000000000
25	MBCAS02V	6162.4728110300	-80.6000000000	99.9999999682	-107.8437003595	180.0000000000	0.0000000000	0.0000000000
26	D90011A	6164.0589210300	-80.6000000000	99.9999999682	-109.4298103595	180.0000000000	0.0000000000	0.0000000000
27	IPMAS03	6164.0589210300	-80.6000000000	99.9999999682	-109.4298103595	180.0000000000	0.0000000000	0.0000000000
28	D90004	6164.2835710300	-80.6000000000	99.9999999682	-109.6544603595	180.0000000000	0.0000000000	0.0000000000
29	MQAAS03	6164.5835710300	-80.6000000000	99.9999999682	-109.9544603595	180.0000000000	0.0000000000	0.0000000000
30	D90012A	6165.0728110300	-80.6000000000	99.9999999682	-110.4437003595	180.0000000000	0.0000000000	0.0000000000
31	MBCAS03V	6165.0728110400	-80.6000000000	99.9999999682	-110.4437003695	180.0000000000	0.0000000000	0.0000000000
32	MBCAS03H	6165.0728110500	-80.6000000000	99.9999999682	-110.4437003795	180.0000000000	0.0000000000	0.0000000000
33	D90013	6165.3844710500	-80.6000000000	99.9999999682	-110.7553603795	180.0000000000	0.0000000000	0.0000000000
34	D1P	6166.3845410500	-80.6000000000	99.9999999682	-111.7554303795	180.0000000000	0.0000000000	0.0000000000
35	D90014	6169.0765710500	-80.6000000000	99.9999999682	-114.4474603795	180.0000000000	0.0000000000	0.0000000000
36	D1P	6170.0766410500	-80.6000000000	99.9999999682	-115.4475303795	180.0000000000	0.0000000000	0.0000000000
37	D90015	6171.3516010500	-80.6000000000	99.9999999682	-116.7224903795	180.0000000000	0.0000000000	0.0000000000
38	ITVAS04	6171.3516010500	-80.6000000000	99.9999999682	-116.7224903795	180.0000000000	0.0000000000	0.0000000000
39	D90016	6171.6715010500	-80.6000000000	99.9999999682	-117.0423903795	180.0000000000	0.0000000000	0.0000000000
40	IPMAS04	6171.6715010500	-80.6000000000	99.9999999682	-117.0423903795	180.0000000000	0.0000000000	0.0000000000
41	MQAAS04	6171.9715010500	-80.6000000000	99.9999999682	-117.3423903795	180.0000000000	0.0000000000	0.0000000000
42	D90019	6172.1160010500	-80.6000000000	99.9999999682	-117.4868903795	180.0000000000	0.0000000000	0.0000000000
43	MBCAS04V	6172.1160010600	-80.6000000000	99.9999999682	-117.4868903895	180.0000000000	0.0000000000	0.0000000000
44	MBCAS04H	6172.1160010700	-80.6000000000	99.9999999682	-117.4868903995	180.0000000000	0.0000000000	0.0000000000

45	QUAD	6172.4160010700	-80.6000000000	99.9999999682	-117.7868903995	180.0000000000	0.0000000000	0.0000000000
46	D90017	6173.0532010700	-80.6000000000	99.9999999682	-118.4240903995	180.0000000000	0.0000000000	0.0000000000
47	IPMAS05	6173.0532010700	-80.6000000000	99.9999999682	-118.4240903995	180.0000000000	0.0000000000	0.0000000000
48	D90018	6173.2715010700	-80.6000000000	99.9999999682	-118.6423903995	180.0000000000	0.0000000000	0.0000000000
49	MQAAS05	6173.5715010700	-80.6000000000	99.9999999682	-118.9423903995	180.0000000000	0.0000000000	0.0000000000
50	D90020	6173.7644010700	-80.6000000000	99.9999999682	-119.1352903995	180.0000000000	0.0000000000	0.0000000000
51	MBCAS05H	6173.7644010800	-80.6000000000	99.9999999682	-119.1352904095	180.0000000000	0.0000000000	0.0000000000
52	D90010	6173.9604910800	-80.6000000000	99.9999999682	-119.3313804095	180.0000000000	0.0000000000	0.0000000000
53	D90019	6174.1049910800	-80.6000000000	99.9999999682	-119.4758804095	180.0000000000	0.0000000000	0.0000000000
54	QUAD	6174.4049910800	-80.6000000000	99.9999999682	-119.7758804095	180.0000000000	0.0000000000	0.0000000000
55	D90021	6174.8715010800	-80.6000000000	99.9999999682	-120.2423904095	180.0000000000	0.0000000000	0.0000000000
56	IPMAS06	6174.8715010800	-80.6000000000	99.9999999682	-120.2423904095	180.0000000000	0.0000000000	0.0000000000
57	MQAAS06	6175.1715010800	-80.6000000000	99.9999999682	-120.5423904095	180.0000000000	0.0000000000	0.0000000000
58	D90019	6175.3160010800	-80.6000000000	99.9999999682	-120.6868904095	180.0000000000	0.0000000000	0.0000000000
59	MBCAS06V	6175.3160010900	-80.6000000000	99.9999999682	-120.6868904195	180.0000000000	0.0000000000	0.0000000000
60	MBCAS06H	6175.3160011000	-80.6000000000	99.9999999682	-120.6868904295	180.0000000000	0.0000000000	0.0000000000
61	QUAD	6175.6160011000	-80.6000000000	99.9999999682	-120.9868904295	180.0000000000	0.0000000000	0.0000000000
62	D90022	6179.4532011000	-80.6000000000	99.9999999682	-124.8240904295	180.0000000000	0.0000000000	0.0000000000
63	IPMAS07	6179.4532011000	-80.6000000000	99.9999999682	-124.8240904295	180.0000000000	0.0000000000	0.0000000000
64	D90018	6179.6715011000	-80.6000000000	99.9999999682	-125.0423904295	180.0000000000	0.0000000000	0.0000000000
65	MQAAS07	6179.9715011000	-80.6000000000	99.9999999682	-125.3423904295	180.0000000000	0.0000000000	0.0000000000
66	D90023	6180.3604911000	-80.6000000000	99.9999999682	-125.7313804295	180.0000000000	0.0000000000	0.0000000000
67	MBCAS07V	6180.3604911100	-80.6000000000	99.9999999682	-125.7313804395	180.0000000000	0.0000000000	0.0000000000
68	D90019	6180.5049911100	-80.6000000000	99.9999999682	-125.8758804395	180.0000000000	0.0000000000	0.0000000000
69	QUAD	6180.8049911100	-80.6000000000	99.9999999682	-126.1758804395	180.0000000000	0.0000000000	0.0000000000
70	D90024	6182.6532011100	-80.6000000000	99.9999999682	-128.0240904395	180.0000000000	0.0000000000	0.0000000000
71	IPMAS08	6182.6532011100	-80.6000000000	99.9999999682	-128.0240904395	180.0000000000	0.0000000000	0.0000000000
72	D90018	6182.8715011100	-80.6000000000	99.9999999682	-128.2423904395	180.0000000000	0.0000000000	0.0000000000
73	MQAAS08	6183.1715011100	-80.6000000000	99.9999999682	-128.5423904395	180.0000000000	0.0000000000	0.0000000000
74	D90019	6183.3160011100	-80.6000000000	99.9999999682	-128.6868904395	180.0000000000	0.0000000000	0.0000000000
75	MQAAS08A	6183.6160011100	-80.6000000000	99.9999999682	-128.9868904395	180.0000000000	0.0000000000	0.0000000000
76	D90023	6184.0049911100	-80.6000000000	99.9999999682	-129.3758804395	180.0000000000	0.0000000000	0.0000000000
77	MBCAS08H	6184.0049911200	-80.6000000000	99.9999999682	-129.3758804495	180.0000000000	0.0000000000	0.0000000000
78	D90024	6185.8532011200	-80.6000000000	99.9999999682	-131.2240904495	180.0000000000	0.0000000000	0.0000000000
79	IPMAS09	6185.8532011200	-80.6000000000	99.9999999682	-131.2240904495	180.0000000000	0.0000000000	0.0000000000
80	D90018	6186.0715011200	-80.6000000000	99.9999999682	-131.4423904495	180.0000000000	0.0000000000	0.0000000000
81	MQAAS09	6186.3715011200	-80.6000000000	99.9999999682	-131.7423904495	180.0000000000	0.0000000000	0.0000000000
82	D90023	6186.7604911200	-80.6000000000	99.9999999682	-132.1313804495	180.0000000000	0.0000000000	0.0000000000
83	MBCAS09V	6186.7604911300	-80.6000000000	99.9999999682	-132.1313804595	180.0000000000	0.0000000000	0.0000000000
84	MBCAS09H	6186.7604911400	-80.6000000000	99.9999999682	-132.1313804695	180.0000000000	0.0000000000	0.0000000000
85	D90019	6186.9049911400	-80.6000000000	99.9999999682	-132.2758804695	180.0000000000	0.0000000000	0.0000000000
86	QUAD	6187.2049911400	-80.6000000000	99.9999999682	-132.5758804695	180.0000000000	0.0000000000	0.0000000000
87	D90024	6189.0532011400	-80.6000000000	99.9999999682	-134.4240904695	180.0000000000	0.0000000000	0.0000000000
88	IPMAS10	6189.0532011400	-80.6000000000	99.9999999682	-134.4240904695	180.0000000000	0.0000000000	0.0000000000
89	D90018	6189.2715011400	-80.6000000000	99.9999999682	-134.6423904695	180.0000000000	0.0000000000	0.0000000000
90	MQAAS10	6189.5715011400	-80.6000000000	99.9999999682	-134.9423904695	180.0000000000	0.0000000000	0.0000000000
91	D90019	6189.7160011400	-80.6000000000	99.9999999682	-135.0868904695	180.0000000000	0.0000000000	0.0000000000
92	MQAAS10A	6190.0160011400	-80.6000000000	99.9999999682	-135.3868904695	180.0000000000	0.0000000000	0.0000000000
93	D90025	6190.2089011400	-80.6000000000	99.9999999682	-135.5797904695	180.0000000000	0.0000000000	0.0000000000
94	MBCAS10H	6190.2089011500	-80.6000000000	99.9999999682	-135.5797904795	180.0000000000	0.0000000000	0.0000000000
95	D90010	6190.4049911500	-80.6000000000	99.9999999682	-135.7758804795	180.0000000000	0.0000000000	0.0000000000
96	MBCAS10V	6190.4049911600	-80.6000000000	99.9999999682	-135.7758804895	180.0000000000	0.0000000000	0.0000000000
97	MATAS10H	6190.4049911700	-80.6000000000	99.9999999682	-135.7758804995	180.0000000000	0.0000000000	0.0000000000
98	D90026	6205.8190911700	-80.6000000000	99.9999999682	-151.1899804995	180.0000000000	0.0000000000	0.0000000000
99	IPMAE01	6205.8190911700	-80.6000000000	99.9999999682	-151.1899804995	180.0000000000	0.0000000000	0.0000000000
100	D90004	6206.0437411700	-80.6000000000	99.9999999682	-151.4146304995	180.0000000000	0.0000000000	0.0000000000
101	MQCAE01	6206.3437411700	-80.6000000000	99.9999999682	-151.7146304995	180.0000000000	0.0000000000	0.0000000000
102	D90009	6206.5368911700	-80.6000000000	99.9999999682	-151.9077805095	180.0000000000	0.0000000000	0.0000000000
103	MBMAE01H	6206.5368911800	-80.6000000000	99.9999999682	-151.9077805095	180.0000000000	0.0000000000	0.0000000000
104	D90010	6206.7329811800	-80.6000000000	99.9999999682	-152.1038705095	180.0000000000	0.0000000000	0.0000000000
105	MBMAE01V	6206.7329811900	-80.6000000000	99.9999999682	-152.1038705195	180.0000000000	0.0000000000	0.0000000000
106	D90007	6207.2384411900	-80.6000000000	99.9999999682	-152.6093305195	180.0000000000	0.0000000000	0.0000000000
107	IHAAE01	6207.2384411900	-80.6000000000	99.9999999682	-152.6093305195	180.0000000000	0.0000000000	0.0000000000
108	D90027	6207.4687411900	-80.6000000000	99.9999999682	-152.8396305195	180.0000000000	0.0000000000	0.0000000000
109	MBYAE01	6208.4690311900	-80.6000000000	99.9999999682	-153.8399205195	180.0000000000	0.0000000000	0.0000000000
110	D90028	6213.4734511900	-80.6000000000	99.9999999682	-158.8443405195	180.0000000000	0.0000000000	0.0000000000
111	MBZAE02	6215.4740411900	-80.6000000000	99.9999999682	-160.8449305195	180.0000000000	0.0000000000	0.0000000000
112	D90028	6220.4784611900	-80.6000000000	99.9999999682	-165.8493505195	180.0000000000	0.0000000000	0.0000000000
113	MBYAE03	6221.4787511900	-80.6000000000	99.9999999682	-166.8496405195	180.0000000000	0.0000000000	0.0000000000
114	D90029	6222.3790971900	-80.6000000000	99.9999999682	-167.7499865195	180.0000000000	0.0000000000	0.0000000000
115	IPMAE02	6222.3790971900	-80.6000000000	99.9999999682	-167.7499865195	180.0000000000	0.0000000000	0.0000000000
116	D90004	6222.6037471900	-80.6000000000	99.9999999682	-167.9746365195	180.0000000000	0.0000000000	0.0000000000
117	MQCAE02	6222.9037471900	-80.6000000000	99.9999999682	-168.2746365195	180.0000000000	0.0000000000	0.0000000000
118	D90009	6223.0968971900	-80.6000000000	99.9999999682	-168.4677865195	180.0000000000	0.0000000000	0.0000000000
119	MBMAE02H	6223.0968972000	-80.6000000000	99.9999999682	-168.4677865295	180.0000000000	0.0000000000	0.0000000000
120	D90010	6223.2929872000	-80.6000000000	99.9999999682	-168.6638765295	180.0000000000	0.0000000000	0.0000000000
121	MBMAE02V	6223.2929872100	-80.6000000000	99.9999999682	-168.6638765395	180.0000000000	0.0000000000	0.0000000000
122	D90007	6223.7984472100	-80.6000000000	99.9999999682	-169.1693365395	180.0000000000	0.0000000000	0.0000000000
123	ITVAE02	6223.7984472100	-80.6000000000	99.9999999682	-169.1693365395	180.0000000000	0.0000000000	0.0000000000
124	D90030	6238.9291472100	-80.6000000000	99.9999999682	-184.3000365395	180.0000000000	0.0000000000	0.0000000000
125	IPMAE03	6238.9291472100	-80.6000000000	99.9999999682	-184.3000365395	180.0000000000	0.0000000000	0.0000000000
126	D90004	6239.1537972100	-80.6000000000	99.9999999682	-184.5246865395	180.0000000000	0.000000000	

149	MQPAA02	6267.7711472500	-79.4145497458	99.9999999682	-213.0559865320	168.7500200000	0.0000000000	0.0000000000
150	D90012	6268.1603872500	-79.3386129221	99.9999999682	-213.4377474211	168.7500200000	0.0000000000	0.0000000000
151	MBDAA02V	6268.1603872600	-79.3386129202	99.9999999682	-213.4377474309	168.7500200000	0.0000000000	0.0000000000
152	D90035	6271.2317972600	-78.7394116058	99.9999999682	-216.4501413581	168.7500200000	0.0000000000	0.0000000000
153	IPMAA03	6271.2317972600	-78.7394116058	99.9999999682	-216.4501413581	168.7500200000	0.0000000000	0.0000000000
154	D90004	6271.4564472600	-78.6955846418	99.9999999682	-216.6704747867	168.7500200000	0.0000000000	0.0000000000
155	MQPAA03	6271.7564472600	-78.6370576479	99.9999999682	-216.9647103912	168.7500200000	0.0000000000	0.0000000000
156	D90009	6271.9495972600	-78.5993760184	99.9999999682	-217.1541490813	168.7500200000	0.0000000000	0.0000000000
157	MBDAA03H	6271.9495972700	-78.5993760164	99.9999999682	-217.1541490911	168.7500200000	0.0000000000	0.0000000000
158	D90036	6272.3676872700	-78.5178108468	99.9999999682	-217.5642056374	168.7500200000	0.0000000000	0.0000000000
159	D90037	6275.2170872700	-77.9619214588	99.9999999682	-220.3588554095	168.7500200000	0.0000000000	0.0000000000
160	IPMAA04	6275.2170872700	-77.9619214588	99.9999999682	-220.3588554095	168.7500200000	0.0000000000	0.0000000000
161	D90004	6275.4417372700	-77.9180944948	99.9999999682	-220.5791888800	168.7500200000	0.0000000000	0.0000000000
162	MQPAA04	6275.7417372700	-77.8595675009	99.9999999682	-220.8734244426	168.7500200000	0.0000000000	0.0000000000
163	D90012	6276.1309772700	-77.7836306773	99.9999999682	-221.2551853316	168.7500200000	0.0000000000	0.0000000000
164	MBDAA04V	6276.1309772800	-77.7836306753	99.9999999682	-221.2551853414	168.7500200000	0.0000000000	0.0000000000
165	D90038	6276.9954272800	-77.6149851424	99.9999999682	-222.1030252359	168.7500200000	0.0000000000	0.0000000000
166	MXPAA03	6280.9970372800	-76.6430653451	99.9999999682	-225.9831537496	163.1250300000	0.0000000000	0.0000000000
167	D90033	6282.0086072800	-76.3494225810	99.9999999682	-226.9511660387	163.1250300000	0.0000000000	0.0000000000
168	MXPAA04	6286.0102172800	-75.0018643995	99.9999999682	-230.7173461090	157.5000400000	0.0000000000	0.0000000000
169	D90034	6287.0392472800	-74.6080723308	99.9999999682	-231.6680461393	157.5000400000	0.0000000000	0.0000000000
170	IPMAA05	6287.0392472800	-74.6080723308	99.9999999682	-231.6680461393	157.5000400000	0.0000000000	0.0000000000
171	D90004	6287.2638972800	-74.5221026426	99.9999999682	-231.8755957363	157.5000400000	0.0000000000	0.0000000000
172	MQPAA05	6287.5638972800	-74.4072978064	99.9999999682	-232.1527596762	157.5000400000	0.0000000000	0.0000000000
173	D90009	6287.7570472800	-74.3333826260	99.9999999682	-232.3312070595	157.5000400000	0.0000000000	0.0000000000
174	MBDAA05H	6287.7570472900	-74.3333826222	99.9999999682	-232.3312070687	157.5000400000	0.0000000000	0.0000000000
175	D90039A	6288.4585972900	-74.0649115127	99.9999999682	-232.9793549422	157.5000400000	0.0000000000	0.0000000000
176	D90032	6288.8175872900	-73.9275322189	99.9999999682	-233.3110185515	157.5000400000	0.0000000000	0.0000000000
177	MXPAA05	6292.8191972900	-72.2173133290	99.9999999682	-236.9269799345	151.8750500000	0.0000000000	0.0000000000
178	D90033	6293.8307672900	-71.7404633105	99.9999999682	-237.8191054440	151.8750500000	0.0000000000	0.0000000000
179	MXPAA06	6297.8323772900	-69.6840539965	99.9999999682	-241.2500245786	146.2500600000	0.0000000000	0.0000000000
180	D90034	6298.8614072900	-69.1123564556	99.9999999682	-242.1056323524	146.2500600000	0.0000000000	0.0000000000
181	IPMAA06	6298.8614072900	-69.1123564556	99.9999999682	-242.1056323524	146.2500600000	0.0000000000	0.0000000000
182	D90004	6299.0860572900	-68.9875477984	99.9999999682	-242.2924221315	146.2500600000	0.0000000000	0.0000000000
183	MQPAA06	6299.0860572900	-68.8208769897	99.9999999682	-242.5418631897	146.2500600000	0.0000000000	0.0000000000
184	D90012	6299.7752972900	-68.6046271171	99.9999999682	-242.8655046481	146.2500600000	0.0000000000	0.0000000000
185	MBDAA06V	6299.7752973000	-68.6046271655	99.9999999682	-242.8655046564	146.2500600000	0.0000000000	0.0000000000
186	D90040	6302.8466973000	-66.8982514261	99.9999999682	-245.4192822105	146.2500600000	0.0000000000	0.0000000000
187	IPMAA07	6302.8466973000	-66.8982514261	99.9999999682	-245.4192822105	146.2500600000	0.0000000000	0.0000000000
188	D90004	6303.0713473000	-66.7734427689	99.9999999682	-245.6060719896	146.2500600000	0.0000000000	0.0000000000
189	MQPAA07	6303.3713473000	-66.6067719602	99.9999999682	-245.8555130479	146.2500600000	0.0000000000	0.0000000000
190	D90009	6303.5644973000	-66.4994637379	99.9999999682	-246.0161115158	146.2500600000	0.0000000000	0.0000000000
191	MBDAA07H	6303.5644973100	-66.4994637323	99.9999999682	-246.0161115242	146.2500600000	0.0000000000	0.0000000000
192	D90041	6306.8319873100	-64.6841463967	99.9999999682	-248.7329320687	146.2500600000	0.0000000000	0.0000000000
193	IPMAA08	6306.8319873100	-64.6841463967	99.9999999682	-248.7329320687	146.2500600000	0.0000000000	0.0000000000
194	D90004	6307.0566373100	-64.5593377394	99.9999999682	-248.9197218478	146.2500600000	0.0000000000	0.0000000000
195	MQPAA08	6307.3566373100	-64.3926669307	99.9999999682	-249.1691629060	146.2500600000	0.0000000000	0.0000000000
196	D90012	6307.7458773100	-64.1764171122	99.9999999682	-249.4928043643	146.2500600000	0.0000000000	0.0000000000
197	MBDAA08V	6307.7458773200	-64.1764171066	99.9999999682	-249.4928043727	146.2500600000	0.0000000000	0.0000000000
198	D90038	6308.6103273200	-63.6961551714	99.9999999682	-250.2115687819	146.2500600000	0.0000000000	0.0000000000
199	MXPAA07	6312.6119373200	-61.3133597088	99.9999999682	-253.4244041587	140.6250700000	0.0000000000	0.0000000000
200	D90033	6313.6235073200	-60.6716274497	99.9999999682	-254.2063591270	140.6250700000	0.0000000000	0.0000000000
201	MXPAA08	6317.6251173200	-57.9853933798	99.9999999682	-257.1701694949	135.0000800000	0.0000000000	0.0000000000
202	D90034	6318.6541473200	-57.2577603047	99.9999999682	-257.8978046019	135.0000800000	0.0000000000	0.0000000000
203	IPMAA09	6318.6541473200	-57.2577603047	99.9999999682	-257.8978046019	135.0000800000	0.0000000000	0.0000000000
204	D90004	6318.8787973200	-57.0989089881	99.9999999682	-258.0566536321	135.0000800000	0.0000000000	0.0000000000
205	MQPAA09	6319.1787973200	-56.8867772500	99.9999999682	-258.2687886926	135.0000800000	0.0000000000	0.0000000000
206	D90009	6319.3719473200	-56.7501997659	99.9999999682	-258.4053665581	135.0000800000	0.0000000000	0.0000000000
207	MBDAA09H	6319.3719473300	-56.7501997588	99.9999999682	-258.4053665652	135.0000800000	0.0000000000	0.0000000000
208	D90042	6320.0734973300	-56.2541296891	99.9999999682	-258.9014380202	135.0000800000	0.0000000000	0.0000000000
209	ITVAA09	6320.0734973300	-56.2541296891	99.9999999682	-258.9014380202	135.0000800000	0.0000000000	0.0000000000
210	D90032	6320.4324873300	-56.0002857802	99.9999999682	-259.1552826380	135.0000800000	0.0000000000	0.0000000000
211	MXPAA09	6324.4340973300	-53.0364829137	99.9999999682	-261.8415249843	129.3750900000	0.0000000000	0.0000000000
212	D90033	6325.4456673300	-52.2545297374	99.9999999682	-262.4832594271	129.3750900000	0.0000000000	0.0000000000
213	MXPAA10	6329.4472773300	-49.0417010147	99.9999999682	-264.8660638616	123.7501000000	0.0000000000	0.0000000000
214	D90034	6330.4763073300	-48.1860948374	99.9999999682	-265.4377637918	123.7501000000	0.0000000000	0.0000000000
215	IPMAA10	6330.4763073300	-48.1860948374	99.9999999682	-265.4377637918	123.7501000000	0.0000000000	0.0000000000
216	D90004	6330.7009573300	-47.9993054068	99.9999999682	-265.5625729704	123.7501000000	0.0000000000	0.0000000000
217	MQPAA10	6331.0009573300	-47.7498648140	99.9999999682	-265.7292444759	123.7501000000	0.0000000000	0.0000000000
218	D90012	6331.3901973300	-47.4262239595	99.9999999682	-265.9454951983	123.7501000000	0.0000000000	0.0000000000
219	MBDAA10V	6331.3901973400	-47.4262239512	99.9999999682	-265.9454952038	123.7501000000	0.0000000000	0.0000000000
220	D90035	6334.4616073400	-44.8724428475	99.9999999682	-267.6518836304	123.7501000000	0.0000000000	0.0000000000
221	D90004	6334.6862573400	-44.6856534169	99.9999999682	-267.7766928093	123.7501000000	0.0000000000	0.0000000000
222	MQPAA11	6334.9862573400	-44.4362128242	99.9999999682	-267.9433634145	123.7501000000	0.0000000000	0.0000000000
223	D90009	6335.1794073400	-44.2756146558	99.9999999682	-268.0506729853	123.7501000000	0.0000000000	0.0000000000
224	MBDAA11H	6335.1794073500	-44.2756146475	99.9999999682	-268.0506729909	123.7501000000	0.0000000000	0.0000000000
225	D90043	6338.6715473500	-41.3720097418	99.9999999682	-269.9908070922	123.7501000000	0.0000000000	0.0000000000
226	IPMAA12	6338.6715473500	-41.3720097418	99.9999999682	-269.9908070922	123.7501000000	0.0000000000	0.0000000000
227	MQPAA12	6338.9715473500	-41.1225691490	99.9999999682	-270.1574785974	123.7501000000	0.0000000000	0.0000000000
228	D90012	6339.3607873500	-40.7989282945	99.9999999682	-270.3737293198	123.7501000000	0.0000000000	0.0000000000
229	MBDAA12V	6339.3607873600	-40.7989282862	99.9999999682	-270.3737293254	123.7501000000	0.0000000000	0.0000000000
230	D90038	6340.2252373600	-40					

253	MBDAA15H	6366.7943073900	-15.3112118142	99.9999999682	-279.9032727598	101.2501400000	0.0000000000	0.0000000000
254	D90041	6370.0617973900	-12.1065072760	99.9999999682	-280.5407362666	101.2501400000	0.0000000000	0.0000000000
255	IPMAA16	6370.0617973900	-12.1065072760	99.9999999682	-280.5407362666	101.2501400000	0.0000000000	0.0000000000
256	D90004	6370.2864473900	-11.8861739698	99.9999999682	-280.5845638458	101.2501400000	0.0000000000	0.0000000000
257	MQPAAL6	6370.5864473900	-11.5919385287	99.9999999682	-280.6430916614	101.2501400000	0.0000000000	0.0000000000
258	D90012	6370.9756873900	-11.2101778517	99.9999999682	-280.7190295512	101.2501400000	0.0000000000	0.0000000000
259	MBDAA16V	6370.9756874000	-11.2101778419	99.9999999682	-280.7190295511	101.2501400000	0.0000000000	0.0000000000
260	D90038	6371.8401374000	-10.3623384183	99.9999999682	-280.8876774536	101.2501400000	0.0000000000	0.0000000000
261	MXPAAL5	6375.8417474000	-6.4056307263	99.9999999682	-281.4746098302	95.6251500000	0.0000000000	0.0000000000
262	D90033	6376.8533174000	-5.3989319720	99.9999999682	-281.5737636644	95.6251500000	0.0000000000	0.0000000000
263	MXPAAL6	6380.8549274000	-1.4037475101	99.9999999682	-281.7700453253	90.0001600000	0.0000000000	0.0000000000
264	D90034	6381.8839574000	-0.3747175101	99.9999999682	-281.7700481989	90.0001600000	0.0000000000	0.0000000000
265	IPMAA17	6381.8839574000	-0.3747175101	99.9999999682	-281.7700481989	90.0001600000	0.0000000000	0.0000000000
266	D90004	6382.1086074000	-0.1500675101	99.9999999682	-281.7700488263	90.0001600000	0.0000000000	0.0000000000
267	MQPAAL7	6382.4086074000	0.1499324899	99.9999999682	-281.7700496640	90.0001600000	0.0000000000	0.0000000000
268	D90009	6382.6017574000	0.3430824899	99.9999999682	-281.7700502034	90.0001600000	0.0000000000	0.0000000000
269	MBDAA17H	6382.6017574000	0.3430824999	99.9999999682	-281.7700502034	90.0001600000	0.0000000000	0.0000000000
270	D90042	6383.3033074100	1.0446324999	99.9999999682	-281.7700521625	90.0001600000	0.0000000000	0.0000000000
271	ITVAA17	6383.3033074100	1.0446324999	99.9999999682	-281.7700521625	90.0001600000	0.0000000000	0.0000000000
272	D90032	6383.6622974100	1.4036224999	99.9999999682	-281.7700531650	90.0001600000	0.0000000000	0.0000000000
273	MXPAAL7	6387.6639074100	5.3988080579	99.9999999682	-281.5737938174	84.3751700000	0.0000000000	0.0000000000
274	D90033	6388.6754774100	6.4055073660	99.9999999682	-281.4746456057	84.3751700000	0.0000000000	0.0000000000
275	MXPAAL8	6392.6770874100	10.3622183360	99.9999999682	-280.8877353275	78.7501800000	0.0000000000	0.0000000000
276	D90034	6393.7061174100	11.3714764438	99.9999999682	-280.6869847041	78.7501800000	0.0000000000	0.0000000000
277	IPMAA18	6393.7061174100	11.3714764438	99.9999999682	-280.6869847041	78.7501800000	0.0000000000	0.0000000000
278	D90004	6393.9307674100	11.5918099947	99.9999999682	-280.6431583555	78.7501800000	0.0000000000	0.0000000000
279	MQPAAL8	6394.2307674100	11.8860457627	99.9999999682	-280.5846321833	78.7501800000	0.0000000000	0.0000000000
280	D90012	6394.6200074100	12.2678068638	99.9999999682	-280.5086964256	78.7501800000	0.0000000000	0.0000000000
281	MBDAA18V	6394.6200074200	12.2678068736	99.9999999682	-280.5086964237	78.7501800000	0.0000000000	0.0000000000
282	D90035	6397.6914174200	15.2802024742	99.9999999682	-279.9095035215	78.7501800000	0.0000000000	0.0000000000
283	D90004	6397.9160674200	15.5005360251	99.9999999682	-279.8656771728	78.7501800000	0.0000000000	0.0000000000
284	MQPAAL9	6398.2160674200	15.7947717931	99.9999999682	-279.8071510006	78.7501800000	0.0000000000	0.0000000000
285	D90009	6398.4092174200	15.9842105884	99.9999999682	-279.7694699000	78.7501800000	0.0000000000	0.0000000000
286	MBDAA19H	6398.4092174300	15.9842105982	99.9999999682	-279.7694698981	78.7501800000	0.0000000000	0.0000000000
287	D90043	6401.9013574300	19.4092522476	99.9999999682	-279.0881979410	78.7501800000	0.0000000000	0.0000000000
288	IPMAA20	6401.9013574300	19.4092522476	99.9999999682	-279.0881979410	78.7501800000	0.0000000000	0.0000000000
289	MQPAAL20	6402.2013574300	19.7034880156	99.9999999682	-279.0296717688	78.7501800000	0.0000000000	0.0000000000
290	D90012	6402.5905974300	20.0852491167	99.9999999682	-278.9537360112	78.7501800000	0.0000000000	0.0000000000
291	MBDAA20V	6402.5905974400	20.0852491265	99.9999999682	-278.9537360092	78.7501800000	0.0000000000	0.0000000000
292	D90038	6403.4550474400	20.9330894919	99.9999999682	-278.7850928439	78.7501800000	0.0000000000	0.0000000000
293	MXPAAL19	6407.4566574400	24.8132207196	99.9999999682	-277.8131838820	73.1251900000	0.0000000000	0.0000000000
294	D90033	6408.4682274400	25.7812338288	99.9999999682	-277.5195438211	73.1251900000	0.0000000000	0.0000000000
295	MXPAAL20	6412.4698374400	29.5474176622	99.9999999682	-276.1719961568	67.5002000000	0.0000000000	0.0000000000
296	D90034	6413.4988674400	30.4981187921	99.9999999682	-275.7782067430	67.5002000000	0.0000000000	0.0000000000
297	IPMAA21	6413.4988674400	30.4981187921	99.9999999682	-275.7782067430	67.5002000000	0.0000000000	0.0000000000
298	D90004	6413.7235174400	30.7056686292	99.9999999682	-275.6922376344	67.5002000000	0.0000000000	0.0000000000
299	MQPAAL21	6414.0235174400	30.9828328897	99.9999999682	-275.5774335721	67.5002000000	0.0000000000	0.0000000000
300	D90009	6414.2166674400	31.1612804794	99.9999999682	-275.5035188901	67.5002000000	0.0000000000	0.0000000000
301	MBDAA21H	6414.2166674500	31.1612804887	99.9999999682	-275.5035188862	67.5002000000	0.0000000000	0.0000000000
302	D90039	6415.2772074500	32.1410931048	99.9999999682	-275.0976712191	67.5002000000	0.0000000000	0.0000000000
303	MXPAAL21	6419.2788174500	35.7570592636	99.9999999682	-273.3874624269	61.8752100000	0.0000000000	0.0000000000
304	D90033	6420.2903874500	36.6491861047	99.9999999682	-272.9106148996	61.8752100000	0.0000000000	0.0000000000
305	MXPAAL22	6424.2919974500	40.0801109818	99.9999999682	-270.8542151666	56.2502200000	0.0000000000	0.0000000000
306	D90044	6425.5456774500	41.1225104798	99.9999999682	-270.1577118794	56.2502200000	0.0000000000	0.0000000000
307	IPMAA22	6425.5456774500	41.1225104798	99.9999999682	-270.1577118794	56.2502200000	0.0000000000	0.0000000000
308	MQPAAL22	6425.8456774500	41.3719520034	99.9999999682	-269.9910417672	56.2502200000	0.0000000000	0.0000000000
309	D90012	6426.2349174500	41.6955940657	99.9999999682	-269.7747928524	56.2502200000	0.0000000000	0.0000000000
310	MBDAA22V	6426.2349174600	41.6955940740	99.9999999682	-269.7747928469	56.2502200000	0.0000000000	0.0000000000
311	D90040	6429.3063174600	44.2493763932	99.9999999682	-268.0684242390	56.2502200000	0.0000000000	0.0000000000
312	D90004	6429.5309674600	44.4361665208	99.9999999682	-267.9436161034	56.2502200000	0.0000000000	0.0000000000
313	MQPAAL23	6429.8309674600	44.6856080445	99.9999999682	-267.7769459913	56.2502200000	0.0000000000	0.0000000000
314	D90009	6430.0241174600	44.8462068121	99.9999999682	-267.6696382174	56.2502200000	0.0000000000	0.0000000000
315	MBDAA23H	6430.0241174700	44.8462068205	99.9999999682	-267.6696382118	56.2502200000	0.0000000000	0.0000000000
316	D90041	6433.2916074700	47.5630324343	99.9999999682	-265.8543284630	56.2502200000	0.0000000000	0.0000000000
317	IPMAA24	6433.2916074700	47.5630324343	99.9999999682	-265.8543284630	56.2502200000	0.0000000000	0.0000000000
318	D90004	6433.5162574700	47.7498225619	99.9999999682	-265.7295203274	56.2502200000	0.0000000000	0.0000000000
319	MQPAAL24	6433.8162574700	47.9992640856	99.9999999682	-265.5628502153	56.2502200000	0.0000000000	0.0000000000
320	D90012	6434.2054974700	48.3229061478	99.9999999682	-265.3466013005	56.2502200000	0.0000000000	0.0000000000
321	MBDAA24V	6434.2054974800	48.3229061561	99.9999999682	-265.3466012949	56.2502200000	0.0000000000	0.0000000000
322	D90038	6435.0699474800	49.0416719065	99.9999999682	-264.8663413668	56.2502200000	0.0000000000	0.0000000000
323	MXPAAL23	6439.0715574800	52.2545139373	99.9999999682	-262.4835548762	50.6252300000	0.0000000000	0.0000000000
324	D90033	6440.0831274800	53.0364706977	99.9999999682	-261.8418248007	50.6252300000	0.0000000000	0.0000000000
325	MXPAAL24	6444.0847374800	56.0002885669	99.9999999682	-259.1555990074	45.0002400000	0.0000000000	0.0000000000
326	D90034	6445.1137674800	56.7279257058	99.9999999682	-258.4279679643	45.0002400000	0.0000000000	0.0000000000
327	IPMAA25	6445.1137674800	56.7279257058	99.9999999682	-258.4279679643	45.0002400000	0.0000000000	0.0000000000
328	D90004	6445.3384174800	56.8867779096	99.9999999682	-258.2691170913	45.0002400000	0.0000000000	0.0000000000
329	MQPAAL25	6445.6384174800	57.0989108326	99.9999999682	-258.0569859455	45.0002400000	0.0000000000	0.0000000000
330	D90009	6445.8315674800	57.2354890794	99.9999999682	-257.9204088428	45.0002400000	0.0000000000	0.0000000000
331	MBDAA25H	6445.8315674900	57.2354890865	99.9999999682	-257.9204088357	45.0002400000	0.0000000000	0.0000000000
332	D90042	6446.5331174900	57.7315619268	99.9999999682	-257.4243401513	45.0002400000	0.0000000000	0.0000000000
333	ITVAA25	6446.5331174900	57.7315619268	99.9999999682	-257.4243401513	45.0002400000	0.0000000000	0.0000000000
334	D90032	6446.8921074900	57.9854072535	99.9999999682	-257.1704969512	45.0002400000	0.0000000000	0.000000

357	MXPAA28	6475.6996475200	73.9276849027	99.9999999682	-233.3114267312	22.5002800000	0.0000000000	0.0000000000
358	D90034	6476.7286775200	74.3214822811	99.9999999682	-232.3607289004	22.5002800000	0.0000000000	0.0000000000
359	IPMAA29	6476.7286775200	74.3214822811	99.9999999682	-232.3607289004	22.5002800000	0.0000000000	0.0000000000
360	D90004	6476.9533275200	74.4074531284	99.9999999682	-232.1531797835	22.5002800000	0.0000000000	0.0000000000
361	MQPAA29	6477.2533275200	74.5222595126	99.9999999682	-231.8760164848	22.5002800000	0.0000000000	0.0000000000
362	D90009	6477.4464775200	74.5961756896	99.9999999682	-231.6975695143	22.5002800000	0.0000000000	0.0000000000
363	MBDAA29H	6477.4464775200	74.5961756935	99.9999999682	-231.6975695051	22.5002800000	0.0000000000	0.0000000000
364	D90039	6478.5070175300	75.0020315691	99.9999999682	-230.7177602890	22.5002800000	0.0000000000	0.0000000000
365	MXPAA29	6482.5086275300	76.3496107849	99.9999999682	-226.9515877450	16.8752900000	0.0000000000	0.0000000000
366	D90033	6483.5201975300	76.6432589554	99.9999999682	-225.9835770958	16.8752900000	0.0000000000	0.0000000000
367	MXPAA30	6487.5218075300	77.6152004234	99.9999999682	-222.1034540105	11.2503000000	0.0000000000	0.0000000000
368	D90044	6488.7754875300	77.8597876964	99.9999999682	-220.8738644008	11.2503000000	0.0000000000	0.0000000000
369	IPMAA30	6488.7754875300	77.8597876964	99.9999999682	-220.8738644008	11.2503000000	0.0000000000	0.0000000000
370	MQPAA30	6489.0754875300	77.9183163336	99.9999999682	-220.5796291231	11.2503000000	0.0000000000	0.0000000000
371	D90012	6489.4647275300	77.9942552894	99.9999999682	-220.1978686582	11.2503000000	0.0000000000	0.0000000000
372	MBDAA30V	6489.4647275400	77.9942552914	99.9999999682	-220.1978686484	11.2503000000	0.0000000000	0.0000000000
373	D90040	6492.5361275400	78.5934714792	99.9999999682	-217.1854878756	11.2503000000	0.0000000000	0.0000000000
374	D90004	6492.7607775400	78.6372996737	99.9999999682	-216.9651546918	11.2503000000	0.0000000000	0.0000000000
375	MQPAA31	6493.0607775400	78.6958283110	99.9999999682	-216.6709194142	11.2503000000	0.0000000000	0.0000000000
376	D90009	6493.2539275400	78.7335109985	99.9999999682	-216.4814809346	11.2503000000	0.0000000000	0.0000000000
377	MBDAA31H	6493.2539275500	78.7335110005	99.9999999682	-216.4814809247	11.2503000000	0.0000000000	0.0000000000
378	D90041	6496.5214175500	79.3709834566	99.9999999682	-213.2767781666	11.2503000000	0.0000000000	0.0000000000
379	IPMAA32	6496.5214175500	79.3709834566	99.9999999682	-213.2767781666	11.2503000000	0.0000000000	0.0000000000
380	D90004	6496.7460675500	79.4148116511	99.9999999682	-213.0564449829	11.2503000000	0.0000000000	0.0000000000
381	MQPAA32	6497.0460675500	79.4733402883	99.9999999682	-212.7622097052	11.2503000000	0.0000000000	0.0000000000
382	D90012	6497.4353075500	79.5492792441	99.9999999682	-212.3804492403	11.2503000000	0.0000000000	0.0000000000
383	MBDAA32V	6497.4353075600	79.5492792461	99.9999999682	-212.3804492305	11.2503000000	0.0000000000	0.0000000000
384	D90038	6498.2997575600	79.7179295142	99.9999999682	-211.5326102779	11.2503000000	0.0000000000	0.0000000000
385	MXPAA31	6502.3013675600	80.3048729400	99.9999999682	-207.5759042249	5.6253100000	0.0000000000	0.0000000000
386	D90033	6503.3129375600	80.4040295854	99.9999999682	-206.5692057474	5.6253100000	0.0000000000	0.0000000000
387	MXPAA32	6507.3145475600	80.6003224030	99.9999999682	-202.5740218337	0.0003200000	0.0000000000	0.0000000000
388	D90045B	6507.9822665600	80.6003261323	99.9999999682	-201.9063028337	0.0003200000	0.0000000000	0.0000000000
389	ITVAR01	6507.9822665600	80.6003261323	99.9999999682	-201.9063028337	0.0003200000	0.0000000000	0.0000000000
390	D90046	6508.0838665600	80.6003266997	99.9999999682	-201.8047028337	0.0003200000	0.0000000000	0.0000000000
391	IPMAR01	6508.0838665600	80.6003266997	99.9999999682	-201.8047028337	0.0003200000	0.0000000000	0.0000000000
392	D90018	6508.3021665600	80.6003279189	99.9999999682	-201.5864028337	0.0003200000	0.0000000000	0.0000000000
393	MQRAR01	6508.8021665600	80.6003307115	99.9999999682	-201.0864028337	0.0003200000	0.0000000000	0.0000000000
394	D90025	6508.9950665600	80.6003317888	99.9999999682	-200.8935028337	0.0003200000	0.0000000000	0.0000000000
395	MBCAR01H	6508.9950665700	80.6003317888	99.9999999682	-200.8935028237	0.0003200000	0.0000000000	0.0000000000
396	D90019A	6509.2395665700	80.6003331544	99.9999999682	-200.6490028237	0.0003200000	0.0000000000	0.0000000000
397	D90047	6511.2838665700	80.6003445719	99.9999999682	-198.6047028238	0.0003200000	0.0000000000	0.0000000000
398	IPMAR02	6511.2838665700	80.6003445719	99.9999999682	-198.6047028238	0.0003200000	0.0000000000	0.0000000000
399	D90018	6511.5021665700	80.6003457911	99.9999999682	-198.3864028238	0.0003200000	0.0000000000	0.0000000000
400	MQAR02	6511.8021665700	80.6003474666	99.9999999682	-198.0864028238	0.0003200000	0.0000000000	0.0000000000
401	D90019	6511.9466665700	80.6003482737	99.9999999682	-197.9419028238	0.0003200000	0.0000000000	0.0000000000
402	MQAR02A	6512.2466665700	80.6003499492	99.9999999682	-197.6419028238	0.0003200000	0.0000000000	0.0000000000
403	D90025	6512.4395665700	80.6003510265	99.9999999682	-197.4490028238	0.0003200000	0.0000000000	0.0000000000
404	MBCAR02H	6512.4395665800	80.6003510265	99.9999999682	-197.4490028138	0.0003200000	0.0000000000	0.0000000000
405	D90010	6512.6356565800	80.6003521217	99.9999999682	-197.2529128138	0.0003200000	0.0000000000	0.0000000000
406	MBCAR02V	6512.6356565900	80.6003521217	99.9999999682	-197.2529128038	0.0003200000	0.0000000000	0.0000000000
407	D90024	6514.4838665900	80.6003624441	99.9999999682	-195.4047028038	0.0003200000	0.0000000000	0.0000000000
408	IPMAR03	6514.4838665900	80.6003624441	99.9999999682	-195.4047028038	0.0003200000	0.0000000000	0.0000000000
409	D90018	6514.7021665900	80.6003636633	99.9999999682	-195.1864028038	0.0003200000	0.0000000000	0.0000000000
410	MQAR03	6515.0021665900	80.6003653388	99.9999999682	-194.8864028038	0.0003200000	0.0000000000	0.0000000000
411	D90019	6515.1466665900	80.6003661458	99.9999999682	-194.7419028038	0.0003200000	0.0000000000	0.0000000000
412	MQAR03A	6515.4466665900	80.6003678214	99.9999999682	-194.4419028038	0.0003200000	0.0000000000	0.0000000000
413	D90025	6515.6395665900	80.6003688987	99.9999999682	-194.2490028038	0.0003200000	0.0000000000	0.0000000000
414	MBCAR03H	6515.6395666000	80.6003688987	99.9999999682	-194.2490027938	0.0003200000	0.0000000000	0.0000000000
415	D90047A	6517.4838666000	80.6003791992	99.9999999682	-192.4047027939	0.0003200000	0.0000000000	0.0000000000
416	IPMAR04	6517.4838666000	80.6003791992	99.9999999682	-192.4047027939	0.0003200000	0.0000000000	0.0000000000
417	D90018	6517.7021666000	80.6003804184	99.9999999682	-192.1864027939	0.0003200000	0.0000000000	0.0000000000
418	MQRAR04	6518.2021666000	80.6003832110	99.9999999682	-191.6864027939	0.0003200000	0.0000000000	0.0000000000
419	D90019	6518.3466666000	80.6003840180	99.9999999682	-191.5419027939	0.0003200000	0.0000000000	0.0000000000
420	MQAR04A	6518.6466666000	80.6003856935	99.9999999682	-191.2419027939	0.0003200000	0.0000000000	0.0000000000
421	D90020	6518.8395666000	80.6003867709	99.9999999682	-191.0490027939	0.0003200000	0.0000000000	0.0000000000
422	MBCAR04H	6518.8395666100	80.6003867709	99.9999999682	-191.0490027839	0.0003200000	0.0000000000	0.0000000000
423	D90010	6519.0356566100	80.6003878661	99.9999999682	-190.8529127839	0.0003200000	0.0000000000	0.0000000000
424	MBCAR04V	6519.0356566200	80.6003878661	99.9999999682	-190.8529127739	0.0003200000	0.0000000000	0.0000000000
425	D90048	6520.7822666200	80.6003976210	99.9999999682	-189.1063027739	0.0003200000	0.0000000000	0.0000000000
426	ITVAR05	6520.7822666200	80.6003976210	99.9999999682	-189.1063027739	0.0003200000	0.0000000000	0.0000000000
427	D90016	6521.1021666200	80.6003994076	99.9999999682	-188.7864027739	0.0003200000	0.0000000000	0.0000000000
428	MQAR05	6521.4021666200	80.6004010831	99.9999999682	-188.4864027739	0.0003200000	0.0000000000	0.0000000000
429	D90019	6521.5466666200	80.6004018902	99.9999999682	-188.3419027739	0.0003200000	0.0000000000	0.0000000000
430	IPMAR05	6521.5466666200	80.6004018902	99.9999999682	-188.3419027739	0.0003200000	0.0000000000	0.0000000000
431	MBCAR05H	6521.5466666300	80.6004018902	99.9999999682	-188.3419027639	0.0003200000	0.0000000000	0.0000000000
432	MBCAR05V	6521.5466666400	80.6004018902	99.9999999682	-188.3419027539	0.0003200000	0.0000000000	0.0000000000
433	QUAD	6521.8466666400	80.6004035657	99.9999999682	-188.0419027539	0.0003200000	0.0000000000	0.0000000000
434	D90049	6522.4838666400	80.6004071245	99.9999999682	-187.4047027539	0.0003200000	0.0000000000	0.0000000000
435	IPMAR06	6522.4838666400	80.6004071245	99.9999999682	-187.4047027539	0.0003200000	0.0000000000	0.0000000000
436	D90018	6522.7021666400	80.6004083437	99.9999999682	-187.1864027540	0.0003200000	0.0000000000	0.0000000000
437	MQAR06	6523.0021666400	80.6004100192	99.9999999682	-186.8864027540	0.0003200000	0.0000000000	0.0000000000
438	D90025	6523.1950666400	80.6004110966	99.9999999682	-186.6935027540	0.0003200000	0.0000000000	0.0000000000
439	MBCAR06H	6523.1950666500	80.600411					

461	D90011A	6533.5093826900	80.6004687026	99.9999999682	-176.3791867041	0.0003200000	0.0000000000	0.0000000000
462	IPMAR09	6533.5093826900	80.6004687026	99.9999999682	-176.3791867041	0.0003200000	0.0000000000	0.0000000000
463	D90004	6533.7340326900	80.6004699573	99.9999999682	-176.1545367041	0.0003200000	0.0000000000	0.0000000000
464	MQAAR09	6534.0340326900	80.6004716328	99.9999999682	-175.8545367041	0.0003200000	0.0000000000	0.0000000000
465	D90009	6534.2271826900	80.6004727115	99.9999999682	-175.6613867041	0.0003200000	0.0000000000	0.0000000000
466	MBCAR09H	6534.2271827000	80.6004727115	99.9999999682	-175.6613866941	0.0003200000	0.0000000000	0.0000000000
467	D90053A	6535.4634827000	80.6004796163	99.9999999682	-174.4250866942	0.0003200000	0.0000000000	0.0000000000
468	MXHAR01	6537.4639027000	80.6004907793	100.0713318243	-172.4263634234	0.0003200000	4.0878900000	0.0000000000
469	D60005	6538.8360827000	80.6004984235	100.1691499044	-171.0576744246	0.0003200000	4.0878900000	0.0000000000
470	MYRAR03	6541.8386327000	80.6005151787	100.2762161527	-168.0576711469	0.0003200000	0.0000000000	0.0000000000
471	D60004	6542.0256667000	80.6005162233	100.2762161527	-167.8706371469	0.0003200000	0.0000000000	0.0000000000
472	IPMAR00	6542.0256667000	80.6005162233	100.2762161527	-167.8706371469	0.0003200000	0.0000000000	0.0000000000
473	D60003	6542.1829267000	80.6005171016	100.2762161527	-167.7133771469	0.0003200000	0.0000000000	0.0000000000
474	MBMAR00H	6542.1829267100	80.6005171016	100.2762161527	-167.7133771369	0.0003200000	0.0000000000	0.0000000000
475	D60002	6542.4486917100	80.6005185859	100.2762161527	-167.4476121369	0.0003200000	0.0000000000	0.0000000000
476	MYR8R04	6545.4512417100	80.6005353411	100.1691365583	-164.4476094947	0.0003200000	-4.0884000000	0.0000000000
477	D60001	6545.6738537100	80.6005365812	100.1532653238	-164.2255639893	0.0003200000	-4.0884000000	0.0000000000
478	MXXAR05	6546.6754237100	80.6005421663	100.0979497255	-163.2255659824	0.0003200000	-2.2438600000	0.0000000000
479	D60000	6548.6769637100	80.6005533364	100.0195839604	-161.2255606879	0.0003200000	-2.2438600000	0.0000000000
480	MAW2R06	6549.6772237100	80.6005589215	100.0000000000	-160.2255563548	0.0003200000	0.0000000000	0.0000000000

1

STOP

ArcB.outd

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LDIMAT VERSION 2.9 PROD
ODATE AND TIME OF THIS RUN: 12-JUN-2007 13:48:55

XSIF Parser Version 2.1
Version Date: 01-JAN-2004
Run: 12-JUN-2007 13:48:55
XSIF Parser developed by NLC Department,
Stanford Linear Accelerator Center.

UTRANSPORT

TITLE
CONVERTED FROM ../../OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//ARCB.OPT
5
MAQBS01: SBEND, L=1.00017, ANGLE=1.82832, K1=-0, &
E1=0, E2=1.82833, HGAP=0.01905, &
HGAPX=0.01905, &
FINT=0.5, TILT=90
10
D60074: DRIFT, L=1.00051
MASBS02: SBEND, L=1.00113, ANGLE=1.68947, K1=-0, &
E1=-1.82833, E2=3.51772, HGAP=0.023894, &
HGAPX=0.023894, &
FINT=0.5, TILT=90
15
D60075: DRIFT, L=0.883545
MYRBS03: SBEND, L=3.00189, ANGLE=-3.51779, K1=-0, &
E1=-3.51772, E2=-0, HGAP=0.0126656, &
HGAPX=0.0126656, &
FINT=0.5, TILT=90
20
D60076: DRIFT, L=0.60001
MYRBS04: SBEND, L=2.0002, ANGLE=-1.39527, K1=-0, &
E1=-0, E2=-1.39524, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=90
25
D60077: DRIFT, L=0.600224
MYRBS05: SBEND, L=2.00006, ANGLE=-1.59859, K1=-0, &
E1=-0.799295, E2=-0.799295, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=90
30
D60078: DRIFT, L=4.6564
MQABS02: QUADRUPOLE, L=0.3, K1=0, TILT=0
D60079: DRIFT, L=3.30285
MQABS03: QUADRUPOLE, L=0.3, K1=-0.0462162, TILT=0
D60080: DRIFT, L=2.4139
35
MARBS06: SBEND, L=2.00023, ANGLE=2.99385, K1=-0, &
E1=1.4969, E2=1.4969, HGAP=0.0126784, &
HGAPX=0.0126784, &
FINT=0.5, TILT=90
D60081: DRIFT, L=5.45741
40
MQABS05: QUADRUPOLE, L=0.3, K1=-0.205144, TILT=0
D60082: DRIFT, L=4.69103
MQABS06: QUADRUPOLE, L=0.3, K1=0.425641, TILT=0
D60083: DRIFT, L=9.68206
MQABS08: QUADRUPOLE, L=0.3, K1=-0.277323, TILT=0
45
D60084: DRIFT, L=15.241
MQCBEO1: QUADRUPOLE, L=0.3, K1=0.468043, TILT=0
D60085: DRIFT, L=16.2588
MQCBEO2: QUADRUPOLE, L=0.3, K1=-0.391449, TILT=0
D60086: DRIFT, L=16.25
50
MQCBEO3: QUADRUPOLE, L=0.3, K1=0.311601, TILT=0
MQCBEO4: QUADRUPOLE, L=0.3, K1=-0.215751, TILT=0
D60087: DRIFT, L=7.4754
MARBS07: SBEND, L=1.00003, ANGLE=1.50005, K1=-0, &
E1=0.750026, E2=0.750026, HGAP=0.0127, &
55
HGAPX=0.0127, &
FINT=0.5, TILT=90
D60088: DRIFT, L=18.1005
MARBS08: SBEND, L=1.00003, ANGLE=-1.50005, K1=-0, &
E1=-0.750026, E2=-0.750026, HGAP=0.0127, &
60
HGAPX=0.0127, &
FINT=0.5, TILT=90
D60089: DRIFT, L=4.21977

ARCB: LINE=(MAQBS01, &

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65  D60074, MASBS02, D60075, MYRBS03, D60076, &
    MYRBS04, D60077, MYRBS05, D60078, MQABS02, &
    D60079, MQABS03, D60080, MARBS06, D60081, &
    MQABS05, D60082, MQABS06, D60083, MQABS08, &
    D60084, MQCBE01, D60085, MQCBE02, D60086, &
70  MQCBE03, D60086, MQCBE04, D60087, MARBS07, &
    D60088, MARBS08, D60089)
    USE, ARCB
    DIMAT

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1

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*****
* DIMAD PROGRAM : LAST MODIFIED ON May 27, 2005 *
*****

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CONVERTED FROM ../.././OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//ARCB.OPT

1

TOTAL LENGTH OF MACHINE IS: 142.787 METERS

```

IN THIS RUN THERE ARE :
  33 DISTINCT ELEMENTS. ALLOCATED MXELMD : 34
  34 ELEMENTS IN MACHINE. ALLOCATED MXPOS_D : 36
  17 MATRICES DEFINED. ALLOCATED MAXMAT : 18
  157 VALUES IN ELDAT. ALLOCATED MAXDAT : 157
  0 LCAVs. ALLOCATED MX_LCAV : 1

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1

OPERATION LIST ,

MACHINE

```

1 2 1 0 1 1 1
265.842 2.21728 0 0
188.329 -1.77104 0.289293 0.0019471
0,

```

ELEMENT	#	BETAX	ALPHAX	BETAY	ALPHAY	ETAX	ETAPX	ETAY	ETAPY	NUX	NUY	ACC.LEN
\$\$INITIAL\$\$	0	265.8420	2.2173	188.3290	-1.7710	0.0000	0.0000	0.2893	0.0019	0.00000	0.00000	0.000
MAQBS01	1	261.4392	2.4511	191.6995	-1.7930	0.0000	0.0000	0.3070	0.0339	0.00060	0.00084	1.000
D60074	2	256.5612	2.4243	195.3094	-1.8150	0.0000	0.0000	0.3409	0.0339	0.00122	0.00166	2.001
MASBS02	3	252.2232	2.6068	198.4230	-1.8370	0.0000	0.0000	0.3891	0.0634	0.00185	0.00247	3.002
D60075	4	247.6410	2.5794	201.6864	-1.8565	0.0000	0.0000	0.4452	0.0634	0.00241	0.00317	3.885
MYRBS03	5	230.6334	2.7749	213.8072	-1.9225	0.0000	0.0000	0.5442	0.0019	0.00441	0.00547	6.887
D60076	6	227.3170	2.7523	216.1222	-1.9357	0.0000	0.0000	0.5453	0.0019	0.00482	0.00592	7.487
MYRBS04	7	216.4594	2.7402	223.8225	-1.9797	0.0000	0.0000	0.5247	-0.0224	0.00626	0.00736	9.487
D60077	8	213.1840	2.7166	226.2069	-1.9928	0.0000	0.0000	0.5113	-0.0224	0.00670	0.00779	10.088
MYRBS05	9	202.3148	2.7157	234.2654	-2.0368	0.0000	0.0000	0.4385	-0.0503	0.00824	0.00917	12.088
D60078	10	177.9214	2.5230	253.7102	-2.1391	0.0000	0.0000	0.2043	-0.0503	0.01214	0.01221	16.744
MQABS02	11	176.4113	2.5106	254.9957	-2.1457	0.0000	0.0000	0.1892	-0.0503	0.01241	0.01240	17.044
D60079	12	160.2790	2.3738	269.4095	-2.2183	0.0000	0.0000	0.0230	-0.0503	0.01554	0.01440	20.347
MQABS03	13	159.5220	0.1527	269.6197	1.5185	0.0000	0.0000	0.0079	-0.0505	0.01584	0.01458	20.647
D60080	14	158.8221	0.1372	262.3601	1.4889	0.0000	0.0000	-0.1141	-0.0505	0.01825	0.01603	23.061
MARBS06	15	157.8715	0.3373	256.4555	1.4644	0.0000	0.0000	-0.1629	0.0017	0.02026	0.01725	25.061
D60081	16	154.3995	0.2988	240.8369	1.3975	0.0000	0.0000	-0.1534	0.0017	0.02583	0.02075	30.519
MQABS05	17	157.0869	-9.3118	235.5905	15.9827	0.0000	0.0000	-0.1514	0.0111	0.02613	0.02095	30.819
D60082	18	256.7381	-11.9311	109.5939	10.8764	0.0000	0.0000	-0.0992	0.0111	0.02985	0.02559	35.510
MQABS06	19	254.0548	20.7608	107.2515	-2.9690	0.0000	0.0000	-0.0978	-0.0014	0.03004	0.02604	35.810
D60083	20	11.4456	4.2968	173.3229	-3.8551	0.0000	0.0000	-0.1114	-0.0014	0.05877	0.03735	45.492
MQABS08	21	9.2668	3.0263	171.3157	10.4899	0.0000	0.0000	-0.1104	0.0078	0.06343	0.03763	45.792
D60084	22	171.6577	-13.6812	2.1196	0.6114	0.0000	0.0000	0.0091	0.0078	0.50102	0.18516	61.033
MQCBE01	23	172.6051	10.5674	1.8921	0.1577	0.0000	0.0000	0.0117	0.0093	0.50130	0.20926	61.333
D60085	24	1.5352	-0.0457	139.9511	-8.6490	0.0000	0.0000	0.1627	0.0093	0.74355	0.46583	77.591
MQCBE02	25	1.6774	-0.4340	140.1948	7.8464	0.0000	0.0000	0.1626	-0.0099	0.77366	0.46617	77.891
D60086	26	202.8558	-11.9462	3.0323	0.5944	0.0000	0.0000	0.0023	-0.0099	0.94520	0.61064	94.141
MQCBE03	27	204.3175	7.1195	2.7954	0.2028	0.0000	0.0000	-0.0007	-0.0098	0.94543	0.62715	94.441
D60086	28	39.7355	3.0087	94.5529	-5.8494	0.0000	0.0000	-0.1599	-0.0098	0.97430	0.88205	110.691
MQCBE04	29	38.7063	0.4441	96.2265	0.3070	0.0000	0.0000	-0.1612	0.0006	0.97552	0.88255	110.991
D60087	30	33.7956	0.2128	92.2718	0.2220	0.0000	0.0000	-0.1567	0.0006	1.00865	0.89519	118.467
MARBS07	31	33.3784	0.2042	91.8392	0.2106	0.0000	0.0000	-0.1430	0.0268	1.01339	0.89691	119.467
D60088	32	36.2107	-0.3607	87.9396	0.0048	0.0000	0.0000	0.3420	0.0268	1.10054	0.92919	137.567
MARBS08	33	36.9389	-0.3672	87.9414	-0.0066	0.0000	0.0000	0.3558	0.0006	1.10490	0.93100	138.567
D60089	34	40.5852	-0.4969	88.1993	-0.0546	0.0000	0.0000	0.3583	0.0006	1.12228	0.93863	142.787

```

MAXIMUM LATTICE FUNCTIONS :
BETA X = 0.2614391746E+03      BETA Y = 0.2696197168E+03
ETA X = 0.5948865941E-14      ETA Y = 0.5453263977E+00

```

1

OPERATION LIST ,

MATRIX

1 -1,

AFTER :D60089 ELEMENT #: 34

* TRANSFORMATION MATRIX *

FIRST ORDER MATRIX

```
- 0.8830001E+00 0.7218046E+02 -0.2994927E-14 -0.1021713E-13 0.0000000E+00 -0.1982768E-15
- 0.1947045E-01 0.2724106E+01 -0.1251064E-15 -0.1847672E-15 0.0000000E+00 0.9643024E-16
- 0.2489268E-14 0.2645736E-13 0.1089949E+01 -0.4847482E+02 0.0000000E+00 0.1374082E+00
- -0.6872665E-16 -0.1021661E-14 -0.9140099E-02 0.1323975E+01 0.0000000E+00 0.6791591E-03
- 0.1001427E-15 0.7658860E-14 0.1996173E-02 -0.2148472E+00 0.1000000E+01 -0.5873339E-01
- 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.1000000E+01
```

HORIZONTAL MOVEMENT ANALYSIS

COMPACTION FACTOR = -0.4113353E-03 GAMMA TR = -0.4930625E+02

MOVEMENT IS UNSTABLE

HALF-TRACE = 0.18035531756715E+01
EIGENVALUE1 = 0.33044875704653E+01
WITH EIGENVECTOR :
X = -0.99943775094949E+00 XP = -0.33528823078401E-01
EIGENVALUE2 = 0.30261878087779E+00
WITH EIGENVECTOR :
X = -0.99996767514970E+00 XP = 0.80404387760030E-02

VERTICAL MOVEMENT ANALYSIS

MOVEMENT IS UNSTABLE

HALF-TRACE = 0.12069617943652E+01
EIGENVALUE1 = 0.18827996248079E+01
WITH EIGENVECTOR :
Y = 0.99986626849759E+00 YP = -0.16353749438899E-01
EIGENVALUE2 = 0.53112396392264E+00
WITH EIGENVECTOR :
Y = 0.99993355761043E+00 YP = 0.11527374573156E-01

1
OPERATION LIST ,

HARDWARE

12.1125 6800.65 80.6 100 90.5537 0 0.0 0 1 0 ;

VALUES ARE FOR ENERGY : 0.121E+02 GEV

THE LENGTHS ARE MEASURED IN METERS ,THE ANGLES IN DEGREES

THE SKYZ COORDINATES,AZIMUTH,ELEVATION AND ROLL ANGLES ARE :

#	NAME	S	X	Y	Z	THETA	PHI	PSI
1	MAQBS01	6801.6501700000	80.6000000000	100.0159564602	91.5537002696	0.0000000000	1.8283200000	0.0000000000
2	D60074	6802.6506800000	80.6000000000	100.0478775202	92.5537009226	0.0000000000	1.8283200000	0.0000000000
3	MASBS02	6803.6518100000	80.6000000000	100.0945652168	93.5537053817	0.0000000000	3.5177900000	0.0000000000
4	D60075	6804.5353550000	80.6000000000	100.1487781699	94.4355856019	0.0000000000	3.5177900000	0.0000000000
5	MYRBS03	6807.5372450000	80.6000000000	100.2409027721	97.4355899730	0.0000000000	0.0000000000	0.0000000000
6	D60076	6808.1372550000	80.6000000000	100.2409027721	98.0355999730	0.0000000000	0.0000000000	0.0000000000
7	MYRBS04	6810.1374550000	80.6000000000	100.2165494850	100.0356022849	0.0000000000	-1.3952700000	0.0000000000
8	D60077	6810.7376790000	80.6000000000	100.2019342415	100.6356483205	0.0000000000	-1.3952700000	0.0000000000
9	MYRBS05	6812.7377390000	80.6000000000	100.1253483877	102.6341765588	0.0000000000	-2.9938600000	0.0000000000
10	D60078	6817.3941390000	80.6000000000	99.8821495534	107.2842212131	0.0000000000	-2.9938600000	0.0000000000
11	MQABS02	6817.6941390000	80.6000000000	99.8664808715	107.5838117544	0.0000000000	-2.9938600000	0.0000000000
12	D60079	6820.9969890000	80.6000000000	99.6939765184	110.8821538183	0.0000000000	-2.9938600000	0.0000000000
13	MQABS03	6821.2969890000	80.6000000000	99.6783078365	111.1817443595	0.0000000000	-2.9938600000	0.0000000000
14	D60080	6823.7108890000	80.6000000000	99.5522323992	113.5923497180	0.0000000000	-2.9938600000	0.0000000000
15	MARBS06	6825.7111190000	80.6000000000	99.4999853906	115.5916696191	0.0000000000	-0.0000100000	0.0000000000
16	D60081	6831.1685290000	80.6000000000	99.4999844381	121.0490796191	0.0000000000	-0.0000100000	0.0000000000
17	MQABS05	6831.4685290000	80.6000000000	99.4999843857	121.3490796191	0.0000000000	-0.0000100000	0.0000000000
18	D60082	6836.1595590000	80.6000000000	99.4999835670	126.0401096191	0.0000000000	-0.0000100000	0.0000000000
19	MQABS06	6836.4595590000	80.6000000000	99.4999835146	126.3401096191	0.0000000000	-0.0000100000	0.0000000000
20	D60083	6846.1416190000	80.6000000000	99.4999818248	136.0221696191	0.0000000000	-0.0000100000	0.0000000000
21	MQABS08	6846.4416190000	80.6000000000	99.4999817724	136.3221696191	0.0000000000	-0.0000100000	0.0000000000
22	D60084	6861.6826190000	80.6000000000	99.4999791124	151.5631696191	0.0000000000	-0.0000100000	0.0000000000
23	MQCBE01	6861.9826190000	80.6000000000	99.4999790600	151.8631696191	0.0000000000	-0.0000100000	0.0000000000
24	D60085	6878.2414190000	80.6000000000	99.4999762223	168.1219696191	0.0000000000	-0.0000100000	0.0000000000
25	MQCBE02	6878.5414190000	80.6000000000	99.4999761699	168.4219696191	0.0000000000	-0.0000100000	0.0000000000
26	D60086	6894.7914190000	80.6000000000	99.4999733338	184.6719696191	0.0000000000	-0.0000100000	0.0000000000
27	MQCBE03	6895.0914190000	80.6000000000	99.4999732814	184.9719696191	0.0000000000	-0.0000100000	0.0000000000
28	D60086	6911.3414190000	80.6000000000	99.4999704453	201.2219696191	0.0000000000	-0.0000100000	0.0000000000
29	MQCBE04	6911.6414190000	80.6000000000	99.4999703929	201.5219696191	0.0000000000	-0.0000100000	0.0000000000
30	D60087	6919.1168190000	80.6000000000	99.4999690882	208.9973696191	0.0000000000	-0.0000100000	0.0000000000
31	MARBS07	6920.1168490000	80.6000000000	99.5130589644	209.9972853828	0.0000000000	1.5000400000	0.0000000000
32	D60088	6938.2173490000	80.6000000000	99.9868874494	228.0915824627	0.0000000000	1.5000400000	0.0000000000
33	MARBS08	6939.2173790000	80.6000000000	99.9999773256	229.0914982263	0.0000000000	-0.0000100000	0.0000000000
34	D60089	6943.4371490000	80.6000000000	99.9999765891	233.3112682263	0.0000000000	-0.0000100000	0.0000000000

1
STOP

Lin1.outd

LDIMAT VERSION 2.9 PROD
ODATE AND TIME OF THIS RUN: 12-JUN-2007 12:36:12

XSIF Parser Version 2.1
Version Date: 01-JAN-2004
Run: 12-JUN-2007 12:36:12
XSIF Parser developed by NLC Department,
Stanford Linear Accelerator Center.

UTRANSPORT

TITLE

CONVERTED FROM ../../OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//LIN1.OPT

5
D10000: DRIFT, L=0.11946
ITVLL02: MONITOR, L=0
D10001: DRIFT, L=0.11938
MATLLO2H: GKICK, L=1E-08, DXP=0, DYP=0
10
D10002: DRIFT, L=0.21971
MATLLO2V: GKICK, L=1E-08, DXP=0, DYP=0
D10003: DRIFT, L=0.1938
IPMLLO2: MONITOR, L=0
D10004: DRIFT, L=0.17269
15
MQBLLO2: QUADRUPOLE, L=0.15, K1=1.0522, TILT=0
D10005: DRIFT, L=1.1091
R121: LCAVITY, L=0.5, DELTAE=3687.5, E0=0.122489, FREQ=1.49896E+09, PHI0=0
D10006: DRIFT, L=0.25
R122: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
20
D10007: DRIFT, L=0.6606
R123: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R124: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R125: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R126: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
25
R127: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R128: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
D10008: DRIFT, L=0.99265
MATLLO3V: GKICK, L=1E-08, DXP=0, DYP=0
IPMLLO3: MONITOR, L=0
30
D10009: DRIFT, L=0.00265
MQSNL: QUADRUPOLE, L=0.07, K1=0, TILT=0
D10010: DRIFT, L=0.1
MQBLLO3: QUADRUPOLE, L=0.15, K1=-1.20913, TILT=0
R131: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
35
R132: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R133: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R134: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R135: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
40
R136: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R137: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R138: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
D10011: DRIFT, L=0.77294
MATLLO4H: GKICK, L=1E-08, DXP=0, DYP=0
D10012: DRIFT, L=0.41351
45
IPMLLO4: MONITOR, L=0
MQBLLO4: QUADRUPOLE, L=0.15, K1=1.20913, TILT=0
R141: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R142: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R143: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
50
R144: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R145: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R146: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R147: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R148: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
55
MATLLO5V: GKICK, L=1E-08, DXP=0, DYP=0
IPMLLO5: MONITOR, L=0
MQBLLO5: QUADRUPOLE, L=0.15, K1=-1.20913, TILT=0
R151: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R152: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
60
R153: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R154: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R155: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R156: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
65
R157: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R158: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
D10013: DRIFT, L=0.65356
ITVLL06: MONITOR, L=0
MATLLO6H: GKICK, L=1E-08, DXP=0, DYP=0
IPMLLO6: MONITOR, L=0
70
MQBLLO6: QUADRUPOLE, L=0.15, K1=1.20913, TILT=0
R161: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R162: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R163: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R164: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
75
R165: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R166: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R167: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R168: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
MATLLO7V: GKICK, L=1E-08, DXP=0, DYP=0
80
IPMLLO7: MONITOR, L=0
MQBLLO7: QUADRUPOLE, L=0.15, K1=-1.20913, TILT=0
R171: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R172: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R173: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0

85 R174: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R175: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R176: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R177: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R178: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
90 D10014: DRIFT, L=0.772679
MATL108H: GKICK, L=1E-08, DXP=0, DYP=0
D10015: DRIFT, L=0.399473
IPML108: MONITOR, L=0
D10016: DRIFT, L=0.016948
95 MQBL108: QUADRUPOLE, L=0.15, K1=1.20913, TILT=0
R181: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R182: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R183: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R184: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
100 R185: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R186: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R187: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R188: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
MBTL109H: GKICK, L=1E-08, DXP=0, DYP=0
105 D10017: DRIFT, L=0.219712
MATL109V: GKICK, L=1E-08, DXP=0, DYP=0
D10018: DRIFT, L=0.179761
IPML109: MONITOR, L=0
MQBL109: QUADRUPOLE, L=0.15, K1=-1.20913, TILT=0
110 R191: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R192: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R193: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R194: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R195: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
115 R196: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R197: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R198: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
D10019: DRIFT, L=0.655081
ITVLL10: MONITOR, L=0
120 D10020: DRIFT, L=0.117598
MATL110H: GKICK, L=1E-08, DXP=0, DYP=0
IPML110: MONITOR, L=0
MQBL110: QUADRUPOLE, L=0.15, K1=1.20913, TILT=0
125 R1A1: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1A2: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1A3: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1A4: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1A5: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1A6: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
130 R1A7: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1A8: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
MBTL111H: GKICK, L=1E-08, DXP=0, DYP=0
MATL111V: GKICK, L=1E-08, DXP=0, DYP=0
IPML111: MONITOR, L=0
135 MQBL111: QUADRUPOLE, L=0.15, K1=-1.20913, TILT=0
R1B1: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1B2: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1B3: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1B4: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
140 R1B5: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1B6: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1B7: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1B8: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
MATL112H: GKICK, L=1E-08, DXP=0, DYP=0
145 IPML112: MONITOR, L=0
MQBL112: QUADRUPOLE, L=0.15, K1=1.20913, TILT=0
R1C1: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1C2: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1C3: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
150 R1C4: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1C5: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1C6: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1C7: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1C8: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
155 MBTL113H: GKICK, L=1E-08, DXP=0, DYP=0
MATL113V: GKICK, L=1E-08, DXP=0, DYP=0
IPML113: MONITOR, L=0
MQBL113: QUADRUPOLE, L=0.15, K1=-1.20913, TILT=0
R1D1: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
160 R1D2: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1D3: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1D4: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1D5: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1D6: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
165 R1D7: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1D8: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
ITVLL14: MONITOR, L=0
MATL114H: GKICK, L=1E-08, DXP=0, DYP=0
IPML114: MONITOR, L=0
170 MQBL114: QUADRUPOLE, L=0.15, K1=1.20913, TILT=0
R1E1: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1E2: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1E3: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1E4: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
175 R1E5: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1E6: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1E7: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1E8: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
D10021: DRIFT, L=0.992391
180 MATL115V: GKICK, L=1E-08, DXP=0, DYP=0
IPML115: MONITOR, L=0
MQBL115: QUADRUPOLE, L=0.15, K1=-1.20913, TILT=0
R1F1: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1F2: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
185 R1F3: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1F4: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1F5: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0
R1F6: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHIO=0

190 R1F7: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1F8: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
MATL116H: GKICK, L=1E-08, DXP=0, DYP=0
IPMLL16: MONITOR, L=0
MQBLL16: QUADRUPOLE, L=0.15, K1=1.20913, TILT=0
R1G1: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
195 R1G2: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1G3: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1G4: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1G5: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1G6: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
200 R1G7: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1G8: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
MATL117V: GKICK, L=1E-08, DXP=0, DYP=0
IPMLL17: MONITOR, L=0
MQBLL17: QUADRUPOLE, L=0.15, K1=-1.20913, TILT=0
R1H1: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
205 R1H2: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1H3: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1H4: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1H5: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
210 R1H6: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1H7: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1H8: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
ITVLL18: MONITOR, L=0
MATL118H: GKICK, L=1E-08, DXP=0, DYP=0
IPMLL18: MONITOR, L=0
MQBLL18: QUADRUPOLE, L=0.15, K1=1.20913, TILT=0
R1I1: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1I2: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
220 R1I3: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1I4: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1I5: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1I6: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1I7: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1I8: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
225 MATL119V: GKICK, L=1E-08, DXP=0, DYP=0
IPMLL19: MONITOR, L=0
MQBLL19: QUADRUPOLE, L=0.15, K1=-1.20913, TILT=0
R1J1: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1J2: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
230 R1J3: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1J4: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1J5: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1J6: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1J7: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
235 R1J8: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
MATL120H: GKICK, L=1E-08, DXP=0, DYP=0
IPMLL20: MONITOR, L=0
MQBLL20: QUADRUPOLE, L=0.15, K1=1.20913, TILT=0
R1K1: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
240 R1K2: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1K3: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1K4: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1K5: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1K6: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
245 R1K7: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1K8: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
MATL121V: GKICK, L=1E-08, DXP=0, DYP=0
IPMLL21: MONITOR, L=0
MQBLL21: QUADRUPOLE, L=0.15, K1=-1.20913, TILT=0
250 R1L1: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1L2: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1L3: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1L4: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1L5: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
255 R1L6: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1L7: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R1L8: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
ITVLL22: MONITOR, L=0
MATL122H: GKICK, L=1E-08, DXP=0, DYP=0
260 IPMLL22: MONITOR, L=0
D10022: DRIFT, L=0.186948
MQBLL22: QUADRUPOLE, L=0.15, K1=1.20913, TILT=0
D100A05: DRIFT, L=1.0091
265 R1M1: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
D100A06: DRIFT, L=0.05
R1M2: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
D100A07: DRIFT, L=0.4606
R1M3: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R1M4: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
270 R1M5: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R1M6: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R1M7: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R1M8: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
D100A21: DRIFT, L=0.892391
275 MATL123V: GKICK, L=1E-08, DXP=0, DYP=0
D100A18: DRIFT, L=0.179761
IPMLL23: MONITOR, L=0
D100A22: DRIFT, L=0.186948
MQBLL23: QUADRUPOLE, L=0.15, K1=-1.20913, TILT=0
280 R1N1: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R1N2: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R1N3: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R1N4: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R1N5: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
285 R1N6: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R1N7: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R1N8: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
D100A14: DRIFT, L=0.672679
MATL124H: GKICK, L=1E-08, DXP=0, DYP=0
290 D100A15: DRIFT, L=0.399473
IPMLL24: MONITOR, L=0
MQBLL24: QUADRUPOLE, L=0.15, K1=1.20913, TILT=0

295 R101: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R102: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R103: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R104: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R105: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R106: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R107: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R108: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
300 MATL125V: GKICK, L=1E-08, DXF=0, DYP=0
IPML125: MONITOR, L=0
MQBIL125: QUADRUPOLE, L=0.15, K1=-1.20913, TILT=0
R1P1: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R1P2: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R1P3: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R1P4: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R1P5: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R1P6: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R1P7: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R1P8: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
D100A19: DRIFT, L=0.555081
ITVLL26: MONITOR, L=0
D100A20: DRIFT, L=0.117598
315 MATL126H: GKICK, L=1E-08, DXF=0, DYP=0
IPML126: MONITOR, L=0
MQBIL126: QUADRUPOLE, L=0.15, K1=1.20913, TILT=0
R1Q1: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R1Q2: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R1Q3: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R1Q4: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R1Q5: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R1Q6: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R1Q7: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R1Q8: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
320 MATL127H: GKICK, L=1E-08, DXF=0, DYP=0
D100A17: DRIFT, L=0.219712
MATL127V: GKICK, L=1E-08, DXF=0, DYP=0
IPML127: MONITOR, L=0
MQBIL127: QUADRUPOLE, L=0.15, K1=-1.20913, TILT=0
D100A23: DRIFT, L=2.07059
IPML128: MONITOR, L=0
D100A24: DRIFT, L=0.172656
330 MQBIL128: QUADRUPOLE, L=0.15, K1=1.20913, TILT=0
D100A25: DRIFT, L=0.3

340 LIN1: LINE=(D10000, &
ITVLL02, D10001, MATL102H, D10002, MATL102V, &
D10003, IPML102, D10004, MQBIL02, D10005, &
R121, D10006, R122, D10007, R123, &
D10006, R124, D10007, R125, D10006, &
R126, D10007, R127, D10006, R128, &
D10008, MATL103V, D10003, IPML103, D10009, &
MQSNL, D10010, MQBIL03, D10005, R131, &
D10006, R132, D10007, R133, D10006, &
R134, D10007, R135, D10006, R136, &
D10007, R137, D10006, R138, D10011, &
MATL104H, D10012, IPML104, D10009, MQSNL, &
D10010, MQBIL04, D10005, R141, D10006, &
350 R142, D10007, R143, D10006, R144, &
D10007, R145, D10006, R146, D10007, &
R147, D10006, R148, D10008, MATL105V, &
D10003, IPML105, D10009, MQSNL, D10010, &
MQBIL05, D10005, R151, D10006, R152, &
355 D10007, R153, D10006, R154, D10007, &
R155, D10006, R156, D10007, R157, &
D10006, R158, D10013, ITVIL06, D10001, &
MATL106H, D10012, IPML106, D10009, MQSNL, &
D10010, MQBIL06, D10005, R161, D10006, &
360 R162, D10007, R163, D10006, R164, &
D10007, R165, D10006, R166, D10007, &
R167, D10006, R168, D10008, MATL107V, &
D10003, IPML107, D10009, MQSNL, D10010, &
MQBIL07, D10005, R171, D10006, R172, &
365 D10007, R173, D10006, R174, D10007, &
R175, D10006, R176, D10007, R177, &
D10006, R178, D10014, MATL108H, D10015, &
IPML108, D10016, MQSNL, D10010, MQBIL08, &
D10005, R181, D10006, R182, D10007, &
370 R183, D10006, R184, D10007, R185, &
D10006, R186, D10007, R187, D10006, &
R188, D10014, MBTIL09H, D10017, MATL109V, &
D10018, IPML109, D10016, MQSNL, D10010, &
MQBIL09, D10005, R191, D10006, R192, &
375 D10007, R193, D10006, R194, D10007, &
R195, D10006, R196, D10007, R197, &
D10006, R198, D10019, ITVIL10, D10020, &
MATL110H, D10015, IPML110, D10016, MQSNL, &
D10010, MQBIL10, D10005, R1A1, D10006, &
380 R1A2, D10007, R1A3, D10006, R1A4, &
D10007, R1A5, D10006, R1A6, D10007, &
R1A7, D10006, R1A8, D10014, MBTLL11H, &
D10017, MATL111V, D10018, IPML111, D10016, &
MQSNL, D10010, MQBIL11, D10005, R1B1, &
385 D10006, R1B2, D10007, R1B3, D10006, &
R1B4, D10007, R1B5, D10006, R1B6, &
D10007, R1B7, D10006, R1B8, D10014, &
MATL112H, D10015, IPML112, D10016, MQSNL, &
D10010, MQBIL12, D10005, R1C1, D10006, &
390 R1C2, D10007, R1C3, D10006, R1C4, &
D10007, R1C5, D10006, R1C6, D10007, &
R1C7, D10006, R1C8, D10014, MBTLL13H, &
D10017, MATL113V, D10018, IPML113, D10016, &
MQSNL, D10010, MQBIL13, D10005, R1D1, &
395 D10006, R1D2, D10007, R1D3, D10006, &
R1D4, D10007, R1D5, D10006, R1D6, &

400 D10007, R1D7, D10006, R1D8, D10019, &
ITVIL14, D10020, MATL14H, D10015, IPML14, &
D10016, MQSNL, D10010, MQBLL14, D10005, &
R1E1, D10006, R1E2, D10007, R1E3, &
D10006, R1E4, D10007, R1E5, D10006, &
R1E6, D10007, R1E7, D10006, R1E8, &
D10021, MATL15V, D10018, IPML15, D10016, &
MQSNL, D10010, MQBLL15, D10005, R1F1, &
405 D10006, R1F2, D10007, R1F3, D10006, &
R1F4, D10007, R1F5, D10006, R1F6, &
D10007, R1F7, D10006, R1F8, D10014, &
MATL16H, D10015, IPML16, D10016, MQSNL, &
D10010, MQBLL16, D10005, R1G1, D10006, &
410 R1G2, D10007, R1G3, D10006, R1G4, &
D10007, R1G5, D10006, R1G6, D10007, &
R1G7, D10006, R1G8, D10021, MATL17V, &
D10018, IPML17, D10016, MQSNL, D10010, &
MQBLL17, D10005, R1H1, D10006, R1H2, &
415 D10007, R1H3, D10006, R1H4, D10007, &
R1H5, D10006, R1H6, D10007, R1H7, &
D10006, R1H8, D10019, ITVIL18, D10020, &
MATL18H, D10015, IPML18, D10016, MQSNL, &
D10010, MQBLL18, D10005, R1I1, D10006, &
420 R1I2, D10007, R1I3, D10006, R1I4, &
D10007, R1I5, D10006, R1I6, D10007, &
R1I7, D10006, R1I8, D10021, MATL19V, &
D10018, IPML19, D10016, MQSNL, D10010, &
MQBLL19, D10005, R1J1, D10006, R1J2, &
425 D10007, R1J3, D10006, R1J4, D10007, &
R1J5, D10006, R1J6, D10007, R1J7, &
D10006, R1J8, D10014, MATL20H, D10015, &
IPML20, D10016, MQSNL, D10010, MQBLL20, &
D10005, R1K1, D10006, R1K2, D10007, &
430 R1K3, D10006, R1K4, D10007, R1K5, &
D10006, R1K6, D10007, R1K7, D10006, &
R1K8, D10021, MATL21V, D10018, IPML21, &
D10016, MQSNL, D10010, MQBLL21, D10005, &
R1L1, D10006, R1L2, D10007, R1L3, &
435 D10006, R1L4, D10007, R1L5, D10006, &
R1L6, D10007, R1L7, D10006, R1L8, &
D10019, ITVIL22, D10020, MATL22H, D10015, &
IPML22, D10022, MQBLL22, D100A05, R1M1, &
440 D100A06, R1M2, D100A07, R1M3, D100A06, &
R1M4, D100A07, R1M5, D100A06, R1M6, &
D100A07, R1M7, D100A06, R1M8, D100A21, &
MATL23V, D100A18, IPML23, D100A22, MQBLL23, &
D100A05, R1N1, D100A06, R1N2, D100A07, &
445 R1N3, D100A06, R1N4, D100A07, R1N5, &
D100A06, R1N6, D100A07, R1N7, D100A06, &
R1N8, D100A14, MATL24H, D100A15, IPML24, &
D100A22, MQBLL24, D100A05, R1O1, D100A06, &
R1O2, D100A07, R1O3, D100A06, R1O4, &
D100A07, R1O5, D100A06, R1O6, D100A07, &
450 R1O7, D100A06, R1O8, D100A21, MATL25V, &
D100A18, IPML25, D100A22, MQBLL25, D100A05, &
R1P1, D100A06, R1P2, D100A07, R1P3, &
D100A06, R1P4, D100A07, R1P5, D100A06, &
R1P6, D100A07, R1P7, D100A06, R1P8, &
455 D100A19, ITVIL26, D100A20, MATL26H, D100A15, &
IPML26, D100A22, MQBLL26, D100A05, R1Q1, &
D100A06, R1Q2, D100A07, R1Q3, D100A06, &
R1Q4, D100A07, R1Q5, D100A06, R1Q6, &
D100A07, R1Q7, D100A06, R1Q8, D100A14, &
460 MATL27H, D100A17, MATL27V, D100A18, IPML27, &
D100A22, MQBLL27, D100A23, IPML28, D100A24, &
MQBLL28, D100A25)
USE, LIN1
DIMAT

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* DIMAD PROGRAM : LAST MODIFIED ON May 27, 2005 *

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CONVERTED FROM ../../OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//LIN1.OPT

TOTAL LENGTH OF MACHINE IS: 243.668 METERS

LINAC ENERGY SUMMARY: SET UP FOR CHARGE = 0.000E+00

INJECTION ENERGY: 0.12249, GEV, FINAL ENERGY : 1.21249 GEV (IDEAL)
1.21249 GEV (REAL)

IN THIS RUN THERE ARE :
 330 DISTINCT ELEMENTS. ALLOCATED MXELMD : 331
 623 ELEMENTS IN MACHINE. ALLOCATED MXPOS_D : 625
 228 MATRICES DEFINED. ALLOCATED MAXMAT : 229
 3295 VALUES IN ELDAT. ALLOCATED MAXDAT : 3295
 200 LCAVs. ALLOCATED MX_LCAV : 201

1
 OPERATION LIST ,

MACHINE
 1 2 1 0 1 1 1
 38.9012 -2.76987 0 0
 3.453 0.5571 0 0
 0,

ELEMENT	#	BETAX	ALPHAX	BETAY	ALPHAY	ETAX	ETAPX	ETAY	ETAPY	NUX	NUY	ACC.LEN
\$\$INITIAL\$\$	0	38.9012	-2.7699	3.4530	0.5571	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.000
D1000	1	39.5662	-2.7965	3.3253	0.5118	0.0000	0.0000	0.0000	0.0000	0.00048	0.00561	0.119
ITVIL02	2	39.5662	-2.7965	3.3253	0.5118	0.0000	0.0000	0.0000	0.0000	0.00048	0.00561	0.119
D1001	3	40.2370	-2.8231	3.2085	0.4665	0.0000	0.0000	0.0000	0.0000	0.00096	0.01143	0.239
MATLLO2H	4	40.2370	-2.8231	3.2085	0.4665	0.0000	0.0000	0.0000	0.0000	0.00096	0.01143	0.239
D10002	5	41.4883	-2.8721	3.0219	0.3831	0.0000	0.0000	0.0000	0.0000	0.00182	0.02267	0.459
MATLLO2V	6	41.4883	-2.8721	3.0219	0.3831	0.0000	0.0000	0.0000	0.0000	0.00182	0.02267	0.459
D10003	7	42.6099	-2.9153	2.8876	0.3095	0.0000	0.0000	0.0000	0.0000	0.00255	0.03312	0.652
IPMIL02	8	42.6099	-2.9153	2.8876	0.3095	0.0000	0.0000	0.0000	0.0000	0.00255	0.03312	0.652
D10004	9	43.6235	-2.9538	2.7921	0.2440	0.0000	0.0000	0.0000	0.0000	0.00319	0.04280	0.825
MQBLL02	10	43.4760	3.9290	2.7929	-0.2498	0.0000	0.0000	0.0000	0.0000	0.00373	0.05139	0.975
D10005	11	35.2258	3.5097	3.8150	-0.6717	0.0000	0.0000	0.0000	0.0000	0.00824	0.10657	2.084
R121	12	32.8188	3.3234	4.7067	-0.8591	0.0000	0.0000	0.0000	0.0000	0.01059	0.12539	2.584
D10006	13	31.1800	3.2317	5.1593	-0.9514	0.0000	0.0000	0.0000	0.0000	0.01183	0.13347	2.834
R122	14	28.9046	3.0508	6.3676	-1.1334	0.0000	0.0000	0.0000	0.0000	0.01448	0.14737	3.334
D10007	15	25.0295	2.8152	8.0217	-1.3704	0.0000	0.0000	0.0000	0.0000	0.01839	0.16210	3.995
R123	16	22.9746	2.6394	9.7289	-1.5473	0.0000	0.0000	0.0000	0.0000	0.02171	0.17111	4.495
D10006	17	21.6765	2.5527	10.5244	-1.6346	0.0000	0.0000	0.0000	0.0000	0.02349	0.17504	4.745
R124	18	19.7741	2.3817	12.5591	-1.8066	0.0000	0.0000	0.0000	0.0000	0.02733	0.18197	5.245
D10007	19	16.7747	2.1588	15.0942	-2.0309	0.0000	0.0000	0.0000	0.0000	0.03311	0.18961	5.905
R125	20	15.1222	1.9923	17.6426	-2.1984	0.0000	0.0000	0.0000	0.0000	0.03811	0.19448	6.405
D10006	21	14.1466	1.9101	18.7625	-2.2811	0.0000	0.0000	0.0000	0.0000	0.04083	0.19667	6.655
R126	22	12.6640	1.7480	21.6468	-2.4443	0.0000	0.0000	0.0000	0.0000	0.04677	0.20062	7.155
D10007	23	10.4943	1.5364	25.0168	-2.6571	0.0000	0.0000	0.0000	0.0000	0.05590	0.20514	7.816
R127	24	9.2861	1.3783	28.4259	-2.8162	0.0000	0.0000	0.0000	0.0000	0.06396	0.20812	8.316
D10006	25	8.6165	1.3002	29.8537	-2.8948	0.0000	0.0000	0.0000	0.0000	0.06841	0.20949	8.566
R128	26	7.5926	1.1460	33.6050	-3.0499	0.0000	0.0000	0.0000	0.0000	0.07826	0.21200	9.066
D10008	27	5.6176	0.8436	39.9621	-3.3542	0.0000	0.0000	0.0000	0.0000	0.10254	0.21631	10.059
MATLLO3V	28	5.6176	0.8436	39.9621	-3.3542	0.0000	0.0000	0.0000	0.0000	0.10254	0.21631	10.059
D10003	29	5.3021	0.7845	41.2737	-3.4136	0.0000	0.0000	0.0000	0.0000	0.10819	0.21707	10.252
IPMIL03	30	5.3021	0.7845	41.2737	-3.4136	0.0000	0.0000	0.0000	0.0000	0.10819	0.21707	10.252
D10009	31	5.2979	0.7837	41.2918	-3.4145	0.0000	0.0000	0.0000	0.0000	0.10827	0.21708	10.255
MQSNL	32	5.1897	0.7624	41.7713	-3.4359	0.0000	0.0000	0.0000	0.0000	0.11040	0.21735	10.325
D10010	33	5.0403	0.7319	42.4616	-3.4666	0.0000	0.0000	0.0000	0.0000	0.11351	0.21773	10.425
MQBLL03	34	4.9620	-0.2053	42.3449	4.2375	0.0000	0.0000	0.0000	0.0000	0.11831	0.21829	10.575
D10005	35	5.6756	-0.4382	33.4959	3.7410	0.0000	0.0000	0.0000	0.0000	0.15182	0.22298	11.684
R131	36	6.3093	-0.5419	30.6345	3.5198	0.0000	0.0000	0.0000	0.0000	0.16513	0.22546	12.184
D10006	37	6.5931	-0.5932	28.9019	3.4106	0.0000	0.0000	0.0000	0.0000	0.17130	0.22680	12.434
R132	38	7.4007	-0.6945	26.2451	3.1946	0.0000	0.0000	0.0000	0.0000	0.18270	0.22969	12.934
D10007	39	8.4057	-0.8269	22.2107	2.9125	0.0000	0.0000	0.0000	0.0000	0.19605	0.23404	13.595
R133	40	9.4866	-0.9259	19.8854	2.7015	0.0000	0.0000	0.0000	0.0000	0.20496	0.23783	14.095
D10006	41	9.9618	-0.9748	18.5608	2.5972	0.0000	0.0000	0.0000	0.0000	0.20906	0.23990	14.345
R134	42	11.2218	-1.0716	16.4585	2.3908	0.0000	0.0000	0.0000	0.0000	0.21659	0.24445	14.845
D10007	43	12.7211	-1.1981	13.4778	2.1213	0.0000	0.0000	0.0000	0.0000	0.22539	0.25152	15.505
R135	44	14.2616	-1.2928	11.7333	1.9195	0.0000	0.0000	0.0000	0.0000	0.23130	0.25785	16.005
D10006	45	14.9197	-1.3396	10.7986	1.8197	0.0000	0.0000	0.0000	0.0000	0.23403	0.26138	16.255
R136	46	16.6433	-1.4322	9.2928	1.6222	0.0000	0.0000	0.0000	0.0000	0.23908	0.26933	16.755
D10007	47	18.6155	-1.5533	7.3201	1.3640	0.0000	0.0000	0.0000	0.0000	0.24505	0.28209	17.416
R137	48	20.6253	-1.6441	6.1945	1.1707	0.0000	0.0000	0.0000	0.0000	0.24911	0.29392	17.916
D10006	49	21.4586	-1.6889	5.6331	1.0750	0.0000	0.0000	0.0000	0.0000	0.25101	0.30066	18.166
R138	50	23.6548	-1.7778	4.7595	0.8856	0.0000	0.0000	0.0000	0.0000	0.25454	0.31605	18.666
D10011	51	26.5081	-1.9137	3.6144	0.5958	0.0000	0.0000	0.0000	0.0000	0.25945	0.34588	19.439
MATLLO4H	52	26.5081	-1.9137	3.6144	0.5958	0.0000	0.0000	0.0000	0.0000	0.25945	0.34588	19.439
D10012	53	28.1209	-1.9865	3.1857	0.4408	0.0000	0.0000	0.0000	0.0000	0.26186	0.36533	19.852
IPMIL04	54	28.1209	-1.9865	3.1857	0.4408	0.0000	0.0000	0.0000	0.0000	0.26186	0.36533	19.852
D10009	55	28.1314	-1.9869	3.1834	0.4398	0.0000	0.0000	0.0000	0.0000	0.26188	0.36546	19.855
MQSNL	56	28.4105	-1.9992	3.1236	0.4136	0.0000	0.0000	0.0000	0.0000	0.26227	0.36899	19.925
D10010	57	28.8121	-2.0168	3.0447	0.3761	0.0000	0.0000	0.0000	0.0000	0.26283	0.37415	20.025
MQBLL04	58	28.6334	3.1974	3.0219	-0.2228	0.0000	0.0000	0.0000	0.0000	0.26365	0.38206	20.175
D10005	59	22.0231	2.7626	3.9434	-0.6800	0.0000	0.0000	0.0000	0.0000	0.27069	0.43412	21.284
R141	60	19.7780	2.5686	4.7245	-0.7800	0.0000	0.0000	0.0000	0.0000	0.27450	0.45260	21.784
D10006	61	18.5177	2.4726	5.1357	-0.8651	0.0000	0.0000	0.0000	0.0000	0.27658	0.46068	22.034
R142	62	16.4855	2.2824	6.1967	-1.0336	0.0000	0.0000	0.0000	0.0000	0.28113	0.47480	22.534
D10007	63	13.6343	2.0336	7.7080	-1.2541	0.0000	0.0000	0.0000	0.0000	0.28815	0.49004	23.195
R143	64	11.9414	1.8471	9.2082	-1.4194	0.0000	0.0000	0.0000	0.0000	0.29439	0.49949	23.695
D10006	65	11.0409	1.7547	9.9384	-1.5012	0.0000	0.0000	0.0000	0.0000	0.29785	0.50365	23.945
R144	66	9.5733	1.5717	11.7261	-1.6634	0.0000	0.0000	0.0000	0.0000	0.30560	0.51102	24.445
D10007	67	7.6550	1.3323	14.0640	-1.8756	0.0000	0.0000	0.0000	0.0000	0.31789	0.51922	25.105
R145	68	6.5447	1.1527	16.3017	-2.0347	0.0000	0.0000	0.0000	0.0000	0.32914	0.52447	25.605
D10006	69	5.9906	1.0637	17.3387	-2.1136	0.0000	0.0000	0.0000	0.0000	0.33550	0.52684	25.855
R146	70	5.1166	0.8875	19.8703	-2.2698	0.0000	0.0000	0.0000	0.0000	0.34989	0.53113	26.355
D10007	71	4.0965	0.6567	23.0042	-2.4743	0.0000	0.0000	0.0000	0.0000	0.37294	0.53604	27.016
R147	72	3.5955	0.4835	25.9948	-2.6277	0.0000	0.0000	0.0000	0.0000	0.39373	0.53930	27.516
D10006	73	3.3752	0.3977	27.3277	-2.7037	0.0000	0.0000	0.0000	0.0000	0.40516	0.54079	27.766
R148	74	3.1197	0.2277	30.6175	-2.8545	0.0000	0.0000	0.0000	0.0000	0.42978	0.54354	28.266
D10008	75	2.9999	-0.1070	36.5788	-3.1510	0.0000	0.0000	0.0000	0.0000	0.48238	0.54826	29.259
MATLLO5V	76	2.9999	-0.1070	36.5788	-3.1510	0.0000	0.0000	0.0000	0.0000	0.48238	0.54826	29.259
D10003	77	3.0541	-0.1723	37.8114	-3.2089	0.0000	0.0000	0.0000	0.0000	0.49257	0.54909	29.452
IPMIL05	78	3.0541	-0.1723	37.8114	-3.2089	0.0000	0.0000	0.0000	0.0000	0.49257	0.54909	29.452
D10009	79	3.0550	-0.1732	37.8284	-3.2097	0.0000	0.0000	0.0000	0.0000	0.49271	0.54911	29.455
MQSNL	80	3.0809	-0.1968	38.2792	-3.2306	0.0000	0.0000	0.0000	0.0000	0.49634	0.54940	29.525
D10010	81	3.1236	-0.2306	38.9283	-3.2605	0.0000	0.0000	0.0000	0.0000			

D10005	83	5.8792	-1.4652	30.8972	3.3626	0.0000	0.0000	0.0000	0.0000	0.54955	0.55552	30.884
R151	84	7.5937	-1.7305	28.1450	3.1651	0.0000	0.0000	0.0000	0.0000	0.56147	0.55822	31.384
D10006	85	8.4918	-1.8621	26.5869	3.0672	0.0000	0.0000	0.0000	0.0000	0.56643	0.55967	31.634
R152	86	10.6472	-2.1229	24.0481	2.8732	0.0000	0.0000	0.0000	0.0000	0.57480	0.56282	32.134
D10007	87	13.6776	-2.4645	20.4200	2.6189	0.0000	0.0000	0.0000	0.0000	0.58352	0.56756	32.795
R153	88	16.5230	-2.7209	18.2201	2.4281	0.0000	0.0000	0.0000	0.0000	0.58881	0.57169	33.295
D10006	89	17.9153	-2.8481	17.0297	2.3335	0.0000	0.0000	0.0000	0.0000	0.59112	0.57395	33.545
R154	90	21.2115	-3.1003	15.0543	2.1458	0.0000	0.0000	0.0000	0.0000	0.59521	0.57892	34.045
D10007	91	25.5260	-3.4308	12.3817	1.8999	0.0000	0.0000	0.0000	0.0000	0.59973	0.58662	34.705
R155	92	29.5266	-3.6789	10.7618	1.7152	0.0000	0.0000	0.0000	0.0000	0.60263	0.59352	35.205
D10006	93	31.3968	-3.8020	9.9270	1.6237	0.0000	0.0000	0.0000	0.0000	0.60393	0.59737	35.455
R156	94	35.8569	-4.0461	8.5415	1.4420	0.0000	0.0000	0.0000	0.0000	0.60630	0.60601	35.955
D10007	95	41.4140	-4.3661	6.7937	1.2038	0.0000	0.0000	0.0000	0.0000	0.60903	0.61983	36.616
R157	96	46.5907	-4.6065	5.7780	1.0250	0.0000	0.0000	0.0000	0.0000	0.61084	0.63255	37.116
D10006	97	48.9238	-4.7257	5.2877	0.9363	0.0000	0.0000	0.0000	0.0000	0.61168	0.63975	37.366
R158	98	54.5672	-4.9623	4.5152	0.7602	0.0000	0.0000	0.0000	0.0000	0.61322	0.65606	37.866
D10013	99	61.2541	-5.2692	3.6709	0.5318	0.0000	0.0000	0.0000	0.0000	0.61502	0.68172	38.520
ITV1L06	100	61.2541	-5.2692	3.6709	0.5318	0.0000	0.0000	0.0000	0.0000	0.61502	0.68172	38.520
D10001	101	62.5189	-5.3253	3.5489	0.4901	0.0000	0.0000	0.0000	0.0000	0.61532	0.68699	38.639
MAT1L06H	102	62.5189	-5.3253	3.5489	0.4901	0.0000	0.0000	0.0000	0.0000	0.61532	0.68699	38.639
D10012	103	67.0033	-5.5195	3.2033	0.3456	0.0000	0.0000	0.0000	0.0000	0.61634	0.70656	39.052
IPM1L06	104	67.0033	-5.5195	3.2033	0.3456	0.0000	0.0000	0.0000	0.0000	0.61634	0.70656	39.052
D10009	105	67.0326	-5.5207	3.2015	0.3446	0.0000	0.0000	0.0000	0.0000	0.61635	0.70669	39.055
MQSNL	106	67.8078	-5.5536	3.1550	0.3202	0.0000	0.0000	0.0000	0.0000	0.61651	0.71020	39.125
D10010	107	68.9232	-5.6006	3.0944	0.2852	0.0000	0.0000	0.0000	0.0000	0.61674	0.71529	39.225
MQB1L06	108	68.7254	6.9073	3.1002	-0.3239	0.0000	0.0000	0.0000	0.0000	0.61709	0.72304	39.375
D10005	109	54.2754	6.1212	4.2572	-0.7192	0.0000	0.0000	0.0000	0.0000	0.61998	0.77241	40.484
R161	110	49.1169	5.7695	5.1363	-0.8961	0.0000	0.0000	0.0000	0.0000	0.62152	0.78946	40.984
D10006	111	46.2758	5.5950	5.6063	-0.9839	0.0000	0.0000	0.0000	0.0000	0.62236	0.79688	41.234
R162	112	41.5121	5.2486	6.7700	-1.1581	0.0000	0.0000	0.0000	0.0000	0.62417	0.80981	41.734
D10007	113	34.8778	4.7943	8.4509	-1.3865	0.0000	0.0000	0.0000	0.0000	0.62694	0.82373	42.395
R163	114	30.7388	4.4530	10.0598	-1.5581	0.0000	0.0000	0.0000	0.0000	0.62937	0.83236	42.895
D10006	115	28.5547	4.2836	10.8602	-1.6433	0.0000	0.0000	0.0000	0.0000	0.63071	0.83617	43.145
R164	116	24.8279	3.9472	12.7599	-1.8124	0.0000	0.0000	0.0000	0.0000	0.63370	0.84293	43.645
D10007	117	19.9042	3.5061	15.3010	-2.0343	0.0000	0.0000	0.0000	0.0000	0.63843	0.85046	44.305
R165	118	16.8275	3.1745	17.6550	-2.2010	0.0000	0.0000	0.0000	0.0000	0.64278	0.85530	44.805
D10006	119	15.2814	3.0100	18.7762	-2.2838	0.0000	0.0000	0.0000	0.0000	0.64526	0.85749	45.055
R166	120	12.6323	2.6831	21.4262	-2.4481	0.0000	0.0000	0.0000	0.0000	0.65099	0.86146	45.555
D10007	121	9.3706	2.2544	24.8031	-2.6537	0.0000	0.0000	0.0000	0.0000	0.66066	0.86602	46.216
R167	122	7.3943	1.9321	27.9153	-2.8258	0.0000	0.0000	0.0000	0.0000	0.67022	0.86904	46.716
D10006	123	6.4683	1.7721	29.3483	-2.9062	0.0000	0.0000	0.0000	0.0000	0.67598	0.87043	46.966
R168	124	4.9336	1.4542	32.7614	-3.0661	0.0000	0.0000	0.0000	0.0000	0.69008	0.87300	47.466
D10008	125	2.6686	0.8275	39.1613	-3.3812	0.0000	0.0000	0.0000	0.0000	0.73418	0.87741	48.459
MAT1L07V	126	2.6686	0.8275	39.1613	-3.3812	0.0000	0.0000	0.0000	0.0000	0.73418	0.87741	48.459
D10003	127	2.3716	0.7052	40.4838	-3.4427	0.0000	0.0000	0.0000	0.0000	0.74646	0.87818	48.652
IPM1L07	128	2.3716	0.7052	40.4838	-3.4427	0.0000	0.0000	0.0000	0.0000	0.74646	0.87818	48.652
D10009	129	2.3679	0.7035	40.5020	-3.4436	0.0000	0.0000	0.0000	0.0000	0.74663	0.87819	48.655
MQSNL	130	2.2725	0.6593	40.9857	-3.4658	0.0000	0.0000	0.0000	0.0000	0.75144	0.87847	48.725
D10010	131	2.1469	0.5962	41.6820	-3.4975	0.0000	0.0000	0.0000	0.0000	0.75865	0.87885	48.825
MQB1L07	132	2.0381	0.1360	41.5957	-4.0678	0.0000	0.0000	0.0000	0.0000	0.77012	0.87942	48.975
D10005	133	2.3511	-0.4183	33.0915	3.5999	0.0000	0.0000	0.0000	0.0000	0.85468	0.88418	50.084
R171	134	2.9293	-0.6664	30.0245	3.3904	0.0000	0.0000	0.0000	0.0000	0.88519	0.88671	50.584
D10006	135	3.2933	-0.7897	28.3553	3.2864	0.0000	0.0000	0.0000	0.0000	0.89802	0.88807	50.834
R172	136	4.2559	-1.0345	25.5330	3.0797	0.0000	0.0000	0.0000	0.0000	0.91933	0.89103	51.334
D10007	137	5.8351	-1.3559	21.6433	2.8084	0.0000	0.0000	0.0000	0.0000	0.94049	0.89550	51.995
R173	138	7.3991	-1.5975	19.2067	2.6045	0.0000	0.0000	0.0000	0.0000	0.95262	0.89940	52.495
D10006	139	8.2279	-1.7175	17.9298	2.5032	0.0000	0.0000	0.0000	0.0000	0.95772	0.90155	52.745
R174	140	10.1846	-1.9560	15.7469	2.3019	0.0000	0.0000	0.0000	0.0000	0.96642	0.90629	53.245
D10007	141	12.9756	-2.2690	12.8802	2.0376	0.0000	0.0000	0.0000	0.0000	0.97557	0.91367	53.905
R175	142	15.5458	-2.5044	11.0962	1.8389	0.0000	0.0000	0.0000	0.0000	0.98117	0.92033	54.405
D10006	143	16.8272	-2.6214	10.2015	1.7402	0.0000	0.0000	0.0000	0.0000	0.98363	0.92407	54.655
R176	144	19.7974	-2.8538	8.6793	1.5440	0.0000	0.0000	0.0000	0.0000	0.98799	0.93253	55.155
D10007	145	23.7694	-3.1589	6.8095	1.2865	0.0000	0.0000	0.0000	0.0000	0.99284	0.94622	55.816
R177	146	27.3637	-3.3884	5.6984	1.0927	0.0000	0.0000	0.0000	0.0000	0.99596	0.95901	56.316
D10006	147	29.0864	-3.5024	5.1761	0.9965	0.0000	0.0000	0.0000	0.0000	0.99737	0.96634	56.566
R178	148	33.0872	-3.7291	4.3342	0.8051	0.0000	0.0000	0.0000	0.0000	0.99993	0.98317	57.066
D10014	149	39.1189	-4.0772	3.3170	0.5113	0.0000	0.0000	0.0000	0.0000	1.00335	1.01583	57.839
MAT1L08H	150	39.1189	-4.0772	3.3170	0.5113	0.0000	0.0000	0.0000	0.0000	1.00335	1.01583	57.839
D10015	151	42.4483	-4.2572	2.9692	0.3594	0.0000	0.0000	0.0000	0.0000	1.00491	1.03615	58.238
IPM1L08	152	42.4483	-4.2572	2.9692	0.3594	0.0000	0.0000	0.0000	0.0000	1.00491	1.03615	58.238
D10016	153	42.5927	-4.2648	2.9572	0.3529	0.0000	0.0000	0.0000	0.0000	1.00498	1.03706	58.255
MQSNL	154	43.1920	-4.2963	2.9096	0.3263	0.0000	0.0000	0.0000	0.0000	1.00524	1.04086	58.325
D10010	155	44.0557	-4.3414	2.8481	0.2883	0.0000	0.0000	0.0000	0.0000	1.00560	1.04639	58.425
MQB1L08	156	44.1570	3.6726	2.8469	-0.2799	0.0000	0.0000	0.0000	0.0000	1.00614	1.05481	58.575
D10005	157	36.4140	3.3087	3.9338	-0.7001	0.0000	0.0000	0.0000	0.0000	1.01054	1.10858	59.684
R181	158	33.6155	3.1456	4.7813	-0.8883	0.0000	0.0000	0.0000	0.0000	1.01282	1.12697	60.184
D10006	159	32.0629	3.0646	5.2488	-0.9818	0.0000	0.0000	0.0000	0.0000	1.01403	1.13491	60.434
R182	160	29.4507	2.9035	6.3940	-1.1678	0.0000	0.0000	0.0000	0.0000	1.01662	1.14866	60.934
D10007	161	25.7543	2.6920	8.0982	-1.4120	0.0000	0.0000	0.0000	0.0000	1.02044	1.16330	61.595
R183	162	23.4357	2.5328	9.7084	-1.5958	0.0000	0.0000	0.0000	0.0000	1.02368	1.17228	62.095
D10006	163	22.1891	2.4537	10.5291	-1.6871	0.0000	0.0000	0.0000	0.0000	1.02542	1.17621	62.345
R184	164	20.0634	2.2965	12.4425	-1.8686	0.0000	0.0000	0.0000	0.0000	1.02919	1.18317	62.845
D10007	165	17.1658	2.0899	15.0689	-2.1071	0.0000	0.0000	0.0000	0.0000	1.03486	1.19085	63.505
R185	166	15.3433	1.9345	17.4554	-2.2866	0.0000	0.0000	0.0000	0.0000	1.03976	1.19575	

D10007	187	8.4136	-0.8536	22.4678	2.8035	0.0000	0.0000	0.0000	0.0000	1.19666	1.23545	71.195
R193	188	9.4155	-0.9558	19.9940	2.6074	0.0000	0.0000	0.0000	0.0000	1.20561	1.23920	71.695
D10006	189	9.9061	-1.0066	18.7147	2.5099	0.0000	0.0000	0.0000	0.0000	1.20973	1.24126	71.945
R194	190	11.0764	-1.1077	16.4917	2.3159	0.0000	0.0000	0.0000	0.0000	1.21733	1.24579	72.445
D10007	191	12.6276	-1.2405	13.6003	2.0610	0.0000	0.0000	0.0000	0.0000	1.22622	1.25281	73.105
R195	192	14.0605	-1.3405	11.7707	1.8691	0.0000	0.0000	0.0000	0.0000	1.23220	1.25910	73.605
D10006	193	14.7432	-1.3902	10.8600	1.7737	0.0000	0.0000	0.0000	0.0000	1.23496	1.26262	73.855
R196	194	16.3470	-1.4892	9.2876	1.5838	0.0000	0.0000	0.0000	0.0000	1.24009	1.27055	74.355
D10007	195	18.4004	-1.6192	7.3600	1.3342	0.0000	0.0000	0.0000	0.0000	1.24615	1.28328	75.016
R197	196	20.2705	-1.7171	6.1905	1.1464	0.0000	0.0000	0.0000	0.0000	1.25027	1.29508	75.516
D10006	197	21.1413	-1.7658	5.6407	1.0529	0.0000	0.0000	0.0000	0.0000	1.25220	1.30182	75.766
R198	198	23.1847	-1.8627	4.7344	0.8670	0.0000	0.0000	0.0000	0.0000	1.25579	1.31724	76.266
D10019	199	25.7078	-1.9890	3.7573	0.6246	0.0000	0.0000	0.0000	0.0000	1.26006	1.34206	76.921
ITV1L10	200	25.7078	-1.9890	3.7573	0.6246	0.0000	0.0000	0.0000	0.0000	1.26006	1.34206	76.921
D10020	201	26.1783	-2.0117	3.6155	0.5811	0.0000	0.0000	0.0000	0.0000	1.26078	1.34714	77.039
MAT1L10H	202	26.1783	-2.0117	3.6155	0.5811	0.0000	0.0000	0.0000	0.0000	1.26078	1.34714	77.039
D10015	203	27.8163	-2.0887	3.2103	0.4333	0.0000	0.0000	0.0000	0.0000	1.26314	1.36584	77.438
IPM1L10	204	27.8163	-2.0887	3.2103	0.4333	0.0000	0.0000	0.0000	0.0000	1.26314	1.36584	77.438
D10016	205	27.8871	-2.0919	3.1957	0.4270	0.0000	0.0000	0.0000	0.0000	1.26324	1.36669	77.455
MQSNL	206	28.1810	-2.1054	3.1377	0.4011	0.0000	0.0000	0.0000	0.0000	1.26363	1.37020	77.525
D10010	207	28.6040	-2.1247	3.0612	0.3641	0.0000	0.0000	0.0000	0.0000	1.26419	1.37534	77.625
MQB1L10	208	28.4630	3.0558	3.0424	-0.2377	0.0000	0.0000	0.0000	0.0000	1.26503	1.38320	77.775
D10005	209	22.1315	2.6529	3.9969	-0.6229	0.0000	0.0000	0.0000	0.0000	1.27206	1.43472	78.884
RIA1	210	19.7834	2.4723	4.7509	-0.7956	0.0000	0.0000	0.0000	0.0000	1.27587	1.45302	79.384
D10006	211	18.5698	2.3824	5.1702	-0.8816	0.0000	0.0000	0.0000	0.0000	1.27794	1.46105	79.634
RIA2	212	16.4543	2.2035	6.1948	-1.0525	0.0000	0.0000	0.0000	0.0000	1.28249	1.47513	80.134
D10007	213	13.6982	1.9685	7.7339	-1.2773	0.0000	0.0000	0.0000	0.0000	1.28950	1.49034	80.795
RIA3	214	11.9469	1.7914	9.1807	-1.4466	0.0000	0.0000	0.0000	0.0000	1.29572	1.49979	81.295
D10006	215	11.0732	1.7033	9.9251	-1.5308	0.0000	0.0000	0.0000	0.0000	1.29918	1.50396	81.545
RIA4	216	9.5600	1.5280	11.6467	-1.6984	0.0000	0.0000	0.0000	0.0000	1.30692	1.51136	82.045
D10007	217	7.6934	1.2976	14.0362	-1.9188	0.0000	0.0000	0.0000	0.0000	1.31919	1.51959	82.705
RIA5	218	6.5526	1.1240	16.1865	-2.0847	0.0000	0.0000	0.0000	0.0000	1.33041	1.52487	83.205
D10006	219	6.0122	1.0377	17.2495	-2.1673	0.0000	0.0000	0.0000	0.0000	1.33675	1.52725	83.455
RIA6	220	5.1146	0.8658	19.6786	-2.3316	0.0000	0.0000	0.0000	0.0000	1.35112	1.53157	83.955
D10007	221	4.1200	0.6398	22.9019	-2.5477	0.0000	0.0000	0.0000	0.0000	1.37410	1.53653	84.616
RIA7	222	3.6025	0.4696	25.7655	-2.7104	0.0000	0.0000	0.0000	0.0000	1.39482	1.53980	85.116
D10006	223	3.3889	0.3849	27.1410	-2.7914	0.0000	0.0000	0.0000	0.0000	1.40621	1.54131	85.366
RIA8	224	3.1194	0.2163	30.2871	-2.9526	0.0000	0.0000	0.0000	0.0000	1.43079	1.54408	85.866
D10014	225	2.9854	-0.0430	35.0415	-3.2005	0.0000	0.0000	0.0000	0.0000	1.47153	1.54786	86.639
MBT1L11H	226	2.9854	-0.0430	35.0415	-3.2005	0.0000	0.0000	0.0000	0.0000	1.47153	1.54786	86.639
D10017	227	3.0205	-0.1167	36.4634	-3.2710	0.0000	0.0000	0.0000	0.0000	1.48318	1.54884	86.858
MAT1L11V	228	3.0205	-0.1167	36.4634	-3.2710	0.0000	0.0000	0.0000	0.0000	1.48318	1.54884	86.858
D10018	229	3.0733	-0.1770	37.6498	-3.3287	0.0000	0.0000	0.0000	0.0000	1.49258	1.54961	87.038
IPM1L11	230	3.0733	-0.1770	37.6498	-3.3287	0.0000	0.0000	0.0000	0.0000	1.49258	1.54961	87.038
D10016	231	3.0794	-0.1827	37.7627	-3.3341	0.0000	0.0000	0.0000	0.0000	1.49346	1.54968	87.055
MQSNL	232	3.1066	-0.2062	38.2310	-3.3566	0.0000	0.0000	0.0000	0.0000	1.49706	1.54997	87.125
D10010	233	3.1512	-0.2398	38.9056	-3.3887	0.0000	0.0000	0.0000	0.0000	1.50214	1.55038	87.225
MQB1L11	234	3.3186	-0.8862	38.8621	-3.6758	0.0000	0.0000	0.0000	0.0000	1.50956	1.55100	87.375
D10005	235	5.9460	-1.4828	31.1678	3.2616	0.0000	0.0000	0.0000	0.0000	1.54973	1.55607	88.484
RI1	236	7.6268	-1.7505	28.2803	3.0758	0.0000	0.0000	0.0000	0.0000	1.56155	1.55875	88.984
D10006	237	8.5354	-1.8837	26.7655	2.9833	0.0000	0.0000	0.0000	0.0000	1.56649	1.56020	89.234
RI2	238	10.6416	-2.1489	24.1127	2.7993	0.0000	0.0000	0.0000	0.0000	1.57484	1.56333	89.734
D10007	239	13.7111	-2.4977	20.5742	2.5572	0.0000	0.0000	0.0000	0.0000	1.58355	1.56805	90.395
RI3	240	16.4803	-2.7604	18.2886	2.3748	0.0000	0.0000	0.0000	0.0000	1.58884	1.57215	90.895
D10006	241	17.8932	-2.8912	17.1239	2.2841	0.0000	0.0000	0.0000	0.0000	1.59116	1.57440	91.145
RI4	242	21.0937	-3.1515	15.0783	2.1034	0.0000	0.0000	0.0000	0.0000	1.59526	1.57935	91.645
D10007	243	25.4837	-3.4939	12.4563	1.8657	0.0000	0.0000	0.0000	0.0000	1.59979	1.58703	92.305
RI5	244	29.3564	-3.7518	10.7861	1.6867	0.0000	0.0000	0.0000	0.0000	1.60270	1.59390	92.805
D10006	245	31.2644	-3.8802	9.9650	1.5976	0.0000	0.0000	0.0000	0.0000	1.60401	1.59773	93.055
RI6	246	35.5741	-4.1358	8.5398	1.4201	0.0000	0.0000	0.0000	0.0000	1.60640	1.60636	93.555
D10007	247	41.2605	-4.4720	6.8177	1.1868	0.0000	0.0000	0.0000	0.0000	1.60915	1.62016	94.216
RI7	248	46.2508	-4.7253	5.7752	1.0109	0.0000	0.0000	0.0000	0.0000	1.61097	1.63286	94.716
D10006	249	48.6449	-4.8514	5.2916	0.9234	0.0000	0.0000	0.0000	0.0000	1.61181	1.64006	95.466
RI8	250	54.0775	-5.1025	4.4988	0.7491	0.0000	0.0000	0.0000	0.0000	1.61336	1.65639	95.966
D10014	251	62.2612	-5.4888	3.5483	0.4810	0.0000	0.0000	0.0000	0.0000	1.61548	1.68737	96.239
MAT1L12H	252	62.2612	-5.4888	3.5483	0.4810	0.0000	0.0000	0.0000	0.0000	1.61548	1.68737	96.239
D10015	253	66.7263	-5.6885	3.2194	0.3424	0.0000	0.0000	0.0000	0.0000	1.61646	1.70622	96.638
IPM1L12	254	66.7263	-5.6885	3.2194	0.3424	0.0000	0.0000	0.0000	0.0000	1.61646	1.70622	96.638
D10016	255	66.9193	-5.6970	3.2079	0.3365	0.0000	0.0000	0.0000	0.0000	1.61650	1.70706	96.655
MQSNL	256	67.7193	-5.7320	3.1625	0.3122	0.0000	0.0000	0.0000	0.0000	1.61667	1.71056	96.725
D10010	257	68.8707	-5.7820	3.1035	0.2775	0.0000	0.0000	0.0000	0.0000	1.61690	1.71564	96.825
MQB1L12	258	68.7284	6.7218	3.1119	-0.3334	0.0000	0.0000	0.0000	0.0000	1.61725	1.72336	96.975
D10005	259	54.6446	5.9766	4.2908	-0.7295	0.0000	0.0000	0.0000	0.0000	1.62013	1.72744	98.084
RI1	260	49.2924	5.6421	5.1506	-0.9072	0.0000	0.0000	0.0000	0.0000	1.62166	1.78940	98.584
D10006	261	46.5130	5.4755	5.6263	-0.9957	0.0000	0.0000	0.0000	0.0000	1.62249	1.79680	98.834
RI2	262	41.5873	5.1439	6.7642	-1.1719	0.0000	0.0000	0.0000	0.0000	1.62430	1.80971	99.334
D10007	263	35.0792	4.7077	8.4656	-1.4037	0.0000	0.0000	0.0000	0.0000	1.62705	1.82362	99.995
RI3	264	30.8207	4.3790	10.0366	-1.5784	0.0000	0.0000	0.0000	0.0000	1.62947	1.83226	100.495
D10006	265	28.6721	4.2154	10.8476	-1.6654	0.0000	0.0000	0.0000	0.0000	1.63081	1.83607	100.745
RI4	266	24.8490	3.8895	12.7004	-1.8386	0.0000	0.0000	0.0000	0.0000	1.63379	1.84286	101.245
D10007	267	19.9935	3.4664	15.2800	-2.0664	0.0000	0.0000	0.0000	0.0000	1.63851	1.85041	101.905
RI5	268	16.8509	3.1376	17.5717	-2.2381	0.0000	0.0000	0.0000	0.0000	1.64285	1.85526	102.405
D10006	269	15.3223	2.9767	18.7122	-2.3236	0.0000	0.0000	0.0000	0.0000	1.64532	1.85746	102.655
RI6	270	12.6236	2.6563	21.2894	-2.4939	0.0000	0.0000	0.0000	0.0000	1.65105	1.86144	

D10006	291	8.2063	-1.7287	18.0007	2.4682	0.0000	0.0000	0.0000	0.0000	1.95744	1.90153	110.345
RD4	292	10.1295	-1.9707	15.7660	2.2720	0.0000	0.0000	0.0000	0.0000	1.96618	1.90626	110.845
D10007	293	12.9436	-2.2892	12.9348	2.0138	0.0000	0.0000	0.0000	0.0000	1.97536	1.91362	111.505
RD5	294	15.4658	-2.5293	11.1140	1.8192	0.0000	0.0000	0.0000	0.0000	1.98099	1.92026	112.005
D10006	295	16.7603	-2.6489	10.2286	1.7222	0.0000	0.0000	0.0000	0.0000	1.98346	1.92399	112.255
RD6	296	19.6720	-2.8871	8.6776	1.5291	0.0000	0.0000	0.0000	0.0000	1.98784	1.93244	112.755
D10007	297	23.6936	-3.2006	6.8252	1.2750	0.0000	0.0000	0.0000	0.0000	1.99272	1.94612	113.416
RD7	298	27.2116	-3.4369	5.6950	1.0834	0.0000	0.0000	0.0000	0.0000	1.99585	1.95890	113.916
D10006	299	28.9594	-3.5546	5.1772	0.9880	0.0000	0.0000	0.0000	0.0000	1.99727	1.96623	114.166
RD8	300	32.8715	-3.7891	4.3211	0.7979	0.0000	0.0000	0.0000	0.0000	1.99985	1.98309	114.666
D10019	301	38.0364	-4.0952	3.4383	0.5498	0.0000	0.0000	0.0000	0.0000	2.00279	2.01027	115.321
ITV1L14	302	38.0364	-4.0952	3.4383	0.5498	0.0000	0.0000	0.0000	0.0000	2.00279	2.01027	115.321
D10020	303	39.0060	-4.1501	3.3143	0.5052	0.0000	0.0000	0.0000	0.0000	2.00328	2.01581	115.439
MAT1L14H	304	39.0060	-4.1501	3.3143	0.5052	0.0000	0.0000	0.0000	0.0000	2.00328	2.01581	115.439
D10015	305	42.3963	-4.3368	2.9711	0.3539	0.0000	0.0000	0.0000	0.0000	2.00484	2.03613	115.838
IPM1L14	306	42.3963	-4.3368	2.9711	0.3539	0.0000	0.0000	0.0000	0.0000	2.00484	2.03613	115.838
D10016	307	42.5434	-4.3447	2.9592	0.3475	0.0000	0.0000	0.0000	0.0000	2.00491	2.03704	115.855
MQSNL	308	43.1540	-4.3774	2.9124	0.3210	0.0000	0.0000	0.0000	0.0000	2.00517	2.04083	115.925
D10010	309	44.0341	-4.4241	2.8520	0.2831	0.0000	0.0000	0.0000	0.0000	2.00553	2.04636	116.025
MQB1L14	310	44.1607	-4.4241	2.8520	-0.2859	0.0000	0.0000	0.0000	0.0000	2.00607	2.05477	116.175
D10005	311	36.5882	3.2396	3.9530	-0.7065	0.0000	0.0000	0.0000	0.0000	2.01046	2.10834	117.284
RIE1	312	33.6979	3.0831	4.7876	-0.8954	0.0000	0.0000	0.0000	0.0000	2.01273	2.12667	117.784
D10006	313	32.1758	3.0051	5.2588	-0.9895	0.0000	0.0000	0.0000	0.0000	2.01394	2.13461	118.034
RIE2	314	29.4842	2.8499	6.3865	-1.1769	0.0000	0.0000	0.0000	0.0000	2.01652	2.14836	118.534
D10007	315	25.8540	2.6455	8.1044	-1.4236	0.0000	0.0000	0.0000	0.0000	2.02033	2.16299	119.195
RIE3	316	23.4728	2.4914	9.6886	-1.6096	0.0000	0.0000	0.0000	0.0000	2.02356	2.17198	119.695
D10006	317	22.2463	2.4146	10.5166	-1.7023	0.0000	0.0000	0.0000	0.0000	2.02530	2.17592	119.945
RIE4	318	20.0676	2.2617	12.3974	-1.8869	0.0000	0.0000	0.0000	0.0000	2.02907	2.18289	120.445
D10007	319	17.2124	2.0604	15.0509	-2.1299	0.0000	0.0000	0.0000	0.0000	2.03473	2.19059	121.105
RIE5	320	15.3497	1.9086	17.3938	-2.3131	0.0000	0.0000	0.0000	0.0000	2.03962	2.19551	121.605
D10006	321	14.4143	1.8330	18.5731	-2.4044	0.0000	0.0000	0.0000	0.0000	2.04230	2.19772	121.855
RIE6	322	12.7576	1.6823	21.2161	-2.5863	0.0000	0.0000	0.0000	0.0000	2.04817	2.20173	122.355
D10007	323	10.6659	1.4840	24.7913	-2.8257	0.0000	0.0000	0.0000	0.0000	2.05719	2.20632	123.016
RIE7	324	9.3304	1.3344	27.9014	-3.0062	0.0000	0.0000	0.0000	0.0000	2.06517	2.20934	123.516
D10006	325	8.6818	1.2599	29.4270	-3.0962	0.0000	0.0000	0.0000	0.0000	2.06959	2.21073	123.766
RIE8	326	7.5556	1.1114	32.8404	-3.2754	0.0000	0.0000	0.0000	0.0000	2.07942	2.21329	124.266
D10021	327	5.6410	0.8178	39.6931	-3.6298	0.0000	0.0000	0.0000	0.0000	2.10371	2.21767	125.258
D10018	328	5.6410	0.8178	39.6931	-3.6298	0.0000	0.0000	0.0000	0.0000	2.10371	2.21767	125.258
MAT1L15V	329	5.3565	0.7647	41.0096	-3.6940	0.0000	0.0000	0.0000	0.0000	2.10891	2.21837	125.438
IPM1L15	330	5.3565	0.7647	41.0096	-3.6940	0.0000	0.0000	0.0000	0.0000	2.10891	2.21837	125.438
D10016	331	5.3307	0.7596	41.1349	-3.7000	0.0000	0.0000	0.0000	0.0000	2.10942	2.21844	125.455
MQSNL	332	5.2257	0.7389	41.6547	-3.7250	0.0000	0.0000	0.0000	0.0000	2.11153	2.21871	125.525
D10010	333	5.0809	0.7094	42.4033	-3.7608	0.0000	0.0000	0.0000	0.0000	2.11462	2.21909	125.625
MQB1L15	334	5.0104	-0.2352	42.3759	3.9413	0.0000	0.0000	0.0000	0.0000	2.11937	2.21965	125.775
D10005	335	5.7913	-0.4688	34.1132	3.5086	0.0000	0.0000	0.0000	0.0000	2.15238	2.22429	126.884
RIF1	336	6.3567	-0.5738	30.9380	3.3142	0.0000	0.0000	0.0000	0.0000	2.16551	2.22674	127.384
D10006	337	6.6566	-0.6260	29.3051	3.2174	0.0000	0.0000	0.0000	0.0000	2.17162	2.22806	127.634
RIF2	338	7.3853	-0.7302	26.3849	3.0244	0.0000	0.0000	0.0000	0.0000	2.18298	2.23093	128.134
D10007	339	8.4407	-0.8673	22.5569	2.7703	0.0000	0.0000	0.0000	0.0000	2.19632	2.23524	128.795
RIF3	340	9.4236	-0.9708	20.0348	2.5787	0.0000	0.0000	0.0000	0.0000	2.20524	2.23898	129.295
D10006	341	9.9219	-1.0223	18.7693	2.4833	0.0000	0.0000	0.0000	0.0000	2.20936	2.24103	129.545
RIF4	342	11.0701	-1.1250	16.5065	2.2931	0.0000	0.0000	0.0000	0.0000	2.21695	2.24555	130.045
D10007	343	12.6458	-1.2602	13.6424	2.0426	0.0000	0.0000	0.0000	0.0000	2.22585	2.25256	130.705
RIF5	344	14.0512	-1.3622	11.7840	1.8537	0.0000	0.0000	0.0000	0.0000	2.23182	2.25884	131.205
D10006	345	14.7449	-1.4130	10.8806	1.7596	0.0000	0.0000	0.0000	0.0000	2.23458	2.26235	131.455
RIF6	346	16.3173	-1.5142	9.2855	1.5720	0.0000	0.0000	0.0000	0.0000	2.23971	2.27027	131.955
D10007	347	18.4060	-1.6475	7.3717	1.3251	0.0000	0.0000	0.0000	0.0000	2.24578	2.28299	132.616
RIF7	348	20.2382	-1.7481	6.1869	1.1388	0.0000	0.0000	0.0000	0.0000	2.24990	2.29479	133.116
D10006	349	21.1248	-1.7982	5.6407	1.0460	0.0000	0.0000	0.0000	0.0000	2.25183	2.30153	133.366
RIF8	350	23.1258	-1.8980	4.7231	0.8610	0.0000	0.0000	0.0000	0.0000	2.25443	2.31697	133.866
D10014	351	26.1777	-2.0518	3.6126	0.5761	0.0000	0.0000	0.0000	0.0000	2.26043	2.34692	134.639
MAT1L16H	352	26.1777	-2.0518	3.6126	0.5761	0.0000	0.0000	0.0000	0.0000	2.26043	2.34692	134.639
D10015	353	27.8488	-2.1313	3.2112	0.4288	0.0000	0.0000	0.0000	0.0000	2.26278	2.35663	135.038
IPM1L16	354	27.8488	-2.1313	3.2112	0.4288	0.0000	0.0000	0.0000	0.0000	2.26278	2.35663	135.038
D10016	355	27.9211	-2.1347	3.1967	0.4226	0.0000	0.0000	0.0000	0.0000	2.26288	2.36647	135.055
MQSNL	356	28.2209	-2.1486	3.1394	0.3968	0.0000	0.0000	0.0000	0.0000	2.26328	2.36998	135.125
D10010	357	28.6526	-2.1685	3.0637	0.3599	0.0000	0.0000	0.0000	0.0000	2.26384	2.37512	135.225
MQB1L16	358	28.5234	3.0221	3.0462	-0.2424	0.0000	0.0000	0.0000	0.0000	2.26467	2.38297	135.375
D10005	359	22.2569	2.6281	4.0115	-0.6279	0.0000	0.0000	0.0000	0.0000	2.27168	2.43435	136.484
RIG1	360	19.8619	2.4510	4.7561	-0.8011	0.0000	0.0000	0.0000	0.0000	2.27546	2.45261	136.984
D10006	361	18.6584	2.3628	5.1782	-0.8874	0.0000	0.0000	0.0000	0.0000	2.27753	2.46063	137.234
RIG2	362	16.5033	2.1870	6.1904	-1.0594	0.0000	0.0000	0.0000	0.0000	2.28206	2.47471	137.734
D10007	363	13.7668	1.9555	7.7397	-1.2859	0.0000	0.0000	0.0000	0.0000	2.28904	2.48992	138.395
RIG3	364	11.9857	1.7809	9.1682	-1.4567	0.0000	0.0000	0.0000	0.0000	2.29524	2.49937	138.895
D10006	365	11.1170	1.6939	9.9178	-1.5419	0.0000	0.0000	0.0000	0.0000	2.29868	2.50354	139.145
RIG4	366	9.5794	1.5205	11.6169	-1.7115	0.0000	0.0000	0.0000	0.0000	2.30640	2.51096	139.645
D10007	367	7.7214	1.2921	14.0258	-1.9350	0.0000	0.0000	0.0000	0.0000	2.31864	2.51920	140.305
RIG5	368	6.5632	1.1198	16.1458	-2.1036	0.0000	0.0000	0.0000	0.0000	2.32982	2.52449	140.805
D10006	369	6.0248	1.0339	17.2186	-2.1876	0.0000	0.0000	0.0000	0.0000	2.33615	2.52688	141.055
RIG6	370	5.1134	0.8628	19.6121	-2.3550	0.0000	0.0000	0.0000	0.0000	2.35051	2.53121	141.555
D10007	371	4.1223	0.6374	22.8691	-2.5755	0.0000	0.0000	0.0000	0.0000	2.37349	2.53617	142.216
RIG7	372	3.5953	0.4674	25.6878	-2.7418	0.0000	0.0000	0.0000	0.0000	2.39422	2.53946	142.716
D10006	373	3.3828	0.3827	27.0794	-2.8247	0.0000	0.0000	0.0000	0.0000	2.40564	2.54097	142.966
RIG8	374	3.1058	0.2138	30.								

D10007	395	41.2239	-4.5210	6.8242	1.1803	0.0000	0.0000	0.0000	0.0000	2.60893	2.61975	151.816
RIH7	396	46.1480	-4.7802	5.7707	1.0055	0.0000	0.0000	0.0000	0.0000	2.61075	2.63244	152.316
D10006	397	48.5704	-4.9094	5.2897	0.9184	0.0000	0.0000	0.0000	0.0000	2.61159	2.63964	152.566
RIH8	398	53.9275	-5.1670	4.4885	0.7447	0.0000	0.0000	0.0000	0.0000	2.61315	2.65600	153.066
D10019	399	60.9175	-5.5035	3.6615	0.5178	0.0000	0.0000	0.0000	0.0000	2.61497	2.68184	153.721
ITV1L18	400	60.9175	-5.5035	3.6615	0.5178	0.0000	0.0000	0.0000	0.0000	2.61497	2.68184	153.721
D10020	401	62.2191	-5.5639	3.5445	0.4771	0.0000	0.0000	0.0000	0.0000	2.61527	2.68703	153.839
MAT1L18H	402	62.2191	-5.5639	3.5445	0.4771	0.0000	0.0000	0.0000	0.0000	2.61527	2.68703	153.839
D10015	403	66.7463	-5.7691	3.2186	0.3387	0.0000	0.0000	0.0000	0.0000	2.61626	2.70590	154.238
IPM1L18	404	66.7463	-5.7691	3.2186	0.3387	0.0000	0.0000	0.0000	0.0000	2.61626	2.70590	154.238
D10016	405	66.9420	-5.7778	3.2072	0.3329	0.0000	0.0000	0.0000	0.0000	2.61630	2.70674	154.255
MQSNL	406	67.7534	-5.8137	3.1623	0.3086	0.0000	0.0000	0.0000	0.0000	2.61646	2.71024	154.325
D10010	407	68.9213	-5.8651	3.1041	0.2740	0.0000	0.0000	0.0000	0.0000	2.61670	2.71532	154.425
MQB1L18	408	68.8024	6.6502	3.1134	-0.3371	0.0000	0.0000	0.0000	0.0000	2.61704	2.72304	154.575
D10005	409	54.8595	5.9212	4.3012	-0.7338	0.0000	0.0000	0.0000	0.0000	2.61991	2.77204	155.684
RI11	410	49.4246	5.5935	5.1535	-0.9121	0.0000	0.0000	0.0000	0.0000	2.62144	2.78898	156.184
D10006	411	46.6687	5.4302	5.6317	-1.0010	0.0000	0.0000	0.0000	0.0000	2.62227	2.79636	156.434
RI12	412	41.6728	5.1046	6.7594	-1.1782	0.0000	0.0000	0.0000	0.0000	2.62408	2.80928	156.934
D10007	413	35.2119	4.6757	8.4702	-1.4116	0.0000	0.0000	0.0000	0.0000	2.62682	2.82319	157.595
RI13	414	30.9000	4.3520	10.0263	-1.5877	0.0000	0.0000	0.0000	0.0000	2.62923	2.83183	158.095
D10006	415	28.7643	4.1907	10.8421	-1.6755	0.0000	0.0000	0.0000	0.0000	2.63057	2.83565	158.345
RI14	416	24.8974	3.8690	12.6765	-1.8505	0.0000	0.0000	0.0000	0.0000	2.63354	2.84244	158.845
D10007	417	20.0655	3.4453	15.2738	-2.0811	0.0000	0.0000	0.0000	0.0000	2.63825	2.84999	159.505
RI15	418	16.8916	3.1256	17.5409	-2.2551	0.0000	0.0000	0.0000	0.0000	2.64257	2.85486	160.005
D10006	419	15.3687	2.9662	18.6901	-2.3418	0.0000	0.0000	0.0000	0.0000	2.64504	2.85705	160.255
RI16	420	12.6454	2.6484	21.2382	-2.5148	0.0000	0.0000	0.0000	0.0000	2.65075	2.86105	160.755
D10007	421	9.4230	2.2297	24.7112	-2.7426	0.0000	0.0000	0.0000	0.0000	2.66039	2.86564	161.416
RI17	422	7.4014	1.9138	27.6959	-2.9145	0.0000	0.0000	0.0000	0.0000	2.66992	2.86868	161.916
D10006	423	6.4839	1.7563	29.1746	-3.0002	0.0000	0.0000	0.0000	0.0000	2.67567	2.87008	162.166
RI18	424	4.9184	1.4423	32.4429	-3.1711	0.0000	0.0000	0.0000	0.0000	2.68978	2.87267	162.666
D10021	425	2.6726	0.8208	39.0724	-3.5093	0.0000	0.0000	0.0000	0.0000	2.73390	2.87710	163.658
MAT1L19V	426	2.6726	0.8208	39.0724	-3.5093	0.0000	0.0000	0.0000	0.0000	2.73390	2.87710	163.658
D10018	427	2.3977	0.7082	40.3451	-3.5705	0.0000	0.0000	0.0000	0.0000	2.74521	2.87782	163.838
IPM1L19	428	2.3977	0.7082	40.3451	-3.5705	0.0000	0.0000	0.0000	0.0000	2.74521	2.87782	163.838
D10016	429	2.3739	0.6976	40.4662	-3.5763	0.0000	0.0000	0.0000	0.0000	2.74635	2.87789	163.855
MQSNL	430	2.2793	0.6538	40.9686	-3.6002	0.0000	0.0000	0.0000	0.0000	2.75114	2.87816	163.925
D10010	431	2.1548	0.5911	41.6920	-3.6343	0.0000	0.0000	0.0000	0.0000	2.75832	2.87855	164.025
MQB1L19	432	2.0476	0.1300	41.6462	3.9368	0.0000	0.0000	0.0000	0.0000	2.76975	2.87912	164.175
D10005	433	2.3702	-0.4208	33.4010	3.4974	0.0000	0.0000	0.0000	0.0000	2.85371	2.88385	165.284
RI11	434	2.9304	-0.6684	30.1897	3.2999	0.0000	0.0000	0.0000	0.0000	2.88409	2.88636	165.784
D10006	435	3.2954	-0.7918	28.5644	3.2014	0.0000	0.0000	0.0000	0.0000	2.89691	2.88771	166.034
RI12	436	4.2324	-1.0380	25.6198	3.0051	0.0000	0.0000	0.0000	0.0000	2.91828	2.89066	166.534
D10007	437	5.8179	-1.3622	21.8203	2.7465	0.0000	0.0000	0.0000	0.0000	2.93953	2.89510	167.195
RI13	438	7.3408	-1.6069	19.2911	2.5513	0.0000	0.0000	0.0000	0.0000	2.95172	2.89898	167.695
D10006	439	8.1747	-1.7289	18.0398	2.4540	0.0000	0.0000	0.0000	0.0000	2.95686	2.90112	167.945
RI14	440	10.0781	-1.9722	15.7808	2.2599	0.0000	0.0000	0.0000	0.0000	2.96563	2.90583	168.445
D10007	441	12.8955	-2.2927	12.9639	2.0043	0.0000	0.0000	0.0000	0.0000	2.97486	2.91319	169.105
RI15	442	15.3905	-2.5346	11.1255	1.8113	0.0000	0.0000	0.0000	0.0000	2.98051	2.91981	169.605
D10006	443	16.6879	-2.6552	10.2439	1.7151	0.0000	0.0000	0.0000	0.0000	2.98299	2.92354	169.855
RI16	444	19.5671	-2.8957	8.6788	1.5233	0.0000	0.0000	0.0000	0.0000	2.98740	2.93199	170.355
D10007	445	23.6021	-3.2125	6.8332	1.2705	0.0000	0.0000	0.0000	0.0000	2.99229	2.94565	171.016
RI17	446	27.0784	-3.4516	5.6937	1.0798	0.0000	0.0000	0.0000	0.0000	2.99544	2.95843	171.516
D10006	447	28.8340	-3.5708	5.1776	0.9847	0.0000	0.0000	0.0000	0.0000	2.99686	2.96576	171.766
RI18	448	32.6978	-3.8086	4.3146	0.7950	0.0000	0.0000	0.0000	0.0000	2.99945	2.98263	172.266
D10014	449	38.8666	-4.1750	3.3118	0.5027	0.0000	0.0000	0.0000	0.0000	3.00290	3.01539	173.039
MAT1L20H	450	38.8666	-4.1750	3.3118	0.5027	0.0000	0.0000	0.0000	0.0000	3.00290	3.01539	173.039
D10015	451	42.2779	-4.3645	2.9705	0.3516	0.0000	0.0000	0.0000	0.0000	3.00447	3.03571	173.438
IPM1L20	452	42.2779	-4.3645	2.9705	0.3516	0.0000	0.0000	0.0000	0.0000	3.00447	3.03571	173.438
D10016	453	42.4260	-4.3725	2.9587	0.3452	0.0000	0.0000	0.0000	0.0000	3.00454	3.03662	173.455
MQSNL	454	43.0405	-4.4057	2.9122	0.3187	0.0000	0.0000	0.0000	0.0000	3.00480	3.04042	173.525
D10010	455	43.9264	-4.4531	2.8523	0.2809	0.0000	0.0000	0.0000	0.0000	3.00516	3.04594	173.625
MQB1L20	456	44.0645	3.5403	2.8533	-0.2882	0.0000	0.0000	0.0000	0.0000	3.00570	3.05435	173.775
D10005	457	36.5892	3.1997	3.9595	-0.7092	0.0000	0.0000	0.0000	0.0000	3.01010	3.10787	174.884
RIK1	458	33.6638	3.0465	4.7879	-0.8984	0.0000	0.0000	0.0000	0.0000	3.01237	3.12619	175.384
D10006	459	32.1596	2.9702	5.2607	-0.9928	0.0000	0.0000	0.0000	0.0000	3.01358	3.13412	175.634
RIK2	460	29.4379	2.8179	6.3801	-1.1810	0.0000	0.0000	0.0000	0.0000	3.01616	3.14787	176.134
D10007	461	25.8474	2.6173	8.1042	-1.4289	0.0000	0.0000	0.0000	0.0000	3.01997	3.16252	176.795
RIK3	462	23.4430	2.4658	9.6761	-1.6161	0.0000	0.0000	0.0000	0.0000	3.02321	3.17151	177.295
D10006	463	22.2289	2.3903	10.5075	-1.7094	0.0000	0.0000	0.0000	0.0000	3.02495	3.17545	177.545
RIK4	464	20.0308	2.2397	12.3732	-1.8955	0.0000	0.0000	0.0000	0.0000	3.02872	3.18244	178.045
D10007	465	17.2028	2.0413	15.0395	-2.1407	0.0000	0.0000	0.0000	0.0000	3.03439	3.19015	178.705
RIK5	466	15.3258	1.8916	17.3619	-2.3258	0.0000	0.0000	0.0000	0.0000	3.03929	3.19507	179.205
D10006	467	14.3987	1.8169	18.5478	-2.4181	0.0000	0.0000	0.0000	0.0000	3.04197	3.19729	179.455
RIK6	468	12.7306	1.6679	21.1666	-2.6021	0.0000	0.0000	0.0000	0.0000	3.04785	3.20130	179.955
D10007	469	10.6565	1.4717	24.7647	-2.8447	0.0000	0.0000	0.0000	0.0000	3.05688	3.20590	180.616
RIK7	470	9.3133	1.3235	27.8441	-3.0277	0.0000	0.0000	0.0000	0.0000	3.06487	3.20893	181.116
D10006	471	8.6700	1.2497	29.3808	-3.1190	0.0000	0.0000	0.0000	0.0000	3.06930	3.21032	181.366
RIK8	472	7.5378	1.1023	32.7591	-3.3011	0.0000	0.0000	0.0000	0.0000	3.07915	3.21288	181.866
D10021	473	5.6393	0.8107	39.6687	-3.6615	0.0000	0.0000	0.0000	0.0000	3.10347	3.21727	182.858
MAT1L21V	474	5.6393	0.8107	39.6687	-3.6615	0.0000	0.0000	0.0000	0.0000	3.10347	3.21727	182.858
D10018	475	5.3574	0.7579	40.9968	-3.7268	0.0000	0.0000	0.0000	0.0000	3.10867	3.21798	183.038
IPM1L21	476	5.3574	0.7579	40.9968	-3.7268	0.0000	0.0000	0.0000	0.0000	3.10867	3.21798	183.038
D10016	477	5.3318	0.7529	41.1233	-3.7330	0.0000	0.0000	0.0000	0.0000	3.10918	3.21804	183.055
MQSNL	478	5.2278										

D10020	499	26.2311	-2.0754	3.6107	0.5736	0.0000	0.0000	0.0000	0.0000	3.25983	3.34650	192.239
MAT1L22H	500	26.2311	-2.0754	3.6107	0.5736	0.0000	0.0000	0.0000	0.0000	3.25983	3.34650	192.239
D10015	501	27.9216	-2.1563	3.2112	0.4266	0.0000	0.0000	0.0000	0.0000	3.26218	3.36521	192.638
IPM1L22	502	27.9216	-2.1563	3.2112	0.4266	0.0000	0.0000	0.0000	0.0000	3.26218	3.36521	192.638
D10022	503	28.7349	-2.1941	3.0646	0.3577	0.0000	0.0000	0.0000	0.0000	3.26323	3.37470	192.825
MQB1L22	504	28.6111	3.0120	3.0478	-0.2448	0.0000	0.0000	0.0000	0.0000	3.26406	3.38255	192.975
D100A05	505	22.8907	2.6568	3.8960	-0.5957	0.0000	0.0000	0.0000	0.0000	3.27034	3.42985	193.984
R1M1	506	19.7129	2.4125	4.9760	-0.8370	0.0000	0.0000	0.0000	0.0000	3.27558	3.45527	194.684
D100A06	507	19.4725	2.3952	5.0605	-0.8541	0.0000	0.0000	0.0000	0.0000	3.27599	3.45685	194.734
R1M2	508	16.5957	2.1551	6.5213	-1.0913	0.0000	0.0000	0.0000	0.0000	3.28219	3.47629	195.434
D100A07	509	14.6826	1.9984	7.5979	-1.2461	0.0000	0.0000	0.0000	0.0000	3.28688	3.48671	195.895
R1M3	510	12.2768	1.7623	9.6505	-1.4793	0.0000	0.0000	0.0000	0.0000	3.29519	3.49974	196.595
D100A06	511	12.1014	1.7456	9.7993	-1.4958	0.0000	0.0000	0.0000	0.0000	3.29584	3.50056	196.645
R1M4	512	10.0028	1.5134	12.2360	-1.7252	0.0000	0.0000	0.0000	0.0000	3.30597	3.51074	197.345
D100A07	513	8.6784	1.3619	13.8942	-1.8749	0.0000	0.0000	0.0000	0.0000	3.31384	3.51636	197.805
R1M5	514	7.0597	1.1335	16.9274	-2.1005	0.0000	0.0000	0.0000	0.0000	3.32809	3.52363	198.505
D100A06	515	6.9471	1.1173	17.1382	-2.1165	0.0000	0.0000	0.0000	0.0000	3.32923	3.52410	198.555
R1M6	516	5.6409	0.8926	20.5581	-2.3385	0.0000	0.0000	0.0000	0.0000	3.34707	3.53003	199.255
D100A07	517	4.8863	0.7459	22.7791	-2.4834	0.0000	0.0000	0.0000	0.0000	3.36105	3.53342	199.716
R1M7	518	4.0674	0.5247	26.7990	-2.7019	0.0000	0.0000	0.0000	0.0000	3.38614	3.53793	200.416
D100A06	519	4.0157	0.5090	27.0700	-2.7174	0.0000	0.0000	0.0000	0.0000	3.38811	3.53823	200.466
R1M8	520	3.5140	0.2912	31.4787	-2.9326	0.0000	0.0000	0.0000	0.0000	3.41794	3.54204	201.166
D100A21	521	3.2401	0.0157	36.9555	-3.2047	0.0000	0.0000	0.0000	0.0000	3.46054	3.54621	202.058
MAT1L23V	522	3.2401	0.0157	36.9555	-3.2047	0.0000	0.0000	0.0000	0.0000	3.46054	3.54621	202.058
D100A18	523	3.2444	-0.0398	38.1175	-3.2595	0.0000	0.0000	0.0000	0.0000	3.46937	3.54697	202.238
IPM1L23	524	3.2444	-0.0398	38.1175	-3.2595	0.0000	0.0000	0.0000	0.0000	3.46937	3.54697	202.238
D100A22	525	3.2700	-0.0975	39.3469	-3.3165	0.0000	0.0000	0.0000	0.0000	3.47851	3.54774	202.425
MQB1L23	526	3.3966	-0.7539	39.2699	3.8250	0.0000	0.0000	0.0000	0.0000	3.48571	3.54834	202.575
D100A05	527	5.3883	-1.2198	31.9557	3.4233	0.0000	0.0000	0.0000	0.0000	3.52360	3.55288	203.584
R1N1	528	7.4183	-1.5406	27.8130	3.1468	0.0000	0.0000	0.0000	0.0000	3.54126	3.55661	204.284
D100A06	529	7.5735	-1.5633	27.4993	3.1272	0.0000	0.0000	0.0000	0.0000	3.54232	3.55690	204.334
R1N2	530	10.1162	-1.8793	23.6969	2.8549	0.0000	0.0000	0.0000	0.0000	3.55507	3.56127	205.034
D100A07	531	11.9424	-2.0856	21.1489	2.6770	0.0000	0.0000	0.0000	0.0000	3.56174	3.56454	205.495
R1N3	532	15.2816	-2.3968	17.8781	2.4087	0.0000	0.0000	0.0000	0.0000	3.56999	3.57027	206.195
D100A06	533	15.5224	-2.4189	17.6382	2.3897	0.0000	0.0000	0.0000	0.0000	3.57050	3.57072	206.245
R1N4	534	19.3782	-2.7256	14.7139	2.1253	0.0000	0.0000	0.0000	0.0000	3.57693	3.57764	206.945
D100A07	535	21.9813	-2.9260	12.8356	1.9526	0.0000	0.0000	0.0000	0.0000	3.58048	3.58297	207.405
R1N5	536	26.6389	-3.2283	10.4520	1.6920	0.0000	0.0000	0.0000	0.0000	3.58509	3.59260	208.105
D100A06	537	26.9628	-3.2497	10.2837	1.6736	0.0000	0.0000	0.0000	0.0000	3.58538	3.59336	208.155
R1N6	538	32.1400	-3.5477	8.2521	1.4167	0.0000	0.0000	0.0000	0.0000	3.58917	3.60547	208.855
D100A07	539	35.4979	-3.7424	7.0243	1.2488	0.0000	0.0000	0.0000	0.0000	3.59134	3.61510	209.316
R1N7	540	41.4811	-4.0362	5.5412	0.9955	0.0000	0.0000	0.0000	0.0000	3.59424	3.63300	210.016
D100A06	541	41.8857	-4.0571	5.4425	0.9776	0.0000	0.0000	0.0000	0.0000	3.59443	3.63445	210.066
R1N8	542	48.3909	-4.3469	4.3161	0.7278	0.0000	0.0000	0.0000	0.0000	3.59691	3.65752	210.766
D100A14	543	54.4251	-4.6234	3.4974	0.4894	0.0000	0.0000	0.0000	0.0000	3.59899	3.68521	211.439
MAT1L24H	544	54.4251	-4.6234	3.4974	0.4894	0.0000	0.0000	0.0000	0.0000	3.59899	3.68521	211.439
D100A15	545	58.1846	-4.7877	3.1629	0.3478	0.0000	0.0000	0.0000	0.0000	3.60012	3.70437	211.838
IPM1L24	546	58.1846	-4.7877	3.1629	0.3478	0.0000	0.0000	0.0000	0.0000	3.60012	3.70437	211.838
D100A22	547	59.9890	-4.8645	3.0453	0.2815	0.0000	0.0000	0.0000	0.0000	3.60063	3.71397	212.025
MQB1L24	548	59.8139	6.0211	3.0509	-0.3195	0.0000	0.0000	0.0000	0.0000	3.60102	3.72184	212.175
D100A05	549	48.2964	5.3926	4.0636	-0.6840	0.0000	0.0000	0.0000	0.0000	3.60401	3.76810	213.184
R1O1	550	41.6620	4.9596	5.2605	-0.9352	0.0000	0.0000	0.0000	0.0000	3.60650	3.79229	213.884
D100A06	551	41.1676	4.9289	5.3549	-0.9530	0.0000	0.0000	0.0000	0.0000	3.60669	3.79379	213.934
R1O2	552	35.0781	4.5017	6.9450	-1.2008	0.0000	0.0000	0.0000	0.0000	3.60962	3.81209	214.634
D100A07	553	31.0598	4.2224	8.1258	-1.3627	0.0000	0.0000	0.0000	0.0000	3.61184	3.82186	215.095
R1O3	554	25.8203	3.8009	10.3269	-1.6072	0.0000	0.0000	0.0000	0.0000	3.61578	3.83403	215.795
D100A06	555	25.4417	3.7710	10.4885	-1.6246	0.0000	0.0000	0.0000	0.0000	3.61609	3.83480	215.845
R1O4	556	20.7557	3.3549	13.0858	-1.8659	0.0000	0.0000	0.0000	0.0000	3.62093	3.84431	216.545
D100A07	557	17.7904	3.0830	14.8773	-2.0236	0.0000	0.0000	0.0000	0.0000	3.62475	3.84957	217.005
R1O5	558	13.9667	2.6723	18.0897	-2.2618	0.0000	0.0000	0.0000	0.0000	3.63182	3.85636	217.705
D100A06	559	13.7009	2.6432	18.3167	-2.2787	0.0000	0.0000	0.0000	0.0000	3.63239	3.85680	217.755
R1O6	560	10.4381	2.2377	21.9277	-2.5138	0.0000	0.0000	0.0000	0.0000	3.64172	3.86236	218.455
D100A07	561	8.4988	1.9726	24.3143	-2.6676	0.0000	0.0000	0.0000	0.0000	3.64950	3.86553	218.916
R1O7	562	6.1093	1.5723	28.5438	-2.8998	0.0000	0.0000	0.0000	0.0000	3.66499	3.86976	219.616
D100A06	563	5.9535	1.5439	28.8346	-2.9163	0.0000	0.0000	0.0000	0.0000	3.66631	3.87004	219.666
R1O8	564	4.1315	1.1485	33.4647	-3.1456	0.0000	0.0000	0.0000	0.0000	3.68885	3.87363	220.366
D100A21	565	2.5287	0.6476	39.3381	-3.4361	0.0000	0.0000	0.0000	0.0000	3.73337	3.87754	221.258
MAT1L25V	566	2.5287	0.6476	39.3381	-3.4361	0.0000	0.0000	0.0000	0.0000	3.73337	3.87754	221.258
D100A18	567	2.3140	0.5467	40.5840	-3.4946	0.0000	0.0000	0.0000	0.0000	3.74520	3.87826	221.438
IPM1L25	568	2.3140	0.5467	40.5840	-3.4946	0.0000	0.0000	0.0000	0.0000	3.74520	3.87826	221.438
D100A22	569	2.1292	0.4418	41.9020	-3.5555	0.0000	0.0000	0.0000	0.0000	3.75862	3.87898	221.625
MQB1L25	570	2.0655	-0.0129	41.8270	4.0509	0.0000	0.0000	0.0000	0.0000	3.77007	3.87955	221.775
D100A05	571	2.5846	-0.5016	34.0752	3.6309	0.0000	0.0000	0.0000	0.0000	3.84200	3.88380	222.784
R1P1	572	3.5603	-0.8385	29.5853	3.3413	0.0000	0.0000	0.0000	0.0000	3.87906	3.88731	223.484
D100A06	573	3.6454	-0.8624	29.2522	3.3208	0.0000	0.0000	0.0000	0.0000	3.88127	3.88758	223.534
R1P2	574	5.1389	-1.1952	25.1331	3.0347	0.0000	0.0000	0.0000	0.0000	3.90713	3.89169	224.234
D100A07	575	6.3401	-1.4128	22.4238	2.8476	0.0000	0.0000	0.0000	0.0000	3.91998	3.89478	224.695
R1P3	576	8.6379	-1.7417	18.8824	2.5649	0.0000	0.0000	0.0000	0.0000	3.93506	3.90019	225.395
D100A06	577	8.8132	-1.7650	18.6269	2.5449	0.0000	0.0000	0.0000	0.0000	3.93597	3.90062	225.445
R1P4	578	11.6326	-2.0899	15.4614	2.2656	0.0000	0.0000	0.0000	0.0000	3.94698	3.90718	226.145
D100A07	579	13.6557	-2.3025	13.4585	2.0629	0.0000	0.0000	0.0000	0.0000	3.95280	3.91227	226.605
R1P5	580	17.2848	-2.6236	10.8781	1.8068	0.0000	0.0000	0.0000	0.0000	3.96005	3.92148	227.305
D100A06	581	17.5483	-2.6464	10.6984	1.7872	0.0000	0.0000	0.0000	0.0000	3.96051	3.92222	227

D100A07	603	17.3084	2.2260	14.4254	-2.0365	0.0000	0.0000	0.0000	0.0000	4.01028	4.18783	236.205
R1Q5	604	14.5300	1.9865	17.6218	-2.2850	0.0000	0.0000	0.0000	0.0000	4.01731	4.19482	236.905
D100A06	605	14.3322	1.9695	17.8512	-2.3026	0.0000	0.0000	0.0000	0.0000	4.01786	4.19527	236.955
R1Q6	606	11.8796	1.7324	21.4548	-2.5485	0.0000	0.0000	0.0000	0.0000	4.02640	4.20097	237.655
D100A07	607	10.3551	1.5773	23.8766	-2.7093	0.0000	0.0000	0.0000	0.0000	4.03302	4.20421	238.116
R1Q7	608	8.4093	1.3427	28.1120	-2.9526	0.0000	0.0000	0.0000	0.0000	4.04497	4.20851	238.816
D100A06	609	8.2759	1.3261	28.4082	-2.9699	0.0000	0.0000	0.0000	0.0000	4.04592	4.20879	238.866
R1Q8	610	6.6593	1.0940	33.0529	-3.2106	0.0000	0.0000	0.0000	0.0000	4.06095	4.21242	239.566
D100A14	611	5.3368	0.8721	37.5271	-3.4407	0.0000	0.0000	0.0000	0.0000	4.07895	4.21546	240.239
MAT1L27H	612	5.3368	0.8721	37.5271	-3.4407	0.0000	0.0000	0.0000	0.0000	4.07895	4.21546	240.239
D100A17	613	4.9695	0.7996	39.0556	-3.5159	0.0000	0.0000	0.0000	0.0000	4.08574	4.21638	240.458
MAT1L27V	614	4.9695	0.7996	39.0556	-3.5159	0.0000	0.0000	0.0000	0.0000	4.08574	4.21638	240.458
D100A18	615	4.6927	0.7403	40.3307	-3.5774	0.0000	0.0000	0.0000	0.0000	4.09166	4.21710	240.638
IPM1L27	616	4.6927	0.7403	40.3307	-3.5774	0.0000	0.0000	0.0000	0.0000	4.09166	4.21710	240.638
D100A22	617	4.4274	0.6786	41.6802	-3.6414	0.0000	0.0000	0.0000	0.0000	4.09819	4.21782	240.825
MQB1L27	618	4.3492	-0.1522	41.6368	3.9277	0.0000	0.0000	0.0000	0.0000	4.10366	4.21839	240.975
D100A23	619	5.9879	-0.6393	27.0629	3.1108	0.0000	0.0000	0.0000	0.0000	4.17015	4.22822	243.046
IPM1L28	620	5.9879	-0.6393	27.0629	3.1108	0.0000	0.0000	0.0000	0.0000	4.17015	4.22822	243.046
D100A24	621	6.2156	-0.6799	26.0004	3.0427	0.0000	0.0000	0.0000	0.0000	4.17466	4.22925	243.218
MQB1L28	622	6.2536	0.4291	25.7937	-1.6522	0.0000	0.0000	0.0000	0.0000	4.17847	4.23018	243.368
D100A25	623	6.0131	0.3723	26.7980	-1.6956	0.0000	0.0000	0.0000	0.0000	4.18626	4.23200	243.668

MAXIMUM LATTICE FUNCTIONS :
 BETA X = 0.6892317363E+02 BETA Y = 0.4246155655E+02
 ETA X = 0.0000000000E+00 ETA Y = 0.0000000000E+00

1
 OPERATION LIST ,

MATRIX

1 -1,

AFTER :D100A25 ELEMENT #: 623

 * TRANSFORMATION MATRIX *

FIRST ORDER MATRIX

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- -0.2700197E+00  0.4476496E+01  0.0000000E+00  0.0000000E+00  0.0000000E+00  0.0000000E+00
- -0.2486017E-01  0.3801416E-01  0.0000000E+00  0.0000000E+00  0.0000000E+00  0.0000000E+00
- 0.0000000E+00  0.0000000E+00  0.5900789E+00  0.3037895E+01  0.0000000E+00  0.0000000E+00
- 0.0000000E+00  0.0000000E+00  0.6582873E-02  0.2050912E+00  0.0000000E+00  0.0000000E+00
- 0.0000000E+00  0.0000000E+00  0.0000000E+00  0.0000000E+00  0.1000000E+01  0.0000000E+00
- 0.0000000E+00  0.0000000E+00  0.0000000E+00  0.0000000E+00  0.0000000E+00  0.1010219E+00
  
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HORIZONTAL MOVEMENT ANALYSIS

COMPACTION FACTOR = 0.0000000E+00 GAMMA TR = 0.0000000E+00

COS(MU)=-0.11600275883074E+00 NU = 0.26850407225337E+00
 ETA = 0.000000000000000E+00 ETAP = 0.000000000000000E+00
 ALPHA =-0.15506377036557E+00 BETA = 0.45069229397901E+01

VERTICAL MOVEMENT ANALYSIS

COS(MU) = 0.39758503967864E+00 NU = 0.18492418277844E+00
 ETA = 0.000000000000000E+00 ETAP = 0.000000000000000E+00
 ALPHA = 0.20978762428071E+00 BETA = 0.33108216006215E+01

1
 OPERATION LIST ,

HARDWARE

0.122489 0 80.6 100 -153.115 0 0.0 0 1 0;

VALUES ARE FOR ENERGY : 0.122E+00 GEV

THE LENGTHS ARE MEASURED IN METERS ,THE ANGLES IN DEGREES

THE SKYZ COORDINATES,AZIMUTH,ELEVATION AND ROLL ANGLES ARE :

#	NAME	S	X	Y	Z	THETA	PHI	PSI
1	D10000	0.1194600000	80.6000000000	100.0000000000	-152.9955400000	0.0000000000	0.0000000000	0.0000000000
2	ITV1L02	0.1194600000	80.6000000000	100.0000000000	-152.9955400000	0.0000000000	0.0000000000	0.0000000000
3	D10001	0.2388400000	80.6000000000	100.0000000000	-152.8761600000	0.0000000000	0.0000000000	0.0000000000
4	MAT1L02H	0.2388400100	80.6000000000	100.0000000000	-152.8761599900	0.0000000000	0.0000000000	0.0000000000
5	D10002	0.4585500100	80.6000000000	100.0000000000	-152.6564499900	0.0000000000	0.0000000000	0.0000000000
6	MAT1L02V	0.4585500200	80.6000000000	100.0000000000	-152.6564499800	0.0000000000	0.0000000000	0.0000000000
7	D10003	0.6523500200	80.6000000000	100.0000000000	-152.4626499800	0.0000000000	0.0000000000	0.0000000000
8	IPM1L02	0.6523500200	80.6000000000	100.0000000000	-152.4626499800	0.0000000000	0.0000000000	0.0000000000
9	D10004	0.8250400200	80.6000000000	100.0000000000	-152.2899599800	0.0000000000	0.0000000000	0.0000000000
10	MQB1L02	0.9750400200	80.6000000000	100.0000000000	-152.1399599800	0.0000000000	0.0000000000	0.0000000000
11	D10005	2.0841400200	80.6000000000	100.0000000000	-151.0308599800	0.0000000000	0.0000000000	0.0000000000
12	R121	2.5841400200	80.6000000000	100.0000000000	-150.5308599800	0.0000000000	0.0000000000	0.0000000000
13	D10006	2.8341400200	80.6000000000	100.0000000000	-150.2808599800	0.0000000000	0.0000000000	0.0000000000
14	R122	3.3341400200	80.6000000000	100.0000000000	-149.7808599800	0.0000000000	0.0000000000	0.0000000000

119	D10006	45.0553400600	80.6000000000	100.0000000000	-108.0596599400	0.0000000000	0.0000000000	0.0000000000
120	R166	45.5553400600	80.6000000000	100.0000000000	-107.5596599400	0.0000000000	0.0000000000	0.0000000000
121	D10007	46.2159400600	80.6000000000	100.0000000000	-106.8990599400	0.0000000000	0.0000000000	0.0000000000
122	R167	46.7159400600	80.6000000000	100.0000000000	-106.3990599400	0.0000000000	0.0000000000	0.0000000000
123	D10006	46.9659400600	80.6000000000	100.0000000000	-106.1490599400	0.0000000000	0.0000000000	0.0000000000
124	R168	47.4659400600	80.6000000000	100.0000000000	-105.6490599400	0.0000000000	0.0000000000	0.0000000000
125	D10008	48.4585900600	80.6000000000	100.0000000000	-104.6564099400	0.0000000000	0.0000000000	0.0000000000
126	MATL107V	48.4585900700	80.6000000000	100.0000000000	-104.6564099300	0.0000000000	0.0000000000	0.0000000000
127	D10003	48.6523900700	80.6000000000	100.0000000000	-104.4626099300	0.0000000000	0.0000000000	0.0000000000
128	IPM1L07	48.6523900700	80.6000000000	100.0000000000	-104.4626099300	0.0000000000	0.0000000000	0.0000000000
129	D10009	48.6550400700	80.6000000000	100.0000000000	-104.4599599300	0.0000000000	0.0000000000	0.0000000000
130	MQSNL	48.7250400700	80.6000000000	100.0000000000	-104.3899599300	0.0000000000	0.0000000000	0.0000000000
131	D10010	48.8250400700	80.6000000000	100.0000000000	-104.2899599300	0.0000000000	0.0000000000	0.0000000000
132	MQBL107	48.9750400700	80.6000000000	100.0000000000	-104.1399599300	0.0000000000	0.0000000000	0.0000000000
133	D10005	50.0841400700	80.6000000000	100.0000000000	-103.0308599300	0.0000000000	0.0000000000	0.0000000000
134	R171	50.5841400700	80.6000000000	100.0000000000	-102.5308599300	0.0000000000	0.0000000000	0.0000000000
135	D10006	50.8341400700	80.6000000000	100.0000000000	-102.2808599300	0.0000000000	0.0000000000	0.0000000000
136	R172	51.3341400700	80.6000000000	100.0000000000	-101.7808599300	0.0000000000	0.0000000000	0.0000000000
137	D10007	51.9947400700	80.6000000000	100.0000000000	-101.1202599300	0.0000000000	0.0000000000	0.0000000000
138	R173	52.4947400700	80.6000000000	100.0000000000	-100.6202599300	0.0000000000	0.0000000000	0.0000000000
139	D10006	52.7447400700	80.6000000000	100.0000000000	-100.3702599300	0.0000000000	0.0000000000	0.0000000000
140	R174	53.2447400700	80.6000000000	100.0000000000	-99.8702599300	0.0000000000	0.0000000000	0.0000000000
141	D10007	53.9053400700	80.6000000000	100.0000000000	-99.2096599300	0.0000000000	0.0000000000	0.0000000000
142	R175	54.4053400700	80.6000000000	100.0000000000	-98.7096599300	0.0000000000	0.0000000000	0.0000000000
143	D10006	54.6553400700	80.6000000000	100.0000000000	-98.4596599300	0.0000000000	0.0000000000	0.0000000000
144	R176	55.1553400700	80.6000000000	100.0000000000	-97.9596599300	0.0000000000	0.0000000000	0.0000000000
145	D10007	55.8159400700	80.6000000000	100.0000000000	-97.2990599300	0.0000000000	0.0000000000	0.0000000000
146	R177	56.3159400700	80.6000000000	100.0000000000	-96.7990599300	0.0000000000	0.0000000000	0.0000000000
147	D10006	56.5659400700	80.6000000000	100.0000000000	-96.5490599300	0.0000000000	0.0000000000	0.0000000000
148	R178	57.0659400700	80.6000000000	100.0000000000	-96.0490599300	0.0000000000	0.0000000000	0.0000000000
149	D10014	57.8386190700	80.6000000000	100.0000000000	-95.2763809300	0.0000000000	0.0000000000	0.0000000000
150	MATL108H	57.8386190800	80.6000000000	100.0000000000	-95.2763809200	0.0000000000	0.0000000000	0.0000000000
151	D10015	58.2380920800	80.6000000000	100.0000000000	-94.8769079200	0.0000000000	0.0000000000	0.0000000000
152	IPM1L08	58.2380920800	80.6000000000	100.0000000000	-94.8769079200	0.0000000000	0.0000000000	0.0000000000
153	D10016	58.2550400800	80.6000000000	100.0000000000	-94.8599599200	0.0000000000	0.0000000000	0.0000000000
154	MQSNL	58.3250400800	80.6000000000	100.0000000000	-94.7899599200	0.0000000000	0.0000000000	0.0000000000
155	D10010	58.4250400800	80.6000000000	100.0000000000	-94.6899599200	0.0000000000	0.0000000000	0.0000000000
156	MQBL108	58.5750400800	80.6000000000	100.0000000000	-94.5399599200	0.0000000000	0.0000000000	0.0000000000
157	D10005	59.6841400800	80.6000000000	100.0000000000	-93.4308599200	0.0000000000	0.0000000000	0.0000000000
158	R181	60.1841400800	80.6000000000	100.0000000000	-92.9308599200	0.0000000000	0.0000000000	0.0000000000
159	D10006	60.4341400800	80.6000000000	100.0000000000	-92.6808599200	0.0000000000	0.0000000000	0.0000000000
160	R182	60.9341400800	80.6000000000	100.0000000000	-92.1808599200	0.0000000000	0.0000000000	0.0000000000
161	D10007	61.5947400800	80.6000000000	100.0000000000	-91.5202599200	0.0000000000	0.0000000000	0.0000000000
162	R183	62.0947400800	80.6000000000	100.0000000000	-91.0202599200	0.0000000000	0.0000000000	0.0000000000
163	D10006	62.3447400800	80.6000000000	100.0000000000	-90.7702599200	0.0000000000	0.0000000000	0.0000000000
164	R184	62.8447400800	80.6000000000	100.0000000000	-90.2702599200	0.0000000000	0.0000000000	0.0000000000
165	D10007	63.5053400800	80.6000000000	100.0000000000	-89.6096599200	0.0000000000	0.0000000000	0.0000000000
166	R185	64.0053400800	80.6000000000	100.0000000000	-89.1096599200	0.0000000000	0.0000000000	0.0000000000
167	D10006	64.2553400800	80.6000000000	100.0000000000	-88.8596599200	0.0000000000	0.0000000000	0.0000000000
168	R186	64.7553400800	80.6000000000	100.0000000000	-88.3596599200	0.0000000000	0.0000000000	0.0000000000
169	D10007	65.4159400800	80.6000000000	100.0000000000	-87.6990599200	0.0000000000	0.0000000000	0.0000000000
170	R187	65.9159400800	80.6000000000	100.0000000000	-87.1990599200	0.0000000000	0.0000000000	0.0000000000
171	D10006	66.1659400800	80.6000000000	100.0000000000	-86.9490599200	0.0000000000	0.0000000000	0.0000000000
172	R188	66.6659400800	80.6000000000	100.0000000000	-86.4490599200	0.0000000000	0.0000000000	0.0000000000
173	D10014	67.4386190800	80.6000000000	100.0000000000	-85.6763809200	0.0000000000	0.0000000000	0.0000000000
174	MBTL109H	67.4386190900	80.6000000000	100.0000000000	-85.6763809100	0.0000000000	0.0000000000	0.0000000000
175	D10017	67.6583310900	80.6000000000	100.0000000000	-85.4566689100	0.0000000000	0.0000000000	0.0000000000
176	MATL109V	67.6583310900	80.6000000000	100.0000000000	-85.4566689000	0.0000000000	0.0000000000	0.0000000000
177	D10018	67.8380921000	80.6000000000	100.0000000000	-85.2769079000	0.0000000000	0.0000000000	0.0000000000
178	IPM1L09	67.8380921000	80.6000000000	100.0000000000	-85.2769079000	0.0000000000	0.0000000000	0.0000000000
179	D10016	67.8550401000	80.6000000000	100.0000000000	-85.2599599000	0.0000000000	0.0000000000	0.0000000000
180	MQSNL	67.9250401000	80.6000000000	100.0000000000	-85.1899599000	0.0000000000	0.0000000000	0.0000000000
181	D10010	68.0250401000	80.6000000000	100.0000000000	-85.0899599000	0.0000000000	0.0000000000	0.0000000000
182	MQBL109	68.1750401000	80.6000000000	100.0000000000	-84.9399599000	0.0000000000	0.0000000000	0.0000000000
183	D10005	69.2841401000	80.6000000000	100.0000000000	-83.8308599000	0.0000000000	0.0000000000	0.0000000000
184	R191	69.7841401000	80.6000000000	100.0000000000	-83.3308599000	0.0000000000	0.0000000000	0.0000000000
185	D10006	70.0341401000	80.6000000000	100.0000000000	-83.0808599000	0.0000000000	0.0000000000	0.0000000000
186	R192	70.5341401000	80.6000000000	100.0000000000	-82.5808599000	0.0000000000	0.0000000000	0.0000000000
187	D10007	71.1947401000	80.6000000000	100.0000000000	-81.9202599000	0.0000000000	0.0000000000	0.0000000000
188	R193	71.6947401000	80.6000000000	100.0000000000	-81.4202599000	0.0000000000	0.0000000000	0.0000000000
189	D10006	71.9447401000	80.6000000000	100.0000000000	-81.1702599000	0.0000000000	0.0000000000	0.0000000000
190	R194	72.4447401000	80.6000000000	100.0000000000	-80.6702599000	0.0000000000	0.0000000000	0.0000000000
191	D10007	73.1053401000	80.6000000000	100.0000000000	-80.0096599000	0.0000000000	0.0000000000	0.0000000000
192	R195	73.6053401000	80.6000000000	100.0000000000	-79.5096599000	0.0000000000	0.0000000000	0.0000000000
193	D10006	73.8553401000	80.6000000000	100.0000000000	-79.2596599000	0.0000000000	0.0000000000	0.0000000000
194	R196	74.3553401000	80.6000000000	100.0000000000	-78.7596599000	0.0000000000	0.0000000000	0.0000000000
195	D10007	75.0159401000	80.6000000000	100.0000000000	-78.0990599000	0.0000000000	0.0000000000	0.0000000000
196	R197	75.5159401000	80.6000000000	100.0000000000	-77.5990599000	0.0000000000	0.0000000000	0.0000000000
197	D10006	75.7659401000	80.6000000000	100.0000000000	-77.3490599000	0.0000000000	0.0000000000	0.0000000000
198	R198	76.2659401000	80.6000000000	100.0000000000	-76.8490599000	0.0000000000	0.0000000000	0.0000000000
199	D10019	76.9210211000	80.6000000000	100.0000000000	-76.1939789000	0.0000000000	0.0000000000	0.0000000000
200	ITV1L10	76.9210211000	80.6000000000	100.0000000000	-76.1939789000	0.0000000000	0.0000000000	0.0000000000
201	D10020	77.0386191000	80.6000000000	100.0000000000	-76.0763809000	0.0000000000	0.0000000000	0.0000000000
202	MATL110H	77.0386191100	80.6000000000	100.0000000000	-76.0763808900	0.0000000000	0.00	

223	D10006	85.3659401100	80.6000000000	100.0000000000	-67.7490598900	0.0000000000	0.0000000000	0.0000000000
224	RIA8	85.8659401100	80.6000000000	100.0000000000	-67.2490598900	0.0000000000	0.0000000000	0.0000000000
225	D10014	86.6386191100	80.6000000000	100.0000000000	-66.4763808900	0.0000000000	0.0000000000	0.0000000000
226	MBTLL1LH	86.6386191200	80.6000000000	100.0000000000	-66.4763808800	0.0000000000	0.0000000000	0.0000000000
227	D10017	86.8583311200	80.6000000000	100.0000000000	-66.2566688800	0.0000000000	0.0000000000	0.0000000000
228	MATLL1LV	86.8583311300	80.6000000000	100.0000000000	-66.2566688700	0.0000000000	0.0000000000	0.0000000000
229	D10018	87.0380921300	80.6000000000	100.0000000000	-66.0769078700	0.0000000000	0.0000000000	0.0000000000
230	IPMILL1	87.0380921300	80.6000000000	100.0000000000	-66.0769078700	0.0000000000	0.0000000000	0.0000000000
231	D10016	87.0550401300	80.6000000000	100.0000000000	-66.0599598700	0.0000000000	0.0000000000	0.0000000000
232	MQSNL	87.1250401300	80.6000000000	100.0000000000	-65.9899598700	0.0000000000	0.0000000000	0.0000000000
233	D10010	87.2250401300	80.6000000000	100.0000000000	-65.8899598700	0.0000000000	0.0000000000	0.0000000000
234	MQBLL1L	87.3750401300	80.6000000000	100.0000000000	-65.7399598700	0.0000000000	0.0000000000	0.0000000000
235	D10005	88.4841401300	80.6000000000	100.0000000000	-64.6308598700	0.0000000000	0.0000000000	0.0000000000
236	RLB1	88.9841401300	80.6000000000	100.0000000000	-64.1308598700	0.0000000000	0.0000000000	0.0000000000
237	D10006	89.2341401300	80.6000000000	100.0000000000	-63.8808598700	0.0000000000	0.0000000000	0.0000000000
238	RLB2	89.7341401300	80.6000000000	100.0000000000	-63.3808598700	0.0000000000	0.0000000000	0.0000000000
239	D10007	90.3947401300	80.6000000000	100.0000000000	-62.7202598700	0.0000000000	0.0000000000	0.0000000000
240	RLB3	90.8947401300	80.6000000000	100.0000000000	-62.2202598700	0.0000000000	0.0000000000	0.0000000000
241	D10006	91.1447401300	80.6000000000	100.0000000000	-61.9702598700	0.0000000000	0.0000000000	0.0000000000
242	RLB4	91.6447401300	80.6000000000	100.0000000000	-61.4702598700	0.0000000000	0.0000000000	0.0000000000
243	D10007	92.3053401300	80.6000000000	100.0000000000	-60.8096598700	0.0000000000	0.0000000000	0.0000000000
244	RLB5	92.8053401300	80.6000000000	100.0000000000	-60.3096598700	0.0000000000	0.0000000000	0.0000000000
245	D10006	93.0553401300	80.6000000000	100.0000000000	-60.0596598700	0.0000000000	0.0000000000	0.0000000000
246	RLB6	93.5553401300	80.6000000000	100.0000000000	-59.5596598700	0.0000000000	0.0000000000	0.0000000000
247	D10007	94.2159401300	80.6000000000	100.0000000000	-58.8990598700	0.0000000000	0.0000000000	0.0000000000
248	RLB7	94.7159401300	80.6000000000	100.0000000000	-58.3990598700	0.0000000000	0.0000000000	0.0000000000
249	D10006	94.9659401300	80.6000000000	100.0000000000	-58.1490598700	0.0000000000	0.0000000000	0.0000000000
250	RLB8	95.4659401300	80.6000000000	100.0000000000	-57.6490598700	0.0000000000	0.0000000000	0.0000000000
251	D10014	96.2386191300	80.6000000000	100.0000000000	-56.8763808700	0.0000000000	0.0000000000	0.0000000000
252	MATLL1LH	96.2386191400	80.6000000000	100.0000000000	-56.8763808600	0.0000000000	0.0000000000	0.0000000000
253	D10015	96.6380921400	80.6000000000	100.0000000000	-56.4769078600	0.0000000000	0.0000000000	0.0000000000
254	IPMILL2	96.6380921400	80.6000000000	100.0000000000	-56.4769078600	0.0000000000	0.0000000000	0.0000000000
255	D10016	96.6550401400	80.6000000000	100.0000000000	-56.4599598600	0.0000000000	0.0000000000	0.0000000000
256	MQSNL	96.7250401400	80.6000000000	100.0000000000	-56.3899598600	0.0000000000	0.0000000000	0.0000000000
257	D10010	96.8250401400	80.6000000000	100.0000000000	-56.2899598600	0.0000000000	0.0000000000	0.0000000000
258	MQBLL1L	96.9750401400	80.6000000000	100.0000000000	-56.1399598600	0.0000000000	0.0000000000	0.0000000000
259	D10005	98.0841401400	80.6000000000	100.0000000000	-55.0308598600	0.0000000000	0.0000000000	0.0000000000
260	RLC1	98.5841401400	80.6000000000	100.0000000000	-54.5308598600	0.0000000000	0.0000000000	0.0000000000
261	D10006	98.8341401400	80.6000000000	100.0000000000	-54.2808598600	0.0000000000	0.0000000000	0.0000000000
262	RLC2	99.3341401400	80.6000000000	100.0000000000	-53.7808598600	0.0000000000	0.0000000000	0.0000000000
263	D10007	99.9947401400	80.6000000000	100.0000000000	-53.1202598600	0.0000000000	0.0000000000	0.0000000000
264	RLC3	100.4947401400	80.6000000000	100.0000000000	-52.6202598600	0.0000000000	0.0000000000	0.0000000000
265	D10006	100.7447401400	80.6000000000	100.0000000000	-52.3702598600	0.0000000000	0.0000000000	0.0000000000
266	RLC4	101.2447401400	80.6000000000	100.0000000000	-51.8702598600	0.0000000000	0.0000000000	0.0000000000
267	D10007	101.9053401400	80.6000000000	100.0000000000	-51.2096598600	0.0000000000	0.0000000000	0.0000000000
268	RLC5	102.4053401400	80.6000000000	100.0000000000	-50.7096598600	0.0000000000	0.0000000000	0.0000000000
269	D10006	102.6553401400	80.6000000000	100.0000000000	-50.4596598600	0.0000000000	0.0000000000	0.0000000000
270	RLC6	103.1553401400	80.6000000000	100.0000000000	-49.9596598600	0.0000000000	0.0000000000	0.0000000000
271	D10007	103.8159401400	80.6000000000	100.0000000000	-49.2990598600	0.0000000000	0.0000000000	0.0000000000
272	RLC7	104.3159401400	80.6000000000	100.0000000000	-48.7990598600	0.0000000000	0.0000000000	0.0000000000
273	D10006	104.5659401400	80.6000000000	100.0000000000	-48.5490598600	0.0000000000	0.0000000000	0.0000000000
274	RLC8	105.0659401400	80.6000000000	100.0000000000	-48.0490598600	0.0000000000	0.0000000000	0.0000000000
275	D10014	105.8386191400	80.6000000000	100.0000000000	-47.2763808600	0.0000000000	0.0000000000	0.0000000000
276	MBTLL1LH	105.8386191500	80.6000000000	100.0000000000	-47.2763808500	0.0000000000	0.0000000000	0.0000000000
277	D10017	106.0583311500	80.6000000000	100.0000000000	-47.0566688500	0.0000000000	0.0000000000	0.0000000000
278	MATLL1LV	106.0583311600	80.6000000000	100.0000000000	-47.0566688400	0.0000000000	0.0000000000	0.0000000000
279	D10018	106.2380921600	80.6000000000	100.0000000000	-46.8769078400	0.0000000000	0.0000000000	0.0000000000
280	IPMILL3	106.2380921600	80.6000000000	100.0000000000	-46.8769078400	0.0000000000	0.0000000000	0.0000000000
281	D10016	106.2550401600	80.6000000000	100.0000000000	-46.8599598400	0.0000000000	0.0000000000	0.0000000000
282	MQSNL	106.3250401600	80.6000000000	100.0000000000	-46.7899598400	0.0000000000	0.0000000000	0.0000000000
283	D10010	106.4250401600	80.6000000000	100.0000000000	-46.6899598400	0.0000000000	0.0000000000	0.0000000000
284	MQBLL1L	106.5750401600	80.6000000000	100.0000000000	-46.5399598400	0.0000000000	0.0000000000	0.0000000000
285	D10005	107.6841401600	80.6000000000	100.0000000000	-45.4308598400	0.0000000000	0.0000000000	0.0000000000
286	RLD1	108.1841401600	80.6000000000	100.0000000000	-44.9308598400	0.0000000000	0.0000000000	0.0000000000
287	D10006	108.4341401600	80.6000000000	100.0000000000	-44.6808598400	0.0000000000	0.0000000000	0.0000000000
288	RLD2	108.9341401600	80.6000000000	100.0000000000	-44.1808598400	0.0000000000	0.0000000000	0.0000000000
289	D10007	109.5947401600	80.6000000000	100.0000000000	-43.5202598400	0.0000000000	0.0000000000	0.0000000000
290	RLD3	110.0947401600	80.6000000000	100.0000000000	-43.0202598400	0.0000000000	0.0000000000	0.0000000000
291	D10006	110.3447401600	80.6000000000	100.0000000000	-42.7702598400	0.0000000000	0.0000000000	0.0000000000
292	RLD4	110.8447401600	80.6000000000	100.0000000000	-42.2702598400	0.0000000000	0.0000000000	0.0000000000
293	D10007	111.5053401600	80.6000000000	100.0000000000	-41.6096598400	0.0000000000	0.0000000000	0.0000000000
294	RLD5	112.0053401600	80.6000000000	100.0000000000	-41.1096598400	0.0000000000	0.0000000000	0.0000000000
295	D10006	112.2553401600	80.6000000000	100.0000000000	-40.8596598400	0.0000000000	0.0000000000	0.0000000000
296	RLD6	112.7553401600	80.6000000000	100.0000000000	-40.3596598400	0.0000000000	0.0000000000	0.0000000000
297	D10007	113.4159401600	80.6000000000	100.0000000000	-39.6990598400	0.0000000000	0.0000000000	0.0000000000
298	RLD7	113.9159401600	80.6000000000	100.0000000000	-39.1990598400	0.0000000000	0.0000000000	0.0000000000
299	D10006	114.1659401600	80.6000000000	100.0000000000	-38.9490598400	0.0000000000	0.0000000000	0.0000000000
300	RLD8	114.6659401600	80.6000000000	100.0000000000	-38.4490598400	0.0000000000	0.0000000000	0.0000000000
301	D10019	115.3210211600	80.6000000000	100.0000000000	-37.7939788400	0.0000000000	0.0000000000	0.0000000000
302	ITVLL14	115.3210211600	80.6000000000	100.0000000000	-37.7939788400	0.0000000000	0.0000000000	0.0000000000
303	D10020	115.4386191600	80.6000000000	100.0000000000	-37.6763808400	0.0000000000	0.0000000000	0.0000000000
304	MATLL1LH	115.4386191700	80.6000000000	100.0000000000	-37.6763808300	0.0000000000	0.0000000000	0.0000000000
305	D10015	115.8380921700	80.6000000000	100.0000000000	-37.2769078300	0.0000000000	0.0000000000	0.0000000000
306	IPMILL4	115.8380921700	80.6000000000	100.0000000000	-37.2769078300	0.0000000		

327	D10021	125.2583311700	80.6000000000	100.0000000000	-27.8566688300	0.0000000000	0.0000000000	0.0000000000
328	MATLL15V	125.2583311800	80.6000000000	100.0000000000	-27.8566688200	0.0000000000	0.0000000000	0.0000000000
329	D10018	125.4380921800	80.6000000000	100.0000000000	-27.6769078200	0.0000000000	0.0000000000	0.0000000000
330	IPMILL15	125.4380921800	80.6000000000	100.0000000000	-27.6769078200	0.0000000000	0.0000000000	0.0000000000
331	D10016	125.4550401800	80.6000000000	100.0000000000	-27.6599598200	0.0000000000	0.0000000000	0.0000000000
332	MQSNL	125.5250401800	80.6000000000	100.0000000000	-27.5899598200	0.0000000000	0.0000000000	0.0000000000
333	D10010	125.6250401800	80.6000000000	100.0000000000	-27.4899598200	0.0000000000	0.0000000000	0.0000000000
334	MQBLL15	125.7750401800	80.6000000000	100.0000000000	-27.3399598200	0.0000000000	0.0000000000	0.0000000000
335	D10005	126.8841401800	80.6000000000	100.0000000000	-26.2308598200	0.0000000000	0.0000000000	0.0000000000
336	RI1F1	127.3841401800	80.6000000000	100.0000000000	-25.7308598200	0.0000000000	0.0000000000	0.0000000000
337	D10006	127.6341401800	80.6000000000	100.0000000000	-25.4808598200	0.0000000000	0.0000000000	0.0000000000
338	RI1F2	128.1341401800	80.6000000000	100.0000000000	-24.9808598200	0.0000000000	0.0000000000	0.0000000000
339	D10007	128.7947401800	80.6000000000	100.0000000000	-24.3202598200	0.0000000000	0.0000000000	0.0000000000
340	RI1F3	129.2947401800	80.6000000000	100.0000000000	-23.8202598200	0.0000000000	0.0000000000	0.0000000000
341	D10006	129.5447401800	80.6000000000	100.0000000000	-23.5702598200	0.0000000000	0.0000000000	0.0000000000
342	RI1F4	130.0447401800	80.6000000000	100.0000000000	-23.0702598200	0.0000000000	0.0000000000	0.0000000000
343	D10007	130.7053401800	80.6000000000	100.0000000000	-22.4096598200	0.0000000000	0.0000000000	0.0000000000
344	RI1F5	131.2053401800	80.6000000000	100.0000000000	-21.9096598200	0.0000000000	0.0000000000	0.0000000000
345	D10006	131.4553401800	80.6000000000	100.0000000000	-21.9596598200	0.0000000000	0.0000000000	0.0000000000
346	RI1F6	131.9553401800	80.6000000000	100.0000000000	-21.1596598200	0.0000000000	0.0000000000	0.0000000000
347	D10007	132.6159401800	80.6000000000	100.0000000000	-20.4990598200	0.0000000000	0.0000000000	0.0000000000
348	RI1F7	133.1159401800	80.6000000000	100.0000000000	-19.9990598200	0.0000000000	0.0000000000	0.0000000000
349	D10006	133.3659401800	80.6000000000	100.0000000000	-19.7490598200	0.0000000000	0.0000000000	0.0000000000
350	RI1F8	133.8659401800	80.6000000000	100.0000000000	-19.2490598200	0.0000000000	0.0000000000	0.0000000000
351	D10014	134.6386191800	80.6000000000	100.0000000000	-18.4763808200	0.0000000000	0.0000000000	0.0000000000
352	MATLL16H	134.6386191900	80.6000000000	100.0000000000	-18.4763808100	0.0000000000	0.0000000000	0.0000000000
353	D10015	135.0380921900	80.6000000000	100.0000000000	-18.0769078100	0.0000000000	0.0000000000	0.0000000000
354	IPMILL16	135.0380921900	80.6000000000	100.0000000000	-18.0769078100	0.0000000000	0.0000000000	0.0000000000
355	D10016	135.0550401900	80.6000000000	100.0000000000	-18.0599598100	0.0000000000	0.0000000000	0.0000000000
356	MQSNL	135.1250401900	80.6000000000	100.0000000000	-17.9899598100	0.0000000000	0.0000000000	0.0000000000
357	D10010	135.2250401900	80.6000000000	100.0000000000	-17.8899598100	0.0000000000	0.0000000000	0.0000000000
358	MQBLL16	135.3750401900	80.6000000000	100.0000000000	-17.7399598100	0.0000000000	0.0000000000	0.0000000000
359	D10005	136.4841401900	80.6000000000	100.0000000000	-16.6308598100	0.0000000000	0.0000000000	0.0000000000
360	RI1G1	136.9841401900	80.6000000000	100.0000000000	-16.1308598100	0.0000000000	0.0000000000	0.0000000000
361	D10006	137.2341401900	80.6000000000	100.0000000000	-15.8808598100	0.0000000000	0.0000000000	0.0000000000
362	RI1G2	137.7341401900	80.6000000000	100.0000000000	-15.3808598100	0.0000000000	0.0000000000	0.0000000000
363	D10007	138.3947401900	80.6000000000	100.0000000000	-14.7202598100	0.0000000000	0.0000000000	0.0000000000
364	RI1G3	138.8947401900	80.6000000000	100.0000000000	-14.2202598100	0.0000000000	0.0000000000	0.0000000000
365	D10006	139.1447401900	80.6000000000	100.0000000000	-13.9702598100	0.0000000000	0.0000000000	0.0000000000
366	RI1G4	139.6447401900	80.6000000000	100.0000000000	-13.4702598100	0.0000000000	0.0000000000	0.0000000000
367	D10007	140.3053401900	80.6000000000	100.0000000000	-12.8096598100	0.0000000000	0.0000000000	0.0000000000
368	RI1G5	140.8053401900	80.6000000000	100.0000000000	-12.3096598100	0.0000000000	0.0000000000	0.0000000000
369	D10006	141.0553401900	80.6000000000	100.0000000000	-12.0596598100	0.0000000000	0.0000000000	0.0000000000
370	RI1G6	141.5553401900	80.6000000000	100.0000000000	-11.5596598100	0.0000000000	0.0000000000	0.0000000000
371	D10007	142.2159401900	80.6000000000	100.0000000000	-10.8990598100	0.0000000000	0.0000000000	0.0000000000
372	RI1G7	142.7159401900	80.6000000000	100.0000000000	-10.3990598100	0.0000000000	0.0000000000	0.0000000000
373	D10006	142.9659401900	80.6000000000	100.0000000000	-10.1490598100	0.0000000000	0.0000000000	0.0000000000
374	RI1G8	143.4659401900	80.6000000000	100.0000000000	-9.6490598100	0.0000000000	0.0000000000	0.0000000000
375	D10021	144.4583311900	80.6000000000	100.0000000000	-8.6566688100	0.0000000000	0.0000000000	0.0000000000
376	MATLL17V	144.4583312000	80.6000000000	100.0000000000	-8.6566688000	0.0000000000	0.0000000000	0.0000000000
377	D10018	144.6380922000	80.6000000000	100.0000000000	-8.4769078000	0.0000000000	0.0000000000	0.0000000000
378	IPMILL17	144.6380922000	80.6000000000	100.0000000000	-8.4769078000	0.0000000000	0.0000000000	0.0000000000
379	D10016	144.6550402000	80.6000000000	100.0000000000	-8.4599598000	0.0000000000	0.0000000000	0.0000000000
380	MQSNL	144.7250402000	80.6000000000	100.0000000000	-8.3899598000	0.0000000000	0.0000000000	0.0000000000
381	D10010	144.8250402000	80.6000000000	100.0000000000	-8.2899598000	0.0000000000	0.0000000000	0.0000000000
382	MQBLL17	144.9750402000	80.6000000000	100.0000000000	-8.1399598000	0.0000000000	0.0000000000	0.0000000000
383	D10005	146.0841402000	80.6000000000	100.0000000000	-7.0308598000	0.0000000000	0.0000000000	0.0000000000
384	RI1H1	146.5841402000	80.6000000000	100.0000000000	-6.5308598000	0.0000000000	0.0000000000	0.0000000000
385	D10006	146.8341402000	80.6000000000	100.0000000000	-6.2808598000	0.0000000000	0.0000000000	0.0000000000
386	RI1H2	147.3341402000	80.6000000000	100.0000000000	-5.7808598000	0.0000000000	0.0000000000	0.0000000000
387	D10007	147.9947402000	80.6000000000	100.0000000000	-5.1202598000	0.0000000000	0.0000000000	0.0000000000
388	RI1H3	148.4947402000	80.6000000000	100.0000000000	-4.6202598000	0.0000000000	0.0000000000	0.0000000000
389	D10006	148.7447402000	80.6000000000	100.0000000000	-4.3702598000	0.0000000000	0.0000000000	0.0000000000
390	RI1H4	149.2447402000	80.6000000000	100.0000000000	-3.8702598000	0.0000000000	0.0000000000	0.0000000000
391	D10007	149.9053402000	80.6000000000	100.0000000000	-3.2096598000	0.0000000000	0.0000000000	0.0000000000
392	RI1H5	150.4053402000	80.6000000000	100.0000000000	-2.7096598000	0.0000000000	0.0000000000	0.0000000000
393	D10006	150.6553402000	80.6000000000	100.0000000000	-2.4596598000	0.0000000000	0.0000000000	0.0000000000
394	RI1H6	151.1553402000	80.6000000000	100.0000000000	-1.9596598000	0.0000000000	0.0000000000	0.0000000000
395	D10007	151.8159402000	80.6000000000	100.0000000000	-1.2990598000	0.0000000000	0.0000000000	0.0000000000
396	RI1H7	152.3159402000	80.6000000000	100.0000000000	-0.7990598000	0.0000000000	0.0000000000	0.0000000000
397	D10006	152.5659402000	80.6000000000	100.0000000000	-0.5490598000	0.0000000000	0.0000000000	0.0000000000
398	RI1H8	153.0659402000	80.6000000000	100.0000000000	-0.0490598000	0.0000000000	0.0000000000	0.0000000000
399	D10019	153.7210212000	80.6000000000	100.0000000000	0.06060212000	0.0000000000	0.0000000000	0.0000000000
400	ITVLL18	153.7210212000	80.6000000000	100.0000000000	0.06060212000	0.0000000000	0.0000000000	0.0000000000
401	D10020	153.8386192000	80.6000000000	100.0000000000	0.7236192000	0.0000000000	0.0000000000	0.0000000000
402	MATLL18H	153.8386192100	80.6000000000	100.0000000000	0.7236192100	0.0000000000	0.0000000000	0.0000000000
403	D10015	154.2380922100	80.6000000000	100.0000000000	1.1230922100	0.0000000000	0.0000000000	0.0000000000
404	IPMILL18	154.2380922100	80.6000000000	100.0000000000	1.1230922100	0.0000000000	0.0000000000	0.0000000000
405	D10016	154.2550402100	80.6000000000	100.0000000000	1.1400402100	0.0000000000	0.0000000000	0.0000000000
406	MQSNL	154.3250402100	80.6000000000	100.0000000000	1.2100402100	0.0000000000	0.0000000000	0.0000000000
407	D10010	154.4250402100	80.6000000000	100.0000000000	1.3100402100	0.0000000000	0.0000000000	0.0000000000
408	MQBLL18	154.5750402100	80.6000000000	100.0000000000	1.4600402100	0.0000000000	0.0000000000	0.0000000000
409	D10005	155.6841402100	80.6000000000	100.0000000000	2.5691402100	0.0000000000	0.0000000000	0.0000000000
410	RI1I1	156.1841402100	80.6000000000	100.0000000				

431	D10010	164.0250402200	80.6000000000	100.0000000000	10.9100402200	0.0000000000	0.0000000000	0.0000000000
432	MQBILL19	164.1750402200	80.6000000000	100.0000000000	11.0600402200	0.0000000000	0.0000000000	0.0000000000
433	D10005	165.2841402200	80.6000000000	100.0000000000	12.1691402200	0.0000000000	0.0000000000	0.0000000000
434	RLJ1	165.7841402200	80.6000000000	100.0000000000	12.6691402200	0.0000000000	0.0000000000	0.0000000000
435	D10006	166.0341402200	80.6000000000	100.0000000000	12.9191402200	0.0000000000	0.0000000000	0.0000000000
436	RLJ2	166.5341402200	80.6000000000	100.0000000000	13.4191402200	0.0000000000	0.0000000000	0.0000000000
437	D10007	167.1947402200	80.6000000000	100.0000000000	14.0797402200	0.0000000000	0.0000000000	0.0000000000
438	RLJ3	167.6947402200	80.6000000000	100.0000000000	14.5797402200	0.0000000000	0.0000000000	0.0000000000
439	D10006	167.9447402200	80.6000000000	100.0000000000	14.8297402200	0.0000000000	0.0000000000	0.0000000000
440	RLJ4	168.4447402200	80.6000000000	100.0000000000	15.3297402200	0.0000000000	0.0000000000	0.0000000000
441	D10007	169.1053402200	80.6000000000	100.0000000000	15.9903402200	0.0000000000	0.0000000000	0.0000000000
442	RLJ5	169.6053402200	80.6000000000	100.0000000000	16.4903402200	0.0000000000	0.0000000000	0.0000000000
443	D10006	169.8553402200	80.6000000000	100.0000000000	16.7403402200	0.0000000000	0.0000000000	0.0000000000
444	RLJ6	170.3553402200	80.6000000000	100.0000000000	17.2403402200	0.0000000000	0.0000000000	0.0000000000
445	D10007	171.0159402200	80.6000000000	100.0000000000	17.9009402200	0.0000000000	0.0000000000	0.0000000000
446	RLJ7	171.5159402200	80.6000000000	100.0000000000	18.4009402200	0.0000000000	0.0000000000	0.0000000000
447	D10006	171.7659402200	80.6000000000	100.0000000000	18.6509402200	0.0000000000	0.0000000000	0.0000000000
448	RLJ8	172.2659402200	80.6000000000	100.0000000000	19.1509402200	0.0000000000	0.0000000000	0.0000000000
449	D10014	173.0386192200	80.6000000000	100.0000000000	19.9236192200	0.0000000000	0.0000000000	0.0000000000
450	MATLL20H	173.0386192300	80.6000000000	100.0000000000	19.9236192300	0.0000000000	0.0000000000	0.0000000000
451	D10015	173.4380922300	80.6000000000	100.0000000000	20.3230922300	0.0000000000	0.0000000000	0.0000000000
452	IPMILL20	173.4380922300	80.6000000000	100.0000000000	20.3230922300	0.0000000000	0.0000000000	0.0000000000
453	D10016	173.4550402300	80.6000000000	100.0000000000	20.3400402300	0.0000000000	0.0000000000	0.0000000000
454	MQSNL	173.5250402300	80.6000000000	100.0000000000	20.4100402300	0.0000000000	0.0000000000	0.0000000000
455	D10010	173.6250402300	80.6000000000	100.0000000000	20.5100402300	0.0000000000	0.0000000000	0.0000000000
456	MQBILL20	173.7750402300	80.6000000000	100.0000000000	20.6600402300	0.0000000000	0.0000000000	0.0000000000
457	D10005	174.8841402300	80.6000000000	100.0000000000	21.7691402300	0.0000000000	0.0000000000	0.0000000000
458	RLK1	175.3841402300	80.6000000000	100.0000000000	22.2691402300	0.0000000000	0.0000000000	0.0000000000
459	D10006	175.6341402300	80.6000000000	100.0000000000	22.5191402300	0.0000000000	0.0000000000	0.0000000000
460	RLK2	176.1341402300	80.6000000000	100.0000000000	23.0191402300	0.0000000000	0.0000000000	0.0000000000
461	D10007	176.7947402300	80.6000000000	100.0000000000	23.6797402300	0.0000000000	0.0000000000	0.0000000000
462	RLK3	177.2947402300	80.6000000000	100.0000000000	24.1797402300	0.0000000000	0.0000000000	0.0000000000
463	D10006	177.5447402300	80.6000000000	100.0000000000	24.4297402300	0.0000000000	0.0000000000	0.0000000000
464	RLK4	178.0447402300	80.6000000000	100.0000000000	24.9297402300	0.0000000000	0.0000000000	0.0000000000
465	D10007	178.7053402300	80.6000000000	100.0000000000	25.5903402300	0.0000000000	0.0000000000	0.0000000000
466	RLK5	179.2053402300	80.6000000000	100.0000000000	26.0903402300	0.0000000000	0.0000000000	0.0000000000
467	D10006	179.4553402300	80.6000000000	100.0000000000	26.3403402300	0.0000000000	0.0000000000	0.0000000000
468	RLK6	179.9553402300	80.6000000000	100.0000000000	26.8403402300	0.0000000000	0.0000000000	0.0000000000
469	D10007	180.6159402300	80.6000000000	100.0000000000	27.5009402300	0.0000000000	0.0000000000	0.0000000000
470	RLK7	181.1159402300	80.6000000000	100.0000000000	28.0009402300	0.0000000000	0.0000000000	0.0000000000
471	D10006	181.3659402300	80.6000000000	100.0000000000	28.2509402300	0.0000000000	0.0000000000	0.0000000000
472	RLK8	181.8659402300	80.6000000000	100.0000000000	28.7509402300	0.0000000000	0.0000000000	0.0000000000
473	D10021	182.8583312300	80.6000000000	100.0000000000	29.7433312300	0.0000000000	0.0000000000	0.0000000000
474	MATLL21V	182.8583312400	80.6000000000	100.0000000000	29.7433312400	0.0000000000	0.0000000000	0.0000000000
475	D10018	183.0380922400	80.6000000000	100.0000000000	29.9230922400	0.0000000000	0.0000000000	0.0000000000
476	IPMILL21	183.0380922400	80.6000000000	100.0000000000	29.9230922400	0.0000000000	0.0000000000	0.0000000000
477	D10016	183.0550402400	80.6000000000	100.0000000000	29.9400402400	0.0000000000	0.0000000000	0.0000000000
478	MQSNL	183.1250402400	80.6000000000	100.0000000000	30.0100402400	0.0000000000	0.0000000000	0.0000000000
479	D10010	183.2250402400	80.6000000000	100.0000000000	30.1100402400	0.0000000000	0.0000000000	0.0000000000
480	MQBILL21	183.3750402400	80.6000000000	100.0000000000	30.2600402400	0.0000000000	0.0000000000	0.0000000000
481	D10005	184.4841402400	80.6000000000	100.0000000000	31.3691402400	0.0000000000	0.0000000000	0.0000000000
482	RL11	184.9841402400	80.6000000000	100.0000000000	31.8691402400	0.0000000000	0.0000000000	0.0000000000
483	D10006	185.2341402400	80.6000000000	100.0000000000	32.1191402400	0.0000000000	0.0000000000	0.0000000000
484	RL12	185.7341402400	80.6000000000	100.0000000000	32.6191402400	0.0000000000	0.0000000000	0.0000000000
485	D10007	186.3947402400	80.6000000000	100.0000000000	33.2797402400	0.0000000000	0.0000000000	0.0000000000
486	RL13	186.8947402400	80.6000000000	100.0000000000	33.7797402400	0.0000000000	0.0000000000	0.0000000000
487	D10006	187.1447402400	80.6000000000	100.0000000000	34.0297402400	0.0000000000	0.0000000000	0.0000000000
488	RL14	187.6447402400	80.6000000000	100.0000000000	34.5297402400	0.0000000000	0.0000000000	0.0000000000
489	D10007	188.3053402400	80.6000000000	100.0000000000	35.1903402400	0.0000000000	0.0000000000	0.0000000000
490	RL15	188.8053402400	80.6000000000	100.0000000000	35.6903402400	0.0000000000	0.0000000000	0.0000000000
491	D10006	189.0553402400	80.6000000000	100.0000000000	35.9403402400	0.0000000000	0.0000000000	0.0000000000
492	RL16	189.5553402400	80.6000000000	100.0000000000	36.4403402400	0.0000000000	0.0000000000	0.0000000000
493	D10007	190.2159402400	80.6000000000	100.0000000000	37.1009402400	0.0000000000	0.0000000000	0.0000000000
494	RL17	190.7159402400	80.6000000000	100.0000000000	37.6009402400	0.0000000000	0.0000000000	0.0000000000
495	D10006	190.9659402400	80.6000000000	100.0000000000	37.8509402400	0.0000000000	0.0000000000	0.0000000000
496	RL18	191.4659402400	80.6000000000	100.0000000000	38.3509402400	0.0000000000	0.0000000000	0.0000000000
497	D10019	192.1210212400	80.6000000000	100.0000000000	39.0060212400	0.0000000000	0.0000000000	0.0000000000
498	ITVLL22	192.1210212400	80.6000000000	100.0000000000	39.0060212400	0.0000000000	0.0000000000	0.0000000000
499	D10020	192.2386192400	80.6000000000	100.0000000000	39.1236192400	0.0000000000	0.0000000000	0.0000000000
500	MATLL22H	192.2386192500	80.6000000000	100.0000000000	39.1236192500	0.0000000000	0.0000000000	0.0000000000
501	D10015	192.6380922500	80.6000000000	100.0000000000	39.5230922500	0.0000000000	0.0000000000	0.0000000000
502	IPMILL22	192.6380922500	80.6000000000	100.0000000000	39.5230922500	0.0000000000	0.0000000000	0.0000000000
503	D10022	192.8250402500	80.6000000000	100.0000000000	39.7100402500	0.0000000000	0.0000000000	0.0000000000
504	MQBILL22	192.9750402500	80.6000000000	100.0000000000	39.8600402500	0.0000000000	0.0000000000	0.0000000000
505	D100A05	193.9841402500	80.6000000000	100.0000000000	40.8691402500	0.0000000000	0.0000000000	0.0000000000
506	RLM1	194.6841402500	80.6000000000	100.0000000000	41.5691402500	0.0000000000	0.0000000000	0.0000000000
507	D100A06	194.7341402500	80.6000000000	100.0000000000	41.6191402500	0.0000000000	0.0000000000	0.0000000000
508	RLM2	195.4341402500	80.6000000000	100.0000000000	42.3191402500	0.0000000000	0.0000000000	0.0000000000
509	D100A07	195.8947402500	80.6000000000	100.0000000000	42.7797402500	0.0000000000	0.0000000000	0.0000000000
510	RLM3	196.5947402500	80.6000000000	100.0000000000	43.4797402500	0.0000000000	0.0000000000	0.0000000000
511	D100A06	196.6447402500	80.6000000000	100.0000000000	43.5297402500	0.0000000000	0.0000000000	0.0000000000
512	RLM4	197.3447402500	80.6000000000	100.0000000000	44.2297402500	0.0000000000	0.0000000000	0.0000000000
513	D100A07	197.8053402500	80.6000000000	100.0000000000	44.6903402500	0.0000000000	0.0000000000	0.0000000000
514	RLM5	198.5053402500	80.6000000000	100.0				

535	D100A07	207.4053402600	80.6000000000	100.0000000000	54.2903402600	0.0000000000	0.0000000000	0.0000000000
536	R1N5	208.1053402600	80.6000000000	100.0000000000	54.9903402600	0.0000000000	0.0000000000	0.0000000000
537	D100A06	208.1553402600	80.6000000000	100.0000000000	55.0403402600	0.0000000000	0.0000000000	0.0000000000
538	R1N6	208.8553402600	80.6000000000	100.0000000000	55.7403402600	0.0000000000	0.0000000000	0.0000000000
539	D100A07	209.3159402600	80.6000000000	100.0000000000	56.2009402600	0.0000000000	0.0000000000	0.0000000000
540	R1N7	210.0159402600	80.6000000000	100.0000000000	56.9009402600	0.0000000000	0.0000000000	0.0000000000
541	D100A06	210.0659402600	80.6000000000	100.0000000000	56.9509402600	0.0000000000	0.0000000000	0.0000000000
542	R1N8	210.7659402600	80.6000000000	100.0000000000	57.6509402600	0.0000000000	0.0000000000	0.0000000000
543	D100A14	211.4386192600	80.6000000000	100.0000000000	58.3236192600	0.0000000000	0.0000000000	0.0000000000
544	MATLL24H	211.4386192700	80.6000000000	100.0000000000	58.3236192700	0.0000000000	0.0000000000	0.0000000000
545	D100A15	211.8380922700	80.6000000000	100.0000000000	58.7230922700	0.0000000000	0.0000000000	0.0000000000
546	IPMILL24	211.8380922700	80.6000000000	100.0000000000	58.7230922700	0.0000000000	0.0000000000	0.0000000000
547	D100A22	212.0250402700	80.6000000000	100.0000000000	58.9100402700	0.0000000000	0.0000000000	0.0000000000
548	MQBILL24	212.1750402700	80.6000000000	100.0000000000	59.0600402700	0.0000000000	0.0000000000	0.0000000000
549	D100A05	213.1841402700	80.6000000000	100.0000000000	60.0691402700	0.0000000000	0.0000000000	0.0000000000
550	R1O1	213.8841402700	80.6000000000	100.0000000000	60.7691402700	0.0000000000	0.0000000000	0.0000000000
551	D100A06	213.9341402700	80.6000000000	100.0000000000	60.8191402700	0.0000000000	0.0000000000	0.0000000000
552	R1O2	214.6341402700	80.6000000000	100.0000000000	61.5191402700	0.0000000000	0.0000000000	0.0000000000
553	D100A07	215.0947402700	80.6000000000	100.0000000000	61.9797402700	0.0000000000	0.0000000000	0.0000000000
554	R1O3	215.7947402700	80.6000000000	100.0000000000	62.6797402700	0.0000000000	0.0000000000	0.0000000000
555	D100A06	215.8447402700	80.6000000000	100.0000000000	62.7297402700	0.0000000000	0.0000000000	0.0000000000
556	R1O4	216.5447402700	80.6000000000	100.0000000000	63.4297402700	0.0000000000	0.0000000000	0.0000000000
557	D100A07	217.0053402700	80.6000000000	100.0000000000	63.8903402700	0.0000000000	0.0000000000	0.0000000000
558	R1O5	217.7053402700	80.6000000000	100.0000000000	64.5903402700	0.0000000000	0.0000000000	0.0000000000
559	D100A06	217.7553402700	80.6000000000	100.0000000000	64.6403402700	0.0000000000	0.0000000000	0.0000000000
560	R1O6	218.4553402700	80.6000000000	100.0000000000	65.3403402700	0.0000000000	0.0000000000	0.0000000000
561	D100A07	218.9159402700	80.6000000000	100.0000000000	65.8009402700	0.0000000000	0.0000000000	0.0000000000
562	R1O7	219.6159402700	80.6000000000	100.0000000000	66.5009402700	0.0000000000	0.0000000000	0.0000000000
563	D100A06	219.6659402700	80.6000000000	100.0000000000	66.5509402700	0.0000000000	0.0000000000	0.0000000000
564	R1O8	220.3659402700	80.6000000000	100.0000000000	67.2509402700	0.0000000000	0.0000000000	0.0000000000
565	D100A21	221.2583312700	80.6000000000	100.0000000000	68.1433312700	0.0000000000	0.0000000000	0.0000000000
566	MATLL25V	221.2583312800	80.6000000000	100.0000000000	68.1433312800	0.0000000000	0.0000000000	0.0000000000
567	D100A18	221.4380922800	80.6000000000	100.0000000000	68.3230922800	0.0000000000	0.0000000000	0.0000000000
568	IPMILL25	221.4380922800	80.6000000000	100.0000000000	68.3230922800	0.0000000000	0.0000000000	0.0000000000
569	D100A22	221.6250402800	80.6000000000	100.0000000000	68.5100402800	0.0000000000	0.0000000000	0.0000000000
570	MQBILL25	221.7750402800	80.6000000000	100.0000000000	68.6600402800	0.0000000000	0.0000000000	0.0000000000
571	D100A05	222.7841402800	80.6000000000	100.0000000000	69.6691402800	0.0000000000	0.0000000000	0.0000000000
572	R1P1	223.4841402800	80.6000000000	100.0000000000	70.3691402800	0.0000000000	0.0000000000	0.0000000000
573	D100A06	223.5341402800	80.6000000000	100.0000000000	70.4191402800	0.0000000000	0.0000000000	0.0000000000
574	R1P2	224.2341402800	80.6000000000	100.0000000000	71.1191402800	0.0000000000	0.0000000000	0.0000000000
575	D100A07	224.6947402800	80.6000000000	100.0000000000	71.5797402800	0.0000000000	0.0000000000	0.0000000000
576	R1P3	225.3947402800	80.6000000000	100.0000000000	72.2797402800	0.0000000000	0.0000000000	0.0000000000
577	D100A06	225.4447402800	80.6000000000	100.0000000000	72.3297402800	0.0000000000	0.0000000000	0.0000000000
578	R1P4	226.1447402800	80.6000000000	100.0000000000	73.0297402800	0.0000000000	0.0000000000	0.0000000000
579	D100A07	226.6053402800	80.6000000000	100.0000000000	73.4903402800	0.0000000000	0.0000000000	0.0000000000
580	R1P5	227.3053402800	80.6000000000	100.0000000000	74.1903402800	0.0000000000	0.0000000000	0.0000000000
581	D100A06	227.3553402800	80.6000000000	100.0000000000	74.2403402800	0.0000000000	0.0000000000	0.0000000000
582	R1P6	228.0553402800	80.6000000000	100.0000000000	74.9403402800	0.0000000000	0.0000000000	0.0000000000
583	D100A07	228.5159402800	80.6000000000	100.0000000000	75.4009402800	0.0000000000	0.0000000000	0.0000000000
584	R1P7	229.2159402800	80.6000000000	100.0000000000	76.1009402800	0.0000000000	0.0000000000	0.0000000000
585	D100A06	229.2659402800	80.6000000000	100.0000000000	76.1509402800	0.0000000000	0.0000000000	0.0000000000
586	R1P8	229.9659402800	80.6000000000	100.0000000000	76.8509402800	0.0000000000	0.0000000000	0.0000000000
587	D100A19	230.5210212800	80.6000000000	100.0000000000	77.4060212800	0.0000000000	0.0000000000	0.0000000000
588	ITVILL26	230.5210212800	80.6000000000	100.0000000000	77.4060212800	0.0000000000	0.0000000000	0.0000000000
589	D100A20	230.6386192800	80.6000000000	100.0000000000	77.5236192800	0.0000000000	0.0000000000	0.0000000000
590	MATLL26H	230.6386192900	80.6000000000	100.0000000000	77.5236192900	0.0000000000	0.0000000000	0.0000000000
591	D100A15	231.0380922900	80.6000000000	100.0000000000	77.9230922900	0.0000000000	0.0000000000	0.0000000000
592	IPMILL26	231.0380922900	80.6000000000	100.0000000000	77.9230922900	0.0000000000	0.0000000000	0.0000000000
593	D100A22	231.2250402900	80.6000000000	100.0000000000	78.1100402900	0.0000000000	0.0000000000	0.0000000000
594	MQBILL26	231.3750402900	80.6000000000	100.0000000000	78.2600402900	0.0000000000	0.0000000000	0.0000000000
595	D100A05	232.3841402900	80.6000000000	100.0000000000	79.2691402900	0.0000000000	0.0000000000	0.0000000000
596	R1Q1	233.0841402900	80.6000000000	100.0000000000	79.9691402900	0.0000000000	0.0000000000	0.0000000000
597	D100A06	233.1341402900	80.6000000000	100.0000000000	80.0191402900	0.0000000000	0.0000000000	0.0000000000
598	R1Q2	233.8341402900	80.6000000000	100.0000000000	80.7191402900	0.0000000000	0.0000000000	0.0000000000
599	D100A07	234.2947402900	80.6000000000	100.0000000000	81.1797402900	0.0000000000	0.0000000000	0.0000000000
600	R1Q3	234.9947402900	80.6000000000	100.0000000000	81.8797402900	0.0000000000	0.0000000000	0.0000000000
601	D100A06	235.0447402900	80.6000000000	100.0000000000	81.9297402900	0.0000000000	0.0000000000	0.0000000000
602	R1Q4	235.7447402900	80.6000000000	100.0000000000	82.6297402900	0.0000000000	0.0000000000	0.0000000000
603	D100A07	236.2053402900	80.6000000000	100.0000000000	83.0903402900	0.0000000000	0.0000000000	0.0000000000
604	R1Q5	236.9053402900	80.6000000000	100.0000000000	83.7903402900	0.0000000000	0.0000000000	0.0000000000
605	D100A06	236.9553402900	80.6000000000	100.0000000000	83.8403402900	0.0000000000	0.0000000000	0.0000000000
606	R1Q6	237.6553402900	80.6000000000	100.0000000000	84.5403402900	0.0000000000	0.0000000000	0.0000000000
607	D100A07	238.1159402900	80.6000000000	100.0000000000	85.0009402900	0.0000000000	0.0000000000	0.0000000000
608	R1Q7	238.8159402900	80.6000000000	100.0000000000	85.7009402900	0.0000000000	0.0000000000	0.0000000000
609	D100A06	238.8659402900	80.6000000000	100.0000000000	85.7509402900	0.0000000000	0.0000000000	0.0000000000
610	R1Q8	239.5659402900	80.6000000000	100.0000000000	86.4509402900	0.0000000000	0.0000000000	0.0000000000
611	D100A14	240.2386192900	80.6000000000	100.0000000000	87.1236192900	0.0000000000	0.0000000000	0.0000000000
612	MATLL27H	240.2386193000	80.6000000000	100.0000000000	87.1236193000	0.0000000000	0.0000000000	0.0000000000
613	D100A17	240.4583313000	80.6000000000	100.0000000000	87.3433313000	0.0000000000	0.0000000000	0.0000000000
614	MATLL27V	240.4583313100	80.6000000000	100.0000000000	87.3433313100	0.0000000000	0.0000000000	0.0000000000
615	D100A18	240.6380923100	80.6000000000	100.0000000000	87.5230923100	0.0000000000	0.0000000000	0.0000000000
616	IPMILL27	240.6380923100	80.6000000000	100.0000000000	87.5230923100	0.0000000000	0.0000000000	0.0000000000
617	D100A22	240.8250403100	80.6000000000	100.0000000000	87.7100403100	0.0000000000	0.0000000000	0.0000000000
618	MQBILL27							

XSIF Parser Version 2.1
Version Date: 01-JAN-2004
Run: 12-JUN-2007 09:49:53
XSIF Parser developed by NLC Department,
Stanford Linear Accelerator Center.

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UTRANSPORT

TITLE
CONVERTED FROM ../.././OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//LIN2.OPT
5
D10025: DRIFT, L=0.3
MQB2L01: QUADRUPOLE, L=0.15, K1=1.20913, TILT=0
D10074: DRIFT, L=0.172695
IPM2L01: MONITOR, L=0
10
D10075: DRIFT, L=0.612618
ITV2L01: MONITOR, L=0
D10076: DRIFT, L=3.75395
ITV2L02: MONITOR, L=0
D10077: DRIFT, L=0.337266
15
MAT2L02V: GKICK, L=1E-08, DXP=0, DYP=0
D10078: DRIFT, L=0.179766
IPM2L02: MONITOR, L=0
D10079: DRIFT, L=0.186953
MQB2L02: QUADRUPOLE, L=0.15, K1=-1.20913, TILT=0
20
D10080: DRIFT, L=1.10906
R221: LCAVITY, L=0.5, DELTAE=3687.5, E0=1.21249, FREQ=1.49896E+09, PHI0=0
D10006: DRIFT, L=0.25
R222: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
D10081: DRIFT, L=0.660625
25
R223: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R224: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R225: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R226: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R227: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
30
R228: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
D10082: DRIFT, L=0.772656
MAT2L03H: GKICK, L=1E-08, DXP=0, DYP=0
D10083: DRIFT, L=0.399454
IPM2L03: MONITOR, L=0
35
D10084: DRIFT, L=0.016953
MQSSL: QUADRUPOLE, L=0.07, K1=0, TILT=0
D10010: DRIFT, L=0.1
MQB2L03: QUADRUPOLE, L=0.15, K1=1.20913, TILT=0
40
R231: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R232: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R233: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R234: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R235: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
45
R236: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R237: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R238: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
D10085: DRIFT, L=0.992344
MAT2L04V: GKICK, L=1E-08, DXP=0, DYP=0
50
IPM2L04: MONITOR, L=0
MQB2L04: QUADRUPOLE, L=0.15, K1=-1.20913, TILT=0
R241: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R242: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R243: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
55
R244: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R245: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R246: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R247: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R248: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
MAT2L05H: GKICK, L=1E-08, DXP=0, DYP=0
60
IPM2L05: MONITOR, L=0
MQB2L05: QUADRUPOLE, L=0.15, K1=1.20913, TILT=0
R251: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R252: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
65
R253: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R254: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R255: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R256: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R257: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
70
R258: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
D10086: DRIFT, L=0.655078
ITV2L06: MONITOR, L=0
MAT2L06V: GKICK, L=1E-08, DXP=0, DYP=0
IPM2L06: MONITOR, L=0
75
MQB2L06: QUADRUPOLE, L=0.15, K1=-1.20913, TILT=0
R261: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R262: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R263: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R264: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
80
R265: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R266: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R267: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R268: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
MAT2L07H: GKICK, L=1E-08, DXP=0, DYP=0
IPM2L07: MONITOR, L=0
85
MQB2L07: QUADRUPOLE, L=0.15, K1=1.20913, TILT=0
R271: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R272: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R273: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R274: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
90
R275: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R276: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R277: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R278: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
MAT2L08V: GKICK, L=1E-08, DXP=0, DYP=0
IPM2L08: MONITOR, L=0
95
MQB2L08: QUADRUPOLE, L=0.15, K1=-1.20913, TILT=0
R281: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
R282: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
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R2H6: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 R2H7: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 205 R2H8: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 ITV2L18: MONITOR, L=0
 MAT2L18V: GKICK, L=1E-08, DXP=0, DYP=0
 IPM2L18: MONITOR, L=0
 MQB2L18: QUADRUPOLE, L=0.15, K1=-1.20913, TILT=0
 210 R2I1: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 R2I2: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 R2I3: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 R2I4: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 R2I5: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 215 R2I6: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 R2I7: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 R2I8: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 MAT2L19H: GKICK, L=1E-08, DXP=0, DYP=0
 IPM2L19: MONITOR, L=0
 220 MQB2L19: QUADRUPOLE, L=0.15, K1=1.20913, TILT=0
 R2J1: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 R2J2: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 R2J3: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 R2J4: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 225 R2J5: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 R2J6: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 R2J7: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 R2J8: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 MAT2L20V: GKICK, L=1E-08, DXP=0, DYP=0
 230 IPM2L20: MONITOR, L=0
 MQB2L20: QUADRUPOLE, L=0.15, K1=-1.20913, TILT=0
 R2K1: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 R2K2: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 R2K3: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 235 R2K4: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 R2K5: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 R2K6: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 R2K7: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 R2K8: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 240 MAT2L21H: GKICK, L=1E-08, DXP=0, DYP=0
 IPM2L21: MONITOR, L=0
 MQB2L21: QUADRUPOLE, L=0.15, K1=1.20913, TILT=0
 R2L1: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 R2L2: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 245 R2L3: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 R2L4: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 R2L5: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 R2L6: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 250 R2L7: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 R2L8: LCAVITY, L=0.5, DELTAE=3687.5, FREQ=1.49896E+09, PHI0=0
 ITV2L22: MONITOR, L=0
 D10087: DRIFT, L=0.117578
 MAT2L22V: GKICK, L=1E-08, DXP=0, DYP=0
 IPM2L22: MONITOR, L=0
 255 MQB2L22: QUADRUPOLE, L=0.15, K1=-1.20913, TILT=0
 D100A80: DRIFT, L=1.00906
 R2M1: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 D100A06: DRIFT, L=0.05
 R2M2: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 260 D100A81: DRIFT, L=0.460625
 R2M3: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 R2M4: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 R2M5: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 R2M6: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 265 R2M7: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 R2M8: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 D100A82: DRIFT, L=0.672656
 MAT2L23H: GKICK, L=1E-08, DXP=0, DYP=0
 D100A83: DRIFT, L=0.399454
 270 IPM2L23: MONITOR, L=0
 D100A79: DRIFT, L=0.186953
 MQB2L23: QUADRUPOLE, L=0.15, K1=1.20913, TILT=0
 R2N1: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 R2N2: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 275 R2N3: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 R2N4: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 R2N5: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 R2N6: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 R2N7: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 280 R2N8: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 MAT2L24V: GKICK, L=1E-08, DXP=0, DYP=0
 IPM2L24: MONITOR, L=0
 MQB2L24: QUADRUPOLE, L=0.15, K1=-1.20913, TILT=0
 R2O1: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 285 R2O2: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 R2O3: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 R2O4: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 R2O5: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 R2O6: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 290 R2O7: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 R2O8: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 MAT2L25H: GKICK, L=1E-08, DXP=0, DYP=0
 IPM2L25: MONITOR, L=0
 MQB2L25: QUADRUPOLE, L=0.15, K1=1.20913, TILT=0
 295 R2P1: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 R2P2: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 R2P3: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 R2P4: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 R2P5: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 300 R2P6: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 R2P7: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 R2P8: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
 D100A86: DRIFT, L=0.555078
 ITV2L26: MONITOR, L=0
 305 D100A87: DRIFT, L=0.117578
 MAT2L26V: GKICK, L=1E-08, DXP=0, DYP=0

IPM2L26: MONITOR, L=0
MQB2L26: QUADRUPOLE, L=0.15, K1=-1.20913, TILT=0
D100A88: DRIFT, L=1.40852
310 R2Q1: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R2Q2: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R2Q3: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R2Q4: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R2Q5: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
315 R2Q6: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R2Q7: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
R2Q8: LCAVITY, L=0.7, DELTAE=12500, FREQ=1.49896E+09, PHI0=0
IPM2L27: MONITOR, L=0
MQB2L27: QUADRUPOLE, L=0.15, K1=1.23596, TILT=0
320 D100A89: DRIFT, L=2.4356

LIN2: LINE=(D10025, &
MQB2L01, D10074, IPM2L01, D10075, ITV2L01, &
D10076, ITV2L02, D10077, MAT2L02V, D10078, &
325 IPM2L02, D10079, MQB2L02, D10080, R221, &
D10006, R222, D10081, R223, D10006, &
R224, D10081, R225, D10006, R226, &
D10081, R227, D10006, R228, D10082, &
MAT2L03H, D10083, IPM2L03, D10084, MQSSL, &
330 D10010, MQB2L03, D10080, R231, D10006, &
R232, D10081, R233, D10006, R234, &
D10081, R235, D10006, R236, D10081, &
R237, D10006, R238, D10085, MAT2L04V, &
D10078, IPM2L04, D10084, MQSSL, D10010, &
335 MQB2L04, D10080, R241, D10006, R242, &
D10081, R243, D10006, R244, D10081, &
R245, D10006, R246, D10081, R247, &
D10006, R248, D10082, MAT2L05H, D10083, &
IPM2L05, D10084, MQSSL, D10010, MQB2L05, &
340 D10080, R251, D10006, R252, D10081, &
R253, D10006, R254, D10081, R255, &
D10006, R256, D10081, R257, D10006, &
R258, D10086, ITV2L06, D10077, MAT2L06V, &
D10078, IPM2L06, D10084, MQSSL, D10010, &
345 MQB2L06, D10080, R261, D10006, R262, &
D10081, R263, D10006, R264, D10081, &
R265, D10006, R266, D10081, R267, &
D10006, R268, D10082, MAT2L07H, D10083, &
IPM2L07, D10084, MQSSL, D10010, MQB2L07, &
350 D10080, R271, D10006, R272, D10081, &
R273, D10006, R274, D10081, R275, &
D10006, R276, D10081, R277, D10006, &
R278, D10085, MAT2L08V, D10078, IPM2L08, &
D10084, MQSSL, D10010, MQB2L08, D10080, &
355 R281, D10006, R282, D10081, R283, &
D10006, R284, D10081, R285, D10006, &
R286, D10081, R287, D10006, R288, &
D10082, MAT2L09H, D10083, IPM2L09, D10084, &
MQSSL, D10010, MQB2L09, D10080, R291, &
360 D10006, R292, D10081, R293, D10006, &
R294, D10081, R295, D10006, R296, &
D10081, R297, D10006, R298, D10086, &
ITV2L10, D10077, MAT2L10V, D10078, IPM2L10, &
D10084, MQSSL, D10010, MQB2L10, D10080, &
365 R2A1, D10006, R2A2, D10081, R2A3, &
D10006, R2A4, D10081, R2A5, D10006, &
R2A6, D10081, R2A7, D10006, R2A8, &
D10082, MAT2L11H, D10083, IPM2L11, D10084, &
MQSSL, D10010, MQB2L11, D10080, R2B1, &
370 D10006, R2B2, D10081, R2B3, D10006, &
R2B4, D10081, R2B5, D10006, R2B6, &
D10081, R2B7, D10006, R2B8, D10082, &
MAT2L12V, D10083, IPM2L12, D10084, MQSSL, &
D10010, MQB2L12, D10080, R2C1, D10006, &
375 R2C2, D10081, R2C3, D10006, R2C4, &
D10081, R2C5, D10006, R2C6, D10081, &
R2C7, D10006, R2C8, D10082, MAT2L13H, &
D10083, IPM2L13, D10084, MQSSL, D10010, &
MQB2L13, D10080, R2D1, D10006, R2D2, &
380 D10081, R2D3, D10006, R2D4, D10081, &
R2D5, D10006, R2D6, D10081, R2D7, &
D10006, R2D8, D10086, ITV2L14, D10077, &
MAT2L14V, D10078, IPM2L14, D10084, MQSSL, &
D10010, MQB2L14, D10080, R2E1, D10006, &
385 R2E2, D10081, R2E3, D10006, R2E4, &
D10081, R2E5, D10006, R2E6, D10081, &
R2E7, D10006, R2E8, D10082, MAT2L15H, &
D10083, IPM2L15, D10084, MQSSL, D10010, &
MQB2L15, D10080, R2F1, D10006, R2F2, &
390 D10081, R2F3, D10006, R2F4, D10081, &
R2F5, D10006, R2F6, D10081, R2F7, &
D10006, R2F8, D10085, MAT2L16V, D10078, &
IPM2L16, D10084, MQSSL, D10010, MQB2L16, &
D10080, R2G1, D10006, R2G2, D10081, &
395 R2G3, D10006, R2G4, D10081, R2G5, &
D10006, R2G6, D10081, R2G7, D10006, &
R2G8, D10082, MAT2L17H, D10083, IPM2L17, &
D10084, MQSSL, D10010, MQB2L17, D10080, &
R2H1, D10006, R2H2, D10081, R2H3, &
400 D10006, R2H4, D10081, R2H5, D10006, &
R2H6, D10081, R2H7, D10006, R2H8, &
D10086, ITV2L18, D10077, MAT2L18V, D10078, &
IPM2L18, D10084, MQSSL, D10010, MQB2L18, &
D10080, R2I1, D10006, R2I2, D10081, &
405 R2I3, D10006, R2I4, D10081, R2I5, &
D10006, R2I6, D10081, R2I7, D10006, &
R2I8, D10082, MAT2L19H, D10083, IPM2L19, &
D10084, MQSSL, D10010, MQB2L19, D10080, &
R2J1, D10006, R2J2, D10081, R2J3, &
410 D10006, R2J4, D10081, R2J5, D10006, &

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R2J6, D10081, R2J7, D10006, R2J8, &
D10082, MAT2L20V, D10083, IPM2L20, D10084, &
MQSSL, D10010, MQB2L20, D10080, R2K1, &
D10006, R2K2, D10081, R2K3, D10006, &
415 R2K4, D10081, R2K5, D10006, R2K6, &
D10081, R2K7, D10006, R2K8, D10082, &
MAT2L21H, D10083, IPM2L21, D10084, MQSSL, &
D10010, MQB2L21, D10080, R2L1, D10006, &
420 R2L2, D10081, R2L3, D10006, R2L4, &
D10081, R2L5, D10006, R2L6, D10081, &
R2L7, D10006, R2L8, D10086, ITV2L22, &
D10087, MAT2L22V, D10083, IPM2L22, D10079, &
MQB2L22, D100A80, R2M1, D100A06, R2M2, &
D100A81, R2M3, D100A06, R2M4, D100A81, &
425 R2M5, D100A06, R2M6, D100A81, R2M7, &
D100A06, R2M8, D100A82, MAT2L23H, D100A83, &
IPM2L23, D100A79, MQB2L23, D100A80, R2N1, &
D100A06, R2N2, D100A81, R2N3, D100A06, &
R2N4, D100A81, R2N5, D100A06, R2N6, &
430 D100A81, R2N7, D100A06, R2N8, D100A82, &
MAT2L24V, D100A83, IPM2L24, D100A79, MQB2L24, &
D100A80, R2O1, D100A06, R2O2, D100A81, &
R2O3, D100A06, R2O4, D100A81, R2O5, &
D100A06, R2O6, D100A81, R2O7, D100A06, &
435 R2O8, D100A82, MAT2L25H, D100A83, IPM2L25, &
D100A79, MQB2L25, D100A80, R2P1, D100A06, &
R2P2, D100A81, R2P3, D100A06, R2P4, &
D100A81, R2P5, D100A06, R2P6, D100A81, &
R2P7, D100A06, R2P8, D100A86, ITV2L26, &
440 D100A87, MAT2L26V, D100A83, IPM2L26, D100A79, &
MQB2L26, D100A88, R2Q1, D100A06, R2Q2, &
D100A81, R2Q3, D100A06, R2Q4, D100A81, &
R2Q5, D100A06, R2Q6, D100A81, R2Q7, &
445 D100A06, R2Q8, D100A82, IPM2L27, D100A79, &
MQB2L27, D100A89)
USE, LIN2
DIMAT

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* DIMAD PROGRAM : LAST MODIFIED ON May 27, 2005 *
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1 CONVERTED FROM ../../OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//LIN2.OPT

TOTAL LENGTH OF MACHINE IS: 248.279 METERS

LINAC ENERGY SUMMARY: SET UP FOR CHARGE = 0.000E+00

INJECTION ENERGY: 1.21249, GEV, FINAL ENERGY : 2.30249 GEV (IDEAL)
2.30249 GEV (REAL)

IN THIS RUN THERE ARE :

315 DISTINCT ELEMENTS.	ALLOCATED MXELMD	: 316
613 ELEMENTS IN MACHINE.	ALLOCATED MXPOS_D	: 615
228 MATRICES DEFINED.	ALLOCATED MAXMAT	: 229
3225 VALUES IN ELDAT.	ALLOCATED MAXDAT	: 3225
200 LCAVs.	ALLOCATED MX_LCAV	: 201

1 OPERATION LIST ,

MACHINE

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1 2 1 0 1 1 1
15.8859 -0.690273 0 0
12.1453 0.377893 0 0
0,

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ELEMENT	#	BETAX	ALPHAX	BETAY	ALPHAY	ETAX	ETAPX	ETAY	ETAPY	NUX	NUY	ACC.LEN
\$\$INITIAL\$\$	0	15.8859	-0.6903	12.1453	0.3779	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.000
D10025	1	16.3084	-0.7182	11.9270	0.3497	0.0000	0.0000	0.0000	0.0000	0.00297	0.00397	0.300
MQB2L01	2	16.0824	2.2114	12.1498	-1.8482	0.0000	0.0000	0.0000	0.0000	0.00443	0.00596	0.450
D10074	3	15.3295	2.1481	12.7990	-1.9109	0.0000	0.0000	0.0000	0.0000	0.00618	0.00816	0.623
IPM2L01	4	15.3295	2.1481	12.7990	-1.9109	0.0000	0.0000	0.0000	0.0000	0.00618	0.00816	0.623
D10075	5	12.8350	1.9238	15.2767	-2.1336	0.0000	0.0000	0.0000	0.0000	0.01314	0.01514	1.235
ITV2L01	6	12.8350	1.9238	15.2767	-2.1336	0.0000	0.0000	0.0000	0.0000	0.01314	0.01514	1.235
D10076	7	3.5529	0.5489	36.4169	-3.4979	0.0000	0.0000	0.0000	0.0000	0.10695	0.04058	4.989
ITV2L02	8	3.5529	0.5489	36.4169	-3.4979	0.0000	0.0000	0.0000	0.0000	0.10695	0.04058	4.989
D10077	9	3.2244	0.4253	38.8177	-3.6205	0.0000	0.0000	0.0000	0.0000	0.12284	0.04201	5.327

MAT2L02V	10	3.2244	0.4253	38.8177	-3.6205	0.0000	0.0000	0.0000	0.0000	0.12284	0.04201	5.327
D10078	11	3.0833	0.3595	40.1311	-3.6858	0.0000	0.0000	0.0000	0.0000	0.13192	0.04273	5.506
IPM2L02	12	3.0833	0.3595	40.1311	-3.6858	0.0000	0.0000	0.0000	0.0000	0.13192	0.04273	5.506
D10079	13	2.9616	0.2910	41.5219	-3.7537	0.0000	0.0000	0.0000	0.0000	0.14177	0.04346	5.693
MQB2L02	14	2.9624	-0.2959	41.5164	3.7901	0.0000	0.0000	0.0000	0.0000	0.14987	0.04403	5.843
D10080	15	4.0702	-0.7030	33.5648	3.3796	0.0000	0.0000	0.0000	0.0000	0.20161	0.04876	6.952
R221	16	4.8785	-0.8863	30.3746	3.1949	0.0000	0.0000	0.0000	0.0000	0.21950	0.05125	7.452
D10006	17	5.3445	-0.9778	28.8002	3.1026	0.0000	0.0000	0.0000	0.0000	0.22730	0.05260	7.702
R222	18	6.4315	-1.1605	25.8725	2.9184	0.0000	0.0000	0.0000	0.0000	0.24089	0.05551	8.202
D10081	19	8.1241	-1.4016	22.1770	2.6754	0.0000	0.0000	0.0000	0.0000	0.25545	0.05990	8.863
R223	20	9.6436	-1.5838	19.6566	2.4918	0.0000	0.0000	0.0000	0.0000	0.26445	0.06372	9.363
D10006	21	10.4582	-1.6747	18.4336	2.4001	0.0000	0.0000	0.0000	0.0000	0.26841	0.06581	9.613
R224	22	12.2579	-1.8563	16.1772	2.2170	0.0000	0.0000	0.0000	0.0000	0.27544	0.07041	10.113
D10081	23	14.8689	-2.0960	13.4075	1.9754	0.0000	0.0000	0.0000	0.0000	0.28323	0.07756	10.774
R225	24	17.1034	-2.2770	11.5608	1.7929	0.0000	0.0000	0.0000	0.0000	0.28823	0.08395	11.274
D10006	25	18.2645	-2.3674	10.6872	1.7018	0.0000	0.0000	0.0000	0.0000	0.29048	0.08753	11.524
R226	26	20.7806	-2.5480	9.1060	1.5198	0.0000	0.0000	0.0000	0.0000	0.29456	0.09560	12.024
D10081	27	24.3045	-2.7862	7.2567	1.2796	0.0000	0.0000	0.0000	0.0000	0.29924	0.10855	12.684
R227	28	27.2576	-2.9662	6.0877	1.0982	0.0000	0.0000	0.0000	0.0000	0.30233	0.12053	13.184
D10006	29	28.7631	-3.0560	5.5612	1.0076	0.0000	0.0000	0.0000	0.0000	0.30375	0.12737	13.434
R228	30	31.9992	-3.2355	4.6593	0.8267	0.0000	0.0000	0.0000	0.0000	0.30638	0.14303	13.934
D10082	31	37.2131	-3.5124	3.5975	0.5475	0.0000	0.0000	0.0000	0.0000	0.30994	0.17325	14.707
MAT2L03H	32	37.2131	-3.5124	3.5975	0.5475	0.0000	0.0000	0.0000	0.0000	0.30994	0.17325	14.707
D10083	33	40.0763	-3.6556	3.2177	0.4032	0.0000	0.0000	0.0000	0.0000	0.31159	0.19198	15.106
IPM2L03	34	40.0763	-3.6556	3.2177	0.4032	0.0000	0.0000	0.0000	0.0000	0.31159	0.19198	15.106
D10084	35	40.2004	-3.6617	3.2042	0.3971	0.0000	0.0000	0.0000	0.0000	0.31165	0.19282	15.123
MQSSL	36	40.7148	-3.6868	3.1503	0.3718	0.0000	0.0000	0.0000	0.0000	0.31193	0.19632	15.193
D10010	37	41.4557	-3.7226	3.0796	0.3356	0.0000	0.0000	0.0000	0.0000	0.31232	0.20144	15.293
MQB2L03	38	41.4427	3.8085	3.0698	-0.2698	0.0000	0.0000	0.0000	0.0000	0.31289	0.20924	15.443
D10080	39	33.4552	3.3936	4.0982	-0.6574	0.0000	0.0000	0.0000	0.0000	0.31763	0.25985	16.552
R231	40	30.2494	3.2068	4.8562	-0.8319	0.0000	0.0000	0.0000	0.0000	0.32013	0.27773	17.052
D10006	41	28.6693	3.1135	5.2939	-0.9190	0.0000	0.0000	0.0000	0.0000	0.32148	0.28558	17.302
R232	42	25.7293	2.9273	6.3170	-1.0930	0.0000	0.0000	0.0000	0.0000	0.32441	0.29936	17.802
D10081	43	22.0239	2.6816	7.9127	-1.3225	0.0000	0.0000	0.0000	0.0000	0.32883	0.31425	18.463
R233	44	19.4963	2.4959	9.3474	-1.4959	0.0000	0.0000	0.0000	0.0000	0.33267	0.32351	18.963
D10006	45	18.2715	2.4032	10.1170	-1.5825	0.0000	0.0000	0.0000	0.0000	0.33478	0.32760	19.213
R234	46	16.0112	2.2181	11.8182	-1.7555	0.0000	0.0000	0.0000	0.0000	0.33943	0.33488	19.713
D10081	47	13.2420	1.9738	14.2883	-1.9836	0.0000	0.0000	0.0000	0.0000	0.34666	0.34297	20.374
R235	48	11.3965	1.7892	16.4031	-2.1561	0.0000	0.0000	0.0000	0.0000	0.35314	0.34817	20.874
D10006	49	10.5249	1.6971	17.5027	-2.2421	0.0000	0.0000	0.0000	0.0000	0.35677	0.35052	21.124
R236	50	8.9483	1.5130	19.8854	-2.4141	0.0000	0.0000	0.0000	0.0000	0.36497	0.35479	21.624
D10081	51	7.1097	1.2702	23.2248	-2.6409	0.0000	0.0000	0.0000	0.0000	0.37817	0.35968	22.284
R237	52	5.9503	1.0867	26.0232	-2.8123	0.0000	0.0000	0.0000	0.0000	0.39042	0.36292	22.784
D10006	53	5.4299	0.9950	27.4507	-2.8979	0.0000	0.0000	0.0000	0.0000	0.39742	0.36441	23.034
R238	54	4.5408	0.8120	30.5183	-3.0688	0.0000	0.0000	0.0000	0.0000	0.41347	0.36716	23.534
D10085	55	3.2890	0.4494	36.9451	-3.4076	0.0000	0.0000	0.0000	0.0000	0.45480	0.37186	24.527
MAT2L04V	56	3.2890	0.4494	36.9451	-3.4076	0.0000	0.0000	0.0000	0.0000	0.45480	0.37186	24.527
D10078	57	3.1393	0.3837	38.1813	-3.4690	0.0000	0.0000	0.0000	0.0000	0.46371	0.37262	24.706
IPM2L04	58	3.1393	0.3837	38.1813	-3.4690	0.0000	0.0000	0.0000	0.0000	0.46371	0.37262	24.706
D10084	59	3.1264	0.3775	38.2990	-3.4747	0.0000	0.0000	0.0000	0.0000	0.46457	0.37269	24.723
MQSSL	60	3.0753	0.3519	38.7871	-3.4986	0.0000	0.0000	0.0000	0.0000	0.46817	0.37298	24.793
D10010	61	3.0086	0.3154	39.4903	-3.5328	0.0000	0.0000	0.0000	0.0000	0.47340	0.37339	24.893
MQB2L04	62	3.0031	-0.2787	39.4740	3.6406	0.0000	0.0000	0.0000	0.0000	0.48138	0.37399	25.043
D10080	63	4.0628	-0.6767	31.8429	3.2401	0.0000	0.0000	0.0000	0.0000	0.53281	0.37897	26.152
R241	64	4.8420	-0.8559	28.7807	3.0598	0.0000	0.0000	0.0000	0.0000	0.55079	0.38160	26.652
D10006	65	5.2923	-0.9453	27.2733	2.9698	0.0000	0.0000	0.0000	0.0000	0.55865	0.38302	26.902
R242	66	6.3438	-1.1240	24.4681	2.7900	0.0000	0.0000	0.0000	0.0000	0.57240	0.38610	27.402
D10081	67	7.9846	-1.3529	20.9385	2.5529	0.0000	0.0000	0.0000	0.0000	0.58719	0.39075	28.063
R243	68	9.4584	-1.5378	18.5321	2.3736	0.0000	0.0000	0.0000	0.0000	0.59636	0.39479	28.563
D10006	69	10.2496	-1.6268	17.3676	2.2841	0.0000	0.0000	0.0000	0.0000	0.60040	0.39700	28.813
R244	70	11.9971	-1.8044	15.2197	2.1054	0.0000	0.0000	0.0000	0.0000	0.60758	0.40190	29.313
D10081	71	14.5360	-2.0388	12.5937	1.8696	0.0000	0.0000	0.0000	0.0000	0.61554	0.40950	29.974
R245	72	16.7080	-2.2159	10.8468	1.6914	0.0000	0.0000	0.0000	0.0000	0.62065	0.41631	30.474
D10006	73	17.8381	-2.3043	10.0234	1.6024	0.0000	0.0000	0.0000	0.0000	0.62295	0.42012	30.724
R246	74	20.2851	-2.4809	8.5363	1.4247	0.0000	0.0000	0.0000	0.0000	0.62714	0.42873	31.224
D10081	75	23.7169	-2.7139	6.8089	1.1902	0.0000	0.0000	0.0000	0.0000	0.63193	0.44254	31.884
R247	76	26.5905	-2.8900	5.7251	1.0130	0.0000	0.0000	0.0000	0.0000	0.63510	0.45530	32.384
D10006	77	28.0575	-2.9780	5.2408	0.9245	0.0000	0.0000	0.0000	0.0000	0.63656	0.46256	32.634
R248	78	31.2074	-3.1536	4.4183	0.7478	0.0000	0.0000	0.0000	0.0000	0.63925	0.47913	33.134
D10082	79	36.2900	-3.4246	3.4734	0.4751	0.0000	0.0000	0.0000	0.0000	0.64290	0.51073	33.907
MAT2L05H	80	36.2900	-3.4246	3.4734	0.4751	0.0000	0.0000	0.0000	0.0000	0.64290	0.51073	33.907
D10083	81	39.0819	-3.5647	3.1501	0.3342	0.0000	0.0000	0.0000	0.0000	0.64459	0.53000	34.306
IPM2L05	82	39.0819	-3.5647	3.1501	0.3342	0.0000	0.0000	0.0000	0.0000	0.64459	0.53000	34.306
D10084	83	39.2029	-3.5706	3.1389	0.3282	0.0000	0.0000	0.0000	0.0000	0.64466	0.53085	34.323
MQSSL	84	39.7045	-3.5952	3.0946	0.3035	0.0000	0.0000	0.0000	0.0000	0.64494	0.53443	34.393
D10010	85	40.4270	-3.6302	3.0375	0.2682	0.0000	0.0000	0.0000	0.0000	0.64534	0.53962	34.493
MQB2L05	86	40.4144	3.7138	3.0469	-0.3319	0.0000	0.0000	0.0000	0.0000	0.64593	0.54751	34.643
D10080	87	32.6269	3.3079	4.2314	-0.7360	0.0000	0.0000	0.0000	0.0000	0.65079	0.59748	35.752
R251	88	29.4983	3.1251	5.0715	-0.9179	0.0000	0.0000	0.0000	0.0000	0.65335	0.61470	36.252
D10006	89	27.9585	3.0339	5.5532	-1.0088	0.0000	0.0000	0.0000	0.0000	0.65474	0.62220	36.502
R252	90	25.0906	2.8516	6.6699	-1.1902	0.0000	0.0000	0.0000	0.0000	0.65774	0.63529	37.002
D10081	91	21.4817	2.6112	8.4005	-1.4295	0.0000	0.0000	0.0000	0.0000	0.66227	0.64935	37.663
R253	92	19.0184	2.4295	9.9463	-1.6104	0.0000	0.0000	0.0000	0.0000	0.66621	0.65806	38.163
D10006	93	17.8263	2.3388	10.7741	-1.7007	0.0000	0.0000	0.0000	0.0000	0.66837	0.66191	38.413
R254	94	15.6251	2.1575	12.5979	-1.8811	0.000						

R261	114	4.9625	-0.8833	30.5216	3.2710	0.0000	0.0000	0.0000	0.0000	0.88445	0.71261	45.852
D10006	115	5.4265	-0.9730	28.9100	3.1752	0.0000	0.0000	0.0000	0.0000	0.89212	0.71395	46.102
R262	116	6.5056	-1.1521	25.9062	2.9838	0.0000	0.0000	0.0000	0.0000	0.90553	0.71685	46.602
D10081	117	8.1839	-1.3885	22.1307	2.7312	0.0000	0.0000	0.0000	0.0000	0.91996	0.72124	47.263
R263	118	9.6863	-1.5671	19.5523	2.5404	0.0000	0.0000	0.0000	0.0000	0.92890	0.72507	47.763
D10006	119	10.4922	-1.6563	18.3059	2.4451	0.0000	0.0000	0.0000	0.0000	0.93285	0.72717	48.013
R264	120	12.2688	-1.8344	16.0031	2.2547	0.0000	0.0000	0.0000	0.0000	0.93987	0.73182	48.513
D10081	121	14.8478	-2.0695	13.1900	2.0036	0.0000	0.0000	0.0000	0.0000	0.94766	0.73906	49.174
R265	122	17.0498	-2.2471	11.3148	1.8138	0.0000	0.0000	0.0000	0.0000	0.95266	0.74558	49.674
D10006	123	18.1955	-2.3358	10.4317	1.7190	0.0000	0.0000	0.0000	0.0000	0.95492	0.74924	49.924
R266	124	20.6730	-2.5130	8.8336	1.5297	0.0000	0.0000	0.0000	0.0000	0.95903	0.75754	50.424
D10081	125	24.1477	-2.7468	6.9776	1.2799	0.0000	0.0000	0.0000	0.0000	0.96373	0.77094	51.084
R267	126	27.0525	-2.9235	5.8095	1.0911	0.0000	0.0000	0.0000	0.0000	0.96685	0.78346	51.584
D10006	127	28.5363	-3.0117	5.2875	0.9968	0.0000	0.0000	0.0000	0.0000	0.96828	0.79064	51.834
R268	128	31.7179	-3.1879	4.3979	0.8086	0.0000	0.0000	0.0000	0.0000	0.97092	0.80717	52.334
D10082	129	36.8543	-3.4598	3.3729	0.5180	0.0000	0.0000	0.0000	0.0000	0.97452	0.83932	53.107
MAT2L07H	130	36.8543	-3.4598	3.3729	0.5180	0.0000	0.0000	0.0000	0.0000	0.97452	0.83932	53.107
D10083	131	39.6745	-3.6004	3.0190	0.3678	0.0000	0.0000	0.0000	0.0000	0.97618	0.85929	53.506
IPM2L07	132	39.6745	-3.6004	3.0190	0.3678	0.0000	0.0000	0.0000	0.0000	0.97618	0.85929	53.506
D10084	133	39.7967	-3.6064	3.0067	0.3614	0.0000	0.0000	0.0000	0.0000	0.97625	0.86019	53.523
MQSSL	134	40.3033	-3.6310	2.9579	0.3351	0.0000	0.0000	0.0000	0.0000	0.97653	0.86392	53.593
D10010	135	41.0330	-3.6662	2.8947	0.2975	0.0000	0.0000	0.0000	0.0000	0.97692	0.86936	53.693
MQB2L07	136	41.0146	-3.7875	2.8918	-0.2782	0.0000	0.0000	0.0000	0.0000	0.97750	0.87766	53.843
D10080	137	33.0736	-3.3726	3.9671	-0.6914	0.0000	0.0000	0.0000	0.0000	0.98229	0.93075	54.952
R271	138	29.8797	-3.1858	4.7633	-0.8774	0.0000	0.0000	0.0000	0.0000	0.98483	0.94910	55.452
D10006	139	28.3101	-3.0925	5.2252	-0.9703	0.0000	0.0000	0.0000	0.0000	0.98619	0.95707	55.702
R272	140	25.3833	-2.9062	6.3038	-1.1558	0.0000	0.0000	0.0000	0.0000	0.98916	0.97096	56.202
D10081	141	21.7059	-2.6603	7.9926	-1.4006	0.0000	0.0000	0.0000	0.0000	0.99364	0.98579	56.863
R273	142	19.1936	-2.4745	9.5093	-1.5856	0.0000	0.0000	0.0000	0.0000	0.99754	0.99492	57.363
D10006	143	17.9795	-2.3817	10.3252	-1.6780	0.0000	0.0000	0.0000	0.0000	0.99968	0.99894	57.613
R274	144	15.7357	-2.1964	12.1257	-1.8626	0.0000	0.0000	0.0000	0.0000	1.00441	1.00606	58.113
D10081	145	12.9952	-1.9519	14.7474	-2.1060	0.0000	0.0000	0.0000	0.0000	1.01177	1.01392	58.774
R275	146	11.1681	-1.7671	16.9880	-2.2901	0.0000	0.0000	0.0000	0.0000	1.01838	1.01895	59.274
D10006	147	10.3076	-1.6748	18.1560	-2.3820	0.0000	0.0000	0.0000	0.0000	1.02209	1.02121	59.524
R276	148	8.7504	-1.4905	20.6816	-2.5655	0.0000	0.0000	0.0000	0.0000	1.03047	1.02532	60.024
D10081	149	6.9418	-1.2473	24.2313	-2.8077	0.0000	0.0000	0.0000	0.0000	1.04398	1.03002	60.684
R277	150	5.8034	-1.0634	27.1991	-2.9908	0.0000	0.0000	0.0000	0.0000	1.05653	1.03312	61.184
D10006	151	5.2947	-0.9716	28.7173	-3.0822	0.0000	0.0000	0.0000	0.0000	1.06371	1.03454	61.434
R278	152	4.4276	-0.7883	31.9714	-3.2647	0.0000	0.0000	0.0000	0.0000	1.08017	1.03717	61.934
D10085	153	3.2237	-0.4249	38.8099	-3.6266	0.0000	0.0000	0.0000	0.0000	1.12247	1.04165	62.927
MAT2L08V	154	3.2237	-0.4249	38.8099	-3.6266	0.0000	0.0000	0.0000	0.0000	1.12247	1.04165	62.927
D10078	155	3.0828	-0.3591	40.1256	-3.6922	0.0000	0.0000	0.0000	0.0000	1.13155	1.04238	63.106
IPM2L08	156	3.0828	-0.3591	40.1256	-3.6922	0.0000	0.0000	0.0000	0.0000	1.13155	1.04238	63.106
D10084	157	3.0707	-0.3529	40.2059	-3.6983	0.0000	0.0000	0.0000	0.0000	1.13243	1.04245	63.123
MQSSL	158	3.0231	-0.3272	40.7705	-3.7239	0.0000	0.0000	0.0000	0.0000	1.13609	1.04272	63.193
D10010	159	2.9613	-0.2906	41.5189	-3.7603	0.0000	0.0000	0.0000	0.0000	1.14141	1.04311	63.293
MQB2L08	160	2.9622	-0.2963	41.5154	3.7831	0.0000	0.0000	0.0000	0.0000	1.14951	1.04368	63.443
D10080	161	4.0710	-0.7035	33.5776	3.3741	0.0000	0.0000	0.0000	0.0000	1.20124	1.04841	64.552
R281	162	4.8781	-0.8869	30.3804	3.1899	0.0000	0.0000	0.0000	0.0000	1.21914	1.05090	65.052
D10006	163	5.3444	-0.9785	28.8084	3.0980	0.0000	0.0000	0.0000	0.0000	1.22693	1.05225	65.302
R282	164	6.4299	-1.1614	25.8746	2.9143	0.0000	0.0000	0.0000	0.0000	1.24053	1.05516	65.802
D10081	165	8.1238	-1.4027	22.1842	2.6719	0.0000	0.0000	0.0000	0.0000	1.25509	1.05955	66.463
R283	166	9.6410	-1.5851	19.6591	2.4887	0.0000	0.0000	0.0000	0.0000	1.26409	1.06336	66.963
D10006	167	10.4563	-1.6761	18.4376	2.3972	0.0000	0.0000	0.0000	0.0000	1.26805	1.06545	67.213
R284	168	12.2533	-1.8581	16.1773	2.2145	0.0000	0.0000	0.0000	0.0000	1.27509	1.07006	67.713
D10081	169	14.8669	-2.0981	13.4106	1.9734	0.0000	0.0000	0.0000	0.0000	1.28288	1.07720	68.374
R285	170	17.0976	-2.2796	11.5611	1.7912	0.0000	0.0000	0.0000	0.0000	1.28787	1.08359	68.874
D10006	171	18.2600	-2.3702	10.6883	1.7002	0.0000	0.0000	0.0000	0.0000	1.29012	1.08717	69.124
R286	172	20.7717	-2.5511	9.1049	1.5184	0.0000	0.0000	0.0000	0.0000	1.29421	1.09524	69.624
D10081	173	24.3002	-2.7899	7.2572	1.2786	0.0000	0.0000	0.0000	0.0000	1.29889	1.10819	70.284
R287	174	27.2476	-2.9704	6.0867	1.0973	0.0000	0.0000	0.0000	0.0000	1.30198	1.12018	70.784
D10006	175	28.7553	-3.0606	5.5606	1.0067	0.0000	0.0000	0.0000	0.0000	1.30340	1.12702	71.034
R288	176	31.9849	-3.2406	4.6576	0.8259	0.0000	0.0000	0.0000	0.0000	1.30603	1.14268	71.534
D10082	177	37.2073	-3.5184	3.5969	0.5469	0.0000	0.0000	0.0000	0.0000	1.30959	1.17290	72.307
MAT2L09H	178	37.2073	-3.5184	3.5969	0.5469	0.0000	0.0000	0.0000	0.0000	1.30959	1.17290	72.307
D10083	179	40.0756	-3.6621	3.2176	0.4026	0.0000	0.0000	0.0000	0.0000	1.31124	1.19163	72.706
IPM2L09	180	40.0756	-3.6621	3.2176	0.4026	0.0000	0.0000	0.0000	0.0000	1.31124	1.19163	72.706
D10084	181	40.1998	-3.6682	3.2041	0.3965	0.0000	0.0000	0.0000	0.0000	1.31131	1.19248	72.723
MQSSL	182	40.7151	-3.6933	3.1504	0.3712	0.0000	0.0000	0.0000	0.0000	1.31158	1.19598	72.793
D10010	183	41.4574	-3.7293	3.0797	0.3351	0.0000	0.0000	0.0000	0.0000	1.31197	1.20109	72.893
MQB2L09	184	41.4463	-3.8023	3.0701	-0.2704	0.0000	0.0000	0.0000	0.0000	1.31254	1.20889	73.043
D10080	185	33.4711	-3.3887	4.0999	-0.6581	0.0000	0.0000	0.0000	0.0000	1.31728	1.25949	74.152
R291	186	30.2583	-3.2024	4.8569	-0.8326	0.0000	0.0000	0.0000	0.0000	1.31978	1.27737	74.652
D10006	187	28.6803	-3.1094	5.2950	-0.9198	0.0000	0.0000	0.0000	0.0000	1.32113	1.28521	74.902
R292	188	25.7341	-2.9237	6.3169	-1.0939	0.0000	0.0000	0.0000	0.0000	1.32406	1.29899	75.402
D10081	189	22.0331	-2.6786	7.9140	-1.3236	0.0000	0.0000	0.0000	0.0000	1.32848	1.31388	76.063
R293	190	19.5008	-2.4933	9.3467	-1.4973	0.0000	0.0000	0.0000	0.0000	1.33232	1.32314	76.563
D10006	191	18.2773	-2.4008	10.1170	-1.5840	0.0000	0.0000	0.0000	0.0000	1.33443	1.32723	76.813
R294	192	16.0130	-2.2160	11.8158	-1.7572	0.0000	0.0000	0.0000	0.0000	1.33908	1.33451	77.313
D10081	193	13.2462	-1.9722	14.2884	-1.9857	0.0000	0.0000	0.0000	0.0000	1.34630	1.34261	77.974
R295	194	11.3979	-1.7878	16.3999	-2.1585	0.0000	0.0000	0.0000	0.0000	1.35278	1.34781	78.474
D10006	195	10.5270	-1.6958	17.5007	-2.2447	0.0000	0.0000	0.0000	0.0000	1.35641	1.35016	78.724
R296	196	8.9481	-1.5119	19.8795	-2.4170	0.0000	0.0000	0.0000	0.0000	1.36461	1.35442	79.224
D10081	197	7.1107	-1.2693	23.2232	-2.6444	0.0000	0.0000	0.0000	0.0000	1.37781	1.3	

R2A4	218	11.9936	-1.8060	15.2211	2.1037	0.0000	0.0000	0.0000	0.0000	1.60722	1.40153	86.913
D10081	219	14.5348	-2.0407	12.5972	1.8682	0.0000	0.0000	0.0000	0.0000	1.61519	1.40913	87.574
R2A5	220	16.7035	-2.2181	10.8475	1.6902	0.0000	0.0000	0.0000	0.0000	1.62030	1.41594	88.074
D10006	221	17.8347	-2.3067	10.0246	1.6013	0.0000	0.0000	0.0000	0.0000	1.62260	1.41975	88.324
R2A6	222	20.2778	-2.4837	8.5353	1.4238	0.0000	0.0000	0.0000	0.0000	1.62679	1.42836	88.824
D10081	223	23.7137	-2.7173	6.8090	1.1895	0.0000	0.0000	0.0000	0.0000	1.63158	1.44217	89.484
R2A7	224	26.5822	-2.8938	5.7237	1.0124	0.0000	0.0000	0.0000	0.0000	1.63475	1.45493	89.984
D10006	225	28.0511	-2.9820	5.2397	0.9239	0.0000	0.0000	0.0000	0.0000	1.63621	1.46220	90.234
R2A8	226	31.1952	-3.1581	4.4161	0.7473	0.0000	0.0000	0.0000	0.0000	1.63890	1.47877	90.734
D10082	227	36.2854	-3.4299	3.4720	0.4746	0.0000	0.0000	0.0000	0.0000	1.64255	1.51038	91.507
MAT2L11H	228	36.2854	-3.4299	3.4720	0.4746	0.0000	0.0000	0.0000	0.0000	1.64255	1.51038	91.507
D10083	229	39.0816	-3.5704	3.1492	0.3336	0.0000	0.0000	0.0000	0.0000	1.64424	1.52966	91.906
IPM2L11	230	39.0816	-3.5704	3.1492	0.3336	0.0000	0.0000	0.0000	0.0000	1.64424	1.52966	91.906
D10084	231	39.2028	-3.5763	3.1380	0.3277	0.0000	0.0000	0.0000	0.0000	1.64431	1.53051	91.923
MQSSSL	232	39.7052	-3.6010	3.0938	0.3030	0.0000	0.0000	0.0000	0.0000	1.64459	1.53409	91.993
D10010	233	40.4289	-3.6361	3.0368	0.2677	0.0000	0.0000	0.0000	0.0000	1.64499	1.53928	92.093
MQB2L11	234	40.4180	3.7084	3.0464	-0.3324	0.0000	0.0000	0.0000	0.0000	1.64558	1.54717	92.243
D10080	235	32.6412	3.3036	4.2320	-0.7366	0.0000	0.0000	0.0000	0.0000	1.65044	1.59715	93.352
R2B1	236	29.5062	3.1213	5.0712	-0.9187	0.0000	0.0000	0.0000	0.0000	1.65300	1.61436	93.852
D10006	237	27.9683	3.0303	5.5533	-1.0096	0.0000	0.0000	0.0000	0.0000	1.65439	1.62186	94.102
R2B2	238	25.0948	2.8485	6.6688	-1.1911	0.0000	0.0000	0.0000	0.0000	1.65739	1.63495	94.602
D10081	239	21.4897	2.6086	8.4009	-1.4308	0.0000	0.0000	0.0000	0.0000	1.66192	1.64902	95.263
R2B3	240	19.0221	2.4272	9.9450	-1.6119	0.0000	0.0000	0.0000	0.0000	1.66586	1.65773	95.763
D10006	241	17.8311	2.3366	10.7735	-1.7023	0.0000	0.0000	0.0000	0.0000	1.66802	1.66157	96.013
R2B4	242	15.6263	2.1557	12.5951	-1.8830	0.0000	0.0000	0.0000	0.0000	1.67279	1.66841	96.513
D10081	243	12.9358	1.9170	15.2406	-2.1215	0.0000	0.0000	0.0000	0.0000	1.68018	1.67600	97.174
R2B5	244	11.1387	1.7365	17.4925	-2.3017	0.0000	0.0000	0.0000	0.0000	1.68682	1.68087	97.674
D10006	245	10.2930	1.6464	18.6659	-2.3917	0.0000	0.0000	0.0000	0.0000	1.69053	1.68307	97.924
R2B6	246	8.7601	1.4664	21.1965	-2.5715	0.0000	0.0000	0.0000	0.0000	1.69892	1.68707	98.424
D10081	247	6.9796	1.2288	24.7508	-2.8087	0.0000	0.0000	0.0000	0.0000	1.71238	1.69167	99.084
R2B7	248	5.8563	1.0492	27.7136	-2.9881	0.0000	0.0000	0.0000	0.0000	1.72484	1.69470	99.584
D10006	249	5.3542	0.9595	29.2301	-3.0777	0.0000	0.0000	0.0000	0.0000	1.73195	1.69610	99.834
R2B8	250	4.4963	0.7804	32.4727	-3.2566	0.0000	0.0000	0.0000	0.0000	1.74819	1.69869	100.334
D10082	251	3.5040	0.5039	37.7185	-3.5327	0.0000	0.0000	0.0000	0.0000	1.77937	1.70220	101.107
MAT2L12V	252	3.5040	0.5039	37.7185	-3.5327	0.0000	0.0000	0.0000	0.0000	1.77937	1.70220	101.107
D10083	253	3.1585	0.3609	40.5979	-3.6755	0.0000	0.0000	0.0000	0.0000	1.79853	1.70382	101.506
IPM2L12	254	3.1585	0.3609	40.5979	-3.6755	0.0000	0.0000	0.0000	0.0000	1.79853	1.70382	101.506
D10084	255	3.1464	0.3549	40.7226	-3.6815	0.0000	0.0000	0.0000	0.0000	1.79939	1.70389	101.523
MQSSSL	256	3.0985	0.3298	41.2397	-3.7065	0.0000	0.0000	0.0000	0.0000	1.80295	1.70416	101.593
D10010	257	3.0361	0.2940	41.9846	-3.7423	0.0000	0.0000	0.0000	0.0000	1.80814	1.70454	101.693
MQB2L12	258	3.0377	-0.3052	41.9631	3.8842	0.0000	0.0000	0.0000	0.0000	1.81604	1.70511	101.843
D10080	259	4.1572	-0.7043	33.8190	3.4591	0.0000	0.0000	0.0000	0.0000	1.86656	1.70980	102.952
R2C1	260	4.9625	-0.8840	30.5343	3.2676	0.0000	0.0000	0.0000	0.0000	1.88411	1.71227	103.452
D10006	261	5.4269	-0.9737	28.9244	3.1720	0.0000	0.0000	0.0000	0.0000	1.89178	1.71361	103.702
R2C2	262	6.5048	-1.1530	25.9147	2.9810	0.0000	0.0000	0.0000	0.0000	1.90519	1.71652	104.202
D10081	263	8.1844	-1.3895	22.1425	2.7290	0.0000	0.0000	0.0000	0.0000	1.91962	1.72091	104.863
R2C3	264	9.6851	-1.5684	19.5595	2.5385	0.0000	0.0000	0.0000	0.0000	1.92857	1.72473	105.363
D10006	265	10.4916	-1.6577	18.3140	2.4433	0.0000	0.0000	0.0000	0.0000	1.93251	1.72684	105.613
R2C4	266	12.2661	-1.8361	16.0074	2.2533	0.0000	0.0000	0.0000	0.0000	1.93953	1.73148	106.113
D10081	267	14.8476	-2.0715	13.1959	2.0025	0.0000	0.0000	0.0000	0.0000	1.94733	1.73872	106.774
R2C5	268	17.0466	-2.2495	11.3179	1.8129	0.0000	0.0000	0.0000	0.0000	1.95233	1.74523	107.274
D10006	269	18.1936	-2.3383	10.4352	1.7182	0.0000	0.0000	0.0000	0.0000	1.95459	1.74890	107.524
R2C6	270	20.6676	-2.5159	8.8348	1.5290	0.0000	0.0000	0.0000	0.0000	1.95869	1.75719	108.024
D10081	271	24.1465	-2.7502	6.9794	1.2794	0.0000	0.0000	0.0000	0.0000	1.96340	1.77059	108.684
R2C7	272	27.0468	-2.9273	5.8097	1.0908	0.0000	0.0000	0.0000	0.0000	1.96651	1.78310	109.184
D10006	273	28.5326	-3.0157	5.2879	0.9965	0.0000	0.0000	0.0000	0.0000	1.96795	1.79028	109.434
R2C8	274	31.7090	-3.1924	4.3971	0.8083	0.0000	0.0000	0.0000	0.0000	1.97059	1.80682	109.934
D10082	275	36.8530	-3.4651	3.3725	0.6378	0.0000	0.0000	0.0000	0.0000	1.97419	1.83897	110.707
MAT2L13H	276	36.8530	-3.4651	3.3725	0.6378	0.0000	0.0000	0.0000	0.0000	1.97419	1.83897	110.707
D10083	277	39.6776	-3.6061	3.0189	0.3676	0.0000	0.0000	0.0000	0.0000	1.97585	1.85894	111.106
IPM2L13	278	39.6776	-3.6061	3.0189	0.3676	0.0000	0.0000	0.0000	0.0000	1.97585	1.85894	111.106
D10084	279	39.8000	-3.6121	3.0065	0.3612	0.0000	0.0000	0.0000	0.0000	1.97592	1.85984	111.123
MQSSSL	280	40.3074	-3.6368	2.9578	0.3349	0.0000	0.0000	0.0000	0.0000	1.97620	1.86358	111.193
D10010	281	41.0383	-3.6721	2.8946	0.2973	0.0000	0.0000	0.0000	0.0000	1.97659	1.86902	111.293
MQB2L13	282	41.0215	3.7828	2.8917	-0.2784	0.0000	0.0000	0.0000	0.0000	1.97717	1.87731	111.443
D10080	283	33.0900	3.3689	3.9675	-0.6916	0.0000	0.0000	0.0000	0.0000	1.98196	1.93040	112.552
R2D1	284	29.8898	3.1825	4.7627	-0.8777	0.0000	0.0000	0.0000	0.0000	1.98449	1.94875	113.052
D10006	285	28.3218	3.0894	5.2248	-0.9706	0.0000	0.0000	0.0000	0.0000	1.98586	1.95673	113.302
R2D2	286	25.3896	2.9035	6.3020	-1.1563	0.0000	0.0000	0.0000	0.0000	1.98883	1.97061	113.802
D10081	287	21.7154	2.6581	7.9916	-1.4013	0.0000	0.0000	0.0000	0.0000	1.99330	1.98545	114.463
R2D3	288	19.1989	2.4726	9.5063	-1.5865	0.0000	0.0000	0.0000	0.0000	1.99720	1.99459	114.963
D10006	289	17.9857	2.3800	10.3226	-1.6789	0.0000	0.0000	0.0000	0.0000	1.99934	1.99860	115.213
R2D4	290	15.7384	2.1949	12.1206	-1.8637	0.0000	0.0000	0.0000	0.0000	2.00407	2.00572	115.713
D10081	291	12.9997	1.9507	14.7441	-2.1075	0.0000	0.0000	0.0000	0.0000	2.01143	2.01359	116.374
R2D5	292	11.1699	1.7661	16.9814	-2.2918	0.0000	0.0000	0.0000	0.0000	2.01803	2.01862	116.874
D10006	293	10.3099	1.6739	18.1504	-2.3839	0.0000	0.0000	0.0000	0.0000	2.02174	2.02088	117.124
R2D6	294	8.7506	1.4898	20.6721	-2.5678	0.0000	0.0000	0.0000	0.0000	2.03012	2.02499	117.624
D10081	295	6.9428	1.2467	24.2251	-2.8104	0.0000	0.0000	0.0000	0.0000	2.04363	2.02969	118.284
R2D7	296	5.8030	1.0630	27.1879	-2.9939	0.0000	0.0000	0.0000	0.0000	2.05618	2.03279	118.784
D10006	297	5.2945	0.9712	28.7078	-3.0855	0.0000	0.0000	0.0000	0.0000	2.06336	2.03422	119.034
R2D8	298	4.4264	0.7879	31.9562	-3.2685	0.0000	0.0000	0.0000	0.0000	2.07983	2.03684	119.534
D10086	299	3.5512	0.5480	36.3954	-3.5080	0.0000	0.0000	0.0000	0.0000	2.10624	2.03990	120.189
ITV2L14	300	3.5512	0.5480	36.3954	-3.5080	0.0000	0.0000	0.0000	0.0000	2.10624	2.03990	120.189
D10077	301	3.2232	0.4246	38.8032	-3.6313	0.0						

R2E7	322	27.2397	-2.9737	6.0858	1.0965	0.0000	0.0000	0.0000	0.0000	2.30166	2.11985	128.384
D10006	323	28.7492	-3.0641	5.5602	1.0061	0.0000	0.0000	0.0000	0.0000	2.30308	2.12669	128.634
R2E8	324	31.9737	-3.2445	4.6563	0.8253	0.0000	0.0000	0.0000	0.0000	2.30571	2.14235	129.134
D10082	325	37.2027	-3.5231	3.5965	0.5464	0.0000	0.0000	0.0000	0.0000	2.30927	2.17259	129.907
MAT2L15H	326	37.2027	-3.5231	3.5965	0.5464	0.0000	0.0000	0.0000	0.0000	2.30927	2.17259	129.907
D10083	327	40.0748	-3.6671	3.2176	0.4621	0.0000	0.0000	0.0000	0.0000	2.31092	2.19132	130.306
IPM2L15	328	40.0748	-3.6671	3.2176	0.4621	0.0000	0.0000	0.0000	0.0000	2.31092	2.19132	130.306
D10084	329	40.1993	-3.6732	3.2041	0.3960	0.0000	0.0000	0.0000	0.0000	2.31099	2.19216	130.323
MQSSL	330	40.7153	-3.6984	3.1504	0.3707	0.0000	0.0000	0.0000	0.0000	2.31126	2.19567	130.393
D10010	331	41.4586	-3.7345	3.0798	0.3346	0.0000	0.0000	0.0000	0.0000	2.31165	2.20078	130.493
MQB2L15	332	41.4491	-3.7975	3.0704	-0.2709	0.0000	0.0000	0.0000	0.0000	2.31222	2.20858	130.643
D10080	333	33.4835	-3.3848	4.1013	-0.6586	0.0000	0.0000	0.0000	0.0000	2.31696	2.25917	131.752
R2F1	334	30.2651	-3.1990	4.8576	-0.8332	0.0000	0.0000	0.0000	0.0000	2.31946	2.27703	132.252
D10006	335	28.6888	-3.1062	5.2960	-0.9204	0.0000	0.0000	0.0000	0.0000	2.32081	2.28488	132.502
R2F2	336	25.7379	-2.9209	6.3169	-1.0946	0.0000	0.0000	0.0000	0.0000	2.32374	2.29866	133.002
D10081	337	22.0403	-2.6762	7.9151	-1.3245	0.0000	0.0000	0.0000	0.0000	2.32816	2.31355	133.663
R2F3	338	19.5043	-2.4913	9.3463	-1.4983	0.0000	0.0000	0.0000	0.0000	2.33199	2.32281	134.163
D10006	339	18.2817	-2.3989	10.1172	-1.5851	0.0000	0.0000	0.0000	0.0000	2.33410	2.32690	134.413
R2F4	340	16.0144	-2.2144	11.8141	-1.7585	0.0000	0.0000	0.0000	0.0000	2.33875	2.33418	134.913
D10081	341	13.2495	-1.9708	14.2887	-1.9873	0.0000	0.0000	0.0000	0.0000	2.34597	2.34227	135.574
R2F5	342	11.3989	-1.7867	16.3976	-2.1603	0.0000	0.0000	0.0000	0.0000	2.35245	2.34747	136.074
D10006	343	10.5286	-1.6948	17.4994	-2.2468	0.0000	0.0000	0.0000	0.0000	2.35608	2.34982	136.324
R2F6	344	8.9478	-1.5111	19.8751	-2.4194	0.0000	0.0000	0.0000	0.0000	2.36429	2.35409	136.824
D10081	345	7.1114	-1.2687	23.2222	-2.6472	0.0000	0.0000	0.0000	0.0000	2.37748	2.35899	137.484
R2F7	346	5.9493	-1.0854	26.0115	-2.8194	0.0000	0.0000	0.0000	0.0000	2.38973	2.36222	137.984
D10006	347	5.4294	-0.9939	27.4426	-2.9054	0.0000	0.0000	0.0000	0.0000	2.39673	2.36371	138.234
R2F8	348	4.5383	-0.8110	30.4997	-3.0772	0.0000	0.0000	0.0000	0.0000	2.41279	2.36646	138.734
D10085	349	3.2883	-0.4485	36.9450	-3.4178	0.0000	0.0000	0.0000	0.0000	2.45414	2.37117	139.727
MAT2L16V	350	3.2883	-0.4485	36.9450	-3.4178	0.0000	0.0000	0.0000	0.0000	2.45414	2.37117	139.727
D10078	351	3.1389	-0.3829	38.1849	-3.4795	0.0000	0.0000	0.0000	0.0000	2.46305	2.37193	139.906
IPM2L16	352	3.1389	-0.3829	38.1849	-3.4795	0.0000	0.0000	0.0000	0.0000	2.46305	2.37193	139.906
D10084	353	3.1260	-0.3767	38.3030	-3.4853	0.0000	0.0000	0.0000	0.0000	2.46391	2.37200	139.923
MQSSL	354	3.0751	-0.3511	38.7926	-3.5094	0.0000	0.0000	0.0000	0.0000	2.46750	2.37229	139.993
D10010	355	3.0085	-0.3146	39.4979	-3.5437	0.0000	0.0000	0.0000	0.0000	2.47273	2.37270	140.093
MQB2L16	356	3.0033	-0.2795	39.4847	-3.6313	0.0000	0.0000	0.0000	0.0000	2.48072	2.37330	140.243
D10080	357	4.0649	-0.6777	31.8719	-3.2328	0.0000	0.0000	0.0000	0.0000	2.53212	2.37828	141.352
R2G1	358	4.8423	-0.8570	28.7975	-3.0534	0.0000	0.0000	0.0000	0.0000	2.55010	2.38090	141.852
D10006	359	5.2931	-0.9465	27.2932	-2.9638	0.0000	0.0000	0.0000	0.0000	2.55796	2.38232	142.102
R2G2	360	6.3422	-1.1254	24.4775	-2.7847	0.0000	0.0000	0.0000	0.0000	2.57171	2.38540	142.602
D10081	361	7.9851	-1.3615	20.9542	-2.5485	0.0000	0.0000	0.0000	0.0000	2.58651	2.39004	143.263
R2G3	362	9.4555	-1.5400	18.5396	-2.3698	0.0000	0.0000	0.0000	0.0000	2.59567	2.39408	143.763
D10006	363	10.2478	-1.6291	17.3770	-2.2806	0.0000	0.0000	0.0000	0.0000	2.59971	2.39630	144.013
R2G4	364	11.9909	-1.8072	15.2222	-2.1024	0.0000	0.0000	0.0000	0.0000	2.60690	2.40119	144.513
D10081	365	14.5339	-2.0422	12.5999	-1.8672	0.0000	0.0000	0.0000	0.0000	2.61486	2.40879	145.174
R2G5	366	16.7000	-2.2199	10.8479	-1.6893	0.0000	0.0000	0.0000	0.0000	2.61997	2.41560	145.674
D10006	367	17.8321	-2.3086	10.0255	-1.6005	0.0000	0.0000	0.0000	0.0000	2.62228	2.41941	145.924
R2G6	368	20.2721	-2.4859	8.5345	-1.4231	0.0000	0.0000	0.0000	0.0000	2.62646	2.42802	146.424
D10081	369	23.7111	-2.7199	6.8089	-1.1889	0.0000	0.0000	0.0000	0.0000	2.63126	2.44183	147.084
R2G7	370	26.5757	-2.8968	5.7225	-1.0119	0.0000	0.0000	0.0000	0.0000	2.63443	2.45459	147.584
D10006	371	28.0461	-2.9851	5.2387	-0.9235	0.0000	0.0000	0.0000	0.0000	2.63589	2.46186	147.834
R2G8	372	31.1855	-3.1616	4.4143	-0.7468	0.0000	0.0000	0.0000	0.0000	2.63858	2.47844	148.334
D10082	373	36.2816	-3.4340	3.4709	-0.4742	0.0000	0.0000	0.0000	0.0000	2.64223	2.51006	149.107
MAT2L17H	374	36.2816	-3.4340	3.4709	-0.4742	0.0000	0.0000	0.0000	0.0000	2.64223	2.51006	149.107
D10083	375	39.0814	-3.5749	3.1484	-0.3332	0.0000	0.0000	0.0000	0.0000	2.64392	2.52934	149.506
IPM2L17	376	39.0814	-3.5749	3.1484	-0.3332	0.0000	0.0000	0.0000	0.0000	2.64392	2.52934	149.506
D10084	377	39.2027	-3.5808	3.1372	-0.3272	0.0000	0.0000	0.0000	0.0000	2.64399	2.53020	149.523
MQSSL	378	39.7057	-3.6055	3.0931	-0.3025	0.0000	0.0000	0.0000	0.0000	2.64427	2.53378	149.593
D10010	379	40.4304	-3.6408	3.0361	-0.2672	0.0000	0.0000	0.0000	0.0000	2.64467	2.53897	149.693
MQB2L17	380	40.4208	-3.7042	3.0459	-0.3327	0.0000	0.0000	0.0000	0.0000	2.64526	2.54686	149.843
D10080	381	32.6524	-3.3003	4.2324	-0.7371	0.0000	0.0000	0.0000	0.0000	2.65012	2.59684	150.951
R2H1	382	29.5123	-3.1184	5.0709	-0.9192	0.0000	0.0000	0.0000	0.0000	2.65268	2.61405	151.452
D10006	383	27.9759	-3.0275	5.5533	-1.0102	0.0000	0.0000	0.0000	0.0000	2.65407	2.62155	151.702
R2H2	384	25.0980	-2.8460	6.6679	-1.1919	0.0000	0.0000	0.0000	0.0000	2.65707	2.63464	152.202
D10081	385	21.4959	-2.6065	8.4012	-1.4318	0.0000	0.0000	0.0000	0.0000	2.66160	2.64871	152.863
R2H3	386	19.0249	-2.4254	9.9439	-1.6131	0.0000	0.0000	0.0000	0.0000	2.66553	2.65742	153.363
D10006	387	17.8348	-2.3350	10.7731	-1.7036	0.0000	0.0000	0.0000	0.0000	2.66769	2.66126	153.613
R2H4	388	15.6271	-2.1543	12.5930	-1.8845	0.0000	0.0000	0.0000	0.0000	2.67246	2.66810	154.113
D10081	389	12.9383	-1.9158	15.2407	-2.1233	0.0000	0.0000	0.0000	0.0000	2.67986	2.67569	154.774
R2H5	390	11.1392	-1.7355	17.4904	-2.3038	0.0000	0.0000	0.0000	0.0000	2.68649	2.68057	155.274
D10006	391	10.2940	-1.6455	18.6649	-2.3940	0.0000	0.0000	0.0000	0.0000	2.69020	2.68277	155.524
R2H6	392	8.7594	-1.4656	21.1928	-2.5741	0.0000	0.0000	0.0000	0.0000	2.69859	2.68677	156.024
D10081	393	6.9798	-1.2282	24.7509	-2.8118	0.0000	0.0000	0.0000	0.0000	2.71205	2.69136	156.684
R2H7	394	5.8555	-1.0487	27.7102	-2.9916	0.0000	0.0000	0.0000	0.0000	2.72451	2.69440	157.184
D10006	395	5.3535	-0.9590	29.2284	-3.0813	0.0000	0.0000	0.0000	0.0000	2.73162	2.69580	157.434
R2H8	396	4.4948	-0.7799	32.4670	-3.2670	0.0000	0.0000	0.0000	0.0000	2.74787	2.69838	157.934
D10086	397	3.6265	-0.5455	36.8927	-3.4953	0.0000	0.0000	0.0000	0.0000	2.77381	2.70139	158.589
ITV2L18	398	3.6265	-0.5455	36.8927	-3.4953	0.0000	0.0000	0.0000	0.0000	2.77381	2.70139	158.589
D10077	399	3.2993	-0.4249	39.2912	-3.6162	0.0000	0.0000	0.0000	0.0000	2.78935	2.70280	158.926
MAT2L18V	400	3.2993	-0.4249	39.2912	-3.6162	0.0000	0.0000	0.0000	0.0000	2.78935	2.70280	158.926
D10078	401	3.1581	-0.3605	40.6029	-3.6806	0.0000	0.0000	0.0000	0.0000	2.79822	2.70352	159.106
IPM2L18	402	3.1581	-0.3605	40.6029	-3.6806	0.0000	0.0000	0.0000	0.0000	2.79822	2.70352	159.106
D10084	403	3.1459	-0.3545	40.7278	-3.6867	0.0000	0.0000	0.0000	0.0000	2.79908	2.70359	159.123
MQSSL	404	3.0981	-0.3294	41.2457	-3.7117	0.0000	0.0000	0.0000	0.0000	2.80265	2.70386	159.193
D10010	405	3.0358	-0.2936</									

IPM2L19	426	39.6805	-3.6107	3.0187	0.3674	0.0000	0.0000	0.0000	0.0000	2.97554	2.85862	168.706
D10084	427	39.8030	-3.6167	3.0064	0.3610	0.0000	0.0000	0.0000	0.0000	2.97561	2.85952	168.723
MQSSL	428	40.3110	-3.6414	2.9577	0.3347	0.0000	0.0000	0.0000	0.0000	2.97589	2.86326	168.793
D10010	429	41.0429	-3.6768	2.8945	0.2971	0.0000	0.0000	0.0000	0.0000	2.97628	2.86870	168.893
MQB2L19	430	41.0274	3.7790	2.8917	-0.2785	0.0000	0.0000	0.0000	0.0000	2.97686	2.87699	169.043
D10080	431	33.1033	3.3659	3.9679	-0.6918	0.0000	0.0000	0.0000	0.0000	2.98165	2.93008	170.152
R2J1	432	29.8981	3.1799	4.7621	-0.8779	0.0000	0.0000	0.0000	0.0000	2.98418	2.94843	170.652
D10006	433	28.3313	3.0870	5.2243	-0.9709	0.0000	0.0000	0.0000	0.0000	2.98555	2.95641	170.902
R2J2	434	25.3948	2.9014	6.3005	-1.1566	0.0000	0.0000	0.0000	0.0000	2.98851	2.97030	171.402
D10081	435	21.7232	2.6564	7.9906	-1.4017	0.0000	0.0000	0.0000	0.0000	2.99299	2.98513	172.063
R2J3	436	19.2033	2.4711	9.5037	-1.5871	0.0000	0.0000	0.0000	0.0000	2.99689	2.99427	172.563
D10006	437	17.9908	2.3786	10.3204	-1.6796	0.0000	0.0000	0.0000	0.0000	2.99903	2.99829	172.813
R2J4	438	15.7407	2.1938	12.1164	-1.8646	0.0000	0.0000	0.0000	0.0000	3.00376	3.00541	173.313
D10081	439	13.0033	1.9498	14.7412	-2.1086	0.0000	0.0000	0.0000	0.0000	3.01111	3.01328	173.974
R2J5	440	11.1715	1.7654	16.9759	-2.2932	0.0000	0.0000	0.0000	0.0000	3.01771	3.01831	174.474
D10006	441	10.3118	1.6733	18.1455	-2.3853	0.0000	0.0000	0.0000	0.0000	3.02142	3.02058	174.724
R2J6	442	8.7508	1.4892	20.6642	-2.5695	0.0000	0.0000	0.0000	0.0000	3.02980	3.02469	175.224
D10081	443	6.9437	1.2463	24.2197	-2.8125	0.0000	0.0000	0.0000	0.0000	3.04331	3.02939	175.884
R2J7	444	5.8028	1.0626	27.1786	-2.9963	0.0000	0.0000	0.0000	0.0000	3.05586	3.03249	176.384
D10006	445	5.2944	0.9709	28.6997	-3.0881	0.0000	0.0000	0.0000	0.0000	3.06304	3.03391	176.634
R2J8	446	4.4254	0.7876	31.9436	-3.2714	0.0000	0.0000	0.0000	0.0000	3.07951	3.03654	177.134
D10082	447	3.4268	0.5047	37.2177	-3.5545	0.0000	0.0000	0.0000	0.0000	3.11130	3.04011	177.907
MAT2L20V	448	3.4268	0.5047	37.2177	-3.5545	0.0000	0.0000	0.0000	0.0000	3.11130	3.04011	177.907
D10083	449	3.0820	0.3585	40.1159	-3.7008	0.0000	0.0000	0.0000	0.0000	3.13091	3.04175	178.306
IPM2L20	450	3.0820	0.3585	40.1159	-3.7008	0.0000	0.0000	0.0000	0.0000	3.13091	3.04175	178.306
D10084	451	3.0700	0.3523	40.2415	-3.7070	0.0000	0.0000	0.0000	0.0000	3.13179	3.04182	178.323
MQSSL	452	3.0225	0.3266	40.7622	-3.7327	0.0000	0.0000	0.0000	0.0000	3.13544	3.04210	178.393
D10010	453	2.9608	0.2900	41.5124	-3.7693	0.0000	0.0000	0.0000	0.0000	3.14076	3.04248	178.493
MQB2L20	454	2.9618	-0.2968	41.5118	3.7733	0.0000	0.0000	0.0000	0.0000	3.14887	3.04306	178.643
D10080	455	4.0720	-0.7042	33.5938	3.3662	0.0000	0.0000	0.0000	0.0000	3.20060	3.04778	179.752
R2K1	456	4.8774	-0.8877	30.3869	3.1828	0.0000	0.0000	0.0000	0.0000	3.21849	3.05027	180.252
D10006	457	5.3442	-0.9794	28.8184	3.0912	0.0000	0.0000	0.0000	0.0000	3.22629	3.05162	180.502
R2K2	458	6.4275	-1.1625	25.8763	2.9083	0.0000	0.0000	0.0000	0.0000	3.23988	3.05453	181.002
D10081	459	8.1231	-1.4041	22.1932	2.6668	0.0000	0.0000	0.0000	0.0000	3.25446	3.05892	181.663
R2K3	460	9.6372	-1.5869	19.6617	2.4843	0.0000	0.0000	0.0000	0.0000	3.26345	3.06273	182.163
D10006	461	10.4535	-1.6781	18.4423	2.3931	0.0000	0.0000	0.0000	0.0000	3.26742	3.06482	182.413
R2K4	462	12.2466	-1.8605	16.1767	2.2109	0.0000	0.0000	0.0000	0.0000	3.27445	3.06943	182.913
D10081	463	14.8637	-2.1011	13.4144	1.9704	0.0000	0.0000	0.0000	0.0000	3.28225	3.07657	183.574
R2K5	464	17.0892	-2.2831	11.5610	1.7886	0.0000	0.0000	0.0000	0.0000	3.28724	3.08296	184.074
D10006	465	18.2535	-2.3739	10.6894	1.6978	0.0000	0.0000	0.0000	0.0000	3.28950	3.08654	184.324
R2K6	466	20.7590	-2.5555	9.1030	1.5164	0.0000	0.0000	0.0000	0.0000	3.29359	3.09461	184.824
D10081	467	24.2938	-2.7952	7.2576	1.2770	0.0000	0.0000	0.0000	0.0000	3.29827	3.10756	185.484
R2K7	468	27.2333	-2.9764	6.0851	1.0959	0.0000	0.0000	0.0000	0.0000	3.30336	3.11955	185.984
D10006	469	28.7441	-3.0669	5.5598	1.0055	0.0000	0.0000	0.0000	0.0000	3.30278	3.12639	186.234
R2K8	470	31.9646	-3.2477	4.6552	0.8248	0.0000	0.0000	0.0000	0.0000	3.30541	3.14206	186.734
D10082	471	37.1989	-3.5268	3.5961	0.5459	0.0000	0.0000	0.0000	0.0000	3.30898	3.17229	187.507
MAT2L21H	472	37.1989	-3.5268	3.5961	0.5459	0.0000	0.0000	0.0000	0.0000	3.30898	3.17229	187.507
D10083	473	40.0742	-3.6711	3.2176	0.4017	0.0000	0.0000	0.0000	0.0000	3.31062	3.19103	187.906
IPM2L21	474	40.0742	-3.6711	3.2176	0.4017	0.0000	0.0000	0.0000	0.0000	3.31062	3.19103	187.906
D10084	475	40.1988	-3.6772	3.2040	0.3956	0.0000	0.0000	0.0000	0.0000	3.31069	3.19187	187.923
MQSSL	476	40.7153	-3.7025	3.1504	0.3704	0.0000	0.0000	0.0000	0.0000	3.31097	3.19537	187.993
D10010	477	41.4595	-3.7387	3.0800	0.3343	0.0000	0.0000	0.0000	0.0000	3.31135	3.20048	188.093
MQB2L21	478	41.4511	3.7936	3.0706	-0.2713	0.0000	0.0000	0.0000	0.0000	3.31193	3.20828	188.243
D10080	479	33.4933	3.3818	4.1025	-0.6591	0.0000	0.0000	0.0000	0.0000	3.31666	3.25886	189.352
R2L1	480	30.2705	3.1963	4.8582	-0.8337	0.0000	0.0000	0.0000	0.0000	3.31916	3.27673	189.852
D10006	481	28.6955	3.1037	5.2969	-0.9210	0.0000	0.0000	0.0000	0.0000	3.32051	3.28457	190.102
R2L2	482	25.7408	2.9186	6.3170	-1.0952	0.0000	0.0000	0.0000	0.0000	3.32344	3.29835	190.602
D10081	483	22.0460	2.6743	7.9160	-1.3253	0.0000	0.0000	0.0000	0.0000	3.32786	3.31324	191.263
R2L3	484	19.5070	2.4896	9.3461	-1.4992	0.0000	0.0000	0.0000	0.0000	3.33169	3.32249	191.763
D10006	485	18.2853	2.3974	10.1174	-1.5860	0.0000	0.0000	0.0000	0.0000	3.33380	3.32659	192.013
R2L4	486	16.0155	2.2131	11.8129	-1.7596	0.0000	0.0000	0.0000	0.0000	3.33845	3.33387	192.513
D10081	487	13.2522	1.9698	14.2891	-1.9887	0.0000	0.0000	0.0000	0.0000	3.34567	3.34196	193.174
R2L5	488	11.3998	1.7858	16.3960	-2.1619	0.0000	0.0000	0.0000	0.0000	3.35215	3.34716	193.674
D10006	489	10.5298	1.6940	17.4985	-2.2484	0.0000	0.0000	0.0000	0.0000	3.35578	3.34951	193.924
R2L6	490	8.9476	1.5104	19.8718	-2.4212	0.0000	0.0000	0.0000	0.0000	3.36398	3.35378	194.424
D10081	491	7.1121	1.2682	23.2215	-2.6494	0.0000	0.0000	0.0000	0.0000	3.37718	3.35868	195.084
R2L7	492	5.9489	1.0850	26.0077	-2.8219	0.0000	0.0000	0.0000	0.0000	3.38942	3.36192	195.584
D10006	493	5.4293	0.9935	27.4401	-2.9080	0.0000	0.0000	0.0000	0.0000	3.39643	3.36340	195.834
R2L8	494	4.5374	0.8107	30.4935	-3.0801	0.0000	0.0000	0.0000	0.0000	3.41249	3.36616	196.334
D10086	495	3.6320	0.5714	34.6766	-3.3054	0.0000	0.0000	0.0000	0.0000	3.43828	3.36936	196.989
ITV2L22	496	3.6320	0.5714	34.6766	-3.3054	0.0000	0.0000	0.0000	0.0000	3.43828	3.36936	196.989
D10087	497	3.5027	0.5285	35.4586	-3.3459	0.0000	0.0000	0.0000	0.0000	3.44353	3.36990	197.107
MAT2L22V	498	3.5027	0.5285	35.4586	-3.3459	0.0000	0.0000	0.0000	0.0000	3.44353	3.36990	197.107
D10083	499	3.1388	0.3826	38.1865	-3.4833	0.0000	0.0000	0.0000	0.0000	3.46275	3.37162	197.506
IPM2L22	500	3.1388	0.3826	38.1865	-3.4833	0.0000	0.0000	0.0000	0.0000	3.46275	3.37162	197.506
D10079	501	3.0085	0.3143	39.5010	-3.5476	0.0000	0.0000	0.0000	0.0000	3.47244	3.37239	197.693
MQB2L22	502	3.0034	-0.2798	39.4888	3.6281	0.0000	0.0000	0.0000	0.0000	3.48042	3.37299	197.843
D100A80	503	3.9336	-0.6421	32.5320	3.2662	0.0000	0.0000	0.0000	0.0000	3.52784	3.37747	198.852
R2M1	504	5.0389	-0.8926	28.3449	3.0160	0.0000	0.0000	0.0000	0.0000	3.55297	3.38114	199.552
D100A06	505	5.1290	-0.9104	28.0442	2.9982	0.0000	0.0000	0.0000	0.0000	3.55454	3.38142	199.602
R2M2	506	6.6180	-1.1591	24.1999	2.7497	0.0000	0.0000	0.0000	0.0000	3.57370	3.38570	200.302
D100A81	507	7.7610	-1.3222	21.7418	2.5868	0.0000	0.0000	0.0000	0.0000	3.58394	3.38890	200.763
R2M3	508	9.8450	-1.5693	18.4301	2.3400	0.0000	0.0000	0.0000	0.0000	3.59670	3.39446	201.463
D100A06	509	10.0028	-1									

R2N3	530	18.5627	2.4318	9.9762	-1.5095	0.0000	0.0000	0.0000	0.0000	3.66533	3.64630	211.063
D100A06	531	18.3205	2.4132	10.1280	-1.5260	0.0000	0.0000	0.0000	0.0000	3.66576	3.64709	211.113
R2N4	532	15.2317	2.1533	12.4975	-1.7553	0.0000	0.0000	0.0000	0.0000	3.67243	3.65700	211.813
D100A81	533	13.3265	1.9828	14.1838	-1.9057	0.0000	0.0000	0.0000	0.0000	3.67758	3.66251	212.274
R2N5	534	10.8083	1.7246	17.1112	-2.1336	0.0000	0.0000	0.0000	0.0000	3.68687	3.66966	212.974
D100A06	535	10.6367	1.7062	17.3253	-2.1498	0.0000	0.0000	0.0000	0.0000	3.68761	3.67013	213.024
R2N6	536	8.4882	1.4497	20.6138	-2.3762	0.0000	0.0000	0.0000	0.0000	3.69934	3.67602	213.724
D100A81	537	7.2303	1.2814	22.8713	-2.5247	0.0000	0.0000	0.0000	0.0000	3.70871	3.67940	214.184
R2N7	538	5.6555	1.0264	26.7196	-2.7497	0.0000	0.0000	0.0000	0.0000	3.72616	3.68391	214.884
D100A06	539	5.5537	1.0082	26.9954	-2.7657	0.0000	0.0000	0.0000	0.0000	3.72758	3.68420	214.934
R2N8	540	4.3506	0.7549	31.2061	-2.9893	0.0000	0.0000	0.0000	0.0000	3.75033	3.68804	215.634
D100A82	541	3.4983	0.5121	35.3717	-3.2035	0.0000	0.0000	0.0000	0.0000	3.77791	3.69126	216.307
MAT2L24V	542	3.4983	0.5121	35.3717	-3.2035	0.0000	0.0000	0.0000	0.0000	3.77791	3.69126	216.307
D100A83	543	3.1468	0.3680	37.9818	-3.3307	0.0000	0.0000	0.0000	0.0000	3.79711	3.69300	216.706
IPM2L24	544	3.1468	0.3680	37.9818	-3.3307	0.0000	0.0000	0.0000	0.0000	3.79711	3.69300	216.706
D100A79	545	3.0218	0.3006	39.2383	-3.3902	0.0000	0.0000	0.0000	0.0000	3.80677	3.69377	216.893
MQB2L24	546	3.0211	-0.2961	39.1862	-3.7340	0.0000	0.0000	0.0000	0.0000	3.81471	3.69438	217.043
D100A80	547	3.9853	-0.6594	32.0389	3.3492	0.0000	0.0000	0.0000	0.0000	3.86167	3.69891	218.052
R201	548	5.1126	-0.9106	27.7223	3.0831	0.0000	0.0000	0.0000	0.0000	3.88645	3.70265	218.752
D100A06	549	5.2045	-0.9285	27.4149	3.0642	0.0000	0.0000	0.0000	0.0000	3.88800	3.70294	218.802
R202	550	6.7161	-1.1782	23.4676	2.7997	0.0000	0.0000	0.0000	0.0000	3.90688	3.70733	219.502
D100A81	551	7.8769	-1.3420	20.9683	2.6262	0.0000	0.0000	0.0000	0.0000	3.91697	3.71063	219.963
R203	552	9.9843	-1.5901	17.5941	2.3634	0.0000	0.0000	0.0000	0.0000	3.92955	3.71644	220.663
D100A06	553	10.1442	-1.6078	17.3587	2.3447	0.0000	0.0000	0.0000	0.0000	3.93034	3.71689	220.713
R204	554	12.6374	-1.8544	14.3558	2.0835	0.0000	0.0000	0.0000	0.0000	3.94018	3.72395	221.413
D100A81	555	14.4203	-2.0162	12.5154	1.9121	0.0000	0.0000	0.0000	0.0000	3.94561	3.72942	221.874
R205	556	17.5115	-2.2614	10.0888	1.6525	0.0000	0.0000	0.0000	0.0000	3.95263	3.73934	222.574
D100A06	557	17.7385	-2.2788	9.9245	1.6340	0.0000	0.0000	0.0000	0.0000	3.95308	3.74014	222.624
R206	558	21.2170	-2.5225	7.8713	1.3759	0.0000	0.0000	0.0000	0.0000	3.95882	3.75275	223.324
D100A81	559	23.6145	-2.6823	6.6817	1.2066	0.0000	0.0000	0.0000	0.0000	3.96210	3.76287	223.784
R207	560	27.6931	-2.9245	5.2077	0.9501	0.0000	0.0000	0.0000	0.0000	3.96645	3.78180	224.484
D100A06	561	27.9865	-2.9418	5.1136	0.9318	0.0000	0.0000	0.0000	0.0000	3.96674	3.78334	224.534
R208	562	32.4536	-3.1825	4.0148	0.6768	0.0000	0.0000	0.0000	0.0000	3.97044	3.80803	225.234
D100A82	563	36.8903	-3.4132	3.2686	0.4325	0.0000	0.0000	0.0000	0.0000	3.97353	3.83776	225.907
MAT2L25H	564	36.8903	-3.4132	3.2686	0.4325	0.0000	0.0000	0.0000	0.0000	3.97353	3.83776	225.907
D100A83	565	39.6718	-3.5502	2.9810	0.2875	0.0000	0.0000	0.0000	0.0000	3.97519	3.85818	226.306
IPM2L25	566	39.6718	-3.5502	2.9810	0.2875	0.0000	0.0000	0.0000	0.0000	3.97519	3.85818	226.306
D100A79	567	41.0112	-3.6143	2.8862	0.2196	0.0000	0.0000	0.0000	0.0000	3.97593	3.86833	226.493
MQB2L25	568	40.9779	3.8341	2.9066	-0.3569	0.0000	0.0000	0.0000	0.0000	3.97651	3.87661	226.643
D100A80	569	33.6303	3.4475	4.0217	-0.7482	0.0000	0.0000	0.0000	0.0000	3.98084	3.92430	227.652
R2P1	570	29.1772	3.1801	5.2863	-1.0189	0.0000	0.0000	0.0000	0.0000	3.98439	3.94855	228.352
D100A06	571	28.8601	3.1611	5.3891	-1.0382	0.0000	0.0000	0.0000	0.0000	3.98467	3.95004	228.402
R2P2	572	24.7788	2.8952	7.0677	-1.3073	0.0000	0.0000	0.0000	0.0000	3.98884	3.96813	229.102
D100A81	573	22.1919	2.7208	8.3534	-1.4839	0.0000	0.0000	0.0000	0.0000	3.99196	3.97768	229.563
R2P3	574	18.6876	2.4565	10.6738	-1.7514	0.0000	0.0000	0.0000	0.0000	3.99743	3.98949	230.263
D100A06	575	18.4428	2.4377	10.8499	-1.7705	0.0000	0.0000	0.0000	0.0000	3.99786	3.99023	230.313
R2P4	576	15.3123	2.1750	13.5859	-2.0364	0.0000	0.0000	0.0000	0.0000	4.00449	3.99941	231.013
D100A81	577	13.3880	2.0026	15.5423	-2.2109	0.0000	0.0000	0.0000	0.0000	4.00962	4.00446	231.474
R2P5	578	10.8373	1.7414	18.9225	-2.4754	0.0000	0.0000	0.0000	0.0000	4.01887	4.01096	232.174
D100A06	579	10.6641	1.7228	19.1710	-2.4942	0.0000	0.0000	0.0000	0.0000	4.01961	4.01137	232.224
R2P6	580	8.4892	1.4631	22.9682	-2.7571	0.0000	0.0000	0.0000	0.0000	4.03133	4.01668	232.924
D100A81	581	7.2198	1.2927	25.5876	-2.9296	0.0000	0.0000	0.0000	0.0000	4.04070	4.01971	233.384
R2P7	582	5.6277	1.0344	30.0312	-3.1910	0.0000	0.0000	0.0000	0.0000	4.05821	4.02373	234.084
D100A06	583	5.5251	1.0160	30.3513	-3.2096	0.0000	0.0000	0.0000	0.0000	4.05964	4.02399	234.134
R2P8	584	4.3104	0.7593	35.2132	-3.4695	0.0000	0.0000	0.0000	0.0000	4.08255	4.02740	234.834
D100A86	585	3.5802	0.5563	39.1791	-3.6751	0.0000	0.0000	0.0000	0.0000	4.10511	4.02978	235.389
ITV2L26	586	3.5802	0.5563	39.1791	-3.6751	0.0000	0.0000	0.0000	0.0000	4.10511	4.02978	235.389
D100A87	587	3.4544	0.5133	40.0484	-3.7186	0.0000	0.0000	0.0000	0.0000	4.11043	4.03025	235.507
MAT2L26V	588	3.4544	0.5133	40.0484	-3.7186	0.0000	0.0000	0.0000	0.0000	4.11043	4.03025	235.507
D100A83	589	3.1027	0.3672	43.0783	-3.8665	0.0000	0.0000	0.0000	0.0000	4.12990	4.03178	235.906
IPM2L26	590	3.1027	0.3672	43.0783	-3.8665	0.0000	0.0000	0.0000	0.0000	4.12990	4.03178	235.906
D100A79	591	2.9782	0.2988	44.5369	-3.9357	0.0000	0.0000	0.0000	0.0000	4.13970	4.03246	236.093
MQB2L26	592	2.9770	-0.2907	44.5039	4.1539	0.0000	0.0000	0.0000	0.0000	4.14775	4.03299	236.243
D100A88	593	4.5186	-0.8038	33.6160	3.5761	0.0000	0.0000	0.0000	0.0000	4.21049	4.03879	237.652
R2Q1	594	5.8512	-1.0581	28.9870	3.2898	0.0000	0.0000	0.0000	0.0000	4.23222	4.04236	238.352
D100A06	595	5.9579	-1.0762	28.6591	3.2694	0.0000	0.0000	0.0000	0.0000	4.23357	4.04264	238.402
R2Q2	596	7.6799	-1.3290	24.4306	2.9847	0.0000	0.0000	0.0000	0.0000	4.25007	4.04685	239.102
D100A81	597	8.9807	-1.4949	21.7669	2.7979	0.0000	0.0000	0.0000	0.0000	4.25890	4.05003	239.562
R2Q3	598	11.3064	-1.7464	18.1598	2.5148	0.0000	0.0000	0.0000	0.0000	4.26996	4.05563	240.262
D100A06	599	11.4819	-1.7643	17.9093	2.4946	0.0000	0.0000	0.0000	0.0000	4.27066	4.05607	240.312
R2Q4	600	14.1984	-2.0143	14.7047	2.2131	0.0000	0.0000	0.0000	0.0000	4.27939	4.06294	241.012
D100A81	601	16.1297	-2.1784	12.7510	2.0283	0.0000	0.0000	0.0000	0.0000	4.28424	4.06829	241.473
R2Q5	602	19.4519	-2.4271	10.1707	1.7484	0.0000	0.0000	0.0000	0.0000	4.29053	4.07808	242.173
D100A06	603	19.6955	-2.4448	9.9969	1.7284	0.0000	0.0000	0.0000	0.0000	4.29094	4.07887	242.223
R2Q6	604	23.4099	-2.6921	7.8211	1.4500	0.0000	0.0000	0.0000	0.0000	4.29613	4.09148	242.923
D100A81	605	25.9647	-2.8543	6.5694	1.2673	0.0000	0.0000	0.0000	0.0000	4.29910	4.10172	243.384
R2Q7	606	30.2869	-3.1003	5.0208	0.9903	0.0000	0.0000	0.0000	0.0000	4.30307	4.12117	244.084
D100A06	607	30.5978	-3.1178	4.9228	0.9706	0.0000	0.0000	0.0000	0.0000	4.30333	4.12277	244.134
R2Q8	608	35.3133	-3.3624	3.7804	0.6952	0.0000	0.0000	0.0000	0.0000	4.30672	4.14871	244.834
D100A82	609	39.9944	-3.5968	3.0227	0.4313	0.0000	0.0000	0.0000	0.0000	4.30957	4.18059	245.506
IPM2L27	610	39.9944	-3.5968	3.0227	0.4313	0.0000	0.0000	0.0000	0.0000	4.30957	4.18059	245.506
D100A79	611	41.3514	-3.6619	2.8751	0.3579	0.0000	0.0000	0.0000	0.0000	4.31030	4.19069	245.693
MQB2L27	612	41.2982	4.0135	2.8554	-0.2249	0.0000	0.0000	0.0000	0.0000	4.31088	4.19906	245

* TRANSFORMATION MATRIX *

FIRST ORDER MATRIX

```
- -0.9515078E+00 0.1275300E+02 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00
- 0.9627551E-01 -0.1843812E+01 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00
- 0.0000000E+00 0.0000000E+00 0.3314708E-01 0.5981393E+01 0.0000000E+00 0.0000000E+00
- 0.0000000E+00 0.0000000E+00 -0.8365971E-01 0.7903502E+00 0.0000000E+00 0.0000000E+00
- 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.1000000E+01 0.0000000E+00
- 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.5265994E+00
```

HORIZONTAL MOVEMENT ANALYSIS

COMPACTION FACTOR = 0.0000000E+00 GAMMA TR = 0.0000000E+00

MOVEMENT IS UNSTABLE

HALF-TRACE = -0.13976598619774E+01
EIGENVALUE1 = -0.42121063657822E+00
WITH EIGENVECTOR :
X = -0.99913658257344E+00 XP = -0.41546231639724E-01
EIGENVALUE2 = -0.23741090873765E+01
WITH EIGENVECTOR :
X = -0.99383573659234E+00 XP = 0.11086265679642E+00

VERTICAL MOVEMENT ANALYSIS

COS(MU) = 0.41174863245208E+00 NU = 0.18245908726014E+00
ETA = 0.00000000000000E+00 ETAP = 0.00000000000000E+00
ALPHA = -0.41545332138973E+00 BETA = 0.65636010862095E+01

1
OPERATION LIST ,

HARDWARE

1.21249 6.52793 -80.6 100 156.754 180 0.0 0 1 0 ;

VALUES ARE FOR ENERGY : 0.121E+01 GEV

THE LENGTHS ARE MEASURED IN METERS ,THE ANGLES IN DEGREES

THE SKYZ COORDINATES,AZIMUTH,ELEVATION AND ROLL ANGLES ARE :

#	NAME	S	X	Y	Z	THETA	PHI	PSI
1	D10025	6.8279300000	-80.6000000000	100.0000000000	156.4540000000	-180.0000000000	0.0000000000	0.0000000000
2	MQB2L01	6.9779300000	-80.6000000000	100.0000000000	156.3040000000	-180.0000000000	0.0000000000	0.0000000000
3	D10074	7.1506250000	-80.6000000000	100.0000000000	156.1313050000	-180.0000000000	0.0000000000	0.0000000000
4	IPM2L01	7.1506250000	-80.6000000000	100.0000000000	156.1313050000	-180.0000000000	0.0000000000	0.0000000000
5	D10075	7.7632430000	-80.6000000000	100.0000000000	155.5186870000	-180.0000000000	0.0000000000	0.0000000000
6	ITV2L01	7.7632430000	-80.6000000000	100.0000000000	155.5186870000	-180.0000000000	0.0000000000	0.0000000000
7	D10076	11.5171930000	-80.6000000000	100.0000000000	151.7647370000	-180.0000000000	0.0000000000	0.0000000000
8	ITV2L02	11.5171930000	-80.6000000000	100.0000000000	151.7647370000	-180.0000000000	0.0000000000	0.0000000000
9	D10077	11.8544590000	-80.6000000000	100.0000000000	151.4274710000	-180.0000000000	0.0000000000	0.0000000000
10	MAT2L02V	11.8544590000	-80.6000000000	100.0000000000	151.4274709000	-180.0000000000	0.0000000000	0.0000000000
11	D10078	12.0342250100	-80.6000000000	100.0000000000	151.2477049900	-180.0000000000	0.0000000000	0.0000000000
12	IPM2L02	12.0342250100	-80.6000000000	100.0000000000	151.2477049900	-180.0000000000	0.0000000000	0.0000000000
13	D10079	12.2211780100	-80.6000000000	100.0000000000	151.0607519900	-180.0000000000	0.0000000000	0.0000000000
14	MQB2L02	12.3711780100	-80.6000000000	100.0000000000	150.9107519900	-180.0000000000	0.0000000000	0.0000000000
15	D10080	13.4802380100	-80.6000000000	100.0000000000	149.8016919900	-180.0000000000	0.0000000000	0.0000000000
16	R221	13.9802380100	-80.6000000000	100.0000000000	149.3016919900	-180.0000000000	0.0000000000	0.0000000000
17	D10006	14.2302380100	-80.6000000000	100.0000000000	149.0516919900	-180.0000000000	0.0000000000	0.0000000000
18	R222	14.7302380100	-80.6000000000	100.0000000000	148.5516919900	-180.0000000000	0.0000000000	0.0000000000
19	D10081	15.3908630100	-80.6000000000	100.0000000000	147.8910669900	-180.0000000000	0.0000000000	0.0000000000
20	R223	15.8908630100	-80.6000000000	100.0000000000	147.3910669900	-180.0000000000	0.0000000000	0.0000000000
21	D10006	16.1408630100	-80.6000000000	100.0000000000	147.1410669900	-180.0000000000	0.0000000000	0.0000000000
22	R224	16.6408630100	-80.6000000000	100.0000000000	146.6410669900	-180.0000000000	0.0000000000	0.0000000000
23	D10081	17.3014880100	-80.6000000000	100.0000000000	145.9804419900	-180.0000000000	0.0000000000	0.0000000000
24	R225	17.8014880100	-80.6000000000	100.0000000000	145.4804419900	-180.0000000000	0.0000000000	0.0000000000
25	D10006	18.0514880100	-80.6000000000	100.0000000000	145.2304419900	-180.0000000000	0.0000000000	0.0000000000
26	R226	18.5514880100	-80.6000000000	100.0000000000	144.7304419900	-180.0000000000	0.0000000000	0.0000000000
27	D10081	19.2121130100	-80.6000000000	100.0000000000	144.0698169900	-180.0000000000	0.0000000000	0.0000000000
28	R227	19.7121130100	-80.6000000000	100.0000000000	143.5698169900	-180.0000000000	0.0000000000	0.0000000000
29	D10006	19.9621130100	-80.6000000000	100.0000000000	143.3198169900	-180.0000000000	0.0000000000	0.0000000000
30	R228	20.4621130100	-80.6000000000	100.0000000000	142.8198169900	-180.0000000000	0.0000000000	0.0000000000
31	D10082	21.2347690100	-80.6000000000	100.0000000000	142.0471609900	-180.0000000000	0.0000000000	0.0000000000
32	MAT2L03H	21.2347690200	-80.6000000000	100.0000000000	142.0471609800	-180.0000000000	0.0000000000	0.0000000000
33	D10083	21.6342230200	-80.6000000000	100.0000000000	141.6477069800	-180.0000000000	0.0000000000	0.0000000000
34	IPM2L03	21.6342230200	-80.6000000000	100.0000000000	141.6477069800	-180.0000000000	0.0000000000	0.0000000000
35	D10084	21.6511760200	-80.6000000000	100.0000000000	141.6307539800	-180.0000000000	0.0000000000	0.0000000000
36	MQSSL	21.7211760200	-80.6000000000	100.0000000000	141.5607539800	-180.0000000000	0.0000000000	0.0000000000
37	D10010	21.8211760200	-80.6000000000	100.0000000000	141.4607539800	-180.0000000000	0.0000000000	0.0000000000
38	MQB2L03	21.9711760200	-80.6000000000	100.0000000000	141.3107539800	-180.0000000000	0.0000000000	0.0000000000
39	D10080	23.0802360200	-80.6000000000	100.0000000000	140.2016939800	-180.0000000000	0.0000000000	0.0000000000
40	R231	23.5802360200	-80.6000000000	100.0000000000	139.7016939800	-180.0000000000	0.0000000000	0.0000000000
41	D10006	23.8302360200	-80.6000000000	100.0000000000	139.4516939800	-180.0000000000	0.0000000000	0.0000000000
42	R232	24.3302360200	-80.6000000000	100.0000000000	138.9516939800	-180.0000000000	0.0000000000	0.0000000000
43	D10081	24.9908610200	-80.6000000000	100.0000000000	138.2910689800	-180.0000000000	0.0000000000	0.0000000000
44	R233	25.4908610200	-80.6000000000	100.0000000000	137.7910689800	-180.0000000000	0.0000000000	0.0000000000
45	D10006	25.7408610200	-80.6000000000	100.0000000000	137.5410689800	-180.0000000000	0.0000000000	0.0000000000
46	R234	26.2408610200	-80.6000000000	100.0000000000	137.0410689800	-180.0000000000	0.0000000000	0.0000000000
47	D10081	26.9014860200	-80.6000000000	100.0000000000	136.3804439800	-180.0000000000	0.0000000000	0.0000000000
48	R235	27.4014860200	-80.6000000000	100.0000000000	135.8804439800	-180.0000000000	0.0000000000	0.0000000000
49	D10006	27.6514860200	-80.6000000000	100.0000000000	135.6304439800	-180.0000000000	0.0000000000	0.0000000000

50	R236	28.1514860200	-80.6000000000	100.0000000000	135.1304439800	-180.0000000000	0.0000000000	0.0000000000
51	D10081	28.8121110200	-80.6000000000	100.0000000000	134.4698189800	-180.0000000000	0.0000000000	0.0000000000
52	R237	29.3121110200	-80.6000000000	100.0000000000	133.9698189800	-180.0000000000	0.0000000000	0.0000000000
53	D10006	29.5621110200	-80.6000000000	100.0000000000	133.7198189800	-180.0000000000	0.0000000000	0.0000000000
54	R238	30.0621110200	-80.6000000000	100.0000000000	133.2198189800	-180.0000000000	0.0000000000	0.0000000000
55	D10085	31.0544550200	-80.6000000000	100.0000000000	132.2274749800	-180.0000000000	0.0000000000	0.0000000000
56	MAT2L04V	31.0544550300	-80.6000000000	100.0000000000	132.2274749700	-180.0000000000	0.0000000000	0.0000000000
57	D10078	31.2342210300	-80.6000000000	100.0000000000	132.4410709700	-180.0000000000	0.0000000000	0.0000000000
58	IPM2L04	31.2342210300	-80.6000000000	100.0000000000	132.0477089700	-180.0000000000	0.0000000000	0.0000000000
59	D10084	31.2511740300	-80.6000000000	100.0000000000	132.0370559700	-180.0000000000	0.0000000000	0.0000000000
60	MQSSL	31.3211740300	-80.6000000000	100.0000000000	131.9670559700	-180.0000000000	0.0000000000	0.0000000000
61	D10010	31.4211740300	-80.6000000000	100.0000000000	131.8670559700	-180.0000000000	0.0000000000	0.0000000000
62	MQB2L04	31.5711740300	-80.6000000000	100.0000000000	131.7170559700	-180.0000000000	0.0000000000	0.0000000000
63	D10080	32.6802340300	-80.6000000000	100.0000000000	130.6016959700	-180.0000000000	0.0000000000	0.0000000000
64	R241	33.1802340300	-80.6000000000	100.0000000000	130.1016959700	-180.0000000000	0.0000000000	0.0000000000
65	D10006	33.4302340300	-80.6000000000	100.0000000000	129.8516959700	-180.0000000000	0.0000000000	0.0000000000
66	R242	33.9302340300	-80.6000000000	100.0000000000	129.3516959700	-180.0000000000	0.0000000000	0.0000000000
67	D10081	34.5908590300	-80.6000000000	100.0000000000	128.6910709700	-180.0000000000	0.0000000000	0.0000000000
68	R243	35.0908590300	-80.6000000000	100.0000000000	128.1910709700	-180.0000000000	0.0000000000	0.0000000000
69	D10006	35.3408590300	-80.6000000000	100.0000000000	127.9410709700	-180.0000000000	0.0000000000	0.0000000000
70	R244	35.8408590300	-80.6000000000	100.0000000000	127.4410709700	-180.0000000000	0.0000000000	0.0000000000
71	D10081	36.5014840300	-80.6000000000	100.0000000000	126.7804459700	-180.0000000000	0.0000000000	0.0000000000
72	R245	37.0014840300	-80.6000000000	100.0000000000	126.2804459700	-180.0000000000	0.0000000000	0.0000000000
73	D10006	37.2514840300	-80.6000000000	100.0000000000	126.0304459700	-180.0000000000	0.0000000000	0.0000000000
74	R246	37.7514840300	-80.6000000000	100.0000000000	125.5304459700	-180.0000000000	0.0000000000	0.0000000000
75	D10081	38.4121090300	-80.6000000000	100.0000000000	124.8698209700	-180.0000000000	0.0000000000	0.0000000000
76	R247	38.9121090300	-80.6000000000	100.0000000000	124.3698209700	-180.0000000000	0.0000000000	0.0000000000
77	D10006	39.1621090300	-80.6000000000	100.0000000000	124.1198209700	-180.0000000000	0.0000000000	0.0000000000
78	R248	39.6621090300	-80.6000000000	100.0000000000	123.6198209700	-180.0000000000	0.0000000000	0.0000000000
79	D10082	40.4347650300	-80.6000000000	100.0000000000	122.8471649700	-180.0000000000	0.0000000000	0.0000000000
80	MAT2L05H	40.4347650400	-80.6000000000	100.0000000000	122.8471649600	-180.0000000000	0.0000000000	0.0000000000
81	D10083	40.8342190400	-80.6000000000	100.0000000000	122.4477109600	-180.0000000000	0.0000000000	0.0000000000
82	IPM2L05	40.8342190400	-80.6000000000	100.0000000000	122.4477109600	-180.0000000000	0.0000000000	0.0000000000
83	D10084	40.8511720400	-80.6000000000	100.0000000000	122.4307579600	-180.0000000000	0.0000000000	0.0000000000
84	MQSSL	40.9211720400	-80.6000000000	100.0000000000	122.3607579600	-180.0000000000	0.0000000000	0.0000000000
85	D10010	41.0211720400	-80.6000000000	100.0000000000	122.2607579600	-180.0000000000	0.0000000000	0.0000000000
86	MQB2L05	41.1711720400	-80.6000000000	100.0000000000	122.1107579600	-180.0000000000	0.0000000000	0.0000000000
87	D10080	42.2802320400	-80.6000000000	100.0000000000	121.0016979600	-180.0000000000	0.0000000000	0.0000000000
88	R251	42.7802320400	-80.6000000000	100.0000000000	120.5016979600	-180.0000000000	0.0000000000	0.0000000000
89	D10006	43.0302320400	-80.6000000000	100.0000000000	120.2516979600	-180.0000000000	0.0000000000	0.0000000000
90	R252	43.5302320400	-80.6000000000	100.0000000000	119.7516979600	-180.0000000000	0.0000000000	0.0000000000
91	D10081	44.1908570400	-80.6000000000	100.0000000000	119.0910729600	-180.0000000000	0.0000000000	0.0000000000
92	R253	44.6908570400	-80.6000000000	100.0000000000	118.5910729600	-180.0000000000	0.0000000000	0.0000000000
93	D10006	44.9408570400	-80.6000000000	100.0000000000	118.3410729600	-180.0000000000	0.0000000000	0.0000000000
94	R254	45.4408570400	-80.6000000000	100.0000000000	117.8410729600	-180.0000000000	0.0000000000	0.0000000000
95	D10081	46.1014820400	-80.6000000000	100.0000000000	117.1804479600	-180.0000000000	0.0000000000	0.0000000000
96	R255	46.6014820400	-80.6000000000	100.0000000000	116.6804479600	-180.0000000000	0.0000000000	0.0000000000
97	D10006	46.8514820400	-80.6000000000	100.0000000000	116.4304479600	-180.0000000000	0.0000000000	0.0000000000
98	R256	47.3514820400	-80.6000000000	100.0000000000	115.9304479600	-180.0000000000	0.0000000000	0.0000000000
99	D10081	48.0121070400	-80.6000000000	100.0000000000	115.2698229600	-180.0000000000	0.0000000000	0.0000000000
100	R257	48.5121070400	-80.6000000000	100.0000000000	114.7698229600	-180.0000000000	0.0000000000	0.0000000000
101	D10006	48.7621070400	-80.6000000000	100.0000000000	114.5198229600	-180.0000000000	0.0000000000	0.0000000000
102	R258	49.2621070400	-80.6000000000	100.0000000000	114.0198229600	-180.0000000000	0.0000000000	0.0000000000
103	D10086	49.9171850400	-80.6000000000	100.0000000000	113.3647449600	-180.0000000000	0.0000000000	0.0000000000
104	ITV2L06	49.9171850400	-80.6000000000	100.0000000000	113.3647449600	-180.0000000000	0.0000000000	0.0000000000
105	D10077	50.2544510400	-80.6000000000	100.0000000000	113.0274789600	-180.0000000000	0.0000000000	0.0000000000
106	MAT2L06V	50.2544510500	-80.6000000000	100.0000000000	113.0274789500	-180.0000000000	0.0000000000	0.0000000000
107	D10078	50.4342170500	-80.6000000000	100.0000000000	112.8477129500	-180.0000000000	0.0000000000	0.0000000000
108	IPM2L06	50.4342170500	-80.6000000000	100.0000000000	112.8477129500	-180.0000000000	0.0000000000	0.0000000000
109	D10084	50.4511700500	-80.6000000000	100.0000000000	112.8307559500	-180.0000000000	0.0000000000	0.0000000000
110	MQSSL	50.5211700500	-80.6000000000	100.0000000000	112.7607559500	-180.0000000000	0.0000000000	0.0000000000
111	D10010	50.6211700500	-80.6000000000	100.0000000000	112.6607559500	-180.0000000000	0.0000000000	0.0000000000
112	MQB2L06	50.7711700500	-80.6000000000	100.0000000000	112.5107559500	-180.0000000000	0.0000000000	0.0000000000
113	D10080	51.8802300500	-80.6000000000	100.0000000000	111.4016999500	-180.0000000000	0.0000000000	0.0000000000
114	R261	52.3802300500	-80.6000000000	100.0000000000	110.9016999500	-180.0000000000	0.0000000000	0.0000000000
115	D10006	52.6302300500	-80.6000000000	100.0000000000	110.6516999500	-180.0000000000	0.0000000000	0.0000000000
116	R262	53.1302300500	-80.6000000000	100.0000000000	110.1516999500	-180.0000000000	0.0000000000	0.0000000000
117	D10081	53.7908550500	-80.6000000000	100.0000000000	109.4910749500	-180.0000000000	0.0000000000	0.0000000000
118	R263	54.2908550500	-80.6000000000	100.0000000000	108.9910749500	-180.0000000000	0.0000000000	0.0000000000
119	D10006	54.5408550500	-80.6000000000	100.0000000000	108.7410749500	-180.0000000000	0.0000000000	0.0000000000
120	R264	55.0408550500	-80.6000000000	100.0000000000	108.2410749500	-180.0000000000	0.0000000000	0.0000000000
121	D10081	55.7014800500	-80.6000000000	100.0000000000	107.5804499500	-180.0000000000	0.0000000000	0.0000000000
122	R265	56.2014800500	-80.6000000000	100.0000000000	107.0804499500	-180.0000000000	0.0000000000	0.0000000000
123	D10006	56.4514800500	-80.6000000000	100.0000000000	106.8304499500	-180.0000000000	0.0000000000	0.0000000000
124	R266	56.9514800500	-80.6000000000	100.0000000000	106.3304499500	-180.0000000000	0.0000000000	0.0000000000
125	D10081	57.6121050500	-80.6000000000	100.0000000000	105.6698249500	-180.0000000000	0.0000000000	0.0000000000
126	R267	58.1121050500	-80.6000000000	100.0000000000	105.1698249500	-180.0000000000	0.0000000000	0.0000000000
127	D10006	58.3621050500	-80.6000000000	100.0000000000	104.9198249500	-180.0000000000	0.0000000000	0.0000000000
128	R268	58.8621050500	-80.6000000000	100.0000000000	104.4198249500	-180.0000000000	0.0000000000	0.0000000000
129	D10082	59.6347610500	-80.6000000000	100.0000000000	103.6471689500	-180.0000000000	0.0000000000	0.0000000000
130	MAT2L07H	59.6347610600	-80.6000000000	100.0000000000	103.6471689400	-180.0000000000	0.0000000000	0.0000000000
131	D10083	60.0342150600	-80.6000000000	100.0000000000	103.2477149400	-180.0000000000	0.0000000000	0.0000000000
132	IPM2L07	60.0342150600	-80.6000000000	100.0000000000	103.2477149			

362	R2G3	150.2908351500	-80.6000000000	100.0000000000	12.9910948500	-180.0000000000	0.0000000000	0.0000000000
363	D10006	150.5408351500	-80.6000000000	100.0000000000	12.7410948500	-180.0000000000	0.0000000000	0.0000000000
364	R2G4	151.0408351500	-80.6000000000	100.0000000000	12.2410948500	-180.0000000000	0.0000000000	0.0000000000
365	D10081	151.7014601500	-80.6000000000	100.0000000000	11.5804698500	-180.0000000000	0.0000000000	0.0000000000
366	R2G5	152.2014601500	-80.6000000000	100.0000000000	11.0804698500	-180.0000000000	0.0000000000	0.0000000000
367	D10006	152.4514601500	-80.6000000000	100.0000000000	10.8304698500	-180.0000000000	0.0000000000	0.0000000000
368	R2G6	152.9514601500	-80.6000000000	100.0000000000	10.3304698500	-180.0000000000	0.0000000000	0.0000000000
369	D10081	153.6120851500	-80.6000000000	100.0000000000	9.6698448500	-180.0000000000	0.0000000000	0.0000000000
370	R2G7	154.1120851500	-80.6000000000	100.0000000000	9.1698448500	-180.0000000000	0.0000000000	0.0000000000
371	D10006	154.3620851500	-80.6000000000	100.0000000000	8.9198448500	-180.0000000000	0.0000000000	0.0000000000
372	R2G8	154.8620851500	-80.6000000000	100.0000000000	8.4198448500	-180.0000000000	0.0000000000	0.0000000000
373	D10082	155.6347411500	-80.6000000000	100.0000000000	7.6471888400	-180.0000000000	0.0000000000	0.0000000000
374	MAT2L17H	155.6347411600	-80.6000000000	100.0000000000	7.6471888400	-180.0000000000	0.0000000000	0.0000000000
375	D10083	156.0341951600	-80.6000000000	100.0000000000	7.2477348400	-180.0000000000	0.0000000000	0.0000000000
376	IPM2L17	156.0341951600	-80.6000000000	100.0000000000	7.2477348400	-180.0000000000	0.0000000000	0.0000000000
377	D10084	156.0511481600	-80.6000000000	100.0000000000	7.2307818400	-180.0000000000	0.0000000000	0.0000000000
378	MQSSL	156.1211481600	-80.6000000000	100.0000000000	7.1607818400	-180.0000000000	0.0000000000	0.0000000000
379	D10010	156.2211481600	-80.6000000000	100.0000000000	7.0607818400	-180.0000000000	0.0000000000	0.0000000000
380	MQB2L17	156.3711481600	-80.6000000000	100.0000000000	6.9107818400	-180.0000000000	0.0000000000	0.0000000000
381	D10080	157.4802081600	-80.6000000000	100.0000000000	5.8017218400	-180.0000000000	0.0000000000	0.0000000000
382	R2H1	157.9802081600	-80.6000000000	100.0000000000	5.3017218400	-180.0000000000	0.0000000000	0.0000000000
383	D10006	158.2302081600	-80.6000000000	100.0000000000	5.0517218400	-180.0000000000	0.0000000000	0.0000000000
384	R2H2	158.7302081600	-80.6000000000	100.0000000000	4.5517218400	-180.0000000000	0.0000000000	0.0000000000
385	D10081	159.3908331600	-80.6000000000	100.0000000000	3.8910968400	-180.0000000000	0.0000000000	0.0000000000
386	R2H3	159.8908331600	-80.6000000000	100.0000000000	3.3910968400	-180.0000000000	0.0000000000	0.0000000000
387	D10006	160.1408331600	-80.6000000000	100.0000000000	3.1410968400	-180.0000000000	0.0000000000	0.0000000000
388	R2H4	160.6408331600	-80.6000000000	100.0000000000	2.6410968400	-180.0000000000	0.0000000000	0.0000000000
389	D10081	161.3014581600	-80.6000000000	100.0000000000	1.9804718400	-180.0000000000	0.0000000000	0.0000000000
390	R2H5	161.8014581600	-80.6000000000	100.0000000000	1.4804718400	-180.0000000000	0.0000000000	0.0000000000
391	D10006	162.0514581600	-80.6000000000	100.0000000000	1.2304718400	-180.0000000000	0.0000000000	0.0000000000
392	R2H6	162.5514581600	-80.6000000000	100.0000000000	0.7304718400	-180.0000000000	0.0000000000	0.0000000000
393	D10081	163.2120831600	-80.6000000000	100.0000000000	0.0698468400	-180.0000000000	0.0000000000	0.0000000000
394	R2H7	163.7120831600	-80.6000000000	100.0000000000	-0.4301531600	-180.0000000000	0.0000000000	0.0000000000
395	D10006	163.9620831600	-80.6000000000	100.0000000000	-0.6801531600	-180.0000000000	0.0000000000	0.0000000000
396	R2H8	164.4620831600	-80.6000000000	100.0000000000	-1.1801531600	-180.0000000000	0.0000000000	0.0000000000
397	D10086	165.1171611600	-80.6000000000	100.0000000000	-1.8352311600	-180.0000000000	0.0000000000	0.0000000000
398	ITV2L18	165.1171611600	-80.6000000000	100.0000000000	-1.8352311600	-180.0000000000	0.0000000000	0.0000000000
399	D10077	165.4544271700	-80.6000000000	100.0000000000	-2.1724971600	-180.0000000000	0.0000000000	0.0000000000
400	MAT2L18V	165.4544271700	-80.6000000000	100.0000000000	-2.1724971600	-180.0000000000	0.0000000000	0.0000000000
401	D10078	165.6341931700	-80.6000000000	100.0000000000	-2.3522631700	-180.0000000000	0.0000000000	0.0000000000
402	IPM2L18	165.6341931700	-80.6000000000	100.0000000000	-2.3522631700	-180.0000000000	0.0000000000	0.0000000000
403	D10084	165.6511461700	-80.6000000000	100.0000000000	-2.3692161700	-180.0000000000	0.0000000000	0.0000000000
404	MQSSL	165.7211461700	-80.6000000000	100.0000000000	-2.4392161700	-180.0000000000	0.0000000000	0.0000000000
405	D10010	165.8211461700	-80.6000000000	100.0000000000	-2.5392161700	-180.0000000000	0.0000000000	0.0000000000
406	MQB2L18	165.9711461700	-80.6000000000	100.0000000000	-2.6892161700	-180.0000000000	0.0000000000	0.0000000000
407	D10080	167.0802061700	-80.6000000000	100.0000000000	-3.7982761700	-180.0000000000	0.0000000000	0.0000000000
408	R2I1	167.5802061700	-80.6000000000	100.0000000000	-4.2982761700	-180.0000000000	0.0000000000	0.0000000000
409	D10006	167.8302061700	-80.6000000000	100.0000000000	-4.5482761700	-180.0000000000	0.0000000000	0.0000000000
410	R2I2	168.3302061700	-80.6000000000	100.0000000000	-5.0482761700	-180.0000000000	0.0000000000	0.0000000000
411	D10081	168.9908311700	-80.6000000000	100.0000000000	-5.7089011700	-180.0000000000	0.0000000000	0.0000000000
412	R2I3	169.4908311700	-80.6000000000	100.0000000000	-6.2089011700	-180.0000000000	0.0000000000	0.0000000000
413	D10006	169.7408311700	-80.6000000000	100.0000000000	-6.4589011700	-180.0000000000	0.0000000000	0.0000000000
414	R2I4	170.2408311700	-80.6000000000	100.0000000000	-6.9589011700	-180.0000000000	0.0000000000	0.0000000000
415	D10081	170.9014561700	-80.6000000000	100.0000000000	-7.6195261700	-180.0000000000	0.0000000000	0.0000000000
416	R2I5	171.4014561700	-80.6000000000	100.0000000000	-8.1195261700	-180.0000000000	0.0000000000	0.0000000000
417	D10006	171.6514561700	-80.6000000000	100.0000000000	-8.3695261700	-180.0000000000	0.0000000000	0.0000000000
418	R2I6	172.1514561700	-80.6000000000	100.0000000000	-8.8695261700	-180.0000000000	0.0000000000	0.0000000000
419	D10081	172.8120811700	-80.6000000000	100.0000000000	-9.5301511700	-180.0000000000	0.0000000000	0.0000000000
420	R2I7	173.3120811700	-80.6000000000	100.0000000000	-10.0301511700	-180.0000000000	0.0000000000	0.0000000000
421	D10006	173.5620811700	-80.6000000000	100.0000000000	-10.2801511700	-180.0000000000	0.0000000000	0.0000000000
422	R2I8	174.0620811700	-80.6000000000	100.0000000000	-10.7801511700	-180.0000000000	0.0000000000	0.0000000000
423	D10082	174.8347371700	-80.6000000000	100.0000000000	-11.5528071700	-180.0000000000	0.0000000000	0.0000000000
424	MAT2L19H	174.8347371800	-80.6000000000	100.0000000000	-11.5528071800	-180.0000000000	0.0000000000	0.0000000000
425	D10083	175.2341911800	-80.6000000000	100.0000000000	-11.9522611800	-180.0000000000	0.0000000000	0.0000000000
426	IPM2L19	175.2341911800	-80.6000000000	100.0000000000	-11.9522611800	-180.0000000000	0.0000000000	0.0000000000
427	D10084	175.2511441800	-80.6000000000	100.0000000000	-11.9692141800	-180.0000000000	0.0000000000	0.0000000000
428	MQSSL	175.3211441800	-80.6000000000	100.0000000000	-12.0392141800	-180.0000000000	0.0000000000	0.0000000000
429	D10010	175.4211441800	-80.6000000000	100.0000000000	-12.1392141800	-180.0000000000	0.0000000000	0.0000000000
430	MQB2L19	175.5711441800	-80.6000000000	100.0000000000	-12.2892141800	-180.0000000000	0.0000000000	0.0000000000
431	D10080	176.6802041800	-80.6000000000	100.0000000000	-13.3982741800	-180.0000000000	0.0000000000	0.0000000000
432	R2J1	177.1802041800	-80.6000000000	100.0000000000	-13.8982741800	-180.0000000000	0.0000000000	0.0000000000
433	D10006	177.4302041800	-80.6000000000	100.0000000000	-14.1482741800	-180.0000000000	0.0000000000	0.0000000000
434	R2J2	177.9302041800	-80.6000000000	100.0000000000	-14.6482741800	-180.0000000000	0.0000000000	0.0000000000
435	D10081	178.5908291800	-80.6000000000	100.0000000000	-15.3088991800	-180.0000000000	0.0000000000	0.0000000000
436	R2J3	179.0908291800	-80.6000000000	100.0000000000	-15.8088991800	-180.0000000000	0.0000000000	0.0000000000
437	D10006	179.3408291800	-80.6000000000	100.0000000000	-16.0588991800	-180.0000000000	0.0000000000	0.0000000000
438	R2J4	179.8408291800	-80.6000000000	100.0000000000	-16.5588991800	-180.0000000000	0.0000000000	0.0000000000
439	D10081	180.5014541800	-80.6000000000	100.0000000000	-17.2195241800	-180.0000000000	0.0000000000	0.0000000000
440	R2J5	181.0014541800	-80.6000000000	100.0000000000	-17.7195241800	-180.0000000000	0.0000000000	0.0000000000
441	D10006	181.2514541800	-80.6000000000	100.0000000000	-17.9695241800	-180.0000000000	0.0000000000	0.0000000000
442	R2J6	181.7514541800	-80.6000000000	100.0000000000	-18.4695241800	-180.0000000000	0.0000000000	0.0000000000
443	D10081	182.4120791800	-80.6000000000	100.0000000000	-19.1301491800	-180.0000000000	0.0000000000	0.0000000000
444	R2J7	182.9120791800	-80.6000000000	100.0000000000	-19.6301491800			

466	R2K6	191.3514521900	-80.6000000000	100.0000000000	-28.0695221900	-180.0000000000	0.0000000000	0.0000000000
467	D10081	192.0120771900	-80.6000000000	100.0000000000	-28.7301471900	-180.0000000000	0.0000000000	0.0000000000
468	R2K7	192.5120771900	-80.6000000000	100.0000000000	-29.2301471900	-180.0000000000	0.0000000000	0.0000000000
469	D10006	192.7620771900	-80.6000000000	100.0000000000	-29.4801471900	-180.0000000000	0.0000000000	0.0000000000
470	R2K8	193.2620771900	-80.6000000000	100.0000000000	-29.9801471900	-180.0000000000	0.0000000000	0.0000000000
471	D10082	194.0347331900	-80.6000000000	100.0000000000	-30.7528031900	-180.0000000000	0.0000000000	0.0000000000
472	MAT2L21H	194.0347332000	-80.6000000000	100.0000000000	-30.7528032000	-180.0000000000	0.0000000000	0.0000000000
473	D10083	194.4341872000	-80.6000000000	100.0000000000	-31.1522572000	-180.0000000000	0.0000000000	0.0000000000
474	IPM2L21	194.4341872000	-80.6000000000	100.0000000000	-31.1522572000	-180.0000000000	0.0000000000	0.0000000000
475	D10084	194.4511402000	-80.6000000000	100.0000000000	-31.1692102000	-180.0000000000	0.0000000000	0.0000000000
476	MQSSL	194.5211402000	-80.6000000000	100.0000000000	-31.2392102000	-180.0000000000	0.0000000000	0.0000000000
477	D10010	194.6211402000	-80.6000000000	100.0000000000	-31.3392102000	-180.0000000000	0.0000000000	0.0000000000
478	MQB2L21	194.7711402000	-80.6000000000	100.0000000000	-31.4892102000	-180.0000000000	0.0000000000	0.0000000000
479	D10080	195.8802002000	-80.6000000000	100.0000000000	-32.5982702000	-180.0000000000	0.0000000000	0.0000000000
480	R2L1	196.3802002000	-80.6000000000	100.0000000000	-33.0982702000	-180.0000000000	0.0000000000	0.0000000000
481	D10006	196.6302002000	-80.6000000000	100.0000000000	-33.3482702000	-180.0000000000	0.0000000000	0.0000000000
482	R2L2	197.1302002000	-80.6000000000	100.0000000000	-33.8482702000	-180.0000000000	0.0000000000	0.0000000000
483	D10081	197.7908252000	-80.6000000000	100.0000000000	-34.5088952000	-180.0000000000	0.0000000000	0.0000000000
484	R2L3	198.2908252000	-80.6000000000	100.0000000000	-35.0088952000	-180.0000000000	0.0000000000	0.0000000000
485	D10006	198.5408252000	-80.6000000000	100.0000000000	-35.2588952000	-180.0000000000	0.0000000000	0.0000000000
486	R2L4	199.0408252000	-80.6000000000	100.0000000000	-35.7588952000	-180.0000000000	0.0000000000	0.0000000000
487	D10081	199.7014502000	-80.6000000000	100.0000000000	-36.4195202000	-180.0000000000	0.0000000000	0.0000000000
488	R2L5	200.2014502000	-80.6000000000	100.0000000000	-36.9195202000	-180.0000000000	0.0000000000	0.0000000000
489	D10006	200.4514502000	-80.6000000000	100.0000000000	-37.1695202000	-180.0000000000	0.0000000000	0.0000000000
490	R2L6	200.9514502000	-80.6000000000	100.0000000000	-37.6695202000	-180.0000000000	0.0000000000	0.0000000000
491	D10081	201.6120752000	-80.6000000000	100.0000000000	-38.3301452000	-180.0000000000	0.0000000000	0.0000000000
492	R2L7	202.1120752000	-80.6000000000	100.0000000000	-38.8301452000	-180.0000000000	0.0000000000	0.0000000000
493	D10006	202.3620752000	-80.6000000000	100.0000000000	-39.0801452000	-180.0000000000	0.0000000000	0.0000000000
494	R2L8	202.8620752000	-80.6000000000	100.0000000000	-39.5801452000	-180.0000000000	0.0000000000	0.0000000000
495	D10086	203.5171532000	-80.6000000000	100.0000000000	-40.2352232000	-180.0000000000	0.0000000000	0.0000000000
496	ITV2L22	203.5171532000	-80.6000000000	100.0000000000	-40.2352232000	-180.0000000000	0.0000000000	0.0000000000
497	D10087	203.6347312000	-80.6000000000	100.0000000000	-40.3528012000	-180.0000000000	0.0000000000	0.0000000000
498	MAT2L22V	203.6347312100	-80.6000000000	100.0000000000	-40.3528012100	-180.0000000000	0.0000000000	0.0000000000
499	D10083	204.0341852100	-80.6000000000	100.0000000000	-40.7522552100	-180.0000000000	0.0000000000	0.0000000000
500	IPM2L22	204.0341852100	-80.6000000000	100.0000000000	-40.7522552100	-180.0000000000	0.0000000000	0.0000000000
501	D10079	204.2211382100	-80.6000000000	100.0000000000	-40.9392082100	-180.0000000000	0.0000000000	0.0000000000
502	MQB2L22	204.3711382100	-80.6000000000	100.0000000000	-41.0892082100	-180.0000000000	0.0000000000	0.0000000000
503	D100A80	205.3801982100	-80.6000000000	100.0000000000	-42.0982682100	-180.0000000000	0.0000000000	0.0000000000
504	R2M1	206.0801982100	-80.6000000000	100.0000000000	-42.7982682100	-180.0000000000	0.0000000000	0.0000000000
505	D100A06	206.1301982100	-80.6000000000	100.0000000000	-42.8482682100	-180.0000000000	0.0000000000	0.0000000000
506	R2M2	206.8301982100	-80.6000000000	100.0000000000	-43.5482682100	-180.0000000000	0.0000000000	0.0000000000
507	D100A81	207.2908232100	-80.6000000000	100.0000000000	-44.0088932100	-180.0000000000	0.0000000000	0.0000000000
508	R2M3	207.9908232100	-80.6000000000	100.0000000000	-44.7088932100	-180.0000000000	0.0000000000	0.0000000000
509	D100A06	208.0408232100	-80.6000000000	100.0000000000	-44.7588932100	-180.0000000000	0.0000000000	0.0000000000
510	R2M4	208.7408232100	-80.6000000000	100.0000000000	-45.4588932100	-180.0000000000	0.0000000000	0.0000000000
511	D100A81	209.2014482100	-80.6000000000	100.0000000000	-45.9195182100	-180.0000000000	0.0000000000	0.0000000000
512	R2M5	209.9014482100	-80.6000000000	100.0000000000	-46.6195182100	-180.0000000000	0.0000000000	0.0000000000
513	D100A06	209.9514482100	-80.6000000000	100.0000000000	-46.6695182100	-180.0000000000	0.0000000000	0.0000000000
514	R2M6	210.6514482100	-80.6000000000	100.0000000000	-47.3695182100	-180.0000000000	0.0000000000	0.0000000000
515	D100A81	211.1120732100	-80.6000000000	100.0000000000	-47.8301432100	-180.0000000000	0.0000000000	0.0000000000
516	R2M7	211.8120732100	-80.6000000000	100.0000000000	-48.5301432100	-180.0000000000	0.0000000000	0.0000000000
517	D100A06	211.8620732100	-80.6000000000	100.0000000000	-48.5801432100	-180.0000000000	0.0000000000	0.0000000000
518	R2M8	212.5620732100	-80.6000000000	100.0000000000	-49.2801432100	-180.0000000000	0.0000000000	0.0000000000
519	D100A82	213.2347292100	-80.6000000000	100.0000000000	-49.9527992100	-180.0000000000	0.0000000000	0.0000000000
520	MAT2L23H	213.2347292200	-80.6000000000	100.0000000000	-49.9527992200	-180.0000000000	0.0000000000	0.0000000000
521	D100A83	213.6341832200	-80.6000000000	100.0000000000	-50.3522532200	-180.0000000000	0.0000000000	0.0000000000
522	IPM2L23	213.6341832200	-80.6000000000	100.0000000000	-50.3522532200	-180.0000000000	0.0000000000	0.0000000000
523	D100A79	213.8211362200	-80.6000000000	100.0000000000	-50.9532062200	-180.0000000000	0.0000000000	0.0000000000
524	MQB2L23	213.9711362200	-80.6000000000	100.0000000000	-50.6892062200	-180.0000000000	0.0000000000	0.0000000000
525	D100A80	214.9801962200	-80.6000000000	100.0000000000	-51.6982662200	-180.0000000000	0.0000000000	0.0000000000
526	R2N1	215.6801962200	-80.6000000000	100.0000000000	-52.3982662200	-180.0000000000	0.0000000000	0.0000000000
527	D100A06	215.7301962200	-80.6000000000	100.0000000000	-52.4482662200	-180.0000000000	0.0000000000	0.0000000000
528	R2N2	216.4301962200	-80.6000000000	100.0000000000	-53.1482662200	-180.0000000000	0.0000000000	0.0000000000
529	D100A81	216.8908212200	-80.6000000000	100.0000000000	-53.6088912200	-180.0000000000	0.0000000000	0.0000000000
530	R2N3	217.5908212200	-80.6000000000	100.0000000000	-54.3088912200	-180.0000000000	0.0000000000	0.0000000000
531	D100A06	217.6408212200	-80.6000000000	100.0000000000	-54.3588912200	-180.0000000000	0.0000000000	0.0000000000
532	R2N4	218.3408212200	-80.6000000000	100.0000000000	-55.0588912200	-180.0000000000	0.0000000000	0.0000000000
533	D100A81	218.8014462200	-80.6000000000	100.0000000000	-55.5195162200	-180.0000000000	0.0000000000	0.0000000000
534	R2N5	219.5014462200	-80.6000000000	100.0000000000	-56.2195162200	-180.0000000000	0.0000000000	0.0000000000
535	D100A06	219.5514462200	-80.6000000000	100.0000000000	-56.2695162200	-180.0000000000	0.0000000000	0.0000000000
536	R2N6	220.2514462200	-80.6000000000	100.0000000000	-56.9695162200	-180.0000000000	0.0000000000	0.0000000000
537	D100A81	220.7120712200	-80.6000000000	100.0000000000	-57.4301412200	-180.0000000000	0.0000000000	0.0000000000
538	R2N7	221.4120712200	-80.6000000000	100.0000000000	-58.1301412200	-180.0000000000	0.0000000000	0.0000000000
539	D100A06	221.4620712200	-80.6000000000	100.0000000000	-58.1801412200	-180.0000000000	0.0000000000	0.0000000000
540	R2N8	222.1620712200	-80.6000000000	100.0000000000	-58.8801412200	-180.0000000000	0.0000000000	0.0000000000
541	D100A82	222.8347272200	-80.6000000000	100.0000000000	-59.5527972200	-180.0000000000	0.0000000000	0.0000000000
542	MAT2L24V	222.8347272300	-80.6000000000	100.0000000000	-59.5527972300	-180.0000000000	0.0000000000	0.0000000000
543	D100A83	223.2341812300	-80.6000000000	100.0000000000	-59.9522512300	-180.0000000000	0.0000000000	0.0000000000
544	IPM2L24	223.2341812300	-80.6000000000	100.0000000000	-59.9522512300	-180.0000000000	0.0000000000	0.0000000000
545	D100A79	223.4211342300	-80.6000000000	100.0000000000	-60.1392042300	-180.0000000000	0.0000000000	0.0000000000
546	MQB2L24	223.5711342300	-80.6000000000	100.0000000000	-60.2892042300	-180.0000000000	0.0000000000	0.0000000000
547	D100A80	224.5801942300	-80.6000000000	100.0000000000	-61.2982642300	-180.0000000000	0.0000000000	0.0000000000
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570	R2P1	234.8801922400	-80.6000000000	100.0000000000	-71.5982622400	-180.0000000000	0.0000000000	0.0000000000
571	D100A06	234.9301922400	-80.6000000000	100.0000000000	-71.6482622400	-180.0000000000	0.0000000000	0.0000000000
572	R2P2	235.6301922400	-80.6000000000	100.0000000000	-72.3482622400	-180.0000000000	0.0000000000	0.0000000000
573	D100A81	236.0908172400	-80.6000000000	100.0000000000	-72.8088872400	-180.0000000000	0.0000000000	0.0000000000
574	R2P3	236.7908172400	-80.6000000000	100.0000000000	-73.5088872400	-180.0000000000	0.0000000000	0.0000000000
575	D100A06	236.8408172400	-80.6000000000	100.0000000000	-73.5588872400	-180.0000000000	0.0000000000	0.0000000000
576	R2P4	237.5408172400	-80.6000000000	100.0000000000	-74.2588872400	-180.0000000000	0.0000000000	0.0000000000
577	D100A81	238.0014422400	-80.6000000000	100.0000000000	-74.7195122400	-180.0000000000	0.0000000000	0.0000000000
578	R2P5	238.7014422400	-80.6000000000	100.0000000000	-75.4195122400	-180.0000000000	0.0000000000	0.0000000000
579	D100A06	238.7514422400	-80.6000000000	100.0000000000	-75.4695122400	-180.0000000000	0.0000000000	0.0000000000
580	R2P6	239.4514422400	-80.6000000000	100.0000000000	-76.1695122400	-180.0000000000	0.0000000000	0.0000000000
581	D100A81	239.9120672400	-80.6000000000	100.0000000000	-76.6301372400	-180.0000000000	0.0000000000	0.0000000000
582	R2P7	240.6120672400	-80.6000000000	100.0000000000	-77.3301372400	-180.0000000000	0.0000000000	0.0000000000
583	D100A06	240.6620672400	-80.6000000000	100.0000000000	-77.3801372400	-180.0000000000	0.0000000000	0.0000000000
584	R2P8	241.3620672400	-80.6000000000	100.0000000000	-78.0801372400	-180.0000000000	0.0000000000	0.0000000000
585	D100A86	241.9171452400	-80.6000000000	100.0000000000	-78.6352152400	-180.0000000000	0.0000000000	0.0000000000
586	ITV2L26	241.9171452400	-80.6000000000	100.0000000000	-78.6352152400	-180.0000000000	0.0000000000	0.0000000000
587	D100A87	242.0347232400	-80.6000000000	100.0000000000	-78.7527932400	-180.0000000000	0.0000000000	0.0000000000
588	MAT2L26V	242.0347232400	-80.6000000000	100.0000000000	-78.7527932400	-180.0000000000	0.0000000000	0.0000000000
589	D100A83	242.4341772500	-80.6000000000	100.0000000000	-79.1522472500	-180.0000000000	0.0000000000	0.0000000000
590	IPM2L26	242.4341772500	-80.6000000000	100.0000000000	-79.1522472500	-180.0000000000	0.0000000000	0.0000000000
591	D100A79	242.6211302500	-80.6000000000	100.0000000000	-79.3392002500	-180.0000000000	0.0000000000	0.0000000000
592	MQB2L26	242.7711302500	-80.6000000000	100.0000000000	-79.4892002500	-180.0000000000	0.0000000000	0.0000000000
593	D100A88	244.1796502500	-80.6000000000	100.0000000000	-80.8977202500	-180.0000000000	0.0000000000	0.0000000000
594	R2Q1	244.8796502500	-80.6000000000	100.0000000000	-81.5977202500	-180.0000000000	0.0000000000	0.0000000000
595	D100A06	244.9296502500	-80.6000000000	100.0000000000	-81.6477202500	-180.0000000000	0.0000000000	0.0000000000
596	R2Q2	245.6296502500	-80.6000000000	100.0000000000	-82.3477202500	-180.0000000000	0.0000000000	0.0000000000
597	D100A81	246.0902752500	-80.6000000000	100.0000000000	-82.8083452500	-180.0000000000	0.0000000000	0.0000000000
598	R2Q3	246.7902752500	-80.6000000000	100.0000000000	-83.5083452500	-180.0000000000	0.0000000000	0.0000000000
599	D100A06	246.8402752500	-80.6000000000	100.0000000000	-83.5583452500	-180.0000000000	0.0000000000	0.0000000000
600	R2Q4	247.5402752500	-80.6000000000	100.0000000000	-84.2583452500	-180.0000000000	0.0000000000	0.0000000000
601	D100A81	248.0009002500	-80.6000000000	100.0000000000	-84.7189702500	-180.0000000000	0.0000000000	0.0000000000
602	R2Q5	248.7009002500	-80.6000000000	100.0000000000	-85.4189702500	-180.0000000000	0.0000000000	0.0000000000
603	D100A06	248.7509002500	-80.6000000000	100.0000000000	-85.4689702500	-180.0000000000	0.0000000000	0.0000000000
604	R2Q6	249.4509002500	-80.6000000000	100.0000000000	-86.1689702500	-180.0000000000	0.0000000000	0.0000000000
605	D100A81	249.9115252500	-80.6000000000	100.0000000000	-86.6295952500	-180.0000000000	0.0000000000	0.0000000000
606	R2Q7	250.6115252500	-80.6000000000	100.0000000000	-87.3295952500	-180.0000000000	0.0000000000	0.0000000000
607	D100A06	250.6615252500	-80.6000000000	100.0000000000	-87.3795952500	-180.0000000000	0.0000000000	0.0000000000
608	R2Q8	251.3615252500	-80.6000000000	100.0000000000	-88.0795952500	-180.0000000000	0.0000000000	0.0000000000
609	D100A82	252.0341812500	-80.6000000000	100.0000000000	-88.7522512500	-180.0000000000	0.0000000000	0.0000000000
610	IPM2L27	252.0341812500	-80.6000000000	100.0000000000	-88.7522512500	-180.0000000000	0.0000000000	0.0000000000
611	D100A79	252.2211342500	-80.6000000000	100.0000000000	-88.9392042500	-180.0000000000	0.0000000000	0.0000000000
612	MQB2L27	252.3711342500	-80.6000000000	100.0000000000	-89.0892042500	-180.0000000000	0.0000000000	0.0000000000
613	D100A89	254.8067342500	-80.6000000000	100.0000000000	-91.5248042500	-180.0000000000	0.0000000000	0.0000000000

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STOP

bsy2p.outd

LDIMAT VERSION 2.9 PROD
ODATE AND TIME OF THIS RUN: 12-JUN-2007 12:59:49

XSIF Parser Version 2.1
Version Date: 01-JAN-2004
Run: 12-JUN-2007 12:59:49
XSIF Parser developed by NLC Department,
Stanford Linear Accelerator Center.

UTRANSPORT

TITLE

CONVERTED FROM ../.././OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//BSY2P.OPT

- 5 MAW2S01: SBEND, L=1.00595, ANGLE=10.8011, K1=-0.0452469, &
E1=0, E2=10.8011, HGAP=0.01905, &
HGAPX=0.01905, &
FINT=0.5, TILT=90
- 10 D3000: DRIFT, L=6.10821
MAL2S03: SBEND, L=1.00148, ANGLE=-10.8011, K1=-0.134538, &
E1=-5.40054, E2=-5.40054, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=90
- 15 D3001: DRIFT, L=0.445348
IPM2S01: MONITOR, L=0
D3002: DRIFT, L=0.29965
MQB2S01: QUADRUPOLE, L=0.15, K1=-1.39469, TILT=0
D3003: DRIFT, L=0.26815
- 20 MBT2S01H: GKICK, L=1E-08, DXP=0, DYP=0
D3004: DRIFT, L=0.19609
MBT2S01V: GKICK, L=1E-08, DXP=0, DYP=0
D3005: DRIFT, L=0.50546
ITV2S01: MONITOR, L=0
D3006: DRIFT, L=3.30065
IPM2S02: MONITOR, L=0
D3007: DRIFT, L=0.22465
MQC2S02: QUADRUPOLE, L=0.3, K1=1.23045, TILT=0
D3008: DRIFT, L=0.19315
- 30 MBT2S02H: GKICK, L=1E-08, DXP=0, DYP=0
MBT2S02V: GKICK, L=1E-08, DXP=0, DYP=0
D3009: DRIFT, L=1.44611
IPM2S03: MONITOR, L=0
MQC2S03: QUADRUPOLE, L=0.3, K1=-1.44724, TILT=0
- 35 MBT2S03H: GKICK, L=1E-08, DXP=0, DYP=0
MBT2S03V: GKICK, L=1E-08, DXP=0, DYP=0
D3010: DRIFT, L=0.56076
MAI2S04: SBEND, L=1.00114, ANGLE=9.48626, K1=-0, &
E1=4.74314, E2=4.74314, HGAP=0.0127, &
HGAPX=0.0127, &
- 40


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    FINT=0.5, TILT=90
D3011: DRIFT, L=3.0416
MAI2S06: SBEND, L=1.00114, ANGLE=-9.48626, K1=-0.151059, &
E1=-4.74314, E2=-4.74314, HGAP=0.0127, &
45   HGAPX=0.0127, &
    FINT=0.5, TILT=90
D3012: DRIFT, L=2.15
MQC2S04: QUADRUPOLE, L=0.3, K1=-1.15311, TILT=0
D3013: DRIFT, L=0.8947
50   ITV2S04: MONITOR, L=0
D3014: DRIFT, L=0.18065
IPM2S05: MONITOR, L=0
MQC2S05: QUADRUPOLE, L=0.3, K1=0.832356, TILT=0
MBT2S05H: GKICK, L=1E-08, DXP=0, DYP=0
55   MBT2S05V: GKICK, L=1E-08, DXP=0, DYP=0
D3015: DRIFT, L=0.91076
MQC2S06: QUADRUPOLE, L=0.3, K1=0, TILT=0
D3016: DRIFT, L=0.38924
MBT2S06V: GKICK, L=1E-08, DXP=0, DYP=0
60   D3017: DRIFT, L=5.48611
IPM2S07: MONITOR, L=0
MQC2S07: QUADRUPOLE, L=0.3, K1=0, TILT=0
MBT2S07H: GKICK, L=1E-08, DXP=0, DYP=0
55   MBT2S07V: GKICK, L=1E-08, DXP=0, DYP=0
D3018: DRIFT, L=2.28611
65   IPM2S08: MONITOR, L=0
MQC2S08: QUADRUPOLE, L=0.3, K1=-0.310781, TILT=0
MBT2S08H: GKICK, L=1E-08, DXP=0, DYP=0
MBT2S08V: GKICK, L=1E-08, DXP=0, DYP=0
70   IPM2S09: MONITOR, L=0
MQC2S09: QUADRUPOLE, L=0.3, K1=0, TILT=0
MBT2S09H: GKICK, L=1E-08, DXP=0, DYP=0
MBT2S09V: GKICK, L=1E-08, DXP=0, DYP=0
75   IPM2S10: MONITOR, L=0
MQC2S10: QUADRUPOLE, L=0.3, K1=0.309967, TILT=0
MBT2S10H: GKICK, L=1E-08, DXP=0, DYP=0
MBT2S10V: GKICK, L=1E-08, DXP=0, DYP=0
D3019: DRIFT, L=0.74913
80   RRF2T01L: SBEND, L=0.35, ANGLE=-0.00286479, K1=-0, &
E1=-0, E2=-0, HGAP=0, &
HGAPX=0, &
    FINT=0.5, TILT=0
RRF2T01: GKICK, L=1E-08, DXP=-3.66973E-07, DYP=-0
RRF2T01R: SBEND, L=0.35, ANGLE=-0.00286479, K1=-0, &
85   E1=-0, E2=-0, HGAP=0, &
HGAPX=0, &
    FINT=0.5, TILT=0
D3020: DRIFT, L=14.187
IPM2E01: MONITOR, L=0
90   MQB2E01: SBEND, L=0.15, ANGLE=-0.00733855, K1=724730, &
E1=-0, E2=-0, HGAP=0, &
HGAPX=0, &
    FINT=0.5, TILT=0
MBT2E01H: GKICK, L=1E-08, DXP=0, DYP=0
95   MBT2E01V: GKICK, L=1E-08, DXP=0, DYP=0
D3021: DRIFT, L=0.4803
MBW2E01: SBEND, L=0.500137, ANGLE=-2.32225, K1=-0, &
E1=-0, E2=-2.32225, HGAP=0, &
100  HGAPX=0, &
    FINT=0.5, TILT=0
D3022: DRIFT, L=5.75478
MBX2E02: SBEND, L=1.00027, ANGLE=4.64449, K1=-0, &
E1=-2.32225, E2=2.32225, HGAP=0, &
105  HGAPX=0, &
    FINT=0.5, TILT=0
D3023: DRIFT, L=5.75468
MBW2E03: SBEND, L=0.500137, ANGLE=-2.32225, K1=-0, &
E1=-2.32225, E2=-0, HGAP=0, &
110  HGAPX=0, &
    FINT=0.5, TILT=0
D3024: DRIFT, L=1.15035
IPM2E02: MONITOR, L=0
115  MQB2E02: SBEND, L=0.15, ANGLE=0.0258382, K1=-62804.1, &
E1=0, E2=0, HGAP=0, &
HGAPX=0, &
    FINT=0.5, TILT=0
MBT2E02H: GKICK, L=1E-08, DXP=0, DYP=0
MBT2E02V: GKICK, L=1E-08, DXP=0, DYP=0
120  ITV2E02: MONITOR, L=0
D3025: DRIFT, L=0.26931
MYA2T01: SBEND, L=1, ANGLE=-0.0762033, K1=-0, &
E1=-0, E2=-0, HGAP=0, &
HGAPX=0, &
125  FINT=0.5, TILT=0
D3026: DRIFT, L=13.8613
IPM2E03: MONITOR, L=0
MQB2E03: SBEND, L=0.15, ANGLE=-0.104248, K1=4558.73, &
E1=-0, E2=-0, HGAP=0, &
HGAPX=0, &
130  FINT=0.5, TILT=0
MBT2E03H: GKICK, L=1E-08, DXP=0, DYP=0
MBT2E03V: GKICK, L=1E-08, DXP=0, DYP=0
D3027: DRIFT, L=6.93581
MYB2T02: SBEND, L=1.00024, ANGLE=-1.93647, K1=-0, &
135  E1=0.167682, E2=-2.10415, HGAP=0, &
HGAPX=0, &
    FINT=0.5, TILT=0
D3028: DRIFT, L=7.97621
IPM2T00A: MONITOR, L=0
140  D3029: DRIFT, L=0.2794
MBP2T03: SBEND, L=2.00046, ANGLE=4.24976, K1=-0, &
E1=2.11739, E2=2.13238, HGAP=0, &
HGAPX=0, &
    FINT=0.5, TILT=0

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145 D3030: DRIFT, L=8.97304
 IPM2T00B: MONITOR, L=0
 D3031: DRIFT, L=0.2834
 MBQ2T04: SBEND, L=1.00023, ANGLE=-2.14561, K1=-0, &
 E1=-2.14562, E2=-0, HGAP=0, &
 150 HGAPX=0, &
 FINT=0.5, TILT=0
 D3032: DRIFT, L=0.500346
 IPM2T01: MONITOR, L=0
 MQB2T01: QUADRUPOLE, L=0.15, K1=1.22379, TILT=0
 155 MBC2T01H: GKICK, L=1E-08, DXP=0, DYP=0
 MBC2T01V: GKICK, L=1E-08, DXP=0, DYP=0
 D3033: DRIFT, L=1.38576
 MQB2T02: QUADRUPOLE, L=0.15, K1=-1.36657, TILT=0
 160 MBC2T02H: GKICK, L=1E-08, DXP=0, DYP=0
 D3034: DRIFT, L=3.2822
 IPM2T03: MONITOR, L=0
 MQB2T03: QUADRUPOLE, L=0.15, K1=0, TILT=0
 165 MBC2T03H: GKICK, L=1E-08, DXP=0, DYP=0
 MBC2T03V: GKICK, L=1E-08, DXP=0, DYP=0
 D3035: DRIFT, L=3.38576
 MQB2T04: QUADRUPOLE, L=0.15, K1=0, TILT=0
 170 MBC2T04H: GKICK, L=1E-08, DXP=0, DYP=0
 MBC2T04V: GKICK, L=1E-08, DXP=0, DYP=0
 MQB2T05: QUADRUPOLE, L=0.15, K1=-0.731753, TILT=0
 D3036: DRIFT, L=0.46424
 175 MBC2T05V: GKICK, L=1E-08, DXP=0, DYP=0
 D3037: DRIFT, L=1.08611
 IPM2T06: MONITOR, L=0
 MQB2T06: QUADRUPOLE, L=0.15, K1=0.734792, TILT=0
 180 MBC2T06H: GKICK, L=1E-08, DXP=0, DYP=0
 D3038: DRIFT, L=3.46887
 MAI2T01: SBEND, L=1.00114, ANGLE=-9.48626, K1=0.324303, &
 E1=-4.74314, E2=-4.74314, HGAP=0.0127, &
 185 HGAPX=0.0127, &
 FINT=0.5, TILT=90
 MAI2T03: SBEND, L=1.00114, ANGLE=9.48626, K1=-0, &
 E1=4.74314, E2=4.74314, HGAP=0.0127, &
 190 HGAPX=0.0127, &
 FINT=0.5, TILT=90
 D3039: DRIFT, L=0.372497
 IPM2T07: MONITOR, L=0
 MQC2T07: QUADRUPOLE, L=0.3, K1=-1.4342, TILT=0
 195 MBC2T07H: GKICK, L=1E-08, DXP=0, DYP=0
 MBC2T07V: GKICK, L=1E-08, DXP=0, DYP=0
 IPM2T08: MONITOR, L=0
 MQC2T08: QUADRUPOLE, L=0.3, K1=0.9772, TILT=0
 200 MBC2T08H: GKICK, L=1E-08, DXP=0, DYP=0
 MBC2T08V: GKICK, L=1E-08, DXP=0, DYP=0
 D3040: DRIFT, L=3.80611
 IPM2T09: MONITOR, L=0
 MQC2T09: QUADRUPOLE, L=0.3, K1=-0.666012, TILT=0
 205 MBC2T09H: GKICK, L=1E-08, DXP=0, DYP=0
 MBC2T09V: GKICK, L=1E-08, DXP=0, DYP=0
 D3041: DRIFT, L=0.63361
 MAL2T04: SBEND, L=1.00148, ANGLE=-10.8011, K1=-0.450583, &
 E1=-5.40054, E2=-5.40054, HGAP=0.0127, &
 210 HGAPX=0.0127, &
 FINT=0.5, TILT=90
 D3042: DRIFT, L=6.10822
 MAW2T06: SBEND, L=1.00595, ANGLE=10.8011, K1=-0.0505123, &
 E1=10.8011, E2=0, HGAP=0.01905, &
 215 HGAPX=0.01905, &
 FINT=0.5, TILT=90
 D3043: DRIFT, L=1.22622
 IHA2C00: MONITOR, L=0
 D3044: DRIFT, L=0.7738
 BSY2P: LINE=(MAW2S01, &
 220 D3000, MAL2S03, D3001, IPM2S01, D3002, &
 MQB2S01, D3003, MBT2S01H, D3004, MBT2S01V, &
 D3005, ITV2S01, D3006, IPM2S02, D3007, &
 MQC2S02, D3008, MBT2S02H, D3004, MBT2S02V, &
 D3009, IPM2S03, D3007, MQC2S03, D3008, &
 MBT2S03H, D3004, MBT2S03V, D3010, MAI2S04, &
 225 D3011, MAI2S06, D3012, MQC2S04, D3013, &
 ITV2S04, D3014, IPM2S05, D3007, MQC2S05, &
 D3008, MBT2S05H, D3004, MBT2S05V, D3015, &
 MQC2S06, D3016, MBT2S06V, D3017, IPM2S07, &
 D3007, MQC2S07, D3008, MBT2S07H, D3004, &
 MBT2S07V, D3018, IPM2S08, D3007, MQC2S08, &
 D3008, MBT2S08H, D3004, MBT2S08V, D3018, &
 230 IPM2S09, D3007, MQC2S09, D3008, MBT2S09H, &
 D3004, MBT2S09V, D3018, IPM2S10, D3007, &
 MQC2S10, D3008, MBT2S10H, D3004, MBT2S10V, &
 D3019, RRF2T01L, RRF2T01, RRF2T01R, D3020, &
 IPM2E01, D3002, MQB2E01, D3003, MBT2E01H, &
 D3004, MBT2E01V, D3005, D3021, MBW2E01, &
 D3022, MBX2E02, D3023, MBW2E03, D3024, &
 IPM2E02, D3002, MQB2E02, D3003, MBT2E02H, &
 235 D3004, MBT2E02V, D3005, ITV2E02, D3025, &
 MYA2T01, D3026, IPM2E03, D3002, MQB2E03, &
 D3003, MBT2E03H, D3004, MBT2E03V, D3027, &
 MYB2T02, D3028, IPM2T00A, D3029, MBP2T03, &
 D3030, IPM2T00B, D3031, MBQ2T04, D3032, &
 240 IPM2T01, D3002, MQB2T01, D3003, MBC2T01H, &
 D3004, MBC2T01V, D3033, MQB2T02, D3003, &
 MBC2T02H, D3034, IPM2T03, D3002, MQB2T03, &
 D3003, MBC2T03H, D3004, MBC2T03V, D3035, &
 MQB2T04, D3003, MBC2T04H, D3004, MBC2T04V, &
 245 D3035, MQB2T05, D3036, MBC2T05V, D3037, &
 IPM2T06, D3002, MQB2T06, D3003, MBC2T06H, &
 D3038, MAI2T01, D3011, MAI2T03, D3039, &
 IPM2T07, D3007, MQC2T07, D3008, MBC2T07H, &

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250   D3004, MBC2T07V, D3009, IPM2T08, D3007, &
      MQC2T08, D3008, MBC2T08H, D3004, MBC2T08V, &
      D3040, IPM2T09, D3007, MQC2T09, D3008, &
      MBC2T09H, D3004, MBC2T09V, D3041, MAL2T04, &
      D3042, MAW2T06, D3043, IHA2C00, D3044 &
      )
255   USE, BSY2P
      DIMAT
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* DIMAD PROGRAM : LAST MODIFIED ON May 27, 2005 *
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1 CONVERTED FROM ../../OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//BSY2P.OPT

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TOTAL LENGTH OF MACHINE IS: 167.154 METERS

IN THIS RUN THERE ARE :
146 DISTINCT ELEMENTS. ALLOCATED MXELMD : 147
201 ELEMENTS IN MACHINE. ALLOCATED MXPOS_D : 203
39 MATRICES DEFINED. ALLOCATED MAXMAT : 40
949 VALUES IN ELDAT. ALLOCATED MAXDAT : 949
0 LCAVs. ALLOCATED MX_LCAV : 1

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1 OPERATION LIST ,

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MACHINE
1 2 1 0 1 1 1
23.2491 3.12569 4.01846e-06 5.10007e-08
6.7694 -1.24667 1.11081e-05 1.74783e-06
0,

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ELEMENT	#	BETAX	ALPHAX	BETAY	ALPHAY	ETAX	ETAPX	ETAY	ETAPY	NUX	NUY	ACC.LEN
\$\$INITIAL\$\$	0	23.2491	3.1257	6.7694	-1.2467	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.000
MAW2S01	1	17.4873	3.2331	9.3447	-1.6157	0.0000	0.0000	0.0945	0.1907	0.00795	0.02006	1.006
D3000	2	2.4259	-0.7673	43.4980	-3.9757	0.0000	0.0000	1.2596	0.1907	0.31437	0.06905	7.114
MAL2S03	3	4.5268	-1.2973	51.5636	-4.1129	0.0000	0.0000	1.3522	-0.0047	0.36327	0.07239	8.116
D3001	4	5.7999	-1.5613	55.2958	-4.2677	0.0000	0.0000	1.3501	-0.0047	0.37712	0.07372	8.561
IPM2S01	5	5.7999	-1.5613	55.2958	-4.2677	0.0000	0.0000	1.3501	-0.0047	0.37712	0.07372	8.561
D3002	6	6.7888	-1.7389	57.8846	-4.3718	0.0000	0.0000	1.3487	-0.0047	0.38473	0.07456	8.861
MQC2S01	7	7.5502	-3.3901	57.3791	7.7066	0.0000	0.0000	1.3269	-0.2853	0.38808	0.07497	9.011
D3003	8	9.4873	-3.8338	53.3217	7.4244	0.0000	0.0000	1.2504	-0.2853	0.39312	0.07574	9.279
MBT2S01H	9	9.4873	-3.8338	53.3217	7.4244	0.0000	0.0000	1.2504	-0.2853	0.39312	0.07574	9.279
D3004	10	11.0545	-4.1583	50.4505	7.2180	0.0000	0.0000	1.1945	-0.2853	0.39617	0.07635	9.475
MBT2S01V	11	11.0545	-4.1583	50.4505	7.2180	0.0000	0.0000	1.1945	-0.2853	0.39617	0.07635	9.475
D3005	12	15.6809	-4.9946	43.4226	6.6860	0.0000	0.0000	1.0502	-0.2853	0.40228	0.07807	9.980
ITV2S01	13	15.6809	-4.9946	43.4226	6.6860	0.0000	0.0000	1.0502	-0.2853	0.40228	0.07807	9.980
D3006	14	66.6783	-10.4561	10.7526	3.2120	0.0000	0.0000	0.1086	-0.2853	0.41856	0.10247	13.281
IPM2S02	15	66.6783	-10.4561	10.7526	3.2120	0.0000	0.0000	0.1086	-0.2853	0.41856	0.10247	13.281
D3007	16	71.4597	-10.8278	9.3625	2.9756	0.0000	0.0000	0.0445	-0.2853	0.41907	0.10604	13.506
MQC2S02	17	70.0051	15.4961	8.6163	-0.3972	0.0000	0.0000	-0.0402	-0.2845	0.41974	0.11145	13.806
D3008	18	64.1475	14.8308	8.7748	-0.4231	0.0000	0.0000	-0.0952	-0.2845	0.42020	0.11499	13.999
MBT2S02H	19	64.1475	14.8308	8.7748	-0.4231	0.0000	0.0000	-0.0952	-0.2845	0.42020	0.11499	13.999
D3004	20	58.4636	14.1554	8.9459	-0.4495	0.0000	0.0000	-0.1510	-0.2845	0.42070	0.11851	14.195
MBT2S02V	21	58.4636	14.1554	8.9459	-0.4495	0.0000	0.0000	-0.1510	-0.2845	0.42070	0.11851	14.195
D3009	22	24.7262	9.1743	10.5268	-0.6438	0.0000	0.0000	-0.5624	-0.2845	0.42676	0.14232	15.641
IPM2S03	23	24.7262	9.1743	10.5268	-0.6438	0.0000	0.0000	-0.5624	-0.2845	0.42676	0.14232	15.641
D3007	24	20.7780	8.4005	10.8229	-0.6740	0.0000	0.0000	-0.6263	-0.2845	0.42834	0.14567	15.866
MQC2S03	25	18.4381	-0.2651	9.8551	3.7587	0.0000	0.0000	-0.6695	-0.0001	0.43083	0.15019	16.166
D3008	26	18.5427	-0.2763	8.4603	3.4622	0.0000	0.0000	-0.6695	-0.0001	0.43249	0.15356	16.359
MBT2S03H	27	18.5427	-0.2763	8.4603	3.4622	0.0000	0.0000	-0.6695	-0.0001	0.43249	0.15356	16.359
D3004	28	18.6533	-0.2877	7.1616	3.1612	0.0000	0.0000	-0.6696	-0.0001	0.43417	0.15757	16.555
MBT2S03V	29	18.6533	-0.2877	7.1616	3.1612	0.0000	0.0000	-0.6696	-0.0001	0.43417	0.15757	16.555
D3010	30	18.9942	-0.3203	4.0989	2.3004	0.0000	0.0000	-0.6696	-0.0001	0.43891	0.17407	17.116
MAL2S04	31	19.1800	0.1371	1.0384	0.7707	0.0000	0.0000	-0.5871	0.1658	0.44726	0.25430	18.117
D3011	32	18.8371	-0.0244	10.5511	-3.8982	0.0000	0.0000	-0.0827	0.1658	0.47284	0.56884	21.158
MAL2S06	33	18.5147	0.3426	19.7782	-5.3478	0.0000	0.0000	0.0000	0.0000	0.48138	0.57982	22.160
D3012	34	17.3204	0.2129	49.6913	-8.5653	0.0000	0.0000	0.0000	0.0000	0.50054	0.59074	24.310
MQC2S04	35	19.0498	-6.1757	49.6313	8.7583	0.0000	0.0000	0.0000	0.0000	0.50321	0.59169	24.610
D3013	36	31.7452	-8.0139	35.2126	7.3575	0.0000	0.0000	0.0000	0.0000	0.50900	0.59509	25.504
ITV2S04	37	31.7452	-8.0139	35.2126	7.3575	0.0000	0.0000	0.0000	0.0000	0.50900	0.59509	25.504
D3014	38	34.7077	-8.3851	32.6054	7.0746	0.0000	0.0000	0.0000	0.0000	0.50987	0.59594	25.685
IPM2S05	39	34.7077	-8.3851	32.6054	7.0746	0.0000	0.0000	0.0000	0.0000	0.50987	0.59594	25.685
D3007	40	38.5788	-8.8466	29.5058	6.7229	0.0000	0.0000	0.0000	0.0000	0.51085	0.59710	25.910
MQC2S05	41	40.9874	1.0194	27.6781	-0.4793	0.0000	0.0000	0.0000	0.0000	0.51203	0.59879	26.210
D3008	42	40.5955	1.0098	27.8649	-0.4879	0.0000	0.0000	0.0000	0.0000	0.51279	0.59989	26.403
MBT2S05H	43	40.5955	1.0098	27.8649	-0.4879	0.0000	0.0000	0.0000	0.0000	0.51279	0.59989	26.403
D3004	44	40.2013	1.0001	28.0580	-0.4966	0.0000	0.0000	0.0000	0.0000	0.51356	0.60101	26.599
MBT2S05V	45	40.2013	1.0001	28.0580	-0.4966	0.0000	0.0000	0.0000	0.0000	0.51356	0.60101	26.599
D3015	46	38.4210	0.9548	28.9994	-0.5370	0.0000	0.0000	0.0000	0.0000	0.51725	0.60609	27.510

MQC2S06	47	37.8526	0.9398	29.3256	-0.5504	0.0000	0.0000	0.0000	0.0000	0.51850	0.60773	27.810
D3016	48	37.1285	0.9205	29.7608	-0.5677	0.0000	0.0000	0.0000	0.0000	0.52015	0.60983	28.199
MBT2S06V	49	37.1285	0.9205	29.7608	-0.5677	0.0000	0.0000	0.0000	0.0000	0.52015	0.60983	28.199
D3017	50	28.5264	0.6475	37.3265	-0.8114	0.0000	0.0000	0.0000	0.0000	0.54711	0.63614	33.685
IPM2S07	51	28.5264	0.6475	37.3265	-0.8114	0.0000	0.0000	0.0000	0.0000	0.54711	0.63614	33.685
D3007	52	28.2380	0.6363	37.6933	-0.8214	0.0000	0.0000	0.0000	0.0000	0.54837	0.63710	33.910
MQC2S07	53	27.8607	0.6214	38.1902	-0.8347	0.0000	0.0000	0.0000	0.0000	0.55007	0.63836	34.210
D3008	54	27.6225	0.6118	38.5143	-0.8433	0.0000	0.0000	0.0000	0.0000	0.55118	0.63916	34.403
MBT2S07H	55	27.6225	0.6118	38.5143	-0.8433	0.0000	0.0000	0.0000	0.0000	0.55118	0.63916	34.403
D3004	56	27.3845	0.6020	38.8467	-0.8520	0.0000	0.0000	0.0000	0.0000	0.55232	0.63996	34.599
MBT2S07V	57	27.3845	0.6020	38.8467	-0.8520	0.0000	0.0000	0.0000	0.0000	0.55232	0.63996	34.599
D3018	58	24.8918	0.4883	42.9745	-0.9536	0.0000	0.0000	0.0000	0.0000	0.56627	0.64887	36.885
IPM2S08	59	24.8918	0.4883	42.9745	-0.9536	0.0000	0.0000	0.0000	0.0000	0.56627	0.64887	36.885
D3007	60	24.6749	0.4771	43.4052	-0.9636	0.0000	0.0000	0.0000	0.0000	0.56771	0.64970	37.110
MQC2S08	61	25.0844	-1.8548	42.7738	3.0486	0.0000	0.0000	0.0000	0.0000	0.56964	0.65080	37.410
D3008	62	25.8076	-1.8890	41.6051	3.0021	0.0000	0.0000	0.0000	0.0000	0.57085	0.65153	37.603
MBT2S08H	63	25.8076	-1.8890	41.6051	3.0021	0.0000	0.0000	0.0000	0.0000	0.57085	0.65153	37.603
D3004	64	26.5552	-1.9237	40.4370	2.9549	0.0000	0.0000	0.0000	0.0000	0.57204	0.65229	37.799
MBT2S08V	65	26.5552	-1.9237	40.4370	2.9549	0.0000	0.0000	0.0000	0.0000	0.57204	0.65229	37.799
D3018	66	36.2761	-2.3284	28.1843	2.4047	0.0000	0.0000	0.0000	0.0000	0.58377	0.66308	40.085
IPM2S09	67	36.2761	-2.3284	28.1843	2.4047	0.0000	0.0000	0.0000	0.0000	0.58377	0.66308	40.085
D3007	68	37.3312	-2.3682	27.1160	2.3507	0.0000	0.0000	0.0000	0.0000	0.58475	0.66437	40.310
MQC2S09	69	38.7680	-2.4213	25.7273	2.2785	0.0000	0.0000	0.0000	0.0000	0.58600	0.66618	40.610
D3008	70	39.7100	-2.4555	24.8561	2.2320	0.0000	0.0000	0.0000	0.0000	0.58678	0.66740	40.803
MBT2S09H	71	39.7100	-2.4555	24.8561	2.2320	0.0000	0.0000	0.0000	0.0000	0.58678	0.66740	40.803
D3004	72	40.6798	-2.4902	23.9900	2.1848	0.0000	0.0000	0.0000	0.0000	0.58756	0.66867	40.999
MBT2S09V	73	40.6798	-2.4902	23.9900	2.1848	0.0000	0.0000	0.0000	0.0000	0.58756	0.66867	40.999
D3018	74	52.9906	-2.8949	15.2584	1.6346	0.0000	0.0000	0.0000	0.0000	0.59540	0.68774	43.285
IPM2S10	75	52.9906	-2.8949	15.2584	1.6346	0.0000	0.0000	0.0000	0.0000	0.59540	0.68774	43.285
D3007	76	54.3002	-2.9346	14.5361	1.5806	0.0000	0.0000	0.0000	0.0000	0.59607	0.69014	43.510
MQC2S10	77	54.5434	2.1315	14.0011	0.2190	0.0000	0.0000	0.0000	0.0000	0.59694	0.69350	43.810
D3008	78	53.7238	2.1118	13.9193	0.2046	0.0000	0.0000	0.0000	0.0000	0.59751	0.69570	44.003
MBT2S10H	79	53.7238	2.1118	13.9193	0.2046	0.0000	0.0000	0.0000	0.0000	0.59751	0.69570	44.003
D3004	80	52.8995	2.0919	13.8420	0.1899	0.0000	0.0000	0.0000	0.0000	0.59809	0.69795	44.199
MBT2S10V	81	52.8995	2.0919	13.8420	0.1899	0.0000	0.0000	0.0000	0.0000	0.59809	0.69795	44.199
D3019	82	49.8224	2.0158	13.5994	0.1338	0.0000	0.0000	0.0000	0.0000	0.60042	0.70665	44.948
RRF2T01L	83	48.4238	1.9802	13.5149	0.1076	0.0000	0.0000	0.0000	0.0000	0.60155	0.71076	45.298
RRRF2T01	84	48.4238	1.9802	13.5149	0.1076	0.0000	0.0000	0.0000	0.0000	0.60155	0.71076	45.298
RRF2T01R	85	47.0501	1.9446	13.4488	0.0814	-0.0001	-0.0001	0.0000	0.0000	0.60272	0.71489	45.648
D3020	86	12.3279	0.5028	26.2030	-0.9805	-0.0015	-0.0001	0.0000	0.0000	0.70297	0.85125	59.835
IPM2E01	87	12.3279	0.5028	26.2030	-0.9805	-0.0015	-0.0001	0.0000	0.0000	0.70297	0.85125	59.835
D3002	88	12.0357	0.4724	26.7973	-1.0029	-0.0015	-0.0001	0.0000	0.0000	0.70689	0.85305	60.135
MQB2E01	89	12.0388	-0.4932	26.7802	1.1169	-0.0015	-0.0003	0.0000	0.0000	0.70887	0.85394	60.285
D3003	90	12.3107	-0.5209	26.1872	1.0944	-0.0016	-0.0003	0.0000	0.0000	0.71238	0.85555	60.553
MBT2E01H	91	12.3107	-0.5209	26.1872	1.0944	-0.0016	-0.0003	0.0000	0.0000	0.71238	0.85555	60.553
D3004	92	12.5190	-0.5412	25.7612	1.0780	-0.0017	-0.0003	0.0000	0.0000	0.71489	0.85675	60.749
MBT2E01V	93	12.5190	-0.5412	25.7612	1.0780	-0.0017	-0.0003	0.0000	0.0000	0.71489	0.85675	60.749
D3005	94	13.0925	-0.5934	24.6929	1.0355	-0.0019	-0.0003	0.0000	0.0000	0.72118	0.85994	61.254
D3021	95	13.6863	-0.6430	23.7175	0.9952	-0.0020	-0.0003	0.0000	0.0000	0.72689	0.86310	61.735
MBW2E01	96	14.3321	-0.6947	22.7430	1.0280	-0.0123	-0.0409	0.0000	0.0000	0.73257	0.86653	62.235
D3022	97	25.7532	-1.2900	13.9062	0.5076	-0.2477	-0.0409	0.0000	0.0000	0.78099	0.91897	67.989
MBX2E02	98	28.4342	-1.3933	12.8933	0.5017	-0.2481	0.0402	0.0000	0.0000	0.78687	0.93087	68.990
D3023	99	47.8960	-1.9886	10.3341	-0.0570	-0.0167	0.0402	0.0000	0.0000	0.81179	1.01394	74.744
MBW2E03	100	49.9909	-2.0403	10.3814	-0.0714	-0.0067	-0.0003	0.0000	0.0000	0.81341	1.02163	75.245
D3024	101	54.8216	-2.1591	10.6739	-0.1828	-0.0071	-0.0003	0.0000	0.0000	0.81691	1.03906	76.395
IPM2E02	102	54.8216	-2.1591	10.6739	-0.1828	-0.0071	-0.0003	0.0000	0.0000	0.81691	1.03906	76.395
D3002	103	56.1248	-2.1900	10.7921	-0.2118	-0.0072	-0.0003	0.0000	0.0000	0.81777	1.04350	76.695
MQB2E02	104	56.0647	2.5887	10.9968	-1.1587	-0.0072	0.0007	0.0000	0.0000	0.81820	1.04570	76.845
D3003	105	54.6863	2.5519	11.6335	-1.2158	-0.0070	0.0007	0.0000	0.0000	0.81897	1.04947	77.113
MBT2E02H	106	54.6863	2.5519	11.6335	-1.2158	-0.0070	0.0007	0.0000	0.0000	0.81897	1.04947	77.113
D3004	107	53.6908	2.5250	12.1185	-1.2576	-0.0069	0.0007	0.0000	0.0000	0.81954	1.05210	77.309
MBT2E02V	108	53.6908	2.5250	12.1185	-1.2576	-0.0069	0.0007	0.0000	0.0000	0.81954	1.05210	77.309
D3005	109	51.1733	2.4555	13.4443	-1.3652	-0.0065	0.0007	0.0000	0.0000	0.82108	1.05840	77.814
ITV2E02	110	51.1733	2.4555	13.4443	-1.3652	-0.0065	0.0007	0.0000	0.0000	0.82108	1.05840	77.814
D3025	111	49.8607	2.4185	14.1951	-1.4226	-0.0063	0.0007	0.0000	0.0000	0.82193	1.06150	78.084
MYA2T01	112	45.1609	2.2813	17.2533	-1.6356	-0.0063	-0.0006	0.0000	0.0000	0.82528	1.07168	79.084
D3026	113	8.3138	0.3770	103.5261	-4.5884	-0.0147	-0.0006	0.0000	0.0000	0.95215	1.12486	92.945
IPM2E03	114	8.3138	0.3770	103.5261	-4.5884	-0.0147	-0.0006	0.0000	0.0000	0.95215	1.12486	92.945
D3002	115	8.1002	0.3358	106.2950	-4.6522	-0.0149	-0.0006	0.0000	0.0000	0.95796	1.12532	93.245
MQB2E03	116	8.1244	-0.4978	106.0853	6.0430	-0.0152	-0.0039	0.0000	0.0000	0.96091	1.12554	93.395
D3003	117	8.4024	-0.5390	102.8699	5.9482	-0.0163	-0.0039	0.0000	0.0000	0.96608	1.12595	93.663
MBT2E03H	118	8.4024	-0.5390	102.8699	5.9482	-0.0163	-0.0039	0.0000	0.0000	0.96608	1.12595	93.663
D3004	119	8.6197	-0.5691	100.5507	5.8788	-0.0171	-0.0039	0.0000	0.0000	0.96974	1.12626	93.859
MBT2E03V	120	8.6197	-0.5691	100.5507	5.8788	-0.0171	-0.0039	0.0000	0.0000	0.96974	1.12626	93.859
D3027	121	23.9022	-1.6343	36.0149	3.4259	-0.0444	-0.0039	0.0000	0.0000	1.05001	1.14464	100.795
MYB2T02	122	27.2904	-1.7880	29.5217	3.1059	-0.0652	-0.0378	0.0000	0.0000	1.05624	1.14953	101.795
D3028	123	65.5981	-3.0147	2.9187	0.2294	-0.3664	-0.0378	0.0000	0.0000	1.08643	1.31407	109.771
IPM2T00A	124	65.5981	-3.0147	2.9187	0.2294	-0.3664	-0.0378	0.0000	0.0000	1.08643	1.31407	109.771
D3029	125	67.2947	-3.0577	2.8187	0.1286	-0.3769	-0.0378	0.0000	0.0000	1.08710	1.32960	110.050
MBP2T03	126	80.1299	-3.3651	3.7334	-0.5846	-0.3782	0.0364	0.0000	0.0000	1.09143	1.43536	112.051
D3030	127	152.9023	-4.7451	43.1597	-3.8093	-0.0512	0.0364	0.0000	0.0000	1.10434	1.56031	121.024
IPM2T00B	128	152.9023	-4.7451	43.1597	-3.8093	-0.0512	0.0364	0.0000	0.0000	1.10434	1.56031	121.024
D3031	129	155.6042	-4.7886	45.3477	-3.9112	-0.0408	0.0364	0.0000	0.0000	1.10464	1.56133	121.307
MBQ2T04	130	165.5										

D3035	151	65.1644	1.0422	76.1383	3.3975	-0.0187	-0.0002	0.0000	0.0000	1.12619	1.58266	133.108
MQB2T04	152	64.8525	1.0374	75.1228	3.3728	-0.0188	-0.0002	0.0000	0.0000	1.12656	1.58297	133.258
D3003	153	64.2984	1.0288	73.3258	3.3286	-0.0188	-0.0002	0.0000	0.0000	1.12722	1.58355	133.526
MBC2T04H	154	64.2984	1.0288	73.3258	3.3286	-0.0188	-0.0002	0.0000	0.0000	1.12722	1.58355	133.526
D3004	155	63.8962	1.0226	72.0267	3.2963	-0.0189	-0.0002	0.0000	0.0000	1.12771	1.58398	133.722
MBC2T04V	156	63.8962	1.0226	72.0267	3.2963	-0.0189	-0.0002	0.0000	0.0000	1.12771	1.58398	133.722
D3035	157	57.3389	0.9142	51.5942	2.7385	-0.0195	-0.0002	0.0000	0.0000	1.13662	1.59282	137.108
MQB2T05	158	58.0116	-5.4234	49.9405	8.2256	-0.0197	-0.0023	0.0000	0.0000	1.13703	1.59329	137.258
D3036	159	63.1601	-5.6668	42.5995	7.5873	-0.0207	-0.0023	0.0000	0.0000	1.13825	1.59489	137.722
MBC2T05V	160	63.1601	-5.6668	42.5995	7.5873	-0.0207	-0.0023	0.0000	0.0000	1.13825	1.59489	137.722
D3037	161	76.0881	-6.2362	27.7399	6.0941	-0.0233	-0.0023	0.0000	0.0000	1.14075	1.59992	138.808
IPM2T06	162	76.0881	-6.2362	27.7399	6.0941	-0.0233	-0.0023	0.0000	0.0000	1.14075	1.59992	138.808
D3002	163	79.8726	-6.3933	24.2112	5.6821	-0.0240	-0.0023	0.0000	0.0000	1.14136	1.60176	139.108
MQB2T06	164	80.4680	2.4459	22.9213	2.9645	-0.0241	0.0003	0.0000	0.0000	1.14165	1.60278	139.258
D3003	165	79.1625	2.4226	21.3621	2.8500	-0.0240	0.0003	0.0000	0.0000	1.14219	1.60471	139.526
MBC2T06H	166	79.1625	2.4226	21.3621	2.8500	-0.0240	0.0003	0.0000	0.0000	1.14219	1.60471	139.526
D3038	167	63.3990	2.1216	6.7282	1.3687	-0.0229	0.0003	0.0000	0.0000	1.14999	1.65143	142.995
MAL2T01	168	57.0819	4.0852	4.4695	0.9046	-0.0222	0.0011	-0.0828	-0.1662	1.15263	1.68055	143.996
D3011	169	35.0976	3.1427	2.7303	-0.3328	-0.0187	0.0011	-0.5882	-0.1662	1.16345	1.84872	147.037
MAL2T03	170	28.2668	3.5891	3.7977	-0.7382	-0.0174	0.0016	-0.6712	-0.0002	1.16851	1.89880	148.038
D3039	171	25.6610	3.4062	4.4041	-0.8898	-0.0168	0.0016	-0.6713	-0.0002	1.17072	1.91331	148.411
IPM2T07	172	25.6610	3.4062	4.4041	-0.8898	-0.0168	0.0016	-0.6713	-0.0002	1.17072	1.91331	148.411
D3007	173	24.1554	3.2959	4.8244	-0.9812	-0.0164	0.0016	-0.6713	-0.0002	1.17215	1.92107	148.636
MQC2T07	174	25.3038	-7.2872	4.8024	1.0513	-0.0170	-0.0055	-0.6285	0.2824	1.17412	1.93079	148.936
D3008	175	28.1987	-7.7002	4.4127	0.9666	-0.0180	-0.0055	-0.5740	0.2824	1.17528	1.93747	149.129
MBC2T07H	176	28.1987	-7.7002	4.4127	0.9666	-0.0180	-0.0055	-0.5740	0.2824	1.17528	1.93747	149.129
D3004	177	31.3008	-8.1195	4.0504	0.8807	-0.0191	-0.0055	-0.5186	0.2824	1.17633	1.94485	149.325
MBC2T07V	178	31.3008	-8.1195	4.0504	0.8807	-0.0191	-0.0055	-0.5186	0.2824	1.17633	1.94485	149.325
D3009	179	59.2555	-11.2115	2.4201	0.2467	-0.0271	-0.0055	-0.1101	0.2824	1.18167	2.02127	150.771
IPM2T08	180	59.2555	-11.2115	2.4201	0.2467	-0.0271	-0.0055	-0.1101	0.2824	1.18167	2.02127	150.771
D3007	181	64.4008	-11.6919	2.3313	0.1483	-0.0283	-0.0055	-0.0467	0.2824	1.18225	2.03634	150.996
MQC2T08	182	65.6988	7.4927	2.4888	-0.6885	-0.0287	0.0029	0.0372	0.2811	1.18297	2.05651	151.296
D3008	183	62.8368	7.3247	2.7769	-0.8029	-0.0281	0.0029	0.0915	0.2811	1.18345	2.06821	151.489
MBC2T08H	184	62.8368	7.3247	2.7769	-0.8029	-0.0281	0.0029	0.0915	0.2811	1.18345	2.06821	151.489
D3004	185	59.9976	7.1542	3.1145	-0.9190	-0.0275	0.0029	0.1466	0.2811	1.18396	2.07883	151.685
MBC2T08V	186	59.9976	7.1542	3.1145	-0.9190	-0.0275	0.0029	0.1466	0.2811	1.18396	2.07883	151.685
D3040	187	18.1380	3.8439	18.6898	-3.1732	-0.0164	0.0029	1.2163	0.2811	1.20236	2.16196	155.491
IPM2T09	188	18.1380	3.8439	18.6898	-3.1732	-0.0164	0.0029	1.2163	0.2811	1.20236	2.16196	155.491
D3007	189	16.4548	3.6485	20.1455	-3.3062	-0.0158	0.0029	1.2795	0.2811	1.20443	2.16380	155.716
MQC2T09	190	15.2633	0.4025	20.9195	0.7778	-0.0154	-0.0002	1.3248	0.0196	1.20748	2.16610	156.016
D3008	191	15.1106	0.3878	20.6219	0.7630	-0.0154	-0.0002	1.3286	0.0196	1.20950	2.16758	156.209
MBC2T09H	192	15.1106	0.3878	20.6219	0.7630	-0.0154	-0.0002	1.3286	0.0196	1.20950	2.16758	156.209
D3004	193	14.9615	0.3729	20.3256	0.7479	-0.0154	-0.0002	1.3324	0.0196	1.21158	2.16911	156.405
MBC2T09V	194	14.9615	0.3729	20.3256	0.7479	-0.0154	-0.0002	1.3324	0.0196	1.21158	2.16911	156.405
D3041	195	14.5195	0.3246	19.4086	0.6993	-0.0155	-0.0002	1.3448	0.0196	1.21842	2.17419	157.038
MAL2T04	196	13.6791	0.5045	17.7975	0.9103	-0.0156	0.0001	1.2595	-0.1907	1.22977	2.18269	158.040
D3042	197	10.9376	-0.0557	10.5100	0.2827	-0.0149	0.0001	0.0945	-0.1907	1.31299	2.25638	164.148
MAW2T06	198	10.4003	0.2001	10.4010	0.2001	-0.0143	0.0006	0.0000	0.0000	1.32803	2.27162	165.154
D3043	199	10.0600	0.0775	10.0607	0.0775	-0.0135	0.0006	0.0000	0.0000	1.34715	2.29074	166.380
IHA2C00	200	10.0600	0.0775	10.0607	0.0775	-0.0135	0.0006	0.0000	0.0000	1.34715	2.29074	166.380
D3044	201	10.0000	0.0001	10.0007	0.0001	-0.0131	0.0006	0.0000	0.0000	1.35944	2.30303	167.154

MAXIMUM LATTICE FUNCTIONS :
 BETA X = 0.1735663345E+03 BETA Y = 0.1396305999E+03
 ETA X = 0.5578966871E-05 ETA Y = 0.1352205387E+01

1
 OPERATION LIST ,

MATRIX

1 -1,

AFTER :D3044 ELEMENT #: 201

 * TRANSFORMATION MATRIX *

FIRST ORDER MATRIX

- 0.1167805E+01 0.1178248E+02 -0.1143284E-13 0.4448943E-13 0.0000000E+00 -0.1305657E-01
 - 0.1808049E+00 -0.9679101E+00 0.4374289E-15 -0.1689126E-14 0.0000000E+00 0.6011928E-03
 - 0.9932299E-15 -0.3597381E-14 -0.1829482E+01 0.7775342E+01 0.0000000E+00 0.2207361E-06
 - 0.8152288E-15 0.3103140E-14 -0.6527808E-01 -0.2691694E+00 0.0000000E+00 -0.3932881E-06
 - 0.1658616E-02 -0.5554044E-02 0.7339227E-06 -0.2998534E-05 0.1000000E+01 -0.7379101E+00
 - 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.1000000E+01

HORIZONTAL MOVEMENT ANALYSIS

COMPACTION FACTOR =-0.4414489E-02 GAMMA TR = -0.1505081E+02

COS(MU) = 0.99947279599710E-01 NU = 0.23406629274609E+00
 ETA =-0.10338624237868E-01 ETAP = 0.12553757342945E-02
 ALPHA = 0.10732312919641E+01 BETA = 0.11841774530236E+02

VERTICAL MOVEMENT ANALYSIS

MOVEMENT IS UNSTABLE

HALF-TRACE = -0.10493257454031E+01
 EIGENVALUE1 = -0.73138782698853E+00
 WITH EIGENVECTOR :
 Y = -0.99017410156763E+00 YP = -0.13984008218223E+00

EIGENVALUE2 = -0.13672636638177E+01
WITH EIGENVECTOR :
Y = -0.99823771455837E+00 YP = -0.59341934862949E-01

1

OPERATION LIST ,

HARDWARE

2.30211 900.172 -80.6 100 -91.5251 -180 0.0 0 1 0;

VALUES ARE FOR ENERGY : 0.230E+01 GEV

THE LENGTHS ARE MEASURED IN METERS ,THE ANGLES IN DEGREES

THE SKYZ COORDINATES ,AZIMUTH,ELEVATION AND ROLL ANGLES ARE :

#	NAME	S	X	Y	Z	THETA	PHI	PSI
1	MAW2S01	901.1779500000	-80.6000000000	100.0945377401	-92.5251023675	180.0000000000	10.8011000000	0.0000000000
2	D3000	907.2861600000	-80.6000000000	101.2392173515	-98.5250972001	180.0000000000	10.8011000000	0.0000000000
3	MAL2S03	908.2876400000	-80.6000000000	101.3333350074	-99.5206559962	180.0000000000	0.0000000000	0.0000000000
4	D3001	908.7329880000	-80.6000000000	101.3333350074	-99.9660039962	180.0000000000	0.0000000000	0.0000000000
5	IPM2S01	908.7329880000	-80.6000000000	101.3333350074	-99.9660039962	180.0000000000	0.0000000000	0.0000000000
6	D3002	909.0326380000	-80.6000000000	101.3333350074	-100.2656539962	180.0000000000	0.0000000000	0.0000000000
7	MQB2S01	909.1826380000	-80.6000000000	101.3333350074	-100.4156539962	180.0000000000	0.0000000000	0.0000000000
8	D3003	909.4507880000	-80.6000000000	101.3333350074	-100.6838039962	180.0000000000	0.0000000000	0.0000000000
9	MBT2S01H	909.4507880100	-80.6000000000	101.3333350074	-100.6838040062	180.0000000000	0.0000000000	0.0000000000
10	D3004	909.6468780100	-80.6000000000	101.3333350074	-100.8798940062	180.0000000000	0.0000000000	0.0000000000
11	MBT2S01V	909.6468780200	-80.6000000000	101.3333350074	-100.8798940162	180.0000000000	0.0000000000	0.0000000000
12	D3005	910.1523380200	-80.6000000000	101.3333350074	-101.3853540162	180.0000000000	0.0000000000	0.0000000000
13	ITV2S01	910.1523380200	-80.6000000000	101.3333350074	-101.3853540162	180.0000000000	0.0000000000	0.0000000000
14	D3006	913.4529880200	-80.6000000000	101.3333350074	-104.6860040162	180.0000000000	0.0000000000	0.0000000000
15	IPM2S02	913.4529880200	-80.6000000000	101.3333350074	-104.6860040162	180.0000000000	0.0000000000	0.0000000000
16	D3007	913.6776380200	-80.6000000000	101.3333350074	-104.9106540162	180.0000000000	0.0000000000	0.0000000000
17	MQC2S02	913.9776380200	-80.6000000000	101.3333350074	-105.2106540162	180.0000000000	0.0000000000	0.0000000000
18	D3008	914.1707880200	-80.6000000000	101.3333350074	-105.4038040162	180.0000000000	0.0000000000	0.0000000000
19	MBT2S02H	914.1707880300	-80.6000000000	101.3333350074	-105.4038040262	180.0000000000	0.0000000000	0.0000000000
20	D3004	914.3668780300	-80.6000000000	101.3333350074	-105.5998940262	180.0000000000	0.0000000000	0.0000000000
21	MBT2S02V	914.3668780400	-80.6000000000	101.3333350074	-105.5998940362	180.0000000000	0.0000000000	0.0000000000
22	D3009	915.8129880400	-80.6000000000	101.3333350074	-107.0460040362	180.0000000000	0.0000000000	0.0000000000
23	IPM2S03	915.8129880400	-80.6000000000	101.3333350074	-107.0460040362	180.0000000000	0.0000000000	0.0000000000
24	D3007	916.0376380400	-80.6000000000	101.3333350074	-107.2706540362	180.0000000000	0.0000000000	0.0000000000
25	MQC2S03	916.3376380400	-80.6000000000	101.3333350074	-107.5706540362	180.0000000000	0.0000000000	0.0000000000
26	D3008	916.5307880400	-80.6000000000	101.3333350074	-107.7638040362	180.0000000000	0.0000000000	0.0000000000
27	MBT2S03H	916.5307880500	-80.6000000000	101.3333350074	-107.7638040462	180.0000000000	0.0000000000	0.0000000000
28	D3004	916.7268780500	-80.6000000000	101.3333350074	-107.9598940462	180.0000000000	0.0000000000	0.0000000000
29	MBT2S03V	916.7268780600	-80.6000000000	101.3333350074	-107.9598940562	180.0000000000	0.0000000000	0.0000000000
30	D3010	917.2876380600	-80.6000000000	101.3333350074	-108.5206540562	180.0000000000	0.0000000000	0.0000000000
31	MAI2S04	918.2887780600	-80.6000000000	101.4160234667	-109.5172264035	180.0000000000	9.4862600000	0.0000000000
32	D3011	921.3303780600	-80.6000000000	101.9173128528	-112.5172329887	180.0000000000	9.4862600000	0.0000000000
33	MAI2S06	922.3315180600	-80.6000000000	102.0000013121	-113.5138053360	180.0000000000	0.0000000000	0.0000000000
34	D3012	924.4815180600	-80.6000000000	102.0000013121	-115.6638053360	180.0000000000	0.0000000000	0.0000000000
35	MQC2S04	924.7815180600	-80.6000000000	102.0000013121	-115.9638053360	180.0000000000	0.0000000000	0.0000000000
36	D3013	925.6762180600	-80.6000000000	102.0000013121	-116.8585053360	180.0000000000	0.0000000000	0.0000000000
37	ITV2S04	925.6762180600	-80.6000000000	102.0000013121	-116.8585053360	180.0000000000	0.0000000000	0.0000000000
38	D3014	925.8568680600	-80.6000000000	102.0000013121	-117.0391553360	180.0000000000	0.0000000000	0.0000000000
39	IPM2S05	925.8568680600	-80.6000000000	102.0000013121	-117.0391553360	180.0000000000	0.0000000000	0.0000000000
40	D3007	926.0815180600	-80.6000000000	102.0000013121	-117.2638053360	180.0000000000	0.0000000000	0.0000000000
41	MQC2S05	926.3815180600	-80.6000000000	102.0000013121	-117.5638053360	180.0000000000	0.0000000000	0.0000000000
42	D3008	926.5746680600	-80.6000000000	102.0000013121	-117.7569553360	180.0000000000	0.0000000000	0.0000000000
43	MBT2S05H	926.5746680700	-80.6000000000	102.0000013121	-117.7569553460	180.0000000000	0.0000000000	0.0000000000
44	D3004	926.7707580700	-80.6000000000	102.0000013121	-117.9530453660	180.0000000000	0.0000000000	0.0000000000
45	MBT2S05V	926.7707580800	-80.6000000000	102.0000013121	-117.9530453560	180.0000000000	0.0000000000	0.0000000000
46	D3015	927.6815180800	-80.6000000000	102.0000013121	-118.8638053560	180.0000000000	0.0000000000	0.0000000000
47	MQC2S06	927.9815180800	-80.6000000000	102.0000013121	-119.1638053560	180.0000000000	0.0000000000	0.0000000000
48	D3016	928.3707580800	-80.6000000000	102.0000013121	-119.5530453560	180.0000000000	0.0000000000	0.0000000000
49	MBT2S06V	928.3707580900	-80.6000000000	102.0000013121	-119.5530453660	180.0000000000	0.0000000000	0.0000000000
50	D3017	933.8568680900	-80.6000000000	102.0000013121	-125.0391553660	180.0000000000	0.0000000000	0.0000000000
51	IPM2S07	933.8568680900	-80.6000000000	102.0000013121	-125.0391553660	180.0000000000	0.0000000000	0.0000000000
52	D3007	934.0815180900	-80.6000000000	102.0000013121	-125.2638053660	180.0000000000	0.0000000000	0.0000000000
53	MQC2S07	934.3815180900	-80.6000000000	102.0000013121	-125.5638053660	180.0000000000	0.0000000000	0.0000000000
54	D3008	934.5746680900	-80.6000000000	102.0000013121	-125.7569553660	180.0000000000	0.0000000000	0.0000000000
55	MBT2S07H	934.5746681000	-80.6000000000	102.0000013121	-125.7569553760	180.0000000000	0.0000000000	0.0000000000
56	D3004	934.7707581000	-80.6000000000	102.0000013121	-125.9530453760	180.0000000000	0.0000000000	0.0000000000
57	MBT2S07V	934.7707581100	-80.6000000000	102.0000013121	-125.9530453860	180.0000000000	0.0000000000	0.0000000000
58	D3018	937.0568681100	-80.6000000000	102.0000013121	-128.2391553860	180.0000000000	0.0000000000	0.0000000000
59	IPM2S08	937.0568681100	-80.6000000000	102.0000013121	-128.2391553860	180.0000000000	0.0000000000	0.0000000000
60	D3007	937.2815181100	-80.6000000000	102.0000013121	-128.4638053860	180.0000000000	0.0000000000	0.0000000000
61	MQC2S08	937.5815181100	-80.6000000000	102.0000013121	-128.7638053860	180.0000000000	0.0000000000	0.0000000000
62	D3008	937.7746681100	-80.6000000000	102.0000013121	-128.9569553860	180.0000000000	0.0000000000	0.0000000000
63	MBT2S08H	937.7746681200	-80.6000000000	102.0000013121	-128.9569553960	180.0000000000	0.0000000000	0.0000000000
64	D3004	937.9707581200	-80.6000000000	102.0000013121	-129.1530453960	180.0000000000	0.0000000000	0.0000000000
65	MBT2S08V	937.9707581300	-80.6000000000	102.0000013121	-129.1530454060	180.0000000000	0.0000000000	0.0000000000
66	D3018	940.2568681300	-80.6000000000	102.0000013121	-131.4391554060	180.0000000000	0.0000000000	0.0000000000
67	IPM2S09	940.2568681300	-80.6000000000	102.0000013121	-131.4391554060	180.0000000000	0.0000000000	0.0000000000
68	D3007	940.4815181300	-80.6000000000	102.0000013121	-131.6638054060	180.0000000000	0.0000000000	0.0000000000
69	MQC2S09	940.7815181300	-80.6000000000	102.0000013121	-131.9638054060	180.0000000000	0.0000000000	0.0000000000
70	D3008	940.9746681300	-80.6000000000	102.0000013121	-132.1569554060	180.0000000000	0.0000000000	0.0000000000
71	MBT2S09H	940.9746681400	-80.6000000000	102.0000013121	-132.1569554160	180.0000000000	0.0000000000	0.0000000000
72	D3004	941.1707581400	-80.6000000000	102.0000013121	-132.3530454160	180.0000000000	0.0000000000	0.0000000000
73	MBT2S09V	941.1707581500	-80.6000000000	102.0000013121	-132.3530454260	180.0000000000	0.0000000000	0.0000000000
74	D3018	943.4568681500	-80.6000000000	102.0000013121	-134.6391554260	180.0000000000	0.0000000000	0.0000000000
75	IPM2S10	943.4568681500	-80.6000000000	102.0000013121	-134.6391554260	180.0000000000	0.0000000000	0.0000000000
76	D3007	943.6815181500	-80.6000000000	102.0000013121	-134.8638054260	180.0000000000	0.0000000000	0.0000000000
77	MQC2S10	943.9815181500	-80.6000000000	102.0000013121	-135.1638054260	180.0000000000	0.0000000000	0.0000000000
78	D3008	944.1746681500	-80.6000000000	102.0000013121	-135.3569554260	180.0000000000	0.0000000000	0.0000000000
79	MBT2S10H							

83	RRF2T01L	945.4698881700	-80.6000087500	102.0000013121	-136.6521754459	-179.9971352100	0.0000000000	0.0000000000
84	RRRF2T01	945.4698881800	-80.6000087500	102.0000013121	-136.6521754459	-179.9971352100	0.0000000000	0.0000000000
85	RRF2T01R	945.8198881800	-80.6000350000	102.0000013121	-137.0021754459	-179.9942704200	0.0000000000	0.0000000000
86	D3020	960.0068881800	-80.6014537005	102.0000013121	-151.1891753839	-179.9942704200	0.0000000000	0.0000000000
87	IPM2E01	960.0068881800	-80.6014537005	102.0000013121	-151.1891753839	-179.9942704200	0.0000000000	0.0000000000
88	D3002	960.3065381800	-80.6014836655	102.0000013121	-151.4888253824	-179.9942704200	0.0000000000	0.0000000000
89	MQB2E01	960.4565381800	-80.6015082717	102.0000013121	-151.6388253803	-179.9869318700	0.0000000000	0.0000000000
90	D3003	960.7246881800	-80.6015694318	102.0000013121	-151.9069753733	-179.9869318700	0.0000000000	0.0000000000
91	MBC2E01H	960.7246881900	-80.6015694318	102.0000013121	-151.9069753833	-179.9869318700	0.0000000000	0.0000000000
92	D3004	960.9207781900	-80.6016141564	102.0000013121	-152.1030653782	-179.9869318700	0.0000000000	0.0000000000
93	MBC2E01V	960.9207782000	-80.6016141564	102.0000013121	-152.1030653882	-179.9869318700	0.0000000000	0.0000000000
94	D3005	961.4262382000	-80.6017294427	102.0000013121	-152.6085253751	-179.9869318700	0.0000000000	0.0000000000
95	D3021	961.9065382000	-80.6018389904	102.0000013121	-153.0888253626	-179.9869318700	0.0000000000	0.0000000000
96	MWB2E01	962.4066752000	-80.6120871472	102.0000013121	-153.5888231157	-177.6646818700	0.0000000000	0.0000000000
97	D3022	968.1614552000	-80.8465812303	102.0000013121	-159.3388235829	-177.6646818700	0.0000000000	0.0000000000
98	MBX2E02	969.1617252000	-80.8468093986	102.0000013121	-160.3388197142	177.6908281300	0.0000000000	0.0000000000
99	D3023	974.9164052000	-80.6149433146	102.0000013121	-166.0888266726	177.6908281300	0.0000000000	0.0000000000
100	MWB2E03	975.4165422000	-80.6049233270	102.0000013121	-166.5888290503	-179.9869218700	0.0000000000	0.0000000000
101	D3024	976.5668922000	-80.6051859018	102.0000013121	-167.7391790203	-179.9869218700	0.0000000000	0.0000000000
102	IPM2E02	976.5668922000	-80.6051859018	102.0000013121	-167.7391790203	-179.9869218700	0.0000000000	0.0000000000
103	D3002	976.8665422000	-80.6052542988	102.0000013121	-168.0388290125	-179.9869218700	0.0000000000	0.0000000000
104	MQB2E02	977.0165422000	-80.6052547151	102.0000013121	-168.1888290113	179.9872399300	0.0000000000	0.0000000000
105	D3003	977.2846922000	-80.6051949967	102.0000013121	-168.4569790046	179.9872399300	0.0000000000	0.0000000000
106	MBC2E02H	977.2846922100	-80.6051949967	102.0000013121	-168.4569790146	179.9872399300	0.0000000000	0.0000000000
107	D3004	977.4807822100	-80.6051513265	102.0000013121	-168.6530690097	179.9872399300	0.0000000000	0.0000000000
108	MBC2E02V	977.4807822200	-80.6051513265	102.0000013121	-168.6530690197	179.9872399300	0.0000000000	0.0000000000
109	D3005	977.9862422200	-80.6050387579	102.0000013121	-169.1585290072	179.9872399300	0.0000000000	0.0000000000
110	ITV2E02	977.9862422200	-80.6050387579	102.0000013121	-169.1585290072	179.9872399300	0.0000000000	0.0000000000
111	D3025	978.2555222000	-80.6049787811	102.0000013121	-169.4278390005	179.9872399300	0.0000000000	0.0000000000
112	MYA2T01	979.2555222000	-80.6054210751	102.0000013121	-170.4278388920	-179.9365567700	0.0000000000	0.0000000000
113	D3026	993.1168522200	-80.6207695959	102.0000013121	-184.2891303314	-179.9365567700	0.0000000000	0.0000000000
114	IPM2E03	993.1168522200	-80.6207695959	102.0000013121	-184.2891303314	-179.9365567700	0.0000000000	0.0000000000
115	D3002	993.4165022200	-80.6211013962	102.0000013121	-184.5887801477	-179.9365567700	0.0000000000	0.0000000000
116	MQB2E03	993.5665022200	-80.6214039503	102.0000013121	-184.7387798218	-179.8323087700	0.0000000000	0.0000000000
117	D3003	993.8346522200	-80.6221887610	102.0000013121	-185.0069286734	-179.8323087700	0.0000000000	0.0000000000
118	MBC2E03H	993.8346522300	-80.6221887610	102.0000013121	-185.0069286834	-179.8323087700	0.0000000000	0.0000000000
119	D3004	994.0307422300	-80.6227626694	102.0000013121	-185.2030178435	-179.8323087700	0.0000000000	0.0000000000
120	MBC2E03V	994.0307422400	-80.6227626694	102.0000013121	-185.2030178535	-179.8323087700	0.0000000000	0.0000000000
121	D3027	1000.9665522400	-80.6430621200	102.0000013121	-192.1387981476	-179.8323087700	0.0000000000	0.0000000000
122	MYB2T02	1001.9667922400	-80.6628902882	102.0000013121	-193.1387939819	-177.8958387700	0.0000000000	0.0000000000
123	D3028	1009.9430022400	-80.9557471037	102.0000013121	-201.1096258613	-177.8958387700	0.0000000000	0.0000000000
124	IPM2T00A	1009.9430022400	-80.9557471037	102.0000013121	-201.1096258613	-177.8958387700	0.0000000000	0.0000000000
125	D3029	1010.2244022400	-80.9660056343	102.0000013121	-201.3888374702	-177.8958387700	0.0000000000	0.0000000000
126	MBP2T03	1012.2228622400	-80.9652824122	102.0000013121	-203.3888388046	177.8544012300	0.0000000000	0.0000000000
127	D3030	1021.1959022400	-80.6293406672	102.0000013121	-212.3555879360	177.8544012300	0.0000000000	0.0000000000
128	IPM2T00B	1021.1959022400	-80.6293406672	102.0000013121	-212.3555879360	177.8544012300	0.0000000000	0.0000000000
129	D3031	1021.4793022400	-80.6187304515	102.0000013121	-212.6387892484	177.8544012300	0.0000000000	0.0000000000
130	MBQ2T04	1022.4793322400	-80.6000040550	102.0000013121	-213.6387854897	-179.9999887700	0.0000000000	0.0000000000
131	D3032	1022.9798782400	-80.6000046481	102.0000013121	-214.1391314897	-179.9999887700	0.0000000000	0.0000000000
132	IPM2T01	1022.9798782400	-80.6000046481	102.0000013121	-214.1391314897	-179.9999887700	0.0000000000	0.0000000000
133	D3002	1023.2795282400	-80.6000047068	102.0000013121	-214.4387814897	-179.9999887700	0.0000000000	0.0000000000
134	MQB2T01	1023.4295282400	-80.6000047362	102.0000013121	-214.5887814897	-179.9999887700	0.0000000000	0.0000000000
135	D3003	1023.6976782400	-80.6000047888	102.0000013121	-214.8569314897	-179.9999887700	0.0000000000	0.0000000000
136	MBC2T01H	1023.6976782500	-80.6000047888	102.0000013121	-214.8569314997	-179.9999887700	0.0000000000	0.0000000000
137	D3004	1023.8937682500	-80.6000048272	102.0000013121	-215.0530214997	-179.9999887700	0.0000000000	0.0000000000
138	MBC2T01V	1023.8937682600	-80.6000048272	102.0000013121	-215.0530215097	-179.9999887700	0.0000000000	0.0000000000
139	D3033	1025.2795282600	-80.6000050988	102.0000013121	-216.4387815097	-179.9999887700	0.0000000000	0.0000000000
140	MQB2T02	1025.4295282600	-80.6000051282	102.0000013121	-216.5887815097	-179.9999887700	0.0000000000	0.0000000000
141	D3003	1025.6976782600	-80.6000051808	102.0000013121	-216.8569315097	-179.9999887700	0.0000000000	0.0000000000
142	MBC2T02H	1025.6976782700	-80.6000051808	102.0000013121	-216.8569315197	-179.9999887700	0.0000000000	0.0000000000
143	D3034	1028.9798782700	-80.6000058241	102.0000013121	-220.1391315197	-179.9999887700	0.0000000000	0.0000000000
144	IPM2T03	1028.9798782700	-80.6000058241	102.0000013121	-220.1391315197	-179.9999887700	0.0000000000	0.0000000000
145	D3002	1029.2795282700	-80.6000058828	102.0000013121	-220.4387815197	-179.9999887700	0.0000000000	0.0000000000
146	MQB2T03	1029.4295282700	-80.6000059122	102.0000013121	-220.5887815197	-179.9999887700	0.0000000000	0.0000000000
147	D3003	1029.6976782700	-80.6000059648	102.0000013121	-220.8569315197	-179.9999887700	0.0000000000	0.0000000000
148	MBC2T03H	1029.6976782800	-80.6000059648	102.0000013121	-220.8569315297	-179.9999887700	0.0000000000	0.0000000000
149	D3004	1029.8937682800	-80.6000060032	102.0000013121	-221.0530215297	-179.9999887700	0.0000000000	0.0000000000
150	MBC2T03V	1029.8937682900	-80.6000060032	102.0000013121	-221.0530215397	-179.9999887700	0.0000000000	0.0000000000
151	D3035	1033.2795282900	-80.6000066668	102.0000013121	-224.4387815397	-179.9999887700	0.0000000000	0.0000000000
152	MQB2T04	1033.4295282900	-80.6000066962	102.0000013121	-224.5887815397	-179.9999887700	0.0000000000	0.0000000000
153	D3003	1033.6976782900	-80.6000067488	102.0000013121	-224.8569315397	-179.9999887700	0.0000000000	0.0000000000
154	MBC2T04H	1033.6976783000	-80.6000067488	102.0000013121	-224.8569315497	-179.9999887700	0.0000000000	0.0000000000
155	D3004	1033.8937683000	-80.6000067872	102.0000013121	-225.0530215497	-179.9999887700	0.0000000000	0.0000000000
156	MBC2T04V	1033.8937683100	-80.6000067872	102.0000013121	-225.0530215597	-179.9999887700	0.0000000000	0.0000000000
157	D3035	1037.2795283100	-80.6000074508	102.0000013121	-228.4387815597	-179.9999887700	0.0000000000	0.0000000000
158	MQB2T05	1037.4295283100	-80.6000074802	102.0000013121	-228.5887815597	-179.9999887700	0.0000000000	0.0000000000
159	D3036	1037.8937683100	-80.6000075712	102.0000013121	-229.0530215597	-179.9999887700	0.0000000000	0.0000000000
160	MBC2T05V	1037.8937683200	-80.6000075712	102.0000013121	-229.0530215697	-179.9999887700	0.0000000000	0.0000000000
161	D3037	1038.9798783200	-80.6000077841	102.0000013121	-230.1391315697	-179.9999887700	0.0000000000	0.0000000000
162	IPM2T06	1038.9798783200	-80.6000077841	102.0000013121	-230.1391315697	-179.9999887700	0.0000000000	0.0000000000
163	D3002	1039.2795283200	-80.6000078428	102.0000013121	-230.4387815697	-179.9999887700	0.0000000000	0.0000000000
164	MQB2T06	1039						

187	D3040	1055.6629253700	-80.6000110440	101.3333350074	-246.7714498995	-179.9999887700	0.0000000000	0.0000000000
188	IPM2T09	1055.6629253700	-80.6000110440	101.3333350074	-246.7714498995	-179.9999887700	0.0000000000	0.0000000000
189	D3007	1055.8875753700	-80.6000110881	101.3333350074	-246.9960998995	-179.9999887700	0.0000000000	0.0000000000
190	MQC2T09	1056.1875753700	-80.6000111469	101.3333350074	-247.2960998995	-179.9999887700	0.0000000000	0.0000000000
191	D3008	1056.3807253700	-80.6000111847	101.3333350074	-247.4892498995	-179.9999887700	0.0000000000	0.0000000000
192	MBC2T09H	1056.3807253800	-80.6000111847	101.3333350074	-247.4892499095	-179.9999887700	0.0000000000	0.0000000000
193	D3004	1056.5768153800	-80.6000112232	101.3333350074	-247.6853399095	-179.9999887700	0.0000000000	0.0000000000
194	MBC2T09V	1056.5768153900	-80.6000112232	101.3333350074	-247.6853399195	-179.9999887700	0.0000000000	0.0000000000
195	D3041	1057.2104253900	-80.6000113473	101.3333350074	-248.3189499195	-179.9999887700	0.0000000000	0.0000000000
196	MAL2T04	1058.2119053900	-80.6000115425	101.2392173515	-249.3145087157	-179.9999887700	-10.8011000000	0.0000000000
197	D3042	1064.3201253900	-80.6000127185	100.0945358661	-255.3145133711	-179.9999887700	-10.8011000000	0.0000000000
198	MW2T06	1065.3260753900	-80.6000129145	99.9999981260	-256.3145157386	-179.9999887700	0.0000000000	0.0000000000
199	D3043	1066.5522953900	-80.6000131548	99.9999981260	-257.5407357386	-179.9999887700	0.0000000000	0.0000000000
200	IHA2C00	1066.5522953900	-80.6000131548	99.9999981260	-257.5407357386	-179.9999887700	0.0000000000	0.0000000000
201	D3044	1067.3260953900	-80.6000133065	99.9999981260	-258.3145357386	-179.9999887700	0.0000000000	0.0000000000

1
STOP

bsy4p.outd

LDIMAT VERSION 2.9 PROD
ODATE AND TIME OF THIS RUN: 12-JUN-2007 12:59:52

XSIF Parser Version 2.1
Version Date: 01-JAN-2004
Run: 12-JUN-2007 12:59:52
XSIF Parser developed by NLC Department,
Stanford Linear Accelerator Center.

UTRANSPORT

TITLE
CONVERTED FROM ../.././OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//BSY4P.OPT

- 5
MAW4S01: SBEND, L=1.00155, ANGLE=-5.52402, K1=-0.352337, &
E1=-0, E2=-5.52402, HGAP=0.0190844, &
HGAPX=0.0190844, &
FINT=0.5, TILT=90
- 10
D3000: DRIFT, L=2.00933
MAX4S02: SBEND, L=1.00963, ANGLE=-4.5727, K1=0.783777, &
E1=5.52402, E2=-10.0967, HGAP=0.0234865, &
HGAPX=0.0240375, &
FINT=0.5, TILT=90
- 15
D3001: DRIFT, L=2.53933
MAV4S03: SBEND, L=2.00259, ANGLE=10.0967, K1=-0.843286, &
E1=5.04837, E2=5.04837, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=90
- 20
D3002: DRIFT, L=0.38035
IPM4S01: MONITOR, L=0
D3003: DRIFT, L=0.22465
MQA4S01: QUADRUPOLE, L=0.3, K1=-0.715079, TILT=0
D3004: DRIFT, L=0.19315
- 25
MBC4S01H: GKICK, L=1E-08, DXP=0, DYP=0
D3005: DRIFT, L=0.19609
MBC4S01V: GKICK, L=1E-08, DXP=0, DYP=0
D3006: DRIFT, L=0.50546
ITV4S01: MONITOR, L=0
- 30
D3007: DRIFT, L=3.08065
IPM4S02: MONITOR, L=0
MQA4S02: QUADRUPOLE, L=0.3, K1=1.20859, TILT=0
MBC4S02H: GKICK, L=1E-08, DXP=0, DYP=0
MBC4S02V: GKICK, L=1E-08, DXP=0, DYP=0
- 35
D3008: DRIFT, L=1.33611
IPM4S03: MONITOR, L=0
MQA4S03: QUADRUPOLE, L=0.3, K1=-1.49683, TILT=0
MBC4S03H: GKICK, L=1E-08, DXP=0, DYP=0
MBC4S03V: GKICK, L=1E-08, DXP=0, DYP=0
- 40
D3009: DRIFT, L=0.50576
MAF4S04: SBEND, L=1.00029, ANGLE=-4.76569, K1=-0.944389, &
E1=-2.38285, E2=-2.38285, HGAP=0.0127941, &
HGAPX=0.0127941, &
FINT=0.5, TILT=90
- 45
D3010: DRIFT, L=5.01734
MAF4S06: SBEND, L=1.00029, ANGLE=4.76569, K1=-1.41658, &
E1=2.38285, E2=2.38285, HGAP=0.0127941, &
HGAPX=0.0127941, &
FINT=0.5, TILT=90
- 50
D3011: DRIFT, L=1.6982
MQA4S04: QUADRUPOLE, L=0.3, K1=-0.717121, TILT=0
D3012: DRIFT, L=0.8947
ITV4S04: MONITOR, L=0
D3013: DRIFT, L=0.18065
- 55
IPM4S05: MONITOR, L=0
MQA4S05: QUADRUPOLE, L=0.3, K1=1.25287, TILT=0
MBC4S05H: GKICK, L=1E-08, DXP=0, DYP=0
MBC4S05V: GKICK, L=1E-08, DXP=0, DYP=0
D3014: DRIFT, L=0.91076
- 60
MQA4S06: QUADRUPOLE, L=0.3, K1=-0.637855, TILT=0
D3015: DRIFT, L=4.27535
IPM4S07: MONITOR, L=0
MQA4S07: QUADRUPOLE, L=0.3, K1=0, TILT=0
MBC4S07H: GKICK, L=1E-08, DXP=0, DYP=0
- 65
MBC4S07V: GKICK, L=1E-08, DXP=0, DYP=0
D3016: DRIFT, L=2.28611
IPM4S08: MONITOR, L=0
MQA4S08: QUADRUPOLE, L=0.3, K1=-0.174155, TILT=0
MBC4S08H: GKICK, L=1E-08, DXP=0, DYP=0

70 MBC4S08V: GKICK, L=1E-08, DXP=0, DYP=0
IPM4S09: MONITOR, L=0
MQA4S09: QUADRUPOLE, L=0.3, K1=0, TILT=0
MBC4S09H: GKICK, L=1E-08, DXP=0, DYP=0
MBC4S09V: GKICK, L=1E-08, DXP=0, DYP=0
75 IPM4S10: MONITOR, L=0
MQA4S10: QUADRUPOLE, L=0.3, K1=0.294748, TILT=0
MBC4S10H: GKICK, L=1E-08, DXP=0, DYP=0
MBC4S10V: GKICK, L=1E-08, DXP=0, DYP=0
D3017: DRIFT, L=0.74913
80 RRF4T01: SBEND, L=0.7, ANGLE=-0.00433192, K1=-0, &
E1=-0, E2=-0, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
RRRF4T01: GKICK, L=1E-08, DXP=-5.50456E-07, DYP=-0
85 D3025A: DRIFT, L=1.1034
D3018A: DRIFT, L=12.3836
IPM4E01: MONITOR, L=0
D3019: DRIFT, L=0.29965
MQB4E01: SBEND, L=0.15, ANGLE=-0.00888814, K1=430915, &
E1=0.00572958, E2=-0.0130681, HGAP=0, &
90 HGAPX=0, &
FINT=0.5, TILT=0
D3020: DRIFT, L=0.26815
MBM4E01H: GKICK, L=1E-08, DXP=0, DYP=0
95 MBM4E01V: GKICK, L=1E-08, DXP=0, DYP=0
D3021: DRIFT, L=0.4803
MBW4E01: SBEND, L=0.500137, ANGLE=-2.32225, K1=-0, &
E1=-0, E2=-2.32225, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
100 D3022: DRIFT, L=5.75473
MBX4E02: SBEND, L=1.00027, ANGLE=4.64449, K1=-0, &
E1=2.32225, E2=2.32225, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
105 MBW4E03: SBEND, L=0.500137, ANGLE=-2.32225, K1=-0, &
E1=-2.32225, E2=-0, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
110 D3023: DRIFT, L=1.15034
IPM4E02: MONITOR, L=0
MQB4E02: SBEND, L=0.15, ANGLE=0.0369765, K1=-31847, &
E1=0.0130681, E2=0.0127366, HGAP=0, &
HGAPX=0, &
115 FINT=0.5, TILT=0
MBM4E02H: GKICK, L=1E-08, DXP=0, DYP=0
MBM4E02V: GKICK, L=1E-08, DXP=0, DYP=0
ITV4E02: MONITOR, L=0
D3024: DRIFT, L=0.26931
120 MYA4T01: SBEND, L=1, ANGLE=-0.0735418, K1=-0, &
E1=-0.0127366, E2=-0.0634668, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
125 D3025: DRIFT, L=13.8613
IPM4E03: MONITOR, L=0
MQB4E03: SBEND, L=0.15, ANGLE=-0.118211, K1=3511.64, &
E1=0.0634665, E2=-0.167729, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
130 MBM4E03H: GKICK, L=1E-08, DXP=0, DYP=0
MBM4E03V: GKICK, L=1E-08, DXP=0, DYP=0
D3026: DRIFT, L=6.9358
MYB4T02: SBEND, L=1.00024, ANGLE=-1.93168, K1=-0, &
E1=0.167729, E2=-2.10408, HGAP=0, &
135 HGAPX=0, &
FINT=0.5, TILT=0
D3027: DRIFT, L=7.97622
IPM4T00A: MONITOR, L=0
D3028: DRIFT, L=0.2794
140 MBP4T03: SBEND, L=2.00046, ANGLE=4.24955, K1=-0, &
E1=2.11731, E2=2.13234, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
D3029: DRIFT, L=8.97098
145 IPM4T00B: MONITOR, L=0
D3030: DRIFT, L=0.28545
MBQ4T04: SBEND, L=1.00023, ANGLE=-2.14559, K1=-0, &
E1=-2.14557, E2=-0, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
150 D3031: DRIFT, L=0.500336
IPM4T01: MONITOR, L=0
MQA4T01: QUADRUPOLE, L=0.3, K1=0.60929, TILT=0
MBC4T01H: GKICK, L=1E-08, DXP=0, DYP=0
155 MBC4T01V: GKICK, L=1E-08, DXP=0, DYP=0
D3032: DRIFT, L=1.31076
MQA4T02: QUADRUPOLE, L=0.3, K1=-0.66094, TILT=0
D3033: DRIFT, L=3.47535
IPM4T03: MONITOR, L=0
160 MQA4T03: QUADRUPOLE, L=0.3, K1=0, TILT=0
MBC4T03H: GKICK, L=1E-08, DXP=0, DYP=0
MBC4T03V: GKICK, L=1E-08, DXP=0, DYP=0
D3034: DRIFT, L=3.31076
MQA4T04: QUADRUPOLE, L=0.3, K1=0, TILT=0
165 MBC4T04H: GKICK, L=1E-08, DXP=0, DYP=0
MBC4T04V: GKICK, L=1E-08, DXP=0, DYP=0
MQA4T05: QUADRUPOLE, L=0.3, K1=-0.458542, TILT=0
D3035: DRIFT, L=0.38924
MBC4T05V: GKICK, L=1E-08, DXP=0, DYP=0
170 D3036: DRIFT, L=1.08611
IPM4T06: MONITOR, L=0
MQA4T06: QUADRUPOLE, L=0.3, K1=0.462041, TILT=0
MBC4T06H: GKICK, L=1E-08, DXP=0, DYP=0

D3037: DRIFT, L=1.41707
175 MAF4T01: SBEND, L=1.00029, ANGLE=4.7657, K1=-1.31785, &
E1=3.92285, E2=3.92285, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=90
MAF4T03: SBEND, L=1.00029, ANGLE=-4.7657, K1=-1.84499, &
180 E1=-3.92285, E2=-3.92285, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=90
D3038: DRIFT, L=0.372992
IPM4T07: MONITOR, L=0
185 MQA4T07: QUADRUPOLE, L=0.3, K1=-1.48643, TILT=0
MBC4T07H: GKICK, L=1E-08, DXP=0, DYP=0
MBC4T07V: GKICK, L=1E-08, DXP=0, DYP=0
IPM4T08: MONITOR, L=0
MQA4T08: QUADRUPOLE, L=0.3, K1=1.1263, TILT=0
190 MBC4T08H: GKICK, L=1E-08, DXP=0, DYP=0
MBC4T08V: GKICK, L=1E-08, DXP=0, DYP=0
D3039: DRIFT, L=3.58611
IPM4T09: MONITOR, L=0
MQA4T09: QUADRUPOLE, L=0.3, K1=-0.710781, TILT=0
195 MBC4T09DV: GKICK, L=1E-08, DXP=0, DYP=0
D3040: DRIFT, L=0.51312
MAV4T04: SBEND, L=2.00259, ANGLE=10.0967, K1=-0.941419, &
E1=5.04837, E2=5.04837, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=90
200 D3041: DRIFT, L=2.53933
MAX4T05: SBEND, L=1.00963, ANGLE=-4.5727, K1=-0, &
E1=-11.6367, E2=3.98402, HGAP=0.023749, &
HGAPX=0.023749, &
FINT=0.5, TILT=90
205 D3042: DRIFT, L=2.00933
MAW4T06: SBEND, L=1.00155, ANGLE=-5.52401, K1=-0, &
E1=-5.52402, E2=1.54, HGAP=0.01905, &
HGAPX=0.01905, &
FINT=0.5, TILT=90
210 D3043: DRIFT, L=1.22622
IHA2C00: MONITOR, L=0
D3044: DRIFT, L=0.7738

215 BSY4P: LINE=(MAW4S01, &
D3000, MAX4S02, D3001, MAV4S03, D3002, &
IPM4S01, D3003, MQA4S01, D3004, MBC4S01H, &
D3005, MBC4S01V, D3006, ITV4S01, D3007, &
IPM4S02, D3003, MQA4S02, D3004, MBC4S02H, &
220 D3005, MBC4S02V, D3008, IPM4S03, D3003, &
MQA4S03, D3004, MBC4S03H, D3005, MBC4S03V, &
D3009, MAF4S04, D3010, MAF4S06, D3011, &
MQA4S04, D3012, ITV4S04, D3013, IPM4S05, &
D3003, MQA4S05, D3004, MBC4S05H, D3005, &
225 MBC4S05V, D3014, MQA4S06, D3015, IPM4S07, &
D3003, MQA4S07, D3004, MBC4S07H, D3005, &
MBC4S07V, D3016, IPM4S08, D3003, MQA4S08, &
D3004, MBC4S08H, D3005, MBC4S08V, D3016, &
IPM4S09, D3003, MQA4S09, D3004, MBC4S09H, &
230 D3005, MBC4S09V, D3016, IPM4S10, D3003, &
MQA4S10, D3004, MBC4S10H, D3005, MBC4S10V, &
D3017, RRF4T01, RRRF4T01, D3025A, RRF4T01, &
RRRF4T01, D3018A, IPM4E01, D3019, MQB4E01, &
D3020, MBM4E01H, D3005, MBM4E01V, D3006, &
235 D3021, MBW4E01, D3022, MBX4E02, D3022, &
MBW4E03, D3023, IPM4E02, D3019, MQB4E02, &
D3020, MBM4E02H, D3005, MBM4E02V, D3006, &
ITV4E02, D3024, MYA4T01, D3025, IPM4E03, &
D3019, MQB4E03, D3020, MBM4E03H, D3005, &
240 MBM4E03V, D3026, MYB4T02, D3027, IPM4T00A, &
D3028, MBP4T03, D3029, IPM4T00B, D3030, &
MBQ4T04, D3031, IPM4T01, D3003, MQA4T01, &
D3004, MBC4T01H, D3005, MBC4T01V, D3032, &
MQA4T02, D3033, IPM4T03, D3003, MQA4T03, &
245 D3004, MBC4T03H, D3005, MBC4T03V, D3034, &
MQA4T04, D3004, MBC4T04H, D3005, MBC4T04V, &
D3034, MQA4T05, D3035, MBC4T05V, D3036, &
IPM4T06, D3003, MQA4T06, D3004, MBC4T06H, &
D3037, MAF4T01, D3010, MAF4T03, D3038, &
250 IPM4T07, D3003, MQA4T07, D3004, MBC4T07H, &
D3005, MBC4T07V, D3008, IPM4T08, D3003, &
MQA4T08, D3004, MBC4T08H, D3005, MBC4T08V, &
D3039, IPM4T09, D3003, MQA4T09, D3004, &
D3005, MBC4T09DV, D3040, MAV4T04, D3041, &
255 MAX4T05, D3042, MAW4T06, D3043, IHA2C00, &
D3044)
USE, BSY4P
DIMAT

1

* DIMAD PROGRAM : LAST MODIFIED ON May 27, 2005 *

CONVERTED FROM ../../OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//BSY4P.OPT

1

TOTAL LENGTH OF MACHINE IS: 166.992 METERS

IN THIS RUN THERE ARE :
 145 DISTINCT ELEMENTS. ALLOCATED MXELMD : 146
 202 ELEMENTS IN MACHINE. ALLOCATED MXPOS_D : 204
 40 MATRICES DEFINED. ALLOCATED MAXMAT : 41
 930 VALUES IN ELDAT. ALLOCATED MAXDAT : 930
 0 LCAVs. ALLOCATED MX_LCAV : 1

1

OPERATION LIST ,

MACHINE

1 2 1 0 1 1 1

26.0372 1.47151 0.00107255 7.0455e-05
 17.6828 -1.0152 -0.000220635 -1.43483e-05
 0,

ELEMENT	#	BETAX	ALPHAX	BETAY	ALPHAY	ETAX	ETAPX	ETAY	ETAPY	NUX	NUY	ACC.LEN
\$\$INITIAL\$\$	0	26.0372	1.4715	17.6828	-1.0152	0.0011	0.0001	-0.0002	0.0000	0.00000	0.00000	0.000
MW4S01	1	23.2993	1.4824	19.5927	-1.0662	0.0011	0.0001	-0.0485	-0.0967	0.00648	0.00855	1.002
D3000	2	17.8962	1.2066	24.3175	-1.2853	0.0013	0.0001	-0.2427	-0.0967	0.02216	0.02322	3.011
MAX4S02	3	15.7810	1.2440	26.5945	-1.5292	0.0013	0.0000	-0.3785	-0.1795	0.03172	0.02954	4.021
D3001	4	10.5040	0.8341	35.1701	-1.8479	0.0015	0.0000	-0.8344	-0.1795	0.06332	0.04277	6.560
MV4S03	5	7.7611	0.5265	41.9861	-1.5435	0.0016	0.0000	-1.0041	0.0096	0.09907	0.05099	8.562
D3002	6	7.3844	0.4639	43.1719	-1.5741	0.0016	0.0000	-1.0004	0.0096	0.10707	0.05241	8.943
IPM4S01	7	7.3844	0.4639	43.1719	-1.5741	0.0016	0.0000	-1.0004	0.0096	0.10707	0.05241	8.943
D3003	8	7.1843	0.4269	43.8832	-1.5922	0.0016	0.0000	-0.9982	0.0096	0.11198	0.05323	9.167
MQA4S01	9	7.4045	-1.1766	42.0410	7.6005	0.0017	0.0004	-0.9634	0.2212	0.11860	0.05433	9.467
D3004	10	7.8711	-1.2388	39.1571	7.3305	0.0017	0.0004	-0.9207	0.2212	0.12263	0.05509	9.661
MBC4S01H	11	7.8711	-1.2388	39.1571	7.3305	0.0017	0.0004	-0.9207	0.2212	0.12263	0.05509	9.661
D3005	12	8.3693	-1.3020	36.3359	7.0564	0.0018	0.0004	-0.8773	0.2212	0.12647	0.05592	9.857
MBC4S01V	13	8.3693	-1.3020	36.3359	7.0564	0.0018	0.0004	-0.8773	0.2212	0.12647	0.05592	9.857
D3006	14	9.7678	-1.4647	29.5596	6.3498	0.0020	0.0004	-0.7655	0.2212	0.13538	0.05837	10.362
ITV4S01	15	9.7678	-1.4647	29.5596	6.3498	0.0020	0.0004	-0.7655	0.2212	0.13538	0.05837	10.362
D3007	16	21.8487	-2.4568	3.7027	2.0435	0.0032	0.0004	-0.0841	0.2212	0.16919	0.10594	13.443
IPM4S02	17	21.8487	-2.4568	3.7027	2.0435	0.0032	0.0004	-0.0841	0.2212	0.16919	0.10594	13.443
D3003	18	22.9688	-2.5291	2.8551	1.7295	0.0033	0.0004	-0.0345	0.2212	0.17079	0.11695	13.667
MQA4S02	19	21.9974	5.6487	2.1930	0.5572	0.0032	-0.0008	0.0312	0.2206	0.17288	0.13643	13.967
D3004	20	19.8712	5.3597	2.0000	0.4418	0.0031	-0.0008	0.0738	0.2206	0.17435	0.15112	14.161
MBC4S02H	21	19.8712	5.3597	2.0000	0.4418	0.0031	-0.0008	0.0738	0.2206	0.17435	0.15112	14.161
D3005	22	17.8267	5.0664	1.8498	0.3246	0.0029	-0.0008	0.1171	0.2206	0.17600	0.16738	14.357
MBC4S02V	23	17.8267	5.0664	1.8498	0.3246	0.0029	-0.0008	0.1171	0.2206	0.17600	0.16738	14.357
D3008	24	6.9588	3.0676	2.0491	-0.4738	0.0018	-0.0008	0.4118	0.2206	0.19514	0.28776	15.693
IPM4S03	25	6.9588	3.0676	2.0491	-0.4738	0.0018	-0.0008	0.4118	0.2206	0.19514	0.28776	15.693
D3003	26	5.6560	2.7315	2.2922	-0.6081	0.0017	-0.0008	0.4614	0.2206	0.20084	0.30428	15.917
MQA4S03	27	4.8035	0.2368	2.3814	0.3243	0.0015	-0.0001	0.4954	0.0033	0.21022	0.32432	16.217
D3004	28	4.7202	0.1943	2.2734	0.2346	0.0015	-0.0001	0.4960	0.0033	0.21667	0.33754	16.411
MBC4S03H	29	4.7202	0.1943	2.2734	0.2346	0.0015	-0.0001	0.4960	0.0033	0.21667	0.33754	16.411
D3005	30	4.6524	0.1512	2.1993	0.1436	0.0015	-0.0001	0.4967	0.0033	0.22333	0.35152	16.607
MBC4S03V	31	4.6524	0.1512	2.1993	0.1436	0.0015	-0.0001	0.4967	0.0033	0.22333	0.35152	16.607
D3009	32	4.5557	0.0400	2.1727	-0.0911	0.0015	-0.0001	0.4984	0.0033	0.24085	0.38868	17.112
MAF4S04	33	4.6951	-0.1792	2.8020	-0.5374	0.0014	-0.0001	0.4585	-0.0831	0.27559	0.45496	18.113
D3010	34	12.0267	-1.2821	19.7737	-2.8452	0.0009	-0.0001	0.0418	-0.0831	0.39195	0.57268	23.130
MAF4S06	35	14.8572	-1.5473	25.6866	-3.0535	0.0008	-0.0001	0.0003	0.0000	0.40389	0.57973	24.130
D3011	36	20.7711	-1.9352	37.2164	-3.7360	0.0006	-0.0001	0.0003	0.0000	0.41930	0.58847	25.829
MQA4S04	37	23.3735	-6.9253	37.0474	4.2870	0.0006	0.0000	0.0003	0.0000	0.42149	0.58974	26.129
D3012	38	37.4424	-8.7994	29.7949	3.8190	0.0007	0.0000	0.0003	0.0000	0.42630	0.59403	27.023
ITV4S04	39	37.4424	-8.7994	29.7949	3.8190	0.0007	0.0000	0.0003	0.0000	0.42630	0.59403	27.023
D3013	40	40.6900	-9.1778	28.4322	3.7245	0.0007	0.0000	0.0003	0.0000	0.42704	0.59502	27.204
IPM4S05	41	40.6900	-9.1778	28.4322	3.7245	0.0007	0.0000	0.0003	0.0000	0.42704	0.59502	27.204
D3003	42	44.9193	-9.6484	26.7851	3.6070	0.0007	0.0000	0.0003	0.0000	0.42788	0.59631	27.429
MQA4S05	43	45.5869	7.5073	27.6389	-6.5590	0.0007	-0.0002	0.0003	0.0001	0.42891	0.59810	27.729
D3004	44	42.7338	7.2642	30.2320	-6.8666	0.0006	-0.0002	0.0003	0.0001	0.42961	0.59917	27.922
MBC4S05H	45	42.7338	7.2642	30.2320	-6.8666	0.0006	-0.0002	0.0003	0.0001	0.42961	0.59917	27.922
D3005	46	39.9333	7.0175	32.9862	-7.1789	0.0006	-0.0002	0.0003	0.0001	0.43036	0.60015	28.118
MBC4S05V	47	39.9333	7.0175	32.9862	-7.1789	0.0006	-0.0002	0.0003	0.0001	0.43036	0.60015	28.118
D3014	48	28.1945	5.8716	47.3839	-8.6295	0.0004	-0.0002	0.0003	0.0001	0.43468	0.60382	29.029
MQA4S06	49	26.3003	0.5626	49.8378	0.6069	0.0003	-0.0001	0.0003	0.0000	0.43645	0.60479	29.329
D3015	50	22.4050	0.3486	45.1503	0.4895	-0.0003	-0.0001	0.0003	0.0000	0.46463	0.61916	33.604
IPM4S07	51	22.4050	0.3486	45.1503	0.4895	-0.0003	-0.0001	0.0003	0.0000	0.46463	0.61916	33.604
D3003	52	22.2509	0.3373	44.9317	0.4834	-0.0003	-0.0001	0.0003	0.0000	0.46623	0.61995	33.829
MQA4S07	53	22.0530	0.3223	44.6442	0.4751	-0.0003	-0.0001	0.0003	0.0000	0.46839	0.62102	34.129
D3004	54	21.9304	0.3126	44.4616	0.4698	-0.0004	-0.0001	0.0003	0.0000	0.46979	0.62171	34.322
MBC4S07H	55	21.9304	0.3126	44.4616	0.4698	-0.0004	-0.0001	0.0003	0.0000	0.46979	0.62171	34.322
D3005	56	21.8097	0.3028	44.2785	0.4644	-0.0004	-0.0001	0.0003	0.0000	0.47121	0.62241	34.518
MBC4S07V	57	21.8097	0.3028	44.2785	0.4644	-0.0004	-0.0001	0.0003	0.0000	0.47121	0.62241	34.518
D3016	58	20.6868	0.1884	42.2985	0.4017	-0.0007	-0.0001	0.0003	0.0000	0.48838	0.63082	36.804
IPM4S08	59	20.6868	0.1884	42.2985	0.4017	-0.0007	-0.0001	0.0003	0.0000	0.48838	0.63082	36.804
D3003	60	20.6047	0.1771	42.1194	0.3955	-0.0008	-0.0001	0.0003	0.0000	0.49011	0.63167	37.029
MQA4S08	61	20.8265	-0.9203	41.2303	2.5527	-0.0008	-0.0002	0.0003	0.0000	0.49242	0.63281	37.329
D3004	62	21.1853	-0.9374	40.2510	2.5175	-0.0008	-0.0002	0.0003	0.0000	0.49388	0.63357	37.522
MBC4S08H	63	21.1853	-0.9374	40.2510	2.5175	-0.0008	-0.0002	0.0003	0.0000	0.49388	0.63357	37.522
D3005	64	21.5563	-0.9548	39.2707	2.4817	-0.0009	-0.0002	0.0003	0.0000	0.49534	0.63435	37.718
MBC4S08V	65	21.5563	-0.9548	39.2707	2.4817	-0.0009	-0.0002	0.0003	0.0000	0.49534	0.63435	37.718
D3016	66	26.3853	-1.1575	28.8765	2.0650	-0.0013	-0.0002	0.0002	0.0000	0.51062	0.64517	40.004
IPM4S09	67	26.3853	-1.1575	28.8765	2.0650	-0.0013	-0.0002	0.0002	0.0000	0.51062	0.64517	40.004
D3003	68	26.9098	-1.1774	27.9579	2.0240	-0.0013	-0.0002	0.0002	0.0000	0.51197	0.64642	40.229
MQA4S09	69	27.6243	-1.2040	26.7599	1.9693	-0.0014	-0.0002	0.0002	0.0000	0.51372	0.64817	40.529
D3004	70	28.0927	-1.2212	26.0059	1.9341	-0.0014	-0.0002	0.0002	0.0000	0.51482	0.64933	40.722
MBC4S09H	71	28.0927	-1.2212	26.0059	1.9341	-0.0014	-0.0002	0.0002	0.0000	0.51482	0.64933	40.722
D3005	72	28.5750	-1.2386	25.2544	1.8984	-0.0015	-0.0002	0.0002	0.0000	0.51592	0.65055	40.918
MBC4S09V	73	28.5750	-1.2386	25.2544	1.8984	-0.0015	-0.0002	0.0002	0.0000	0.51592	0.65055	40.918

D3016	74	34.7015	-1.4413	17.5274	1.4816	-0.0019	-0.0002	0.0002	0.0000	0.52749	0.66788	43.204
IPM4S10	75	34.7015	-1.4413	17.5274	1.4816	-0.0019	-0.0002	0.0002	0.0000	0.52749	0.66788	43.204
D3003	76	35.3535	-1.4612	16.8709	1.4407	-0.0019	-0.0002	0.0001	0.0000	0.52851	0.66996	43.429
MQA4S10	77	35.2932	1.6606	16.4592	-0.0562	-0.0020	0.0000	0.0001	0.0000	0.52985	0.67284	43.729
D3004	78	34.6557	1.6400	16.4832	-0.0680	-0.0020	0.0000	0.0001	0.0000	0.53073	0.67470	43.922
MBC4S10H	79	34.6557	1.6400	16.4832	-0.0680	-0.0020	0.0000	0.0001	0.0000	0.53073	0.67470	43.922
D3005	80	34.0166	1.6192	16.5122	-0.0799	-0.0020	0.0000	0.0001	0.0000	0.53164	0.67660	44.118
MBC4S10V	81	34.0166	1.6192	16.5122	-0.0799	-0.0020	0.0000	0.0001	0.0000	0.53164	0.67660	44.118
D3017	82	31.6504	1.5394	16.6661	-0.1256	-0.0020	0.0000	0.0001	0.0000	0.53528	0.68379	44.867
RRF4T01	83	29.5474	1.4649	16.8718	-0.1683	-0.0020	-0.0001	0.0001	0.0000	0.53892	0.69043	45.567
RRRF4T01	84	29.5474	1.4649	16.8718	-0.1683	-0.0020	-0.0001	0.0001	0.0000	0.53892	0.69043	45.567
D3025A	85	26.4443	1.3474	17.3173	-0.2355	-0.0021	-0.0001	0.0001	0.0000	0.54520	0.70071	46.670
RRF4T01	86	24.6101	1.2729	17.6769	-0.2782	-0.0022	-0.0002	0.0001	0.0000	0.54957	0.70708	47.370
RRRF4T01	87	24.6101	1.2729	17.6769	-0.2782	-0.0022	-0.0002	0.0001	0.0000	0.54957	0.70708	47.370
D3018A	88	9.4119	-0.0456	33.9129	-1.0329	-0.0042	-0.0002	0.0000	0.0000	0.70084	0.79148	59.754
IPM4E01	89	9.4119	-0.0456	33.9129	-1.0329	-0.0042	-0.0002	0.0000	0.0000	0.70084	0.79148	59.754
D3019	90	9.4488	-0.0775	34.5374	-1.0512	-0.0043	-0.0002	0.0000	0.0000	0.70590	0.79287	60.054
MQB4E01	91	9.5729	-0.7529	34.4951	1.3326	-0.0043	-0.0006	0.0000	0.0000	0.70841	0.79356	60.204
D3020	92	9.9885	-0.7968	33.7862	1.3110	-0.0045	-0.0006	0.0000	0.0000	0.71278	0.79481	60.472
MBM4E01H	93	9.9885	-0.7968	33.7862	1.3110	-0.0045	-0.0006	0.0000	0.0000	0.71278	0.79481	60.472
D3005	94	10.3073	-0.8289	33.2751	1.2953	-0.0046	-0.0006	0.0000	0.0000	0.71585	0.79574	60.668
MBM4E01V	95	10.3073	-0.8289	33.2751	1.2953	-0.0046	-0.0006	0.0000	0.0000	0.71585	0.79574	60.668
D3006	96	11.1871	-0.9116	31.9862	1.2546	-0.0049	-0.0006	0.0000	0.0000	0.72335	0.79821	61.173
D3021	97	12.1006	-0.9903	30.7996	1.2159	-0.0052	-0.0006	0.0000	0.0000	0.72992	0.80065	61.654
MBW4E01	98	13.1111	-1.0722	29.6035	1.2730	-0.0156	-0.0412	0.0000	0.0000	0.73624	0.80328	62.154
D3022	99	30.8807	-2.0157	17.8837	0.7636	-0.2526	-0.0412	-0.0001	0.0000	0.78240	0.84351	67.908
MBX4E02	100	35.0724	-2.1795	16.3323	0.7823	-0.2532	0.0399	-0.0001	0.0000	0.78723	0.85283	68.909
D3022	101	65.5864	-3.1230	10.5974	0.2143	-0.0233	0.0399	-0.0001	0.0000	0.80638	0.92489	74.663
MBW4E03	102	68.8608	-3.2049	10.3733	0.1990	-0.0135	-0.0006	-0.0001	0.0000	0.80756	0.93248	75.164
D3023	103	76.4507	-3.3932	10.0480	0.0837	-0.0142	-0.0006	-0.0001	0.0000	0.81008	0.95046	76.314
IPM4E02	104	76.4507	-3.3932	10.0480	0.0837	-0.0142	-0.0006	-0.0001	0.0000	0.81008	0.95046	76.314
D3019	105	78.4989	-3.4422	10.0069	0.0537	-0.0144	-0.0006	-0.0001	0.0000	0.81070	0.95521	76.614
MQB4E02	106	78.4895	3.5046	10.1262	-0.8528	-0.0144	0.0013	-0.0002	0.0000	0.81100	0.95759	76.764
D3020	107	76.6222	3.4593	10.5958	-0.8985	-0.0140	0.0013	-0.0002	0.0000	0.81155	0.96171	77.032
MBM4E02H	108	76.6222	3.4593	10.5958	-0.8985	-0.0140	0.0013	-0.0002	0.0000	0.81155	0.96171	77.032
D3005	109	75.2720	3.4261	10.9547	-0.9319	-0.0138	0.0013	-0.0002	0.0000	0.81196	0.96461	77.228
MBM4E02V	110	75.2720	3.4261	10.9547	-0.9319	-0.0138	0.0013	-0.0002	0.0000	0.81196	0.96461	77.228
D3006	111	71.8518	3.3405	11.9404	-1.0182	-0.0131	0.0013	-0.0002	0.0000	0.81306	0.97164	77.733
ITV4E02	112	71.8518	3.3405	11.9404	-1.0182	-0.0131	0.0013	-0.0002	0.0000	0.81306	0.97164	77.733
D3024	113	70.0648	3.2950	12.5012	-1.0641	-0.0127	0.0013	-0.0002	0.0000	0.81366	0.97515	78.003
MYA4T01	114	63.6440	3.1257	14.7999	-1.2346	-0.0121	0.0000	-0.0002	0.0000	0.81605	0.98686	79.003
D3025	115	9.5049	0.7800	81.7981	-3.5988	-0.0118	0.0000	-0.0005	0.0000	0.91133	1.05208	92.864
IPM4E03	116	9.5049	0.7800	81.7981	-3.5988	-0.0118	0.0000	-0.0005	0.0000	0.91133	1.05208	92.864
D3019	117	9.0526	0.7293	83.9702	-3.6499	-0.0118	0.0000	-0.0005	0.0000	0.91647	1.05265	93.164
MQB4E03	118	8.9714	-0.1855	83.8095	4.7201	-0.0120	-0.0032	-0.0005	0.0000	0.91913	1.05294	93.314
D3020	119	9.0791	-0.2164	81.2981	4.6456	-0.0129	-0.0032	-0.0005	0.0000	0.92386	1.05345	93.582
MBM4E03H	120	9.0791	-0.2164	81.2981	4.6456	-0.0129	-0.0032	-0.0005	0.0000	0.92386	1.05345	93.582
D3005	121	9.1684	-0.2390	79.4868	4.5912	-0.0135	-0.0032	-0.0005	0.0000	0.92728	1.05384	93.778
MBM4E03V	122	9.1684	-0.2390	79.4868	4.5912	-0.0135	-0.0032	-0.0005	0.0000	0.92728	1.05384	93.778
D3026	123	18.0306	-1.0387	29.1620	2.6646	-0.0359	-0.0032	-0.0003	0.0000	1.01796	1.07685	100.714
MYB4T02	124	20.1980	-1.1542	24.1146	2.4143	-0.0559	-0.0370	-0.0003	0.0000	1.02631	1.08285	101.714
D3027	125	45.9553	-2.0751	3.6167	0.1556	-0.3507	-0.0370	0.0000	0.0000	1.06847	1.24579	109.690
IPM4T00A	126	45.9553	-2.0751	3.6167	0.1556	-0.3507	-0.0370	0.0000	0.0000	1.06847	1.24579	109.690
D3028	127	47.1239	-2.1074	3.5519	0.0764	-0.3610	-0.0370	0.0000	0.0000	1.06942	1.25821	109.969
MBP4T03	128	56.0078	-2.3381	4.3607	-0.4796	-0.3607	0.0372	0.0000	0.0000	1.07561	1.34308	111.970
D3029	129	107.2508	-3.3740	35.6663	-3.0100	-0.0265	0.0372	0.0003	0.0000	1.09408	1.47085	120.941
IPM4T00B	130	107.2508	-3.3740	35.6663	-3.0100	-0.0265	0.0372	0.0003	0.0000	1.09408	1.47085	120.941
D3030	131	109.1864	-3.4069	37.4077	-3.0906	-0.0159	0.0372	0.0003	0.0000	1.09450	1.47210	121.226
MBQ4T04	132	116.2737	-3.5223	43.7589	-3.3116	0.0026	-0.0002	0.0003	0.0000	1.09591	1.47603	122.227
D3031	133	119.8272	-3.5800	47.1412	-3.4485	0.0025	-0.0002	0.0003	0.0000	1.09659	1.47779	122.727
IPM4T01	134	119.8272	-3.5800	47.1412	-3.4485	0.0025	-0.0002	0.0003	0.0000	1.09659	1.47779	122.727
D3003	135	121.4415	-3.6059	48.7044	-3.5099	0.0025	-0.0002	0.0004	0.0000	1.09688	1.47853	122.952
MQA4T01	136	116.9984	18.1443	53.6331	-13.2186	0.0023	-0.0007	0.0004	0.0001	1.09728	1.47948	123.252
D3004	137	110.0946	17.5992	58.8617	-13.8514	0.0022	-0.0007	0.0004	0.0001	1.09755	1.48002	123.445
MBC4T01H	138	110.0946	17.5992	58.8617	-13.8514	0.0022	-0.0007	0.0004	0.0001	1.09755	1.48002	123.445
D3005	139	103.3010	17.0458	64.4199	-14.4939	0.0021	-0.0007	0.0004	0.0001	1.09784	1.48053	123.641
MBC4T01V	140	103.3010	17.0458	64.4199	-14.4939	0.0021	-0.0007	0.0004	0.0001	1.09784	1.48053	123.641
D3032	141	63.4644	13.3463	108.0454	-18.7886	0.0012	-0.0007	0.0005	0.0001	1.10042	1.48303	124.952
MQA4T02	142	59.2450	0.9962	112.8653	3.0421	-0.0004	0.0005	0.0000	0.0000	1.10120	1.48346	125.252
D3033	143	52.7268	0.8793	92.8176	2.7264	-0.0004	0.0004	0.0005	0.0000	1.11111	1.48886	128.727
IPM4T03	144	52.7268	0.8793	92.8176	2.7264	-0.0004	0.0004	0.0005	0.0000	1.11111	1.48886	128.727
D3003	145	52.3334	0.8718	91.5972	2.7060	-0.0005	-0.0004	0.0005	0.0000	1.11179	1.48925	128.952
MQA4T03	146	51.8133	0.8617	89.9818	2.6787	-0.0007	-0.0004	0.0005	0.0000	1.11271	1.48978	129.252
D3004	147	51.4817	0.8552	88.9504	2.6612	-0.0008	-0.0004	0.0005	0.0000	1.11330	1.49012	129.445
MBC4T03H	148	51.4817	0.8552	88.9504	2.6612	-0.0008	-0.0004	0.0005	0.0000	1.11330	1.49012	129.445
D3005	149	51.1476	0.8486	87.9103	2.6433	-0.0008	-0.0004	0.0005	0.0000	1.11391	1.49047	129.641
MBC4T03V	150	51.1476	0.8486	87.9103	2.6433	-0.0008	-0.0004	0.0005	0.0000	1.11391	1.49047	129.641
D3034	151	45.8972	0.7373	71.4032	2.3425	-0.0023	-0.0004	0.0004	0.0000	1.12479	1.49713	132.952
MQA4T04	152	45.4578	0.7272	70.0058	2.3153	-0.0024	-0.0004	0.0004	0.0000	1.12584	1.49780	133.252
D3004	153	45.1782	0.7207	69.1148	2.2977	-0.0025	-0.0004	0.0004	0.0000	1.12652	1.49824	133.445
MBC4T04H	154	45.1782	0.7207	69.1148	2.2977	-0.0025	-0.0004	0.0004	0.0000	1.12652	1.49824	133.445
D3005	155	44.8968	0.7141	68.2172	2.2799	-0.0026	-0.0004	0.0004	0.0000	1.12721	1.49870	133.641
MBC4T04V	156	44.8968	0.7141	68.2172	2.2799	-0.0026	-0.0004	0.0004	0.0000	1.12721	1	

MBC4T07V	178	38.6924	-12.8411	3.6591	0.8543	-0.0094	-0.0036	0.3763	-0.2201	1.18686	1.85945	149.167
D3008	179	80.6609	-18.5698	2.2201	0.2226	-0.0142	-0.0036	0.0822	-0.2201	1.19067	1.93710	150.503
IPM4T08	180	80.6609	-18.5698	2.2201	0.2226	-0.0142	-0.0036	0.0822	-0.2201	1.19067	1.93710	150.503
D3003	181	89.2206	-19.5330	2.1440	0.1164	-0.0150	-0.0036	0.0327	-0.2201	1.19109	1.95352	150.727
MQA4T08	182	91.7948	11.2444	2.3381	-0.7851	-0.0153	0.0016	-0.0328	-0.2201	1.19161	1.97528	151.027
D3004	183	87.5029	10.9762	2.6671	-0.9187	-0.0150	0.0016	-0.0753	-0.2201	1.19195	1.98760	151.220
MBC4T08H	184	87.5029	10.9762	2.6671	-0.9187	-0.0150	0.0016	-0.0753	-0.2201	1.19195	1.98760	151.220
D3005	185	83.2516	10.7040	3.0540	-1.0542	-0.0147	0.0016	-0.1185	-0.2201	1.19231	1.99854	151.417
MBC4T08V	186	83.2516	10.7040	3.0540	-1.0542	-0.0147	0.0016	-0.1185	-0.2201	1.19231	1.99854	151.417
D3039	187	24.3336	5.7255	19.5061	-3.5335	-0.0090	0.0016	-0.9079	-0.2201	1.20501	2.07545	155.003
IPM4T09	188	24.3336	5.7255	19.5061	-3.5335	-0.0090	0.0016	-0.9079	-0.2201	1.20501	2.07545	155.003
D3003	189	21.8312	5.4136	21.1286	-3.6888	-0.0086	0.0016	-0.9574	-0.2201	1.20656	2.07721	155.227
MQA4T09	190	19.9970	0.8304	21.9866	0.8901	-0.0084	-0.0002	-0.9922	-0.0112	1.20887	2.07940	155.527
D3004	191	19.6793	0.8141	21.6458	0.8744	-0.0085	-0.0002	-0.9944	-0.0112	1.21042	2.08081	155.720
D3005	192	19.3633	0.7976	21.3060	0.8584	-0.0085	-0.0002	-0.9966	-0.0112	1.21202	2.08226	155.917
MBC4T09D	193	19.3633	0.7976	21.3060	0.8584	-0.0085	-0.0002	-0.9966	-0.0112	1.21202	2.08226	155.917
D3040	194	18.5670	0.7542	20.4465	0.8166	-0.0086	-0.0002	-1.0023	-0.0112	1.21633	2.08618	156.430
MAV4T04	195	15.8469	0.5965	16.9844	0.9043	-0.0091	-0.0002	-0.8343	0.1795	1.23504	2.10314	158.432
D3041	196	13.3694	0.3792	13.0821	0.6325	-0.0096	-0.0002	-0.3786	0.1795	1.26295	2.13038	160.977
MAX4T05	197	12.2718	0.4230	12.2468	0.4734	-0.0097	-0.0001	-0.2428	0.0967	1.27551	2.14308	161.981
D3042	198	10.9597	0.2300	10.7478	0.2726	-0.0099	-0.0001	-0.0485	0.0967	1.30322	2.17110	163.991
MAW4T06	199	10.4001	0.1999	10.4006	0.2000	-0.0100	-0.0001	-0.0002	0.0000	1.31817	2.18617	164.992
D3043	200	10.0601	0.0773	10.0604	0.0774	-0.0100	-0.0001	-0.0002	0.0000	1.33730	2.20530	166.218
IHA2C00	201	10.0601	0.0773	10.0604	0.0774	-0.0100	-0.0001	-0.0002	0.0000	1.33730	2.20530	166.218
D3044	202	10.0003	0.0000	10.0005	0.0000	-0.0101	-0.0001	-0.0001	0.0000	1.34959	2.21759	166.992

MAXIMUM LATTICE FUNCTIONS :
 BETA X = 0.1214414902E+03 BETA Y = 0.1128652548E+03
 ETA X = 0.3297393266E-02 ETA Y = 0.4984438153E+00

1
 OPERATION LIST ,

MATRIX

1 -1,

AFTER :D3044 ELEMENT #: 202

 * TRANSFORMATION MATRIX *

FIRST ORDER MATRIX

- 0.3761782E+00 0.1307890E+02 -0.1036596E-15 -0.9498851E-14 0.0000000E+00 -0.1140070E-01
 - -0.1036397E+00 -0.9450130E+00 0.3660384E-16 -0.1934942E-14 0.0000000E+00 0.1241054E-03
 - -0.9804524E-15 -0.1546014E-13 -0.5955967E+00 0.1302322E+02 0.0000000E+00 -0.7531923E-04
 - -0.1517273E-15 -0.2951695E-14 -0.8908334E-01 0.2688937E+00 0.0000000E+00 0.1429113E-04
 - -0.1134880E-02 -0.9150647E-02 -0.1522144E-04 0.2063695E-03 0.1000000E+01 -0.4087946E+00
 - 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.1000000E+01

HORIZONTAL MOVEMENT ANALYSIS

COMPACTION FACTOR = -0.2447960E-02 GAMMA TR = -0.2021147E+02

COS(MU) = -0.28441738474174E+00 NU = 0.29590007229697E+00
 ETA = -0.80002605596505E-02 ETAP = 0.49009971303326E-03
 ALPHA = 0.68905308967307E+00 BETA = 0.13642316034272E+02

VERTICAL MOVEMENT ANALYSIS

COS(MU) = -0.16335150219429E+00 NU = 0.27611523125415E+00
 ETA = 0.56324441272316E-04 ETAP = 0.12684289111875E-04
 ALPHA = -0.43813016211946E+00 BETA = 0.13200533413640E+02

1
 OPERATION LIST ,

HARDWARE

4.48211 2212.09 -80.6 100 -91.5251 -180 0.0 0 1 0 ;

VALUES ARE FOR ENERGY : 0.448E+01 GEV

THE LENGTHS ARE MEASURED IN METERS ,THE ANGLES IN DEGREES

THE SXYZ COORDINATES,AZIMUTH,ELEVATION AND ROLL ANGLES ARE :

#	NAME	S	X	Y	Z	THETA	PHI	PSI
1	MAW4S01	2213.0915500000	-80.6000000000	99.9517564993	-92.5250990966	180.0000000000	-5.5240200000	0.0000000000
2	D3000	2215.1008800000	-80.6000000000	99.7583322809	-94.5250976267	180.0000000000	-5.5240200000	0.0000000000
3	MAX4S02	2216.1105100000	-80.6000000000	99.6211651367	-95.5250961112	180.0000000000	-10.0967200000	0.0000000000
4	D3001	2218.6498400000	-80.6000000000	99.1759942647	-98.0251000599	180.0000000000	-10.0967200000	0.0000000000
5	MAV4S03	2220.6524300000	-80.6000000000	99.0000008487	-100.0173414345	180.0000000000	-0.0000200000	0.0000000000
6	D3002	2221.0327800000	-80.6000000000	99.0000007159	-100.3976914345	180.0000000000	-0.0000200000	0.0000000000
7	IPM4S01	2221.0327800000	-80.6000000000	99.0000007159	-100.3976914345	180.0000000000	-0.0000200000	0.0000000000
8	D3003	2221.2574300000	-80.6000000000	99.0000006375	-100.6223414345	180.0000000000	-0.0000200000	0.0000000000
9	MQA4S01	2221.5574300000	-80.6000000000	99.0000005327	-100.9223414345	180.0000000000	-0.0000200000	0.0000000000
10	D3004	2221.7505800000	-80.6000000000	99.0000004653	-101.1154914345	180.0000000000	-0.0000200000	0.0000000000

11	MBC4S01H	2221.7505800100	-80.6000000000	99.0000004653	-101.1154914445	180.0000000000	-0.0000200000	0.0000000000
12	D3005	2221.9466700100	-80.6000000000	99.0000003969	-101.3115814445	180.0000000000	-0.0000200000	0.0000000000
13	MBC4S01V	2221.9466700200	-80.6000000000	99.0000003969	-101.3115814545	180.0000000000	-0.0000200000	0.0000000000
14	D3006	2222.4521300200	-80.6000000000	99.0000002204	-101.8170414545	180.0000000000	-0.0000200000	0.0000000000
15	ITV4S01	2222.4521300200	-80.6000000000	99.0000002204	-101.8170414545	180.0000000000	-0.0000200000	0.0000000000
16	D3007	2225.5327800200	-80.6000000000	98.9999991451	-104.8976914545	180.0000000000	-0.0000200000	0.0000000000
17	IPM4S02	2225.5327800200	-80.6000000000	98.9999991451	-104.8976914545	180.0000000000	-0.0000200000	0.0000000000
18	D3003	2225.7574300200	-80.6000000000	98.9999990667	-105.1223414545	180.0000000000	-0.0000200000	0.0000000000
19	MQA4S02	2226.0574300200	-80.6000000000	98.9999989620	-105.4223414545	180.0000000000	-0.0000200000	0.0000000000
20	D3004	2226.2505800200	-80.6000000000	98.9999988945	-105.6154914545	180.0000000000	-0.0000200000	0.0000000000
21	MBC4S02H	2226.2505800300	-80.6000000000	98.9999988945	-105.6154914645	180.0000000000	-0.0000200000	0.0000000000
22	D3005	2226.4466700300	-80.6000000000	98.9999988261	-105.8115814745	180.0000000000	-0.0000200000	0.0000000000
23	MBC4S02V	2226.4466700400	-80.6000000000	98.9999988261	-105.8115814745	180.0000000000	-0.0000200000	0.0000000000
24	D3008	2227.7827800400	-80.6000000000	98.9999983597	-107.1476914745	180.0000000000	-0.0000200000	0.0000000000
25	IPM4S03	2227.7827800400	-80.6000000000	98.9999983597	-107.1476914745	180.0000000000	-0.0000200000	0.0000000000
26	D3003	2228.0074300400	-80.6000000000	98.9999982813	-107.3723414745	180.0000000000	-0.0000200000	0.0000000000
27	MQA4S03	2228.3074300400	-80.6000000000	98.9999981766	-107.6273414745	180.0000000000	-0.0000200000	0.0000000000
28	D3004	2228.5005800400	-80.6000000000	98.9999981091	-107.8654914745	180.0000000000	-0.0000200000	0.0000000000
29	MBC4S03H	2228.5005800500	-80.6000000000	98.9999981091	-107.8654914845	180.0000000000	-0.0000200000	0.0000000000
30	D3005	2228.6966700500	-80.6000000000	98.9999980407	-108.0615814845	180.0000000000	-0.0000200000	0.0000000000
31	MBC4S03V	2228.6966700600	-80.6000000000	98.9999980407	-108.0615814945	180.0000000000	-0.0000200000	0.0000000000
32	D3009	2229.2024300600	-80.6000000000	98.9999978641	-108.5673414945	180.0000000000	-0.0000200000	0.0000000000
33	MAF4S04	2230.2027200600	-80.6000000000	98.9584209425	-109.5664784762	180.0000000000	-4.7657100000	0.0000000000
34	D3010	2235.2200600600	-80.6000000000	98.5415730405	-114.5664723264	180.0000000000	-4.7657100000	0.0000000000
35	MAF4S06	2236.2203500600	-80.6000000000	98.4999961189	-115.5656093080	180.0000000000	-0.0000200000	0.0000000000
36	D3011	2237.9185500600	-80.6000000000	98.4999955261	-117.2638093080	180.0000000000	-0.0000200000	0.0000000000
37	MQA4S04	2238.2185500600	-80.6000000000	98.4999954214	-117.5638093080	180.0000000000	-0.0000200000	0.0000000000
38	D3012	2239.1132500600	-80.6000000000	98.4999951091	-118.4585093080	180.0000000000	-0.0000200000	0.0000000000
39	ITV4S04	2239.1132500600	-80.6000000000	98.4999951091	-118.4585093080	180.0000000000	-0.0000200000	0.0000000000
40	D3013	2239.2939000600	-80.6000000000	98.4999950460	-118.6391593080	180.0000000000	-0.0000200000	0.0000000000
41	IPM4S05	2239.2939000600	-80.6000000000	98.4999950460	-118.6391593080	180.0000000000	-0.0000200000	0.0000000000
42	D3003	2239.5185500600	-80.6000000000	98.4999949676	-118.8638093080	180.0000000000	-0.0000200000	0.0000000000
43	MQA4S05	2239.8185500600	-80.6000000000	98.4999948629	-119.1638093080	180.0000000000	-0.0000200000	0.0000000000
44	D3004	2240.0117000600	-80.6000000000	98.4999947955	-119.3569593180	180.0000000000	-0.0000200000	0.0000000000
45	MBC4S05H	2240.0117000700	-80.6000000000	98.4999947955	-119.3569593180	180.0000000000	-0.0000200000	0.0000000000
46	D3005	2240.2077900700	-80.6000000000	98.4999947270	-119.5530493280	180.0000000000	-0.0000200000	0.0000000000
47	MBC4S05V	2240.2077900800	-80.6000000000	98.4999947270	-119.5530493280	180.0000000000	-0.0000200000	0.0000000000
48	D3014	2241.1185500800	-80.6000000000	98.4999944091	-120.4638093280	180.0000000000	-0.0000200000	0.0000000000
49	MQA4S06	2241.4185500800	-80.6000000000	98.4999943044	-120.7638093280	180.0000000000	-0.0000200000	0.0000000000
50	D3015	2245.6939000800	-80.6000000000	98.4999928120	-125.0391593280	180.0000000000	-0.0000200000	0.0000000000
51	IPM4S07	2245.6939000800	-80.6000000000	98.4999928120	-125.0391593280	180.0000000000	-0.0000200000	0.0000000000
52	D3003	2245.9185500800	-80.6000000000	98.4999927336	-125.2638093280	180.0000000000	-0.0000200000	0.0000000000
53	MQA4S07	2246.2185500800	-80.6000000000	98.4999926289	-125.5638093280	180.0000000000	-0.0000200000	0.0000000000
54	D3004	2246.4117000800	-80.6000000000	98.4999925615	-125.7569593280	180.0000000000	-0.0000200000	0.0000000000
55	MBC4S07H	2246.4117000900	-80.6000000000	98.4999925615	-125.7569593280	180.0000000000	-0.0000200000	0.0000000000
56	D3005	2246.6077900900	-80.6000000000	98.4999924930	-125.9530493380	180.0000000000	-0.0000200000	0.0000000000
57	MBC4S07V	2246.6077901000	-80.6000000000	98.4999924930	-125.9530493380	180.0000000000	-0.0000200000	0.0000000000
58	D3016	2248.8939001000	-80.6000000000	98.4999916950	-128.2391593480	180.0000000000	-0.0000200000	0.0000000000
59	IPM4S08	2248.8939001000	-80.6000000000	98.4999916950	-128.2391593480	180.0000000000	-0.0000200000	0.0000000000
60	D3003	2249.1185501000	-80.6000000000	98.4999916166	-128.4638093480	180.0000000000	-0.0000200000	0.0000000000
61	MQA4S08	2249.4185501000	-80.6000000000	98.4999915119	-128.7638093480	180.0000000000	-0.0000200000	0.0000000000
62	D3004	2249.6117001000	-80.6000000000	98.4999914444	-128.9569593480	180.0000000000	-0.0000200000	0.0000000000
63	MBC4S08H	2249.6117001100	-80.6000000000	98.4999914444	-128.9569593580	180.0000000000	-0.0000200000	0.0000000000
64	D3005	2249.8077901100	-80.6000000000	98.4999913760	-129.1530493580	180.0000000000	-0.0000200000	0.0000000000
65	MBC4S08V	2249.8077901200	-80.6000000000	98.4999913760	-129.1530493680	180.0000000000	-0.0000200000	0.0000000000
66	D3016	2252.0939001200	-80.6000000000	98.4999905780	-131.4391593680	180.0000000000	-0.0000200000	0.0000000000
67	IPM4S09	2252.0939001200	-80.6000000000	98.4999905780	-131.4391593680	180.0000000000	-0.0000200000	0.0000000000
68	D3003	2252.3185501200	-80.6000000000	98.4999904996	-131.6638093680	180.0000000000	-0.0000200000	0.0000000000
69	MQA4S09	2252.6185501200	-80.6000000000	98.4999903949	-131.9638093680	180.0000000000	-0.0000200000	0.0000000000
70	D3004	2252.8117001200	-80.6000000000	98.4999903274	-132.1569593680	180.0000000000	-0.0000200000	0.0000000000
71	MBC4S09H	2252.8117001300	-80.6000000000	98.4999903274	-132.1569593780	180.0000000000	-0.0000200000	0.0000000000
72	D3005	2253.0077901300	-80.6000000000	98.4999902590	-132.3530493780	180.0000000000	-0.0000200000	0.0000000000
73	MBC4S09V	2253.0077901400	-80.6000000000	98.4999902590	-132.3530493880	180.0000000000	-0.0000200000	0.0000000000
74	D3016	2255.2939001400	-80.6000000000	98.4999894610	-134.6391593880	180.0000000000	-0.0000200000	0.0000000000
75	IPM4S10	2255.2939001400	-80.6000000000	98.4999894610	-134.6391593880	180.0000000000	-0.0000200000	0.0000000000
76	D3003	2255.5185501400	-80.6000000000	98.4999893826	-134.8638093880	180.0000000000	-0.0000200000	0.0000000000
77	MQA4S10	2255.8185501400	-80.6000000000	98.4999892778	-135.1638093880	180.0000000000	-0.0000200000	0.0000000000
78	D3004	2256.0117001400	-80.6000000000	98.4999892104	-135.3569593880	180.0000000000	-0.0000200000	0.0000000000
79	MBC4S10H	2256.0117001500	-80.6000000000	98.4999892104	-135.3569593980	180.0000000000	-0.0000200000	0.0000000000
80	D3005	2256.2077901500	-80.6000000000	98.4999891420	-135.5530493980	180.0000000000	-0.0000200000	0.0000000000
81	MBC4S10V	2256.2077901600	-80.6000000000	98.4999891420	-135.5530494080	180.0000000000	-0.0000200000	0.0000000000
82	D3017	2256.9569201600	-80.6000000000	98.4999888805	-136.3021794080	180.0000000000	-0.0000200000	0.0000000000
83	RRF4T01	2257.6569201600	-80.6000264622	98.4999886361	-137.0021794174	-179.9956680800	-0.0000200000	0.0000000015
84	RRR4T01	2257.6569201700	-80.6000264622	98.4999886361	-137.0021794174	-179.9956680800	-0.0000200000	0.0000000015
85	D3025A	2258.7603201700	-80.6001098861	98.4999882510	-138.1055794142	-179.9956680800	-0.0000200000	0.0000000015
86	RRF4T01	2259.4603201700	-80.6001892727	98.4999880066	-138.8055794095	-179.9913361600	-0.0000200000	0.0000000030
87	RRR4T01	2259.4603201800	-80.6001892727	98.4999880066	-138.8055794195	-179.9913361600	-0.0000200000	0.0000000030
88	D3018A	2271.8439201800	-80.6020618283	98.4999836839	-151.1891792780	-179.9913361600	-0.0000200000	0.0000000030
89	IPM4E01	2271.8439201800	-80.6020618283	98.4999836839	-151.1891792780	-179.9913361600	-0.0000200000	0.0000000030
90	D3019	2272.1435701800	-80.6021071391	98.4999835793	-151.4888292745	-179.9913361600	-0.0000200000	0.0000000030
91	MQB4E01	2272.2935701800	-80.6021414555	98.4999835270	-151.6388292705	-179.9824480200	-0.0000200000	0.0000000061
92	D3020	2272.5617201800	-80.6022236005	98.4999834334	-151.9069792579	-179.9824480200	-0.0000200000	0

115	D3025	2304.9538742200	-80.62014222818	98.4999721299	-184.2891262070	-179.9458727200	-0.0000200000	0.0000000189
116	IPM4E03	2304.9538742200	-80.62014222818	98.4999721299	-184.2891262070	-179.9458727200	-0.0000200000	0.0000000189
117	D3019	2305.2535242200	-80.6204253609	98.4999720253	-184.5887760733	-179.9458727200	-0.0000200000	0.0000000189
118	MQB4E03	2305.4035242200	-80.6207218033	98.4999719729	-184.7387757537	-179.8276617200	-0.0000199999	0.0000000602
119	D3020	2305.6716742200	-80.6215283626	98.4999718793	-185.0069245407	-179.8276617200	-0.0000199999	0.0000000602
120	MBM4E03H	2305.6716742200	-80.6215283626	98.4999718793	-185.0069245407	-179.8276617200	-0.0000199999	0.0000000602
121	D3005	2305.8677642200	-80.6221181750	98.4999718109	-185.2030136637	-179.8276617200	-0.0000199999	0.0000000602
122	MBM4E03V	2305.8677642200	-80.6221181750	98.4999718109	-185.2030136637	-179.8276617200	-0.0000199999	0.0000000602
123	D3026	2312.8035642200	-80.6429801312	98.4999693898	-192.1387822986	-179.8276617200	-0.0000199999	0.0000000602
124	MYB4T02	2313.8038042400	-80.6628476095	98.4999690408	-193.1387775879	-177.8959817200	-0.0000199865	0.0000007343
125	D3027	2321.7800242400	-80.9556849053	98.4999662584	-201.1096201912	-177.8959817200	-0.0000199865	0.0000007343
126	IPM4T00A	2321.7800242400	-80.9556849053	98.4999662584	-201.1096201912	-177.8959817200	-0.0000199865	0.0000007343
127	D3028	2322.0594242400	-80.9659427393	98.4999661609	-201.3888318257	-177.8959817200	-0.0000199865	0.0000007343
128	MBF4T03	2324.0598842400	-80.9652181926	98.4999654628	-203.3888332050	177.8544682800	-0.0000199860	-0.0000007488
129	D3029	2333.0308642400	-80.6293640628	98.4999623335	-212.3535241736	177.8544682800	-0.0000199860	-0.0000007488
130	IPM4T00B	2333.0308642400	-80.6293640628	98.4999623335	-212.3535241736	177.8544682800	-0.0000199860	-0.0000007488
131	D3030	2333.3163142400	-80.6186774309	98.4999622340	-212.6387740613	177.8544682800	-0.0000199860	-0.0000007488
132	MBQ4T04	2334.3165442400	-80.5999525251	98.4999618849	-213.6387703224	-179.9999417200	-0.0000200000	0.0000000000
133	D3031	2334.8168802400	-80.5999530340	98.4999617103	-214.1391063224	-179.9999417200	-0.0000200000	0.0000000000
134	IPM4T01	2334.8168802400	-80.5999530340	98.4999617103	-214.1391063224	-179.9999417200	-0.0000200000	0.0000000000
135	D3003	2335.0415302400	-80.5999532625	98.4999616318	-214.3637563224	-179.9999417200	-0.0000200000	0.0000000000
136	MQA4T01	2335.3415302400	-80.5999535677	98.4999615271	-214.6637563224	-179.9999417200	-0.0000200000	0.0000000000
137	D3004	2335.5346802400	-80.5999537641	98.4999614597	-214.8569063224	-179.9999417200	-0.0000200000	0.0000000000
138	MBC4T01H	2335.5346802400	-80.5999537641	98.4999614597	-214.8569063224	-179.9999417200	-0.0000200000	0.0000000000
139	D3005	2335.7307702500	-80.5999539636	98.4999613913	-215.0529963224	-179.9999417200	-0.0000200000	0.0000000000
140	MBC4T01V	2335.7307702500	-80.5999539636	98.4999613913	-215.0529963224	-179.9999417200	-0.0000200000	0.0000000000
141	D3032	2337.0415302600	-80.5999552969	98.4999609337	-216.3637563224	-179.9999417200	-0.0000200000	0.0000000000
142	MQA4T02	2337.3415302600	-80.5999556020	98.4999608290	-216.6637563224	-179.9999417200	-0.0000200000	0.0000000000
143	D3033	2340.8168802600	-80.5999591371	98.4999596159	-220.1391063224	-179.9999417200	-0.0000200000	0.0000000000
144	IPM4T03	2340.8168802600	-80.5999591371	98.4999596159	-220.1391063224	-179.9999417200	-0.0000200000	0.0000000000
145	D3003	2341.0415302600	-80.5999593656	98.4999595374	-220.3637563224	-179.9999417200	-0.0000200000	0.0000000000
146	MQA4T03	2341.3415302600	-80.5999596707	98.4999594327	-220.6637563224	-179.9999417200	-0.0000200000	0.0000000000
147	D3004	2341.5346802600	-80.5999598672	98.4999593653	-220.8569063224	-179.9999417200	-0.0000200000	0.0000000000
148	MBC4T03H	2341.5346802600	-80.5999598672	98.4999593653	-220.8569063224	-179.9999417200	-0.0000200000	0.0000000000
149	D3005	2341.7307702700	-80.5999600667	98.4999592969	-221.0529963224	-179.9999417200	-0.0000200000	0.0000000000
150	MBC4T03V	2341.7307702700	-80.5999600667	98.4999592969	-221.0529963224	-179.9999417200	-0.0000200000	0.0000000000
151	D3034	2345.0415302800	-80.5999634343	98.4999581412	-224.3637563224	-179.9999417200	-0.0000200000	0.0000000000
152	MQA4T04	2345.3415302800	-80.5999637395	98.4999580365	-224.6637563224	-179.9999417200	-0.0000200000	0.0000000000
153	D3004	2345.5346802800	-80.5999639359	98.4999579690	-224.8569063224	-179.9999417200	-0.0000200000	0.0000000000
154	MBC4T04H	2345.5346802800	-80.5999639359	98.4999579690	-224.8569063224	-179.9999417200	-0.0000200000	0.0000000000
155	D3005	2345.7307702900	-80.5999641354	98.4999579006	-225.0529963224	-179.9999417200	-0.0000200000	0.0000000000
156	MBC4T04V	2345.7307702900	-80.5999641354	98.4999579006	-225.0529963224	-179.9999417200	-0.0000200000	0.0000000000
157	D3034	2349.0415303000	-80.5999675030	98.4999567449	-228.3637563224	-179.9999417200	-0.0000200000	0.0000000000
158	MQA4T05	2349.3415303000	-80.5999678082	98.4999566402	-228.6637563224	-179.9999417200	-0.0000200000	0.0000000000
159	D3035	2349.7307703100	-80.5999682041	98.4999565043	-229.0529963224	-179.9999417200	-0.0000200000	0.0000000000
160	MBC4T05V	2349.7307703100	-80.5999682041	98.4999565043	-229.0529963224	-179.9999417200	-0.0000200000	0.0000000000
161	D3036	2350.8168803100	-80.5999693089	98.4999561252	-230.1391063224	-179.9999417200	-0.0000200000	0.0000000000
162	IPM4T06	2350.8168803100	-80.5999693089	98.4999561252	-230.1391063224	-179.9999417200	-0.0000200000	0.0000000000
163	D3003	2351.0415303100	-80.5999695374	98.4999560468	-230.3637563224	-179.9999417200	-0.0000200000	0.0000000000
164	MQA4T06	2351.3415303100	-80.5999698425	98.4999559421	-230.6637563224	-179.9999417200	-0.0000200000	0.0000000000
165	D3004	2351.5346803100	-80.5999700390	98.4999558746	-230.8569063224	-179.9999417200	-0.0000200000	0.0000000000
166	MBC4T06H	2351.5346803100	-80.5999700390	98.4999558746	-230.8569063224	-179.9999417200	-0.0000200000	0.0000000000
167	D3037	2352.9517503200	-80.5999714804	98.4999555800	-232.2739764024	-179.9999417200	-0.0000200000	0.0000000000
168	MAF4T01	2353.9520403200	-80.5999724967	98.5415316912	-233.2731134082	-179.9999417200	4.7656800000	0.0000000000
169	D3010	2358.9698703200	-80.5999775826	98.9583769752	-238.2731074767	-179.9999417200	4.7656800000	0.0000000000
170	MAF4T03	2359.9636032000	-80.5999785989	98.9999532865	-239.2722444825	-179.9999417200	0.0000200000	0.0000000000
171	D3038	2360.3426623200	-80.5999789783	98.9999531563	-239.6452364825	-179.9999417200	-0.0000200000	0.0000000000
172	IPM4T07	2360.3426623200	-80.5999789783	98.9999531563	-239.6452364825	-179.9999417200	-0.0000200000	0.0000000000
173	D3003	2360.5673123200	-80.5999792068	98.9999530779	-239.8698864825	-179.9999417200	-0.0000200000	0.0000000000
174	MQA4T07	2360.5673123200	-80.5999792068	98.9999530779	-239.8698864825	-179.9999417200	-0.0000200000	0.0000000000
175	D3004	2361.0604623200	-80.5999797084	98.9999529057	-240.3630364925	-179.9999417200	-0.0000200000	0.0000000000
176	MBC4T07H	2361.0604623200	-80.5999797084	98.9999529057	-240.3630364925	-179.9999417200	-0.0000200000	0.0000000000
177	D3005	2361.2565523200	-80.5999799079	98.9999528373	-240.5591264925	-179.9999417200	-0.0000200000	0.0000000000
178	MBC4T07V	2361.2565523200	-80.5999799079	98.9999528373	-240.5591264925	-179.9999417200	-0.0000200000	0.0000000000
179	D3008	2362.5926623400	-80.5999812669	98.9999523709	-241.8952365025	-179.9999417200	-0.0000200000	0.0000000000
180	IPM4T08	2362.5926623400	-80.5999812669	98.9999523709	-241.8952365025	-179.9999417200	-0.0000200000	0.0000000000
181	D3003	2362.8173123400	-80.5999814954	98.9999522925	-242.1198865025	-179.9999417200	-0.0000200000	0.0000000000
182	MQA4T08	2363.1173123400	-80.5999818006	98.9999521877	-242.4198865025	-179.9999417200	-0.0000200000	0.0000000000
183	D3004	2363.3104623400	-80.5999819971	98.9999521203	-242.6130365025	-179.9999417200	-0.0000200000	0.0000000000
184	MBC4T08H	2363.3104623400	-80.5999819971	98.9999521203	-242.6130365025	-179.9999417200	-0.0000200000	0.0000000000
185	D3005	2363.5065523500	-80.5999821965	98.9999520519	-242.8091265125	-179.9999417200	-0.0000200000	0.0000000000
186	MBC4T08V	2363.5065523500	-80.5999821965	98.9999520519	-242.8091265125	-179.9999417200	-0.0000200000	0.0000000000
187	D3039	2367.0926623600	-80.5999858442	98.9999508001	-246.3952365225	-179.9999417200	-0.0000200000	0.0000000000
188	IPM4T09	2367.0926623600	-80.5999858442	98.9999508001	-246.3952365225	-179.9999417200	-0.0000200000	0.0000000000
189	D3003	2367.3173123600	-80.5999860727	98.9999507217	-246.6198865225	-179.9999417200	-0.0000200000	0.0000000000
190	MQA4T09	2367.6173123600	-80.5999863779	98.9999506169	-246.9198865225	-179.9999417200	-0.0000200000	0.0000000000
191	D3004	2367.8104623600	-80.5999865744	98.9999505495	-247.1130365225	-179.9999417200	-0.0000200000	0.0000000000
192	D3005	2368.0065523600	-80.5999867738	98.9999504811	-247.3091265225	-179.9999417200	-0.0000200000	0.0000000000
193	MBC4T09D	2368.0065523600	-80.5999867738	98.9999504811	-247.3091265225	-179.9999417200	-0.0000200000	0.0000000000
194	D3040	2368.5196723700	-80.5999872958	98.9999503020	-247.8222465325	-179.9999417200	-0.0000200000	0.0000000000
195	MAV4T04	2370.5222623700	-80.5999893222	99.1759423271	-249.8144880300	-179.9999417200	10.0966800000	0.0000000000
196	D3041	2373.0615923700	-80.599991					

Run: 12-JUN-2007 13:49:00
 XSIF Parser developed by NLC Department,
 Stanford Linear Accelerator Center.

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UTRANSPORT

TITLE
CONVERTED FROM BSY6P.OPT
5
MAW6S01: SBEND, L=1.0007, ANGLE=3.7138, K1=-0.785361, &
  E1=0, E2=3.71381, HGAP=0.01905, &
  HGAPX=0.01905, &
  FINTE=0.5, TILT=90
10
D700: DRIFT, L=2.00421
MAX6S02: SBEND, L=1.00432, ANGLE=3.05992, K1=-1.55369, &
  E1=3.71381, E2=6.77377, HGAP=0.023749, &
  HGAPX=0.023749, &
  FINTE=0.5, TILT=90
15
D701: DRIFT, L=2.77941
MAU6S03: SBEND, L=2.00116, ANGLE=-6.77372, K1=-0, &
  E1=-3.38688, E2=-3.38688, HGAP=0.012954, &
  HGAPX=0.012954, &
  FINTE=0.5, TILT=90
20
D702: DRIFT, L=0.589715
IPM6S01: MONITOR, L=0
D703: DRIFT, L=0.22465
MQA6S01: QUADRUPOLE, L=0.3, K1=-0.69825, TILT=0
D704: DRIFT, L=0.19315
25
MBC6S01H: GKICK, L=1E-08, DXP=0, DYP=0
D705: DRIFT, L=0.19609
MBC6S01V: GKICK, L=1E-08, DXP=0, DYP=0
D706: DRIFT, L=0.50546
ITV6S01: MONITOR, L=0
30
D707: DRIFT, L=3.41065
IPM6S02: MONITOR, L=0
MQA6S02: QUADRUPOLE, L=0.3, K1=1.02082, TILT=0
MBC6S02H: GKICK, L=1E-08, DXP=0, DYP=0
MBC6S02V: GKICK, L=1E-08, DXP=0, DYP=0
35
D708: DRIFT, L=1.15611
IPM6S03: MONITOR, L=0
MQA6S03: QUADRUPOLE, L=0.3, K1=-1.64733, TILT=0
MBC6S03H: GKICK, L=1E-08, DXP=0, DYP=0
D709A: DRIFT, L=1.03995
40
MAB6S04: SBEND, L=1.00016, ANGLE=3.56113, K1=-1.13763, &
  E1=1.78057, E2=1.78057, HGAP=0.012954, &
  HGAPX=0.012954, &
  FINTE=0.5, TILT=90
D710A: DRIFT, L=3.82938
45
MAB6S06: SBEND, L=1.00016, ANGLE=-3.56113, K1=-0, &
  E1=-1.78057, E2=-1.78057, HGAP=0.012954, &
  HGAPX=0.012954, &
  FINTE=0.5, TILT=90
D711: DRIFT, L=1.91357
50
MQA6S04: QUADRUPOLE, L=0.3, K1=-0.914612, TILT=0
D712: DRIFT, L=0.8947
ITV6S04: MONITOR, L=0
D713: DRIFT, L=0.18065
IPM6S05: MONITOR, L=0
55
MQA6S05: QUADRUPOLE, L=0.3, K1=1.13605, TILT=0
MBC6S05H: GKICK, L=1E-08, DXP=0, DYP=0
MBC6S05V: GKICK, L=1E-08, DXP=0, DYP=0
D714: DRIFT, L=0.91076
MQA6S06: QUADRUPOLE, L=0.3, K1=-0.344444, TILT=0
60
D715: DRIFT, L=4.27535
IPM6S07: MONITOR, L=0
MQA6S07: QUADRUPOLE, L=0.3, K1=0.051801, TILT=0
MBC6S07H: GKICK, L=1E-08, DXP=0, DYP=0
MBC6S07V: GKICK, L=1E-08, DXP=0, DYP=0
65
D716: DRIFT, L=2.28611
IPM6S08: MONITOR, L=0
MQA6S08: QUADRUPOLE, L=0.3, K1=-0.315716, TILT=0
MBC6S08H: GKICK, L=1E-08, DXP=0, DYP=0
MBC6S08V: GKICK, L=1E-08, DXP=0, DYP=0
70
IPM6S09: MONITOR, L=0
MQA6S09: QUADRUPOLE, L=0.3, K1=-0.056643, TILT=0
MBC6S09H: GKICK, L=1E-08, DXP=0, DYP=0
MBC6S09V: GKICK, L=1E-08, DXP=0, DYP=0
IPM6S10: MONITOR, L=0
75
MQA6S10: QUADRUPOLE, L=0.3, K1=0.306541, TILT=0
MBC6S10H: GKICK, L=1E-08, DXP=0, DYP=0
MBC6S10V: GKICK, L=1E-08, DXP=0, DYP=0
D3024: DRIFT, L=0.2438
RRF8T01: SBEND, L=0.7, ANGLE=-0.00271947, K1=-0, &
80
  E1=0, E2=0, HGAP=0, &
  HGAPX=0, &
  FINTE=0.5, TILT=0
D3025: DRIFT, L=1.1034
RRF8T02: SBEND, L=0.7, ANGLE=-0.00271947, K1=-0, &
85
  E1=0, E2=0, HGAP=0, &
  HGAPX=0, &
  FINTE=0.5, TILT=0
DRFSEP: DRIFT, L=0.7
DUMMY: MONITOR, L=0
90
D3026A: DRIFT, L=8.77678
IPM8E01: MONITOR, L=0
D3004: DRIFT, L=0.22465
MQC8E01: SBEND, L=0.3, ANGLE=-0.0069306, K1=2.28513E+06, &
95
  E1=0.00572958, E2=-0.0126602, HGAP=0, &
  HGAPX=0, &
  FINTE=0.5, TILT=0
D3008: DRIFT, L=0.19315
MBM8E01H: GKICK, L=1E-08, DXP=0, DYP=0
D3009: DRIFT, L=0.19609
100
MBM8E01V: GKICK, L=1E-08, DXP=0, DYP=0

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D3006: DRIFT, L=0.50546
D3027: DRIFT, L=0.2303
MBY8E01: SBEND, L=1.00029, ANGLE=-2.40609, K1=-0, &
E1=-0, E2=-2.40609, HGAP=0, &
105 HGAPX=0, &
FINT=0.5, TILT=0
D3028: DRIFT, L=5.00442
MBZ8E02: SBEND, L=2.00059, ANGLE=4.81218, K1=-0, &
E1=2.40609, E2=2.40609, HGAP=0, &
110 HGAPX=0, &
FINT=0.5, TILT=0
MBY8E03: SBEND, L=1.00029, ANGLE=-2.40609, K1=-0, &
E1=-2.40609, E2=-0, HGAP=0, &
HGAPX=0, &
115 FINT=0.5, TILT=0
D3029: DRIFT, L=0.900346
IPM8E02: MONITOR, L=0
MQC8E02: SBEND, L=0.3, ANGLE=0.0248074, K1=-168630, &
E1=0.0126602, E2=0.0121472, HGAP=0, &
120 HGAPX=0, &
FINT=0.5, TILT=0
MBM8E02H: GKICK, L=1E-08, DXP=0, DYP=0
MBM8E02V: GKICK, L=1E-08, DXP=0, DYP=0
ITV8E02: MONITOR, L=0
125 D3030: DRIFT, L=0.26931
MYA8T01: SBEND, L=1, ANGLE=-0.0388501, K1=-0, &
E1=-0.0121472, E2=-0.0640562, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
130 D980: DRIFT, L=0.2
D3031A: DRIFT, L=12.6614
IPM8E03: MONITOR, L=0
MQC8E03: SBEND, L=0.3, ANGLE=-0.104618, K1=8982.91, &
E1=-0.0640562, E2=-0.168674, HGAP=0, &
135 HGAPX=0, &
FINT=0.5, TILT=0
MBM8E03H: GKICK, L=1E-08, DXP=0, DYP=0
MBM8E03V: GKICK, L=1E-08, DXP=0, DYP=0
D3032: DRIFT, L=5.93597
140 MYB8T02: SBEND, L=2.00024, ANGLE=-2.32523, K1=-0, &
E1=0.168674, E2=-2.10347, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
D3033A: DRIFT, L=5.05288
145 IPM8T00A: MONITOR, L=0
D3034: DRIFT, L=0.2794
MBP8T03: SBEND, L=2.00046, ANGLE=2.29614, K1=-0, &
E1=2.11671, E2=2.13229, HGAP=0, &
HGAPX=0, &
150 FINT=0.5, TILT=0
D3034A: DRIFT, L=0.92404
D3035A: DRIFT, L=7.97273
IPM8T00B: MONITOR, L=0
D3036: DRIFT, L=0.2834
155 MBQ8T04: SBEND, L=2.00023, ANGLE=-2.09445, K1=-0, &
E1=-2.14553, E2=-0, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
D3037A: DRIFT, L=0.499126
160 IPM8T01: MONITOR, L=0
MQA8T01: QUADRUPOLE, L=0.3, K1=0.770956, TILT=0
MBC8T01H: GKICK, L=1E-08, DXP=0, DYP=0
MBC8T01V: GKICK, L=1E-08, DXP=0, DYP=0
D3038: DRIFT, L=1.31076
165 MQA8T02: QUADRUPOLE, L=0.3, K1=-0.741474, TILT=0
D3039: DRIFT, L=3.47535
IPM8T03: MONITOR, L=0
MQA8T03: QUADRUPOLE, L=0.3, K1=0.0346943, TILT=0
MBC8T03H: GKICK, L=1E-08, DXP=0, DYP=0
170 MBC8T03V: GKICK, L=1E-08, DXP=0, DYP=0
D3040: DRIFT, L=3.31076
MQA8T04: QUADRUPOLE, L=0.3, K1=0.000757614, TILT=0
MBC8T04H: GKICK, L=1E-08, DXP=0, DYP=0
MBC8T04V: GKICK, L=1E-08, DXP=0, DYP=0
175 MQA8T05: QUADRUPOLE, L=0.3, K1=-0.672472, TILT=0
D3005: DRIFT, L=0.38924
MBC8T05V: GKICK, L=1E-08, DXP=0, DYP=0
D3041: DRIFT, L=1.08611
IPM8T06: MONITOR, L=0
180 MQA8T06: QUADRUPOLE, L=0.3, K1=0.845628, TILT=0
MBC8T06H: GKICK, L=1E-08, DXP=0, DYP=0
D3042: DRIFT, L=1.53597
D741: DRIFT, L=0.04656
MAB6R01: SBEND, L=1.00016, ANGLE=-3.56113, K1=-1.42204, &
185 E1=-1.78057, E2=-1.78057, HGAP=0.012954, &
HGAPX=0.012954, &
FINT=0.5, TILT=90
D742: DRIFT, L=3.82939
MAB6R03: SBEND, L=1.00016, ANGLE=3.56113, K1=-1.13763, &
190 E1=1.78057, E2=1.78057, HGAP=0.012954, &
HGAPX=0.012954, &
FINT=0.5, TILT=90
D743B: DRIFT, L=0.85626
IPM6R08: MONITOR, L=0
195 MQA6R08: QUADRUPOLE, L=0.3, K1=-1.63536, TILT=0
MBC6R08H: GKICK, L=1E-08, DXP=0, DYP=0
MBC6R08V: GKICK, L=1E-08, DXP=0, DYP=0
IPM6R09: MONITOR, L=0
MQA6R09: QUADRUPOLE, L=0.3, K1=1.24144, TILT=0
200 MBC6R09H: GKICK, L=1E-08, DXP=0, DYP=0
MBC6R09V: GKICK, L=1E-08, DXP=0, DYP=0
D744A: DRIFT, L=3.91611
IPM6R10: MONITOR, L=0
MQA6R10: QUADRUPOLE, L=0.3, K1=-0.668401, TILT=0

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205  MBC6R10H: GKICK, L=1E-08, DXP=0, DYP=0
MBC6R10V: GKICK, L=1E-08, DXP=0, DYP=0
D745: DRIFT, L=0.62736
MAU6R04: SBEND, L=2.00116, ANGLE=-6.77372, K1=-1.57347, &
      E1=-3.38688, E2=-3.38688, HGAP=0.012954, &
210  HGAPX=0.012954, &
      FINT=0.5, TILT=90
D746: DRIFT, L=2.77941
MAX6R05: SBEND, L=1.00432, ANGLE=3.05992, K1=-0.388423, &
      E1=6.77377, E2=3.71381, HGAP=0.023749, &
215  HGAPX=0.023749, &
      FINT=0.5, TILT=90
D747: DRIFT, L=2.00421
MAW6R06: SBEND, L=1.0007, ANGLE=3.7138, K1=2.0943, &
      E1=3.71381, E2=0, HGAP=0.01905, &
220  HGAPX=0.01905, &
      FINT=0.5, TILT=90
D3049: DRIFT, L=1.22622
IHA2C00: MONITOR, L=0
D3050: DRIFT, L=0.7738

225  BSY6: LINE=(MAW6S01, &
      D700, MAX6S02, D701, MAU6S03, D702, &
      IPM6S01, D703, MQA6S01, D704, MBC6S01H, &
      D705, MBC6S01V, D706, ITV6S01, D707, &
230  IPM6S02, D703, MQA6S02, D704, MBC6S02H, &
      D705, MBC6S02V, D708, IPM6S03, D703, &
      MQA6S03, D704, MBC6S03H, D709A, MAB6S04, &
      D710A, MAB6S06, D711, MQA6S04, D712, &
      ITV6S04, D713, IPM6S05, D703, MQA6S05, &
235  D704, MBC6S05H, D705, MBC6S05V, D714, &
      MQA6S06, D715, IPM6S07, D703, MQA6S07, &
      D704, MBC6S07H, D705, MBC6S07V, D716, &
      IPM6S08, D703, MQA6S08, D704, MBC6S08H, &
      D705, MBC6S08V, D716, IPM6S09, D703, &
240  MQA6S09, D704, MBC6S09H, D705, MBC6S09V, &
      D716, IPM6S10, D703, MQA6S10, D704, &
      MBC6S10H, D705, MBC6S10V, D706, D3024, &
      RRF8T01, D3025, RRF8T02, D3025, RRF8T02, &
      D3025, DRFSEP, DUMMY, D3026A, IPM8E01, &
245  D3004, MQC8E01, D3008, MBM8E01H, D3009, &
      MEM8E01V, D3006, D3027, MBY8E01, D3028, &
      MBZ8E02, D3028, MBY8E03, D3029, IPM8E02, &
      D3004, MQC8E02, D3008, MBM8E02H, D3009, &
      MEM8E02V, D3006, ITV8E02, D3030, MYA8T01, &
250  D980, MYA8T01, D3031A, IPM8E03, D3004, &
      MQC8E03, D3008, MBM8E03H, D3009, MBM8E03V, &
      D3032, MYB8T02, D3033A, IPM8T00A, D3034, &
      MBP8T03, D3034A, MBP8T03, D3035A, IPM8T00B, &
      D3036, MBQ8T04, D3037A, IPM8T01, D3004, &
255  MQA8T01, D3008, MBC8T01H, D3009, MBC8T01V, &
      D3038, MQA8T02, D3039, IPM8T03, D3004, &
      MQA8T03, D3008, MBC8T03H, D3009, MBC8T03V, &
      D3040, MQA8T04, D3008, MBC8T04H, D3009, &
      MBC8T04V, D3040, MQA8T05, D3005, MBC8T05V, &
260  D3041, IPM8T06, D3004, MQA8T06, D3008, &
      MBC8T06H, D3042, D741, MAB6R01, D742, &
      MAB6R03, D743B, IPM6R08, D703, MQA6R08, &
      D704, MBC6R08H, D705, MBC6R08V, D708, &
      IPM6R09, D703, MQA6R09, D704, MBC6R09H, &
265  D705, MBC6R09V, D744A, IPM6R10, D703, &
      MQA6R10, D704, MBC6R10H, D705, MBC6R10V, &
      D745, MAU6R04, D746, MAX6R05, D747, &
      MAW6R06, D3049, IHA2C00, D3050)
USE, BSY6
270  DIMAT
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*****
* DIMAD PROGRAM : LAST MODIFIED ON May 27, 2005 *
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CONVERTED FROM BSY6P.OPT

TOTAL LENGTH OF MACHINE IS: 166.896 METERS

IN THIS RUN THERE ARE :
153 DISTINCT ELEMENTS. ALLOCATED MXELMD : 154
210 ELEMENTS IN MACHINE. ALLOCATED MXPOS_D : 212
41 MATRICES DEFINED. ALLOCATED MAXMAT : 42
945 VALUES IN ELDAT. ALLOCATED MAXDAT : 945
0 LCAVs. ALLOCATED MX_LCAV : 1
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OPERATION LIST ,

MACHINE

1 2 1 0 1 1 1
34.654 1.34607 0 0
28.0149 -0.78771 0 0
0,

ELEMENT	#	BETAX	ALPHAX	BETAY	ALPHAY	ETAX	ETAPX	ETAY	ETAPY	NUX	NUY	ACC.LEN
\$\$INITIAL\$\$	0	34.6540	1.3461	28.0149	-0.7877	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.000
MAM6S01	1	32.1552	1.2891	29.4317	-0.7483	0.0000	0.0000	0.0324	0.0649	0.00477	0.00554	1.001
D700	2	27.3205	1.1232	32.6442	-0.8545	0.0000	0.0000	0.1624	0.0649	0.01554	0.01584	3.005
MAX6S02	3	25.0844	1.1709	34.4000	-0.9941	0.0000	0.0000	0.2543	0.1190	0.02166	0.02060	4.009
D701	4	19.3059	0.9082	40.3726	-1.1547	0.0000	0.0000	0.5849	0.1190	0.04181	0.03248	6.789
MAU6S03	5	15.8091	0.8272	45.2139	-1.2701	0.0000	0.0000	0.7043	0.0006	0.06008	0.03992	8.790
D702	6	14.8706	0.7644	46.7320	-1.3042	0.0000	0.0000	0.7047	0.0006	0.06621	0.04197	9.380
IPM6S01	7	14.8706	0.7644	46.7320	-1.3042	0.0000	0.0000	0.7047	0.0006	0.06621	0.04197	9.380
D703	8	14.5325	0.7404	47.3209	-1.3172	0.0000	0.0000	0.7048	0.0006	0.06864	0.04273	9.604
MQA6S01	9	15.0118	-2.3712	45.1716	8.3307	0.0000	0.0000	0.6829	-0.1455	0.07190	0.04375	9.904
D704	10	15.9442	-2.4564	42.0116	8.0297	0.0000	0.0000	0.6548	-0.1455	0.07389	0.04445	10.097
MBC6S01H	11	15.9442	-2.4564	42.0116	8.0297	0.0000	0.0000	0.6548	-0.1455	0.07389	0.04445	10.097
D705	12	16.9245	-2.5429	38.9225	7.7241	0.0000	0.0000	0.6263	-0.1455	0.07579	0.04523	10.293
MBC6S01V	13	16.9245	-2.5429	38.9225	7.7241	0.0000	0.0000	0.6263	-0.1455	0.07579	0.04523	10.293
D706	14	19.6080	-2.7659	31.5122	6.9363	0.0000	0.0000	0.5528	-0.1455	0.08021	0.04752	10.799
ITV6S01	15	19.6080	-2.7659	31.5122	6.9363	0.0000	0.0000	0.5528	-0.1455	0.08021	0.04752	10.799
D707	16	43.6071	-4.2706	2.3271	1.6207	0.0000	0.0000	0.0565	-0.1455	0.09881	0.11272	14.210
IPM6S02	17	43.6071	-4.2706	2.3271	1.6207	0.0000	0.0000	0.0565	-0.1455	0.09881	0.11272	14.210
D703	18	45.5481	-4.3697	1.6775	1.2706	0.0000	0.0000	0.0238	-0.1455	0.09962	0.13086	14.434
MQA6S02	19	43.9927	9.3947	1.1711	1.0468	0.0000	0.0000	-0.0194	-0.1448	0.10067	0.16572	14.734
D704	20	40.4392	9.0028	1.0289	0.2676	0.0000	0.0000	-0.0474	-0.1448	0.10140	0.19387	14.927
MBC6S02H	21	40.4392	9.0028	1.0289	0.2676	0.0000	0.0000	-0.0474	-0.1448	0.10140	0.19387	14.927
D705	22	36.9865	8.6049	0.9640	0.0634	0.0000	0.0000	-0.0758	-0.1448	0.10220	0.22542	15.123
MBC6S02V	23	36.9865	8.6049	0.9640	0.0634	0.0000	0.0000	-0.0758	-0.1448	0.10220	0.22542	15.123
D708	24	19.8020	6.2592	2.2095	-1.1408	0.0000	0.0000	-0.2433	-0.1448	0.10900	0.37095	16.280
IPM6S03	25	19.8020	6.2592	2.2095	-1.1408	0.0000	0.0000	-0.2433	-0.1448	0.10900	0.37095	16.280
D703	26	17.0921	5.8034	2.7746	-1.3748	0.0000	0.0000	-0.2758	-0.1448	0.11095	0.38541	16.504
MQA6S03	27	16.1092	-2.3666	3.2181	-0.0297	0.0000	0.0000	-0.2980	-0.0013	0.11390	0.40102	16.804
D704	28	17.0387	-2.4458	3.2412	-0.0898	0.0000	0.0000	-0.2983	-0.0013	0.11575	0.41054	16.997
MBC6S03H	29	17.0387	-2.4458	3.2412	-0.0898	0.0000	0.0000	-0.2983	-0.0013	0.11575	0.41054	16.997
D709A	30	22.5688	-2.8719	3.7643	-0.4132	0.0000	0.0000	-0.2996	-0.0013	0.12420	0.45866	18.037
MAB6S04	31	28.7442	-3.3000	4.8816	-0.7030	0.0000	0.0000	-0.2691	0.0622	0.13045	0.49608	19.037
D710A	32	60.0835	-4.8839	14.7548	-1.8752	0.0000	0.0000	-0.0311	0.0622	0.14514	0.57059	22.867
MAB6S06	33	70.0223	-5.0347	18.8093	-2.1812	0.0000	0.0000	0.0000	0.0000	0.14759	0.58014	23.867
D711	34	90.6685	-5.7547	28.2779	-2.7669	0.0000	0.0000	0.0000	0.0000	0.15142	0.59336	25.781
MQA6S04	35	102.0192	-33.1134	27.6107	4.9295	0.0000	0.0000	0.0000	0.0000	0.15192	0.59505	26.081
D712	36	169.8837	-42.7383	19.5233	4.1097	0.0000	0.0000	0.0000	0.0000	0.15300	0.60118	26.975
ITV6S04	37	169.8837	-42.7383	19.5233	4.1097	0.0000	0.0000	0.0000	0.0000	0.15300	0.60118	26.975
D713	38	185.6761	-44.6817	18.0684	3.9441	0.0000	0.0000	0.0000	0.0000	0.15316	0.60271	27.156
IPM6S05	39	185.6761	-44.6817	18.0684	3.9441	0.0000	0.0000	0.0000	0.0000	0.15316	0.60271	27.156
D703	40	206.2945	-47.0984	16.3426	3.7383	0.0000	0.0000	0.0000	0.0000	0.15334	0.60479	27.381
MQA6S05	41	213.2187	24.8100	15.7575	-1.7221	0.0000	0.0000	0.0000	0.0000	0.15357	0.60782	27.681
D704	42	203.7424	24.2515	16.4322	-1.7708	0.0000	0.0000	0.0000	0.0000	0.15372	0.60973	27.874
MBC6S05H	43	203.7424	24.2515	16.4322	-1.7708	0.0000	0.0000	0.0000	0.0000	0.15372	0.60973	27.874
D705	44	194.3427	23.6845	17.1363	-1.8201	0.0000	0.0000	0.0000	0.0000	0.15387	0.61159	28.070
MBC6S05V	45	194.3427	23.6845	17.1363	-1.8201	0.0000	0.0000	0.0000	0.0000	0.15387	0.61159	28.070
D714	46	153.5994	21.0510	20.6604	-2.0493	0.0000	0.0000	0.0000	0.0000	0.15471	0.61930	28.981
MQA6S06	47	145.7801	5.2822	21.2533	0.0935	0.0000	0.0000	0.0000	0.0000	0.15503	0.62156	29.281
D715	48	104.2377	4.4346	21.3211	-0.1094	0.0000	0.0000	0.0000	0.0000	0.16055	0.65375	33.556
IPM6S07	49	104.2377	4.4346	21.3211	-0.1094	0.0000	0.0000	0.0000	0.0000	0.16055	0.65375	33.556
D703	50	102.2553	4.3900	21.3727	-0.1201	0.0000	0.0000	0.0000	0.0000	0.16090	0.65542	33.781
MQA6S07	51	99.1713	5.8740	21.5490	-0.4686	0.0000	0.0000	0.0000	0.0000	0.16137	0.65765	34.081
D704	52	96.9155	5.8049	21.7321	-0.4796	0.0000	0.0000	0.0000	0.0000	0.16169	0.65907	34.274
MBC6S07H	53	96.9155	5.8049	21.7321	-0.4796	0.0000	0.0000	0.0000	0.0000	0.16169	0.65907	34.274
D705	54	94.6527	5.7347	21.9224	-0.4907	0.0000	0.0000	0.0000	0.0000	0.16201	0.66050	34.470
MBC6S07V	55	94.6527	5.7347	21.9224	-0.4907	0.0000	0.0000	0.0000	0.0000	0.16201	0.66050	34.470
D716	56	70.3036	4.9162	24.4616	-0.6200	0.0000	0.0000	0.0000	0.0000	0.16647	0.67624	36.756
IPM6S08	57	70.3036	4.9162	24.4616	-0.6200	0.0000	0.0000	0.0000	0.0000	0.16647	0.67624	36.756
D703	58	68.1129	4.8358	24.7430	-0.6328	0.0000	0.0000	0.0000	0.0000	0.16699	0.67769	36.981
MQA6S08	59	67.1424	-1.5704	24.4241	1.6856	0.0000	0.0000	0.0000	0.0000	0.16770	0.67962	37.281
D704	60	67.7510	-1.5804	23.7789	1.6552	0.0000	0.0000	0.0000	0.0000	0.16816	0.68090	37.474
MBC6S08H	61	67.7510	-1.5804	23.7789	1.6552	0.0000	0.0000	0.0000	0.0000	0.16816	0.68090	37.474
D705	62	68.3728	-1.5905	23.1358	1.6244	0.0000	0.0000	0.0000	0.0000	0.16861	0.68223	37.670
MBC6S08V	63	68.3728	-1.5905	23.1358	1.6244	0.0000	0.0000	0.0000	0.0000	0.16861	0.68223	37.670
D716	64	75.9148	-1.7085	16.5307	1.2648	0.0000	0.0000	0.0000	0.0000	0.17367	0.70088	39.956
IPM6S09	65	75.9148	-1.7085	16.5307	1.2648	0.0000	0.0000	0.0000	0.0000	0.17367	0.70088	39.956
D703	66	76.6851	-1.7201	15.9704	1.2295	0.0000	0.0000	0.0000	0.0000	0.17413	0.70308	40.181
MQA6S09	67	78.1169	-3.0608	15.1680	1.4404	0.0000	0.0000	0.0000	0.0000	0.17475	0.70614	40.481
D704	68	79.3043	-3.0864	14.6192	1.4013	0.0000	0.0000	0.0000	0.0000	0.17514	0.70821	40.674
MBC6S09H	69	79.3043	-3.0864	14.6192	1.4013	0.0000	0.0000	0.0000	0.0000	0.17514	0.70821	40.674
D705	70	80.5198	-3.1125	14.0774	1.3615	0.0000	0.0000	0.0000	0.0000	0.17553	0.71038	40.870
MBC6S09V	71	80.5198	-3.1125	14.0774	1.3615	0.0000	0.0000	0.0000	0.0000	0.17553	0.71038	40.870
D716	72	95.4443	-3.4159	8.9117	0.8981	0.0000	0.0000	0.0000	0.0000	0.17968	0.74310	43.156
IPM6S10	73	95.4443	-3.4159	8.9117	0.8981	0.0000	0.0000	0.0000	0.0000	0.17968	0.74310	43.156
D703	74	96.9858	-3.4457	8.5184	0.8525	0.0000	0.0000	0.0000	0.0000	0.18005	0.74720	43.381
MQA6S10	75	96.3760	5.4595	8.2530	0.0402	0.0000	0.0000	0.0000	0.0000	0.18055	0.75292	43.681
D704	76	94.2789	5.3977	8.2420	0.0168	0.0000	0.0000	0.0000	0.0000	0.18087	0.75665	43.874
MBC6S10H	77	94.2789	5.3977	8.2420	0.0168	0.0000	0.0000	0.0000	0.0000	0.18087	0.75665	43.874
D705	78	92.1743	5.3351	8.2401	-0.0070	0.0000	0.0000	0.0000	0.0000	0.18120	0.76044	44.070
MBC6S10V	79	92.1743	5.3351	8.2401	-0.0070	0.0000	0.0000	0.0000	0.0000	0.18120	0.76044	44.070
D706	80	86.8627	5.1735	8.2782	-0.0684	0.0000	0.0000	0.0000	0.0000	0.18210	0.77018	44.575
D3024	81	84.3591	5.0956	8.3187	-0.0980	0.0000	0.0000	0.0000	0.0000	0.18256	0.77486	44.819
RRF8T01	82	77.3819	4.8718</									

MQC8E01	93	3.3282	-0.1965	38.8490	2.4099	-0.0019	-0.0005	-0.0001	0.0000	0.37485	0.93452	60.231
D3008	94	3.4157	-0.2567	37.9246	2.3761	-0.0020	-0.0005	-0.0001	0.0000	0.38397	0.93532	60.424
MM8E01H	95	3.4157	-0.2567	37.9246	2.3761	-0.0020	-0.0005	-0.0001	0.0000	0.38397	0.93532	60.424
D3009	96	3.5284	-0.3179	36.9994	2.3417	-0.0021	-0.0005	-0.0001	0.0000	0.39297	0.93616	60.620
MM8E01V	97	3.5284	-0.3179	36.9994	2.3417	-0.0021	-0.0005	-0.0001	0.0000	0.39297	0.93616	60.620
D3006	98	3.9295	-0.4757	34.6769	2.2531	-0.0024	-0.0005	-0.0001	0.0000	0.41464	0.93840	61.125
D3027	99	4.1651	-0.5475	33.6484	2.2128	-0.0025	-0.0005	-0.0001	0.0000	0.42371	0.93948	61.356
MBY8E01	100	5.5639	-0.8599	29.3970	2.0893	-0.0239	-0.0425	-0.0001	0.0000	0.45701	0.94454	62.356
D3028	101	21.9992	-2.4243	13.0560	1.1760	-0.2366	-0.0425	0.0000	0.0000	0.53171	0.98565	67.360
MBZ8E02	102	32.9362	-3.0490	9.0058	0.8414	-0.2375	0.0415	0.0000	0.0000	0.54354	1.01518	69.361
D3028	103	71.2820	-4.6134	5.3342	-0.1077	-0.0296	0.0415	0.0000	0.0000	0.56001	1.14358	74.365
MBY8E03	104	80.9554	-4.9258	5.7202	-0.2876	-0.0091	-0.0005	0.0000	0.0000	0.56210	1.17256	75.366
D3029	105	90.0782	-5.2067	6.3915	-0.4580	-0.0095	-0.0005	0.0000	0.0000	0.56378	1.19635	76.266
IPM8E02	106	90.0782	-5.2067	6.3915	-0.4580	-0.0095	-0.0005	0.0000	0.0000	0.56378	1.19635	76.266
D3004	107	92.4333	-5.2768	6.6069	-0.5006	-0.0096	-0.0005	0.0000	0.0000	0.56417	1.20185	76.491
MQC8E02	108	92.6695	4.4977	7.1419	-1.3015	-0.0096	0.0010	0.0000	0.0000	0.56468	1.20884	76.791
D3008	109	90.9406	4.4534	7.6587	-1.3743	-0.0094	0.0010	0.0000	0.0000	0.56502	1.21300	76.984
MM8E02H	110	90.9406	4.4534	7.6587	-1.3743	-0.0094	0.0010	0.0000	0.0000	0.56502	1.21300	76.984
D3009	111	89.2029	4.4085	8.2122	-1.4483	-0.0092	0.0010	0.0000	0.0000	0.56537	1.21693	77.180
MM8E02V	112	89.2029	4.4085	8.2122	-1.4483	-0.0092	0.0010	0.0000	0.0000	0.56537	1.21693	77.180
D3006	113	84.8048	4.2927	9.7727	-1.6390	-0.0087	0.0010	0.0000	0.0000	0.56629	1.22592	77.685
ITV8E02	114	84.8048	4.2927	9.7727	-1.6390	-0.0087	0.0010	0.0000	0.0000	0.56629	1.22592	77.685
D3030	115	82.5093	4.2310	10.6828	-1.7405	-0.0084	0.0010	0.0000	0.0000	0.56680	1.23011	77.955
MYA8T01	116	74.2763	4.0019	14.5411	-2.1177	-0.0078	0.0003	0.0000	0.0000	0.56884	1.24290	78.955
D980	117	72.6847	3.9561	15.4032	-2.1931	-0.0077	0.0003	0.0000	0.0000	0.56927	1.24502	79.155
MYA8T01	118	65.0016	3.7270	20.1667	-2.5703	-0.0078	-0.0004	0.0001	0.0000	0.57159	1.25406	80.155
D3031A	119	7.3477	0.8265	145.7208	-7.3460	-0.0126	-0.0004	0.0002	0.0000	0.66993	1.29158	92.816
IPM8E03	120	7.3477	0.8265	145.7208	-7.3460	-0.0126	-0.0004	0.0002	0.0000	0.66993	1.29158	92.816
D3004	121	6.9879	0.7751	149.0404	-7.4307	-0.0127	-0.0004	0.0002	0.0000	0.67492	1.29182	93.041
MQC8E03	122	6.7457	0.0402	149.0240	7.4862	-0.0133	-0.0035	0.0002	0.0000	0.68192	1.29214	93.341
D3008	123	6.7357	0.0115	146.1464	7.4122	-0.0139	-0.0035	0.0002	0.0000	0.68648	1.29235	93.534
MM8E03H	124	6.7357	0.0115	146.1464	7.4122	-0.0139	-0.0035	0.0002	0.0000	0.68648	1.29235	93.534
D3009	125	6.7369	-0.0176	143.2542	7.3372	-0.0146	-0.0035	0.0002	0.0000	0.69111	1.29256	93.730
MM8E03V	126	6.7369	-0.0176	143.2542	7.3372	-0.0146	-0.0035	0.0002	0.0000	0.69111	1.29256	93.730
D3032	127	12.1781	-0.8990	69.6349	5.0650	-0.0354	-0.0035	0.0001	0.0000	0.80485	1.30203	99.666
MYB8T02	128	16.3410	-1.1940	50.9180	4.3344	-0.0829	-0.0441	0.0001	0.0000	0.82749	1.30737	101.666
D3033A	129	32.1965	-1.9440	17.0374	2.3708	-0.3057	-0.0441	0.0001	0.0000	0.86284	1.33481	106.719
IPM8T00A	130	32.1965	-1.9440	17.0374	2.3708	-0.3057	-0.0441	0.0001	0.0000	0.86284	1.33481	106.719
D3034	131	33.2944	-1.9854	15.7429	2.2622	-0.3180	-0.0441	0.0001	0.0000	0.86419	1.33753	106.998
MBP8T03	132	41.8800	-2.3107	8.2138	1.4959	-0.3663	-0.0442	0.0000	0.0000	0.87272	1.36567	108.999
D3034A	133	46.2796	-2.4506	5.7858	1.1317	-0.3703	-0.0442	0.0000	0.0000	0.87606	1.38707	109.923
MBP8T03	134	56.7564	-2.7919	2.8251	0.3462	-0.3389	0.0356	0.0000	0.0000	0.88228	1.46945	111.923
D3035A	135	111.1232	-4.0272	22.5014	-2.8141	-0.0552	0.0356	0.0000	0.0000	0.89828	1.71815	119.896
IPM8T00B	136	111.1232	-4.0272	22.5014	-2.8141	-0.0552	0.0356	0.0000	0.0000	0.89828	1.71815	119.896
D3036	137	113.4183	-4.0712	24.1283	-2.9264	-0.0451	0.0356	0.0000	0.0000	0.89868	1.72008	120.180
MBQ8T04	138	130.4914	-4.3829	37.3392	-3.6948	-0.0105	-0.0010	-0.0001	0.0000	0.90130	1.73070	122.180
D3037A	139	134.9052	-4.4602	41.1253	-3.8906	-0.0110	-0.0010	-0.0001	0.0000	0.90190	1.73272	122.679
IPM8T01	140	134.9052	-4.4602	41.1253	-3.8906	-0.0110	-0.0010	-0.0001	0.0000	0.90190	1.73272	122.679
D3004	141	136.9170	-4.4950	42.8932	-3.9788	-0.0112	-0.0010	-0.0001	0.0000	0.90216	1.73358	122.904
MQA8T01	142	130.2222	26.2926	48.4742	-15.0530	-0.0111	0.0016	-0.0001	0.0000	0.90251	1.73464	123.204
D3008	143	120.2637	25.2657	54.4643	-15.9599	-0.0108	0.0016	-0.0001	0.0000	0.90276	1.73523	123.397
MM8E01H	144	120.2637	25.2657	54.4643	-15.9599	-0.0108	0.0016	-0.0001	0.0000	0.90276	1.73523	123.397
D3009	145	110.5594	24.2233	60.9040	-16.8805	-0.0105	0.0016	-0.0001	0.0000	0.90303	1.73578	123.593
MM8E01V	146	110.5594	24.2233	60.9040	-16.8805	-0.0105	0.0016	-0.0001	0.0000	0.90303	1.73578	123.593
D3038	147	56.1915	17.2549	113.2233	-23.0347	-0.0084	0.0016	-0.0001	0.0000	0.90568	1.73829	124.904
MQA8T02	148	49.6950	4.8798	119.4615	2.7052	-0.0081	-0.0002	-0.0001	0.0000	0.90659	1.73869	125.204
D3039	149	21.8076	3.1446	101.4997	2.4632	-0.0089	-0.0002	-0.0001	0.0000	0.92342	1.74372	128.679
IPM8T03	150	21.8076	3.1446	101.4997	2.4632	-0.0089	-0.0002	-0.0001	0.0000	0.92342	1.74372	128.679
D3004	151	20.4199	3.0324	100.3965	2.4475	-0.0089	-0.0002	-0.0001	0.0000	0.92512	1.74407	128.904
MQA8T03	152	18.5855	3.0761	99.2450	1.3948	-0.0090	-0.0001	-0.0001	0.0000	0.92757	1.74455	129.204
D3008	153	17.4182	2.9674	98.7073	1.3890	-0.0090	-0.0001	-0.0001	0.0000	0.92928	1.74486	129.397
MM8E03H	154	17.4182	2.9674	98.7073	1.3890	-0.0090	-0.0001	-0.0001	0.0000	0.92928	1.74486	129.397
D3009	155	16.2761	2.8570	98.1637	1.3832	-0.0090	-0.0001	-0.0001	0.0000	0.93113	1.74518	129.593
MM8E03V	156	16.2761	2.8570	98.1637	1.3832	-0.0090	-0.0001	-0.0001	0.0000	0.93113	1.74518	129.593
D3040	157	3.5289	0.9932	89.3299	1.2850	-0.0094	-0.0001	-0.0001	0.0000	1.00308	1.75081	132.904
MQA8T04	158	2.9834	0.8250	88.5676	1.2559	-0.0095	-0.0001	-0.0001	0.0000	1.01782	1.75134	133.204
D3008	159	2.6857	0.7162	88.0835	1.2503	-0.0095	-0.0001	-0.0001	0.0000	1.02869	1.75169	133.397
MM8E04H	160	2.6857	0.7162	88.0835	1.2503	-0.0095	-0.0001	-0.0001	0.0000	1.02869	1.75169	133.397
D3009	161	2.4265	0.6058	87.5943	1.2446	-0.0095	-0.0001	-0.0001	0.0000	1.04093	1.75205	133.593
MM8E04V	162	2.4265	0.6058	87.5943	1.2446	-0.0095	-0.0001	-0.0001	0.0000	1.04093	1.75205	133.593
D3040	163	4.5903	-1.2594	79.6721	1.1483	-0.0099	-0.0001	-0.0001	0.0000	1.27080	1.75836	136.904
MQA8T05	164	5.7120	-2.5547	74.2877	16.4361	-0.0102	-0.0021	-0.0001	0.0000	1.28022	1.75897	137.204
D3005	165	7.9004	-3.0676	62.0455	15.0154	-0.0111	-0.0021	-0.0001	0.0000	1.28945	1.75988	137.593
MM8E05V	166	7.9004	-3.0676	62.0455	15.0154	-0.0111	-0.0021	-0.0001	0.0000	1.28945	1.75988	137.593
D3041	167	16.1182	-4.4987	33.7343	11.0512	-0.0134	-0.0021	-0.0001	0.0000	1.30479	1.76366	138.679
IPM8T06	168	16.1182	-4.4987	33.7343	11.0512	-0.0134	-0.0021	-0.0001	0.0000	1.30479	1.76366	138.679
D3004	169	18.2059	-4.7947	28.9532	10.2312	-0.0139	-0.0021	-0.0001	0.0000	1.30688	1.76481	138.904
MQA8T06	170	19.7038	-0.0709	25.0952	2.9536	-0.0140	0.0014	-0.0001	0.0000	1.30937	1.76660	139.204
D3008	171	19.7331	-0.0807	23.9686	2.8787	-0.0137	0.0014	-0.0001	0.0000	1.31093	1.76785	139.397
MM8E06H	172	19.7331	-0.0807	23.9686	2.8787	-0.0137	0.0014	-0.0001	0.0000	1.31093	1.76785	139.397
D3042	173	20.1015	-0.1591	16.0395	2.2836	-0.0115	0.0014	0.0000	0.0000	1.32321	1.78033	140.933
D741	174	20.1164	-0.1615	15.8277	2.2656	-0.0115	0.0014	0.0000	0.0000	1.32358	1.78080	140.979
MAB6R01	175	20.5258	-0.2479	11.6149	1.9415	-0.0100	0.0014	-0.0311	-0.0621			

MQA6R10	197	22.6039	1.0050	36.8149	1.0323	0.0034	0.0014	0.6958	0.0059	1.39663	2.31853	155.090
D704	198	22.2190	0.9878	36.4182	1.0214	0.0036	0.0014	0.6969	0.0059	1.39800	2.31937	155.283
MBC6R10H	199	22.2190	0.9878	36.4182	1.0214	0.0036	0.0014	0.6969	0.0059	1.39800	2.31937	155.283
D705	200	21.8350	0.9704	36.0198	1.0104	0.0039	0.0014	0.6981	0.0059	1.39942	2.32024	155.479
MBC6R10V	201	21.8350	0.9704	36.0198	1.0104	0.0039	0.0014	0.6981	0.0059	1.39942	2.32024	155.479
D745	202	20.6524	0.9146	34.7740	0.9752	0.0047	0.0014	0.7018	0.0059	1.40412	2.32306	156.106
MAU6R04	203	17.4914	0.6657	30.3997	1.1997	0.0075	0.0014	0.5879	-0.1198	1.42097	2.33280	158.108
D746	204	14.4283	0.4364	24.3506	0.9767	0.0114	0.0014	0.2550	-0.1198	1.44896	2.34909	160.887
MAX6R05	205	13.4752	0.4684	22.6751	0.7649	0.0127	0.0013	0.1627	-0.0650	1.46043	2.35589	161.891
D747	206	11.9613	0.2870	19.8899	0.6248	0.0153	0.0013	0.0324	-0.0650	1.48566	2.37093	163.896
MAW6R06	207	11.2801	0.3415	18.9603	0.3892	0.0164	0.0011	0.0000	0.0000	1.49937	2.37914	164.896
D3049	208	10.5914	0.2201	18.0970	0.3148	0.0178	0.0011	0.0000	0.0000	1.51726	2.38968	166.122
IHA2C00	209	10.5914	0.2201	18.0970	0.3148	0.0178	0.0011	0.0000	0.0000	1.51726	2.38968	166.122
D3050	210	10.3100	0.1435	17.6463	0.2678	0.0186	0.0011	0.0000	0.0000	1.52906	2.39658	166.896

MAXIMUM LATTICE FUNCTIONS :
 BETA X = 0.2132186686E+03 BETA Y = 0.1490403547E+03
 ETA X = 0.1860603073E-01 ETA Y = 0.7047885709E+00

1
 OPERATION LIST ,

MATRIX

1 -1,

AFTER :D3050 ELEMENT #: 210

 * TRANSFORMATION MATRIX *

FIRST ORDER MATRIX

- -0.6696984E+00 -0.3432234E+01 0.5160292E-15 -0.2951200E-14 0.0000000E+00 0.1860603E-01
 - -0.5110031E-01 -0.1755101E+01 0.3518313E-15 -0.2668380E-14 0.0000000E+00 0.1086763E-02
 - -0.1162164E-14 -0.4187342E-16 -0.1010157E+01 0.1345264E+02 0.0000000E+00 -0.8549221E-06
 - 0.2259275E-15 0.2995254E-15 0.1632366E-01 -0.1207333E+01 0.0000000E+00 -0.8361460E-07
 - 0.2229703E-03 0.2892543E-01 0.9841937E-07 -0.2157012E-05 0.1000000E+01 -0.2144735E+00
 - 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.1000000E+01

HORIZONTAL MOVEMENT ANALYSIS

COMPACTION FACTOR = -0.1285022E-02 GAMMA TR = -0.2789617E+02

MOVEMENT IS UNSTABLE

HALF-TRACE = -0.12123996162359E+01
 EIGENVALUE1 = -0.52689773480237E+00
 WITH EIGENVECTOR :
 X = 0.99913560283486E+00 XP = -0.41569786477923E-01
 EIGENVALUE2 = -0.18979014976693E+01
 WITH EIGENVECTOR :
 X = 0.94153274431773E+00 XP = 0.33692149141533E+00

VERTICAL MOVEMENT ANALYSIS

MOVEMENT IS UNSTABLE

HALF-TRACE = -0.11087451337831E+01
 EIGENVALUE1 = -0.62987587011320E+00
 WITH EIGENVECTOR :
 Y = -0.99960069414591E+00 YP = -0.28256897618359E-01
 EIGENVALUE2 = -0.15876143974531E+01
 WITH EIGENVECTOR :
 Y = -0.99907998541429E+00 YP = 0.42885693938362E-01

1
 OPERATION LIST ,

HARDWARE

6.66211 3524.31 -80.6 100 -91.5251 -180 0.0 0 1 0 ;

VALUES ARE FOR ENERGY : 0.666E+01 GEV

THE LENGTHS ARE MEASURED IN METERS ,THE ANGLES IN DEGREES

THE SXYZ COORDINATES,AZIMUTH,ELEVATION AND ROLL ANGLES ARE :

#	NAME	S	X	Y	Z	THETA	PHI	PSI
1	MAW6S01	3525.3107000000	-80.6000000000	100.0324203520	-92.5250994274	180.0000000000	3.7138000000	0.0000000000
2	D700	3527.3149100000	-80.6000000000	100.1622383644	-94.5251006793	180.0000000000	3.7138000000	0.0000000000
3	MAX6S02	3528.3192300000	-80.6000000000	100.2540154416	-95.5250986367	180.0000000000	6.7737200000	0.0000000000
4	D701	3531.0986400000	-80.6000000000	100.5818427094	-98.2851075552	180.0000000000	6.7737200000	0.0000000000
5	MAU6S03	3533.0998000000	-80.6000000000	100.6999972806	-100.2816091607	180.0000000000	0.0000000000	0.0000000000
6	D702	3533.6895150000	-80.6000000000	100.6999972806	-100.8713241607	180.0000000000	0.0000000000	0.0000000000
7	IPM6S01	3533.6895150000	-80.6000000000	100.6999972806	-100.8713241607	180.0000000000	0.0000000000	0.0000000000
8	D703	3533.9141650000	-80.6000000000	100.6999972806	-101.0959741607	180.0000000000	0.0000000000	0.0000000000
9	MQA6S01	3534.2141650000	-80.6000000000	100.6999972806	-101.3959741607	180.0000000000	0.0000000000	0.0000000000

10	D704	3534.4073150000	-80.6000000000	100.6999972806	-101.5891241607	180.0000000000	0.0000000000	0.0000000000
11	MBC6S01H	3534.4073150100	-80.6000000000	100.6999972806	-101.5891241707	180.0000000000	0.0000000000	0.0000000000
12	D705	3534.6034050100	-80.6000000000	100.6999972806	-101.7852141707	180.0000000000	0.0000000000	0.0000000000
13	MBC6S01V	3534.6034050200	-80.6000000000	100.6999972806	-101.7852141807	180.0000000000	0.0000000000	0.0000000000
14	D706	3535.1088650200	-80.6000000000	100.6999972806	-102.2906741807	180.0000000000	0.0000000000	0.0000000000
15	ITV6S01	3535.1088650200	-80.6000000000	100.6999972806	-102.2906741807	180.0000000000	0.0000000000	0.0000000000
16	D707	3538.5195150200	-80.6000000000	100.6999972806	-105.7013241807	180.0000000000	0.0000000000	0.0000000000
17	IPM6S02	3538.5195150200	-80.6000000000	100.6999972806	-105.7013241807	180.0000000000	0.0000000000	0.0000000000
18	D703	3538.7441650200	-80.6000000000	100.6999972806	-105.9259741807	180.0000000000	0.0000000000	0.0000000000
19	MQA6S02	3539.0441650200	-80.6000000000	100.6999972806	-106.2259741807	180.0000000000	0.0000000000	0.0000000000
20	D704	3539.2373150200	-80.6000000000	100.6999972806	-106.4191241807	180.0000000000	0.0000000000	0.0000000000
21	MBC6S02H	3539.2373150300	-80.6000000000	100.6999972806	-106.4191241907	180.0000000000	0.0000000000	0.0000000000
22	D705	3539.4334050300	-80.6000000000	100.6999972806	-106.6152141907	180.0000000000	0.0000000000	0.0000000000
23	MBC6S02V	3539.4334050400	-80.6000000000	100.6999972806	-106.6152142007	180.0000000000	0.0000000000	0.0000000000
24	D708	3540.5895150400	-80.6000000000	100.6999972806	-107.7713242007	180.0000000000	0.0000000000	0.0000000000
25	IPM6S03	3540.5895150400	-80.6000000000	100.6999972806	-107.7713242007	180.0000000000	0.0000000000	0.0000000000
26	D703	3540.8141650400	-80.6000000000	100.6999972806	-107.9959742007	180.0000000000	0.0000000000	0.0000000000
27	MQA6S03	3541.1141650400	-80.6000000000	100.6999972806	-108.2959742007	180.0000000000	0.0000000000	0.0000000000
28	D704	3541.3073150400	-80.6000000000	100.6999972806	-108.4891242007	180.0000000000	0.0000000000	0.0000000000
29	MBC6S03H	3541.3073150500	-80.6000000000	100.6999972806	-108.4891242107	180.0000000000	0.0000000000	0.0000000000
30	D709A	3542.3472650500	-80.6000000000	100.6999972806	-109.5290742107	180.0000000000	0.0000000000	0.0000000000
31	MAB6S04	3543.3474250500	-80.6000000000	100.7310689701	-110.5285903903	180.0000000000	3.5611300000	0.0000000000
32	D710A	3547.1768050500	-80.6000000000	100.9689249133	-114.3505762268	180.0000000000	3.5611300000	0.0000000000
33	MAB6S06	3548.1769650500	-80.6000000000	100.9999966028	-115.3509240664	180.0000000000	0.0000000000	0.0000000000
34	D711	3550.0905350500	-80.6000000000	100.9999966028	-117.2636624064	180.0000000000	0.0000000000	0.0000000000
35	MQA6S04	3550.3905350500	-80.6000000000	100.9999966028	-117.5636624064	180.0000000000	0.0000000000	0.0000000000
36	D712	3551.2852350500	-80.6000000000	100.9999966028	-118.4583624064	180.0000000000	0.0000000000	0.0000000000
37	ITV6S04	3551.2852350500	-80.6000000000	100.9999966028	-118.4583624064	180.0000000000	0.0000000000	0.0000000000
38	D713	3551.4658850500	-80.6000000000	100.9999966028	-118.6390124064	180.0000000000	0.0000000000	0.0000000000
39	IPM6S05	3551.4658850500	-80.6000000000	100.9999966028	-118.6390124064	180.0000000000	0.0000000000	0.0000000000
40	D703	3551.6905350500	-80.6000000000	100.9999966028	-118.8636624064	180.0000000000	0.0000000000	0.0000000000
41	MQA6S05	3551.9905350500	-80.6000000000	100.9999966028	-119.1636624064	180.0000000000	0.0000000000	0.0000000000
42	D704	3552.1836850500	-80.6000000000	100.9999966028	-119.3568124064	180.0000000000	0.0000000000	0.0000000000
43	MBC6S05H	3552.1836850600	-80.6000000000	100.9999966028	-119.3568124164	180.0000000000	0.0000000000	0.0000000000
44	D705	3552.3797750600	-80.6000000000	100.9999966028	-119.5529024164	180.0000000000	0.0000000000	0.0000000000
45	MBC6S05V	3552.3797750700	-80.6000000000	100.9999966028	-119.5529024264	180.0000000000	0.0000000000	0.0000000000
46	D714	3553.2905350700	-80.6000000000	100.9999966028	-120.4636624264	180.0000000000	0.0000000000	0.0000000000
47	MQA6S06	3553.5905350700	-80.6000000000	100.9999966028	-120.7636624264	180.0000000000	0.0000000000	0.0000000000
48	D715	3557.8658850700	-80.6000000000	100.9999966028	-125.0390124264	180.0000000000	0.0000000000	0.0000000000
49	IPM6S07	3557.8658850700	-80.6000000000	100.9999966028	-125.0390124264	180.0000000000	0.0000000000	0.0000000000
50	D703	3558.0905350700	-80.6000000000	100.9999966028	-125.2636624264	180.0000000000	0.0000000000	0.0000000000
51	MQA6S07	3558.3905350700	-80.6000000000	100.9999966028	-125.5636624264	180.0000000000	0.0000000000	0.0000000000
52	D704	3558.5836850700	-80.6000000000	100.9999966028	-125.7568124264	180.0000000000	0.0000000000	0.0000000000
53	MBC6S07H	3558.5836850800	-80.6000000000	100.9999966028	-125.7568124364	180.0000000000	0.0000000000	0.0000000000
54	D705	3558.7797750800	-80.6000000000	100.9999966028	-125.9529024364	180.0000000000	0.0000000000	0.0000000000
55	MBC6S07V	3558.7797750900	-80.6000000000	100.9999966028	-125.9529024464	180.0000000000	0.0000000000	0.0000000000
56	D716	3561.0658850900	-80.6000000000	100.9999966028	-128.2390124464	180.0000000000	0.0000000000	0.0000000000
57	IPM6S08	3561.0658850900	-80.6000000000	100.9999966028	-128.2390124464	180.0000000000	0.0000000000	0.0000000000
58	D703	3561.2905350900	-80.6000000000	100.9999966028	-128.4636624464	180.0000000000	0.0000000000	0.0000000000
59	MQA6S08	3561.5905350900	-80.6000000000	100.9999966028	-128.7636624464	180.0000000000	0.0000000000	0.0000000000
60	D704	3561.7836850900	-80.6000000000	100.9999966028	-128.9568124464	180.0000000000	0.0000000000	0.0000000000
61	MBC6S08H	3561.7836851000	-80.6000000000	100.9999966028	-128.9568124564	180.0000000000	0.0000000000	0.0000000000
62	D705	3561.9797751000	-80.6000000000	100.9999966028	-129.1529024564	180.0000000000	0.0000000000	0.0000000000
63	MBC6S08V	3561.9797751100	-80.6000000000	100.9999966028	-129.1529024664	180.0000000000	0.0000000000	0.0000000000
64	D716	3564.2658851100	-80.6000000000	100.9999966028	-131.4390124664	180.0000000000	0.0000000000	0.0000000000
65	IPM6S09	3564.2658851100	-80.6000000000	100.9999966028	-131.4390124664	180.0000000000	0.0000000000	0.0000000000
66	D703	3564.4905351100	-80.6000000000	100.9999966028	-131.6636624664	180.0000000000	0.0000000000	0.0000000000
67	MQA6S09	3564.7905351100	-80.6000000000	100.9999966028	-131.9636624664	180.0000000000	0.0000000000	0.0000000000
68	D704	3564.9836851100	-80.6000000000	100.9999966028	-132.1568124664	180.0000000000	0.0000000000	0.0000000000
69	MBC6S09H	3564.9836851200	-80.6000000000	100.9999966028	-132.1568124764	180.0000000000	0.0000000000	0.0000000000
70	D705	3565.1797751200	-80.6000000000	100.9999966028	-132.3529024764	180.0000000000	0.0000000000	0.0000000000
71	MBC6S09V	3565.1797751300	-80.6000000000	100.9999966028	-132.3529024864	180.0000000000	0.0000000000	0.0000000000
72	D716	3567.4658851300	-80.6000000000	100.9999966028	-134.6390124864	180.0000000000	0.0000000000	0.0000000000
73	IPM6S10	3567.4658851300	-80.6000000000	100.9999966028	-134.6390124864	180.0000000000	0.0000000000	0.0000000000
74	D703	3567.6905351300	-80.6000000000	100.9999966028	-134.8636624864	180.0000000000	0.0000000000	0.0000000000
75	MQA6S10	3567.9905351300	-80.6000000000	100.9999966028	-135.1636624864	180.0000000000	0.0000000000	0.0000000000
76	D704	3568.1836851300	-80.6000000000	100.9999966028	-135.3568124864	180.0000000000	0.0000000000	0.0000000000
77	MBC6S10H	3568.1836851400	-80.6000000000	100.9999966028	-135.3568124964	180.0000000000	0.0000000000	0.0000000000
78	D705	3568.3797751400	-80.6000000000	100.9999966028	-135.5529024964	180.0000000000	0.0000000000	0.0000000000
79	MBC6S10V	3568.3797751500	-80.6000000000	100.9999966028	-135.5529025064	180.0000000000	0.0000000000	0.0000000000
80	D706	3568.8852351500	-80.6000000000	100.9999966028	-136.0583625064	180.0000000000	0.0000000000	0.0000000000
81	D3024	3569.1290351500	-80.6000000000	100.9999966028	-136.3021625064	180.0000000000	0.0000000000	0.0000000000
82	RRF8T01	3569.8290351500	-80.6000166123	100.9999966028	-137.0021625064	-179.9972805300	0.0000000000	0.0000000000
83	D3025	3570.9324351500	-80.6000689837	100.9999966028	-138.1056250490	-179.9972805300	0.0000000000	0.0000000000
84	RRF8T02	3571.6324351500	-80.6001188206	100.9999966028	-138.8055625030	-179.9945610600	0.0000000000	0.0000000000
85	D3025	3572.7358351500	-80.6002235635	100.9999966028	-139.9089624981	-179.9945610600	0.0000000000	0.0000000000
86	RRF8T02	3573.4358351500	-80.6003066250	100.9999966028	-140.6089624931	-179.9918415900	0.0000000000	0.0000000000
87	D3025	3574.5392351500	-80.6004637394	100.9999966028	-141.7123624819	-179.9918415900	0.0000000000	0.0000000000
88	DRFSEP	3575.2392351500	-80.6005634132	100.9999966028	-142.4123624748	-179.9918415900	0.0000000000	0.0000000000
89	DUMMY	3575.2392351500	-80.6005634132	100.9999966028	-142.4123624748	-179.9918415900	0.0000000000	0.0000000000
90	D3026A	3584.0160151500	-80.6018131487	100.9999966028	-151.1891423858	-179.9918415900	0.0000000000	0.0000000000
91	IPM8E01	3584.0160151500	-80.6018131487	100.9999966028	-151.1891423858	-17		

114	ITV8E02	3601.9953711900	-80.6060477878	100.9999966028	-169.1584978642	179.9902816100	0.0000000000	0.0000000000
115	D3030	3602.2646811900	-80.6060021080	100.9999966028	-169.4278078604	179.9902816100	0.0000000000	0.0000000000
116	MYA8T01	3603.2646811900	-80.6061715212	100.9999966028	-170.4278078269	-179.9708682900	0.0000000000	0.0000000000
117	D980	3603.4646811900	-80.6062732100	100.9999966028	-170.6278078010	-179.9708682900	0.0000000000	0.0000000000
118	MYA8T01	3604.4646811900	-80.6071206852	100.9999966028	-171.6278074227	-179.9320181900	0.0000000000	0.0000000000
119	D3031A	3617.1260811900	-80.6221435140	100.9999966028	-184.2891985104	-179.9320181900	0.0000000000	0.0000000000
120	IPM8E04	3617.1260811900	-80.6221435140	100.9999966028	-184.2891985104	-179.9320181900	0.0000000000	0.0000000000
121	D3004	3617.3507311900	-80.6224100626	100.9999966028	-184.5138483523	-179.9320181900	0.0000000000	0.0000000000
122	MQC8E03	3617.6507311900	-80.6230399033	100.9999966028	-184.8138476494	-179.8274001900	0.0000000000	0.0000000000
123	D3008	3617.8438811900	-80.6236217542	100.9999966028	-185.0069967730	-179.8274001900	0.0000000000	0.0000000000
124	MBM8E03H	3617.8438812000	-80.6236217543	100.9999966028	-185.0069967830	-179.8274001900	0.0000000000	0.0000000000
125	D3009	3618.0399712000	-80.6242124618	100.9999966028	-185.2030858933	-179.8274001900	0.0000000000	0.0000000000
126	MBM8E03V	3618.0399712100	-80.6242124618	100.9999966028	-185.2030859033	-179.8274001900	0.0000000000	0.0000000000
127	D3032	3623.9759412100	-80.6420941584	100.9999966028	-191.1390289696	-179.8274001900	0.0000000000	0.0000000000
128	MYB8T02	3625.9761812100	-80.6887001232	100.9999966028	-193.1385886333	-177.5021701900	0.0000000000	0.0000000000
129	D3033A	3631.0290612100	-80.9089124475	100.9999966028	-198.1866677558	-177.5021701900	0.0000000000	0.0000000000
130	IPM8T00A	3631.0290612100	-80.9089124475	100.9999966028	-198.1866677558	-177.5021701900	0.0000000000	0.0000000000
131	D3034	3631.3084612100	-80.9210891316	100.9999966028	-198.4658022903	-177.5021701900	0.0000000000	0.0000000000
132	MBP8T03	3633.3089212100	-80.9682079617	100.9999966028	-200.4655733945	-179.7983101900	0.0000000000	0.0000000000
133	D3034A	3634.2329612100	-80.9714607155	100.9999966028	-201.3896076694	-179.7983101900	0.0000000000	0.0000000000
134	MBP8T03	3636.2342121000	-80.9384219304	100.9999966028	-203.3896609417	177.9055498100	0.0000000000	0.0000000000
135	D3035A	3644.2061512100	-80.6470432756	100.9999966028	-211.3570646677	177.9055498100	0.0000000000	0.0000000000
136	IPM8T00B	3644.2061512100	-80.6470432756	100.9999966028	-211.3570646677	177.9055498100	0.0000000000	0.0000000000
137	D3036	3644.4895512100	-80.6366858810	100.9999966028	-211.6402753390	177.9055498100	0.0000000000	0.0000000000
138	MBQ8T04	3646.4897812100	-80.6001306929	100.9999966028	-213.6400598936	179.9999998100	0.0000000000	0.0000000000
139	D3037A	3646.9889072100	-80.6001306913	100.9999966028	-214.1391858936	179.9999998100	0.0000000000	0.0000000000
140	IPM8T01	3646.9889072100	-80.6001306913	100.9999966028	-214.1391858936	179.9999998100	0.0000000000	0.0000000000
141	D3004	3647.2135572100	-80.6001306905	100.9999966028	-214.3638358936	179.9999998100	0.0000000000	0.0000000000
142	MQA8T01	3647.5135572100	-80.6001306895	100.9999966028	-214.6638358936	179.9999998100	0.0000000000	0.0000000000
143	D3008	3647.7067072100	-80.6001306889	100.9999966028	-214.8569858936	179.9999998100	0.0000000000	0.0000000000
144	MCB8T01H	3647.7067072200	-80.6001306889	100.9999966028	-214.8569858936	179.9999998100	0.0000000000	0.0000000000
145	D3009	3647.9027972200	-80.6001306882	100.9999966028	-215.0530759336	179.9999998100	0.0000000000	0.0000000000
146	MCB8T01V	3647.9027972200	-80.6001306882	100.9999966028	-215.0530759336	179.9999998100	0.0000000000	0.0000000000
147	D3038	3649.2135572300	-80.6001306839	100.9999966028	-216.3638359136	179.9999998100	0.0000000000	0.0000000000
148	MQA8T02	3649.5135572300	-80.6001306829	100.9999966028	-216.6638359136	179.9999998100	0.0000000000	0.0000000000
149	D3039	3652.9889072300	-80.6001306714	100.9999966028	-220.1391859136	179.9999998100	0.0000000000	0.0000000000
150	IPM8T03	3652.9889072300	-80.6001306714	100.9999966028	-220.1391859136	179.9999998100	0.0000000000	0.0000000000
151	D3004	3653.2135572300	-80.6001306706	100.9999966028	-220.3638359136	179.9999998100	0.0000000000	0.0000000000
152	MQA8T03	3653.5135572300	-80.6001306696	100.9999966028	-220.6638359136	179.9999998100	0.0000000000	0.0000000000
153	D3008	3653.7067072300	-80.6001306690	100.9999966028	-220.8569859136	179.9999998100	0.0000000000	0.0000000000
154	MCB8T03H	3653.7067072400	-80.6001306690	100.9999966028	-220.8569859236	179.9999998100	0.0000000000	0.0000000000
155	D3009	3653.9027972400	-80.6001306683	100.9999966028	-221.0530759236	179.9999998100	0.0000000000	0.0000000000
156	MCB8T03V	3653.9027972500	-80.6001306683	100.9999966028	-221.0530759236	179.9999998100	0.0000000000	0.0000000000
157	D3040	3657.2135572500	-80.6001306573	100.9999966028	-224.3638359336	179.9999998100	0.0000000000	0.0000000000
158	MQA8T04	3657.5135572500	-80.6001306564	100.9999966028	-224.6638359336	179.9999998100	0.0000000000	0.0000000000
159	D3008	3657.7067072500	-80.6001306557	100.9999966028	-224.8569859336	179.9999998100	0.0000000000	0.0000000000
160	MCB8T04H	3657.7067072600	-80.6001306557	100.9999966028	-224.8569859436	179.9999998100	0.0000000000	0.0000000000
161	D3009	3657.9027972600	-80.6001306551	100.9999966028	-225.0530759436	179.9999998100	0.0000000000	0.0000000000
162	MCB8T04V	3657.9027972700	-80.6001306551	100.9999966028	-225.0530759436	179.9999998100	0.0000000000	0.0000000000
163	D3040	3661.2135572700	-80.6001306441	100.9999966028	-228.3638359536	179.9999998100	0.0000000000	0.0000000000
164	MQA8T05	3661.5135572700	-80.6001306431	100.9999966028	-228.6638359536	179.9999998100	0.0000000000	0.0000000000
165	D3005	3661.9027972700	-80.6001306418	100.9999966028	-229.0530759536	179.9999998100	0.0000000000	0.0000000000
166	MCB8T05V	3661.9027972800	-80.6001306418	100.9999966028	-229.0530759636	179.9999998100	0.0000000000	0.0000000000
167	D3041	3662.9889072800	-80.6001306382	100.9999966028	-230.1391859636	179.9999998100	0.0000000000	0.0000000000
168	IPM8T06	3662.9889072800	-80.6001306382	100.9999966028	-230.1391859636	179.9999998100	0.0000000000	0.0000000000
169	D3004	3663.2135572800	-80.6001306374	100.9999966028	-230.3638359636	179.9999998100	0.0000000000	0.0000000000
170	MQA8T06	3663.5135572800	-80.6001306365	100.9999966028	-230.6638359636	179.9999998100	0.0000000000	0.0000000000
171	D3008	3663.7067072800	-80.6001306358	100.9999966028	-230.8569859636	179.9999998100	0.0000000000	0.0000000000
172	MCB8T06H	3663.7067072900	-80.6001306358	100.9999966028	-230.8569859736	179.9999998100	0.0000000000	0.0000000000
173	D3042	3665.2426772900	-80.6001306307	100.9999966028	-232.3929559736	179.9999998100	0.0000000000	0.0000000000
174	D741	3665.2892372900	-80.6001306306	100.9999966028	-232.4395159736	179.9999998100	0.0000000000	0.0000000000
175	MAB6R01	3666.2893972900	-80.6001306273	100.6999966594	-233.4390321532	179.9999998100	-3.5611300000	0.0000000000
176	D742	3670.1187872900	-80.6001306146	100.7310683489	-237.2610279704	179.9999998100	-3.5611300000	0.0000000000
177	MAB6R03	3671.1189472900	-80.6001306113	100.6999966594	-238.2605441500	179.9999998100	0.0000000000	0.0000000000
178	D743B	3671.9752072900	-80.6001306084	100.6999966594	-239.1168041500	179.9999998100	0.0000000000	0.0000000000
179	IPM6R08	3671.9752072900	-80.6001306084	100.6999966594	-239.1168041500	179.9999998100	0.0000000000	0.0000000000
180	D703	3672.1998572900	-80.6001306077	100.6999966594	-239.3414541500	179.9999998100	0.0000000000	0.0000000000
181	MQA6R08	3672.4998572900	-80.6001306067	100.6999966594	-239.6414541500	179.9999998100	0.0000000000	0.0000000000
182	D704	3672.6930072900	-80.6001306060	100.6999966594	-239.8346041500	179.9999998100	0.0000000000	0.0000000000
183	MCB6R08H	3672.6930073000	-80.6001306060	100.6999966594	-239.8346041600	179.9999998100	0.0000000000	0.0000000000
184	D705	3672.8890973000	-80.6001306054	100.6999966594	-240.0306941600	179.9999998100	0.0000000000	0.0000000000
185	MCB6R08V	3672.8890973100	-80.6001306054	100.6999966594	-240.0306941700	179.9999998100	0.0000000000	0.0000000000
186	D708	3674.0452073100	-80.6001306016	100.6999966594	-241.1868041700	179.9999998100	0.0000000000	0.0000000000
187	IPM6R09	3674.0452073100	-80.6001306016	100.6999966594	-241.1868041700	179.9999998100	0.0000000000	0.0000000000
188	D703	3674.2698573100	-80.6001306008	100.6999966594	-241.4114541700	179.9999998100	0.0000000000	0.0000000000
189	MQA6R09	3674.5698573100	-80.6001305998	100.6999966594	-241.7114541700	179.9999998100	0.0000000000	0.0000000000
190	D704	3674.7630073100	-80.6001305992	100.6999966594	-241.9046041700	179.9999998100	0.0000000000	0.0000000000
191	MCB6R09H	3674.7630073200	-80.6001305992	100.6999966594	-241.9046041800	179.9999998100	0.0000000000	0.0000000000
192	D705	3674.9590973200	-80.6001305985	100.6999966594	-242.1006941800	179.9999998100	0.0000000000	0.0000000000
193	MCB6R09V	3674.9590973300	-80.6001305985	100.6999966594	-242.1006941900	179.9999998100	0.0000000000	0.0000000000
194	D744A	3678.8752073300	-80.6001305855	100.6999966594	-246.0168041900	179.9999998100	0.	

bsy8p.outd

LDIMAT VERSION 2.9 PROD
ODATE AND TIME OF THIS RUN: 12-JUN-2007 13:49:03

XSIF Parser Version 2.1
Version Date: 01-JAN-2004
Run: 12-JUN-2007 13:49:03
XSIF Parser developed by NLC Department,
Stanford Linear Accelerator Center.

UTRANSPORT

TITLE
CONVERTED FROM BSY8P.OPT

5 MAW8S01: SBEND, L=1.0004, ANGLE=2.79754, K1=0.694838, &
E1=0, E2=2.79709, HGAP=0.01905, &
HGAPX=0.01905, &
FINT=0.5, TILT=90
10 D900: DRIFT, L=2.00239
MAX8S02: SBEND, L=1.00245, ANGLE=2.30137, K1=-3.09287, &
E1=5.09865, E2=-2.79709, HGAP=0.023749, &
HGAPX=0.0238376, &
FINT=0.5, TILT=90
15 D901: DRIFT, L=0.222928
MYR8S03: SBEND, L=3.00396, ANGLE=-5.09891, K1=1.41445, &
E1=-0, E2=-5.0987, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=90
20 D902: DRIFT, L=0.259038
MBC8S00H: GKICK, L=1E-08, DXP=0, DYP=0
D903: DRIFT, L=4.02281
IPM8S01: MONITOR, L=0
D904: DRIFT, L=0.22465
25 MQA8S01: QUADRUPOLE, L=0.3, K1=-0.791902, TILT=0
D905: DRIFT, L=0.11815
MQD8S01SK: QUADRUPOLE, L=0.15, K1=0, TILT=45
D906: DRIFT, L=0.12109
MBC8S01V: GKICK, L=1E-08, DXP=0, DYP=0
30 D907: DRIFT, L=0.50546
ITV8S01: MONITOR, L=0
D908: DRIFT, L=2.48065
IPM8S02: MONITOR, L=0
MQA8S02: QUADRUPOLE, L=0.3, K1=1.11207, TILT=0
35 D909: DRIFT, L=0.19315
MBC8S02H: GKICK, L=1E-08, DXP=0, DYP=0
D910: DRIFT, L=0.19609
MBC8S02V: GKICK, L=1E-08, DXP=0, DYP=0
D911A: DRIFT, L=1.58611
40 IPM8S03: MONITOR, L=0
MQR8S03: QUADRUPOLE, L=0.5, K1=-0.928558, TILT=0
D912A: DRIFT, L=0.28924
MBC8S03V: GKICK, L=1E-08, DXP=0, DYP=0
D913: DRIFT, L=0.31166
45 MAE8S04: SBEND, L=1.00007, ANGLE=2.41122, K1=-7.47774, &
E1=1.20568, E2=1.20568, HGAP=0.012759, &
HGAPX=0.012759, &
FINT=0.5, TILT=90
D914: DRIFT, L=2.695
50 MAE8S06: SBEND, L=1.00007, ANGLE=-2.41122, K1=-7.47774, &
E1=-1.20658, E2=-1.20658, HGAP=0.012954, &
HGAPX=0.012954, &
FINT=0.5, TILT=90
D915: DRIFT, L=1.27496
55 ITV8S04: MONITOR, L=0
D916: DRIFT, L=0.3199
MQA8S04: QUADRUPOLE, L=0.3, K1=-1.10034, TILT=0
D919: DRIFT, L=0.1445
MQA8S04A: QUADRUPOLE, L=0.3, K1=0, TILT=0
60 D917: DRIFT, L=0.6372
IPM8S05: MONITOR, L=0
D918: DRIFT, L=0.2183
MQA8S05: QUADRUPOLE, L=0.3, K1=0.688804, TILT=0
MQA8S05A: QUADRUPOLE, L=0.3, K1=0, TILT=0
65 D920: DRIFT, L=0.1929
MBC8S05H: GKICK, L=1E-08, DXP=0, DYP=0
MBC8S05V: GKICK, L=1E-08, DXP=0, DYP=0
D921: DRIFT, L=0.46651
MQA8S06: QUADRUPOLE, L=0.3, K1=0.507129, TILT=0
70 MQA8S06A: QUADRUPOLE, L=0.3, K1=0.507129, TILT=0
D922: DRIFT, L=3.8372
IPM8S07: MONITOR, L=0
MQA8S07: QUADRUPOLE, L=0.3, K1=-0.891475, TILT=0
MQA8S07A: QUADRUPOLE, L=0.3, K1=-0.891475, TILT=0
75 D923: DRIFT, L=0.38899
MBC8S07V: GKICK, L=1E-08, DXP=0, DYP=0
D924: DRIFT, L=1.84821
IPM8S08: MONITOR, L=0
MQA8S08: QUADRUPOLE, L=0.3, K1=0.99721, TILT=0
80 MQA8S08A: QUADRUPOLE, L=0.3, K1=0.99721, TILT=0
MBC8S08V: GKICK, L=1E-08, DXP=0, DYP=0
IPM8S09: MONITOR, L=0
MQA8S09: QUADRUPOLE, L=0.3, K1=-0.847246, TILT=0
MQA8S09A: QUADRUPOLE, L=0.3, K1=-0.847246, TILT=0
85 MBC8S09V: GKICK, L=1E-08, DXP=0, DYP=0
IPM8S10: MONITOR, L=0
MQA8S10: QUADRUPOLE, L=0.3, K1=0.701821, TILT=0
MQA8S10A: QUADRUPOLE, L=0.3, K1=0.701821, TILT=0
90 D925: DRIFT, L=0.1929
MBC8S10H: GKICK, L=1E-08, DXP=0, DYP=0

MBC8S10V: GKICK, L=1E-08, DXP=0, DYP=0
D3024: DRIFT, L=0.52712
RRF8T01: SBEND, L=0.7, ANGLE=-0.00203963, K1=-0, &
E1=-0, E2=-0, HGAP=0, &
95 HGAPX=0, &
FINT=0.5, TILT=0
D3025: DRIFT, L=1.1034
RRF8T02: SBEND, L=0.7, ANGLE=-0.00203963, K1=-0, &
E1=-0, E2=-0, HGAP=0, &
100 HGAPX=0, &
FINT=0.5, TILT=0
D3026A: DRIFT, L=8.77678
IPM8E01: MONITOR, L=0
D3004: DRIFT, L=0.22465
105 MQC8E01: SBEND, L=0.3, ANGLE=-0.0069306, K1=2.28513E+06, &
E1=0.00572958, E2=-0.0126602, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
D3008: DRIFT, L=0.19315
110 MMB8E01H: GKICK, L=1E-08, DXP=0, DYP=0
D3009: DRIFT, L=0.19609
MMB8E01V: GKICK, L=1E-08, DXP=0, DYP=0
D3006: DRIFT, L=0.50546
D3027: DRIFT, L=0.2303
115 MBY8E01: SBEND, L=1.00029, ANGLE=-2.40609, K1=-0, &
E1=-0, E2=-2.40609, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
D3028: DRIFT, L=5.00442
120 MBZ8E02: SBEND, L=2.00059, ANGLE=4.81218, K1=-0, &
E1=2.40609, E2=2.40609, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
125 MBY8E03: SBEND, L=1.00029, ANGLE=-2.40609, K1=-0, &
E1=-2.40609, E2=-0, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
D3029: DRIFT, L=0.900346
IPM8E02: MONITOR, L=0
130 MQC8E02: SBEND, L=0.3, ANGLE=0.0248074, K1=-168630, &
E1=0.0126602, E2=0.0121472, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
135 MMB8E02H: GKICK, L=1E-08, DXP=0, DYP=0
MMB8E02V: GKICK, L=1E-08, DXP=0, DYP=0
ITV8E02: MONITOR, L=0
D3030: DRIFT, L=0.26931
MYA8T01: SBEND, L=1, ANGLE=-0.0388501, K1=-0, &
E1=-0.0121472, E2=-0.0640562, HGAP=0, &
140 HGAPX=0, &
FINT=0.5, TILT=0
D980: DRIFT, L=0.2
D3031A: DRIFT, L=12.6614
IPM8E03: MONITOR, L=0
145 MQC8E03: SBEND, L=0.3, ANGLE=-0.104618, K1=8982.91, &
E1=-0.0640562, E2=-0.168674, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
150 MMB8E03H: GKICK, L=1E-08, DXP=0, DYP=0
MMB8E03V: GKICK, L=1E-08, DXP=0, DYP=0
D3032: DRIFT, L=5.93597
MYB8T02: SBEND, L=2.00024, ANGLE=-2.32523, K1=-0, &
E1=0.168674, E2=-2.10347, HGAP=0, &
155 HGAPX=0, &
FINT=0.5, TILT=0
D3033A: DRIFT, L=5.05288
IPM8T00A: MONITOR, L=0
D3034: DRIFT, L=0.2794
MBP8T03: SBEND, L=2.00046, ANGLE=2.29614, K1=-0, &
160 E1=2.11671, E2=2.13229, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
D3034A: DRIFT, L=0.92404
D3035A: DRIFT, L=7.97273
165 IPM8T00B: MONITOR, L=0
D3036: DRIFT, L=0.2834
MBQ8T04: SBEND, L=2.00023, ANGLE=-2.09445, K1=-0, &
E1=-2.14553, E2=-0, HGAP=0, &
170 HGAPX=0, &
FINT=0.5, TILT=0
D3037A: DRIFT, L=0.499126
IPM8T01: MONITOR, L=0
MQA8T01: QUADRUPOLE, L=0.3, K1=0.836583, TILT=0
175 MBC8T01H: GKICK, L=1E-08, DXP=0, DYP=0
MBC8T01V: GKICK, L=1E-08, DXP=0, DYP=0
D3038: DRIFT, L=1.31076
MQA8T02: QUADRUPOLE, L=0.3, K1=-0.773609, TILT=0
D3039: DRIFT, L=3.47535
IPM8T03: MONITOR, L=0
180 MQA8T03: QUADRUPOLE, L=0.3, K1=0, TILT=0
MBC8T03H: GKICK, L=1E-08, DXP=0, DYP=0
MBC8T03V: GKICK, L=1E-08, DXP=0, DYP=0
D3040: DRIFT, L=3.31076
185 MQA8T04: QUADRUPOLE, L=0.3, K1=0, TILT=0
MBC8T04H: GKICK, L=1E-08, DXP=0, DYP=0
MBC8T04V: GKICK, L=1E-08, DXP=0, DYP=0
MQA8T05: QUADRUPOLE, L=0.3, K1=-0.609421, TILT=0
D3005: DRIFT, L=0.38924
MBC8T05V: GKICK, L=1E-08, DXP=0, DYP=0
190 D3041: DRIFT, L=1.08611
IPM8T06: MONITOR, L=0
MQA8T06: QUADRUPOLE, L=0.3, K1=0.949511, TILT=0
MBC8T06H: GKICK, L=1E-08, DXP=0, DYP=0
D3042: DRIFT, L=1.53597

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195 MAE8R01: SBEND, L=1.00007, ANGLE=-2.41122, K1=-7.47774, &
    E1=-1.20658, E2=-1.20658, HGAP=0.012954, &
    HGAPX=0.012954, &
    FINT=0.5, TILT=90
MAE8R03: SBEND, L=1.00007, ANGLE=2.41122, K1=-7.47774, &
200 E1=1.20568, E2=1.20568, HGAP=0.012759, &
    HGAPX=0.012759, &
    FINT=0.5, TILT=90
D3043: DRIFT, L=0.476236
IPM8R08: MONITOR, L=0
205 MQR8R08: QUADRUPOLE, L=0.5, K1=-0.958824, TILT=0
MBC8R08H: GKICK, L=1E-08, DXP=0, DYP=0
MBC8R08V: GKICK, L=1E-08, DXP=0, DYP=0
D911B: DRIFT, L=1.48611
IPM8R09: MONITOR, L=0
210 MQA8R09: QUADRUPOLE, L=0.3, K1=1.14811, TILT=0
MBC8R09H: GKICK, L=1E-08, DXP=0, DYP=0
D953: DRIFT, L=3.1822
IPM8R10: MONITOR, L=0
MQA8R10: QUADRUPOLE, L=0.3, K1=-0.798448, TILT=0
215 MBC8R10H: GKICK, L=1E-08, DXP=0, DYP=0
MBC8R10V: GKICK, L=1E-08, DXP=0, DYP=0
D954: DRIFT, L=3.67076
MAR8RAAH: GKICK, L=1E-08, DXP=0, DYP=0
D955: DRIFT, L=0.44652
220 MYR8R04: SBEND, L=3.00396, ANGLE=-5.09891, K1=1.41445, &
    E1=-0, E2=-5.0987, HGAP=0.0127, &
    HGAPX=0.0127, &
    FINT=0.5, TILT=90
D956: DRIFT, L=0.222928
225 MAX8R05: SBEND, L=1.00245, ANGLE=2.30137, K1=-3.09287, &
    E1=5.09865, E2=-2.79709, HGAP=0.023749, &
    HGAPX=0.0238376, &
    FINT=0.5, TILT=90
D957: DRIFT, L=2.00239
230 MAW8R06: SBEND, L=1.0004, ANGLE=2.79754, K1=0.694838, &
    E1=2.79709, E2=0, HGAP=0.01905, &
    HGAPX=0.01905, &
    FINT=0.5, TILT=90
D3049: DRIFT, L=1.22622
235 IHA2C00: MONITOR, L=0
D3050: DRIFT, L=0.7738

BSY8: LINE=(MAW8S01, &
240 D900, MAX8S02, D901, MYR8S03, D902, &
MBC8S00H, D903, IPM8S01, D904, MQA8S01, &
D905, MQD8S01SK, D906, MBC8S01V, D907, &
ITV8S01, D908, IPM8S02, D904, MQA8S02, &
D909, MBC8S02H, D910, MBC8S02V, D911A, &
IPM8S03, D904, MQR8S03, D912A, MBC8S03V, &
245 D913, MAE8S04, D914, MAE8S06, D915, &
ITV8S04, D916, MQA8S04, D919, MQA8S04A, &
D917, IPM8S05, D918, MQA8S05, D919, &
MQA8S05A, D920, MBC8S05H, D910, MBC8S05V, &
D921, MQA8S06, D919, MQA8S06A, D922, &
250 IPM8S07, D918, MQA8S07, D919, MQA8S07A, &
D923, MBC8S07V, D924, IPM8S08, D918, &
MQA8S08, D919, MQA8S08A, D923, MBC8S08V, &
D924, IPM8S09, D918, MQA8S09, D919, &
MQA8S09A, D923, MBC8S09V, D924, IPM8S10, &
255 D918, MQA8S10, D919, MQA8S10A, D925, &
MBC8S10H, D910, MBC8S10V, D3024, RRF8T01, &
D3025, RRF8T02, D3025, RRF8T02, D3025, &
RRF8T02, D3026A, IPM8E01, D3004, MQC8E01, &
D3008, MBM8E01H, D3009, MBM8E01V, D3006, &
D3027, MBY8E01, D3028, MBZ8E02, D3028, &
260 MBY8E03, D3029, IPM8E02, D3004, MQC8E02, &
D3008, MBM8E02H, D3009, MBM8E02V, D3006, &
ITV8E02, D3030, MYA8T01, D980, MYA8T01, &
D3031A, IPM8E03, D3004, MQC8E03, D3008, &
265 MBM8E03H, D3009, MBM8E03V, D3032, MYB8T02, &
D3033A, IPM8T00A, D3034, MBP8T03, D3034A, &
MBP8T03, D3035A, IPM8T00B, D3036, MBQ8T04, &
D3037A, IPM8T01, D3004, MQA8T01, D3008, &
MBC8T01H, D3009, MBC8T01V, D3038, MQA8T02, &
270 D3039, IPM8T03, D3004, MQA8T03, D3008, &
MBC8T03H, D3009, MBC8T03V, D3040, MQA8T04, &
D3008, MBC8T04H, D3009, MBC8T04V, D3040, &
MQA8T05, D3005, MBC8T05V, D3041, IPM8T06, &
D3004, MQA8T06, D3008, MBC8T06H, D3042, &
275 MAE8R01, D914, MAE8R03, D3043, IPM8R08, &
D904, MQR8R08, D909, MBC8R08H, D910, &
MBC8R08V, D911B, IPM8R09, D904, MQA8R09, &
D909, MBC8R09H, D953, IPM8R10, D904, &
MQA8R10, D909, MBC8R10H, D910, MBC8R10V, &
280 D954, MAR8RAAH, D955, MYR8R04, D956, &
MAX8R05, D957, MAW8R06, D3049, IHA2C00, &
D3050)
USE, BSY8
DIMAT

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1

* DIMAD PROGRAM : LAST MODIFIED ON May 27, 2005 *

CONVERTED FROM BSY8P.OPT

1

TOTAL LENGTH OF MACHINE IS: 166.838 METERS

IN THIS RUN THERE ARE :

165 DISTINCT ELEMENTS. ALLOCATED MXELMD : 166
217 ELEMENTS IN MACHINE. ALLOCATED MXPOS_D : 219
49 MATRICES DEFINED. ALLOCATED MAXMAT : 50
946 VALUES IN ELDAT. ALLOCATED MAXDAT : 946
0 LCAVs. ALLOCATED MX_LCAV : 1

1

OPERATION LIST ,

MACHINE

1 2 1 0 1 1 1
45.3891 1.1382 0 0
40.4474 -0.959019 0 0
0,

ELEMENT	#	BETAX	ALPHAX	BETAY	ALPHAY	ETAX	ETAPX	ETAY	ETAPY	NUX	NUY	ACC.LEN
\$\$INITIAL\$\$	0	45.3891	1.1382	40.4474	-0.9590	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.000
MW8S01	1	43.0938	1.2578	42.3833	-1.0767	0.0000	0.0000	0.0244	0.0489	0.00360	0.00385	1.000
D900	2	38.2968	1.1378	46.8998	-1.1788	0.0000	0.0000	0.1223	0.0489	0.01145	0.01100	3.003
MAX8S02	3	35.9958	0.9540	49.3385	-0.9844	0.0000	0.0000	0.1914	0.0881	0.01575	0.01431	4.005
D901	4	35.5731	0.9422	49.7794	-0.9933	0.0000	0.0000	0.2110	0.0881	0.01674	0.01503	4.228
MYR8S03	5	30.0369	0.9733	56.2841	-1.3233	0.0000	0.0000	0.3425	0.0003	0.03136	0.02407	7.232
D902	6	29.5370	0.9565	56.9730	-1.3359	0.0000	0.0000	0.3425	0.0003	0.03274	0.02480	7.491
MBC8S00H	7	29.5370	0.9565	56.9730	-1.3359	0.0000	0.0000	0.3425	0.0003	0.03274	0.02480	7.491
D903	8	22.8901	0.6957	68.5122	-1.5325	0.0000	0.0000	0.3439	0.0003	0.05747	0.03505	11.514
IPM8S01	9	22.8901	0.6957	68.5122	-1.5325	0.0000	0.0000	0.3439	0.0003	0.05747	0.03505	11.514
D904	10	22.5808	0.6812	69.2032	-1.5435	0.0000	0.0000	0.3440	0.0003	0.05904	0.03557	11.739
MQA8S01	11	23.8064	-4.8629	65.2741	14.3279	0.0000	0.0000	0.3319	-0.0804	0.06112	0.03627	12.039
D905	12	24.9699	-4.9852	61.9325	13.9545	0.0000	0.0000	0.3224	-0.0804	0.06189	0.03657	12.157
MQD8S01S	13	26.4888	-5.1405	57.8173	13.4804	0.0000	0.0000	0.3103	-0.0804	0.06282	0.03697	12.307
D906	14	27.7489	-5.2659	54.5989	13.0978	0.0000	0.0000	0.3006	-0.0804	0.06353	0.03731	12.428
MBC8S01V	15	27.7489	-5.2659	54.5989	13.0978	0.0000	0.0000	0.3006	-0.0804	0.06353	0.03731	12.428
D907	16	33.3368	-5.7892	42.1656	11.5003	0.0000	0.0000	0.2599	-0.0804	0.06618	0.03899	12.933
ITV8S01	17	33.3368	-5.7892	42.1656	11.5003	0.0000	0.0000	0.2599	-0.0804	0.06618	0.03899	12.933
D908	18	68.4298	-8.3575	4.5565	3.6606	0.0000	0.0000	0.0604	-0.0804	0.07445	0.06762	15.414
IPM8S02	19	68.4298	-8.3575	4.5565	3.6606	0.0000	0.0000	0.0604	-0.0804	0.07445	0.06762	15.414
D904	20	72.2371	-8.5901	3.0713	2.9507	0.0000	0.0000	0.0423	-0.0804	0.07496	0.07719	15.639
MQA8S02	21	70.1522	15.3062	1.7922	1.4542	0.0000	0.0000	0.0200	-0.0701	0.07562	0.09794	15.939
D909	22	64.3646	14.6584	1.2953	1.1185	0.0000	0.0000	0.0064	-0.0701	0.07607	0.11817	16.132
MBC8S02H	23	64.3646	14.6584	1.2953	1.1185	0.0000	0.0000	0.0064	-0.0701	0.07607	0.11817	16.132
D910	24	58.7448	14.0007	0.9235	0.7778	0.0000	0.0000	-0.0073	-0.0701	0.07658	0.14686	16.328
MBC8S02V	25	58.7448	14.0007	0.9235	0.7778	0.0000	0.0000	-0.0073	-0.0701	0.07658	0.14686	16.328
D911A	26	22.7688	8.6812	2.8284	-1.9788	0.0000	0.0000	-0.1186	-0.0701	0.08349	0.42759	17.914
IPM8S03	27	22.7688	8.6812	2.8284	-1.9788	0.0000	0.0000	-0.1186	-0.0701	0.08349	0.42759	17.914
D904	28	19.0377	7.9277	3.8052	-2.3692	0.0000	0.0000	-0.1343	-0.0701	0.08520	0.43850	18.139
MQR8S03	29	15.5023	-0.3182	5.4092	-0.5867	0.0000	0.0000	-0.1527	-0.0022	0.09002	0.45540	18.639
D912A	30	15.6923	-0.3387	5.7694	-0.6585	0.0000	0.0000	-0.1534	-0.0022	0.09297	0.46364	18.928
MBC8S03V	31	15.6923	-0.3387	5.7694	-0.6585	0.0000	0.0000	-0.1534	-0.0022	0.09297	0.46364	18.928
D913	32	15.9103	-0.3608	6.2040	-0.7360	0.0000	0.0000	-0.1540	-0.0022	0.09611	0.47194	19.240
MAE8S04	33	16.8931	-0.6254	7.8282	-0.8814	0.0000	0.0000	-0.1342	0.0419	0.10584	0.49480	20.240
D914	34	20.8620	-0.8473	14.2274	-1.4931	0.0000	0.0000	-0.0213	0.0419	0.12877	0.53590	22.935
MAE8S06	35	22.8942	-1.1919	17.2249	-1.4919	0.0000	0.0000	-0.0004	-0.0001	0.13607	0.54605	23.935
D915	36	26.1053	-1.3267	21.3334	-1.7306	0.0000	0.0000	-0.0005	-0.0001	0.14438	0.55664	25.210
ITV8S04	37	26.1053	-1.3267	21.3334	-1.7306	0.0000	0.0000	-0.0005	-0.0001	0.14438	0.55664	25.210
D916	38	26.9650	-1.3606	22.4598	-1.7905	0.0000	0.0000	-0.0006	-0.0001	0.14630	0.55896	25.530
MQA8S04	39	30.6058	-11.1735	21.3292	5.4342	0.0000	0.0000	-0.0006	0.0001	0.14799	0.56111	25.830
D919	40	33.9208	-11.7677	19.7886	5.2273	0.0000	0.0000	-0.0006	0.0001	0.14870	0.56223	25.974
MQA8S04A	41	41.3515	-13.0012	16.7810	4.7979	0.0000	0.0000	-0.0005	0.0001	0.14997	0.56485	26.274
D917	42	59.5898	-15.6213	11.2477	3.8858	0.0000	0.0000	-0.0005	0.0001	0.15202	0.57223	26.911
IPM8S05	43	59.5898	-15.6213	11.2477	3.8858	0.0000	0.0000	-0.0005	0.0001	0.15202	0.57223	26.911
D918	44	66.6060	-16.5189	9.6194	3.5734	0.0000	0.0000	-0.0005	0.0001	0.15257	0.57558	27.130
MQA8S05	45	72.4309	-2.4943	8.1259	1.5073	0.0000	0.0000	-0.0005	0.0000	0.15325	0.58103	27.430
D919	46	73.1538	-2.5087	7.6987	1.4491	0.0000	0.0000	-0.0005	0.0000	0.15357	0.58394	27.574
MQA8S05A	47	74.6680	-2.5386	6.8654	1.3283	0.0000	0.0000	-0.0005	0.0000	0.15421	0.59051	27.874
D920	48	75.6511	-2.5578	6.3679	1.2507	0.0000	0.0000	-0.0005	0.0000	0.15462	0.59515	28.067
MBC8S05H	49	75.6511	-2.5578	6.3679	1.2507	0.0000	0.0000	-0.0005	0.0000	0.15462	0.59515	28.067
D910	50	76.6581	-2.5774	5.8929	1.1717	0.0000	0.0000	-0.0005	0.0000	0.15503	0.60025	28.263
MBC8S05V	51	76.6581	-2.5774	5.8929	1.1717	0.0000	0.0000	-0.0005	0.0000	0.15503	0.60025	28.263
D921	52	79.0845	-2.6239	4.8873	0.9839	0.0000	0.0000	-0.0005	0.0000	0.15598	0.61410	28.730
MQA8S06	53	77.0653	9.2520	4.5422	0.1842	0.0000	0.0000	-0.0005	-0.0001	0.15659	0.62432	29.030
D919	54	74.4149	9.0896	4.4937	0.1513	0.0000	0.0000	-0.0005	-0.0001	0.15689	0.62941	29.174
MQA8S06A	55	65.8801	18.9255	4.6292	-0.6098	0.0000	0.0000	-0.0005	-0.0002	0.15757	0.63997	29.474
D922	56	0.9132	-1.9947	13.6721	-1.7469	0.0000	0.0000	-0.0012	-0.0002	0.57521	0.72007	33.311
IPM8S07	57	0.9132	-1.9947	13.6721	-1.7469	0.0000	0.0000	-0.0012	-0.0002	0.57521	0.72007	33.311
D918	58	2.0440	-3.1849	14.4489	-1.8116	0.0000	0.0000	-0.0012	-0.0002	0.60075	0.72254	33.530
MQA8S07	59	4.7311	-6.0106	14.3760	2.0481	0.0000	0.0000	-0.0012	0.0002	0.61633	0.72581	33.830
D919	60	6.6321	-7.1446	13.7917	1.9959	0.0000	0.0000	-0.0012	0.0002	0.62044	0.72745	33.974
MQA8S07A	61	12.4237	-12.6744	11.6116	5.0757	0.0000	0.0000	-0.0011	0.0005	0.62577	0.73117	34.274
D923	62	24.2528	-17.7354	8.0116	4.1791	0.0000	0.0000	-0.0009	0.0005	0.62934	0.73759	34.663
MBC8S07V	63	24.2528	-17.7354	8.0116	4.1791	0.0000	0.0000	-0.0009	0.0005	0.62934	0.73759	34.663
D924	64	134.2528	-41.7817	0.4367	-0.0807	0.0000	0.0000	-0.0001	0.0005	0.63449	0.96302	36.511
IPM8S08	65	134.2528	-41.7817	0.4367	-0.0807	0.0000	0.0000	-0.0001	0.0005	0.63449	0.96302	36.511
D918	66	153.1148	-44.6219	0.5817	-0.5838	0.0000	0.0000	0.0001	0.0005	0.63474	1.03431	36.730
MQA8S08	67	166.1152	2.5914	1.2209	-1.6100	0.0000	0.0000	0.0002	0.0005	0.63503	1.09315	37.030
D919	68	165.3672	2.5847	1.7476	-2.0351	0.0000	0.0000	0.0003	0.0005	0.63517	1.10892	37.174

MQA8S08A	69	149.5088	48.6857	3.4775	-3.9026	0.0000	0.0000	0.0004	0.0006	0.63547	1.12863	37.474
D923	70	114.0322	42.5161	7.2198	-5.7181	0.0000	0.0000	0.0007	0.0006	0.63594	1.14100	37.863
MBC8S08V	71	114.0322	42.5161	7.2198	-5.7181	0.0000	0.0000	0.0007	0.0006	0.63594	1.14100	37.863
D924	72	11.0527	13.2024	44.2988	-14.3440	0.0000	0.0000	0.0018	0.0006	0.64423	1.15747	39.711
IPM8S09	73	11.0527	13.2024	44.2988	-14.3440	0.0000	0.0000	0.0018	0.0006	0.64423	1.15747	39.711
D918	74	6.0444	9.7400	50.7838	-15.3629	0.0000	0.0000	0.0020	0.0006	0.64848	1.15821	39.930
MQA8S09	75	1.8356	4.6441	56.1746	-2.1473	0.0000	0.0000	0.0021	0.0001	0.66302	1.15909	40.230
D919	76	0.7501	2.8675	56.7973	-2.1618	0.0000	0.0000	0.0021	0.0001	0.68267	1.15950	40.374
MQA8S09A	77	0.1344	-0.7632	53.8162	11.8448	0.0000	0.0000	0.0020	-0.0004	0.97962	1.16035	40.674
D923	78	2.5096	-5.3428	44.9985	10.8234	0.0000	0.0000	0.0019	-0.0004	1.09641	1.16161	41.063
MBC8S09V	79	2.5096	-5.3428	44.9985	10.8234	0.0000	0.0000	0.0019	-0.0004	1.09641	1.16161	41.063
D924	80	62.4742	-27.1019	13.9591	5.9708	0.0000	0.0000	0.0011	-0.0004	1.11999	1.17335	42.911
IPM8S10	81	62.4742	-27.1019	13.9591	5.9708	0.0000	0.0000	0.0011	-0.0004	1.11999	1.17335	42.911
D918	82	74.8680	-29.6719	11.4774	5.3977	0.0000	0.0000	0.0010	-0.0004	1.12050	1.17610	43.130
MQA8S10	83	88.3381	-14.2791	9.0824	2.7532	0.0000	0.0000	0.0009	-0.0002	1.12108	1.18083	43.430
D919	84	92.5132	-14.6143	8.3064	2.6167	0.0000	0.0000	0.0009	-0.0002	1.12133	1.18347	43.574
MQA8S10A	85	95.4001	5.1948	7.2921	0.8353	0.0000	0.0000	0.0008	0.0000	1.12184	1.18967	43.874
D925	86	93.4068	5.1383	6.9785	0.7904	0.0000	0.0000	0.0008	0.0000	1.12216	1.19398	44.067
MBC8S10H	87	93.4068	5.1383	6.9785	0.7904	0.0000	0.0000	0.0008	0.0000	1.12216	1.19398	44.067
D910	88	91.4030	5.0807	6.6775	0.7447	0.0000	0.0000	0.0008	0.0000	1.12250	1.19855	44.263
MBC8S10V	89	91.4030	5.0807	6.6775	0.7447	0.0000	0.0000	0.0008	0.0000	1.12250	1.19855	44.263
D3024	90	86.1282	4.9261	5.9570	0.6220	0.0000	0.0000	0.0008	0.0000	1.12345	1.21187	44.790
RRF8T01	91	79.3754	4.7207	5.2003	0.4590	0.0000	0.0000	0.0007	0.0000	1.12479	1.23194	45.490
D3025	92	69.3148	4.3971	4.4707	0.2021	-0.0001	0.0000	0.0007	0.0000	1.12716	1.26868	46.594
RRF8T02	93	63.3027	4.1917	4.3018	0.0392	-0.0001	-0.0001	0.0007	0.0000	1.12884	1.29420	47.294
D3025	94	54.4096	3.8680	4.4988	-0.2177	-0.0002	-0.0001	0.0006	0.0000	1.13184	1.33455	48.397
RRF8T02	95	49.1381	3.6627	4.9177	-0.3807	-0.0002	-0.0001	0.0006	0.0000	1.13399	1.35832	49.097
D3025	96	41.4125	3.3390	6.0412	-0.6376	-0.0003	-0.0001	0.0005	0.0000	1.13788	1.39076	50.200
RRF8T02	97	36.8817	3.1336	7.0479	-0.8005	-0.0004	-0.0001	0.0005	0.0000	1.14073	1.40787	50.900
D3026A	98	4.4735	0.5589	39.0346	-2.8439	-0.0017	-0.0001	0.0001	0.0000	1.26046	1.49662	59.677
IPM8E01	99	4.4735	0.5589	39.0346	-2.8439	-0.0017	-0.0001	0.0001	0.0000	1.26046	1.49662	59.677
D3004	100	4.2372	0.4930	40.3242	-2.8962	-0.0017	-0.0001	0.0000	0.0000	1.26868	1.49752	59.902
MQC8E01	101	4.1047	-0.0465	40.7109	1.6217	-0.0018	-0.0005	0.0000	-0.0001	1.28020	1.49869	60.202
D3008	102	4.1318	-0.0937	40.0877	1.6045	-0.0019	-0.0005	0.0000	-0.0001	1.28767	1.49945	60.395
MBM8E01H	103	4.1318	-0.0937	40.0877	1.6045	-0.0019	-0.0005	0.0000	-0.0001	1.28767	1.49945	60.395
D3009	104	4.1779	-0.1416	39.4619	1.5870	-0.0020	-0.0005	0.0000	-0.0001	1.29518	1.50023	60.591
MBM8E01V	105	4.1779	-0.1416	39.4619	1.5870	-0.0020	-0.0005	0.0000	-0.0001	1.29518	1.50023	60.591
D3006	106	4.3834	-0.2650	37.8804	1.5419	-0.0022	-0.0005	0.0000	-0.0001	1.31402	1.50232	61.096
D3027	107	4.5184	-0.3212	37.1749	1.5214	-0.0023	-0.0005	0.0000	-0.0001	1.32226	1.50329	61.327
MBY8E01	108	5.3964	-0.5655	34.2205	1.4926	-0.0238	-0.0425	-0.0001	-0.0001	1.35472	1.50776	62.327
D3028	109	17.1822	-1.7895	21.6440	1.0205	-0.2364	-0.0425	-0.0003	-0.0001	1.44170	1.53719	67.331
MBZ8E02	110	25.3106	-2.2783	17.8000	0.8941	-0.2373	0.0416	-0.0005	-0.0001	1.45697	1.55344	69.332
D3028	111	54.2386	-3.5022	11.3831	0.3882	-0.0293	0.0416	-0.0007	-0.0001	1.47854	1.61062	74.336
MBY8E03	112	61.5895	-3.7466	10.6688	0.3057	-0.0088	-0.0005	-0.0008	-0.0001	1.48129	1.62508	75.337
D3029	113	68.5339	-3.9664	10.2014	0.2135	-0.0092	-0.0005	-0.0008	-0.0001	1.48349	1.63883	76.237
IPM8E02	114	68.5339	-3.9664	10.2014	0.2135	-0.0092	-0.0005	-0.0008	-0.0001	1.48349	1.63883	76.237
D3004	115	70.3283	-4.0213	10.1106	0.1904	-0.0093	-0.0005	-0.0008	-0.0001	1.48401	1.64236	76.462
MQC8E02	116	70.5124	3.4141	10.3263	-0.9196	-0.0092	0.0010	-0.0008	-0.0001	1.48468	1.64705	76.762
D3008	117	69.2002	3.3795	10.6871	-0.9512	-0.0090	0.0010	-0.0009	-0.0001	1.48512	1.64998	76.955
MBM8E02H	118	69.2002	3.3795	10.6871	-0.9512	-0.0090	0.0010	-0.0009	-0.0001	1.48512	1.64998	76.955
D3009	119	67.8818	3.3443	11.0669	-0.9861	-0.0088	0.0010	-0.0009	-0.0001	1.48558	1.65285	77.151
MBM8E02V	120	67.8818	3.3443	11.0669	-0.9861	-0.0088	0.0010	-0.0009	-0.0001	1.48558	1.65285	77.151
D3006	121	64.5468	3.2535	12.1094	-1.0762	-0.0084	0.0010	-0.0010	-0.0001	1.48679	1.65980	77.656
ITV8E02	122	64.5468	3.2535	12.1094	-1.0762	-0.0084	0.0010	-0.0010	-0.0001	1.48679	1.65980	77.656
D3030	123	62.8074	3.2052	12.7020	-1.1242	-0.0081	0.0010	-0.0010	-0.0001	1.48747	1.66326	77.926
MYA8T01	124	56.5765	3.0257	15.1287	-1.3025	-0.0075	0.0003	-0.0011	-0.0001	1.49014	1.67475	78.926
D980	125	55.3734	2.9898	15.6568	-1.3381	-0.0074	0.0003	-0.0012	-0.0001	1.49071	1.67682	79.126
MYA8T01	126	49.5733	2.8103	18.5112	-1.5163	-0.0075	-0.0004	-0.0013	-0.0001	1.49374	1.68617	80.126
D3031A	127	7.1826	0.5377	85.4801	-3.7729	-0.0126	-0.0004	-0.0030	-0.0001	1.61081	1.73773	92.787
IPM8E03	128	7.1826	0.5377	85.4801	-3.7729	-0.0126	-0.0004	-0.0030	-0.0001	1.61081	1.73773	92.787
D3004	129	6.9500	0.4974	87.1843	-3.8129	-0.0127	-0.0004	-0.0031	-0.0001	1.61587	1.73814	93.012
MQC8E03	130	6.8721	-0.2353	86.8570	4.8938	-0.0133	-0.0035	-0.0031	0.0002	1.62282	1.73869	93.312
D3008	131	6.9687	-0.2649	84.9773	4.8383	-0.0140	-0.0035	-0.0030	0.0002	1.62726	1.73904	93.505
MBM8E03H	132	6.9687	-0.2649	84.9773	4.8383	-0.0140	-0.0035	-0.0030	0.0002	1.62726	1.73904	93.505
D3009	133	7.0785	-0.2950	83.0908	4.7820	-0.0147	-0.0035	-0.0030	0.0002	1.63170	1.73942	93.701
MBM8E03V	134	7.0785	-0.2950	83.0908	4.7820	-0.0147	-0.0035	-0.0030	0.0002	1.63170	1.73942	93.701
D3032	135	15.9924	-1.2066	36.4405	3.0769	-0.0356	-0.0035	-0.0020	0.0002	1.72590	1.75662	99.637
MYB8T02	136	21.3976	-1.5110	25.2879	2.5198	-0.0832	-0.0441	-0.0017	0.0002	1.74314	1.76711	101.637
D3033A	137	40.5854	-2.2864	7.2438	1.0513	-0.3061	-0.0441	-0.0008	0.0002	1.77057	1.82801	106.690
IPM8T00A	138	40.5854	-2.2864	7.2438	1.0513	-0.3061	-0.0441	-0.0008	0.0002	1.77057	1.82801	106.690
D3034	139	41.8750	-2.3292	6.6791	0.9701	-0.3184	-0.0441	-0.0007	0.0002	1.77164	1.83440	106.970
MBP8T03	140	51.8684	-2.6713	3.9468	0.3937	-0.3668	-0.0043	-0.0004	0.0002	1.77848	1.89810	108.970
D3034A	141	56.9392	-2.8163	3.4691	0.1233	-0.3707	-0.0043	-0.0002	0.0002	1.78118	1.93827	109.894
MBP8T03	142	68.9161	-3.1768	4.1373	-0.4568	-0.3395	0.0356	0.0001	0.0002	1.78626	2.02680	111.895
D3035A	143	129.8034	-4.4601	29.9918	-2.7860	-0.0559	0.0356	0.0015	0.0002	1.79970	2.15376	119.867
IPM8T00B	144	129.8034	-4.4601	29.9918	-2.7860	-0.0559	0.0356	0.0015	0.0002	1.79970	2.15376	119.867
D3036	145	132.3443	-4.5057	31.5944	-2.8688	-0.0458	0.0356	0.0015	0.0002	1.80004	2.15522	120.151
MBQ8T04	146	151.2072	-4.8298	44.1377	-3.4237	-0.0113	-0.0010	0.0019	0.0002	1.80229	2.16375	122.151
D3037A	147	156.0686	-4.9101	47.6272	-3.5676	-0.0118	-0.0010	0.0020	0.0002	1.80281	2.16548	122.650
IPM8T01	148	156.0686	-4.9101	47.6272	-3.5676	-0.0118	-0.0010	0.0020	0.0002	1.80281	2.16548	122.650
D3004	149	158.2829	-4.9463	49.2447	-3.6323	-0.0120	-0.0010	0.0020	0.0002	1.80304	2.16622	122.875
MQA8T01	150	149.4966	33.4950	55.3635	-17.2730	-0.0119	0.0020	0.0021	0.0007	1.80334	2.16715	123.175
D3008	151	136.8377	32.0442	62.2378	-18.3174	-0.0115	0.0020	0.0023	0.0007	1.80356	2.16767	123.368
MBC8T01H	152	136.837										

D3005	173	47.4335	-14.5545	41.8043	10.9203	-0.0076	-0.0012	0.0020	-0.0005	2.26182	2.19444	137.564
MBC8T05V	174	47.4335	-14.5545	41.8043	10.9203	-0.0076	-0.0012	0.0020	-0.0005	2.26182	2.19444	137.564
D3041	175	84.3420	-19.4278	21.4764	7.7960	-0.0089	-0.0012	0.0015	-0.0005	2.26455	2.20022	138.650
IPM8T06	176	84.3420	-19.4278	21.4764	7.7960	-0.0089	-0.0012	0.0015	-0.0005	2.26455	2.20022	138.650
D3004	177	93.2973	-20.4358	18.1188	7.1498	-0.0092	-0.0012	0.0013	-0.0005	2.26495	2.20203	138.875
MQA8T06	178	97.5163	6.7755	15.4396	2.0337	-0.0092	0.0014	0.0012	-0.0001	2.26545	2.20492	139.175
D3008	179	94.9169	6.6826	14.6664	1.9695	-0.0089	0.0014	0.0012	-0.0001	2.26577	2.20697	139.368
MBC8T06H	180	94.9169	6.6826	14.6664	1.9695	-0.0089	0.0014	0.0012	-0.0001	2.26577	2.20697	139.368
D3042	181	75.5232	5.9438	9.4011	1.4585	-0.0067	0.0014	0.0010	-0.0001	2.26865	2.22784	140.904
MA8R01	182	64.8962	4.7202	6.7175	1.2138	-0.0053	0.0014	-0.0202	-0.0421	2.27093	2.24788	141.904
D914	183	42.0599	3.7534	2.8492	0.2215	-0.0016	0.0014	-0.1338	-0.0421	2.27914	2.35350	144.599
MA8R03	184	35.3393	2.9906	2.7390	-0.1118	-0.0002	0.0014	-0.1539	0.0019	2.28328	2.41162	145.599
D3043	185	32.5546	2.8566	2.9293	-0.2878	0.0004	0.0014	-0.1530	0.0019	2.28552	2.43851	146.075
IPM8R08	186	32.5546	2.8566	2.9293	-0.2878	0.0004	0.0014	-0.1530	0.0019	2.28552	2.43851	146.075
D904	187	31.2854	2.7934	3.0772	-0.3709	0.0008	0.0014	-0.1526	0.0019	2.28664	2.45043	146.300
MQR8R08	188	36.2178	-13.4342	2.7963	0.8871	0.0016	0.0019	-0.1337	0.0719	2.28910	2.47660	146.800
D909	189	41.5944	-14.4020	2.4775	0.7636	0.0019	0.0019	-0.1198	0.0719	2.28989	2.48829	146.993
MBC8R08H	190	41.5944	-14.4020	2.4775	0.7636	0.0019	0.0019	-0.1198	0.0719	2.28989	2.48829	146.993
D910	191	47.4352	-15.3846	2.2026	0.6383	0.0023	0.0019	-0.1057	0.0719	2.29059	2.50167	147.189
MBC8R08V	192	47.4352	-15.3846	2.2026	0.6383	0.0023	0.0019	-0.1057	0.0719	2.29059	2.50167	147.189
D911B	193	104.2278	-22.8311	1.7166	-0.3113	0.0051	0.0019	0.0012	0.0719	2.29396	2.64012	148.675
IPM8R09	194	104.2278	-22.8311	1.7166	-0.3113	0.0051	0.0019	0.0012	0.0719	2.29396	2.64012	148.675
D904	195	114.7387	-23.9567	1.8887	-0.4548	0.0056	0.0019	0.0173	0.0719	2.29428	2.66003	148.900
MQA8R09	196	117.1253	16.2773	2.4423	-1.4536	0.0058	-0.0001	0.0402	0.0817	2.29469	2.68272	149.200
D909	197	110.9221	15.8387	3.0514	-1.6998	0.0058	-0.0001	0.0560	0.0817	2.29496	2.69399	149.393
MBC8R09H	198	110.9221	15.8387	3.0514	-1.6998	0.0058	-0.0001	0.0560	0.0817	2.29496	2.69399	149.393
D953	199	33.1115	8.6131	26.7765	-5.7558	0.0056	-0.0001	0.3161	0.0817	2.30332	2.75125	152.575
IPM8R10	200	33.1115	8.6131	26.7765	-5.7558	0.0056	-0.0001	0.3161	0.0817	2.30332	2.75125	152.575
D904	201	29.3563	8.1030	29.4269	-6.0421	0.0056	-0.0001	0.3344	0.0817	2.30447	2.75252	152.800
MQA8R10	202	26.6281	1.2078	30.9285	1.1572	0.0058	0.0013	0.3467	-0.0003	2.30619	2.75409	153.100
D909	203	26.1649	1.1900	30.4843	1.1426	0.0060	0.0013	0.3467	-0.0003	2.30736	2.75509	153.293
MBC8R10H	204	26.1649	1.1900	30.4843	1.1426	0.0060	0.0013	0.3467	-0.0003	2.30736	2.75509	153.293
D910	205	25.7018	1.1719	30.0390	1.1278	0.0062	0.0013	0.3466	-0.0003	2.30856	2.75612	153.489
MBC8R10V	206	25.7018	1.1719	30.0390	1.1278	0.0062	0.0013	0.3466	-0.0003	2.30856	2.75612	153.489
D954	207	18.3428	0.8329	22.7785	0.8502	0.0109	0.0013	0.3454	-0.0003	2.33560	2.77853	157.160
MA8R00H	208	18.3428	0.8329	22.7785	0.8502	0.0109	0.0013	0.3454	-0.0003	2.33560	2.77853	157.160
D955	209	17.6174	0.7917	22.0344	0.8164	0.0115	0.0013	0.3452	-0.0003	2.33955	2.78170	157.606
MYR8R04	210	13.5310	0.5994	17.8745	0.5227	0.0153	0.0012	0.2111	-0.0884	2.37066	2.80590	160.610
D956	211	13.2688	0.5770	17.6450	0.5068	0.0155	0.0012	0.1914	-0.0884	2.37331	2.80789	160.833
MA8R05	212	12.1854	0.4342	16.7110	0.5186	0.0167	0.0012	0.1230	-0.0488	2.38588	2.81718	161.836
D957	213	10.8375	0.2389	14.9386	0.3666	0.0192	0.0012	0.0252	-0.0488	2.41375	2.83740	163.838
MA8R06	214	10.3901	0.1822	14.3402	0.2670	0.0204	0.0012	0.0008	0.0000	2.42877	2.84829	164.838
D3049	215	10.0928	0.0603	13.7976	0.1754	0.0218	0.0012	0.0009	0.0000	2.44788	2.86218	166.065
IHA2C00	216	10.0928	0.0603	13.7976	0.1754	0.0218	0.0012	0.0009	0.0000	2.44788	2.86218	166.065
D3050	217	10.0591	-0.0167	13.5709	0.1176	0.0227	0.0012	0.0009	0.0000	2.46011	2.87119	166.838

MAXIMUM LATTICE FUNCTIONS :
 BETA X = 0.1661151827E+03 BETA Y = 0.1365220906E+03
 ETA X = 0.2269163885E-01 ETA Y = 0.3467301198E+00

1
 OPERATION LIST ,

MATRIX

1 -1,

AFTER :D3050 ELEMENT #: 217

 * TRANSFORMATION MATRIX *

FIRST ORDER MATRIX

- 0.3231658E+00 0.5299376E+01 -0.6521682E-14 0.1176668E-12 0.0000000E+00 0.2269164E-01
 - 0.6374614E-01 -0.2049057E+01 0.4646480E-16 0.8002055E-14 0.0000000E+00 0.1166386E-02
 - 0.3364511E-14 -0.4856275E-14 0.8017513E+00 -0.1695880E+02 0.0000000E+00 0.9081196E-03
 - 0.5552883E-15 -0.1633450E-13 -0.4296363E-02 0.1338147E+01 0.0000000E+00 0.3850230E-04
 - 0.1069568E-02 0.5267759E-01 0.3477088E-04 -0.1868151E-02 0.1000000E+01 -0.9755002E-01
 - 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.1000000E+01

HORIZONTAL MOVEMENT ANALYSIS

COMPACTION FACTOR = -0.5845799E-03 GAMMA TR = -0.4135977E+02

MOVEMENT IS UNSTABLE

HALF-TRACE = -0.11861116354213E+01
 EIGENVALUE1 = -0.54825521609029E+00
 WITH EIGENVECTOR :
 X = -0.99909916826093E+00 XP = 0.42436446367791E-01
 EIGENVALUE2 = -0.18239680547523E+01
 WITH EIGENVECTOR :
 X = -0.96215945895353E+00 XP = 0.27248701904175E+00

VERTICAL MOVEMENT ANALYSIS

MOVEMENT IS UNSTABLE

HALF-TRACE = 0.10699492168641E+01
 EIGENVALUE1 = 0.1450463719973E+01
 WITH EIGENVECTOR :
 Y = 0.99926918428561E+00 YP = -0.38224302965041E-01

EIGENVALUE2 = 0.68943466173098E+00
WITH EIGENVECTOR :
Y = 0.99997806926785E+00 YP = 0.66227625155307E-02

1

OPERATION LIST ,

HARDWARE

8.84211 4835.22 -80.6 100 -91.5251 -180 0.0 0 1 0;

VALUES ARE FOR ENERGY : 0.884E+01 GEV

THE LENGTHS ARE MEASURED IN METERS ,THE ANGLES IN DEGREES

THE SKYZ COORDINATES ,AZIMUTH,ELEVATION AND ROLL ANGLES ARE :

#	NAME	S	X	Y	Z	THETA	PHI	PSI
1	MAW8S01	4836.2204000000	-80.6000000000	100.0244180556	-92.5251025541	180.0000000000	2.7975400000	0.0000000000
2	D900	4838.2227900000	-80.6000000000	100.1221484759	-94.5251061734	180.0000000000	2.7975400000	0.0000000000
3	MAX8S02	4839.2252400000	-80.6000000000	100.1911675332	-95.5251098105	180.0000000000	5.0989100000	0.0000000000
4	D901	4839.4481680000	-80.6000000000	100.2109803367	-95.7471556301	180.0000000000	5.0989100000	0.0000000000
5	MYR8S03	4842.4521280000	-80.6000000000	100.3445575014	-98.7471521166	180.0000000000	0.0000000000	0.0000000000
6	D902	4842.7111660000	-80.6000000000	100.3445575014	-99.0061901166	180.0000000000	0.0000000000	0.0000000000
7	MBC8S00H	4842.7111660100	-80.6000000000	100.3445575014	-99.0061901266	180.0000000000	0.0000000000	0.0000000000
8	D903	4846.7339760100	-80.6000000000	100.3445575014	-103.0290001266	180.0000000000	0.0000000000	0.0000000000
9	IPM8S01	4846.7339760100	-80.6000000000	100.3445575014	-103.0290001266	180.0000000000	0.0000000000	0.0000000000
10	D904	4846.9586260100	-80.6000000000	100.3445575014	-103.2536501266	180.0000000000	0.0000000000	0.0000000000
11	MQA8S01	4847.2586260100	-80.6000000000	100.3445575014	-103.5536501266	180.0000000000	0.0000000000	0.0000000000
12	D905	4847.3767760100	-80.6000000000	100.3445575014	-103.6718001266	180.0000000000	0.0000000000	0.0000000000
13	MQD8S01S	4847.5267760100	-80.6000000000	100.3445575014	-103.8218001266	180.0000000000	0.0000000000	0.0000000000
14	D906	4847.6478660100	-80.6000000000	100.3445575014	-103.9428901266	180.0000000000	0.0000000000	0.0000000000
15	MBC8S01V	4847.6478660200	-80.6000000000	100.3445575014	-103.9428901366	180.0000000000	0.0000000000	0.0000000000
16	D907	4848.1533260200	-80.6000000000	100.3445575014	-104.4483501366	180.0000000000	0.0000000000	0.0000000000
17	ITV8S01	4848.1533260200	-80.6000000000	100.3445575014	-104.4483501366	180.0000000000	0.0000000000	0.0000000000
18	D908	4850.6339760200	-80.6000000000	100.3445575014	-106.9290001366	180.0000000000	0.0000000000	0.0000000000
19	IPM8S02	4850.6339760200	-80.6000000000	100.3445575014	-106.9290001366	180.0000000000	0.0000000000	0.0000000000
20	D904	4850.8586260200	-80.6000000000	100.3445575014	-107.1536501366	180.0000000000	0.0000000000	0.0000000000
21	MQA8S02	4851.1586260200	-80.6000000000	100.3445575014	-107.4536501366	180.0000000000	0.0000000000	0.0000000000
22	D909	4851.3517760200	-80.6000000000	100.3445575014	-107.6468001366	180.0000000000	0.0000000000	0.0000000000
23	MBC8S02H	4851.3517760300	-80.6000000000	100.3445575014	-107.6468001466	180.0000000000	0.0000000000	0.0000000000
24	D910	4851.5478660300	-80.6000000000	100.3445575014	-107.8428901466	180.0000000000	0.0000000000	0.0000000000
25	MBC8S02V	4851.5478660400	-80.6000000000	100.3445575014	-107.8428901566	180.0000000000	0.0000000000	0.0000000000
26	D911A	4853.1339760400	-80.6000000000	100.3445575014	-109.4290001566	180.0000000000	0.0000000000	0.0000000000
27	IPM8S03	4853.1339760400	-80.6000000000	100.3445575014	-109.4290001566	180.0000000000	0.0000000000	0.0000000000
28	D904	4853.3586260400	-80.6000000000	100.3445575014	-109.6536501566	180.0000000000	0.0000000000	0.0000000000
29	MQR8S03	4853.8586260400	-80.6000000000	100.3445575014	-110.1536501566	180.0000000000	0.0000000000	0.0000000000
30	D912A	4854.1478660400	-80.6000000000	100.3445575014	-110.4428901566	180.0000000000	0.0000000000	0.0000000000
31	MBC8S03V	4854.1478660500	-80.6000000000	100.3445575014	-110.4428901666	180.0000000000	0.0000000000	0.0000000000
32	D913	4854.4595260500	-80.6000000000	100.3445575014	-110.7545501666	180.0000000000	0.0000000000	0.0000000000
33	MAE8S04	4855.4595960500	-80.6000000000	100.3655977328	-111.7543249987	180.0000000000	2.4112200000	0.0000000000
34	D914	4858.1545960500	-80.6000000000	100.4789799054	-114.4469388743	180.0000000000	2.4112200000	0.0000000000
35	MAE8S06	4859.1546660500	-80.6000000000	100.5000201368	-115.4467137064	180.0000000000	0.0000000000	0.0000000000
36	D915	4860.4296260500	-80.6000000000	100.5000201368	-116.7216737064	180.0000000000	0.0000000000	0.0000000000
37	ITV8S04	4860.4296260500	-80.6000000000	100.5000201368	-116.7216737064	180.0000000000	0.0000000000	0.0000000000
38	D916	4860.7495260500	-80.6000000000	100.5000201368	-117.0415737064	180.0000000000	0.0000000000	0.0000000000
39	MQA8S04	4861.0495260500	-80.6000000000	100.5000201368	-117.3415737064	180.0000000000	0.0000000000	0.0000000000
40	D919	4861.1940260500	-80.6000000000	100.5000201368	-117.4860737064	180.0000000000	0.0000000000	0.0000000000
41	MQA8S04A	4861.4940260500	-80.6000000000	100.5000201368	-117.7860737064	180.0000000000	0.0000000000	0.0000000000
42	D917	4862.1312260500	-80.6000000000	100.5000201368	-118.4232737064	180.0000000000	0.0000000000	0.0000000000
43	IPM8S05	4862.1312260500	-80.6000000000	100.5000201368	-118.4232737064	180.0000000000	0.0000000000	0.0000000000
44	D918	4862.3495260500	-80.6000000000	100.5000201368	-118.6415737064	180.0000000000	0.0000000000	0.0000000000
45	MQA8S05	4862.6495260500	-80.6000000000	100.5000201368	-118.9415737064	180.0000000000	0.0000000000	0.0000000000
46	D919	4862.7940260500	-80.6000000000	100.5000201368	-119.0860737064	180.0000000000	0.0000000000	0.0000000000
47	MQA8S05A	4863.0940260500	-80.6000000000	100.5000201368	-119.3860737064	180.0000000000	0.0000000000	0.0000000000
48	D920	4863.2869260500	-80.6000000000	100.5000201368	-119.5789737064	180.0000000000	0.0000000000	0.0000000000
49	MBC8S05H	4863.2869260600	-80.6000000000	100.5000201368	-119.5789737164	180.0000000000	0.0000000000	0.0000000000
50	D910	4863.4830160600	-80.6000000000	100.5000201368	-119.7750637164	180.0000000000	0.0000000000	0.0000000000
51	MBC8S05V	4863.4830160700	-80.6000000000	100.5000201368	-119.7750637264	180.0000000000	0.0000000000	0.0000000000
52	D921	4863.9495260700	-80.6000000000	100.5000201368	-120.2415737264	180.0000000000	0.0000000000	0.0000000000
53	MQA8S06	4864.2495260700	-80.6000000000	100.5000201368	-120.5415737264	180.0000000000	0.0000000000	0.0000000000
54	D919	4864.3940260700	-80.6000000000	100.5000201368	-120.6860737264	180.0000000000	0.0000000000	0.0000000000
55	MQA8S06A	4864.6940260700	-80.6000000000	100.5000201368	-120.9860737264	180.0000000000	0.0000000000	0.0000000000
56	D922	4868.5312260700	-80.6000000000	100.5000201368	-124.8232737264	180.0000000000	0.0000000000	0.0000000000
57	IPM8S07	4868.5312260700	-80.6000000000	100.5000201368	-124.8232737264	180.0000000000	0.0000000000	0.0000000000
58	D918	4868.7495260700	-80.6000000000	100.5000201368	-125.0415737264	180.0000000000	0.0000000000	0.0000000000
59	MQA8S07	4869.0495260700	-80.6000000000	100.5000201368	-125.3415737264	180.0000000000	0.0000000000	0.0000000000
60	D919	4869.1940260700	-80.6000000000	100.5000201368	-125.4860737264	180.0000000000	0.0000000000	0.0000000000
61	MQA8S07A	4869.4940260700	-80.6000000000	100.5000201368	-125.7860737264	180.0000000000	0.0000000000	0.0000000000
62	D923	4869.8830160700	-80.6000000000	100.5000201368	-126.1750637264	180.0000000000	0.0000000000	0.0000000000
63	MBC8S07V	4869.8830160800	-80.6000000000	100.5000201368	-126.1750637364	180.0000000000	0.0000000000	0.0000000000
64	D924	4871.7312260800	-80.6000000000	100.5000201368	-128.0232737364	180.0000000000	0.0000000000	0.0000000000
65	IPM8S08	4871.7312260800	-80.6000000000	100.5000201368	-128.0232737364	180.0000000000	0.0000000000	0.0000000000
66	D918	4871.9495260800	-80.6000000000	100.5000201368	-128.2415737364	180.0000000000	0.0000000000	0.0000000000
67	MQA8S08	4872.2495260800	-80.6000000000	100.5000201368	-128.5415737364	180.0000000000	0.0000000000	0.0000000000
68	D919	4872.3940260800	-80.6000000000	100.5000201368	-128.6860737364	180.0000000000	0.0000000000	0.0000000000
69	MQA8S08A	4872.6940260800	-80.6000000000	100.5000201368	-128.9860737364	180.0000000000	0.0000000000	0.0000000000
70	D923	4873.0830160800	-80.6000000000	100.5000201368	-129.3750637364	180.0000000000	0.0000000000	0.0000000000
71	MBC8S08V	4873.0830160900	-80.6000000000	100.5000201368	-129.3750637464	180.0000000000	0.0000000000	0.0000000000
72	D924	4874.9312260900	-80.6000000000	100.5000201368	-131.2232737464	180.0000000000	0.0000000000	0.0000000000
73	IPM8S09	4874.9312260900	-80.6000000000	100.5000201368	-131.2232737464	180.0000000000	0.0000000000	0.0000000000
74	D918	4875.1495260900	-80.6000000000	100.5000201368	-131.4415737464	180.0000000000	0.0000000000	0.0000000000
75	MQA8S09	4875.4495260900	-80.6000000000	100.5000201368	-131.7415737464	180.0000000000	0.0000000000	0.0000000000
76	D919	4875.5940260900	-80.6000000000	100.5000201368	-131.8860737464	180.0000000000	0.0000000000	0.0000000000
77	MQA8S09A	4875.8940260900	-80.6000000000	100.5000201368	-132.1860737464	180.0000000000	0.0000000000	0.0000000000
78	D923	4876.2830160900	-80.6000000000	100.5000201368	-132.5750637464	180.0000000000	0.0000000000	0.00000000

83	MQA8S10	4878.6495261000	-80.6000000000	100.5000201368	-134.9415737564	180.0000000000	0.0000000000	0.0000000000
84	D919	4878.7940261000	-80.6000000000	100.5000201368	-135.0860737564	180.0000000000	0.0000000000	0.0000000000
85	MQA8S10A	4879.0940261000	-80.6000000000	100.5000201368	-135.3860737564	180.0000000000	0.0000000000	0.0000000000
86	D925	4879.2869261000	-80.6000000000	100.5000201368	-135.5789737564	180.0000000000	0.0000000000	0.0000000000
87	MBC8S10H	4879.2869261100	-80.6000000000	100.5000201368	-135.5789737664	180.0000000000	0.0000000000	0.0000000000
88	D910	4879.4830161100	-80.6000000000	100.5000201368	-135.7750637664	180.0000000000	0.0000000000	0.0000000000
89	MBC8S10V	4879.4830161200	-80.6000000000	100.5000201368	-135.7750637764	180.0000000000	0.0000000000	0.0000000000
90	D3024	4880.0101361200	-80.6000000000	100.5000201368	-136.3021837764	180.0000000000	0.0000000000	0.0000000000
91	RRF8T01	4880.7101361200	-80.6000124594	100.5000201368	-137.0021837763	-179.9979603700	0.0000000000	0.0000000000
92	D3025	4881.8135361200	-80.6000517385	100.5000201368	-138.1055837756	-179.9979603700	0.0000000000	0.0000000000
93	RRF8T02	4882.5135361200	-80.6000891167	100.5000201368	-138.8055837745	-179.9959207400	0.0000000000	0.0000000000
94	D3026	4883.6169361200	-80.6001676749	100.5000201368	-139.9089837717	-179.9959207400	0.0000000000	0.0000000000
95	RRF8T02	4884.3169361200	-80.6002299719	100.5000201368	-140.6089837689	-179.9938811100	0.0000000000	0.0000000000
96	D3025	4885.4203361200	-80.6003478092	100.5000201368	-141.7123837626	-179.9938811100	0.0000000000	0.0000000000
97	RRF8T02	4886.1203361200	-80.6004350250	100.5000201368	-142.4123837572	-179.9918414800	0.0000000000	0.0000000000
98	D3026A	4894.8971161200	-80.6016847773	100.5000201368	-151.1891636682	-179.9918414800	0.0000000000	0.0000000000
99	IPM8E01	4894.8971161200	-80.6016847773	100.5000201368	-151.1891636682	-179.9918414800	0.0000000000	0.0000000000
100	D3004	4895.1217661200	-80.6017167659	100.5000201368	-151.4138136659	-179.9918414800	0.0000000000	0.0000000000
101	MQC8E01	4895.4217661200	-80.6017776281	100.5000201368	-151.7138136595	-179.9849108800	0.0000000000	0.0000000000
102	D3008	4895.6149161200	-80.6018284951	100.5000201368	-151.9069636528	-179.9849108800	0.0000000000	0.0000000000
103	MBM8E01H	4895.6149161300	-80.6018284951	100.5000201368	-151.9069636628	-179.9849108800	0.0000000000	0.0000000000
104	D3009	4895.8110061300	-80.6018801363	100.5000201368	-152.1030536650	-179.9849108800	0.0000000000	0.0000000000
105	MBM8E01V	4895.8110061400	-80.6018801363	100.5000201368	-152.1030536660	-179.9849108800	0.0000000000	0.0000000000
106	D3006	4896.3164661400	-80.6020132516	100.5000201368	-152.6085136485	-179.9849108800	0.0000000000	0.0000000000
107	D3027	4896.5467661400	-80.6020739023	100.5000201368	-152.8388136405	-179.9849108800	0.0000000000	0.0000000000
108	MBY8E01	4897.5470561400	-80.6233373543	100.5000201368	-153.8388040974	-177.5788208800	0.0000000000	0.0000000000
109	D3028	4902.5514761400	-80.8347489371	100.5000201368	-158.8387565650	-177.5788208800	0.0000000000	0.0000000000
110	MBZ8E02	4904.5520661400	-80.8352756473	100.5000201368	-160.8387585367	177.6089991200	0.0000000000	0.0000000000
111	D3028	4909.5564861400	-80.6264976169	100.5000201368	-165.8388216634	177.6089991200	0.0000000000	0.0000000000
112	MBY8E03	4910.5567761400	-80.6057608724	100.5000201368	-166.8388231811	-179.9849108800	0.0000000000	0.0000000000
113	D3029	4911.4571221400	-80.6059979829	100.5000201368	-167.7391691499	-179.9849108800	0.0000000000	0.0000000000
114	IPM8E02	4911.4571221400	-80.6059979829	100.5000201368	-167.7391691499	-179.9849108800	0.0000000000	0.0000000000
115	D3004	4911.6817721400	-80.6060571455	100.5000201368	-167.9638191421	-179.9849108800	0.0000000000	0.0000000000
116	MQC8E02	4911.9817721400	-80.6060712064	100.5000201368	-168.2638191395	179.9902817200	0.0000000000	0.0000000000
117	D3008	4912.1749221400	-80.6060384450	100.5000201368	-168.4569691367	179.9902817200	0.0000000000	0.0000000000
118	MBM8E02H	4912.1749221500	-80.6060384450	100.5000201368	-168.4569691467	179.9902817200	0.0000000000	0.0000000000
119	D3009	4912.3710121500	-80.6060051850	100.5000201368	-168.6530591439	179.9902817200	0.0000000000	0.0000000000
120	MBM8E02V	4912.3710121600	-80.6060051850	100.5000201368	-168.6530591539	179.9902817200	0.0000000000	0.0000000000
121	D3006	4912.8764721600	-80.6059194509	100.5000201368	-169.1585191466	179.9902817200	0.0000000000	0.0000000000
122	ITV8E02	4912.8764721600	-80.6059194509	100.5000201368	-169.1585191466	179.9902817200	0.0000000000	0.0000000000
123	D3030	4913.1457821600	-80.6058737717	100.5000201368	-169.4278291427	179.9902817200	0.0000000000	0.0000000000
124	MYA8T01	4914.1457821600	-80.6060431868	100.5000201368	-170.4278291092	-179.9708681800	0.0000000000	0.0000000000
125	D980	4914.3457821600	-80.6061448760	100.5000201368	-170.6278290834	-179.9708681800	0.0000000000	0.0000000000
126	MYA8T01	4915.3457821600	-80.6069923531	100.5000201368	-171.6278287051	-179.9320180800	0.0000000000	0.0000000000
127	D3031A	4928.0071821600	-80.6220152062	100.5000201368	-184.2892197927	-179.9320180800	0.0000000000	0.0000000000
128	IPM8E03	4928.0071821600	-80.6220152062	100.5000201368	-184.2892197927	-179.9320180800	0.0000000000	0.0000000000
129	D3004	4928.2318321600	-80.6222817553	100.5000201368	-184.5138696346	-179.9320180800	0.0000000000	0.0000000000
130	MQC8E03	4928.5318321600	-80.6229115965	100.5000201368	-184.8138689317	-179.8274000800	0.0000000000	0.0000000000
131	D3008	4928.7249821600	-80.6234934478	100.5000201368	-185.0070180553	-179.8274000800	0.0000000000	0.0000000000
132	MBM8E03H	4928.7249821700	-80.6234934478	100.5000201368	-185.0070180653	-179.8274000800	0.0000000000	0.0000000000
133	D3009	4928.9210721700	-80.6240841557	100.5000201368	-185.2031071756	-179.8274000800	0.0000000000	0.0000000000
134	MBM8E03V	4928.9210721800	-80.6240841557	100.5000201368	-185.2031071856	-179.8274000800	0.0000000000	0.0000000000
135	D3032	4934.8570421800	-80.6419658637	100.5000201368	-191.1390502518	-179.8274000800	0.0000000000	0.0000000000
136	MYB8T02	4936.8572821800	-80.6885718324	100.5000201368	-193.1386099155	-177.5021700800	0.0000000000	0.0000000000
137	D3033A	4941.9101621800	-80.9087841664	100.5000201368	-198.1866890375	-177.5021700800	0.0000000000	0.0000000000
138	IPM8T00A	4941.9101621800	-80.9087841664	100.5000201368	-198.1866890375	-177.5021700800	0.0000000000	0.0000000000
139	D3034	4942.1895621800	-80.9209608510	100.5000201368	-198.4658235270	-177.5021700800	0.0000000000	0.0000000000
140	MBF8T03	4944.1900221800	-80.9680796850	100.5000201368	-200.4655946761	-179.7983100800	0.0000000000	0.0000000000
141	D3034A	4945.1140621800	-80.9713324406	100.5000201368	-201.3896289510	-179.7983100800	0.0000000000	0.0000000000
142	MBF8T03	4947.1145221800	-80.9382936592	100.5000201368	-203.3896822234	177.9055499200	0.0000000000	0.0000000000
143	D3035A	4955.0872521800	-80.6469150198	100.5000201368	-211.3570859499	177.9055499200	0.0000000000	0.0000000000
144	IPM8T00B	4955.0872521800	-80.6469150198	100.5000201368	-211.3570859499	177.9055499200	0.0000000000	0.0000000000
145	D3036	4955.3706521800	-80.6365576257	100.5000201368	-211.6402966213	177.9055499200	0.0000000000	0.0000000000
146	MBQ8T04	4957.3708821800	-80.6000024415	100.5000201368	-213.6400811759	179.9999999200	0.0000000000	0.0000000000
147	D3037A	4957.8700081800	-80.6000024408	100.5000201368	-214.1392071759	179.9999999200	0.0000000000	0.0000000000
148	IPM8T01	4957.8700081800	-80.6000024408	100.5000201368	-214.1392071759	179.9999999200	0.0000000000	0.0000000000
149	D3004	4958.0946581800	-80.6000024404	100.5000201368	-214.3638571759	179.9999999200	0.0000000000	0.0000000000
150	MQA8T01	4958.3946581800	-80.6000024400	100.5000201368	-214.6638571759	179.9999999200	0.0000000000	0.0000000000
151	D3008	4958.5878081800	-80.6000024398	100.5000201368	-214.8570071759	179.9999999200	0.0000000000	0.0000000000
152	MBC8T01H	4958.5878081900	-80.6000024398	100.5000201368	-214.8570071859	179.9999999200	0.0000000000	0.0000000000
153	D3009	4958.7838981800	-80.6000024395	100.5000201368	-215.0530971859	179.9999999200	0.0000000000	0.0000000000
154	MBC8T01V	4958.7838982000	-80.6000024395	100.5000201368	-215.0530971959	179.9999999200	0.0000000000	0.0000000000
155	D3038	4960.0946582000	-80.6000024376	100.5000201368	-216.3638571959	179.9999999200	0.0000000000	0.0000000000
156	MQA8T02	4960.3946582000	-80.6000024372	100.5000201368	-216.6638571959	179.9999999200	0.0000000000	0.0000000000
157	D3039	4963.8700082000	-80.6000024324	100.5000201368	-220.1392071959	179.9999999200	0.0000000000	0.0000000000
158	IPM8T03	4963.8700082000	-80.6000024324	100.5000201368	-220.1392071959	179.9999999200	0.0000000000	0.0000000000
159	D3004	4964.0946582000	-80.6000024321	100.5000201368	-220.3638571959	179.9999999200	0.0000000000	0.0000000000
160	MQA8T03	4964.3946582000	-80.6000024316	100.5000201368	-220.6638571959	179.9999999200	0.0000000000	0.0000000000
161	D3008	4964.5878082000	-80.6000024314	100.5000201368	-220.8570071959	179.9999999200	0.0000000000	0.0000000000
162	MBC8T03H	4964.5878082100	-80.6000024314	100.5000201368	-220.8570072059	179.9999999200	0.0000000000	0.0000000000
163	D3009	4964.7838982100	-80.6000024311	100.5000201368	-221.0530972059	179.9999999200	0.0000000000	

187	D904	4981.5198042600	-80.6000024077	100.3445575014	-237.7860267957	179.9999999200	0.0000000000	0.0000000000
188	MQR8R08	4982.0198042600	-80.6000024070	100.3445575014	-238.2860267957	179.9999999200	0.0000000000	0.0000000000
189	D909	4982.2129542600	-80.6000024068	100.3445575014	-238.4791768057	179.9999999200	0.0000000000	0.0000000000
190	MBC8R08H	4982.2129542700	-80.6000024068	100.3445575014	-238.4791768057	179.9999999200	0.0000000000	0.0000000000
191	D910	4982.4090442700	-80.6000024065	100.3445575014	-238.6752668057	179.9999999200	0.0000000000	0.0000000000
192	MBC8R08V	4982.4090442800	-80.6000024065	100.3445575014	-238.6752668157	179.9999999200	0.0000000000	0.0000000000
193	D911B	4983.8951542800	-80.6000024044	100.3445575014	-240.1613768157	179.9999999200	0.0000000000	0.0000000000
194	IPM8R09	4983.8951542800	-80.6000024044	100.3445575014	-240.1613768157	179.9999999200	0.0000000000	0.0000000000
195	D904	4984.1198042800	-80.6000024041	100.3445575014	-240.3860268157	179.9999999200	0.0000000000	0.0000000000
196	MQA8R09	4984.4198042800	-80.6000024037	100.3445575014	-240.6860268157	179.9999999200	0.0000000000	0.0000000000
197	D909	4984.6129542800	-80.6000024034	100.3445575014	-240.8791768157	179.9999999200	0.0000000000	0.0000000000
198	MBC8R09H	4984.6129542900	-80.6000024034	100.3445575014	-240.8791768257	179.9999999200	0.0000000000	0.0000000000
199	D953	4987.7951542900	-80.6000023990	100.3445575014	-244.0613768257	179.9999999200	0.0000000000	0.0000000000
200	IPM8R10	4987.7951542900	-80.6000023990	100.3445575014	-244.0613768257	179.9999999200	0.0000000000	0.0000000000
201	D904	4988.0198042900	-80.6000023987	100.3445575014	-244.2860268257	179.9999999200	0.0000000000	0.0000000000
202	MQA8R10	4988.3198042900	-80.6000023982	100.3445575014	-244.5860268257	179.9999999200	0.0000000000	0.0000000000
203	D909	4988.5129542900	-80.6000023980	100.3445575014	-244.7791768257	179.9999999200	0.0000000000	0.0000000000
204	MBC8R10H	4988.5129543000	-80.6000023980	100.3445575014	-244.7791768357	179.9999999200	0.0000000000	0.0000000000
205	D910	4988.7090443000	-80.6000023977	100.3445575014	-244.9752668357	179.9999999200	0.0000000000	0.0000000000
206	MBC8R10V	4988.7090443100	-80.6000023977	100.3445575014	-244.9752668457	179.9999999200	0.0000000000	0.0000000000
207	D954	4992.3798043100	-80.6000023926	100.3445575014	-248.6460268457	179.9999999200	0.0000000000	0.0000000000
208	MAR8RAAH	4992.3798043200	-80.6000023926	100.3445575014	-248.6460268557	179.9999999200	0.0000000000	0.0000000000
209	D955	4992.8263243200	-80.6000023920	100.3445575014	-249.0925468557	179.9999999200	0.0000000000	0.0000000000
210	MYR8R04	4995.8302843200	-80.6000023878	100.2109803367	-252.0925433422	179.9999999200	-5.0989100000	0.0000000000
211	D956	4996.0532123200	-80.6000023875	100.1911675332	-252.3145891618	179.9999999200	-5.0989100000	0.0000000000
212	MAX8R05	4997.0556623200	-80.6000023861	100.1221484759	-253.3145927990	179.9999999200	-2.7975400000	0.0000000000
213	D957	4999.0580523200	-80.6000023833	100.0244180556	-255.3145964182	179.9999999200	-2.7975400000	0.0000000000
214	MAW8R06	5000.0584523200	-80.6000023819	100.0000000000	-256.3145989723	179.9999999200	0.0000000000	0.0000000000
215	D3049	5001.2846723200	-80.6000023802	100.0000000000	-257.5408189723	179.9999999200	0.0000000000	0.0000000000
216	IHA2C00	5001.2846723200	-80.6000023802	100.0000000000	-257.5408189723	179.9999999200	0.0000000000	0.0000000000
217	D3050	5002.0584723200	-80.6000023791	100.0000000000	-258.3146189723	179.9999999200	0.0000000000	0.0000000000

1

285 STOP

bsyA.outd

LDIMAT VERSION 2.9 PROD
ODATE AND TIME OF THIS RUN: 12-JUN-2007 14:34:13

XSIF Parser Version 2.1
Version Date: 01-JAN-2004
Run: 12-JUN-2007 14:34:13
XSIF Parser developed by NLC Department,
Stanford Linear Accelerator Center.

UTRANSPORT

TITLE
CONVERTED FROM BSYA.OPT

5
MAWAS01: SBEND, L=1.00026, ANGLE=2.24359, K1=-0, &
E1=0, E2=2.2436, HGAP=0.01905, &
HGAPX=0.0190501, &
FINT=0.5, TILT=90

10
D60000: DRIFT, L=2.00153
MAXAS02: SBEND, L=1.00157, ANGLE=1.84477, K1=-0, &
E1=-2.2436, E2=4.0884, HGAP=0.023749, &
HGAPX=0.0237493, &
FINT=0.5, TILT=90

15
D60001: DRIFT, L=0.22338
MYRAS03: SBEND, L=3.00255, ANGLE=-4.08837, K1=-0, &
E1=4.0884, E2=-0, HGAP=0.0127002, &
HGAPX=0.0127, &
FINT=0.5, TILT=90

20
D60002: DRIFT, L=0.265765
MEMAS00H: GKICK, L=1E-08, DXP=0, DYP=0
D60003: DRIFT, L=0.15726
IPMAS01: MONITOR, L=0
D60004: DRIFT, L=0.18546

25
MYRAS04: SBEND, L=3.00255, ANGLE=-4.08837, K1=-0, &
E1=-0, E2=4.0884, HGAP=0.0127, &
HGAPX=0.0127002, &
FINT=0.5, TILT=90

30
D60005C: DRIFT, L=0.17218
IPMAS01A: MONITOR, L=0
D60005D: DRIFT, L=0.2
MQAAS01: QUADRUPOLE, L=0.3, K1=0.0312765, TILT=0
D60005E: DRIFT, L=0.7

35
MAHAS06: SBEND, L=2.00042, ANGLE=4.08837, K1=-0, &
E1=2.0442, E2=2.0442, HGAP=0.0190625, &
HGAPX=0.0189895, &
FINT=0.5, TILT=90

D60006: DRIFT, L=1.20518
IPMAS02: MONITOR, L=0

40
D90004: DRIFT, L=0.22465
MQAAS02: QUADRUPOLE, L=0.3, K1=-0.788857, TILT=0
D90009: DRIFT, L=0.19315
MBCAS02H: GKICK, L=1E-08, DXP=0, DYP=0
D90010: DRIFT, L=0.19609

45
MBCAS02V: GKICK, L=1E-08, DXP=0, DYP=0
D90011A: DRIFT, L=1.58611
IPMAS03: MONITOR, L=0
MQAAS03: QUADRUPOLE, L=0.3, K1=0.554214, TILT=0
D90012A: DRIFT, L=0.48924

50
MBCAS03V: GKICK, L=1E-08, DXP=0, DYP=0
MBCAS03H: GKICK, L=1E-08, DXP=0, DYP=0
D90013: DRIFT, L=0.31166
DIP: DRIFT, L=1.00007

55 D90014: DRIFT, L=2.69203
D90015: DRIFT, L=1.27496
ITVAS04: MONITOR, L=0
D90016: DRIFT, L=0.3199
IPMAS04: MONITOR, L=0
MQAAS04: QUADRUPOLE, L=0.3, K1=-0.86702, TILT=0
60 D90019: DRIFT, L=0.1445
MBCAS04V: GKICK, L=1E-08, DXP=0, DYP=0
MBCAS04H: GKICK, L=1E-08, DXP=0, DYP=0
QUAD: DRIFT, L=0.3
D90017: DRIFT, L=0.6372
65 IPMAS05: MONITOR, L=0
D90018: DRIFT, L=0.2183
MQAAS05: QUADRUPOLE, L=0.3, K1=0.0376209, TILT=0
D90020: DRIFT, L=0.1929
MBCAS05H: GKICK, L=1E-08, DXP=0, DYP=0
70 MBCAS05V: GKICK, L=1E-08, DXP=0, DYP=0
D90021: DRIFT, L=0.46651
IPMAS06: MONITOR, L=0
MQAAS06: QUADRUPOLE, L=0.3, K1=0.753533, TILT=0
MBCAS06V: GKICK, L=1E-08, DXP=0, DYP=0
75 MBCAS06H: GKICK, L=1E-08, DXP=0, DYP=0
D90022: DRIFT, L=3.8372
IPMAS07: MONITOR, L=0
MQAAS07: QUADRUPOLE, L=0.3, K1=-0.88871, TILT=0
D90023: DRIFT, L=0.38899
80 MBCAS07V: GKICK, L=1E-08, DXP=0, DYP=0
D90024: DRIFT, L=1.84821
IPMAS08: MONITOR, L=0
MQAAS08: QUADRUPOLE, L=0.3, K1=0.701595, TILT=0
MQAAS08A: QUADRUPOLE, L=0.3, K1=0.743194, TILT=0
85 MBCAS08H: GKICK, L=1E-08, DXP=0, DYP=0
IPMAS09: MONITOR, L=0
MQAAS09: QUADRUPOLE, L=0.3, K1=-0.97978, TILT=0
MBCAS09V: GKICK, L=1E-08, DXP=0, DYP=0
MBCAS09H: GKICK, L=1E-08, DXP=0, DYP=0
90 IPMAS10: MONITOR, L=0
MQAAS10: QUADRUPOLE, L=0.3, K1=0.656833, TILT=0
MQAAS10A: QUADRUPOLE, L=0.3, K1=0.543939, TILT=0
D90025: DRIFT, L=0.1929
MBCAS10H: GKICK, L=1E-08, DXP=0, DYP=0
95 MBCAS10V: GKICK, L=1E-08, DXP=0, DYP=0
D3024: DRIFT, L=0.52712
RRFAT01: SBEND, L=0.7, ANGLE=-0.00203963, K1=-0, &
E1=-0, E2=-0, HGAP=0, &
HGAPX=0, &
100 FINT=0.5, TILT=0
D3025: DRIFT, L=1.1034
RRFAT02: SBEND, L=0.7, ANGLE=-0.00203963, K1=-0, &
E1=-0, E2=-0, HGAP=0, &
HGAPX=0, &
105 FINT=0.5, TILT=0
D3026A: DRIFT, L=8.77678
IPMAE01: MONITOR, L=0
D3004: DRIFT, L=0.22465
MQCAE01: SBEND, L=0.3, ANGLE=-0.0069306, K1=2.28513E+06, &
110 E1=0.00572958, E2=-0.0126602, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
D3008: DRIFT, L=0.19315
MBMAE01H: GKICK, L=1E-08, DXP=0, DYP=0
115 D3009: DRIFT, L=0.19609
MBMAE01V: GKICK, L=1E-08, DXP=0, DYP=0
D3006: DRIFT, L=0.50546
D3027: DRIFT, L=0.2303
DBY: DRIFT, L=1.00029
120 D3028: DRIFT, L=5.00442
DBZ: DRIFT, L=2.00059
D3029: DRIFT, L=0.890346
IPMAE02: MONITOR, L=0
MQCAE02: SBEND, L=0.3, ANGLE=0.0248074, K1=-168630, &
125 E1=0.0126602, E2=0.0121472, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
MBMAE02H: GKICK, L=1E-08, DXP=0, DYP=0
MBMAE02V: GKICK, L=1E-08, DXP=0, DYP=0
130 ITVAE02: MONITOR, L=0
D3030: DRIFT, L=0.26931
MYAAT01: SBEND, L=1, ANGLE=-0.0388501, K1=-0, &
E1=-0.0121472, E2=-0.0640562, HGAP=0, &
HGAPX=0, &
135 FINT=0.5, TILT=0
D980: DRIFT, L=0.2
D3031A: DRIFT, L=12.6614
IPMAE03: MONITOR, L=0
MQCAE03: SBEND, L=0.3, ANGLE=-0.104618, K1=8982.91, &
140 E1=-0.0640562, E2=-0.168674, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
MBMAE03H: GKICK, L=1E-08, DXP=0, DYP=0
MBMAE03V: GKICK, L=1E-08, DXP=0, DYP=0
145 D3032: DRIFT, L=5.93597
MYRAT02: SBEND, L=2.00024, ANGLE=-2.32523, K1=-0, &
E1=0.168674, E2=-2.10347, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
150 D3033A: DRIFT, L=5.05288
IPMAT00A: MONITOR, L=0
D3034: DRIFT, L=0.2794
MBPAT03: SBEND, L=2.00046, ANGLE=2.29614, K1=-0, &
E1=2.11671, E2=2.13229, HGAP=0, &
155 HGAPX=0, &
FINT=0.5, TILT=0
D3034A: DRIFT, L=0.92404

D3035A: DRIFT, L=7.97273
 IPMAT00B: MONITOR, L=0
 160 D3036: DRIFT, L=0.2834
 MBPAT04: SBEND, L=2.00023, ANGLE=-2.09445, K1=-0, &
 E1=-2.14553, E2=-0, HGAP=0, &
 HGAPX=0, &
 FINT=0.5, TILT=0
 165 D3037A: DRIFT, L=0.499126
 IPMAT01: MONITOR, L=0
 D111: DRIFT, L=0.22465
 MQAAT01: QUADRUPOLE, L=0.3, K1=0.723046, TILT=0
 D108: DRIFT, L=0.19315
 170 MBCAT01H: GKICK, L=1E-08, DXP=0, DYP=0
 D109: DRIFT, L=0.19609
 MBCAT01V: GKICK, L=1E-08, DXP=0, DYP=0
 D116: DRIFT, L=0.508
 IPMAT02: MONITOR, L=0
 175 MQAAT02: QUADRUPOLE, L=0.3, K1=-0.766118, TILT=0
 MBCAT02H: GKICK, L=1E-08, DXP=0, DYP=0
 MBDAT02V: GKICK, L=1E-08, DXP=2.58118E-30, DYP=4.21553E-14
 D116A: DRIFT, L=0.71413
 RRRFAT03: GKICK, L=0.73126, DXP=0, DYP=0
 180 RRRFAT04: GKICK, L=0.73126, DXP=0, DYP=0
 RRRFAT05: GKICK, L=0.73126, DXP=0, DYP=0
 RRRFAT06: GKICK, L=0.73126, DXP=0, DYP=0
 RRRFAT07: GKICK, L=0.73126, DXP=0, DYP=0
 RRRFAT08: GKICK, L=0.73126, DXP=0, DYP=0
 185 RRRFAT09: GKICK, L=0.73126, DXP=0, DYP=0
 RRRFAT10: GKICK, L=0.73126, DXP=0, DYP=0
 IPMAT03: MONITOR, L=0
 D118: DRIFT, L=0.2016
 MQCAT03: QUADRUPOLE, L=0.3, K1=0.0133397, TILT=0
 190 D119: DRIFT, L=0.1444
 D120: DRIFT, L=0.29055
 MBMAT03H: GKICK, L=1E-08, DXP=0, DYP=0
 D121: DRIFT, L=0.26515
 MBMAT03V: GKICK, L=1E-08, DXP=0, DYP=0
 195 D133: DRIFT, L=0.6
 IPMAT04: MONITOR, L=0
 MQCAT04: QUADRUPOLE, L=0.3, K1=0.00213325, TILT=0
 MBMAT04H: GKICK, L=1E-08, DXP=0, DYP=0
 MBMAT04V: GKICK, L=1E-08, DXP=0, DYP=0
 200 IPMAT05: MONITOR, L=0
 MQCAT05: QUADRUPOLE, L=0.3, K1=0, TILT=0
 MBMAT05H: GKICK, L=1E-08, DXP=0, DYP=0
 MBMAT05V: GKICK, L=1E-08, DXP=0, DYP=0
 D134: DRIFT, L=0.3
 205 IHAAT05: MONITOR, L=0
 IPMAT07: MONITOR, L=0
 MQCAT07: QUADRUPOLE, L=0.3, K1=-0.000544687, TILT=0
 MBMAT07H: GKICK, L=1E-08, DXP=0, DYP=0
 MBMAT07V: GKICK, L=1E-08, DXP=0, DYP=0
 210 IPMAT08: MONITOR, L=0
 MQCAT08: QUADRUPOLE, L=0.3, K1=0.00682515, TILT=0
 MBMAT08H: GKICK, L=1E-08, DXP=0, DYP=0
 MBMAT08V: GKICK, L=1E-08, DXP=0, DYP=0
 IPMAT09: MONITOR, L=0
 215 MQCAT09: QUADRUPOLE, L=0.3, K1=-0.00370541, TILT=0
 MBMAT09H: GKICK, L=1E-08, DXP=0, DYP=0
 MBMAT09V: GKICK, L=1E-08, DXP=0, DYP=0
 IPMAT10: MONITOR, L=0
 MQCAT10: QUADRUPOLE, L=0.3, K1=0.0155907, TILT=0
 220 MBMAT10H: GKICK, L=1E-08, DXP=0, DYP=0
 MBMAT10V: GKICK, L=1E-08, DXP=0, DYP=0
 D90053A: DRIFT, L=0.69466
 AMAHAR01: GKICK, L=1E-08, DXP=0, DYP=0
 MAHAR01: SBEND, L=2.00042, ANGLE=4.08837, K1=-0, &
 225 E1=2.0442, E2=2.0442, HGAP=0.0189895, &
 HGAPX=0.0190625, &
 FINT=0.5, TILT=90
 D60005A: DRIFT, L=0.67218
 ITVAT10: MONITOR, L=0
 230 D60005B: DRIFT, L=0.7
 MYRAR03: SBEND, L=3.00255, ANGLE=-4.08837, K1=-0, &
 E1=4.0884, E2=-0, HGAP=0.0127002, &
 HGAPX=0.0127, &
 FINT=0.5, TILT=90
 235 ITVAR00: MONITOR, L=0
 MYRAR04: SBEND, L=3.00255, ANGLE=-4.08837, K1=-0, &
 E1=-0, E2=4.0884, HGAP=0.0127, &
 HGAPX=0.0127002, &
 FINT=0.5, TILT=90
 240 MAXAR05: SBEND, L=1.00157, ANGLE=1.84477, K1=-0, &
 E1=4.0884, E2=-2.2436, HGAP=0.0237493, &
 HGAPX=0.023749, &
 FINT=0.5, TILT=90
 MAWAR06: SBEND, L=1.00026, ANGLE=2.24359, K1=-0, &
 245 E1=2.2436, E2=0, HGAP=0.0190501, &
 HGAPX=0.01905, &
 FINT=0.5, TILT=90
 D132: DRIFT, L=1.22622
 IHA2C00: MONITOR, L=0
 250 D123: DRIFT, L=2
 BSYA: LINE=(MAWAS01, &
 D60000, MAXAS02, D60001, MYRAS03, D60002, &
 MBMAS00H, D60003, IPMAS01, D60004, MYRAS04, &
 255 D60005C, IPMAS01A, D60005D, MQAAS01, D60005E, &
 MAHAS06, D60006, IPMAS02, D90004, MQAAS02, &
 D90009, MBCAS02H, D90010, MBCAS02V, D90011A, &
 IPMAS03, D90004, MQAAS03, D90012A, MBCAS03V, &
 MBCAS03H, D90013, DIP, D90014, DIP, &
 260 D90015, ITVAS04, D90016, IPMAS04, MQAAS04, &
 D90019, MBCAS04V, MBCAS04H, QUAD, D90017, &

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IPMAS05, D90018, MQAAS05, D90020, MBCAS05H, &
D90010, MBCAS05V, D90019, QUAD, D90021, &
265 IPMAS06, MQAAS06, D90019, MBCAS06V, MBCAS06H, &
QUAD, D90022, IPMAS07, D90018, MQAAS07, &
D90023, MBCAS07V, D90019, QUAD, D90024, &
IPMAS08, D90018, MQAAS08, D90019, MQAAS08A, &
D90023, MBCAS08H, D90024, IPMAS09, D90018, &
MQAAS09, D90023, MBCAS09V, MBCAS09H, D90019, &
270 QUAD, D90024, IPMAS10, D90018, MQAAS10, &
D90019, MQAAS10A, D90025, MBCAS10H, D90010, &
MBCAS10V, D3024, RRFAT01, D3025, RRFAT02, &
D3025, RRFAT02, D3025, RRFAT02, D3026A, &
IPMAE01, D3004, MQCAE01, D3008, MBMAE01H, &
275 D3009, MBMAE01V, D3006, D3027, DBY, &
D3028, DBZ, D3028, DBY, D3029, &
IPMAE02, D3004, MQCAE02, D3008, MBMAE02H, &
D3009, MBMAE02V, D3006, ITVAE02, D3030, &
MYAAT01, D980, MYAAT01, D3031A, IPMAE03, &
280 D3004, MQCAE03, D3008, MBMAE03H, D3009, &
MBMAE03V, D3032, MYRAT02, D3033A, IPMAT00A, &
D3034, MBPAT03, D3034A, MBPAT03, D3035A, &
IPMAT00B, D3036, MBPAT04, D3037A, IPMAT01, &
D111, MQAAT01, D108, MBCAT01H, D109, &
285 MBCAT01V, D116, IPMAT02, D111, MQAAT02, &
D108, MBCAT02H, D109, MBDAT02V, D116A, &
RRRFAT03, D116, RRRFAT04, D116, RRRFAT05, &
D116, RRRFAT06, D116, RRRFAT07, D116, &
RRRFAT08, D116, RRRFAT09, D116, RRRFAT10, &
290 D116A, IPMAT03, D118, MQCAT03, D119, &
QUAD, D120, MMBMAT03H, D121, MMBMAT03V, &
D133, IPMAT04, D118, MQCAT04, D119, &
QUAD, D120, MMBMAT04H, D121, MMBMAT04V, &
D133, IPMAT05, D118, MQCAT05, D119, &
295 QUAD, D120, MMBMAT05H, D121, MMBMAT05V, &
D134, IHAAT05, D134, IPMAT07, D118, &
MQCAT07, D119, QUAD, D120, MMBMAT07H, &
D121, MMBMAT07V, D133, IPMAT08, D118, &
MQCAT08, D119, QUAD, D120, MMBMAT08H, &
300 D121, MMBMAT08V, D133, IPMAT09, D118, &
MQCAT09, D119, QUAD, D120, MMBMAT09H, &
D121, MMBMAT09V, D133, IPMAT10, D118, &
MQCAT10, D119, QUAD, D120, MMBMAT10H, &
D121, MMBMAT10V, D90053A, AMAHAR01, MAHAR01, &
305 D60005A, ITVAT10, D60005B, MYRAR03, D60004, &
ITVAR00, D60003, D60002, MYRAR04, D60001, &
MAXAR05, D60000, MAWAR06, D132, IHA2C00, &
D123)
USE, BSYA
310 DIMAT

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*****
* DIMAD PROGRAM : LAST MODIFIED ON May 27, 2005 *
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1
CONVERTED FROM BSYA.OPT

TOTAL LENGTH OF MACHINE IS: 168.057 METERS

IN THIS RUN THERE ARE :
188 DISTINCT ELEMENTS. ALLOCATED MXELMD : 189
277 ELEMENTS IN MACHINE. ALLOCATED MXPOS_D : 279
40 MATRICES DEFINED. ALLOCATED MAXMAT : 41
1135 VALUES IN ELDAT. ALLOCATED MAXDAT : 1135
0 LCAVs. ALLOCATED MX_LCAV : 1

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1
OPERATION LIST ,
MACHINE

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1 2 1 0 1 1 1
68.4879 1.45858 0 0
45.6821 -0.885022 0 0
0,

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ELEMENT	#	BETAX	ALPHAX	BETAY	ALPHAY	ETAX	ETAPX	ETAY	ETAPY	NUX	NUY	ACC. LEN
\$\$INITIAL\$\$	0	68.4879	1.4586	45.6821	-0.8850	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.000
MAWAS01	1	65.6196	1.5097	47.4198	-0.9241	0.0000	0.0000	0.0196	0.0392	0.00237	0.00342	1.000
D60000	2	59.7763	1.4097	51.2756	-1.0023	0.0000	0.0000	0.0980	0.0392	0.00746	0.00988	3.002
MAXAS02	3	57.1529	1.4163	53.1364	-1.0416	0.0000	0.0000	0.1532	0.0715	0.01019	0.01294	4.003
D60001	4	56.5228	1.4046	53.6037	-1.0503	0.0000	0.0000	0.1691	0.0715	0.01081	0.01360	4.227
MYRAS03	5	49.0997	1.1638	59.3946	-0.9661	0.0000	0.0000	0.2752	-0.0006	0.01989	0.02207	7.229

D60002	6	48.4845	1.1510	59.9105	-0.9748	0.0000	0.0000	0.2751	-0.0006	0.02076	0.02278	7.495
MBMAS00H	7	48.4845	1.1510	59.9105	-0.9748	0.0000	0.0000	0.2751	-0.0006	0.02076	0.02278	7.495
D60003	8	48.1237	1.1435	60.2178	-0.9799	0.0000	0.0000	0.2750	-0.0006	0.02128	0.02319	7.652
IPMAS01	9	48.1237	1.1435	60.2178	-0.9799	0.0000	0.0000	0.2750	-0.0006	0.02128	0.02319	7.652
D60004	10	47.7012	1.1346	60.5824	-0.9859	0.0000	0.0000	0.2749	-0.0006	0.02189	0.02368	7.838
MYRAS04	11	41.3221	0.9198	66.4680	-0.8580	0.0000	0.0000	0.1654	-0.0726	0.03266	0.03121	10.840
D60005C	12	41.0067	0.9121	66.7642	-0.8625	0.0000	0.0000	0.1529	-0.0726	0.03333	0.03162	11.013
IPMAS01A	13	41.0067	0.9121	66.7642	-0.8625	0.0000	0.0000	0.1529	-0.0726	0.03333	0.03162	11.013
D60005D	14	40.6436	0.9032	67.1103	-0.8677	0.0000	0.0000	0.1383	-0.0726	0.03411	0.03210	11.213
MQAAS01	15	39.9924	1.2654	67.8234	-1.5114	0.0000	0.0000	0.1167	-0.0714	0.03529	0.03280	11.513
D60005E	16	38.2528	1.2199	69.9630	-1.5453	0.0000	0.0000	0.0667	-0.0714	0.03814	0.03442	12.213
MAHAS06	17	33.4539	1.1731	76.3335	-1.6420	0.0000	0.0000	-0.0047	0.0000	0.04705	0.03877	14.213
D60006	18	30.7295	1.0875	80.3618	-1.7004	0.0000	0.0000	-0.0047	0.0000	0.05303	0.04122	15.418
IPMAS02	19	30.7295	1.0875	80.3618	-1.7004	0.0000	0.0000	-0.0047	0.0000	0.05303	0.04122	15.418
D90004	20	30.2445	1.0715	81.1282	-1.7113	0.0000	0.0000	-0.0047	0.0000	0.05420	0.04167	15.643
MQAAS02	21	31.7758	-6.2962	76.4865	16.8158	0.0000	0.0000	-0.0046	0.0011	0.05576	0.04227	15.943
D90009	22	34.2558	-6.5433	70.1289	16.0992	0.0000	0.0000	-0.0043	0.0011	0.05669	0.04269	16.136
MBCAS02H	23	34.2558	-6.5433	70.1289	16.0992	0.0000	0.0000	-0.0043	0.0011	0.05669	0.04269	16.136
D90010	24	36.8711	-6.7941	63.9578	15.3717	0.0000	0.0000	-0.0041	0.0011	0.05757	0.04315	16.332
MBCAS02V	25	36.8711	-6.7941	63.9578	15.3717	0.0000	0.0000	-0.0041	0.0011	0.05757	0.04315	16.332
D90011A	26	61.6411	-8.8228	24.5290	9.4871	0.0000	0.0000	-0.0024	0.0011	0.06287	0.04953	17.918
IPMAS03	27	61.6411	-8.8228	24.5290	9.4871	0.0000	0.0000	-0.0024	0.0011	0.06287	0.04953	17.918
D90004	28	65.6697	-9.1101	20.4537	8.6536	0.0000	0.0000	-0.0022	0.0011	0.06343	0.05112	18.143
MQAAS03	29	67.8476	1.9717	16.4640	4.8660	0.0000	0.0000	-0.0019	0.0007	0.06414	0.05375	18.443
D90012A	30	65.9355	1.9364	12.0615	4.1327	0.0000	0.0000	-0.0016	0.0007	0.06530	0.05927	18.932
MBCAS03V	31	65.9355	1.9364	12.0615	4.1327	0.0000	0.0000	-0.0016	0.0007	0.06530	0.05927	18.932
MBCAS03H	32	65.9355	1.9364	12.0615	4.1327	0.0000	0.0000	-0.0016	0.0007	0.06530	0.05927	18.932
D90013	33	64.7355	1.9140	9.6311	3.6655	0.0000	0.0000	-0.0013	0.0007	0.06606	0.06388	19.244
DIP	34	60.9793	1.8419	3.7986	2.1665	0.0000	0.0000	-0.0006	0.0007	0.06860	0.09031	20.244
D90014	35	51.5842	1.6480	2.9966	-1.8686	0.0000	0.0000	0.0014	0.0007	0.07624	0.44328	22.936
DIP	36	48.3600	1.5760	8.2331	-3.3676	0.0000	0.0000	0.0021	0.0007	0.07942	0.47555	23.936
D90015	37	44.4584	1.4841	19.2566	-5.2786	0.0000	0.0000	0.0030	0.0007	0.08380	0.49169	25.211
ITVAS04	38	44.4584	1.4841	19.2566	-5.2786	0.0000	0.0000	0.0030	0.0007	0.08380	0.49169	25.211
D90016	39	43.5163	1.4611	22.7873	-5.7581	0.0000	0.0000	0.0032	0.0007	0.08496	0.49412	25.531
IPMAS04	40	43.5163	1.4611	22.7873	-5.7581	0.0000	0.0000	0.0032	0.0007	0.08496	0.49412	25.531
MQAAS04	41	46.0848	-10.2446	24.4643	0.3143	0.0000	0.0000	0.0033	-0.0001	0.08604	0.49612	25.831
D90019	42	49.0935	-10.5768	24.3744	0.3078	0.0000	0.0000	0.0033	-0.0001	0.08652	0.49706	25.975
MBCAS04V	43	49.0935	-10.5768	24.3744	0.3078	0.0000	0.0000	0.0033	-0.0001	0.08652	0.49706	25.975
MBCAS04H	44	49.0935	-10.5768	24.3744	0.3078	0.0000	0.0000	0.0033	-0.0001	0.08652	0.49706	25.975
QUAD	45	55.6465	-11.2665	24.1937	0.2943	0.0000	0.0000	0.0033	-0.0001	0.08744	0.49902	26.275
D90017	46	70.9380	-12.7314	23.8369	0.2657	0.0000	0.0000	0.0032	-0.0001	0.08905	0.50325	26.912
IPMAS05	47	70.9380	-12.7314	23.8369	0.2657	0.0000	0.0000	0.0032	-0.0001	0.08905	0.50325	26.912
D90018	48	76.6061	-13.2333	23.7230	0.2559	0.0000	0.0000	0.0032	-0.0001	0.08952	0.50471	27.131
MQAAS05	49	84.4758	-12.9693	23.6536	-0.0242	0.0000	0.0000	0.0031	-0.0001	0.09011	0.50673	27.431
D90020	50	89.5539	-13.3557	23.6645	-0.0324	0.0000	0.0000	0.0031	-0.0001	0.09047	0.50802	27.624
MBCAS05H	51	89.5539	-13.3557	23.6645	-0.0324	0.0000	0.0000	0.0031	-0.0001	0.09047	0.50802	27.624
D90010	52	94.8687	-13.7485	23.6788	-0.0407	0.0000	0.0000	0.0031	-0.0001	0.09081	0.50934	27.820
MBCAS05V	53	94.8687	-13.7485	23.6788	-0.0407	0.0000	0.0000	0.0031	-0.0001	0.09081	0.50934	27.820
D90019	54	98.8838	-14.0379	23.6915	-0.0468	0.0000	0.0000	0.0031	-0.0001	0.09104	0.51031	27.964
QUAD	55	107.4868	-14.6388	23.7233	-0.0595	0.0000	0.0000	0.0030	-0.0001	0.09151	0.51233	28.264
D90021	56	121.5810	-15.5732	23.7880	-0.0792	0.0000	0.0000	0.0030	-0.0001	0.09216	0.51545	28.731
IPMAS06	57	121.5810	-15.5732	23.7880	-0.0792	0.0000	0.0000	0.0030	-0.0001	0.09216	0.51545	28.731
MQAAS06	58	122.6237	-12.1764	25.4917	-5.7274	0.0000	0.0000	0.0031	0.0006	0.09254	0.51741	29.031
D90019	59	119.1302	12.0005	27.1746	-5.9190	0.0000	0.0000	0.0032	0.0006	0.09273	0.51829	29.175
MBCAS06V	60	119.1302	12.0005	27.1746	-5.9190	0.0000	0.0000	0.0032	0.0006	0.09273	0.51829	29.175
MBCAS06H	61	119.1302	12.0005	27.1746	-5.9190	0.0000	0.0000	0.0032	0.0006	0.09273	0.51829	29.175
QUAD	62	112.0394	11.6353	30.8454	-6.3169	0.0000	0.0000	0.0033	0.0006	0.09315	0.51994	29.475
D90022	63	40.6684	6.9645	98.8485	-11.4052	0.0000	0.0000	0.0056	0.0006	0.10220	0.53101	33.312
IPMAS07	64	40.6684	6.9645	98.8485	-11.4052	0.0000	0.0000	0.0056	0.0006	0.10220	0.53101	33.312
D90018	65	37.6857	6.6987	103.8912	-11.6947	0.0000	0.0000	0.0057	0.0006	0.10309	0.53135	33.531
MQAAS07	66	36.6566	-3.1777	102.5655	15.9950	0.0000	0.0000	0.0057	-0.0009	0.10439	0.53181	33.831
D90023	67	39.1746	-3.2954	90.5007	15.0209	0.0000	0.0000	0.0053	-0.0009	0.10602	0.53245	34.220
MBCAS07V	68	39.1746	-3.2954	90.5007	15.0209	0.0000	0.0000	0.0053	-0.0009	0.10602	0.53245	34.220
D90019	69	40.1333	-3.3392	86.2119	14.6591	0.0000	0.0000	0.0052	-0.0009	0.10660	0.53271	34.364
QUAD	70	42.1640	-3.4300	77.6418	13.9078	0.0000	0.0000	0.0049	-0.0009	0.10776	0.53329	34.664
D90024	71	55.8768	-3.9895	34.7866	9.2796	0.0000	0.0000	0.0031	-0.0009	0.11382	0.53895	36.512
IPMAS08	72	55.8768	-3.9895	34.7866	9.2796	0.0000	0.0000	0.0031	-0.0009	0.11382	0.53895	36.512
D90018	73	57.6331	-4.0556	30.8544	8.7330	0.0000	0.0000	0.0029	-0.0009	0.11444	0.54001	36.731
MQAAS08	74	56.4288	7.9851	27.6111	2.3049	0.0000	0.0000	0.0027	-0.0003	0.11526	0.54167	37.031
D90019	75	54.1450	7.8193	26.9497	2.2719	0.0000	0.0000	0.0027	-0.0003	0.11568	0.54251	37.175
MQAAS08A	76	46.2193	18.0081	27.3892	-3.7693	0.0000	0.0000	0.0027	0.0003	0.11662	0.54429	37.475
D90023	77	33.2743	15.2704	30.4056	-3.9853	0.0000	0.0000	0.0028	0.0003	0.11820	0.54643	37.864
MBCAS08H	78	33.2743	15.2704	30.4056	-3.9853	0.0000	0.0000	0.0028	0.0003	0.11820	0.54643	37.864
D90024	79	0.8695	2.2626	47.0334	-5.0114	0.0000	0.0000	0.0032	0.0003	0.17403	0.55421	39.712
IPMAS09	80	0.8695	2.2626	47.0334	-5.0114	0.0000	0.0000	0.0032	0.0003	0.17403	0.55421	39.712
D90018	81	0.2170	0.7262	49.2479	-5.1327	0.0000	0.0000	0.0033	0.0003	0.25783	0.55494	39.931
MQAAS09	82	0.4272	-1.4472	47.9816	9.2288	0.0000	0.0000	0.0032	-0.0007	0.50491	0.55590	40.231
D90023	83	2.6492	-4.2650	41.0735	8.5302	0.0000	0.0000	0.0029	-0.0007	0.56449	0.55730	40.620
MBCAS09V	84	2.6492	-4.2650	41.0735	8.5302	0.0000	0.0000	0.0029	-0.0007	0.56449	0.55730	40.620
MBCAS09H	85	2.6492	-4.2650	41.0735	8.5302	0.0000	0.0000	0.0029	-0.0007	0.56449	0.55730	40.620
D90019	86	4.0330	-5.3118	38.6457	8.2707	0.0000	0.0000	0.0028	-0.0007	0.57153	0.55788	40.764
QUAD	87	7.8721	-7.4850	33.8449	7.7319	0.0000	0.0000	0.0026	-0.0007	0.58001	0.55920	41.064
D90024	88	60.2841	-20.8733	11.3991	4.4127	0.0000	0.0000	0.0013	-0.0007	0.59353	0.57419	42.912
IPMAS10	89	60.2841	-20.8733	11.3991	4.4127	0.0000	0.0000					

D3008	110	4.1454	-0.2646	42.0735	1.8212	-0.0019	-0.0005	-0.0052	0.0002	0.78285	0.88616	60.396
MBMAE01H	111	4.1454	-0.2646	42.0735	1.8212	-0.0019	-0.0005	-0.0052	0.0002	0.78285	0.88616	60.396
D3009	112	4.2591	-0.3152	41.3632	1.8010	-0.0020	-0.0005	-0.0051	0.0002	0.79028	0.88691	60.592
MBMAE01V	113	4.2591	-0.3152	41.3632	1.8010	-0.0020	-0.0005	-0.0051	0.0002	0.79028	0.88691	60.592
D3006	114	4.6437	-0.4457	39.5687	1.7492	-0.0022	-0.0005	-0.0050	0.0002	0.80841	0.88890	61.098
D3027	115	4.8627	-0.5051	38.7685	1.7256	-0.0023	-0.0005	-0.0050	0.0002	0.81613	0.88984	61.328
DBY	116	6.1315	-0.7633	35.4190	1.6229	-0.0028	-0.0005	-0.0048	0.0002	0.84545	0.89413	62.328
D3028	117	20.2357	-2.0550	21.7448	1.1095	-0.0051	-0.0005	-0.0037	0.0002	0.91961	0.92299	67.333
DBZ	118	29.4913	-2.5714	17.7162	0.9042	-0.0060	-0.0005	-0.0033	0.0002	0.93266	0.93924	69.333
D3028	119	61.6926	-3.8631	11.2353	0.3908	-0.0083	-0.0005	-0.0023	0.0002	0.95137	0.96695	74.338
DBY	120	69.6794	-4.1213	10.5562	0.2882	-0.0088	-0.0005	-0.0020	0.0002	0.95380	1.01159	75.338
D3029	121	77.2229	-4.3512	10.1244	0.1968	-0.0092	-0.0005	-0.0019	0.0002	0.95573	1.02531	76.228
IPMAE02	122	77.2229	-4.3512	10.1244	0.1968	-0.0092	-0.0005	-0.0019	0.0002	0.95573	1.02531	76.228
D3004	123	79.1909	-4.4091	10.0411	0.1738	-0.0093	-0.0005	-0.0018	0.0002	0.95619	1.02886	76.453
MQCAE02	124	79.3268	3.9607	10.2648	-0.9271	-0.0092	0.0009	-0.0018	0.0000	0.95679	1.03359	76.753
D3008	125	77.8046	3.9201	10.6296	-0.9620	-0.0090	0.0009	-0.0018	0.0000	0.95718	1.03653	76.946
MBMAE02H	126	77.8046	3.9201	10.6296	-0.9620	-0.0090	0.0009	-0.0018	0.0000	0.95718	1.03653	76.946
D3009	127	76.2753	3.8789	11.0139	-0.9976	-0.0088	0.0009	-0.0018	0.0000	0.95759	1.03942	77.142
MBMAE02V	128	76.2753	3.8789	11.0139	-0.9976	-0.0088	0.0009	-0.0018	0.0000	0.95759	1.03942	77.142
D3006	129	72.4078	3.7725	12.0687	-1.0891	-0.0083	0.0009	-0.0018	0.0000	0.95867	1.04640	77.648
ITVAE02	130	72.4078	3.7725	12.0687	-1.0891	-0.0083	0.0009	-0.0018	0.0000	0.95867	1.04640	77.648
D3030	131	70.3911	3.7159	12.6684	-1.1379	-0.0081	0.0009	-0.0017	0.0000	0.95927	1.04986	77.917
MYAAT01	132	63.1697	3.5055	15.1254	-1.3191	-0.0075	0.0003	-0.0017	0.0000	0.96166	1.06137	78.917
D980	133	61.7760	3.4634	15.6603	-1.3553	-0.0074	0.0003	-0.0017	0.0000	0.96217	1.06344	79.117
MYAAT01	134	55.0595	3.2530	18.5520	-1.5364	-0.0075	-0.0004	-0.0017	0.0000	0.96489	1.07278	80.117
D3031A	135	6.4064	0.5896	86.4974	-3.8299	-0.0126	-0.0004	-0.0014	0.0000	1.08264	1.12396	92.778
IPMAE03	136	6.4064	0.5896	86.4974	-3.8299	-0.0126	-0.0004	-0.0014	0.0000	1.08264	1.12396	92.778
D3004	137	6.1521	0.5423	88.2274	-3.8706	-0.0127	-0.0004	-0.0014	0.0000	1.08834	1.12437	93.003
MQCAE03	138	6.0254	-0.1158	87.9034	4.9408	-0.0133	-0.0035	-0.0014	0.0002	1.09622	1.12491	93.303
D3008	139	6.0764	-0.1483	86.0055	4.8849	-0.0140	-0.0035	-0.0013	0.0002	1.10130	1.12527	93.496
MBMAE03H	140	6.0764	-0.1483	86.0055	4.8849	-0.0140	-0.0035	-0.0013	0.0002	1.10130	1.12527	93.496
D3009	141	6.1410	-0.1813	84.1009	4.8283	-0.0147	-0.0035	-0.0013	0.0002	1.10641	1.12563	93.692
MBMAE03V	142	6.1410	-0.1813	84.1009	4.8283	-0.0147	-0.0035	-0.0013	0.0002	1.10641	1.12563	93.692
D3032	143	14.2193	-1.1796	36.9661	3.1123	-0.0356	-0.0035	-0.0004	0.0002	1.21596	1.14261	99.628
MYRAT02	144	19.5785	-1.5136	25.6795	2.5517	-0.0832	-0.0441	0.0000	0.0002	1.23508	1.15295	101.628
D3033A	145	39.1659	-2.3629	7.3605	1.0737	-0.3061	-0.0441	0.0008	0.0002	1.26429	1.21285	106.681
IPMAT00A	146	39.1659	-2.3629	7.3605	1.0737	-0.3061	-0.0441	0.0008	0.0002	1.26429	1.21285	106.681
D3034	147	40.4994	-2.4099	6.7833	0.9920	-0.3185	-0.0441	0.0008	0.0002	1.26540	1.21914	106.961
MBPAT03	148	50.8723	-2.7806	3.9706	0.4119	-0.3668	-0.0443	0.0012	0.0002	1.27242	1.28212	108.961
D3034A	149	56.1576	-2.9392	3.4609	0.1397	-0.3708	-0.0443	0.0013	0.0002	1.27517	1.32222	109.885
MBPAT03	150	68.6844	-3.3291	4.0713	-0.4444	-0.3395	0.0356	0.0016	0.0002	1.28029	1.41167	111.886
D3035A	151	132.9510	-4.7317	29.8536	-2.7894	-0.0560	0.0356	0.0029	0.0002	1.29359	1.54033	119.858
IPMAT00B	152	132.9510	-4.7317	29.8536	-2.7894	-0.0560	0.0356	0.0029	0.0002	1.29359	1.54033	119.858
D3036	153	135.6470	-4.7815	31.4582	-2.8728	-0.0459	0.0356	0.0029	0.0002	1.29392	1.54180	120.142
MBPAT04	154	155.6783	-5.1356	44.0255	-3.4317	-0.0114	-0.0010	0.0032	0.0002	1.29611	1.55036	122.142
D3037A	155	160.8488	-5.2234	47.5236	-3.5766	-0.0119	-0.0010	0.0033	0.0002	1.29662	1.55209	122.641
IPMAT01	156	160.8488	-5.2234	47.5236	-3.5766	-0.0119	-0.0010	0.0033	0.0002	1.29662	1.55209	122.641
D111	157	163.2045	-5.2629	49.1451	-3.6418	-0.0121	-0.0010	0.0034	0.0002	1.29684	1.55283	122.866
MQAAT01	158	155.8505	29.2422	54.7210	-15.3458	-0.0120	0.0016	0.0035	0.0009	1.29713	1.55376	123.166
D108	159	144.7592	28.1812	60.8103	-16.1805	-0.0117	0.0016	0.0037	0.0009	1.29734	1.55430	123.359
MBCAT01H	160	144.7592	28.1812	60.8103	-16.1805	-0.0117	0.0016	0.0037	0.0009	1.29734	1.55430	123.359
D109	161	133.9183	27.1041	67.3221	-17.0280	-0.0114	0.0016	0.0039	0.0009	1.29756	1.55479	123.555
MBCAT01V	162	133.9183	27.1041	67.3221	-17.0280	-0.0114	0.0016	0.0039	0.0009	1.29756	1.55479	123.555
D116	163	107.7981	24.3136	85.7379	-19.2235	-0.0106	0.0016	0.0043	0.0009	1.29824	1.55585	124.063
IPMAT02	164	107.7981	24.3136	85.7379	-19.2235	-0.0106	0.0016	0.0043	0.0009	1.29824	1.55585	124.063
D111	165	97.1513	23.0795	94.5931	-20.1943	-0.0102	0.0016	0.0045	0.0009	1.29858	1.55625	124.288
MQAAT02	166	90.0181	1.2419	100.1667	2.0445	-0.0101	-0.0007	0.0046	-0.0002	1.29910	1.55673	124.588
D108	167	89.5394	1.2364	99.3789	2.0345	-0.0102	-0.0007	0.0046	-0.0002	1.29944	1.55704	124.781
MBCAT02H	168	89.5394	1.2364	99.3789	2.0345	-0.0102	-0.0007	0.0046	-0.0002	1.29944	1.55704	124.781
D109	169	89.0556	1.2309	98.5830	2.0243	-0.0103	-0.0007	0.0046	-0.0002	1.29979	1.55735	124.977
MBDAT02V	170	89.0556	1.2309	98.5830	2.0243	-0.0103	-0.0007	0.0046	-0.0002	1.29979	1.55735	124.977
D116A	171	87.3120	1.2107	95.7181	1.9874	-0.0108	-0.0007	0.0045	-0.0002	1.30108	1.55852	125.691
RRRFAT03	172	85.5564	1.1900	92.8391	1.9496	-0.0113	-0.0007	0.0043	-0.0002	1.30243	1.55976	126.422
D116	173	84.3546	1.1757	90.8716	1.9233	-0.0117	-0.0007	0.0043	-0.0002	1.30338	1.56064	126.930
RRRFAT04	174	82.6502	1.1550	88.0864	1.8855	-0.0122	-0.0007	0.0041	-0.0002	1.30477	1.56194	127.662
D116	175	81.4840	1.1407	86.1840	1.8592	-0.0126	-0.0007	0.0041	-0.0002	1.30576	1.56287	128.170
RRRFAT05	176	79.8308	1.1201	83.4925	1.8214	-0.0131	-0.0007	0.0039	-0.0002	1.30720	1.56424	128.901
D116	177	78.7001	1.1057	81.6553	1.7952	-0.0134	-0.0007	0.0039	-0.0002	1.30822	1.56522	129.409
RRRFAT06	178	77.0981	1.0851	79.0575	1.7573	-0.0139	-0.0007	0.0037	-0.0002	1.30972	1.56667	130.140
D116	179	76.0030	1.0707	77.2854	1.7311	-0.0143	-0.0007	0.0037	-0.0002	1.31077	1.56770	130.648
RRRFAT07	180	74.4521	1.0501	74.7813	1.6933	-0.0148	-0.0007	0.0035	-0.0002	1.31232	1.56923	131.379
D116	181	73.3926	1.0357	73.0743	1.6670	-0.0151	-0.0007	0.0035	-0.0002	1.31341	1.57033	131.887
RRRFAT08	182	71.8929	1.0151	70.6639	1.6292	-0.0156	-0.0007	0.0033	-0.0002	1.31502	1.57195	132.619
D116	183	70.8689	1.0007	69.0220	1.6029	-0.0160	-0.0007	0.0033	-0.0002	1.31615	1.57310	133.127
RRRFAT09	184	69.4205	0.9801	66.7054	1.5651	-0.0165	-0.0007	0.0031	-0.0002	1.31781	1.57482	133.858
D116	185	68.4320	0.9657	65.1286	1.5388	-0.0168	-0.0007	0.0031	-0.0002	1.31898	1.57605	134.366
RRRFAT10	186	67.0347	0.9451	62.9057	1.5010	-0.0174	-0.0007	0.0029	-0.0002	1.32070	1.57786	135.097
D116A	187	65.6993	0.9249	60.7883	1.4641	-0.0179	-0.0007	0.0028	-0.0002	1.32241	1.57970	135.811
IPMAT03	188	65.6993	0.9249	60.7883	1.4641	-0.0179	-0.0007	0.0028	-0.0002	1.32241	1.57970	135.811
D118	189	65.3276	0.9192	60.2001	1.4536	-0.0180	-0.0007	0.0028	-0.0002	1.32290	1.58023	136.013
MQCAT03	190	64.7006	1.1698	59.4041	1.2005	-0.0182	-0.0006	0.0027	-0.0001	1.32364	1.58103	136.313
D119	191	64.3636	1.1645	59.0583	1.1946	-0.0183	-0.0006	0.0027	-0.0001	1.32399	1.58142	136.457
QUAD	192	63.6682	1.1535	58.3452	1.1822	-0.0185	-0.0006	0.0027	-0.0001	1.32474	1.58223	136.757
D120												

MBMAT05H	214	53.8224	1.0233	48.7465	0.9667	-0.0212	-0.0006	0.0020	-0.0001	1.33696	1.59567	141.251
D121	215	53.2824	1.0132	48.2367	0.9561	-0.0214	-0.0006	0.0020	-0.0001	1.33775	1.59654	141.516
MBMAT05V	216	53.2824	1.0132	48.2367	0.9561	-0.0214	-0.0006	0.0020	-0.0001	1.33775	1.59654	141.516
D134	217	52.6779	1.0018	47.6665	0.9442	-0.0216	-0.0006	0.0019	-0.0001	1.33865	1.59754	141.816
IHAAT05	218	52.6779	1.0018	47.6665	0.9442	-0.0216	-0.0006	0.0019	-0.0001	1.33865	1.59754	141.816
D134	219	52.0802	0.9904	47.1036	0.9323	-0.0217	-0.0006	0.0019	-0.0001	1.33956	1.59854	142.116
IPMAT07	220	52.0802	0.9904	47.1036	0.9323	-0.0217	-0.0006	0.0019	-0.0001	1.33956	1.59854	142.116
D118	221	51.6825	0.9827	46.7293	0.9243	-0.0219	-0.0006	0.0019	-0.0001	1.34018	1.59923	142.318
MQCAT07	222	51.0988	0.9630	46.1760	0.9200	-0.0220	-0.0006	0.0018	-0.0001	1.34111	1.60025	142.618
D119	223	50.8214	0.9575	45.9111	0.9142	-0.0221	-0.0006	0.0018	-0.0001	1.34156	1.60075	142.762
QUAD	224	50.2503	0.9462	45.3662	0.9022	-0.0223	-0.0006	0.0017	-0.0001	1.34250	1.60180	143.062
D120	225	49.7037	0.9352	44.8453	0.8906	-0.0225	-0.0006	0.0017	-0.0001	1.34343	1.60283	143.353
MBMAT07H	226	49.7037	0.9352	44.8453	0.8906	-0.0225	-0.0006	0.0017	-0.0001	1.34343	1.60283	143.353
D121	227	49.2104	0.9252	44.3758	0.8800	-0.0227	-0.0006	0.0017	-0.0001	1.34428	1.60377	143.618
MBMAT07V	228	49.2104	0.9252	44.3758	0.8800	-0.0227	-0.0006	0.0017	-0.0001	1.34428	1.60377	143.618
D133	229	48.1137	0.9026	43.3343	0.8560	-0.0230	-0.0006	0.0016	-0.0001	1.34625	1.60595	144.218
IPMAT08	230	48.1137	0.9026	43.3343	0.8560	-0.0230	-0.0006	0.0016	-0.0001	1.34625	1.60595	144.218
D118	231	47.7513	0.8950	42.9908	0.8479	-0.0232	-0.0006	0.0015	-0.0001	1.34692	1.60669	144.420
MQCAT08	232	47.1886	0.9803	42.5118	0.7489	-0.0233	-0.0006	0.0015	-0.0001	1.34792	1.60781	144.720
D119	233	46.9063	0.9743	42.2963	0.7436	-0.0234	-0.0006	0.0015	-0.0001	1.34841	1.60835	144.864
QUAD	234	46.3255	0.9619	41.8534	0.7326	-0.0236	-0.0006	0.0014	-0.0001	1.34943	1.60949	145.164
D120	235	45.7700	0.9498	41.4308	0.7219	-0.0237	-0.0006	0.0014	-0.0001	1.35044	1.61060	145.455
MBMAT08H	236	45.7700	0.9498	41.4308	0.7219	-0.0237	-0.0006	0.0014	-0.0001	1.35044	1.61060	145.455
D121	237	45.2693	0.9388	41.0506	0.7122	-0.0239	-0.0006	0.0014	-0.0001	1.35137	1.61162	145.720
MBMAT08V	238	45.2693	0.9388	41.0506	0.7122	-0.0239	-0.0006	0.0014	-0.0001	1.35137	1.61162	145.720
D133	239	44.1577	0.9138	40.2092	0.6902	-0.0242	-0.0006	0.0013	-0.0001	1.35350	1.61397	146.320
IPMAT09	240	44.1577	0.9138	40.2092	0.6902	-0.0242	-0.0006	0.0013	-0.0001	1.35350	1.61397	146.320
D118	241	43.7910	0.9055	39.9324	0.6828	-0.0243	-0.0006	0.0012	-0.0001	1.35423	1.61477	146.521
MQCAT09	242	43.2659	0.8449	39.5128	0.7157	-0.0245	-0.0006	0.0012	-0.0001	1.35533	1.61597	146.821
D119	243	43.0227	0.8392	39.3069	0.7101	-0.0246	-0.0006	0.0012	-0.0001	1.35586	1.61656	146.966
QUAD	244	42.5228	0.8273	38.8843	0.6987	-0.0248	-0.0006	0.0011	-0.0001	1.35698	1.61778	147.266
D120	245	42.0454	0.8158	38.4815	0.6875	-0.0250	-0.0006	0.0011	-0.0001	1.35807	1.61897	147.566
MBMAT09H	246	42.0454	0.8158	38.4815	0.6875	-0.0250	-0.0006	0.0011	-0.0001	1.35807	1.61897	147.566
D121	247	41.6156	0.8053	38.1196	0.6774	-0.0251	-0.0006	0.0011	-0.0001	1.35908	1.62007	147.821
MBMAT09V	248	41.6156	0.8053	38.1196	0.6774	-0.0251	-0.0006	0.0011	-0.0001	1.35908	1.62007	147.821
D133	249	40.6635	0.7815	37.3205	0.6544	-0.0255	-0.0006	0.0010	-0.0001	1.36140	1.62261	148.421
IPMAT10	250	40.6635	0.7815	37.3205	0.6544	-0.0255	-0.0006	0.0010	-0.0001	1.36140	1.62261	148.421
D118	251	40.3500	0.7735	37.0582	0.6467	-0.0256	-0.0006	0.0009	-0.0001	1.36219	1.62347	148.623
MQCAT10	252	39.8333	0.9480	36.7253	0.4635	-0.0257	-0.0005	0.0009	-0.0001	1.36338	1.62476	148.923
D119	253	39.5605	0.9411	36.5921	0.4588	-0.0258	-0.0005	0.0009	-0.0001	1.36396	1.62539	149.067
QUAD	254	39.0001	0.9268	36.3198	0.4488	-0.0260	-0.0005	0.0008	-0.0001	1.36518	1.62670	149.367
D120	255	38.4655	0.9130	36.0618	0.4392	-0.0261	-0.0005	0.0008	-0.0001	1.36637	1.62798	149.658
MBMAT10H	256	38.4655	0.9130	36.0618	0.4392	-0.0261	-0.0005	0.0008	-0.0001	1.36637	1.62798	149.658
D121	257	37.9847	0.9004	35.8312	0.4305	-0.0262	-0.0005	0.0008	-0.0001	1.36748	1.62915	149.923
MBMAT10V	258	37.9847	0.9004	35.8312	0.4305	-0.0262	-0.0005	0.0008	-0.0001	1.36748	1.62915	149.923
D90053A	259	36.7568	0.8672	35.2491	0.4075	-0.0265	-0.0005	0.0007	-0.0001	1.37043	1.63226	150.618
AMAHAR01	260	36.7568	0.8672	35.2491	0.4075	-0.0265	-0.0005	0.0007	-0.0001	1.37043	1.63226	150.618
MAHAR01	261	33.3031	0.8549	33.7523	0.3414	-0.0274	-0.0004	0.0717	0.0712	1.37954	1.64149	152.618
D60005A	262	32.1772	0.8200	33.3083	0.3191	-0.0277	-0.0004	0.1196	0.0712	1.38281	1.64468	153.290
ITVAT10	263	32.1772	0.8200	33.3083	0.3191	-0.0277	-0.0004	0.1196	0.0712	1.38281	1.64468	153.290
D60005B	264	31.0547	0.7836	32.8778	0.2960	-0.0280	-0.0004	0.1695	0.0712	1.38633	1.64805	153.990
MYRAR03	265	27.1124	0.5822	30.9127	0.3015	-0.0293	-0.0005	0.2748	-0.0008	1.40283	1.66305	156.993
D60004	266	26.8982	0.5730	30.8021	0.2950	-0.0294	-0.0005	0.2747	-0.0008	1.40392	1.66400	157.178
ITVAR00	267	26.8982	0.5730	30.8021	0.2950	-0.0294	-0.0005	0.2747	-0.0008	1.40392	1.66400	157.178
D60003	268	26.7192	0.5652	30.7102	0.2894	-0.0295	-0.0005	0.2746	-0.0008	1.40486	1.66482	157.336
D60002	269	26.4222	0.5521	30.5588	0.2801	-0.0296	-0.0005	0.2743	-0.0008	1.40645	1.66620	157.601
MYRAR04	270	23.5531	0.3635	29.0450	0.2726	-0.0310	-0.0005	0.1641	-0.0728	1.42565	1.68225	160.604
D60001	271	23.3931	0.3527	28.9251	0.2643	-0.0311	-0.0005	0.1479	-0.0728	1.42717	1.68348	160.827
MAXAR05	272	22.6299	0.3270	28.5351	0.2274	-0.0315	-0.0005	0.0913	-0.0405	1.43410	1.68903	161.829
D60000	273	21.5169	0.2291	27.7726	0.1536	-0.0325	-0.0005	0.0102	-0.0405	1.44855	1.70035	163.831
MANAR06	274	21.0436	0.2112	27.5447	0.1168	-0.0329	-0.0004	-0.0108	-0.0014	1.45604	1.70611	164.831
D132	275	20.6003	0.1503	27.3137	0.0716	-0.0334	-0.0004	-0.0125	-0.0014	1.46542	1.71323	166.057
IHA2C00	276	20.6003	0.1503	27.3137	0.0716	-0.0334	-0.0004	-0.0125	-0.0014	1.46542	1.71323	166.057
D123	277	20.1977	0.0510	27.1744	-0.0020	-0.0343	-0.0004	-0.0152	-0.0014	1.48105	1.72492	168.057

MAXIMUM LATTICE FUNCTIONS :
 BETA X = 0.1632045277E+03 BETA Y = 0.1038911768E+03
 ETA X = 0.6344333335E-15 ETA Y = 0.2752041557E+00

OPERATION LIST ,

MATRIX

1 -1,

AFTER :D123 ELEMENT #: 277

 * TRANSFORMATION MATRIX *

FIRST ORDER MATRIX

--0.4450988E+00 0.4418921E+01 0.4569897E-15 -0.1283787E-13 0.0000000E+00 -0.3426623E-01
 --0.4100911E-01 -0.1839555E+01 -0.6081284E-16 -0.1991482E-14 0.0000000E+00 -0.4270408E-03
 --0.1793065E-14 -0.1971901E-14 0.5531007E+00 -0.3479671E+02 0.0000000E+00 -0.1518692E-01
 --0.2095825E-16 0.9199144E-15 0.3201250E-01 -0.2059835E+00 0.0000000E+00 -0.1363025E-02
 --0.1215152E-02 -0.6492169E-01 -0.2677189E-03 0.4430054E-01 0.1000000E+01 -0.8275572E-01
 -0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.1000000E+01

HORIZONTAL MOVEMENT ANALYSIS

COMPACTION FACTOR =-0.4923302E-03 GAMMA TR = -0.4506836E+02

MOVEMENT IS UNSTABLE

HALF-TRACE = -0.11423271548656E+01
 EIGENVALUE1 = -0.59013938902566E+00
 WITH EIGENVECTOR :
 X = -0.99946177265401E+00 XP = 0.32804953944611E-01
 EIGENVALUE2 = -0.16945149207055E+01
 WITH EIGENVECTOR :
 X = -0.96227573254665E+00 XP = 0.27207611903988E+00

VERTICAL MOVEMENT ANALYSIS

COS(MU) = 0.1735859643140E+00 NU = 0.77776330065564E+00
 ETA = 0.17613843692178E-01 ETAP = -0.66266421118219E-03
 ALPHA = -0.38539092349445E+00 BETA = 0.35332940011862E+02

1
OPERATION LIST ,

HARDWARE

11.0225 6146.14 -80.6 100 -91.5251 -180 0.0 0 1 0;

VALUES ARE FOR ENERGY : 0.110E+02 GEV

THE LENGTHS ARE MEASURED IN METERS ,THE ANGLES IN DEGREES

THE SKYZ COORDINATES,AZIMUTH,ELEVATION AND ROLL ANGLES ARE :

#	NAME	S	X	Y	Z	THETA	PHI	PSI
1	MAWAS01	6147.1402600000	-80.6000000000	100.0195816045	-92.5251043946	180.0000000000	2.2435900000	0.0000000000
2	D60000	6149.1417900000	-80.6000000000	100.0979375533	-94.5251000661	180.0000000000	2.2435900000	0.0000000000
3	MAXAS02	6150.1433600000	-80.6000000000	100.1532504457	-95.5250982118	180.0000000000	4.0883600000	0.0000000000
4	D60001	6150.3667400000	-80.6000000000	100.1691762796	-95.7479097740	180.0000000000	4.0883600000	0.0000000000
5	MYRAS03	6153.3692900000	-80.6000000000	100.2762545654	-98.7479124274	180.0000000000	-0.0000100000	0.0000000000
6	D60002	6153.6350550000	-80.6000000000	100.2762545190	-99.0136774724	180.0000000000	-0.0000100000	0.0000000000
7	MEMAS00H	6153.6350550100	-80.6000000000	100.2762545190	-99.0136774824	180.0000000000	-0.0000100000	0.0000000000
8	D60003	6153.7923150100	-80.6000000000	100.2762544916	-99.1709374824	180.0000000000	-0.0000100000	0.0000000000
9	IPMAS01	6153.7923150100	-80.6000000000	100.2762544916	-99.1709374824	180.0000000000	-0.0000100000	0.0000000000
10	D60004	6153.9777750100	-80.6000000000	100.2762544592	-99.3563974824	180.0000000000	-0.0000100000	0.0000000000
11	MYRAS04	6156.9803250100	-80.6000000000	100.1691751262	-102.3564001434	180.0000000000	-4.0883800000	0.0000000000
12	D60005C	6157.1525050100	-80.6000000000	100.1568995265	-102.5281419905	180.0000000000	-4.0883800000	0.0000000000
13	IPMAS01A	6157.1525050100	-80.6000000000	100.1568995265	-102.5281419905	180.0000000000	-4.0883800000	0.0000000000
14	D60005D	6157.3525050100	-80.6000000000	100.1426404956	-102.7276330430	180.0000000000	-4.0883800000	0.0000000000
15	MQAAS01	6157.6525050100	-80.6000000000	100.1212519492	-103.0268696218	180.0000000000	-4.0883800000	0.0000000000
16	D60005E	6158.3525050100	-80.6000000000	100.0713453409	-103.7250883056	180.0000000000	-4.0883800000	0.0000000000
17	MAHAS06	6160.3529250100	-80.6000000000	100.0000047673	-105.7238111656	180.0000000000	-0.0000100000	0.0000000000
18	D60006	6161.5581050100	-80.6000000000	100.0000045570	-106.9289911656	180.0000000000	-0.0000100000	0.0000000000
19	IPMAS02	6161.5581050100	-80.6000000000	100.0000045570	-106.9289911656	180.0000000000	-0.0000100000	0.0000000000
20	D90004	6161.7827550100	-80.6000000000	100.0000045178	-107.1536411656	180.0000000000	-0.0000100000	0.0000000000
21	MQAAS02	6162.0827550100	-80.6000000000	100.0000044654	-107.4536411656	180.0000000000	-0.0000100000	0.0000000000
22	D90009	6162.2759050100	-80.6000000000	100.0000044317	-107.6467911656	180.0000000000	-0.0000100000	0.0000000000
23	MBCAS02H	6162.2759050200	-80.6000000000	100.0000044317	-107.6467911756	180.0000000000	-0.0000100000	0.0000000000
24	D90010	6162.4719950200	-80.6000000000	100.0000043975	-107.8428811756	180.0000000000	-0.0000100000	0.0000000000
25	MBCAS02V	6162.4719950300	-80.6000000000	100.0000043975	-107.8428811856	180.0000000000	-0.0000100000	0.0000000000
26	D90011A	6164.0581050300	-80.6000000000	100.0000041206	-109.4289911856	180.0000000000	-0.0000100000	0.0000000000
27	IPMAS03	6164.0581050300	-80.6000000000	100.0000041206	-109.4289911856	180.0000000000	-0.0000100000	0.0000000000
28	D90004	6164.2827550300	-80.6000000000	100.0000040814	-109.6536411856	180.0000000000	-0.0000100000	0.0000000000
29	MQAAS03	6164.5827550300	-80.6000000000	100.0000040291	-109.9536411856	180.0000000000	-0.0000100000	0.0000000000
30	D90012A	6165.0719950300	-80.6000000000	100.0000039437	-110.4428811856	180.0000000000	-0.0000100000	0.0000000000
31	MBCAS03V	6165.0719950400	-80.6000000000	100.0000039437	-110.4428811956	180.0000000000	-0.0000100000	0.0000000000
32	MBCAS03H	6165.0719950500	-80.6000000000	100.0000039437	-110.4428812056	180.0000000000	-0.0000100000	0.0000000000
33	D90013	6165.3836550500	-80.6000000000	100.0000038893	-110.7545412056	180.0000000000	-0.0000100000	0.0000000000
34	D1P	6166.3837250500	-80.6000000000	100.0000037147	-111.7546112056	180.0000000000	-0.0000100000	0.0000000000
35	D90014	6169.0757550500	-80.6000000000	100.0000032449	-114.4466412056	180.0000000000	-0.0000100000	0.0000000000
36	D1P	6170.0758250500	-80.6000000000	100.0000030703	-115.4467112056	180.0000000000	-0.0000100000	0.0000000000
37	D90015	6171.3507850500	-80.6000000000	100.0000028478	-116.7216712056	180.0000000000	-0.0000100000	0.0000000000
38	ITVAS04	6171.3507850500	-80.6000000000	100.0000028478	-116.7216712056	180.0000000000	-0.0000100000	0.0000000000
39	D90016	6171.6706850500	-80.6000000000	100.0000027920	-117.0415712056	180.0000000000	-0.0000100000	0.0000000000
40	IPMAS04	6171.6706850500	-80.6000000000	100.0000027920	-117.0415712056	180.0000000000	-0.0000100000	0.0000000000
41	MQAAS04	6171.9706850500	-80.6000000000	100.0000027396	-117.3415712056	180.0000000000	-0.0000100000	0.0000000000
42	D90019	6172.1151850500	-80.6000000000	100.0000027144	-117.4860712056	180.0000000000	-0.0000100000	0.0000000000
43	MBCAS04V	6172.1151850600	-80.6000000000	100.0000027144	-117.4860712156	180.0000000000	-0.0000100000	0.0000000000
44	MBCAS04H	6172.1151850700	-80.6000000000	100.0000027144	-117.4860712256	180.0000000000	-0.0000100000	0.0000000000
45	QUAD	6172.4151850700	-80.6000000000	100.0000026621	-117.7860712256	180.0000000000	-0.0000100000	0.0000000000
46	D90017	6173.0523850700	-80.6000000000	100.0000025508	-118.4232712256	180.0000000000	-0.0000100000	0.0000000000
47	IPMAS05	6173.0523850700	-80.6000000000	100.0000025508	-118.4232712256	180.0000000000	-0.0000100000	0.0000000000
48	D90018	6173.2706850700	-80.6000000000	100.0000025127	-118.6415712256	180.0000000000	-0.0000100000	0.0000000000
49	MQAAS05	6173.5706850700	-80.6000000000	100.0000024604	-118.9415712256	180.0000000000	-0.0000100000	0.0000000000
50	D90020	6173.7635850700	-80.6000000000	100.0000024267	-119.1344712256	180.0000000000	-0.0000100000	0.0000000000
51	MBCAS05H	6173.7635850800	-80.6000000000	100.0000024267	-119.1344712356	180.0000000000	-0.0000100000	0.0000000000
52	D90010	6173.9596750800	-80.6000000000	100.0000023925	-119.3305612356	180.0000000000	-0.0000100000	0.0000000000
53	MBCAS05V	6173.9596750900	-80.6000000000	100.0000023925	-119.3305612456	180.0000000000	-0.0000100000	0.0000000000
54	D90019	6174.1041750900	-80.6000000000	100.0000023673	-119.4750612456	180.0000000000	-0.0000100000	0.0000000000
55	QUAD	6174.4041750900	-80.6000000000	100.0000023149	-119.7750612456	180.0000000000	-0.0000100000	0.0000000000
56	D90021	6174.8706850900	-80.6000000000	100.0000022335	-120.2415712456	180.0000000000	-0.0000100000	0.0000000000
57	IPMAS06	6174.8706850900	-80.6000000000	100.0000022335	-120.2415712456	180.0000000000	-0.0000100000	0.0000000000
58	MQAAS06	6175.1706850900	-80.6000000000	100.0000021811	-120.5415712456	180.0000000000	-0.0000100000	0.0000000000
59	D90019	6175.3151850900	-80.6000000000	100.0000021559	-120.6860712456	180.0000000000	-0.0000100000	0.0000000000
60	MBCAS06V	6175.3151851000	-80.6000000000	100.0000021559	-120.6860712556	180.0000000000	-0.0000100000	0.0000000000
61	MBCAS06H	6175.3151851100	-80.6000000000	100.0000021559	-120.6860712656	180.0000000000	-0.0000100000	0.0000000000
62	QUAD	6175.6151851100	-80.6000000000	100.0000021035	-120.9860712656	180.0000000000	-0.0000100000	0.0000000000
63	D90022	6179.4523851100	-80.6000000000	100.0000014338	-124.8232712656	180.0000000000	-0.0000100000	0.0000000000
64	IPMAS07	6179.4523851100	-80.6000000000	100.0000014338	-124.8232712656	180.0000000000	-0.0000100000	0.0000000000
65	D90018	6179.6706851100	-80.6000000000	100.0000013957	-125.0415712656	180.0000000000	-0.0000100000	0.0000000000
66	MQAAS07	6179.9706851100	-80.6000000000	100.0000013434	-125.3415712656	180.0000000000	-0.0000100000	0.0000000000
67	D90023	6180.3596751100	-80.6000000000	100.0000012755	-125.7305612656	180.0000000000	-0.0000100000	0.0000000000
68	MBCAS07V	6180.3596751200	-80.6000000000	100.0000012755	-125.7305612756	180.0000000000	-0.0000100000	0.0000000000
69	D90019	6180.5041751200	-80.6000000000	100.0000012503	-125.8750612756	180.0000000000	-0.0000100000	0.0000000000

70	QUAD	6180.8041751200	-80.6000000000	100.0000011979	-126.1750612756	180.0000000000	-0.0000100000	0.0000000000
71	D90024	6182.6523851200	-80.6000000000	100.0000008753	-128.0232712756	180.0000000000	-0.0000100000	0.0000000000
72	IPMA08	6182.6523851200	-80.6000000000	100.0000008753	-128.0232712756	180.0000000000	-0.0000100000	0.0000000000
73	D90018	6182.8706851200	-80.6000000000	100.0000008372	-128.2415712756	180.0000000000	-0.0000100000	0.0000000000
74	MQAAS08	6183.1706851200	-80.6000000000	100.0000007849	-128.5415712756	180.0000000000	-0.0000100000	0.0000000000
75	D90019	6183.3151851200	-80.6000000000	100.0000007596	-128.6860712756	180.0000000000	-0.0000100000	0.0000000000
76	MQAAS08A	6183.6151851200	-80.6000000000	100.0000007073	-128.9860712756	180.0000000000	-0.0000100000	0.0000000000
77	D90023	6184.0041751200	-80.6000000000	100.0000006394	-129.3750612856	180.0000000000	-0.0000100000	0.0000000000
78	MBCAS08H	6184.0041751300	-80.6000000000	100.0000006394	-129.3750612856	180.0000000000	-0.0000100000	0.0000000000
79	D90024	6185.8523851300	-80.6000000000	100.0000003168	-131.2232712856	180.0000000000	-0.0000100000	0.0000000000
80	IPMA09	6185.8523851300	-80.6000000000	100.0000003168	-131.2232712856	180.0000000000	-0.0000100000	0.0000000000
81	D90018	6186.0706851300	-80.6000000000	100.0000002787	-131.4415712856	180.0000000000	-0.0000100000	0.0000000000
82	MQAAS09	6186.3706851300	-80.6000000000	100.0000002264	-131.7415712856	180.0000000000	-0.0000100000	0.0000000000
83	D90023	6186.7596751300	-80.6000000000	100.0000001585	-132.1305612856	180.0000000000	-0.0000100000	0.0000000000
84	MBCAS09V	6186.7596751400	-80.6000000000	100.0000001585	-132.1305612956	180.0000000000	-0.0000100000	0.0000000000
85	MBCAS09H	6186.7596751500	-80.6000000000	100.0000001585	-132.1305613056	180.0000000000	-0.0000100000	0.0000000000
86	D90019	6186.9041751500	-80.6000000000	100.0000001332	-132.2750613056	180.0000000000	-0.0000100000	0.0000000000
87	QUAD	6187.2041751500	-80.6000000000	100.0000000809	-132.5750613056	180.0000000000	-0.0000100000	0.0000000000
88	D90024	6189.0523851500	-80.6000000000	99.9999997583	-134.4232713056	180.0000000000	-0.0000100000	0.0000000000
89	IPMA10	6189.0523851500	-80.6000000000	99.9999997583	-134.4232713056	180.0000000000	-0.0000100000	0.0000000000
90	D90018	6189.2706851500	-80.6000000000	99.9999997202	-134.6415713056	180.0000000000	-0.0000100000	0.0000000000
91	MQAAS10	6189.5706851500	-80.6000000000	99.9999996679	-134.9415713056	180.0000000000	-0.0000100000	0.0000000000
92	D90019	6189.7151851500	-80.6000000000	99.9999996426	-135.0860713056	180.0000000000	-0.0000100000	0.0000000000
93	MQAAS10A	6190.0151851500	-80.6000000000	99.9999995903	-135.3860713056	180.0000000000	-0.0000100000	0.0000000000
94	D90025	6190.2080851500	-80.6000000000	99.9999995566	-135.5789713056	180.0000000000	-0.0000100000	0.0000000000
95	MBCAS10H	6190.2080851600	-80.6000000000	99.9999995566	-135.5789713156	180.0000000000	-0.0000100000	0.0000000000
96	D90010	6190.4041751600	-80.6000000000	99.9999995224	-135.7750613156	180.0000000000	-0.0000100000	0.0000000000
97	MBCAS10V	6190.4041751700	-80.6000000000	99.9999995224	-135.7750613256	180.0000000000	-0.0000100000	0.0000000000
98	D3024	6190.9312951700	-80.6000000000	99.9999994304	-136.3021813256	180.0000000000	-0.0000100000	0.0000000000
99	RRFAT01	6191.6312951700	-80.6000124594	99.9999993082	-137.0021813254	-179.9979603700	-0.0000100000	0.0000000004
100	D3025	6192.7346951700	-80.60000517385	99.9999991156	-138.105813247	-179.9979603700	-0.0000100000	0.0000000004
101	RRFAT02	6193.4346951700	-80.6000891167	99.9999989935	-138.805813237	-179.9959207400	-0.0000100000	0.0000000007
102	D3025	6194.5380951700	-80.6001676749	99.9999988009	-139.9089813209	-179.9959207400	-0.0000100000	0.0000000007
103	RRFAT02	6195.2380951700	-80.6002299719	99.9999986787	-140.6089813181	-179.9938811100	-0.0000100000	0.0000000011
104	D3025	6196.3414951700	-80.6003478092	99.9999984861	-141.7123813118	-179.9938811100	-0.0000100000	0.0000000011
105	RRFAT02	6197.0414951700	-80.6004350250	99.9999983639	-142.4123813063	-179.9918414800	-0.0000100000	0.0000000014
106	D3026A	6205.8182751700	-80.6016847773	99.9999983231	-151.1891612174	-179.9918414800	-0.0000100000	0.0000000014
107	IPMAE01	6205.8182751700	-80.6016847773	99.9999983231	-151.1891612174	-179.9918414800	-0.0000100000	0.0000000014
108	D3004	6206.0429251700	-80.6017167659	99.999997929	-151.4138112151	-179.9918414800	-0.0000100000	0.0000000014
109	MQCAE01	6206.3429251700	-80.6017776281	99.999997405	-151.7138112087	-179.9849108800	-0.0000100000	0.0000000026
110	D3008	6206.5360751700	-80.6018284951	99.999997068	-151.9069612020	-179.9849108800	-0.0000100000	0.0000000026
111	MBMAE01H	6206.5360751800	-80.6018284951	99.999997068	-151.9069612120	-179.9849108800	-0.0000100000	0.0000000026
112	D3009	6206.7321651800	-80.6018801363	99.9999966726	-152.1030512052	-179.9849108800	-0.0000100000	0.0000000026
113	MBMAE01V	6206.7321651900	-80.6018801363	99.9999966726	-152.1030512152	-179.9849108800	-0.0000100000	0.0000000026
114	D3006	6207.2376251900	-80.6020132516	99.9999965844	-152.6085111977	-179.9849108800	-0.0000100000	0.0000000026
115	D3027	6207.4679251900	-80.6020739023	99.9999965442	-152.8388111897	-179.9849108800	-0.0000100000	0.0000000026
116	DBY	6208.4682151900	-80.6023373335	99.9999963696	-153.8391011550	-179.9849108800	-0.0000100000	0.0000000026
117	D3028	6213.4726351900	-80.6036552716	99.9999954962	-158.8435209815	-179.9849108800	-0.0000100000	0.0000000026
118	DBZ	6215.4732251900	-80.6041821366	99.9999951470	-160.8441109121	-179.9849108800	-0.0000100000	0.0000000026
119	D3028	6220.4776451900	-80.6055000748	99.9999942736	-165.8485307386	-179.9849108800	-0.0000100000	0.0000000026
120	DBY	6221.4779351900	-80.6057635060	99.9999940990	-166.8488207039	-179.9849108800	-0.0000100000	0.0000000026
121	D3029	6222.3682811900	-80.6059979829	99.9999939436	-167.7391666730	-179.9849108800	-0.0000100000	0.0000000026
122	IPMAE02	6222.3682811900	-80.6059979829	99.9999939436	-167.7391666730	-179.9849108800	-0.0000100000	0.0000000026
123	D3004	6222.5929311900	-80.6060571455	99.9999939044	-167.9638166652	-179.9849108800	-0.0000100000	0.0000000026
124	MQCAE02	6222.8929311900	-80.6060712064	99.9999938520	-168.2638166625	-179.9902817200	-0.0000100000	-0.0000000017
125	D3008	6223.0860811900	-80.6060384450	99.9999938183	-168.4569666598	-179.9902817200	-0.0000100000	-0.0000000017
126	MBMAE02H	6223.0860812000	-80.6060384450	99.9999938183	-168.4569666698	-179.9902817200	-0.0000100000	-0.0000000017
127	D3009	6223.2821712000	-80.6060051850	99.9999937841	-168.6530566669	-179.9902817200	-0.0000100000	-0.0000000017
128	MBMAE02V	6223.2821712100	-80.6060051850	99.9999937841	-168.6530566669	-179.9902817200	-0.0000100000	-0.0000000017
129	D3006	6223.7876312100	-80.6059194509	99.9999936959	-169.1585166697	-179.9902817200	-0.0000100000	-0.0000000017
130	ITVAE02	6223.7876312100	-80.6059194509	99.9999936959	-169.1585166697	-179.9902817200	-0.0000100000	-0.0000000017
131	D3030	6224.0569412100	-80.6058737717	99.9999936489	-169.4278266658	-179.9902817200	-0.0000100000	-0.0000000017
132	MYAAT01	6225.0569412100	-80.6060431867	99.9999934743	-170.4278266323	-179.9708681800	-0.0000100000	0.0000000051
133	D980	6225.2569412100	-80.6061448760	99.9999934394	-170.6278266064	-179.9708681800	-0.0000100000	0.0000000051
134	MYAAT01	6226.2569412100	-80.6069923531	99.9999932649	-171.6278262282	-179.9320180800	-0.0000100000	0.0000000119
135	D3031A	6238.9183412100	-80.6220152062	99.9999910551	-184.2892173158	-179.9320180800	-0.0000100000	0.0000000119
136	IPMAE03	6238.9183412100	-80.6220152062	99.9999910551	-184.2892173158	-179.9320180800	-0.0000100000	0.0000000119
137	D3004	6239.1429912100	-80.6222817553	99.9999910159	-184.5138671577	-179.9320180800	-0.0000100000	0.0000000119
138	MQCAE03	6239.4429912100	-80.6229115965	99.9999909635	-184.8138664548	-179.8274000800	-0.0000100000	0.0000000301
139	D3008	6239.6361412100	-80.6234934478	99.9999909298	-185.0070155784	-179.8274000800	-0.0000100000	0.0000000301
140	MBMAE03H	6239.6361412200	-80.6234934478	99.9999909298	-185.0070155884	-179.8274000800	-0.0000100000	0.0000000301
141	D3009	6239.8322312200	-80.6240841557	99.9999908956	-185.2031046987	-179.8274000800	-0.0000100000	0.0000000301
142	MBMAE03V	6239.8322312300	-80.6240841557	99.9999908956	-185.2031047087	-179.8274000800	-0.0000100000	0.0000000301
143	D3032	6245.7682012300	-80.6419658637	99.9999898595	-191.1390477749	-179.8274000800	-0.0000100000	0.0000000352
144	MYRAT02	6247.7684412300	-80.6885718324	99.9999895106	-193.1386074386	-177.5021700800	-0.0000099905	0.00000004358
145	D3033A	6252.8213212300	-80.9087841664	99.9999886295	-198.1866865606	-177.5021700800	-0.0000099905	0.00000004358
146	IPMAT00A	6252.8213212300	-80.9087841664	99.9999886295	-198.1866865606	-177.5021700800	-0.0000099905	0.00000004358
147	D3034	6253.1007212300	-80.9209608510	99.9999885808	-198.4658210951	-177.5021700800	-0.0000099905	0.00000004358
148	MBPAT03	6255.1011812300	-80.9680796849	99.9999882318	-200.4655921992	-179.7983100800	-0.0000099999	0.0000000352
149	D3034A	6256.0252212300	-80.9713324406	99.9999880705	-201.3896264741	-179.7983100800	-0.0000099999	0.0000000352
150	MBPAT03	6258.0256812300	-80.9382936592	99.999877214	-203.3896797465	-177.9055499200	-0.0000099933	-0.0000003655
151	D3035A	6265.9984112300	-80.6469150197	99.9998663308	-211.3570834730	-177.90554		

174	RRRFAT04	6273.8015972700	-80.6000024337	99.9999849690	-219.1596347390	179.9999999200	-0.0000100000	0.0000000000
175	D116	6274.3095972700	-80.6000024330	99.9999848804	-219.6676347390	179.9999999200	-0.0000100000	0.0000000000
176	RRRFAT05	6275.0408572700	-80.6000024320	99.9999847527	-220.3988947390	179.9999999200	-0.0000100000	0.0000000000
177	D116	6275.5488572700	-80.6000024313	99.9999846641	-220.9068947390	179.9999999200	-0.0000100000	0.0000000000
178	RRRFAT06	6276.2801172700	-80.6000024303	99.9999845364	-221.6381547390	179.9999999200	-0.0000100000	0.0000000000
179	D116	6276.7881172700	-80.6000024296	99.9999844478	-222.1461547390	179.9999999200	-0.0000100000	0.0000000000
180	RRRFAT07	6277.5193772700	-80.6000024285	99.9999843202	-222.8774147390	179.9999999200	-0.0000100000	0.0000000000
181	D116	6278.0273772700	-80.6000024278	99.9999842315	-223.3854147390	179.9999999200	-0.0000100000	0.0000000000
182	RRRFAT08	6278.7586372700	-80.6000024268	99.9999841039	-224.1166747390	179.9999999200	-0.0000100000	0.0000000000
183	D116	6279.2666372700	-80.6000024261	99.9999840152	-224.6246747390	179.9999999200	-0.0000100000	0.0000000000
184	RRRFAT09	6279.9978972700	-80.6000024251	99.9999838876	-225.3559347390	179.9999999200	-0.0000100000	0.0000000000
185	D116	6280.5058972700	-80.6000024244	99.9999837989	-225.8639347390	179.9999999200	-0.0000100000	0.0000000000
186	RRRFAT10	6281.2371572700	-80.6000024234	99.9999836713	-226.5951947390	179.9999999200	-0.0000100000	0.0000000000
187	D116A	6281.9512872700	-80.6000024224	99.9999835466	-227.3093247390	179.9999999200	-0.0000100000	0.0000000000
188	IPMAT03	6281.9512872700	-80.6000024224	99.9999835466	-227.3093247390	179.9999999200	-0.0000100000	0.0000000000
189	D118	6282.1528872700	-80.6000024221	99.9999835115	-227.5109247390	179.9999999200	-0.0000100000	0.0000000000
190	MQCAT03	6282.4528872700	-80.6000024217	99.9999834591	-227.8109247390	179.9999999200	-0.0000100000	0.0000000000
191	D119	6282.5972872700	-80.6000024215	99.9999834339	-227.9553247390	179.9999999200	-0.0000100000	0.0000000000
192	QUAD	6282.8972872700	-80.6000024210	99.9999833815	-228.2553247390	179.9999999200	-0.0000100000	0.0000000000
193	D120	6283.1878372700	-80.6000024206	99.9999833308	-228.5458747390	179.9999999200	-0.0000100000	0.0000000000
194	MBMAT03H	6283.1878372800	-80.6000024206	99.9999833308	-228.5458747490	179.9999999200	-0.0000100000	0.0000000000
195	D121	6283.4529872800	-80.6000024203	99.9999832845	-228.8110247490	179.9999999200	-0.0000100000	0.0000000000
196	MBMAT03V	6283.4529872900	-80.6000024203	99.9999832845	-228.8110247590	179.9999999200	-0.0000100000	0.0000000000
197	D133	6284.0529872900	-80.6000024194	99.9999831798	-229.4110247590	179.9999999200	-0.0000100000	0.0000000000
198	IPMAT04	6284.0529872900	-80.6000024194	99.9999831798	-229.4110247590	179.9999999200	-0.0000100000	0.0000000000
199	D118	6284.2545872900	-80.6000024191	99.9999831446	-229.6126247590	179.9999999200	-0.0000100000	0.0000000000
200	MQCAT04	6284.5545872900	-80.6000024187	99.9999830923	-229.9126247590	179.9999999200	-0.0000100000	0.0000000000
201	D119	6284.6989872900	-80.6000024185	99.9999830671	-230.0570247590	179.9999999200	-0.0000100000	0.0000000000
202	QUAD	6284.9989872900	-80.6000024181	99.9999830147	-230.3570247590	179.9999999200	-0.0000100000	0.0000000000
203	D120	6285.2895372900	-80.6000024177	99.9999829640	-230.6475747590	179.9999999200	-0.0000100000	0.0000000000
204	MBMAT04H	6285.2895373000	-80.6000024177	99.9999829640	-230.6475747690	179.9999999200	-0.0000100000	0.0000000000
205	D121	6285.5546873000	-80.6000024173	99.9999829177	-230.9127247690	179.9999999200	-0.0000100000	0.0000000000
206	MBMAT04V	6285.5546873100	-80.6000024173	99.9999829177	-230.9127247790	179.9999999200	-0.0000100000	0.0000000000
207	D133	6286.1546873100	-80.6000024165	99.9999828130	-231.5127247790	179.9999999200	-0.0000100000	0.0000000000
208	IPMAT05	6286.1546873100	-80.6000024165	99.9999828130	-231.5127247790	179.9999999200	-0.0000100000	0.0000000000
209	D118	6286.3562873100	-80.6000024162	99.9999827778	-231.7143247790	179.9999999200	-0.0000100000	0.0000000000
210	MQCAT05	6286.6562873100	-80.6000024158	99.9999827255	-232.0143247790	179.9999999200	-0.0000100000	0.0000000000
211	D119	6286.8068731000	-80.6000024156	99.9999827003	-232.1587247790	179.9999999200	-0.0000100000	0.0000000000
212	QUAD	6287.1068731000	-80.6000024152	99.9999826479	-232.4587247790	179.9999999200	-0.0000100000	0.0000000000
213	D120	6287.3912373100	-80.6000024148	99.9999825972	-232.7492747790	179.9999999200	-0.0000100000	0.0000000000
214	MBMAT05H	6287.3912373200	-80.6000024148	99.9999825972	-232.7492747890	179.9999999200	-0.0000100000	0.0000000000
215	D121	6287.6563873200	-80.6000024144	99.9999825509	-233.0144247890	179.9999999200	-0.0000100000	0.0000000000
216	MBMAT05V	6287.6563873300	-80.6000024144	99.9999825509	-233.0144247990	179.9999999200	-0.0000100000	0.0000000000
217	D134	6287.9563873300	-80.6000024140	99.9999824985	-233.3144247990	179.9999999200	-0.0000100000	0.0000000000
218	IHAAT05	6287.9563873300	-80.6000024140	99.9999824985	-233.3144247990	179.9999999200	-0.0000100000	0.0000000000
219	D134	6288.2563873300	-80.6000024136	99.9999824462	-233.6144247990	179.9999999200	-0.0000100000	0.0000000000
220	IPMAT07	6288.2563873300	-80.6000024136	99.9999824462	-233.6144247990	179.9999999200	-0.0000100000	0.0000000000
221	D118	6288.4579873300	-80.6000024133	99.9999824110	-233.8160247990	179.9999999200	-0.0000100000	0.0000000000
222	MQCAT07	6288.7579873300	-80.6000024129	99.9999823586	-234.1160247990	179.9999999200	-0.0000100000	0.0000000000
223	D119	6288.9023873300	-80.6000024127	99.9999823334	-234.2604247990	179.9999999200	-0.0000100000	0.0000000000
224	QUAD	6289.2023873300	-80.6000024122	99.9999822811	-234.5604247990	179.9999999200	-0.0000100000	0.0000000000
225	D120	6289.4929373300	-80.6000024118	99.9999822304	-234.8509747990	179.9999999200	-0.0000100000	0.0000000000
226	MBMAT07H	6289.4929373400	-80.6000024118	99.9999822304	-234.8509748090	179.9999999200	-0.0000100000	0.0000000000
227	D121	6289.7808734000	-80.6000024115	99.9999821841	-235.1161248090	179.9999999200	-0.0000100000	0.0000000000
228	MBMAT07V	6289.7808735000	-80.6000024115	99.9999821841	-235.1161248190	179.9999999200	-0.0000100000	0.0000000000
229	D133	6290.3580873500	-80.6000024106	99.9999820794	-235.7161248190	179.9999999200	-0.0000100000	0.0000000000
230	IPMAT08	6290.3580873500	-80.6000024106	99.9999820794	-235.7161248190	179.9999999200	-0.0000100000	0.0000000000
231	D118	6290.5596873500	-80.6000024103	99.9999820442	-235.9177248190	179.9999999200	-0.0000100000	0.0000000000
232	MQCAT08	6290.8596873500	-80.6000024099	99.9999819918	-236.2177248190	179.9999999200	-0.0000100000	0.0000000000
233	D119	6291.0040873500	-80.6000024097	99.9999819666	-236.3621248190	179.9999999200	-0.0000100000	0.0000000000
234	QUAD	6291.3040873500	-80.6000024093	99.9999819143	-236.6621248190	179.9999999200	-0.0000100000	0.0000000000
235	D120	6291.5946373500	-80.6000024089	99.9999818636	-236.9526748190	179.9999999200	-0.0000100000	0.0000000000
236	MBMAT08H	6291.5946373600	-80.6000024089	99.9999818636	-236.9526748290	179.9999999200	-0.0000100000	0.0000000000
237	D121	6291.8597873600	-80.6000024085	99.9999818173	-237.2178248290	179.9999999200	-0.0000100000	0.0000000000
238	MBMAT08V	6291.8597873700	-80.6000024085	99.9999818173	-237.2178248390	179.9999999200	-0.0000100000	0.0000000000
239	D133	6292.4597873700	-80.6000024077	99.9999817126	-237.8178248390	179.9999999200	-0.0000100000	0.0000000000
240	IPMAT09	6292.4597873700	-80.6000024077	99.9999817126	-237.8178248390	179.9999999200	-0.0000100000	0.0000000000
241	D118	6292.6613873700	-80.6000024074	99.9999816774	-238.0194248390	179.9999999200	-0.0000100000	0.0000000000
242	MQCAT09	6292.9613873700	-80.6000024070	99.9999816250	-238.3194248390	179.9999999200	-0.0000100000	0.0000000000
243	D119	6293.1057873700	-80.6000024068	99.9999815998	-238.4638248390	179.9999999200	-0.0000100000	0.0000000000
244	QUAD	6293.4057873700	-80.6000024064	99.9999815474	-238.7638248390	179.9999999200	-0.0000100000	0.0000000000
245	D120	6293.6963373700	-80.6000024060	99.9999814967	-239.0543748390	179.9999999200	-0.0000100000	0.0000000000
246	MBMAT09H	6293.6963373800	-80.6000024060	99.9999814967	-239.0543748490	179.9999999200	-0.0000100000	0.0000000000
247	D121	6293.9614873800	-80.6000024056	99.9999814505	-239.3195248490	179.9999999200	-0.0000100000	0.0000000000
248	MBMAT09V	6293.9614873900	-80.6000024056	99.9999814505	-239.3195248590	179.9999999200	-0.0000100000	0.0000000000
249	D133	6294.5614873900	-80.6000024048	99.9999813457	-239.9195248590	179.9999999200	-0.0000100000	0.0000000000
250	IPMAT10	6294.5614873900	-80.6000024048	99.9999813457	-239.9195248590	179.9999999200	-0.0000100000	0.0000000000
251	D118	6294.7630873900	-80.6000024045	99.9999813106	-240.1211248590	179.9999999200	-0.0000100000	0.0000000000
252	MQCAT10	6295.0630873900	-80.6000024041	99.9999812582	-240.4211248590	179.9999999200	-0.0000100000	0.0000000000
253	D119	6295.2074873900	-80.6000024038	99.9999812330	-240.5655248590	179.9999999200	-0.0000100000	0.0000000000
254	QUAD	6295.5074873900	-80.6000024034	99.9999811806	-240.8655248590	179.9999999200	-0.0000100000	0.0000000000
255	D120	6295.7980373900	-80.6000024030	99.9999811299	-241.1560748590	179.9999999200	-0.0000100000	0.0000000000
256	MBMAT10H							

1

STOP

halla_5.outd

LDIMAT VERSION 2.9 PROD
ODATE AND TIME OF THIS RUN: 12-JUN-2007 13:00:04

XSIF Parser Version 2.1
Version Date: 01-JAN-2004
Run: 12-JUN-2007 13:00:04
XSIF Parser developed by NLC Department,
Stanford Linear Accelerator Center.

UTRANSPORT

TITLE

CONVERTED FROM ../../OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//HALLA_5.OPT

```
5
D4000: DRIFT, L=0.44539
ITV2C00: MONITOR, L=0
D4001: DRIFT, L=0.3545
MLALC02: SBEND, L=2.3, ANGLE=1.60001, K1=-62.6705, &
10  E1=0, E2=1.6, HGAP=0, &
    HGAPX=0, &
    FINT=0.5, TILT=0
D4002: DRIFT, L=1.263
MBD1C00V: GKICK, L=1E-08, DXP=0, DYP=0
15  D4003: DRIFT, L=2.42
    MBD1C00AV: GKICK, L=1E-08, DXP=0, DYP=0
    D4004: DRIFT, L=7.44235
    IPM1C01: MONITOR, L=0
    D4005: DRIFT, L=0.22465
20  MQALC01: QUADRUPOLE, L=0.3, K1=0.658627, TILT=0
    D4006: DRIFT, L=0.3707
    MBC1C01H: GKICK, L=1E-08, DXP=0, DYP=0
    D4007: DRIFT, L=1.40465
    IPM1C02: MONITOR, L=0
25  MQALC02: QUADRUPOLE, L=0.3, K1=-1.07346, TILT=0
    D4008: DRIFT, L=0.1459
    MBC1C02V: GKICK, L=1E-08, DXP=0, DYP=0
    AMAZ1C02V: GKICK, L=1E-08, DXP=0, DYP=0
    D4009: DRIFT, L=1.62945
30  IPM1C03: MONITOR, L=0
    MQALC03: QUADRUPOLE, L=0.3, K1=0.673408, TILT=0
    D4010: DRIFT, L=0.565
    MBC1C03H: GKICK, L=1E-08, DXP=0, DYP=0
    D4011: DRIFT, L=11.4349
35  MBNL04: SBEND, L=1, ANGLE=1.6, K1=47.3885, &
    E1=1.6, E2=0, HGAP=0, &
    HGAPX=0, &
    FINT=0.5, TILT=0
    D4012: DRIFT, L=0.77535
    IPM1C04: MONITOR, L=0
40  MQALC04: QUADRUPOLE, L=0.3, K1=0.805972, TILT=0
    MBC1C04H: GKICK, L=1E-08, DXP=0, DYP=0
    AMAZ1C04H: GKICK, L=1E-08, DXP=0, DYP=0
    D4013: DRIFT, L=1
45  IPM1C05: MONITOR, L=0
    MQALC05: QUADRUPOLE, L=0.3, K1=-0.455293, TILT=0
    MBC1C05V: GKICK, L=1E-08, DXP=0, DYP=0
    D4014: DRIFT, L=6.21035
    IPM1C06: MONITOR, L=0
50  MQALC06: QUADRUPOLE, L=0.3, K1=0.054601, TILT=0
    MBC1C06V: GKICK, L=1E-08, DXP=0, DYP=0
    D4015: DRIFT, L=4.21035
    IPM1C07: MONITOR, L=0
55  MQALC07: QUADRUPOLE, L=0.3, K1=-0.360559, TILT=0
    D4016: DRIFT, L=0.0959
    MBC1C07H: GKICK, L=1E-08, DXP=0, DYP=0
    D4017: DRIFT, L=0.05
    MBC1C07V: GKICK, L=1E-08, DXP=0, DYP=0
60  D4018: DRIFT, L=0.8
    AMAZ1C07H: GKICK, L=1E-08, DXP=0, DYP=0
    D4019: DRIFT, L=0.2
    IHALC07A: MONITOR, L=0
    AMAZ1C07V: GKICK, L=1E-08, DXP=0, DYP=0
65  D4020: DRIFT, L=3.22945
    IHALC07B: MONITOR, L=0
    IPM1C08: MONITOR, L=0
    MQALC08: QUADRUPOLE, L=0.3, K1=0.502212, TILT=0
    D4021: DRIFT, L=0.19315
    MBC1C08H: GKICK, L=1E-08, DXP=0, DYP=0
70  D4022: DRIFT, L=0.15185
    MSALC08: SEXTUPOLE, L=0.15, K2=0
    D4023: DRIFT, L=0.605
    MBALC05: SBEND, L=3, ANGLE=4.28749, K1=0.742434, &
    E1=2.14375, E2=2.14375, HGAP=0, &
75  HGAPX=0, &
    FINT=0.5, TILT=0
    MQALC09: QUADRUPOLE, L=0.3, K1=0, TILT=0
    MBC1C09V: GKICK, L=1E-08, DXP=0, DYP=0
    MSALC09: SEXTUPOLE, L=0.15, K2=0
80  MBALC06: SBEND, L=3, ANGLE=4.28749, K1=0.742434, &
    E1=2.14375, E2=2.14375, HGAP=0, &
    HGAPX=0, &
    FINT=0.5, TILT=0
    D4024: DRIFT, L=0.57535
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85 IPM1C10: MONITOR, L=0
MQALC10: QUADRUPOLE, L=0.3, K1=0, TILT=0
MBC1C10H: GKICK, L=1E-08, DXP=0, DYP=0
MSALC10: SEXTUPOLE, L=0.15, K2=0
MBALC07: SBEND, L=3, ANGLE=4.28749, K1=0.742434, &
90 E1=2.14375, E2=2.14375, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
IPM1C11: MONITOR, L=0
MQALC11: QUADRUPOLE, L=0.3, K1=-0.407648, TILT=0
95 MBC1C11V: GKICK, L=1E-08, DXP=0, DYP=0
MSALC11: SEXTUPOLE, L=0.15, K2=0
MBALC08: SBEND, L=3, ANGLE=4.28749, K1=0.742434, &
E1=2.14375, E2=2.14375, HGAP=0, &
HGAPX=0, &
100 FINT=0.5, TILT=0
D4025: DRIFT, L=0.266
IHALC12: MONITOR, L=0
D4026: DRIFT, L=0.30935
IPM1C12: MONITOR, L=0
105 MQALC12: QUADRUPOLE, L=0.3, K1=0.817578, TILT=0
MBC1C12H: GKICK, L=1E-08, DXP=0, DYP=0
D4027: DRIFT, L=0.3
OTR1C12: MONITOR, L=0
D4028: DRIFT, L=0.60685
110 MBALC09: SBEND, L=3, ANGLE=4.28749, K1=0.742434, &
E1=2.14375, E2=2.14375, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
MQALC13: QUADRUPOLE, L=0.3, K1=-0.35652, TILT=0
115 MBC1C13V: GKICK, L=1E-08, DXP=0, DYP=0
MSALC13: SEXTUPOLE, L=0.15, K2=0
MBALC10: SBEND, L=3, ANGLE=4.28749, K1=0.742434, &
E1=2.14375, E2=2.14375, HGAP=0, &
HGAPX=0, &
120 FINT=0.5, TILT=0
IPM1C14: MONITOR, L=0
MQALC14: QUADRUPOLE, L=0.3, K1=0, TILT=0
MSALC14: SEXTUPOLE, L=0.15, K2=0
MBALC11: SBEND, L=3, ANGLE=4.28749, K1=0.742434, &
125 E1=2.14375, E2=2.14375, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
MQALC15: QUADRUPOLE, L=0.3, K1=0, TILT=0
130 MBC1C15V: GKICK, L=1E-08, DXP=0, DYP=0
MSALC15: SEXTUPOLE, L=0.15, K2=0
MBALC12: SBEND, L=3, ANGLE=4.28749, K1=0.742434, &
E1=2.14375, E2=2.14375, HGAP=0, &
HGAPX=0, &
135 FINT=0.5, TILT=0
IPM1C16: MONITOR, L=0
MQALC16: QUADRUPOLE, L=0.3, K1=0.118051, TILT=0
MBC1C16H: GKICK, L=1E-08, DXP=0, DYP=0
140 D4029: DRIFT, L=1.69585
ITV1C17: MONITOR, L=0
D4030: DRIFT, L=0.161
MQALC17: QUADRUPOLE, L=0.3, K1=0.0340532, TILT=0
IPM1C18: MONITOR, L=0
MQALC18: QUADRUPOLE, L=0.3, K1=0.175092, TILT=0
145 D4031: DRIFT, L=0.193
MBC1C18H: GKICK, L=1E-08, DXP=0, DYP=0
D4032: DRIFT, L=0.196
MBC1C18V: GKICK, L=1E-08, DXP=0, DYP=0
IHALC18A: MONITOR, L=0
D4033: DRIFT, L=2.611
150 IHALC18B: MONITOR, L=0
MQALC19: QUADRUPOLE, L=0.3, K1=-1.65976, TILT=0
IPM1C20: MONITOR, L=0
MQALC20: QUADRUPOLE, L=0.3, K1=1.55688, TILT=0
MBC1C20H: GKICK, L=1E-08, DXP=0, DYP=0
155 MBC1C20V: GKICK, L=1E-08, DXP=0, DYP=0
D4034: DRIFT, L=0.5374
MMCLP01: SBEND, L=1.00013, ANGLE=-3.22237, K1=-0, &
E1=-1.61119, E2=0, HGAP=0.0199605, &
HGAPX=0, &
160 FINT=0.5, TILT=90
D4035: DRIFT, L=1.29875
MBTLP01H: GKICK, L=1E-08, DXP=0, DYP=0
D4036: DRIFT, L=3.10901
MMCLP02: SBEND, L=1.00013, ANGLE=3.22237, K1=-0, &
165 E1=1.61119, E2=0, HGAP=0.0199605, &
HGAPX=0, &
FINT=0.5, TILT=90
D4037: DRIFT, L=0.286
IPM1P02A: MONITOR, L=0
170 D4038A: DRIFT, L=0.82
D4038B: DRIFT, L=0.817
IPM1P02B: MONITOR, L=0
D4039: DRIFT, L=0.377
MMCLP03: SBEND, L=1.00013, ANGLE=3.22237, K1=-0, &
175 E1=1.61119, E2=0, HGAP=0.0199605, &
HGAPX=0, &
FINT=0.5, TILT=90
D4040: DRIFT, L=0.906033
IPM1P03A: MONITOR, L=0
180 D4041: DRIFT, L=0.420365
MBTLP04H: GKICK, L=1E-08, DXP=0, DYP=0
D4042: DRIFT, L=3.08136
MMCLP04: SBEND, L=1.00013, ANGLE=-3.22237, K1=-0, &
185 E1=-1.61119, E2=0, HGAP=0.0199605, &
HGAPX=0, &
FINT=0.5, TILT=90
D4043: DRIFT, L=2.5236
AXRAST: GKICK, L=0.5, DXP=8.70341E-07, DYP=0

190 AYRAST: GKICK, L=0.5, DXP=2.30952E-23, DYP=8.70341E-07
D4044: DRIFT, L=3.562
ITV1H01: MONITOR, L=0
D4045: DRIFT, L=0.288
IPM1H01: MONITOR, L=0
MQALH01: QUADRUPOLE, L=0.3, K1=0.581913, TILT=0
195 MAT1H01H: GKICK, L=1E-08, DXP=0, DYP=0
MAT1H01V: GKICK, L=1E-08, DXP=0, DYP=0
D4046: DRIFT, L=0.261
MOELTARG: MONITOR, L=0
D4047: DRIFT, L=0.77475
200 MQM1H02: QUADRUPOLE, L=0.4505, K1=0.0973434, TILT=0
D4048: DRIFT, L=0.67865
MQQ1H03: QUADRUPOLE, L=0.3622, K1=0, TILT=0
D4049: DRIFT, L=0.2948
MQQ1H03A: QUADRUPOLE, L=0.3622, K1=-0.652438, TILT=0
205 D4050: DRIFT, L=0.4959
MMA1H01: SBEND, L=1.618, ANGLE=0, K1=0, &
E1=0, E2=0, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
210 D4051: DRIFT, L=2.95188
MQALH04: QUADRUPOLE, L=0.3, K1=0.242199, TILT=0
D4052: DRIFT, L=0.16787
MCZ1H04H: GKICK, L=1E-08, DXP=0, DYP=0
MCZ1H04V: GKICK, L=1E-08, DXP=0, DYP=0
215 MQALH04A: QUADRUPOLE, L=0.3, K1=0, TILT=0
D4053: DRIFT, L=0.37978
MBD1H04H: GKICK, L=1E-08, DXP=0, DYP=0
D4054: DRIFT, L=0.539
IPM1H04A: MONITOR, L=0
220 IHALH04A: MONITOR, L=0
D4055: DRIFT, L=6.237
IPM1H04B: MONITOR, L=0
IHALH04B: MONITOR, L=0
D4056: DRIFT, L=1.37
225 TARGET: MONITOR, L=0
D4057: DRIFT, L=50

HALLA_5: LINE=(D4000, &
ITV2C00, D4001, M1A1C02, D4002, MBD1C00V, &
230 D4003, MBD1C00AV, D4004, IPM1C01, D4005, &
MQALC01, D4006, M1B1C01H, D4007, IPM1C02, &
D4008, MQALC02, D4009, M1B1C02V, AMAZ1C02V, &
D4010, IPM1C03, D4011, MQALC03, D4012, &
M1B1C03H, D4013, M1B1C04, D4014, IPM1C04, &
235 D4015, MQALC04, D4016, M1B1C04H, D4017, &
AMAZ1C04H, D4018, IPM1C05, D4019, MQALC05, &
D4020, M1B1C05V, D4021, IPM1C06, D4022, &
MQALC06, D4023, M1B1C06V, D4024, IPM1C07, &
D4025, MQALC07, D4026, M1B1C07H, D4027, &
240 M1B1C07V, D4028, AMAZ1C07H, D4029, IHALC07A, &
D4030, AMAZ1C07V, D4031, IHALC07B, D4032, &
IPM1C08, D4033, MQALC08, D4034, M1B1C08H, &
D4035, M1A1C08, D4036, M1A1C05, D4037, &
MQALC09, D4038, M1B1C09V, D4039, M1A1C09, &
245 D4040, M1A1C06, D4041, IPM1C10, D4042, &
MQALC10, D4043, M1B1C10H, D4044, M1A1C10, &
D4045, M1A1C07, D4046, IPM1C11, D4047, &
MQALC11, D4048, M1B1C11V, D4049, M1A1C11, &
D4050, M1A1C08, D4051, IHALC12, D4052, &
250 IPM1C12, D4053, MQALC12, D4054, M1B1C12H, &
D4055, OTR1C12, D4056, M1A1C09, D4057, &
MQALC13, D4058, M1B1C13V, D4059, M1A1C13, &
D4060, M1A1C10, D4061, IPM1C14, D4062, &
MQALC14, D4063, M1B1C12H, D4064, M1A1C14, &
255 D4065, M1A1C11, D4066, MQALC15, D4067, &
M1B1C15V, D4068, M1A1C15, D4069, M1A1C12, &
D4070, IPM1C16, D4071, MQALC16, D4072, &
M1B1C16H, D4073, ITV1C17, D4074, MQALC17, &
D4075, IPM1C18, D4076, MQALC18, D4077, &
260 M1B1C18H, D4078, M1B1C18V, D4079, IHALC18A, &
D4080, IHALC18B, D4081, MQALC19, D4082, &
IPM1C20, D4083, MQALC20, D4084, M1B1C20H, &
D4085, M1B1C20V, D4086, M1C1P01, D4087, &
M1T1P01H, D4088, M1C1P02, D4089, IPM1P02A, &
265 D4090, D4091, IPM1P02B, D4092, M1C1P03, &
D4093, IPM1P03A, D4094, M1T1P04H, D4095, &
M1C1P04, D4096, AXRAST, AYRAST, D4097, &
ITV1H01, D4098, IPM1H01, D4099, MQALH01, &
D4100, MAT1H01H, D4101, MAT1H01V, D4102, &
270 MOELTARG, D4103, MQM1H02, D4104, MQQ1H03, &
D4105, MQQ1H03A, D4106, MMA1H01, D4107, &
MQALH04, D4108, MCZ1H04H, D4109, MCZ1H04V, &
D4110, MQALH04A, D4111, MBD1H04H, D4112, &
IPM1H04A, IHALH04A, D4113, IPM1H04B, IHALH04B, &
275 D4114, TARGET, D4115)
USE, HALLA_5
DIMAT

1

* DIMAD PROGRAM : LAST MODIFIED ON May 27, 2005 *

CONVERTED FROM ../../OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//HALLA_5.OPT

1

TOTAL LENGTH OF MACHINE IS: 198.566 METERS

IN THIS RUN THERE ARE :

176 DISTINCT ELEMENTS. ALLOCATED MXELMD : 177
 234 ELEMENTS IN MACHINE. ALLOCATED MXPOS_D : 236
 48 MATRICES DEFINED. ALLOCATED MAXMAT : 49
 976 VALUES IN ELDAT. ALLOCATED MAXDAT : 976
 0 LCAVS. ALLOCATED MX_LCAV : 1

1

OPERATION LIST ,

MACHINE

1 2 1 0 1 1 1
 20 0 0 0
 20 0 0 0
 0,

ELEMENT	#	BETAX	ALPHAX	BETAY	ALPHAY	ETAX	ETAPX	ETAY	ETAPY	NUX	NUY	ACC.LEN
\$\$INITIAL\$\$	0	20.0000	0.0000	20.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.000
D4000	1	20.0099	-0.0223	20.0099	-0.0223	0.0000	0.0000	0.0000	0.0000	0.00354	0.00354	0.445
ITV2C00	2	20.0099	-0.0223	20.0099	-0.0223	0.0000	0.0000	0.0000	0.0000	0.00354	0.00354	0.445
D4001	3	20.0320	-0.0400	20.0320	-0.0400	0.0000	0.0000	0.0000	0.0000	0.00636	0.00636	0.800
MLALC02	4	19.4918	0.2643	21.4859	-0.5951	0.0320	0.0277	0.0000	0.0000	0.02478	0.02419	3.100
D4002	5	18.9116	0.1950	23.0897	-0.6747	0.0670	0.0277	0.0000	0.0000	0.03525	0.03322	4.363
MBD1C00V	6	18.9116	0.1950	23.0897	-0.6747	0.0670	0.0277	0.0000	0.0000	0.03525	0.03322	4.363
D4003	7	18.2892	0.0622	26.7245	-0.8273	0.1340	0.0277	0.0000	0.0000	0.05602	0.04875	6.783
MBD1C00A	8	18.2892	0.0622	26.7245	-0.8273	0.1340	0.0277	0.0000	0.0000	0.05602	0.04875	6.783
D4004	9	20.4037	-0.3463	42.5289	-1.2963	0.3402	0.0277	0.0000	0.0000	0.11897	0.08417	14.225
IPM1C01	10	20.4037	-0.3463	42.5289	-1.2963	0.3402	0.0277	0.0000	0.0000	0.11897	0.08417	14.225
D4005	11	20.5620	-0.3586	43.1145	-1.3105	0.3464	0.0277	0.0000	0.0000	0.12071	0.08501	14.450
MQALC01	12	19.5787	3.5714	46.5446	-10.3482	0.3445	-0.0409	0.0000	0.0000	0.12307	0.08608	14.750
D4006	13	17.0274	3.3109	54.5358	-11.2090	0.3293	-0.0409	0.0000	0.0000	0.12630	0.08726	15.121
MBCLC01H	14	17.0274	3.3109	54.5358	-11.2090	0.3293	-0.0409	0.0000	0.0000	0.12630	0.08726	15.121
D4007	15	9.1121	2.3241	90.6069	-14.4708	0.2719	-0.0409	0.0000	0.0000	0.14429	0.09044	16.525
IPM1C02	16	9.1121	2.3241	90.6069	-14.4708	0.2719	-0.0409	0.0000	0.0000	0.14429	0.09044	16.525
D4005	17	8.1034	2.1663	97.2259	-14.9925	0.2627	-0.0409	0.0000	0.0000	0.14845	0.09082	16.750
MQALC02	18	7.5919	-0.4070	96.7609	16.4921	0.2630	0.0431	0.0000	0.0000	0.15463	0.09130	17.050
D4008	19	7.7140	-0.4294	92.0086	16.0804	0.2693	0.0431	0.0000	0.0000	0.15767	0.09155	17.196
MBCLC02V	20	7.7140	-0.4294	92.0086	16.0804	0.2693	0.0431	0.0000	0.0000	0.15767	0.09155	17.196
AMAZ1C02	21	7.7140	-0.4294	92.0086	16.0804	0.2693	0.0431	0.0000	0.0000	0.15767	0.09155	17.196
D4009	22	9.5210	-0.6796	47.0948	11.4833	0.3395	0.0431	0.0000	0.0000	0.18811	0.09549	18.825
IPM1C03	23	9.5210	-0.6796	47.0948	11.4833	0.3395	0.0431	0.0000	0.0000	0.18811	0.09549	18.825
D4005	24	9.8341	-0.7141	42.0777	10.8495	0.3492	0.0431	0.0000	0.0000	0.19181	0.09629	19.050
MQALC03	25	9.6749	1.2339	38.1630	2.4621	0.3514	-0.0280	0.0000	0.0000	0.19666	0.09749	19.350
D4010	26	8.3638	1.0866	35.4399	2.3576	0.3356	-0.0280	0.0000	0.0000	0.20666	0.09994	19.915
MBCLC03H	27	8.3638	1.0866	35.4399	2.3576	0.3356	-0.0280	0.0000	0.0000	0.20666	0.09994	19.915
D4011	28	17.6059	-1.8948	5.7192	0.2415	0.0149	-0.0280	0.0000	0.0000	0.51098	0.24837	31.350
MBN1C04	29	22.4273	-2.9708	5.2136	0.2533	0.0009	0.0001	0.0000	0.0000	0.51904	0.27750	32.350
D4012	30	27.2975	-3.3105	4.9435	0.0951	0.0010	0.0001	0.0000	0.0000	0.52403	0.30190	33.125
IPM1C04	31	27.2975	-3.3105	4.9435	0.0951	0.0010	0.0001	0.0000	0.0000	0.52403	0.30190	33.125
D4005	32	28.8070	-3.4089	4.9111	0.0492	0.0010	0.0001	0.0000	0.0000	0.52530	0.30916	33.350
MQALC04	33	28.7538	3.5819	5.2639	-1.2534	0.0010	-0.0002	0.0000	0.0000	0.52694	0.31867	33.650
D4006	34	26.1643	3.4036	6.2603	-1.4345	0.0009	-0.0002	0.0000	0.0000	0.52909	0.32896	34.020
MBCLC04H	35	26.1643	3.4036	6.2603	-1.4345	0.0009	-0.0002	0.0000	0.0000	0.52909	0.32896	34.020
D4007	36	17.5514	2.7280	11.2539	-2.1206	0.0007	-0.0002	0.0000	0.0000	0.53953	0.35572	35.425
AMAZ1C04	37	17.5514	2.7280	11.2539	-2.1206	0.0007	-0.0002	0.0000	0.0000	0.53953	0.35572	35.425
D4013	38	12.5764	2.2470	15.9835	-2.6090	0.0006	-0.0002	0.0000	0.0000	0.55025	0.36760	36.425
IPM1C05	39	12.5764	2.2470	15.9835	-2.6090	0.0006	-0.0002	0.0000	0.0000	0.55025	0.36760	36.425
D4005	40	11.5911	2.1390	17.1804	-2.7188	0.0005	-0.0002	0.0000	0.0000	0.55321	0.36975	36.650
MQALC05	41	10.7977	0.5416	18.1164	-0.3585	0.0005	-0.0001	0.0000	0.0000	0.55751	0.37244	36.950
D4010	42	10.2240	0.4739	18.5414	-0.3937	0.0005	-0.0001	0.0000	0.0000	0.56607	0.37735	37.515
MBCLC05V	43	10.2240	0.4739	18.5414	-0.3937	0.0005	-0.0001	0.0000	0.0000	0.56607	0.37735	37.515
D4014	44	8.9572	-0.2699	25.8337	-0.7805	-0.0001	-0.0001	0.0000	0.0000	0.67847	0.42314	43.725
IPM1C06	45	8.9572	-0.2699	25.8337	-0.7805	-0.0001	-0.0001	0.0000	0.0000	0.67847	0.42314	43.725
D4005	46	9.0845	-0.2968	26.1875	-0.7945	-0.0001	-0.0001	0.0000	0.0000	0.68244	0.42452	43.950
MQALC06	47	9.2282	-0.1814	26.8003	-1.2515	-0.0001	-0.0001	0.0000	0.0000	0.68765	0.42632	44.250
D4010	48	9.4690	-0.2447	28.2450	-1.3056	-0.0002	-0.0001	0.0000	0.0000	0.69727	0.42959	44.815
MBCLC06V	49	9.4690	-0.2447	28.2450	-1.3056	-0.0002	-0.0001	0.0000	0.0000	0.69727	0.42959	44.815
D4015	50	13.5135	-0.7159	40.9361	-1.7087	-0.0005	-0.0001	0.0000	0.0000	0.75797	0.44935	49.025
IPM1C07	51	13.5135	-0.7159	40.9361	-1.7087	-0.0005	-0.0001	0.0000	0.0000	0.75797	0.44935	49.025
D4005	52	13.8408	-0.7411	41.7087	-1.7302	-0.0005	-0.0001	0.0000	0.0000	0.76059	0.45021	49.250
MQALC07	53	14.7593	-2.3537	41.3942	2.7673	-0.0006	-0.0001	0.0000	0.0000	0.76395	0.45135	49.550
D4016	54	15.2148	-2.3962	40.8653	2.7473	-0.0006	-0.0001	0.0000	0.0000	0.76496	0.45172	49.646
MBCLC07H	55	15.2148	-2.3962	40.8653	2.7473	-0.0006	-0.0001	0.0000	0.0000	0.76496	0.45172	49.646
D4017	56	15.4556	-2.4184	40.5911	2.7368	-0.0006	-0.0001	0.0000	0.0000	0.76548	0.45192	49.696
MBCLC07V	57	15.4556	-2.4184	40.5911	2.7368	-0.0006	-0.0001	0.0000	0.0000	0.76548	0.45192	49.696
D4018	58	19.6086	-2.7729	36.3461	2.5695	-0.0007	-0.0001	0.0000	0.0000	0.77280	0.45524	50.496
AMAZ1C07	59	19.6086	-2.7729	36.3461	2.5695	-0.0007	-0.0001	0.0000	0.0000	0.77280	0.45524	50.496
D4019	60	20.7355	-2.8615	35.3267	2.5276	-0.0007	-0.0001	0.0000	0.0000	0.77438	0.45612	50.696
IHALC07A	61	20.7355	-2.8615	35.3267	2.5276	-0.0007	-0.0001	0.0000	0.0000	0.77438	0.45612	50.696
D4019	62	21.8978	-2.9501	34.3240	2.4858	-0.0008	-0.0001	0.0000	0.0000	0.77587	0.45704	50.896
AMAZ1C07	63	21.8978	-2.9501	34.3240	2.4858	-0.0008	-0.0001	0.0000	0.0000	0.77587	0.45704	50.896
D4020	64	45.5738	-4.3811	20.4498	1.8103	-0.0012	-0.0001	0.0000	0.0000	0.79217	0.47649	54.125
IHALC07B	65	45.5738	-4.3811	20.4498	1.8103	-0.0012	-0.0001	0.0000	0.0000	0.79217	0.47649	54.125
D4013	66	54.7792	-4.8243	17.0383	1.6012	-0.0014	-0.0001	0.0000	0.0000	0.79536	0.48502	55.125
IPM1C08	67	54.7792	-4.8243	17.0383	1.6012	-0.0014	-0.0001	0.0000	0.0000	0.79536	0.48502	55.125
D4005	68	56.9691	-4.9238	16.3294	1.5542	-0.0014	-0.0001	0.0000	0.0000	0.79600	0.48716	55.350
MQALC08	69	57.3381	3.7125	16.1369	-0.9029	-0.0014	0.0001	0.0000	0.0000	0.79682	0.49012	55.650

D4021	70	55.9135	3.6627	16.4899	-0.9246	-0.0014	0.0001	0.0000	0.0000	0.79737	0.49201	55.843
MBC1C08H	71	55.9135	3.6627	16.4899	-0.9246	-0.0014	0.0001	0.0000	0.0000	0.79737	0.49201	55.843
D4022	72	54.8071	3.6236	16.7733	-0.9417	-0.0014	0.0001	0.0000	0.0000	0.79780	0.49346	55.995
MSALC08	73	53.7258	3.5849	17.0584	-0.9586	-0.0014	0.0001	0.0000	0.0000	0.79824	0.49487	56.145
D4023	74	49.4825	3.4289	18.2594	-1.0266	-0.0013	0.0001	0.0000	0.0000	0.80011	0.50033	56.750
MBALC05	75	31.3963	2.6138	25.2184	-1.2833	0.1111	0.0750	0.0000	0.0000	0.81223	0.52264	59.750
D4018	76	27.3740	2.4142	27.3388	-1.3672	0.1711	0.0750	0.0000	0.0000	0.81658	0.52749	60.550
MQALC09	77	25.9479	2.3394	28.1686	-1.3987	0.1936	0.0750	0.0000	0.0000	0.81837	0.52921	60.850
D4021	78	25.0535	2.2912	28.7128	-1.4190	0.2081	0.0750	0.0000	0.0000	0.81958	0.53029	61.043
MBC1C09V	79	25.0535	2.2912	28.7128	-1.4190	0.2081	0.0750	0.0000	0.0000	0.81958	0.53029	61.043
D4022	80	24.3634	2.2533	29.1462	-1.4349	0.2195	0.0750	0.0000	0.0000	0.82055	0.53112	61.195
MSALC09	81	23.6930	2.2159	29.5790	-1.4507	0.2307	0.0750	0.0000	0.0000	0.82155	0.53194	61.345
D4023	82	21.1031	2.0650	31.3728	-1.5142	0.2761	0.0750	0.0000	0.0000	0.82585	0.53510	61.950
MBALC06	83	11.0222	1.3031	41.0453	-1.6965	0.6138	0.1504	0.0000	0.0000	0.85736	0.54841	64.950
D4024	84	9.6038	1.1623	43.0287	-1.7509	0.7003	0.1504	0.0000	0.0000	0.86626	0.55059	65.525
IPM1C10	85	9.6038	1.1623	43.0287	-1.7509	0.7003	0.1504	0.0000	0.0000	0.86626	0.55059	65.525
D4005	86	9.0939	1.1073	43.8202	-1.7721	0.7341	0.1504	0.0000	0.0000	0.87009	0.55141	65.750
MQALC10	87	8.4516	1.0338	44.8919	-1.8004	0.7793	0.1504	0.0000	0.0000	0.87554	0.55249	66.050
D4021	88	8.0614	0.9866	45.5909	-1.8187	0.8083	0.1504	0.0000	0.0000	0.87926	0.55317	66.243
MBC1C10H	89	8.0614	0.9866	45.5909	-1.8187	0.8083	0.1504	0.0000	0.0000	0.87926	0.55317	66.243
D4022	90	7.7674	0.9494	46.1454	-1.8330	0.8312	0.1504	0.0000	0.0000	0.88232	0.55370	66.395
MSALC10	91	7.4881	0.9127	46.6975	-1.8472	0.8537	0.1504	0.0000	0.0000	0.88545	0.55421	66.545
D4023	92	6.4734	0.7646	48.9672	-1.9044	0.9448	0.1504	0.0000	0.0000	0.89929	0.55622	67.150
MBALC07	93	4.1064	0.0262	60.7024	-1.9910	1.5102	0.2270	0.0000	0.0000	0.99810	0.56498	70.150
D4024	94	4.1569	-0.1140	63.0205	-2.0381	1.6408	0.2270	0.0000	0.0000	1.02034	0.56646	70.725
IPM1C11	95	4.1569	-0.1140	63.0205	-2.0381	1.6408	0.2270	0.0000	0.0000	1.02034	0.56646	70.725
D4005	96	4.2204	-0.1687	63.9404	-2.0564	1.6918	0.2270	0.0000	0.0000	1.02888	0.56702	70.950
MQALC11	97	4.5031	-0.7850	62.8342	-2.0381	1.6918	0.2270	0.0000	0.0000	1.03991	0.56777	71.250
D4021	98	4.8197	-0.8543	60.6528	-2.0381	1.6918	0.2270	0.0000	0.0000	1.04651	0.56827	71.443
MBC1C11V	99	4.8197	-0.8543	60.6528	-2.0381	1.6918	0.2270	0.0000	0.0000	1.04651	0.56827	71.443
D4022	100	5.0875	-0.9088	58.9657	-2.0381	1.6918	0.2270	0.0000	0.0000	1.05139	0.56867	71.595
MSALC11	101	5.3682	-0.9627	57.3233	-2.0381	1.6918	0.2270	0.0000	0.0000	1.05996	0.56909	71.745
D4023	102	6.6644	-1.1798	50.9423	-2.0381	1.6918	0.2270	0.0000	0.0000	1.07209	0.57087	72.350
MBALC08	103	17.0127	-2.2776	24.7305	-3.5883	3.7093	0.5183	0.0000	0.0000	1.11753	0.58433	75.350
D4025	104	18.2502	-2.3744	22.8613	-3.4390	3.8471	0.5183	0.0000	0.0000	1.11993	0.58611	75.616
IHALC12	105	18.2502	-2.3744	22.8613	-3.4390	3.8471	0.5183	0.0000	0.0000	1.11993	0.58611	75.616
D4026	106	19.7540	-2.4869	20.7872	-3.2655	4.0075	0.5183	0.0000	0.0000	1.12253	0.58836	75.925
IPM1C12	107	19.7540	-2.4869	20.7872	-3.2655	4.0075	0.5183	0.0000	0.0000	1.12253	0.58836	75.925
D4005	108	20.8897	-2.5686	19.3484	-3.1394	4.1239	0.5183	0.0000	0.0000	1.12429	0.59015	76.150
MQALC12	109	20.8886	-2.5724	18.8817	-3.0127	4.1267	-0.4998	0.0000	0.0000	1.12654	0.59268	76.450
D4021	110	19.9084	-2.5020	19.4855	-3.0127	4.1267	-0.4998	0.0000	0.0000	1.12805	0.59428	76.643
MBC1C12H	111	19.9084	-2.5020	19.4855	-3.0127	4.1267	-0.4998	0.0000	0.0000	1.12805	0.59428	76.643
D4027	112	18.4401	-2.3926	20.4499	-3.0127	4.1267	-0.4998	0.0000	0.0000	1.13054	0.59667	76.943
OTR1C12	113	18.4401	-2.3926	20.4499	-3.0127	4.1267	-0.4998	0.0000	0.0000	1.13054	0.59667	76.943
D4028	114	15.6705	-2.1713	22.4995	-2.7432	3.5770	-0.4998	0.0000	0.0000	1.13623	0.60117	77.550
MBALC09	115	5.9645	1.0716	34.2947	-2.1721	2.1977	-0.4209	0.0000	0.0000	1.18643	0.61838	80.550
D4018	116	4.4805	0.7834	37.8768	-2.3055	1.8609	-0.4209	0.0000	0.0000	1.21116	0.62192	81.350
MQALC13	117	4.1784	0.2343	38.0431	-2.3055	1.7570	-0.2276	0.0000	0.0000	1.22226	0.62317	81.650
D4021	118	4.0973	0.1856	37.3684	-2.3055	1.7200	-0.2276	0.0000	0.0000	1.22969	0.62398	81.843
MBC1C13V	119	4.0973	0.1856	37.3684	-2.3055	1.7200	-0.2276	0.0000	0.0000	1.22969	0.62398	81.843
D4022	120	4.0468	0.1472	36.8436	-2.3055	1.6854	-0.2276	0.0000	0.0000	1.23563	0.62464	81.995
MSALC13	121	4.0083	0.1094	36.3300	-2.3055	1.6513	-0.2276	0.0000	0.0000	1.24156	0.62529	82.145
D4023	122	3.9684	-0.0434	34.3078	-2.3055	1.5136	-0.2276	0.0000	0.0000	1.26580	0.62802	82.750
MBALC10	123	6.5168	-0.8081	25.1613	-1.3972	0.9463	-0.1510	0.0000	0.0000	1.36619	0.64428	85.750
D4024	124	7.5306	-0.9540	23.5924	-1.3297	0.8594	-0.1510	0.0000	0.0000	1.37928	0.64804	86.325
IPM1C14	125	7.5306	-0.9540	23.5924	-1.3297	0.8594	-0.1510	0.0000	0.0000	1.37928	0.64804	86.325
D4005	126	7.9720	-1.0110	23.0009	-1.3034	0.8255	-0.1510	0.0000	0.0000	1.38389	0.64958	86.550
MQALC14	127	8.6014	-1.0871	22.2294	-1.2682	0.7802	-0.1510	0.0000	0.0000	1.38966	0.65169	86.850
D4021	128	9.0308	-1.1361	21.7439	-1.2455	0.7510	-0.1510	0.0000	0.0000	1.39315	0.65309	87.043
MBC1C12H	129	9.0308	-1.1361	21.7439	-1.2455	0.7510	-0.1510	0.0000	0.0000	1.39315	0.65309	87.043
D4022	130	9.3817	-1.1746	21.3683	-1.2277	0.7281	-0.1510	0.0000	0.0000	1.39577	0.65421	87.195
MSALC14	131	9.7398	-1.2126	21.0027	-1.2101	0.7054	-0.1510	0.0000	0.0000	1.39827	0.65534	87.345
D4023	132	11.2999	-1.3661	19.5814	-1.1391	0.6140	-0.1510	0.0000	0.0000	1.40745	0.66008	87.950
MBALC11	133	21.8402	-2.1555	13.6489	-0.8301	0.2745	-0.0756	0.0000	0.0000	1.43803	0.68944	90.950
D4018	134	25.4545	-2.3623	12.3998	-0.7311	0.2141	-0.0756	0.0000	0.0000	1.44343	0.69923	91.750
MQALC15	135	26.8951	-2.4399	11.9723	-0.6940	0.1914	-0.0756	0.0000	0.0000	1.44525	0.70315	92.050
D4021	136	27.8473	-2.4898	11.7088	-0.6701	0.1768	-0.0756	0.0000	0.0000	1.44638	0.70574	92.243
MBC1C15V	137	27.8473	-2.4898	11.7088	-0.6701	0.1768	-0.0756	0.0000	0.0000	1.44638	0.70574	92.243
D4022	138	28.6094	-2.5291	11.5082	-0.6513	0.1653	-0.0756	0.0000	0.0000	1.44723	0.70783	92.395
MSALC15	139	29.3740	-2.5679	11.3156	-0.6327	0.1540	-0.0756	0.0000	0.0000	1.44806	0.70992	92.545
D4023	140	32.5757	-2.7243	10.5952	-0.5579	0.1082	-0.0756	0.0000	0.0000	1.45117	0.71872	93.150
MBALC12	141	51.4125	-3.5693	8.2758	-0.2120	-0.0060	-0.0007	0.0000	0.0000	1.46284	0.77058	96.150
D4024	142	55.6081	-3.7230	8.0736	-0.1394	-0.0064	-0.0007	0.0000	0.0000	1.46456	0.78180	96.725
IPM1C16	143	55.6081	-3.7230	8.0736	-0.1394	-0.0064	-0.0007	0.0000	0.0000	1.46456	0.78180	96.725
D4005	144	57.2944	-3.7830	8.0173	-0.1110	-0.0066	-0.0007	0.0000	0.0000	1.46519	0.78624	96.950
MQALC16	145	58.9655	-1.7678	8.0471	-0.2107	-0.0067	-0.0004	0.0000	0.0000	1.46601	0.79220	97.250
D4021	146	59.6511	-1.7813	8.1334	-0.2358	-0.0068	-0.0004	0.0000	0.0000	1.46653	0.79600	97.443
MBC1C16H	147	59.6511	-1.7813	8.1334	-0.2358	-0.0068	-0.0004	0.0000	0.0000	1.46653	0.79600	97.443
D4029	148	65.8939	-1.8999	9.3063	-0.4559	-0.0076	-0.0004	0.0000	0.0000	1.47083	0.82722	99.139
ITV1C17	149	65.8939	-1.8999	9.3063	-0.4559	-0.0076	-0.0004	0.0000	0.0000	1.47083	0.82722	99.139
D4030	150	66.5075	-1.9112	9.4565	-0.4768	-0.0077	-0.0004	0.0000	0.0000	1.47122	0.82995	99.300
MQALC17	151	67.4545	-1.2424	9.7838	-0.6155	-0.0078	-0.0004	0.0000	0.0000	1.47193	0.83492	99.600
D4027	152	68.2034	-1.2537	10.1658	-0.6578	-0.0079	-0.0004	0.0000	0.0000	1.47264	0.83971	99.900
IPM1C18	153	68.2034	-1.2537	10.1658	-0.6578	-0.0079	-0.0004	0.0000	0.000			

D4034	174	68.2645	8.8639	11.0613	1.3448	-0.0097	0.0011	0.0000	0.0000	1.49248	0.91193	107.426
MMCLP01	175	51.5200	7.7747	8.6265	1.1046	-0.0086	0.0011	-0.0281	-0.0562	1.49516	0.92825	108.426
D4035	176	33.3369	6.2258	6.1913	0.7704	-0.0072	0.0011	-0.1011	-0.0562	1.50015	0.95668	109.725
MBTLP01H	177	33.3369	6.2258	6.1913	0.7704	-0.0072	0.0011	-0.1011	-0.0562	1.50015	0.95668	109.725
D4036	178	6.1533	2.5177	3.8888	-0.0298	-0.0039	0.0011	-0.2759	-0.0562	1.53498	1.06589	112.834
MMCLP02	179	2.2992	1.3266	4.2056	-0.2048	-0.0028	0.0011	-0.3040	0.0005	1.57781	1.10565	113.834
D4037	180	1.6386	0.9833	4.3870	-0.3538	-0.0025	0.0011	-0.3038	0.0005	1.60135	1.11625	114.120
IPM1P02A	181	1.6386	0.9833	4.3870	-0.3538	-0.0025	0.0011	-0.3038	0.0005	1.60135	1.11625	114.120
D4038A	182	0.8331	-0.0010	5.1396	-0.5641	-0.0016	0.0011	-0.3034	0.0005	1.72517	1.14387	114.940
D4038B	183	1.6359	-0.9817	6.2325	-0.7736	-0.0008	0.0011	-0.3029	0.0005	1.84853	1.16693	115.757
IPM1P02B	184	1.6359	-0.9817	6.2325	-0.7736	-0.0008	0.0011	-0.3029	0.0005	1.84853	1.16693	115.757
D4039	185	2.5467	-1.4342	6.8523	-0.8703	-0.0004	0.0011	-0.3027	0.0005	1.87810	1.17612	116.134
MMCLP03	186	6.6041	-2.6265	8.8485	-1.1127	0.0007	0.0011	-0.2741	0.0572	1.91731	1.19660	117.134
D4040	187	12.3452	-3.7101	11.0724	-1.3419	0.0017	0.0011	-0.2223	0.0572	1.93331	1.21119	118.040
IPM1P03A	188	12.3452	-3.7101	11.0724	-1.3419	0.0017	0.0011	-0.2223	0.0572	1.93331	1.21119	118.040
D4041	189	15.6757	-4.2128	12.2452	-1.4482	0.0021	0.0011	-0.1982	0.0572	1.93812	1.21694	118.461
MBTLP04H	190	15.6757	-4.2128	12.2452	-1.4482	0.0021	0.0011	-0.1982	0.0572	1.93812	1.21694	118.461
D4042	191	52.9938	-7.8981	23.5715	-2.2276	0.0055	0.0011	-0.0219	0.0572	1.95516	1.24597	121.542
MMCLP04	192	69.8035	-8.9899	28.2776	-2.4357	0.0065	0.0011	0.0072	0.0009	1.95778	1.25213	122.542
D4043	193	122.6420	-11.9479	42.1323	-3.0544	0.0092	0.0011	0.0095	0.0009	1.96212	1.26378	125.066
AXRAST	194	134.8829	-12.5339	45.2479	-3.1769	0.0098	0.0011	0.0100	0.0009	1.96274	1.26560	125.566
AYRAST	195	147.7098	-13.1200	48.4861	-3.2995	0.0103	0.0011	0.0105	0.0009	1.96330	1.26730	126.066
D4044	196	256.0483	-17.2951	75.1024	-4.1728	0.0141	0.0011	0.0139	0.0009	1.96622	1.27670	129.628
ITV1H01	197	256.0483	-17.2951	75.1024	-4.1728	0.0141	0.0011	0.0139	0.0009	1.96622	1.27670	129.628
D4045	198	266.1074	-17.6326	77.5262	-4.2434	0.0144	0.0011	0.0141	0.0009	1.96640	1.27730	129.916
IPM1H01	199	266.1074	-17.6326	77.5262	-4.2434	0.0144	0.0011	0.0141	0.0009	1.96640	1.27730	129.916
D4019	200	273.2074	-17.8671	79.2334	-4.2924	0.0146	0.0011	0.0143	0.0009	1.96651	1.27770	130.116
MQALH01	201	269.6005	29.6795	86.1447	-19.1462	0.0145	-0.0015	0.0150	0.0035	1.96669	1.27829	130.416
D4031	202	258.2661	29.0481	93.6941	-19.9697	0.0143	-0.0015	0.0157	0.0035	1.96680	1.27863	130.609
MAT1H01H	203	258.2661	29.0481	93.6941	-19.9697	0.0143	-0.0015	0.0157	0.0035	1.96680	1.27863	130.609
D4032	204	247.0048	28.4070	101.6861	-20.8060	0.0140	-0.0015	0.0164	0.0035	1.96693	1.27895	130.805
MAT1H01V	205	247.0048	28.4070	101.6861	-20.8060	0.0140	-0.0015	0.0164	0.0035	1.96693	1.27895	130.805
D4046	206	232.3992	27.5533	112.8375	-21.9197	0.0136	-0.0015	0.0173	0.0035	1.96710	1.27934	131.066
MOBLTARG	207	232.3992	27.5533	112.8375	-21.9197	0.0136	-0.0015	0.0173	0.0035	1.96710	1.27934	131.066
D4047	208	191.6688	25.0191	149.3633	-25.2255	0.0124	-0.0015	0.0200	0.0035	1.96769	1.28029	131.841
MQM1H02	209	166.3201	30.8778	176.2340	-34.8131	0.0116	-0.0020	0.0248	0.0044	1.96809	1.28073	132.291
D4048	210	127.0527	26.9833	226.6558	-39.4840	0.0103	-0.0020	0.0248	0.0044	1.96883	1.28127	132.970
MQO1H03	211	108.2588	24.9048	256.1609	-41.9769	0.0095	-0.0020	0.0263	0.0044	1.96932	1.28151	133.332
D4049	212	94.0737	23.2131	281.5087	-44.0059	0.0089	-0.0020	0.0276	0.0044	1.96979	1.28168	133.627
MQO1H03A	213	85.3410	1.5811	289.0605	23.7543	0.0086	0.0000	0.0280	-0.0022	1.97044	1.28188	133.989
D4050	214	83.7830	1.5607	265.9819	22.7846	0.0086	0.0000	0.0269	-0.0022	1.97137	1.28217	134.485
MMALH01	215	78.8398	1.4944	197.3704	19.6205	0.0087	0.0000	0.0234	-0.0022	1.97454	1.28329	136.103
D4051	216	70.3747	1.3733	98.5754	13.8480	0.0088	0.0000	0.0168	-0.0022	1.98085	1.28666	139.055
MQALH04	217	68.0434	6.3412	92.4870	6.5939	0.0087	-0.0006	0.0163	-0.0010	1.98154	1.28716	139.355
D4052	218	65.9315	6.2395	90.2867	6.5132	0.0086	-0.0006	0.0162	-0.0010	1.98194	1.28745	139.523
MCZ1H04H	219	65.9315	6.2395	90.2867	6.5132	0.0086	-0.0006	0.0162	-0.0010	1.98194	1.28745	139.523
D4017	220	65.3091	6.2092	89.6366	6.4891	0.0086	-0.0006	0.0161	-0.0010	1.98206	1.28754	139.573
MCZ1H04V	221	65.3091	6.2092	89.6366	6.4891	0.0086	-0.0006	0.0161	-0.0010	1.98206	1.28754	139.573
D4052	222	63.2414	6.1076	87.4715	6.4084	0.0085	-0.0006	0.0159	-0.0010	1.98247	1.28784	139.740
MQALH04A	223	59.6314	5.9259	83.6697	6.2641	0.0083	-0.0006	0.0156	-0.0010	1.98325	1.28840	140.040
D4053	224	55.2177	5.6958	78.9811	6.0815	0.0081	-0.0006	0.0152	-0.0010	1.98430	1.28915	140.420
MBD1H04H	225	55.2177	5.6958	78.9811	6.0815	0.0081	-0.0006	0.0152	-0.0010	1.98430	1.28915	140.420
D4054	226	49.2536	5.3694	72.5650	5.8223	0.0077	-0.0006	0.0147	-0.0010	1.98595	1.29028	140.959
IPM1H04A	227	49.2536	5.3694	72.5650	5.8223	0.0077	-0.0006	0.0147	-0.0010	1.98595	1.29028	140.959
IHALH04A	228	49.2536	5.3694	72.5650	5.8223	0.0077	-0.0006	0.0147	-0.0010	1.98595	1.29028	140.959
D4055	229	5.8356	1.5920	18.6465	2.8227	0.0040	-0.0006	0.0084	-0.0010	2.04591	1.31740	147.196
IPM1H04B	230	5.8356	1.5920	18.6465	2.8227	0.0040	-0.0006	0.0084	-0.0010	2.04591	1.31740	147.196
IHALH04B	231	5.8356	1.5920	18.6465	2.8227	0.0040	-0.0006	0.0084	-0.0010	2.04591	1.31740	147.196
D4056	232	2.6104	0.7622	11.8149	2.1638	0.0032	-0.0006	0.0070	-0.0010	2.10299	1.33211	148.566
TARGET	233	2.6104	0.7622	11.8149	2.1638	0.0032	-0.0006	0.0070	-0.0010	2.10299	1.33211	148.566
D4057	234	1440.5169	-29.5203	997.7547	-21.8826	-0.0267	-0.0006	-0.0438	-0.0010	2.45125	1.75594	198.566

MAXIMUM LATTICE FUNCTIONS :
 BETA X = 0.1440516920E+04 BETA Y = 0.9977547217E+03
 ETA X = 0.4126699033E+01 ETA Y = 0.2804815529E-01

1
 OPERATION LIST ,

MATRIX

1 -1,

AFTER :D4057 ELEMENT #: 234

 * TRANSFORMATION MATRIX *

FIRST ORDER MATRIX

- -0.8091836E+01 0.5117826E+02 0.1479615E-15 -0.1227904E-14 0.0000000E+00 -0.2668276E-01
 - -0.1676014E+00 0.9364437E+00 0.2611976E-17 -0.4057568E-16 0.0000000E+00 -0.5975073E-03
 - -0.5493608E-15 0.9332960E-15 0.2635478E+00 -0.1411641E+03 0.0000000E+00 -0.4383814E-01
 - -0.1289597E-16 0.2699890E-16 0.1285418E-01 -0.3090710E+01 0.0000000E+00 -0.1016127E-02
 - 0.3628622E-03 -0.5592478E-02 0.2957054E-03 0.7949757E-02 0.1000000E+01 0.6552642E+00
 - 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.1000000E+01

HORIZONTAL MOVEMENT ANALYSIS

COMPACTION FACTOR = 0.3299975E-02 GAMMA TR = 0.1740783E+02

MOVEMENT IS UNSTABLE

HALF-TRACE = -0.35776961756510E+01
 EIGENVALUE1 = -0.14259647909665E+00

WITH EIGENVECTOR :
 X = -0.98815111352208E+00 XP = -0.15348412571033E+00
 EIGENVALUE2 = -0.70127958722054E+01
 WITH EIGENVECTOR :
 X = -0.9997780743588E+00 XP = -0.21079273201509E-01

VERTICAL MOVEMENT ANALYSIS

MOVEMENT IS UNSTABLE

HALF-TRACE = -0.14135809117550E+01
 EIGENVALUE1 = -0.41447581514200E+00
 WITH EIGENVECTOR :
 Y = 0.9999884637800E+00 YP = 0.48030314336695E-02
 EIGENVALUE2 = -0.24126860083680E+01
 WITH EIGENVECTOR :
 Y = 0.99982033961068E+00 YP = 0.18954907037118E-01

1
OPERATION LIST ,

HARDWARE

11.022 6314.18 -80.6 100.022 -258.315 180 0.0 0 1 0;

VALUES ARE FOR ENERGY : 0.110E+02 GEV

THE LENGTHS ARE MEASURED IN METERS ,THE ANGLES IN DEGREES

THE SKYZ COORDINATES,AZIMUTH,ELEVATION AND ROLL ANGLES ARE :

#	NAME	S	X	Y	Z	THETA	PHI	PSI
1	D4000	6314.6253900000	-80.6000000000	100.0220000000	-258.7603900000	-180.0000000000	0.0000000000	0.0000000000
2	ITV2C00	6314.6253900000	-80.6000000000	100.0220000000	-258.7603900000	-180.0000000000	0.0000000000	0.0000000000
3	D4001	6314.9798900000	-80.6000000000	100.0220000000	-259.1148900000	-180.0000000000	0.0000000000	0.0000000000
4	MLA1C02	6317.2798900000	-80.5678878280	100.0220000000	-261.4145910767	178.3999900000	0.0000000000	0.0000000000
5	D4002	6318.5428900000	-80.5326225779	100.0220000000	-262.6770986458	178.3999900000	0.0000000000	0.0000000000
6	MBD1C00V	6318.5428900100	-80.5326225776	100.0220000000	-262.6770986558	178.3999900000	0.0000000000	0.0000000000
7	D4003	6320.9628900100	-80.4650517897	100.0220000000	-265.0961551224	178.3999900000	0.0000000000	0.0000000000
8	MBD1C00A	6320.9628900200	-80.4650517894	100.0220000000	-265.0961551324	178.3999900000	0.0000000000	0.0000000000
9	D4004	6328.4052400200	-80.2572478831	100.0220000000	-272.5356034358	178.3999900000	0.0000000000	0.0000000000
10	IPM1C01	6328.4052400200	-80.2572478831	100.0220000000	-272.5356034358	178.3999900000	0.0000000000	0.0000000000
11	D4005	6328.6298900200	-80.2509752477	100.0220000000	-272.7601658471	178.3999900000	0.0000000000	0.0000000000
12	MQA1C01	6328.9298900200	-80.2425987038	100.0220000000	-273.0600488801	178.3999900000	0.0000000000	0.0000000000
13	D4006	6329.3005900200	-80.2322480876	100.0220000000	-273.4306043480	178.3999900000	0.0000000000	0.0000000000
14	MBCLC01H	6329.3005900300	-80.2322480873	100.0220000000	-273.4306043580	178.3999900000	0.0000000000	0.0000000000
15	D4007	6330.7052400300	-80.1930277124	100.0220000000	-274.8347066992	178.3999900000	0.0000000000	0.0000000000
16	IPM1C02	6330.7052400300	-80.1930277124	100.0220000000	-274.8347066992	178.3999900000	0.0000000000	0.0000000000
17	D4005	6330.9298900300	-80.1867550771	100.0220000000	-275.0592691105	178.3999900000	0.0000000000	0.0000000000
18	MQA1C02	6331.2298900300	-80.1783785332	100.0220000000	-275.3591521435	178.3999900000	0.0000000000	0.0000000000
19	D4008	6331.3757900300	-80.1743047406	100.0220000000	-275.5049952586	178.3999900000	0.0000000000	0.0000000000
20	MBCLC02V	6331.3757900400	-80.1743047403	100.0220000000	-275.5049952686	178.3999900000	0.0000000000	0.0000000000
21	AMAZ1C02	6331.3757900500	-80.1743047401	100.0220000000	-275.5049952786	178.3999900000	0.0000000000	0.0000000000
22	D4009	6333.0052400500	-80.1288075416	100.0220000000	-277.1338099726	178.3999900000	0.0000000000	0.0000000000
23	IPM1C03	6333.0052400500	-80.1288075416	100.0220000000	-277.1338099726	178.3999900000	0.0000000000	0.0000000000
24	D4005	6333.2298900500	-80.1225349062	100.0220000000	-277.3583723838	178.3999900000	0.0000000000	0.0000000000
25	MQA1C03	6333.5298900500	-80.1141583623	100.0220000000	-277.6582554169	178.3999900000	0.0000000000	0.0000000000
26	D4010	6334.0948900500	-80.0983825378	100.0220000000	-278.2230351291	178.3999900000	0.0000000000	0.0000000000
27	MBCLC03H	6334.0948900600	-80.0983825375	100.0220000000	-278.2230351391	178.3999900000	0.0000000000	0.0000000000
28	D4011	6345.5297900600	-79.7790993959	100.0220000000	-289.6534767879	176.7999900000	0.0000000000	0.0000000000
29	MBN1C04	6346.5297900600	-79.7372249284	100.0220000000	-290.6525671470	176.7999900000	0.0000000000	0.0000000000
30	D4012	6347.3051400600	-79.6939435894	100.0220000000	-291.4267081859	176.7999900000	0.0000000000	0.0000000000
31	IPM1C04	6347.3051400600	-79.6939435894	100.0220000000	-291.4267081859	176.7999900000	0.0000000000	0.0000000000
32	D4005	6347.5297900600	-79.6814032492	100.0220000000	-291.6510079014	176.7999900000	0.0000000000	0.0000000000
33	MQA1C04	6347.8297900600	-79.6646567454	100.0220000000	-291.9505401277	176.7999900000	0.0000000000	0.0000000000
34	D4006	6348.2004900600	-79.6439636489	100.0220000000	-292.3206621154	176.7999900000	0.0000000000	0.0000000000
35	MBCLC04H	6348.2004900700	-79.6439636483	100.0220000000	-292.3206621254	176.7999900000	0.0000000000	0.0000000000
36	D4007	6349.6051400700	-79.5655537266	100.0220000000	-293.7231219311	176.7999900000	0.0000000000	0.0000000000
37	AMAZ1C04	6349.6051400800	-79.5655537260	100.0220000000	-293.7231219411	176.7999900000	0.0000000000	0.0000000000
38	D4013	6350.6051400800	-79.5097320468	100.0220000000	-294.7215626955	176.7999900000	0.0000000000	0.0000000000
39	IPM1C05	6350.6051400800	-79.5097320468	100.0220000000	-294.7215626955	176.7999900000	0.0000000000	0.0000000000
40	D4005	6350.8297900800	-79.4971917065	100.0220000000	-294.9458624110	176.7999900000	0.0000000000	0.0000000000
41	MQA1C05	6351.1297900800	-79.4804452027	100.0220000000	-295.2453946374	176.7999900000	0.0000000000	0.0000000000
42	D4010	6351.6947900800	-79.4489059540	100.0220000000	-295.8095136636	176.7999900000	0.0000000000	0.0000000000
43	MBCLC05V	6351.6947900900	-79.4489059534	100.0220000000	-295.8095136736	176.7999900000	0.0000000000	0.0000000000
44	D4014	6357.9051400900	-79.1022337877	100.0220000000	-302.0101802129	176.7999900000	0.0000000000	0.0000000000
45	IPM1C06	6357.9051400900	-79.1022337877	100.0220000000	-302.0101802129	176.7999900000	0.0000000000	0.0000000000
46	D4005	6358.1297900900	-79.0896934474	100.0220000000	-302.2344799284	176.7999900000	0.0000000000	0.0000000000
47	MQA1C06	6358.4297900900	-79.0729469436	100.0220000000	-302.5340121547	176.7999900000	0.0000000000	0.0000000000
48	D4010	6358.9947900900	-79.0414076949	100.0220000000	-303.0981311810	176.7999900000	0.0000000000	0.0000000000
49	MBCLC06V	6358.9947901000	-79.0414076943	100.0220000000	-303.0981311910	176.7999900000	0.0000000000	0.0000000000
50	D4015	6363.2051401000	-78.8063788871	100.0220000000	-307.3019162214	176.7999900000	0.0000000000	0.0000000000
51	IPM1C07	6363.2051401000	-78.8063788871	100.0220000000	-307.3019162214	176.7999900000	0.0000000000	0.0000000000
52	D4005	6363.4297901000	-78.7938385468	100.0220000000	-307.5262159369	176.7999900000	0.0000000000	0.0000000000
53	MQA1C07	6363.7297901000	-78.7770920430	100.0220000000	-307.8257481633	176.7999900000	0.0000000000	0.0000000000
54	D4016	6363.8256901000	-78.7717387440	100.0220000000	-307.9214986316	176.7999900000	0.0000000000	0.0000000000
55	MBCLC07H	6363.8256901100	-78.7717387434	100.0220000000	-307.9214986416	176.7999900000	0.0000000000	0.0000000000
56	D4017	6363.8756901100	-78.7689476595	100.0220000000	-307.9714206793	176.7999900000	0.0000000000	0.0000000000
57	MBCLC07V	6363.8756901200	-78.7689476589	100.0220000000	-307.9714206893	176.7999900000	0.0000000000	0.0000000000
58	D4018	6364.6756901200	-78.7242903155	100.0220000000	-308.7701732928	176.7999900000	0.0000000000	0.0000000000
59	AMAZ1C07	6364.6756901300	-78.7242903149	100.0220000000	-308.7701733028	176.7999900000	0.0000000000	0.0000000000
60	D4019	6364.8756901300	-78.7131259791	100.0220000000	-308.9698614537	176.7999900000	0.0000000000	0.0000000000
61	IHALC07A	6364.8756901300	-78.7131259791	100.0220000000	-308.9698614537	176.7999900000	0.0000000000	0.0000000000
62	D4019	6365.0756901300	-78.7019616432	100.0220000000	-309.1695496046	176.7999900000	0.0000000000	0.0000000000
63	AMAZ1C07	6365.0756901400	-78.7019616427	100.0220000000	-309.1695496146	176.7999900000	0.0000000000	0.0000000000
64	D4020	6368.3051401400	-78.5216883206	100.0220000000	-312.3939641090	176.7999900000	0.0000000000	0.0000000000
65	IHALC07B	6368.3051401400	-78.5216883206	100.0220000000	-312.3939641090	176.7999900000	0.0000000000	0.0000000000
66	D4013	6369.3051401400	-78.4658666414	100.0220000000	-313.3924048635	176.7999900000	0.0000000000	0.0000000000

67	IPMIC08	6369.3051401400	-78.4658666414	100.0220000000	-313.3924048635	176.7999900000	0.0000000000	0.0000000000
68	D4005	6369.5297901400	-78.4533263011	100.0220000000	-313.6167045789	176.7999900000	0.0000000000	0.0000000000
69	MQAIC08	6369.8297901400	-78.4365797973	100.0220000000	-313.9162368053	176.7999900000	0.0000000000	0.0000000000
70	D4021	6370.0229401400	-78.4257978400	100.0220000000	-314.1090856370	176.7999900000	0.0000000000	0.0000000000
71	MBCIC08H	6370.0229401500	-78.4257978394	100.0220000000	-314.1090856470	176.7999900000	0.0000000000	0.0000000000
72	D4022	6370.1747901500	-78.4173213174	100.0220000000	-314.2606988755	176.7999900000	0.0000000000	0.0000000000
73	MSAIC08	6370.3247901500	-78.4089480656	100.0220000000	-314.4104649887	176.7999900000	0.0000000000	0.0000000000
74	D4023	6370.9297901500	-78.3751759496	100.0220000000	-315.0145216451	176.7999900000	0.0000000000	0.0000000000
75	MBAIC05	6373.9297901500	-78.0958482397	100.0220000000	-318.0007863815	172.5125000000	0.0000000000	0.0000000000
76	D4018	6374.7297901500	-77.9916003281	100.0220000000	-318.7939650329	172.5125000000	0.0000000000	0.0000000000
77	MQAIC09	6375.0297901500	-77.9525073613	100.0220000000	-319.0914070271	172.5125000000	0.0000000000	0.0000000000
78	D4021	6375.2229401500	-77.9273380062	100.0220000000	-319.2829100978	172.5125000000	0.0000000000	0.0000000000
79	MBCIC09V	6375.2229401600	-77.9273380049	100.0220000000	-319.2829101077	172.5125000000	0.0000000000	0.0000000000
80	D4022	6375.3747901600	-77.9075504482	100.0220000000	-319.4834653304	172.5125000000	0.0000000000	0.0000000000
81	MSAIC09	6375.5247901600	-77.8880039648	100.0220000000	-319.5821863276	172.5125000000	0.0000000000	0.0000000000
82	D4023	6376.1297901600	-77.8091664817	100.0220000000	-320.1820276826	172.5125000000	0.0000000000	0.0000000000
83	MBAIC06	6379.1297901600	-77.3073643409	100.0220000000	-323.1390524808	168.2250100000	0.0000000000	0.0000000000
84	D4024	6379.7051401600	-77.1899533855	100.0220000000	-323.7022951373	168.2250100000	0.0000000000	0.0000000000
85	IPMIC10	6379.7051401600	-77.1899533855	100.0220000000	-323.7022951373	168.2250100000	0.0000000000	0.0000000000
86	D4005	6379.9297901600	-77.1441093408	100.0220000000	-323.9222177283	168.2250100000	0.0000000000	0.0000000000
87	MQAIC10	6380.2297901600	-77.0828887158	100.0220000000	-324.2159046962	168.2250100000	0.0000000000	0.0000000000
88	D4021	6380.4229401600	-77.0434728367	100.0220000000	-324.4049901556	168.2250100000	0.0000000000	0.0000000000
89	MBCIC10H	6380.4229401700	-77.0434728347	100.0220000000	-324.4049901654	168.2250100000	0.0000000000	0.0000000000
90	D4022	6380.5747901700	-77.0124849950	100.0220000000	-324.5536447190	168.2250100000	0.0000000000	0.0000000000
91	MSAIC10	6380.7247901700	-76.9818746825	100.0220000000	-324.7004882029	168.2250100000	0.0000000000	0.0000000000
92	D4023	6381.3297901700	-76.8584130887	100.0220000000	-325.2927569213	168.2250100000	0.0000000000	0.0000000000
93	MBAIC07	6384.3297901700	-76.1369451231	100.0220000000	-328.2039911991	163.9375200000	0.0000000000	0.0000000000
94	D4024	6384.9051401700	-75.9777541609	100.0220000000	-328.7568798498	163.9375200000	0.0000000000	0.0000000000
95	IPMIC11	6384.9051401700	-75.9777541609	100.0220000000	-328.7568798498	163.9375200000	0.0000000000	0.0000000000
96	D4005	6385.1297901700	-75.9155967791	100.0220000000	-328.9727596367	163.9375200000	0.0000000000	0.0000000000
97	MQAIC11	6385.4297901700	-75.8325911501	100.0220000000	-329.2610478008	163.9375200000	0.0000000000	0.0000000000
98	D4021	6385.6229401700	-75.7791493592	100.0220000000	-329.4466573304	163.9375200000	0.0000000000	0.0000000000
99	MBCIC11V	6385.6229401800	-75.7791493565	100.0220000000	-329.4466573400	163.9375200000	0.0000000000	0.0000000000
100	D4022	6385.7747901800	-75.7371346739	100.0220000000	-329.5925791991	163.9375200000	0.0000000000	0.0000000000
101	MSAIC11	6385.9247901800	-75.6956318594	100.0220000000	-329.7367232811	163.9375200000	0.0000000000	0.0000000000
102	D4023	6386.5297901800	-75.5282371743	100.0220000000	-330.3181044120	163.9375200000	0.0000000000	0.0000000000
103	MBAIC08	6389.5297901800	-74.5911414679	100.0220000000	-333.1672538785	159.6500300000	0.0000000000	0.0000000000
104	D4025	6389.7957901800	-74.4986390393	100.0220000000	-333.4166517548	159.6500300000	0.0000000000	0.0000000000
105	IHALC12	6389.7957901800	-74.4986390393	100.0220000000	-333.4166517548	159.6500300000	0.0000000000	0.0000000000
106	D4026	6390.1051401800	-74.3910614969	100.0220000000	-333.7066939843	159.6500300000	0.0000000000	0.0000000000
107	IPMIC12	6390.1051401800	-74.3910614969	100.0220000000	-333.7066939843	159.6500300000	0.0000000000	0.0000000000
108	D4005	6390.3297901800	-74.3129386751	100.0220000000	-333.9173226794	159.6500300000	0.0000000000	0.0000000000
109	MQAIC12	6390.6297901800	-74.2086126279	100.0220000000	-334.1985984798	159.6500300000	0.0000000000	0.0000000000
110	D4021	6390.8229401800	-74.1414440411	100.0220000000	-334.3796932159	159.6500300000	0.0000000000	0.0000000000
111	MBCIC12H	6390.8229401900	-74.1414440376	100.0220000000	-334.3796932253	159.6500300000	0.0000000000	0.0000000000
112	D4027	6391.1229401900	-74.0371179903	100.0220000000	-334.6609690256	159.6500300000	0.0000000000	0.0000000000
113	OTRIC12	6391.1229401900	-74.0371179903	100.0220000000	-334.6609690256	159.6500300000	0.0000000000	0.0000000000
114	D4028	6391.7297901900	-73.8260837843	100.0220000000	-335.2299430904	159.6500300000	0.0000000000	0.0000000000
115	MBAIC09	6394.7297901900	-72.6786052982	100.0220000000	-338.0010609459	155.3625400000	0.0000000000	0.0000000000
116	D4018	6395.5297901900	-72.3451051685	100.0220000000	-338.7282319461	155.3625400000	0.0000000000	0.0000000000
117	MQAIC13	6395.8297901900	-72.2200426198	100.0220000000	-339.0009210712	155.3625400000	0.0000000000	0.0000000000
118	D4021	6396.0229401900	-72.1395231823	100.0220000000	-339.1764874195	155.3625400000	0.0000000000	0.0000000000
119	MBCIC13V	6396.0229402000	-72.1395231781	100.0220000000	-339.1764874286	155.3625400000	0.0000000000	0.0000000000
120	D4022	6396.1747902000	-72.0762206847	100.0220000000	-339.3145135741	155.3625400000	0.0000000000	0.0000000000
121	MSAIC13	6396.3247902000	-72.0136894104	100.0220000000	-339.4508581366	155.3625400000	0.0000000000	0.0000000000
122	D4023	6396.9297902000	-71.7614799373	100.0220000000	-340.0007812055	155.3625400000	0.0000000000	0.0000000000
123	MBAIC10	6399.9297902000	-70.4100411528	100.0220000000	-342.6783573962	151.0750500000	0.0000000000	0.0000000000
124	D4024	6400.5051402000	-70.1317653196	100.0220000000	-343.1819347817	151.0750500000	0.0000000000	0.0000000000
125	IPMIC14	6400.5051402000	-70.1317653196	100.0220000000	-343.1819347817	151.0750500000	0.0000000000	0.0000000000
126	D4005	6400.7297902000	-70.0231102993	100.0220000000	-343.3785605914	151.0750500000	0.0000000000	0.0000000000
127	MQAIC14	6401.0297902000	-69.8780112292	100.0220000000	-343.6411367896	151.0750500000	0.0000000000	0.0000000000
128	D4021	6401.2229402000	-69.7845916112	100.0220000000	-343.8101920986	151.0750500000	0.0000000000	0.0000000000
129	MBCIC12H	6401.2229402100	-69.7845916064	100.0220000000	-343.8101921073	151.0750500000	0.0000000000	0.0000000000
130	D4022	6401.3747902100	-69.7111472938	100.0220000000	-343.9430994263	151.0750500000	0.0000000000	0.0000000000
131	MSAIC14	6401.5247902100	-69.6385977587	100.0220000000	-344.0743875254	151.0750500000	0.0000000000	0.0000000000
132	D4023	6402.1297902100	-69.3459813008	100.0220000000	-344.6039161918	151.0750500000	0.0000000000	0.0000000000
133	MBAIC11	6405.1297902100	-67.7981462730	100.0220000000	-347.1729642202	146.7875600000	0.0000000000	0.0000000000
134	D4018	6405.9297902100	-67.3599503626	100.0220000000	-347.8422805461	146.7875600000	0.0000000000	0.0000000000
135	MQAIC15	6406.2297902100	-67.1956268962	100.0220000000	-348.0932741683	146.7875600000	0.0000000000	0.0000000000
136	D4021	6406.4229402100	-67.0898299711	100.0220000000	-348.2548722288	146.7875600000	0.0000000000	0.0000000000
137	MBCIC15V	6406.4229402200	-67.0898299656	100.0220000000	-348.2548722371	146.7875600000	0.0000000000	0.0000000000
138	D4022	6406.5747902200	-67.0066549044	100.0220000000	-348.3819168423	146.7875600000	0.0000000000	0.0000000000
139	MSAIC15	6406.7247902200	-66.9244931712	100.0220000000	-348.5074136534	146.7875600000	0.0000000000	0.0000000000
140	D4023	6407.3297902200	-66.5931075140	100.0220000000	-349.0135841248	146.7875600000	0.0000000000	0.0000000000
141	MBAIC12	6410.3297902200	-64.8575395355	100.0220000000	-351.4597249298	142.5000700000	0.0000000000	0.0000000000
142	D4024	6410.9051402200	-64.5072892050	100.0220000000	-351.9161812020	142.5000700000	0.0000000000	0.0000000000
143	IPMIC16	6410.9051402200	-64.5072892050	100.0220000000	-351.9161812020	142.5000700000	0.0000000000	0.0000000000
144	D4005	6411.1297902200	-64.3705311677	100.0220000000	-352.0944081970	142.5000700000	0.0000000000	0.0000000000
145	MQAIC16	6411.4297902200	-64.1879030298	100.0220000000	-352.3324144222	142.5000700000	0.0000000000	0.0000000000
146	D4021	6411.6229402200	-64.0703209470	100.0220000000	-352.4856507635	142.5000700000	0.0000000000	0.0000000000
147	MBCIC16H	6411.6229402300	-64.0703209409	100.0220000000	-352.4856507715	142.5000700000	0.0000000000	0.0000000000
148	D4029	6413.3187902300	-63.0379545153	100.0				

171	MBC1C20H	6420.8727902600	-58.4393779841	100.0220000000	-359.8240570695	142.5000700000	0.0000000000	0.0000000000
172	D4032	6421.0687902600	-58.3200609340	100.0220000000	-359.9795544699	142.5000700000	0.0000000000	0.0000000000
173	MBC1C20V	6421.0687902700	-58.3200609279	100.0220000000	-359.9795544779	142.5000700000	0.0000000000	0.0000000000
174	D4034	6421.6061902700	-57.9929130568	100.0220000000	-360.4059029626	142.5000700000	0.0000000000	0.0000000000
175	MMCLP01	6422.6063202700	-57.3843943721	99.9938832736	-361.1989419585	142.5000700000	-3.2223700000	0.0000000000
176	D4035	6423.9050702700	-56.5950167914	99.9208788190	-362.2276814528	142.5000700000	-3.2223700000	0.0000000000
177	MBT1P01H	6423.9050702800	-56.5950167853	99.9208788185	-362.2276814608	142.5000700000	-3.2223700000	0.0000000000
178	D4036	6422.6407802800	-54.7053668971	99.7461172559	-364.6903273704	142.5000700000	-3.2223700000	0.0000000000
179	MMCLP02	6428.1042102800	-54.0968482124	99.7180005295	-365.4833663663	142.5000700000	0.0000000000	0.0000000000
180	D4037	6428.3002102800	-53.9227427209	99.7180005295	-365.7102656344	142.5000700000	0.0000000000	0.0000000000
181	IPMLP02A	6428.3002102800	-53.9227427209	99.7180005295	-365.7102656344	142.5000700000	0.0000000000	0.0000000000
182	D4038A	6429.1202102800	-53.4235591439	99.7180005295	-366.3608159833	142.5000700000	0.0000000000	0.0000000000
183	D4038B	6429.9372102800	-52.9262018483	99.7180005295	-367.0089862699	142.5000700000	0.0000000000	0.0000000000
184	IPMLP02B	6429.9372102800	-52.9262018483	99.7180005295	-367.0089862699	142.5000700000	0.0000000000	0.0000000000
185	D4039	6430.3142102800	-52.6966991550	99.7180005295	-367.3080807596	142.5000700000	0.0000000000	0.0000000000
186	MMCLP03	6431.3143402800	-52.0881804703	99.7461172559	-368.1011197555	142.5000700000	3.2223700000	0.0000000000
187	D4040	6432.2203732800	-51.5374954750	99.7970465687	-368.8187882292	142.5000700000	3.2223700000	0.0000000000
188	IPMLP03A	6432.2203732800	-51.5374954750	99.7970465687	-368.8187882292	142.5000700000	3.2223700000	0.0000000000
189	D4041	6432.6407382800	-51.2819984920	99.8206758411	-369.1517592225	142.5000700000	3.2223700000	0.0000000000
190	MBT1P04H	6432.6407382900	-51.2819984859	99.8206758417	-369.1517592304	142.5000700000	3.2223700000	0.0000000000
191	D4042	6435.7220982900	-49.4091542109	99.9938831612	-371.5925035832	142.5000700000	3.2223700000	0.0000000000
192	MMCLP04	6436.7222282900	-48.8006355262	100.0219998876	-372.3855425791	142.5000700000	0.0000000000	0.0000000000
193	D4043	6439.2458282900	-47.2643676300	100.0219998876	-374.3876509456	142.5000700000	0.0000000000	0.0000000000
194	AXRAST	6439.7458282900	-46.9599874001	100.0219998876	-374.7843279876	142.5000700000	0.0000000000	0.0000000000
195	AYRAST	6440.2458282900	-46.6556071702	100.0219998876	-375.1810050296	142.5000700000	0.0000000000	0.0000000000
196	D4044	6443.8078282900	-44.4872024126	100.0219998876	-378.0069322769	142.5000700000	0.0000000000	0.0000000000
197	ITV1H01	6443.8078282900	-44.4872024126	100.0219998876	-378.0069322769	142.5000700000	0.0000000000	0.0000000000
198	D4045	6444.0958282900	-44.3118794002	100.0219998876	-378.2354182531	142.5000700000	0.0000000000	0.0000000000
199	IPMLH01	6444.0958282900	-44.3118794002	100.0219998876	-378.2354182531	142.5000700000	0.0000000000	0.0000000000
200	D4019	6444.2958282900	-44.1901273082	100.0219998876	-378.3940890700	142.5000700000	0.0000000000	0.0000000000
201	MQALH01	6444.5958282900	-44.0074991703	100.0219998876	-378.6320952952	142.5000700000	0.0000000000	0.0000000000
202	D4031	6444.7888282900	-43.8900084016	100.0219998876	-378.7852126334	142.5000700000	0.0000000000	0.0000000000
203	MAT1H01H	6444.7888283000	-43.8900083955	100.0219998876	-378.7852126413	142.5000700000	0.0000000000	0.0000000000
204	D4032	6444.9848283000	-43.7706913454	100.0219998876	-378.9407100418	142.5000700000	0.0000000000	0.0000000000
205	MAT1H01V	6444.9848283100	-43.7706913393	100.0219998876	-378.9407100497	142.5000700000	0.0000000000	0.0000000000
206	D4046	6445.2458283100	-43.6118048593	100.0219998876	-379.1477754657	142.5000700000	0.0000000000	0.0000000000
207	MOELTARG	6445.2458283100	-43.6118048593	100.0219998876	-379.1477754657	142.5000700000	0.0000000000	0.0000000000
208	D4047	6446.0205783100	-43.1401676931	100.0219998876	-379.7624265423	142.5000700000	0.0000000000	0.0000000000
209	MQMLH02	6446.4710783100	-42.8659211060	100.0219998876	-380.1198325571	142.5000700000	0.0000000000	0.0000000000
210	D4048	6447.1497283100	-42.4527858200	100.0219998876	-380.6582423062	142.5000700000	0.0000000000	0.0000000000
211	MQOLH03	6447.5119283100	-42.2322927815	100.0219998876	-380.9455951555	142.5000700000	0.0000000000	0.0000000000
212	D4049	6447.8067283100	-42.0528301980	100.0219998876	-381.1794759395	142.5000700000	0.0000000000	0.0000000000
213	MQOLH03A	6448.1689283100	-41.8323371594	100.0219998876	-381.4668287887	142.5000700000	0.0000000000	0.0000000000
214	D4050	6448.6648283100	-41.5304528474	100.0219998876	-381.8602530790	142.5000700000	0.0000000000	0.0000000000
215	MMALH01	6450.2828283100	-40.5454784236	100.0219998876	-383.1438999869	142.5000700000	0.0000000000	0.0000000000
216	D4051	6453.2347083100	-38.7484905977	100.0219998876	-385.4857860405	142.5000700000	0.0000000000	0.0000000000
217	MQALH04	6453.5347083100	-38.5658624597	100.0219998876	-385.7237922657	142.5000700000	0.0000000000	0.0000000000
218	D4052	6453.7025783100	-38.4636698414	100.0219998876	-385.8569726158	142.5000700000	0.0000000000	0.0000000000
219	MCZ1H04H	6453.7025783200	-38.4636698353	100.0219998876	-385.8569726237	142.5000700000	0.0000000000	0.0000000000
220	D4017	6453.7525783200	-38.4332318123	100.0219998876	-385.8966403279	142.5000700000	0.0000000000	0.0000000000
221	MCZ1H04V	6453.7525783300	-38.4332318062	100.0219998876	-385.8966403359	142.5000700000	0.0000000000	0.0000000000
222	D4052	6453.9204483300	-38.3310391878	100.0219998876	-386.0298206860	142.5000700000	0.0000000000	0.0000000000
223	MQALH04A	6454.2204483300	-38.1484110499	100.0219998876	-386.2678269112	142.5000700000	0.0000000000	0.0000000000
224	D4053	6454.6002283300	-37.9172160025	100.0219998876	-386.5691269252	142.5000700000	0.0000000000	0.0000000000
225	MBD1H04H	6454.6002283400	-37.9172159964	100.0219998876	-386.5691269331	142.5000700000	0.0000000000	0.0000000000
226	D4054	6455.1392283400	-37.5890941086	100.0219998876	-386.9967447844	142.5000700000	0.0000000000	0.0000000000
227	IPMLH04A	6455.1392283400	-37.5890941086	100.0219998876	-386.9967447844	142.5000700000	0.0000000000	0.0000000000
228	IHALH04A	6455.1392283400	-37.5890941086	100.0219998876	-386.9967447844	142.5000700000	0.0000000000	0.0000000000
229	D4055	6461.3762283400	-33.7922551212	100.0219998876	-391.9448942065	142.5000700000	0.0000000000	0.0000000000
230	IPMLH04B	6461.3762283400	-33.7922551212	100.0219998876	-391.9448942065	142.5000700000	0.0000000000	0.0000000000
231	IHALH04B	6461.3762283400	-33.7922551212	100.0219998876	-391.9448942065	142.5000700000	0.0000000000	0.0000000000
232	D4056	6462.7462283400	-32.9582532913	100.0219998876	-393.0317893017	142.5000700000	0.0000000000	0.0000000000
233	TARGET	6462.7462283400	-32.9582532913	100.0219998876	-393.0317893017	142.5000700000	0.0000000000	0.0000000000
234	D4057	6512.7462283400	-2.5202303041	100.0219998876	-432.6994935033	142.5000700000	0.0000000000	0.0000000000

1

STOP

hallb_5_electron.outd

LDIMAT VERSION 2.9 PROD
ODATE AND TIME OF THIS RUN: 12-JUN-2007 13:00:13

XSIF Parser Version 2.1
Version Date: 01-JAN-2004
Run: 12-JUN-2007 13:00:13
XSIF Parser developed by NLC Department,
Stanford Linear Accelerator Center.

UTRANSPORT

TITLE
CONVERTED FROM ../.././OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//HALLB_5_ELECTRON.OP

5
D4000: DRIFT, L=0.44539
ITV2C00: MONITOR, L=0
D4001: DRIFT, L=0.3545
10
MLA2C02: SBEND, L=2.3, ANGLE=0, K1=0, &
E1=0, E2=0, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=0
D4002: DRIFT, L=1.5172
MBD2C00V: GKICK, L=1E-08, DXP=0, DYP=0
15
D4003A: DRIFT, L=0.43277
IPM2C00: MONITOR, L=0
D4003B: DRIFT, L=2.744
MBD2C00H: GKICK, L=1E-08, DXP=0, DYP=0
D4004: DRIFT, L=11.3542
20
MBC2C01H: GKICK, L=1E-08, DXP=0, DYP=0

D4005: DRIFT, L=0.19315
IPM2C01: MONITOR, L=0
D4006: DRIFT, L=0.22465
MQA2C01: QUADRUPOLE, L=0.3, K1=-0.195966, TILT=0
25 MBC2C01V: GKICK, L=0, DXP=0, DYP=0
D4007: DRIFT, L=4.5822
IPM2C02: MONITOR, L=0
MQA2C02: QUADRUPOLE, L=0.3, K1=0.412498, TILT=0
MBC2C02H: GKICK, L=1E-08, DXP=0, DYP=0
30 IPM2C03: MONITOR, L=0
MQA2C03: QUADRUPOLE, L=0.3, K1=-0.699301, TILT=0
D4008: DRIFT, L=0.38924
MBC2C03V: GKICK, L=1E-08, DXP=0, DYP=0
D4009: DRIFT, L=4.38611
35 IPM2C04: MONITOR, L=0
MQA2C04: QUADRUPOLE, L=0.3, K1=0.486496, TILT=0
MBC2C04H: GKICK, L=1E-08, DXP=0, DYP=0
D4010: DRIFT, L=7.8276
IPM2C05: MONITOR, L=0
40 D4011: DRIFT, L=0.19925
MQA2C05: QUADRUPOLE, L=0.3, K1=-1.27698, TILT=0
MBC2C05V: GKICK, L=1E-08, DXP=0, DYP=0
D4012: DRIFT, L=0.15182
MSA2C05: SEXTUPOLE, L=0.15, K2=-0.619986
45 D4013: DRIFT, L=0.76503
MBE2C01: SBEND, L=1, ANGLE=1.7027, K1=-2.60212, &
E1=0.853071, E2=0.853071, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=90
50 D4014: DRIFT, L=0.96
MQA2C06: QUADRUPOLE, L=0.3, K1=1.38326, TILT=0
MBC2C06H: GKICK, L=1E-08, DXP=0, DYP=0
MSA2C06: SEXTUPOLE, L=0.15, K2=1.08373
D4015: DRIFT, L=2.52578
55 IPM2C07: MONITOR, L=0
MQA2C07: QUADRUPOLE, L=0.3, K1=-1.37664, TILT=0
MBC2C07V: GKICK, L=1E-08, DXP=0, DYP=0
MSA2C07: SEXTUPOLE, L=0.15, K2=-0.619986
MBE2C03: SBEND, L=1, ANGLE=1.7027, K1=-2.60212, &
60 E1=0.853071, E2=0.853071, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=90
MQA2C08: QUADRUPOLE, L=0.3, K1=1.38326, TILT=0
MBC2C08H: GKICK, L=1E-08, DXP=0, DYP=0
65 MSA2C08: SEXTUPOLE, L=0.15, K2=1.08373
IPM2C09: MONITOR, L=0
MQA2C09: QUADRUPOLE, L=0.3, K1=-1.37664, TILT=0
MBC2C09V: GKICK, L=1E-08, DXP=0, DYP=0
MSA2C09: SEXTUPOLE, L=0.15, K2=-0.619986
70 D4013A: DRIFT, L=0.3909
IHA2C09: MONITOR, L=0
D4013B: DRIFT, L=0.37413
MBE2C05: SBEND, L=1, ANGLE=1.7027, K1=-2.60212, &
E1=0.853071, E2=0.853071, HGAP=0, &
75 HGAPX=0, &
FINT=0.5, TILT=90
MQA2C10: QUADRUPOLE, L=0.3, K1=1.38326, TILT=0
MBC2C10H: GKICK, L=1E-08, DXP=0, DYP=0
MSA2C10: SEXTUPOLE, L=0.15, K2=1.08373
80 IPM2C11: MONITOR, L=0
MQA2C11: QUADRUPOLE, L=0.3, K1=-1.37664, TILT=0
MBC2C11V: GKICK, L=1E-08, DXP=0, DYP=0
MSA2C11: SEXTUPOLE, L=0.15, K2=-0.619986
MBE2C07: SBEND, L=1, ANGLE=1.7027, K1=-2.60212, &
85 E1=0.853071, E2=0.853071, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=90
MQA2C12: QUADRUPOLE, L=0.3, K1=1.38326, TILT=0
MBC2C12H: GKICK, L=1E-08, DXP=0, DYP=0
90 MSA2C12: SEXTUPOLE, L=0.15, K2=1.08373
IPM2C13: MONITOR, L=0
MQA2C13: QUADRUPOLE, L=0.3, K1=-1.37664, TILT=0
MBC2C13V: GKICK, L=1E-08, DXP=0, DYP=0
MSA2C13: SEXTUPOLE, L=0.15, K2=1.08373
95 MBE2C09: SBEND, L=1, ANGLE=-1.7027, K1=-2.60212, &
E1=-0.853071, E2=-0.853071, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=90
MQA2C14: QUADRUPOLE, L=0.3, K1=1.38326, TILT=0
100 MBC2C14H: GKICK, L=1E-08, DXP=0, DYP=0
MSA2C14: SEXTUPOLE, L=0.15, K2=1.08373
IPM2C15: MONITOR, L=0
MQA2C15: QUADRUPOLE, L=0.3, K1=-1.37664, TILT=0
MBC2C15V: GKICK, L=1E-08, DXP=0, DYP=0
105 MSA2C15: SEXTUPOLE, L=0.15, K2=-0.619986
MBE2C11: SBEND, L=1, ANGLE=-1.7027, K1=-2.60212, &
E1=-0.853071, E2=-0.853071, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=90
110 MQA2C16: QUADRUPOLE, L=0.3, K1=1.38326, TILT=0
MBC2C16H: GKICK, L=1E-08, DXP=0, DYP=0
MSA2C16: SEXTUPOLE, L=0.15, K2=1.08373
IPM2C17: MONITOR, L=0
MQA2C17: QUADRUPOLE, L=0.3, K1=-1.37664, TILT=0
115 MBC2C17V: GKICK, L=0, DXP=0, DYP=0
MSA2C17: SEXTUPOLE, L=0.15, K2=-0.619986
MBE2C13: SBEND, L=1, ANGLE=-1.7027, K1=-2.60212, &
E1=-0.853071, E2=-0.853071, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=90
120 MQA2C18: QUADRUPOLE, L=0.3, K1=1.38326, TILT=0
MBC2C18H: GKICK, L=1E-08, DXP=0, DYP=0
MSA2C18: SEXTUPOLE, L=0.15, K2=1.08373
IPM2C19: MONITOR, L=0

125 MQA2C19: QUADRUPOLE, L=0.3, K1=-1.37664, TILT=0
MBC2C19V: GKICK, L=1E-08, DXP=0, DYP=0
MSA2C19: SEXTUPOLE, L=0.15, K2=-0.619986
IHA2C19: MONITOR, L=0
MBE2C15: SBEND, L=1, ANGLE=-1.7027, K1=-2.60212, &
130 E1=-0.853071, E2=-0.853071, HGAP=0, &
HGAPX=0, &
FINT=0.5, TILT=90
MQA2C20: QUADRUPOLE, L=0.3, K1=1.21761, TILT=0
MBC2C20H: GKICK, L=1E-08, DXP=0, DYP=0
135 MSA2C20: SEXTUPOLE, L=0.15, K2=1.08373
D4016: DRIFT, L=2.19038
IPM2C21: MONITOR, L=0
D4017: DRIFT, L=0.22434
MQA2C21: QUADRUPOLE, L=0.3, K1=-0.524982, TILT=0
140 D4018: DRIFT, L=0.19
MBC2C21H: GKICK, L=1E-08, DXP=0, DYP=0
D4019: DRIFT, L=0.245
MBC2C21V: GKICK, L=1E-08, DXP=7.53775E-31, DYP=2.84059E-14
D4107: DRIFT, L=0.4922
145 D4109: DRIFT, L=0.2
MQA2C21A: QUADRUPOLE, L=0.3, K1=-0.0240151, TILT=0
D4110: DRIFT, L=0.2
MBC2C21AH: GKICK, L=1E-08, DXP=0, DYP=-0
TVBV: MONITOR, L=0.305
150 DHARP: MONITOR, L=0.15
IHA2C21: MONITOR, L=0
D4108: DRIFT, L=0.0328
D4021: DRIFT, L=0.115
IPM2C21A: MONITOR, L=0.9
155 GON: MONITOR, L=0.7
D4105: DRIFT, L=0.3
MOLLTARG: MONITOR, L=0.5
D4106: DRIFT, L=0.9
MQE2M01: QUADRUPOLE, L=1, K1=0, TILT=0
160 D4023: DRIFT, L=1
MQE2M02: QUADRUPOLE, L=1, K1=0, TILT=0
D4024: DRIFT, L=5.3805
IPM2C22: MONITOR, L=0
D4025: DRIFT, L=0.2
165 MQA2C22: QUADRUPOLE, L=0.3, K1=-0.490922, TILT=0
MBC2C22H: GKICK, L=1E-08, DXP=0, DYP=0
D4026: DRIFT, L=0.25148
MQA2C23: QUADRUPOLE, L=0.3, K1=1.35673, TILT=0
D4027: DRIFT, L=0.14
170 MBC2C23V: GKICK, L=0.1, DXP=-7.53775E-24, DYP=-2.84059E-07
D4028: DRIFT, L=0.32818
MQA2C24: QUADRUPOLE, L=0.3, K1=-0.861338, TILT=0
D4029: DRIFT, L=0.21
IPM2C24A: MONITOR, L=0
175 D4030: DRIFT, L=2.4854
IHA2C24: MONITOR, L=0
D4031: DRIFT, L=4.40629
ATAGGER: GKICK, L=0, DXP=0, DYP=0
D4101: DRIFT, L=1.962
180 COLA: MONITOR, L=0.4
D4102: DRIFT, L=1.906
PH2H00: MONITOR, L=0
D4103: DRIFT, L=3.84
COLB: MONITOR, L=0.4
185 D4104: DRIFT, L=12.09
TARGET: MONITOR, L=0
D4034: DRIFT, L=9.01601
D4035: DRIFT, L=8.984

190 HALLB_5_ELECTRON: LINE=(D4000, &
ITV2C00, D4001, MSA2C02, D4002, MBD2C00V, &
D4003A, IPM2C00, D4003B, MBD2C00H, D4004, &
MBC2C01H, D4005, IPM2C01, D4006, MQA2C01, &
D4005, MBC2C01V, D4007, IPM2C02, D4006, &
195 MQA2C02, D4005, MBC2C02H, D4007, IPM2C03, &
D4006, MQA2C03, D4008, MBC2C03V, D4009, &
IPM2C04, D4006, MQA2C04, D4005, MBC2C04H, &
D4010, IPM2C05, D4011, MQA2C05, D4005, &
MBC2C05V, D4012, MSA2C05, D4013, MBE2C01, &
200 D4014, MQA2C06, D4005, MBC2C06H, D4012, &
MSA2C06, D4015, IPM2C07, D4011, MQA2C07, &
D4005, MBC2C07V, D4012, MSA2C07, D4013, &
MBE2C03, D4014, MQA2C08, D4005, MBC2C08H, &
D4012, MSA2C08, D4015, IPM2C09, D4011, &
205 MQA2C09, D4005, MBC2C09V, D4012, MSA2C09, &
D4013A, IHA2C09, D4013B, MBE2C05, D4014, &
MQA2C10, D4005, MBC2C10H, D4012, MSA2C10, &
D4015, IPM2C11, D4011, MQA2C11, D4005, &
MBC2C11V, D4012, MSA2C11, D4013, MBE2C07, &
210 D4014, MQA2C12, D4005, MBC2C12H, D4012, &
MSA2C12, D4015, IPM2C13, D4011, MQA2C13, &
D4005, MBC2C13V, D4012, MSA2C13, D4013, &
MBE2C09, D4014, MQA2C14, D4005, MBC2C14H, &
D4012, MSA2C14, D4015, IPM2C15, D4011, &
215 MQA2C15, D4005, MBC2C15V, D4012, MSA2C15, &
D4013, MBE2C11, D4014, MQA2C16, D4005, &
MBC2C16H, D4012, MSA2C16, D4015, IPM2C17, &
D4011, MQA2C17, D4005, MBC2C17V, D4012, &
MSA2C17, D4013, MBE2C13, D4014, MQA2C18, &
220 D4005, MBC2C18H, D4012, MSA2C18, D4015, &
IPM2C19, D4011, MQA2C19, D4005, MBC2C19V, &
D4012, MSA2C19, D4013A, IHA2C19, D4013B, &
MBE2C15, D4014, MQA2C20, D4005, MBC2C20H, &
D4012, MSA2C20, D4016, IPM2C21, D4017, &
225 MQA2C21, D4018, MBC2C21H, D4019, MBC2C21V, &
D4107, D4109, MQA2C21A, D4110, MBC2C21AH, &
TVBV, DHARP, IHA2C21, DHARP, D4108, &
D4021, IPM2C21A, GON, D4105, MOLLTARG, &

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230 D4106, MQE2M01, D4023, MQE2M02, D4024, &
      IPM2C22, D4025, MQA2C22, D4018, MBC2C22H, &
      D4026, MQA2C23, D4027, MBC2C23V, D4028, &
      MQA2C24, D4029, IPM2C24A, D4030, IHA2C24, &
      D4031, ATAGGER, D4101, COLA, D4102, &
235 PH2H00, D4103, COLB, D4104, TARGET, &
      D4034, D4035)
      USE, HALLB_5_ELECTRON
      DIMAT
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*****
* DIMAD PROGRAM : LAST MODIFIED ON May 27, 2005 *
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1
      CONVERTED FROM ../../OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//HALLB_5_ELECTRON.OP

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TOTAL LENGTH OF MACHINE IS: 162.165 METERS

IN THIS RUN THERE ARE :
156 DISTINCT ELEMENTS. ALLOCATED MXELMD : 157
223 ELEMENTS IN MACHINE. ALLOCATED MXPOS_D : 225
52 MATRICES DEFINED. ALLOCATED MAXMAT : 53
834 VALUES IN ELDAT. ALLOCATED MAXDAT : 834
0 LCAVs. ALLOCATED MX_LCAV : 1

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1
OPERATION LIST ,

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MACHINE

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1 2 1 0 1 1 1
20 0 0 0
20 0 0 0
0,

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ELEMENT	#	BETAX	ALPHAX	BETAY	ALPHAY	ETAX	ETAPX	ETAY	ETAPY	NUX	NUY	ACC.LEN
\$\$INITIAL\$\$	0	20.0000	0.0000	20.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.000
D4000	1	20.0099	-0.0223	20.0099	-0.0223	0.0000	0.0000	0.0000	0.0000	0.00354	0.00354	0.445
ITV2C00	2	20.0099	-0.0223	20.0099	-0.0223	0.0000	0.0000	0.0000	0.0000	0.00354	0.00354	0.445
D4001	3	20.0320	-0.0400	20.0320	-0.0400	0.0000	0.0000	0.0000	0.0000	0.00636	0.00636	0.800
MLA2C02	4	20.4805	-0.1550	20.4805	-0.1550	0.0000	0.0000	0.0000	0.0000	0.02447	0.02447	3.100
D4002	5	21.0659	-0.2309	21.0659	-0.2309	0.0000	0.0000	0.0000	0.0000	0.03611	0.03611	4.617
MBC2C00V	6	21.0659	-0.2309	21.0659	-0.2309	0.0000	0.0000	0.0000	0.0000	0.03611	0.03611	4.617
D4003A	7	21.2751	-0.2525	21.2751	-0.2525	0.0000	0.0000	0.0000	0.0000	0.03936	0.03936	5.050
IPM2C00	8	21.2751	-0.2525	21.2751	-0.2525	0.0000	0.0000	0.0000	0.0000	0.03936	0.03936	5.050
D4003B	9	23.0372	-0.3897	23.0372	-0.3897	0.0000	0.0000	0.0000	0.0000	0.05914	0.05914	7.794
MBC2C00H	10	23.0372	-0.3897	23.0372	-0.3897	0.0000	0.0000	0.0000	0.0000	0.05914	0.05914	7.794
D4004	11	38.3324	-0.9574	38.3324	-0.9574	0.0000	0.0000	0.0000	0.0000	0.12154	0.12154	19.148
MBC2C01H	12	38.3324	-0.9574	38.3324	-0.9574	0.0000	0.0000	0.0000	0.0000	0.12154	0.12154	19.148
D4005	13	38.7041	-0.9671	38.7041	-0.9671	0.0000	0.0000	0.0000	0.0000	0.12234	0.12234	19.341
IPM2C01	14	38.7041	-0.9671	38.7041	-0.9671	0.0000	0.0000	0.0000	0.0000	0.12234	0.12234	19.341
D4006	15	39.1411	-0.9783	39.1411	-0.9783	0.0000	0.0000	0.0000	0.0000	0.12325	0.12325	19.566
MQA2C01	16	40.4340	-3.3564	39.0394	1.3153	0.0000	0.0000	0.0000	0.0000	0.12446	0.12447	19.866
D4005	17	41.7419	-3.4150	38.5339	1.3018	0.0000	0.0000	0.0000	0.0000	0.12521	0.12526	20.059
MBC2C01V	18	41.7419	-3.4150	38.5339	1.3018	0.0000	0.0000	0.0000	0.0000	0.12521	0.12526	20.059
D4007	19	79.4078	-4.8050	28.0719	0.9814	0.0000	0.0000	0.0000	0.0000	0.13789	0.14751	24.641
IPM2C02	20	79.4078	-4.8050	28.0719	0.9814	0.0000	0.0000	0.0000	0.0000	0.13789	0.14751	24.641
D4006	21	81.5821	-4.8732	27.6344	0.9657	0.0000	0.0000	0.0000	0.0000	0.13833	0.14879	24.866
MQA2C02	22	81.4697	5.2431	28.0857	-2.4883	0.0000	0.0000	0.0000	0.0000	0.13891	0.15052	25.166
D4005	23	79.4573	5.1756	29.0564	-2.5377	0.0000	0.0000	0.0000	0.0000	0.13929	0.15159	25.359
MBC2C02H	24	79.4573	5.1756	29.0564	-2.5377	0.0000	0.0000	0.0000	0.0000	0.13929	0.15159	25.359
D4007	25	39.3688	3.5732	57.6893	-3.7110	0.0000	0.0000	0.0000	0.0000	0.15235	0.16944	29.941
IPM2C03	26	39.3688	3.5732	57.6893	-3.7110	0.0000	0.0000	0.0000	0.0000	0.15235	0.16944	29.941
D4006	27	37.7810	3.4946	59.3695	-3.7685	0.0000	0.0000	0.0000	0.0000	0.15328	0.17006	30.166
MQA2C03	28	38.0554	-4.4284	57.9007	8.5614	0.0000	0.0000	0.0000	0.0000	0.15455	0.17086	30.466
D4008	29	41.5849	-4.6393	51.4302	8.0620	0.0000	0.0000	0.0000	0.0000	0.15611	0.17200	30.855
MBC2C03V	30	41.5849	-4.6393	51.4302	8.0620	0.0000	0.0000	0.0000	0.0000	0.15611	0.17200	30.855
D4009	31	92.7009	-7.0148	5.3951	2.4337	0.0000	0.0000	0.0000	0.0000	0.16736	0.21440	35.241
IPM2C04	32	92.7009	-7.0148	5.3951	2.4337	0.0000	0.0000	0.0000	0.0000	0.16736	0.21440	35.241
D4006	33	95.8800	-7.1365	4.3664	2.1454	0.0000	0.0000	0.0000	0.0000	0.16774	0.22177	35.466
MQA2C04	34	95.9488	6.9103	3.3524	1.2837	0.0000	0.0000	0.0000	0.0000	0.16823	0.23436	35.766
D4005	35	93.2984	6.8121	2.8859	1.1312	0.0000	0.0000	0.0000	0.0000	0.16856	0.24425	35.959
MBC2C04H	36	93.2984	6.8121	2.8859	1.1312	0.0000	0.0000	0.0000	0.0000	0.16856	0.24425	35.959
D4010	37	17.7852	2.8349	33.5749	-5.0518	0.0000	0.0000	0.0000	0.0000	0.19933	0.59793	43.787
IPM2C05	38	17.7852	2.8349	33.5749	-5.0518	0.0000	0.0000	0.0000	0.0000	0.19933	0.59793	43.787
D4011	39	16.6756	2.7337	35.6194	-5.2092	0.0000	0.0000	0.0000	0.0000	0.20117	0.59885	43.986
MQA2C05	40	16.9454	-3.6671	34.6400	8.3476	0.0000	0.0000	0.0000	0.0000	0.20407	0.60018	44.286
D4005	41	18.3938	-3.8318	31.4915	7.9535	0.0000	0.0000	0.0000	0.0000	0.20581	0.60111	44.479
MBC2C05V	42	18.3938	-3.8318	31.4915	7.9535	0.0000	0.0000	0.0000	0.0000	0.20581	0.60111	44.479
D4012	43	19.5770	-3.9612	29.1235	7.6437	0.0000	0.0000	0.0000	0.0000	0.20708	0.60191	44.631
MSA2C05	44	20.7845	-4.0891	26.8763	7.3376	0.0000	0.0000	0.0000	0.0000	0.20827	0.60276	44.781
D4013	45	27.5401	-4.7414	16.8435	5.7766	0.0000	0.0000	0.0000	0.0000	0.21336	0.60848	45.546

MBE2C01	46	37.9253	-5.6472	7.3094	3.7516	0.0000	0.0000	0.0149	0.0297	0.21828	0.62284	46.546
D4014	47	49.5673	-6.4798	2.0069	1.7717	0.0000	0.0000	0.0434	0.0297	0.22181	0.66316	47.506
MQA2C06	48	47.2964	13.7328	1.3073	0.6564	0.0000	0.0000	0.0552	0.0500	0.22277	0.69344	47.806
D4005	49	42.1410	12.9585	1.0945	0.4450	0.0000	0.0000	0.0649	0.0500	0.22346	0.71925	47.999
MBC2C06H	50	42.1410	12.9585	1.0945	0.4450	0.0000	0.0000	0.0649	0.0500	0.22346	0.71925	47.999
D4012	51	38.2986	12.3500	0.9846	0.2788	0.0000	0.0000	0.0724	0.0500	0.22406	0.74261	48.151
MSA2C06	52	34.6838	11.7487	0.9256	0.1147	0.0000	0.0000	0.0799	0.0500	0.22472	0.76772	48.301
D4015	53	0.9074	1.6240	7.3294	-2.6500	0.0000	0.0000	0.2061	0.0500	0.29905	0.97846	50.827
IPM2C07	54	0.9074	1.6240	7.3294	-2.6500	0.0000	0.0000	0.2061	0.0500	0.29905	0.97846	50.827
D4011	55	0.4194	0.8253	8.4289	-2.8681	0.0000	0.0000	0.2160	0.0500	0.35139	0.98250	51.026
MQA2C07	56	0.3123	-0.4539	9.1037	0.7124	0.0000	0.0000	0.2175	-0.0405	0.51193	0.98784	51.326
D4005	57	0.6317	-1.1997	8.8347	0.6804	0.0000	0.0000	0.2097	-0.0405	0.58352	0.99126	51.519
MBC2C07V	58	0.6317	-1.1997	8.8347	0.6804	0.0000	0.0000	0.2097	-0.0405	0.58352	0.99126	51.519
D4012	59	1.0850	-1.7859	8.6319	0.6552	0.0000	0.0000	0.2035	-0.0405	0.61288	0.99403	51.671
MSA2C07	60	1.7076	-2.3650	8.4391	0.6304	0.0000	0.0000	0.1974	-0.0405	0.63045	0.99683	51.821
D4013	61	7.5861	-5.3190	7.5714	0.5037	0.0000	0.0000	0.1664	-0.0405	0.66454	1.01208	52.586
MBC2C03	62	22.1104	-9.2101	6.7137	0.3535	0.0000	0.0000	0.1406	-0.0111	0.67685	1.03447	53.586
D4014	63	43.3712	-12.9365	6.1895	0.1926	0.0000	0.0000	0.1299	-0.0111	0.68178	1.05826	54.546
MQA2C08	64	45.6608	5.6239	6.8828	-2.5990	0.0000	0.0000	0.1347	0.0432	0.68283	1.06573	54.846
D4005	65	43.5150	5.4859	7.9289	-2.8166	0.0000	0.0000	0.1430	0.0432	0.68352	1.06989	55.039
MBC2C08H	66	43.5150	5.4859	7.9289	-2.8166	0.0000	0.0000	0.1430	0.0432	0.68352	1.06989	55.039
D4012	67	41.8657	5.3774	8.8101	-2.9877	0.0000	0.0000	0.1496	0.0432	0.68409	1.07278	55.191
MSA2C08	68	40.2686	5.2702	9.7317	-3.1567	0.0000	0.0000	0.1561	0.0432	0.68467	1.07536	55.341
D4015	69	18.2046	3.4653	32.8655	-6.0024	0.0000	0.0000	0.2652	0.0432	0.69954	1.09791	57.867
IPM2C09	70	18.2046	3.4653	32.8655	-6.0024	0.0000	0.0000	0.2652	0.0432	0.69954	1.09791	57.867
D4011	71	16.8520	3.3230	35.3022	-6.2269	0.0000	0.0000	0.2738	0.0432	0.70135	1.09884	58.066
MQA2C09	72	16.9320	-3.6006	34.6384	8.3474	0.0000	0.0000	0.2698	-0.0702	0.70423	1.10018	58.366
D4005	73	18.3537	-3.7599	31.4899	7.9533	0.0000	0.0000	0.2562	-0.0702	0.70598	1.10111	58.559
MBC2C09V	74	18.3537	-3.7599	31.4899	7.9533	0.0000	0.0000	0.2562	-0.0702	0.70598	1.10111	58.559
D4012	75	19.5144	-3.8851	29.1220	7.6435	0.0000	0.0000	0.2455	-0.0702	0.70725	1.10191	58.711
MSA2C09	76	20.6985	-4.0088	26.8749	7.3374	0.0000	0.0000	0.2350	-0.0702	0.70844	1.10276	58.861
D4013A	77	23.9586	-4.3312	21.4502	6.5398	0.0000	0.0000	0.2076	-0.0702	0.71124	1.10536	59.252
IHA2C09	78	23.9586	-4.3312	21.4502	6.5398	0.0000	0.0000	0.2076	-0.0702	0.71124	1.10536	59.252
D4013B	79	27.3149	-4.6398	16.8424	5.7764	0.0000	0.0000	0.1813	-0.0702	0.71356	1.10849	59.626
MBC2C05	80	37.4686	-5.5172	7.3087	3.7514	0.0000	0.0000	0.1258	-0.0408	0.71854	1.12285	60.626
D4014	81	48.8348	-6.3227	2.0066	1.7715	0.0000	0.0000	0.0866	-0.0408	0.72211	1.16317	61.586
MQA2C10	82	46.5622	13.5808	1.3070	0.6563	0.0000	0.0000	0.0795	-0.0067	0.72309	1.19345	61.886
D4005	83	41.4646	12.8116	1.0943	0.4449	0.0000	0.0000	0.0782	-0.0067	0.72379	1.21927	62.079
MBC2C10H	84	41.4646	12.8116	1.0943	0.4449	0.0000	0.0000	0.0782	-0.0067	0.72379	1.21927	62.079
D4012	85	37.6662	12.2069	0.9845	0.2787	0.0000	0.0000	0.0772	-0.0067	0.72440	1.24263	62.231
MSA2C10	86	34.0938	11.6095	0.9255	0.1145	0.0000	0.0000	0.0762	-0.0067	0.72507	1.26775	62.381
D4015	87	0.8547	1.5504	7.3308	-2.6505	0.0000	0.0000	0.0591	-0.0067	0.80257	1.47847	64.907
IPM2C11	88	0.8547	1.5504	7.3308	-2.6505	0.0000	0.0000	0.0591	-0.0067	0.80257	1.47847	64.907
D4011	89	0.3949	0.7569	8.4304	-2.8686	0.0000	0.0000	0.0578	-0.0067	0.85828	1.48251	65.106
MQA2C11	90	0.3268	-0.5206	9.1053	0.7126	0.0000	0.0000	0.0523	-0.0297	1.02070	1.48785	65.406
D4005	91	0.6730	-1.2717	8.8363	0.6806	0.0000	0.0000	0.0465	-0.0297	1.08826	1.49128	65.599
MBC2C11V	92	0.6730	-1.2717	8.8363	0.6806	0.0000	0.0000	0.0465	-0.0297	1.08826	1.49128	65.599
D4012	93	1.1488	-1.8621	8.6334	0.6555	0.0000	0.0000	0.0420	-0.0297	1.11588	1.49404	65.751
MSA2C11	94	1.7949	-2.4454	8.4405	0.6306	0.0000	0.0000	0.0376	-0.0297	1.13253	1.49684	65.901
D4013	95	7.8126	-5.4205	7.5726	0.5039	0.0000	0.0000	0.0148	-0.0297	1.16528	1.51209	66.666
MBC2C07	96	22.5683	-9.3400	6.7144	0.3537	0.0000	0.0000	0.0000	0.0000	1.17728	1.53447	67.666
D4014	97	44.1041	-13.0933	6.1898	0.1928	0.0000	0.0000	0.0000	0.0000	1.18212	1.55826	68.626
MQA2C12	98	46.3951	5.7764	6.8831	-2.5989	0.0000	0.0000	0.0000	0.0000	1.18316	1.56573	68.926
D4005	99	44.1913	5.6333	7.9291	-2.8165	0.0000	0.0000	0.0000	0.0000	1.18384	1.56989	69.119
MBC2C12H	100	44.1913	5.6333	7.9291	-2.8165	0.0000	0.0000	0.0000	0.0000	1.18384	1.56989	69.119
D4012	101	42.4978	5.5209	8.8102	-2.9875	0.0000	0.0000	0.0000	0.0000	1.18439	1.57279	69.271
MSA2C12	102	40.8582	5.4098	9.7318	-3.1565	0.0000	0.0000	0.0000	0.0000	1.18497	1.57536	69.421
D4015	103	18.2562	3.5388	32.8641	-6.0020	0.0000	0.0000	0.0000	0.0000	1.19971	1.59792	71.947
IPM2C13	104	18.2562	3.5388	32.8641	-6.0020	0.0000	0.0000	0.0000	0.0000	1.19971	1.59792	71.947
D4011	105	16.8754	3.3912	35.3006	-6.2264	0.0000	0.0000	0.0000	0.0000	1.20151	1.59885	72.146
MQA2C13	106	16.9164	-3.5337	34.6368	8.3472	0.0000	0.0000	0.0000	0.0000	1.20440	1.60019	72.446
D4005	107	18.3112	-3.6877	31.4883	7.9531	0.0000	0.0000	0.0000	0.0000	1.20615	1.60112	72.639
MBC2C13V	108	18.3112	-3.6877	31.4883	7.9531	0.0000	0.0000	0.0000	0.0000	1.20615	1.60112	72.639
D4012	109	19.4494	-3.8087	29.1205	7.6433	0.0000	0.0000	0.0000	0.0000	1.20743	1.60191	72.791
MSA2C13	110	20.6099	-3.9283	26.8734	7.3372	0.0000	0.0000	0.0000	0.0000	1.20862	1.60277	72.941
D4013	111	27.0871	-4.5383	16.8413	5.7762	0.0000	0.0000	0.0000	0.0000	1.21377	1.60849	73.706
MBC2C09	112	37.0098	-5.3876	7.3079	3.7512	0.0000	0.0000	-0.0148	-0.0297	1.21880	1.62285	74.706
D4014	113	48.1016	-6.1664	2.0062	1.7713	0.0000	0.0000	-0.0434	-0.0297	1.22242	1.66318	75.666
MQA2C14	114	45.8280	13.4278	1.3068	0.6562	0.0000	0.0000	-0.0552	-0.0499	1.22342	1.69347	75.966
D4005	115	40.7885	12.6636	1.0941	0.4448	0.0000	0.0000	-0.0648	-0.0499	1.22413	1.71929	76.159
MBC2C14H	116	40.7885	12.6636	1.0941	0.4448	0.0000	0.0000	-0.0648	-0.0499	1.22413	1.71929	76.159
D4012	117	37.0345	12.0630	0.9843	0.2786	0.0000	0.0000	-0.0724	-0.0499	1.22475	1.74266	76.311
MSA2C14	118	33.5046	11.4696	0.9253	0.1143	0.0000	0.0000	-0.0799	-0.0499	1.22543	1.76778	76.461
D4015	119	0.8042	1.4771	7.3321	-2.6509	0.0000	0.0000	-0.2061	-0.0499	1.30631	1.97849	78.987
IPM2C15	120	0.8042	1.4771	7.3321	-2.6509	0.0000	0.0000	-0.2061	-0.0499	1.30631	1.97849	78.987
D4011	121	0.3727	0.6888	8.4320	-2.8691	0.0000	0.0000	-0.2160	-0.0499	1.36559	1.98252	79.186
MQA2C15	122	0.3435	-0.5877	9.1070	0.7128	0.0000	0.0000	-0.2175	0.0405	1.52907	1.98786	79.486
D4005	123	0.7167	-1.3441	8.8378	0.6808	0.0000	0.0000	-0.2096	0.0405	1.59270	1.99129	79.679
MBC2C15V	124	0.7167	-1.3441	8.8378	0.6808	0.0000	0.0000	-0.2096	0.0405	1.59270	1.99129	79.679
D4012	125	1.2150	-1.9386	8.6349	0.6557	0.0000	0.0000	-0.2035	0.0405	1.61871	1.99405	79.831
MSA2C15	126	1.8847	-2.5260	8.4420	0.6308	0.0000	0.0000	-0.1974	0.0405	1.63452	1.99685	79.981
D4013	127	8.0417	-5.5219	7.5737	0.5041	0.0000	0.0000	-0.1664	0.0405	1.66600	2.01210	80.746
MBC2C11	128	23.0280	-9.4693	6.7151	0.3539	0.0000	0.0000	-0.1406	0.0111	1.67771	2.03448	81.746
D4014	129	44.8376	-13.2490	6.1901	0.1930	0.0000	0.0000	-0.1299	0.0111	1.68246	2.05827	

MSA2C18	150	32.9164	11.3288	0.9252	0.1142	0.0000	0.0000	-0.0762	0.0067	1.72579	2.26781	90.541
D4015	151	0.7562	1.4040	7.3335	-2.6514	0.0000	0.0000	-0.0592	0.0067	1.81028	2.47850	93.067
IPM2C19	152	0.7562	1.4040	7.3335	-2.6514	0.0000	0.0000	-0.0592	0.0067	1.81028	2.47850	93.067
D4011	153	0.3527	0.6211	8.4336	-2.8695	0.0000	0.0000	-0.0578	0.0067	1.87333	2.48254	93.266
MQA2C19	154	0.3625	-0.6552	9.1086	0.7130	0.0000	0.0000	-0.0523	0.0297	2.03701	2.48787	93.566
D4005	155	0.7627	-1.4167	8.8394	0.6810	0.0000	0.0000	-0.0465	0.0297	2.09688	2.49130	93.759
MBC2C19V	156	0.7627	-1.4167	8.8394	0.6810	0.0000	0.0000	-0.0465	0.0297	2.09688	2.49130	93.759
D4012	157	1.2837	-2.0154	8.6364	0.6559	0.0000	0.0000	-0.0420	0.0297	2.12140	2.49406	93.911
MSA2C19	158	1.9771	-2.6068	8.4434	0.6310	0.0000	0.0000	-0.0376	0.0297	2.13640	2.49686	94.061
D4013A	159	4.6175	-4.1481	7.9754	0.5663	0.0000	0.0000	-0.0260	0.0297	2.15705	2.50444	94.452
IHA2C19	160	4.6175	-4.1481	7.9754	0.5663	0.0000	0.0000	-0.0260	0.0297	2.15705	2.50444	94.452
D4013B	161	8.2733	-5.6232	7.5748	0.5043	0.0000	0.0000	-0.0149	0.0297	2.16669	2.51211	94.826
MBE2C15	162	23.4896	-9.5981	6.7159	0.3541	0.0000	0.0000	0.0000	0.0000	2.17812	2.53448	95.826
D4014	163	45.5715	-13.4039	6.1905	0.1932	0.0000	0.0000	0.0000	0.0000	2.18279	2.55827	96.786
MQA2C20	164	48.5688	3.7805	6.7851	-2.2470	0.0000	0.0000	0.0000	0.0000	2.18379	2.56577	97.086
D4005	165	47.1202	3.7197	7.6864	-2.4192	0.0000	0.0000	0.0000	0.0000	2.18443	2.57003	97.279
MBC2C20H	166	47.1202	3.7197	7.6864	-2.4192	0.0000	0.0000	0.0000	0.0000	2.18443	2.57003	97.279
D4012	167	45.9980	3.6719	8.4415	-2.5546	0.0000	0.0000	0.0000	0.0000	2.18495	2.57303	97.431
MSA2C20	168	44.9035	3.6247	9.2279	-2.6883	0.0000	0.0000	0.0000	0.0000	2.18548	2.57574	97.581
D4016	169	30.5353	2.9350	25.2823	-4.6411	0.0000	0.0000	0.0000	0.0000	2.19490	2.59864	99.771
IPM2C21	170	30.5353	2.9350	25.2823	-4.6411	0.0000	0.0000	0.0000	0.0000	2.19490	2.59864	99.771
D4017	171	29.2343	2.8644	27.4095	-4.8412	0.0000	0.0000	0.0000	0.0000	2.19609	2.59999	99.996
MQA2C21	172	28.8930	-1.7088	29.0278	-0.4678	0.0000	0.0000	0.0000	0.0000	2.19775	2.60167	100.296
D4018	173	29.5472	-1.7346	29.2071	-0.4758	0.0000	0.0000	0.0000	0.0000	2.19878	2.60271	100.486
MBC2C21H	174	29.5472	-1.7346	29.2071	-0.4758	0.0000	0.0000	0.0000	0.0000	2.19878	2.60271	100.486
D4019	175	30.4053	-1.7678	29.4427	-0.4861	0.0000	0.0000	0.0000	0.0000	2.20008	2.60404	100.731
MBC2C21V	176	30.4053	-1.7678	29.4427	-0.4861	0.0000	0.0000	0.0000	0.0000	2.20008	2.60404	100.731
D4107	177	32.1784	-1.8346	29.9314	-0.5067	0.0000	0.0000	0.0000	0.0000	2.20259	2.60668	101.223
D4109	178	32.9176	-1.8617	30.1358	-0.5151	0.0000	0.0000	0.0000	0.0000	2.20357	2.60774	101.423
MQA2C21A	179	34.1197	-2.1480	30.3831	-0.3087	0.0000	0.0000	0.0000	0.0000	2.20499	2.60932	101.723
D4110	180	34.9855	-2.1809	30.5080	-0.3159	0.0000	0.0000	0.0000	0.0000	2.20591	2.61036	101.923
MBC2C21A	181	34.9855	-2.1809	30.5080	-0.3159	0.0000	0.0000	0.0000	0.0000	2.20591	2.61036	101.923
TVBV	182	36.3311	-2.2311	30.7040	-0.3269	0.0000	0.0000	0.0000	0.0000	2.20728	2.61195	102.228
DHARP	183	37.0042	-2.2558	30.8029	-0.3323	0.0000	0.0000	0.0000	0.0000	2.20793	2.61273	102.378
IHA2C21	184	37.0042	-2.2558	30.8029	-0.3323	0.0000	0.0000	0.0000	0.0000	2.20793	2.61273	102.378
DHARP	185	37.6846	-2.2805	30.9034	-0.3377	0.0000	0.0000	0.0000	0.0000	2.20857	2.61350	102.528
D4108	186	37.8344	-2.2859	30.9256	-0.3389	0.0000	0.0000	0.0000	0.0000	2.20870	2.61367	102.561
D4021	187	38.3623	-2.3048	31.0040	-0.3430	0.0000	0.0000	0.0000	0.0000	2.20918	2.61426	102.676
IPM2C21A	188	42.6442	-2.4529	31.6507	-0.3755	0.0000	0.0000	0.0000	0.0000	2.21273	2.61883	103.576
GON	189	46.1588	-2.5680	32.1940	-0.4007	0.0000	0.0000	0.0000	0.0000	2.21524	2.62232	104.276
D4105	190	47.7145	-2.6174	32.4377	-0.4115	0.0000	0.0000	0.0000	0.0000	2.21625	2.62380	104.576
MOLLTARG	191	50.3730	-2.6997	32.8583	-0.4296	0.0000	0.0000	0.0000	0.0000	2.21788	2.62624	105.076
D4106	192	55.3657	-2.8478	33.6606	-0.4620	0.0000	0.0000	0.0000	0.0000	2.22059	2.63055	105.976
MQE2M01	193	61.2257	-3.0123	34.6207	-0.4980	0.0000	0.0000	0.0000	0.0000	2.22332	2.63521	106.976
D4023	194	67.4149	-3.1768	35.6528	-0.5341	0.0000	0.0000	0.0000	0.0000	2.22580	2.63974	107.976
MQE2M02	195	73.9331	-3.3414	36.7571	-0.5701	0.0000	0.0000	0.0000	0.0000	2.22806	2.64414	108.976
D4024	196	114.6529	-4.2267	43.9360	-0.7641	0.0000	0.0000	0.0000	0.0000	2.23736	2.66551	114.356
IPM2C22	197	114.6529	-4.2267	43.9360	-0.7641	0.0000	0.0000	0.0000	0.0000	2.23736	2.66551	114.356
D4025	198	116.3502	-4.2596	44.2431	-0.7713	0.0000	0.0000	0.0000	0.0000	2.23764	2.66623	114.556
MQA2C22	199	124.2137	-22.3372	42.7694	5.6111	0.0000	0.0000	0.0000	0.0000	2.23804	2.66732	114.856
D4018	200	132.8472	-23.1020	40.6646	5.4668	0.0000	0.0000	0.0000	0.0000	2.23827	2.66805	115.046
MBC2C22H	201	132.8472	-23.1020	40.6646	5.4668	0.0000	0.0000	0.0000	0.0000	2.23827	2.66805	115.046
D4026	202	144.7211	-24.1142	37.9631	5.2758	0.0000	0.0000	0.0000	0.0000	2.23856	2.66907	115.298
MQA2C23	203	141.4244	34.6524	39.4321	-10.3700	0.0000	0.0000	0.0000	0.0000	2.23889	2.67032	115.598
D4027	204	131.8883	33.4627	42.3896	-10.7553	0.0000	0.0000	0.0000	0.0000	2.23905	2.67087	115.738
MBC2C23V	205	125.2807	32.6129	44.5682	-11.0306	0.0000	0.0000	0.0000	0.0000	2.23918	2.67124	115.838
D4028	206	104.7901	29.8241	52.1047	-11.9339	0.0000	0.0000	0.0000	0.0000	2.23963	2.67232	116.166
MQA2C24	207	95.0767	3.3865	55.2062	1.8641	0.0000	0.0000	0.0000	0.0000	2.24012	2.67320	116.466
D4029	208	93.6601	3.3590	54.4269	1.8471	0.0000	0.0000	0.0000	0.0000	2.24047	2.67381	116.676
IPM2C24A	209	93.6601	3.3590	54.4269	1.8471	0.0000	0.0000	0.0000	0.0000	2.24047	2.67381	116.676
D4030	210	77.7734	3.0330	45.7462	1.6456	0.0000	0.0000	0.0000	0.0000	2.24511	2.68174	119.161
IHA2C24	211	77.7734	3.0330	45.7462	1.6456	0.0000	0.0000	0.0000	0.0000	2.24511	2.68174	119.161
D4031	212	53.5908	2.4552	32.8178	1.2885	0.0000	0.0000	0.0000	0.0000	2.25598	2.69988	123.567
ATAGGER	213	53.5908	2.4552	32.8178	1.2885	0.0000	0.0000	0.0000	0.0000	2.25598	2.69988	123.567
D4101	214	44.4615	2.1979	28.0740	1.1294	0.0000	0.0000	0.0000	0.0000	2.26238	2.71017	125.529
COLA	215	42.7241	2.1454	27.1834	1.0970	0.0000	0.0000	0.0000	0.0000	2.26384	2.71248	125.929
D4102	216	35.0222	1.8955	23.2961	0.9425	0.0000	0.0000	0.0000	0.0000	2.27168	2.72454	127.835
FH2H00	217	35.0222	1.8955	23.2961	0.9425	0.0000	0.0000	0.0000	0.0000	2.27168	2.72454	127.835
D4103	218	22.3987	1.3919	17.2529	0.6312	0.0000	0.0000	0.0000	0.0000	2.29357	2.75522	131.675
COLB	219	21.3061	1.3394	16.7609	0.5988	0.0000	0.0000	0.0000	0.0000	2.29649	2.75896	132.075
D4104	220	8.0871	-0.2460	14.1294	-0.3812	0.0000	0.0000	0.0000	0.0000	2.48282	2.90279	144.165
TARGET	221	8.0871	-0.2460	14.1294	-0.3812	0.0000	0.0000	0.0000	0.0000	2.48282	2.90279	144.165
D4034	222	23.1840	-1.4284	27.5913	-1.1120	0.0000	0.0000	0.0000	0.0000	2.59721	2.97826	153.181
D4035	223	59.4344	-2.6066	54.1134	-1.8402	0.0000	0.0000	0.0000	0.0000	2.63612	3.01561	162.165

MAXIMUM LATTICE FUNCTIONS :
 BETA X = 0.1447211067E+03 BETA Y = 0.5936953009E+02
 ETA X = 0.2474783982E-14 ETA Y = 0.2738475360E+00

1
 OPERATION LIST ,

MATRIX

1 -1,

AFTER :D4035 ELEMENT #: 223

 * TRANSFORMATION MATRIX *

FIRST ORDER MATRIX

- -0.1130922E+01 -0.2602105E+02 -0.2099082E-14 -0.2908398E-13 0.0000000E+00 0.1635701E-17
 - -0.2770765E-01 -0.1521751E+01 -0.6944745E-17 -0.3272805E-15 0.0000000E+00 0.5302062E-19
 - 0.5512183E-15 0.4880242E-13 0.1636988E+01 0.3221241E+01 0.0000000E+00 -0.4121813E-10
 - -0.1298876E-16 -0.2700840E-15 0.5269097E-01 0.7145626E+00 0.0000000E+00 -0.1231397E-09

- 0.1464084E-19 0.1109471E-17 -0.1994063E-09 -0.3672102E-09 0.1000000E+01 0.1854869E-01
- 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.1000000E+01

HORIZONTAL MOVEMENT ANALYSIS

COMPACTION FACTOR = 0.1143813E-03 GAMMA TR = 0.9350234E+02

MOVEMENT IS UNSTABLE

HALF-TRACE = -0.13263366331917E+01
EIGENVALUE1 = -0.45503366375667E+00
WITH EIGENVECTOR :
X = 0.99966282840303E+00 XP = -0.25965929778476E-01
EIGENVALUE2 = -0.21976396026267E+01
WITH EIGENVECTOR :
X = 0.99916078694808E+00 XP = 0.40960002750152E-01

VERTICAL MOVEMENT ANALYSIS

MOVEMENT IS UNSTABLE

HALF-TRACE = 0.11757752080509E+01
EIGENVALUE1 = 0.17941984772342E+01
WITH EIGENVECTOR :
Y = -0.9988118882911E+00 YP = -0.48746374939898E-01
EIGENVALUE2 = 0.55735193886774E+00
WITH EIGENVECTOR :
Y = -0.94816199656868E+00 YP = 0.31778739475141E+00

1
OPERATION LIST ,

HARDWARE

11.023 6314.18 -80.6 100 -258.315 180 0.0 0 1 0 ;

VALUES ARE FOR ENERGY : 0.110E+02 GEV

THE LENGTHS ARE MEASURED IN METERS ,THE ANGLES IN DEGREES

THE SKYZ COORDINATES,AZIMUTH,ELEVATION AND ROLL ANGLES ARE :

#	NAME	S	X	Y	Z	THETA	PHI	PSI
1	D4000	6314.6253900000	-80.6000000000	100.0000000000	-258.7603900000	-180.0000000000	0.0000000000	0.0000000000
2	ITV2C00	6314.6253900000	-80.6000000000	100.0000000000	-258.7603900000	-180.0000000000	0.0000000000	0.0000000000
3	D4001	6314.9798900000	-80.6000000000	100.0000000000	-259.1148900000	-180.0000000000	0.0000000000	0.0000000000
4	MLA2C02	6317.2798900000	-80.6000000000	100.0000000000	-261.4148900000	-180.0000000000	0.0000000000	0.0000000000
5	D4002	6318.7970900000	-80.6000000000	100.0000000000	-262.9320900000	-180.0000000000	0.0000000000	0.0000000000
6	MBD2C00V	6318.7970900100	-80.6000000000	100.0000000000	-262.9320900100	-180.0000000000	0.0000000000	0.0000000000
7	D4003A	6319.2298600100	-80.6000000000	100.0000000000	-263.3648600100	-180.0000000000	0.0000000000	0.0000000000
8	IPM2C00	6319.2298600100	-80.6000000000	100.0000000000	-263.3648600100	-180.0000000000	0.0000000000	0.0000000000
9	D4003B	6321.9738600100	-80.6000000000	100.0000000000	-266.1088600100	-180.0000000000	0.0000000000	0.0000000000
10	MBD2C00H	6321.9738600200	-80.6000000000	100.0000000000	-266.1088600200	-180.0000000000	0.0000000000	0.0000000000
11	D4004	6333.3280600200	-80.6000000000	100.0000000000	-277.4630600200	-180.0000000000	0.0000000000	0.0000000000
12	MBC2C01H	6333.3280600300	-80.6000000000	100.0000000000	-277.4630600300	-180.0000000000	0.0000000000	0.0000000000
13	D4005	6333.5212100300	-80.6000000000	100.0000000000	-277.6562100300	-180.0000000000	0.0000000000	0.0000000000
14	IPM2C01	6333.5212100300	-80.6000000000	100.0000000000	-277.6562100300	-180.0000000000	0.0000000000	0.0000000000
15	D4006	6333.7458600300	-80.6000000000	100.0000000000	-277.8808600300	-180.0000000000	0.0000000000	0.0000000000
16	MQA2C01	6334.0458600300	-80.6000000000	100.0000000000	-278.1808600300	-180.0000000000	0.0000000000	0.0000000000
17	D4005	6334.2390100300	-80.6000000000	100.0000000000	-278.3740100300	-180.0000000000	0.0000000000	0.0000000000
18	MBC2C01V	6334.2390100300	-80.6000000000	100.0000000000	-278.3740100300	-180.0000000000	0.0000000000	0.0000000000
19	D4007	6338.8212100300	-80.6000000000	100.0000000000	-282.9562100300	-180.0000000000	0.0000000000	0.0000000000
20	IPM2C02	6338.8212100300	-80.6000000000	100.0000000000	-282.9562100300	-180.0000000000	0.0000000000	0.0000000000
21	D4006	6339.0458600300	-80.6000000000	100.0000000000	-283.1808600300	-180.0000000000	0.0000000000	0.0000000000
22	MQA2C02	6339.0458600300	-80.6000000000	100.0000000000	-283.1808600300	-180.0000000000	0.0000000000	0.0000000000
23	D4005	6339.5390100300	-80.6000000000	100.0000000000	-283.6740100300	-180.0000000000	0.0000000000	0.0000000000
24	MBC2C02H	6339.5390100400	-80.6000000000	100.0000000000	-283.6740100400	-180.0000000000	0.0000000000	0.0000000000
25	D4007	6344.1212100400	-80.6000000000	100.0000000000	-288.2562100400	-180.0000000000	0.0000000000	0.0000000000
26	IPM2C03	6344.1212100400	-80.6000000000	100.0000000000	-288.2562100400	-180.0000000000	0.0000000000	0.0000000000
27	D4006	6344.3458600400	-80.6000000000	100.0000000000	-288.4808600400	-180.0000000000	0.0000000000	0.0000000000
28	MQA2C03	6344.3458600400	-80.6000000000	100.0000000000	-288.4808600400	-180.0000000000	0.0000000000	0.0000000000
29	D4008	6345.0351000400	-80.6000000000	100.0000000000	-289.1701000400	-180.0000000000	0.0000000000	0.0000000000
30	MBC2C03V	6345.0351000500	-80.6000000000	100.0000000000	-289.1701000500	-180.0000000000	0.0000000000	0.0000000000
31	D4009	6349.4212100500	-80.6000000000	100.0000000000	-293.5562100500	-180.0000000000	0.0000000000	0.0000000000
32	IPM2C04	6349.4212100500	-80.6000000000	100.0000000000	-293.5562100500	-180.0000000000	0.0000000000	0.0000000000
33	D4006	6349.6458600500	-80.6000000000	100.0000000000	-293.7808600500	-180.0000000000	0.0000000000	0.0000000000
34	MQA2C04	6349.6458600500	-80.6000000000	100.0000000000	-293.7808600500	-180.0000000000	0.0000000000	0.0000000000
35	D4005	6350.1390100500	-80.6000000000	100.0000000000	-294.2740100500	-180.0000000000	0.0000000000	0.0000000000
36	MBC2C04H	6350.1390100600	-80.6000000000	100.0000000000	-294.2740100600	-180.0000000000	0.0000000000	0.0000000000
37	D4010	6357.9666100600	-80.6000000000	100.0000000000	-302.1016100600	-180.0000000000	0.0000000000	0.0000000000
38	IPM2C05	6357.9666100600	-80.6000000000	100.0000000000	-302.1016100600	-180.0000000000	0.0000000000	0.0000000000
39	D4011	6358.1658600600	-80.6000000000	100.0000000000	-302.3008600600	-180.0000000000	0.0000000000	0.0000000000
40	MQA2C05	6358.1658600600	-80.6000000000	100.0000000000	-302.3008600600	-180.0000000000	0.0000000000	0.0000000000
41	D4005	6358.6590100600	-80.6000000000	100.0000000000	-302.7940100600	-180.0000000000	0.0000000000	0.0000000000
42	MBC2C05V	6358.6590100700	-80.6000000000	100.0000000000	-302.7940100700	-180.0000000000	0.0000000000	0.0000000000
43	D4012	6358.8108300700	-80.6000000000	100.0000000000	-302.9458300700	-180.0000000000	0.0000000000	0.0000000000
44	MSA2C05	6358.9608300700	-80.6000000000	100.0000000000	-303.0958300700	-180.0000000000	0.0000000000	0.0000000000
45	D4013	6359.7258600700	-80.6000000000	100.0000000000	-304.8607128860	-180.0000000000	1.7027000000	0.0000000000
46	MBE2C01	6360.7258600700	-80.6000000000	100.0148577671	-304.8607128860	-180.0000000000	1.7027000000	0.0000000000
47	D4014	6361.6858600700	-80.6000000000	100.0433825804	-305.8202890086	-180.0000000000	1.7027000000	0.0000000000
48	MQA2C06	6361.9858600700	-80.6000000000	100.0522965846	-306.1201565469	-180.0000000000	1.7027000000	0.0000000000
49	D4005	6362.1790100700	-80.6000000000	100.0580357176	-306.3132212636	-180.0000000000	1.7027000000	0.0000000000
50	MBC2C06H	6362.1790100800	-80.6000000000	100.0580357179	-306.3132212736	-180.0000000000	1.7027000000	0.0000000000
51	D4012	6362.3308300800	-80.6000000000	100.0625467982	-306.4649742392	-180.0000000000	1.7027000000	0.0000000000
52	MSA2C06	6362.4808300800	-80.6000000000	100.0670038003	-306.6149080083	-180.0000000000	1.7027000000	0.0000000000
53	D4015	6365.0066100800	-80.6000000000	100.1420531784	-309.1395727780	-180.0000000000	1.7027000000	0.0000000000

54	IPM2C07	6365.0066100800	-80.6000000000	100.1420531784	-309.1395727780	-180.0000000000	1.7027000000	0.0000000000
55	D4011	6365.2058600800	-80.6000000000	100.1479735628	-309.3387348014	-180.0000000000	1.7027000000	0.0000000000
56	MQA2C07	6365.5058600800	-80.6000000000	100.1568875670	-309.6386023397	-180.0000000000	1.7027000000	0.0000000000
57	D4005	6365.6990100800	-80.6000000000	100.1626267000	-309.8316670564	-180.0000000000	1.7027000000	0.0000000000
58	MBC2C07V	6365.6990100900	-80.6000000000	100.1626267003	-309.8316670664	-180.0000000000	1.7027000000	0.0000000000
59	D4012	6365.8508300900	-80.6000000000	100.1671377807	-309.9834200320	-180.0000000000	1.7027000000	0.0000000000
60	MSA2C07	6366.0008300900	-80.6000000000	100.1715947828	-310.1333538011	-180.0000000000	1.7027000000	0.0000000000
61	D4013	6366.7658600900	-80.6000000000	100.1943263848	-310.8980460106	-180.0000000000	1.7027000000	0.0000000000
62	MBE2C03	6367.7658600900	-80.6000000000	100.2388865654	-311.8970158786	-180.0000000000	3.4054000000	0.0000000000
63	D4014	6368.7258600900	-80.6000000000	100.2959110024	-312.8553207432	-180.0000000000	3.4054000000	0.0000000000
64	MQA2C08	6369.0258600900	-80.6000000000	100.3137311390	-313.1547910134	-180.0000000000	3.4054000000	0.0000000000
65	D4005	6369.2190100900	-80.6000000000	100.3252043369	-313.3475999557	-180.0000000000	3.4054000000	0.0000000000
66	MBC2C08H	6369.2190101000	-80.6000000000	100.3252043375	-313.3475999557	-180.0000000000	3.4054000000	0.0000000000
67	D4012	6369.3708301000	-80.6000000000	100.3342225146	-313.4991518871	-180.0000000000	3.4054000000	0.0000000000
68	MSA2C08	6369.5208301000	-80.6000000000	100.3431325829	-313.6488870222	-180.0000000000	3.4054000000	0.0000000000
69	D4015	6372.0466101000	-80.6000000000	100.4931650646	-316.1702070857	-180.0000000000	3.4054000000	0.0000000000
70	IPM2C09	6372.0466101000	-80.6000000000	100.4931650646	-316.1702070857	-180.0000000000	3.4054000000	0.0000000000
71	D4011	6372.2458601000	-80.6000000000	100.5050006053	-316.3691052569	-180.0000000000	3.4054000000	0.0000000000
72	MQA2C09	6372.5458601000	-80.6000000000	100.5228207419	-316.6685755271	-180.0000000000	3.4054000000	0.0000000000
73	D4005	6372.7390101000	-80.6000000000	100.5342939398	-316.8613844694	-180.0000000000	3.4054000000	0.0000000000
74	MBC2C09V	6372.7390101100	-80.6000000000	100.5342939404	-316.8613844794	-180.0000000000	3.4054000000	0.0000000000
75	D4012	6372.8908301100	-80.6000000000	100.5433121175	-317.0129364008	-180.0000000000	3.4054000000	0.0000000000
76	MSA2C09	6373.0408301100	-80.6000000000	100.5522221858	-317.1626715359	-180.0000000000	3.4054000000	0.0000000000
77	D4013A	6373.4317301100	-80.6000000000	100.5754418237	-317.5528812979	-180.0000000000	3.4054000000	0.0000000000
78	IHA2C09	6373.4317301100	-80.6000000000	100.5754418237	-317.5528812979	-180.0000000000	3.4054000000	0.0000000000
79	D4013B	6373.8058601100	-80.6000000000	100.5976653160	-317.9263506719	-180.0000000000	3.4054000000	0.0000000000
80	MBE2C05	6374.8058601100	-80.6000000000	100.6718885602	-318.9235554237	-180.0000000000	5.1081000000	0.0000000000
81	D4014	6375.7658601100	-80.6000000000	100.7573622638	-319.8797427724	-180.0000000000	5.1081000000	0.0000000000
82	MQA2C10	6376.0658601100	-80.6000000000	100.7840727962	-320.1785513189	-180.0000000000	5.1081000000	0.0000000000
83	D4005	6376.2590101100	-80.6000000000	100.8012699273	-320.3709342215	-180.0000000000	5.1081000000	0.0000000000
84	MBC2C10H	6376.2590101200	-80.6000000000	100.8012699282	-320.3709342314	-180.0000000000	5.1081000000	0.0000000000
85	D4012	6376.4108301200	-80.6000000000	100.8147872383	-320.5221512765	-180.0000000000	5.1081000000	0.0000000000
86	MSA2C10	6376.5608301200	-80.6000000000	100.8281425045	-320.6715555498	-180.0000000000	5.1081000000	0.0000000000
87	D4015	6379.0866101200	-80.6000000000	101.0530255995	-323.1873043850	-180.0000000000	5.1081000000	0.0000000000
88	IPM2C11	6379.0866101200	-80.6000000000	101.0530255995	-323.1873043850	-180.0000000000	5.1081000000	0.0000000000
89	D4011	6379.2858601200	-80.6000000000	101.0707658447	-323.3857630613	-180.0000000000	5.1081000000	0.0000000000
90	MQA2C11	6379.5858601200	-80.6000000000	101.0974763771	-323.6845160778	-180.0000000000	5.1081000000	0.0000000000
91	D4005	6379.7790101200	-80.6000000000	101.1146735082	-323.8769545103	-180.0000000000	5.1081000000	0.0000000000
92	MBC2C11V	6379.7790101300	-80.6000000000	101.1146735091	-323.8769545203	-180.0000000000	5.1081000000	0.0000000000
93	D4012	6379.9308301300	-80.6000000000	101.1281908192	-324.0281715654	-180.0000000000	5.1081000000	0.0000000000
94	MSA2C11	6380.0808301300	-80.6000000000	101.1415460854	-324.1775758386	-180.0000000000	5.1081000000	0.0000000000
95	D4013	6380.8458601300	-80.6000000000	101.2096606141	-324.9395675130	-180.0000000000	5.1081000000	0.0000000000
96	MBE2C07	6381.8458601300	-80.6000000000	101.3134813768	-325.9341265390	-180.0000000000	6.8108000000	0.0000000000
97	D4014	6382.8058601300	-80.6000000000	101.4273288671	-326.8873519840	-180.0000000000	6.8108000000	0.0000000000
98	MQA2C12	6383.1058601300	-80.6000000000	101.4629062079	-327.1852349355	-180.0000000000	6.8108000000	0.0000000000
99	D4005	6383.2990101300	-80.6000000000	101.4858120857	-327.3770219092	-180.0000000000	6.8108000000	0.0000000000
100	MBC2C12H	6383.2990101400	-80.6000000000	101.4858120869	-327.3770219191	-180.0000000000	6.8108000000	0.0000000000
101	D4012	6383.4008301400	-80.6000000000	101.5038165932	-327.5277705515	-180.0000000000	6.8108000000	0.0000000000
102	MSA2C12	6383.6008301400	-80.6000000000	101.5216052635	-327.6767120272	-180.0000000000	6.8108000000	0.0000000000
103	D4015	6386.1266101400	-80.6000000000	101.8211403825	-330.1846680318	-180.0000000000	6.8108000000	0.0000000000
104	IPM2C13	6386.1266101400	-80.6000000000	101.8211403825	-330.1846680318	-180.0000000000	6.8108000000	0.0000000000
105	D4011	6386.3258601400	-80.6000000000	101.8447696663	-330.3825119588	-180.0000000000	6.8108000000	0.0000000000
106	MQA2C13	6386.6258601400	-80.6000000000	101.8803470070	-330.6803949104	-180.0000000000	6.8108000000	0.0000000000
107	D4005	6386.8190101400	-80.6000000000	101.9032528849	-330.8721818840	-180.0000000000	6.8108000000	0.0000000000
108	MBC2C13V	6386.8190101500	-80.6000000000	101.9032528861	-330.8721818939	-180.0000000000	6.8108000000	0.0000000000
109	D4012	6386.9708301500	-80.6000000000	101.9212573923	-331.0229305263	-180.0000000000	6.8108000000	0.0000000000
110	MSA2C13	6387.1208301500	-80.6000000000	101.9390460627	-331.1718720021	-180.0000000000	6.8108000000	0.0000000000
111	D4013	6387.8858601500	-80.6000000000	102.0297718393	-331.9315033168	-180.0000000000	6.8108000000	0.0000000000
112	MBE2C09	6388.8858601500	-80.6000000000	102.1335926020	-332.9260623428	-180.0000000000	5.1081000000	0.0000000000
113	D4014	6389.8458601500	-80.6000000000	102.2190663057	-333.8822496916	-180.0000000000	5.1081000000	0.0000000000
114	MQA2C14	6390.1458601500	-80.6000000000	102.2457768381	-334.1810582381	-180.0000000000	5.1081000000	0.0000000000
115	D4005	6390.3390101500	-80.6000000000	102.2629739692	-334.3734411406	-180.0000000000	5.1081000000	0.0000000000
116	MBC2C14H	6390.3390101600	-80.6000000000	102.2629739700	-334.3734411506	-180.0000000000	5.1081000000	0.0000000000
117	D4012	6390.4908301600	-80.6000000000	102.2764912801	-334.5246581957	-180.0000000000	5.1081000000	0.0000000000
118	MSA2C14	6390.6408301600	-80.6000000000	102.2898465463	-334.6740624689	-180.0000000000	5.1081000000	0.0000000000
119	D4015	6393.1666101600	-80.6000000000	102.5147296413	-337.1898113041	-180.0000000000	5.1081000000	0.0000000000
120	IPM2C15	6393.1666101600	-80.6000000000	102.5147296413	-337.1898113041	-180.0000000000	5.1081000000	0.0000000000
121	D4011	6393.3658601600	-80.6000000000	102.5324698866	-337.3882699804	-180.0000000000	5.1081000000	0.0000000000
122	MQA2C15	6393.6658601600	-80.6000000000	102.5591804190	-337.6870785269	-180.0000000000	5.1081000000	0.0000000000
123	D4005	6393.8590101600	-80.6000000000	102.5763775501	-337.8794614295	-180.0000000000	5.1081000000	0.0000000000
124	MBC2C15V	6393.8590101700	-80.6000000000	102.5763775510	-337.8794614394	-180.0000000000	5.1081000000	0.0000000000
125	D4012	6394.0108301700	-80.6000000000	102.5899848611	-338.0306784845	-180.0000000000	5.1081000000	0.0000000000
126	MSA2C15	6394.1608301700	-80.6000000000	102.6032501273	-338.1800827578	-180.0000000000	5.1081000000	0.0000000000
127	D4013	6394.9258601700	-80.6000000000	102.6713646559	-338.9420744322	-180.0000000000	5.1081000000	0.0000000000
128	MBE2C11	6395.9258601700	-80.6000000000	102.7455879001	-339.9392791840	-180.0000000000	3.4054000000	0.0000000000
129	D4014	6396.8858601700	-80.6000000000	102.8026123370	-340.8975840486	-180.0000000000	3.4054000000	0.0000000000
130	MQA2C16	6397.1858601700	-80.6000000000	102.8204324736	-341.1970543188	-180.0000000000	3.4054000000	0.0000000000
131	D4005	6397.3790101700	-80.6000000000	102.8319056715	-341.3898632611	-180.0000000000	3.4054000000	0.0000000000
132	MBC2C16H	6397.3790101800	-80.6000000000	102.8319056721	-341.3898632711	-180.0000000000	3.4054000000	0.0000000000
133	D4012	6397.5308301800	-80.6000000000	102.8409238492	-341.5414151925	-180.0000000000	3.4054000000	0.0000000000
134	MSA2C16	6397.6808301800	-80.6000000000	102.8498339175	-341.6911503276	-180.0000000000	3.4054000000	0.0000000000
135	D4015							

158	MSA2C19	6408.2408302000	-80.6000000000	103.3056638464	-352.2402247504	-180.0000000000	1.7027000000	0.0000000000
159	D4013A	6408.6317302000	-80.6000000000	103.3172787938	-352.6309521528	-180.0000000000	1.7027000000	0.0000000000
160	IHA2C19	6408.6317302000	-80.6000000000	103.3172787938	-352.6309521528	-180.0000000000	1.7027000000	0.0000000000
161	D4013B	6409.0058602000	-80.6000000000	103.3283954484	-353.0049169599	-180.0000000000	1.7027000000	0.0000000000
162	MBC2C15	6410.0058602000	-80.6000000000	103.3432532155	-354.0047697759	-180.0000000000	0.0000000000	0.0000000000
163	D4014	6410.9658602000	-80.6000000000	103.3432532155	-354.9647697759	-180.0000000000	0.0000000000	0.0000000000
164	MQA2C20	6411.2658602000	-80.6000000000	103.3432532155	-355.2647697759	-180.0000000000	0.0000000000	0.0000000000
165	D4005	6411.4590102000	-80.6000000000	103.3432532155	-355.4579197759	-180.0000000000	0.0000000000	0.0000000000
166	MBC2C20H	6411.4590102100	-80.6000000000	103.3432532155	-355.4579197759	-180.0000000000	0.0000000000	0.0000000000
167	D4012	6411.6108302100	-80.6000000000	103.3432532155	-355.6097397859	-180.0000000000	0.0000000000	0.0000000000
168	MSA2C20	6411.7608302100	-80.6000000000	103.3432532155	-355.7597397859	-180.0000000000	0.0000000000	0.0000000000
169	D4016	6413.9512102100	-80.6000000000	103.3432532155	-357.9501197859	-180.0000000000	0.0000000000	0.0000000000
170	IPM2C21	6413.9512102100	-80.6000000000	103.3432532155	-357.9501197859	-180.0000000000	0.0000000000	0.0000000000
171	D4017	6414.1755502100	-80.6000000000	103.3432532155	-358.1744597859	-180.0000000000	0.0000000000	0.0000000000
172	MQA2C21	6414.4755502100	-80.6000000000	103.3432532155	-358.4744597859	-180.0000000000	0.0000000000	0.0000000000
173	D4018	6414.6655502100	-80.6000000000	103.3432532155	-358.6644597859	-180.0000000000	0.0000000000	0.0000000000
174	MBC2C21H	6414.6655502200	-80.6000000000	103.3432532155	-358.6644597959	-180.0000000000	0.0000000000	0.0000000000
175	D4019	6414.9105502200	-80.6000000000	103.3432532155	-358.9094597959	-180.0000000000	0.0000000000	0.0000000000
176	MBC2C21V	6414.9105502300	-80.6000000000	103.3432532155	-358.9094598059	-180.0000000000	0.0000000000	0.0000000000
177	D4107	6415.4027502300	-80.6000000000	103.3432532155	-359.4016598059	-180.0000000000	0.0000000000	0.0000000000
178	D4109	6415.6027502300	-80.6000000000	103.3432532155	-359.6016598059	-180.0000000000	0.0000000000	0.0000000000
179	MQA2C21A	6415.9027502300	-80.6000000000	103.3432532155	-359.9016598059	-180.0000000000	0.0000000000	0.0000000000
180	D4110	6416.1027502300	-80.6000000000	103.3432532155	-360.1016598059	-180.0000000000	0.0000000000	0.0000000000
181	MBC2C21A	6416.1027502400	-80.6000000000	103.3432532155	-360.1016598159	-180.0000000000	0.0000000000	0.0000000000
182	TVBV	6416.4077502400	-80.6000000000	103.3432532155	-360.4066598159	-180.0000000000	0.0000000000	0.0000000000
183	DHARP	6416.5577502400	-80.6000000000	103.3432532155	-360.5566598159	-180.0000000000	0.0000000000	0.0000000000
184	IHA2C21	6416.5577502400	-80.6000000000	103.3432532155	-360.5566598159	-180.0000000000	0.0000000000	0.0000000000
185	DHARP	6416.7077502400	-80.6000000000	103.3432532155	-360.7066598159	-180.0000000000	0.0000000000	0.0000000000
186	D4108	6416.7405502400	-80.6000000000	103.3432532155	-360.7394598159	-180.0000000000	0.0000000000	0.0000000000
187	D4021	6416.8555024000	-80.6000000000	103.3432532155	-360.8544598159	-180.0000000000	0.0000000000	0.0000000000
188	IPM2C21A	6417.7555024000	-80.6000000000	103.3432532155	-361.7544598159	-180.0000000000	0.0000000000	0.0000000000
189	GON	6418.4555024000	-80.6000000000	103.3432532155	-362.4544598159	-180.0000000000	0.0000000000	0.0000000000
190	D4105	6418.7555024000	-80.6000000000	103.3432532155	-362.7544598159	-180.0000000000	0.0000000000	0.0000000000
191	MOLLTARG	6419.2555024000	-80.6000000000	103.3432532155	-363.2544598159	-180.0000000000	0.0000000000	0.0000000000
192	D4106	6420.1555024000	-80.6000000000	103.3432532155	-364.1544598159	-180.0000000000	0.0000000000	0.0000000000
193	MQE2M01	6421.1555024000	-80.6000000000	103.3432532155	-365.1544598159	-180.0000000000	0.0000000000	0.0000000000
194	D4023	6422.1555024000	-80.6000000000	103.3432532155	-366.1544598159	-180.0000000000	0.0000000000	0.0000000000
195	MQE2M02	6423.1555024000	-80.6000000000	103.3432532155	-367.1544598159	-180.0000000000	0.0000000000	0.0000000000
196	D4024	6428.5360502400	-80.6000000000	103.3432532155	-372.5349598159	-180.0000000000	0.0000000000	0.0000000000
197	IPM2C22	6428.5360502400	-80.6000000000	103.3432532155	-372.5349598159	-180.0000000000	0.0000000000	0.0000000000
198	D4025	6428.7360502400	-80.6000000000	103.3432532155	-372.7349598159	-180.0000000000	0.0000000000	0.0000000000
199	MQA2C22	6429.0360502400	-80.6000000000	103.3432532155	-373.0349598159	-180.0000000000	0.0000000000	0.0000000000
200	D4018	6429.2260502400	-80.6000000000	103.3432532155	-373.2249598159	-180.0000000000	0.0000000000	0.0000000000
201	MBC2C22H	6429.2260502500	-80.6000000000	103.3432532155	-373.2249598259	-180.0000000000	0.0000000000	0.0000000000
202	D4026	6429.4775302500	-80.6000000000	103.3432532155	-373.4764398259	-180.0000000000	0.0000000000	0.0000000000
203	MQA2C23	6429.7775302500	-80.6000000000	103.3432532155	-373.7764398259	-180.0000000000	0.0000000000	0.0000000000
204	D4027	6429.9175302500	-80.6000000000	103.3432532155	-373.9164398259	-180.0000000000	0.0000000000	0.0000000000
205	MBC2C23V	6430.0175302500	-80.6000000000	103.3432532155	-374.0164398259	-180.0000000000	0.0000000000	0.0000000000
206	D4028	6430.3457102500	-80.6000000000	103.3432532155	-374.3446198259	-180.0000000000	0.0000000000	0.0000000000
207	MQA2C24	6430.6457102500	-80.6000000000	103.3432532155	-374.6446198259	-180.0000000000	0.0000000000	0.0000000000
208	D4029	6430.8557102500	-80.6000000000	103.3432532155	-374.8546198259	-180.0000000000	0.0000000000	0.0000000000
209	IPM2C24A	6430.8557102500	-80.6000000000	103.3432532155	-374.8546198259	-180.0000000000	0.0000000000	0.0000000000
210	D4030	6433.3411102500	-80.6000000000	103.3432532155	-377.3400198259	-180.0000000000	0.0000000000	0.0000000000
211	IHA2C24	6433.3411102500	-80.6000000000	103.3432532155	-377.3400198259	-180.0000000000	0.0000000000	0.0000000000
212	D4031	6437.7474002500	-80.6000000000	103.3432532155	-381.7463098259	-180.0000000000	0.0000000000	0.0000000000
213	ATAGGER	6437.7474002500	-80.6000000000	103.3432532155	-381.7463098259	-180.0000000000	0.0000000000	0.0000000000
214	D4101	6439.7094002500	-80.6000000000	103.3432532155	-383.7083098259	-180.0000000000	0.0000000000	0.0000000000
215	COLA	6440.1094002500	-80.6000000000	103.3432532155	-384.1083098259	-180.0000000000	0.0000000000	0.0000000000
216	D4102	6442.0154002500	-80.6000000000	103.3432532155	-386.0143098259	-180.0000000000	0.0000000000	0.0000000000
217	PH2H00	6442.0154002500	-80.6000000000	103.3432532155	-386.0143098259	-180.0000000000	0.0000000000	0.0000000000
218	D4103	6445.8554002500	-80.6000000000	103.3432532155	-389.8543098259	-180.0000000000	0.0000000000	0.0000000000
219	COLB	6446.2554002500	-80.6000000000	103.3432532155	-390.2543098259	-180.0000000000	0.0000000000	0.0000000000
220	D4104	6458.3454002500	-80.6000000000	103.3432532155	-402.3443098259	-180.0000000000	0.0000000000	0.0000000000
221	TARGET	6458.3454002500	-80.6000000000	103.3432532155	-402.3443098259	-180.0000000000	0.0000000000	0.0000000000
222	D4034	6467.3614102500	-80.6000000000	103.3432532155	-411.3603198259	-180.0000000000	0.0000000000	0.0000000000
223	D4035	6476.3454102500	-80.6000000000	103.3432532155	-420.3443198259	-180.0000000000	0.0000000000	0.0000000000

1

STOP

hallb_5_photon.outd

LDIMAT VERSION 2.9 PROD
ODATE AND TIME OF THIS RUN: 12-JUN-2007 13:00:19

XSIF Parser Version 2.1
Version Date: 01-JAN-2004
Run: 12-JUN-2007 13:00:19
XSIF Parser developed by NLC Department,
Stanford Linear Accelerator Center.

UTRANSPORT

TITLE

CONVERTED FROM ../.././OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//HALLB_5_PHOTON.OPT

5

D4000: DRIFT, L=0.44539

ITV2C00: MONITOR, L=0

D4001: DRIFT, L=0.3545

10

MLA2C02: SBEND, L=2.3, ANGLE=0, K1=0, &

E1=0, E2=0, HGAP=0, &

HGAPX=0, &

FINT=0.5, TILT=0

D4002: DRIFT, L=1.5172

MBD2C00V: GKICK, L=1E-08, DXP=0, DYP=0

15

D4003: DRIFT, L=3.17677

MBD2C00H: GKICK, L=1E-08, DXP=0, DYP=0

D4004: DRIFT, L=11.3542

MBC2C01H: GKICK, L=1E-08, DXP=0, DYP=0

20 D4005: DRIFT, L=0.19315
 IPM2C01: MONITOR, L=0
 D4006: DRIFT, L=0.22465
 MQA2C01: QUADRUPOLE, L=0.3, K1=0.0588082, TILT=0
 MBC2C01V: GKICK, L=0, DXP=0, DYP=0
 D4007: DRIFT, L=4.5822
 25 IPM2C02: MONITOR, L=0
 MQA2C02: QUADRUPOLE, L=0.3, K1=0.119174, TILT=0
 MBC2C02H: GKICK, L=1E-08, DXP=0, DYP=0
 IPM2C03: MONITOR, L=0
 MQA2C03: QUADRUPOLE, L=0.3, K1=-0.274798, TILT=0
 D4008: DRIFT, L=0.38924
 30 MBC2C03V: GKICK, L=1E-08, DXP=0, DYP=0
 D4009: DRIFT, L=4.38611
 IPM2C04: MONITOR, L=0
 MQA2C04: QUADRUPOLE, L=0.3, K1=0.036698, TILT=0
 MBC2C04H: GKICK, L=1E-08, DXP=0, DYP=0
 35 D4010: DRIFT, L=7.8276
 IPM2C05: MONITOR, L=0
 D4011: DRIFT, L=0.19925
 MQA2C05: QUADRUPOLE, L=0.3, K1=0.317848, TILT=0
 MBC2C05V: GKICK, L=1E-08, DXP=0, DYP=0
 40 D4012: DRIFT, L=0.15182
 MSA2C05: SEXTUPOLE, L=0.15, K2=-0.619986
 D4013: DRIFT, L=0.76503
 MBE2C01: SBEND, L=1, ANGLE=1.28616, K1=-18.0835, &
 E1=0.853071, E2=0.853071, HGAP=0, &
 HGAPX=0, &
 FINT=0.5, TILT=90
 D4201: DRIFT, L=0.5
 MBE2C03: SBEND, L=1, ANGLE=1.28616, K1=-18.0835, &
 50 E1=0.853071, E2=0.853071, HGAP=0, &
 HGAPX=0, &
 FINT=0.5, TILT=90
 MBE2C05: SBEND, L=1, ANGLE=1.28616, K1=-18.0835, &
 E1=0.853071, E2=0.853071, HGAP=0, &
 55 HGAPX=0, &
 FINT=0.5, TILT=90
 MBE2C07: SBEND, L=1, ANGLE=1.28616, K1=-18.0835, &
 E1=0.853071, E2=0.853071, HGAP=0, &
 HGAPX=0, &
 60 FINT=0.5, TILT=90
 D4204: DRIFT, L=5.595
 D4206: DRIFT, L=0.075
 MQA2C31: QUADRUPOLE, L=0.3, K1=-1.24908, TILT=0
 D4203: DRIFT, L=0.7
 65 MQA2C32: QUADRUPOLE, L=0.3, K1=1.16614, TILT=0
 D4205: DRIFT, L=0.15
 MQA2C32A: QUADRUPOLE, L=0.3, K1=1.16614, TILT=0
 MQA2C33: QUADRUPOLE, L=0.3, K1=-1.24908, TILT=0
 D4202: DRIFT, L=5.27
 70 MQA2C34: QUADRUPOLE, L=0.3, K1=-1.24908, TILT=0
 MQA2C35: QUADRUPOLE, L=0.3, K1=1.24908, TILT=0
 MQA2C35A: QUADRUPOLE, L=0.3, K1=1.24908, TILT=0
 MQA2C36: QUADRUPOLE, L=0.3, K1=-1.24908, TILT=0
 MQA2C37: QUADRUPOLE, L=0.3, K1=-1.24908, TILT=0
 75 MQA2C38: QUADRUPOLE, L=0.3, K1=1.1625, TILT=0
 MQA2C38A: QUADRUPOLE, L=0.3, K1=1.1625, TILT=0
 MQA2C39: QUADRUPOLE, L=0.3, K1=-1.2503, TILT=0
 MBE2C09: SBEND, L=1, ANGLE=-1.28616, K1=-18.0835, &
 E1=-0.853071, E2=-0.853071, HGAP=0, &
 80 HGAPX=0, &
 FINT=0.5, TILT=90
 MBE2C11: SBEND, L=1, ANGLE=-1.28616, K1=-18.0835, &
 E1=-0.853071, E2=-0.853071, HGAP=0, &
 HGAPX=0, &
 85 FINT=0.5, TILT=90
 MBE2C13: SBEND, L=1, ANGLE=-1.28616, K1=-18.0835, &
 E1=-0.853071, E2=-0.853071, HGAP=0, &
 HGAPX=0, &
 FINT=0.5, TILT=90
 90 MBE2C15: SBEND, L=1, ANGLE=-1.28616, K1=-18.0835, &
 E1=-0.853071, E2=-0.853071, HGAP=0, &
 HGAPX=0, &
 FINT=0.5, TILT=90
 D4208: DRIFT, L=0.705
 95 IPMGEN: MONITOR, L=0
 D4209: DRIFT, L=0.225
 MQA2C40: QUADRUPOLE, L=0.3, K1=-0.439415, TILT=0
 DCORR: DRIFT, L=0.193
 D4210: DRIFT, L=0.164
 100 MQA2C41: QUADRUPOLE, L=0.3, K1=-0.472554, TILT=0
 MQA2C42: QUADRUPOLE, L=0.3, K1=0.407238, TILT=0
 MQA2C43: QUADRUPOLE, L=0.3, K1=0.333033, TILT=0
 MBD2C43H: GKICK, L=1E-08, DXP=0, DYP=0
 MBD2C43V: GKICK, L=1E-08, DXP=0, DYP=0
 105 D4016: DRIFT, L=5.83501
 IPM2C21: MONITOR, L=0
 D4017: DRIFT, L=0.22434
 D4211: DRIFT, L=1.4
 MBD2C43AH: GKICK, L=1E-08, DXP=0, DYP=0
 110 MBD2C43AV: GKICK, L=1E-08, DXP=0, DYP=0
 D4212: DRIFT, L=0.1
 TV_BV: MONITOR, L=0.3
 D4108: DRIFT, L=0.09
 DHARP: MONITOR, L=0.15
 115 IHA2C21: MONITOR, L=0
 D4021: DRIFT, L=0.115
 IPM2C21A: MONITOR, L=0.9
 GON: MONITOR, L=0.7
 D4105: DRIFT, L=0.3
 120 MOLLTARG: MONITOR, L=0.5
 D4106: DRIFT, L=0.9
 MQE2M01: QUADRUPOLE, L=1, K1=0, TILT=0

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125 D4023: DRIFT, L=1
MQE2M02: QUADRUPOLE, L=1, K1=0, TILT=0
D4024: DRIFT, L=5.3805
IPM2C22: MONITOR, L=0
D4025: DRIFT, L=0.2
MQA2C22: QUADRUPOLE, L=0.3, K1=0, TILT=0
130 D4018: DRIFT, L=0.19
MBC2C22H: GKICK, L=1E-08, DXP=0, DYP=0
D4026: DRIFT, L=0.25148
MQA2C23: QUADRUPOLE, L=0.3, K1=0, TILT=0
D4027: DRIFT, L=0.14
MBC2C23V: GKICK, L=0.1, DXP=0, DYP=0
135 D4028: DRIFT, L=0.32818
MQA2C24: QUADRUPOLE, L=0.3, K1=0, TILT=0
D4029: DRIFT, L=0.21
IPM2C24A: MONITOR, L=0
D4030: DRIFT, L=6
140 IHA2C24: MONITOR, L=0
D4031: DRIFT, L=0.89169
ATAGGER: GKICK, L=0, DXP=0, DYP=0
D4101: DRIFT, L=1.962
COLA: MONITOR, L=0.4
145 D4111: DRIFT, L=0.99
FRONTWALL: GKICK, L=1E-08, DXP=0, DYP=0
D4112: DRIFT, L=0.916
PH2H00: MONITOR, L=0
D4103: DRIFT, L=3.84
150 COLB: MONITOR, L=0.4
D4104: DRIFT, L=12.09
TARGET: MONITOR, L=0
D4034: DRIFT, L=12.621
155 BACKWALL: GKICK, L=1E-08, DXP=0, DYP=0
D4035: DRIFT, L=6.1
ALCOVEEND: GKICK, L=1E-08, DXP=0, DYP=0

HALLB_5_PHOTON: LINE=(D4000, &
160 ITV2C00, D4001, MLA2C02, D4002, MBD2C00V, &
D4003, MBD2C00H, D4004, MBC2C01H, D4005, &
IPM2C01, D4006, MQA2C01, D4005, MBC2C01V, &
D4007, IPM2C02, D4006, MQA2C02, D4005, &
MBC2C02H, D4007, IPM2C03, D4006, MQA2C03, &
165 D4008, MBC2C03V, D4009, IPM2C04, D4006, &
MQA2C04, D4005, MBC2C04H, D4010, IPM2C05, &
D4011, MQA2C05, D4005, MBC2C05V, D4012, &
MSA2C05, D4013, MBE2C01, D4201, MBE2C03, &
D4201, MBE2C05, D4201, MBE2C07, D4204, &
170 D4206, MQA2C31, D4206, D4203, D4206, &
MQA2C32, D4206, D4205, D4206, MQA2C32A, &
D4206, D4203, D4206, MQA2C33, D4206, &
D4202, D4206, MQA2C34, D4206, D4203, &
D4206, MQA2C35, D4206, D4205, D4206, &
MQA2C35A, D4206, D4203, D4206, MQA2C36, &
175 D4206, D4202, D4206, MQA2C37, D4206, &
D4203, D4206, MQA2C38, D4206, D4205, &
D4206, MQA2C38A, D4206, D4203, D4206, &
MQA2C39, D4206, D4204, MBE2C09, D4201, &
MBE2C11, D4201, MBE2C13, D4201, MBE2C15, &
180 D4208, IPMGEN, D4209, D4206, MQA2C40, &
D4206, DCORR, DCORR, D4210, IPMGEN, &
D4209, D4206, MQA2C41, D4206, DCORR, &
DCORR, D4210, IPMGEN, D4209, D4206, &
MQA2C42, D4206, DCORR, DCORR, D4210, &
185 IPMGEN, D4209, D4206, MQA2C43, D4206, &
DCORR, MBD2C43H, DCORR, MBD2C43V, D4210, &
D4016, IPM2C21, D4017, D4211, DCORR, &
MBD2C43AH, DCORR, MBD2C43AV, D4212, TV_BV, &
D4108, DHARP, IHA2C21, DHARP, D4021, &
190 IPM2C21A, GON, D4105, MOLLTARG, D4106, &
MQE2M01, D4023, MQE2M02, D4024, IPM2C22, &
D4025, MQA2C22, D4018, MBC2C22H, D4026, &
MQA2C23, D4027, MBC2C23V, D4028, MQA2C24, &
D4029, IPM2C24A, D4030, IHA2C24, D4031, &
195 ATAGGER, D4101, COLA, D4111, FRONTWALL, &
D4112, PH2H00, D4103, COLB, D4104, &
TARGET, D4034, BACKWALL, D4035, ALCOVEEND &
)
USE, HALLB_5_PHOTON
200 DIMAT
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*****
* DIMAD PROGRAM : LAST MODIFIED ON May 27, 2005 *
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CONVERTED FROM ../../OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//HALLB_5_PHOTON.OPT

TOTAL LENGTH OF MACHINE IS: 162.892 METERS

IN THIS RUN THERE ARE :
 124 DISTINCT ELEMENTS. ALLOCATED MXELMD : 125
 196 ELEMENTS IN MACHINE. ALLOCATED MXPOS_D : 198
 36 MATRICES DEFINED. ALLOCATED MAXMAT : 37
 599 VALUES IN ELDAT. ALLOCATED MAXDAT : 599
 0 LCAVs. ALLOCATED MX_LCAV : 1

1
OPERATION LIST ,

MACHINE
 1 2 1 0 1 1 1
 20 0 0 0
 20 0 0 0
 0,

ELEMENT	#	BETAX	ALPHAX	BETAY	ALPHAY	ETAX	ETAPX	ETAY	ETAPY	NUX	NUY	ACC_LEN
\$\$INITIAL\$\$	0	20.0000	0.0000	20.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.000
D4000	1	20.0099	-0.0223	20.0099	-0.0223	0.0000	0.0000	0.0000	0.0000	0.00354	0.00354	0.445
ITV2C00	2	20.0099	-0.0223	20.0099	-0.0223	0.0000	0.0000	0.0000	0.0000	0.00354	0.00354	0.445
D4001	3	20.0320	-0.0400	20.0320	-0.0400	0.0000	0.0000	0.0000	0.0000	0.00636	0.00636	0.800
MLA2C02	4	20.4805	-0.1550	20.4805	-0.1550	0.0000	0.0000	0.0000	0.0000	0.02447	0.02447	3.100
D4002	5	21.0659	-0.2309	21.0659	-0.2309	0.0000	0.0000	0.0000	0.0000	0.03611	0.03611	4.617
MBD2C00V	6	21.0659	-0.2309	21.0659	-0.2309	0.0000	0.0000	0.0000	0.0000	0.03611	0.03611	4.617
D4003	7	23.0372	-0.3897	23.0372	-0.3897	0.0000	0.0000	0.0000	0.0000	0.05914	0.05914	7.794
MBD2C00H	8	23.0372	-0.3897	23.0372	-0.3897	0.0000	0.0000	0.0000	0.0000	0.05914	0.05914	7.794
D4004	9	38.3324	-0.9574	38.3324	-0.9574	0.0000	0.0000	0.0000	0.0000	0.12154	0.12154	19.148
MBC2C01H	10	38.3324	-0.9574	38.3324	-0.9574	0.0000	0.0000	0.0000	0.0000	0.12154	0.12154	19.148
D4005	11	38.7041	-0.9671	38.7041	-0.9671	0.0000	0.0000	0.0000	0.0000	0.12234	0.12234	19.341
IPM2C01	12	38.7041	-0.9671	38.7041	-0.9671	0.0000	0.0000	0.0000	0.0000	0.12234	0.12234	19.341
D4006	13	39.1411	-0.9783	39.1411	-0.9783	0.0000	0.0000	0.0000	0.0000	0.12325	0.12325	19.566
MQA2C01	14	39.5237	-0.2948	39.5237	-1.6967	0.0000	0.0000	0.0000	0.0000	0.12447	0.12447	19.866
D4005	15	39.6386	-0.3001	40.6013	-1.7155	0.0000	0.0000	0.0000	0.0000	0.12524	0.12523	20.059
MBC2C01V	16	39.6386	-0.3001	40.6013	-1.7155	0.0000	0.0000	0.0000	0.0000	0.12524	0.12523	20.059
D4007	17	42.9663	-0.4261	58.3615	-2.1604	0.0000	0.0000	0.0000	0.0000	0.14295	0.14203	24.641
IPM2C02	18	42.9663	-0.4261	58.3615	-2.1604	0.0000	0.0000	0.0000	0.0000	0.14295	0.14203	24.641
D4006	19	43.1591	-0.4323	59.3370	-2.1823	0.0000	0.0000	0.0000	0.0000	0.14378	0.14084	24.866
MQA2C02	20	42.9579	1.1008	61.3033	-4.3952	0.0000	0.0000	0.0000	0.0000	0.14489	0.14163	25.166
D4005	21	42.5346	1.0908	63.0135	-4.4592	0.0000	0.0000	0.0000	0.0000	0.14561	0.14212	25.359
MBC2C02H	22	42.5346	1.0908	63.0135	-4.4592	0.0000	0.0000	0.0000	0.0000	0.14561	0.14212	25.359
D4007	23	33.6187	0.8549	110.8386	-5.9779	0.0000	0.0000	0.0000	0.0000	0.16494	0.15086	29.941
IPM2C03	24	33.6187	0.8549	110.8386	-5.9779	0.0000	0.0000	0.0000	0.0000	0.16494	0.15086	29.941
D4006	25	33.2372	0.8434	113.5412	-6.0524	0.0000	0.0000	0.0000	0.0000	0.16601	0.15117	30.166
MQA2C03	26	33.5563	-1.9157	114.3576	3.3534	0.0000	0.0000	0.0000	0.0000	0.16745	0.15159	30.466
D4008	27	35.0687	-1.9699	111.7632	3.3118	0.0000	0.0000	0.0000	0.0000	0.16925	0.15214	30.855
MBC2C03V	28	35.0687	-1.9699	111.7632	3.3118	0.0000	0.0000	0.0000	0.0000	0.16925	0.15214	30.855
D4009	29	55.0266	-2.5803	84.7718	2.8421	0.0000	0.0000	0.0000	0.0000	0.18517	0.15931	35.241
IPM2C04	30	55.0266	-2.5803	84.7718	2.8421	0.0000	0.0000	0.0000	0.0000	0.18517	0.15931	35.241
D4006	31	56.1930	-2.6116	83.5002	2.8180	0.0000	0.0000	0.0000	0.0000	0.18581	0.15974	35.466
MQA2C04	32	57.5836	-2.0187	82.0914	1.8832	0.0000	0.0000	0.0000	0.0000	0.18665	0.16032	35.766
D4005	33	58.3668	-2.0358	81.3660	1.8725	0.0000	0.0000	0.0000	0.0000	0.18718	0.16069	35.959
MBC2C04H	34	58.3668	-2.0358	81.3660	1.8725	0.0000	0.0000	0.0000	0.0000	0.18718	0.16069	35.959
D4010	35	95.6373	-2.7257	55.4455	1.4390	0.0000	0.0000	0.0000	0.0000	0.20389	0.17928	43.787
IPM2C05	36	95.6373	-2.7257	55.4455	1.4390	0.0000	0.0000	0.0000	0.0000	0.20389	0.17928	43.787
D4011	37	96.7270	-2.7432	54.8743	1.4279	0.0000	0.0000	0.0000	0.0000	0.20422	0.17986	43.986
MQA2C05	38	95.6089	6.4347	55.5909	-3.8394	0.0000	0.0000	0.0000	0.0000	0.20471	0.18073	44.286
D4005	39	93.1397	6.3491	57.0846	-3.8941	0.0000	0.0000	0.0000	0.0000	0.20504	0.18127	44.479
MBC2C05V	40	93.1397	6.3491	57.0846	-3.8941	0.0000	0.0000	0.0000	0.0000	0.20504	0.18127	44.479
D4012	41	91.2221	6.2817	58.2735	-3.9371	0.0000	0.0000	0.0000	0.0000	0.20530	0.18169	44.631
NSA2C05	42	89.3475	6.2152	59.4610	-3.9795	0.0000	0.0000	0.0000	0.0000	0.20556	0.18210	44.781
D4013	43	80.0975	5.8759	65.7157	-4.1962	0.0000	0.0000	0.0000	0.0000	0.20700	0.18404	45.546
MBE2C01	44	69.4013	4.8492	73.7531	-3.8182	0.0000	0.0000	0.112	0.0224	0.20914	0.18633	46.546
D4201	45	64.6403	4.6726	77.6241	-3.9238	0.0000	0.0000	0.0224	0.0224	0.21033	0.18738	47.046
MBE2C03	46	56.1430	3.8477	84.9421	-3.3732	0.0000	0.0000	0.0559	0.0445	0.21297	0.18933	48.046
D4201	47	52.3657	3.7069	88.3518	-3.4461	0.0000	0.0000	0.0782	0.0445	0.21444	0.19025	48.546
MBE2C05	48	45.6350	3.0420	94.5592	-2.7435	0.0000	0.0000	0.1335	0.0660	0.21770	0.19199	49.546
D4201	49	42.6492	2.9296	97.3252	-2.7886	0.0000	0.0000	0.1665	0.0660	0.21951	0.19282	50.046
MBE2C07	50	37.3428	2.3911	102.0902	-1.9627	0.0000	0.0000	0.2429	0.0867	0.22350	0.19442	51.046
D4204	51	16.2172	1.3847	125.5409	-2.2286	0.0000	0.0000	0.7279	0.0867	0.26001	0.20228	56.641
D4206	52	16.0105	1.3712	125.8755	-2.2322	0.0000	0.0000	0.7344	0.0867	0.26075	0.20238	56.716
MQA2C31	53	17.0098	-4.8263	113.4926	41.9501	0.0000	0.0000	0.7190	-0.1882	0.26369	0.20277	57.016
D4206	54	17.7418	-4.9334	107.2874	40.7865	0.0000	0.0000	0.7049	-0.1882	0.26438	0.20288	57.091
D4203	55	25.3483	-5.9331	57.7885	29.9262	0.0000	0.0000	0.5732	-0.1882	0.26964	0.20429	57.791
D4206	56	26.2463	-6.0402	53.3869	28.7625	0.0000	0.0000	0.5591	-0.1882	0.27010	0.20451	57.866
MQA2C32	57	27.0867	3.3378	42.1440	10.0157	0.0000	0.0000	0.5312	0.0008	0.27186	0.20553	58.166
D4206	58	26.5885	3.3042	40.6552	9.8354	0.0000	0.0000	0.5313	0.0008	0.27230	0.20582	58.241
D4205	59	25.6074	3.2369	37.7586	9.4748	0.0000	0.0000	0.5314	0.0008	0.27322	0.20643	58.391
D4206	60	25.1243	3.2033	36.3509	9.2945	0.0000	0.0000	0.5314	0.0008	0.27369	0.20675	58.466
MQA2C32A	61	20.8271	10.6162	34.5503	-3.0838	0.0000	0.0000	0.5598	0.1901	0.27574	0.20812	58.766
D4206	62	19.2654	10.2068	35.0146	-3.1066	0.0000	0.0000	0.5741	0.1901	0.27634	0.20847	58.841
D4203	63	7.6510	6.3852	39.5129	-3.3196	0.0000	0.0000	0.7071	0.1901	0.28552	0.21146	59.541
D4206	64	6.7240	5.9757	40.0125	-3.3424	0.0000	0.0000	0.7214	0.1901	0.28718	0.21176	59.616
MQA2C33	65	4.1584	2.8942	37.5653	11.1918	0.0000	0.0000	0.7372	-0.0858	0.29639	0.21297	59.916
D4206	66	3.7370	2.7251	35.9055	10.9397	0.0000	0.0000	0.7307	-0.0858	0.29941	0.21330	59.991
D4202	67	37.6378	-9.1579	13.9447	-6.7726	0.0000	0.0000	0.2786	-0.0858	0.72613	0.67546	65.261
D4206	68	39.0242	-9.3270	14.9795	-7.0246	0.0000	0.0000	0.2721	-0.0858	0.72644	0.67628	65.336
MQA2C34	69	49.8139	-27.9763	17.5549	-1.2361	0.0000	0.0000	0.2317	-0.1811	0.72754	0.67917	65.636
D4206	70	54.0988	-29.1562	17.7412	-1.2469	0.0000	0.0000	0.2181	-0.1811	0.72777	0.67985	65.711
D4203	71	102.6262	-40.1686	19.5574	-1.3477	0.0000	0.0000	0.0914	-0.1811	0.72927	0.68583	66.411
D4206	72	108.7400	-41.3485	19.7603	-1.3585	0.0000	0.0000	0.0778	-0.1811	0.72938	0.68644	66.486
MQA2C35	73	121.3217	0.9927	22.9573	-9.6943	0.0000	0.0000	0.0268	-0.1617	0.72979	0.68872	66.786
D4206	74	121.1729	0.9915	24.4347	-10.0046	0.0000	0.0000	0.0147	-0.1617	0.72989	0.68923	66.861
D4205	75	120.8758	0.9890	27.5292	-10.6252	0.0000	0.0000	-0.0095	-0.1617	0.73009	0.69015	67.011
D4206	76	120.7276	0.9878	29.1462	-10.9355	0.0000	0.0000	-0.0217	-0.1617	0.73018	0.69057	67.086
MQA2C35A	77	107.1089	42.6938	39.9981	-26.5829	0.0000	0.0000	-0.0723	-0.1791	0.73060	0.69199	67.386
D4206	78	100.8006	41.4168	44.0850	-27.9098	0.0000	0.0000	-0.0857	-0.1791	0.73071	0.69228	67.461
D4203	79	51.1604	29.4978	91.8279	-40.2943	0.0000	0.0000	-0.2111	-0.1791	0.73226	0.69403	68.161
D4206	80	46.8315	28.2207	97.9716	-41.6212							

MQA2C36	81	35.6569	10.4134	112.0407	-3.5053	0.0000	0.0000	-0.2648	-0.0866	0.73370	0.69460	68.536
D4206	82	34.1122	10.1832	112.5672	-3.5142	0.0000	0.0000	-0.2713	-0.0866	0.73404	0.69471	68.611
D4202	83	12.0222	-5.9915	152.9010	-4.1392	0.0000	0.0000	-0.7275	-0.0866	1.19214	0.70110	73.881
D4206	84	12.9382	-6.2217	153.5226	-4.1481	0.0000	0.0000	-0.7340	-0.0866	1.19310	0.70118	73.956
MQA2C37	85	18.7539	-13.8850	139.2179	50.0301	0.0000	0.0000	-0.7186	0.1882	1.19622	0.70150	74.256
D4206	86	20.8948	-14.6600	131.8145	48.6812	0.0000	0.0000	-0.7045	0.1882	1.19682	0.70159	74.331
D4203	87	46.4822	-21.8935	72.4742	36.0908	0.0000	0.0000	-0.5728	0.1882	1.20040	0.70273	75.031
D4206	88	49.8243	-22.6685	67.1618	34.7418	0.0000	0.0000	-0.5586	0.1882	1.20065	0.70290	75.106
MQA2C38	89	58.3608	-4.7872	53.7833	11.3975	0.0000	0.0000	-0.5307	-0.0001	1.20152	0.70371	75.406
D4206	90	59.0812	-4.8179	52.0874	11.2149	0.0000	0.0000	-0.5307	-0.0001	1.20172	0.70393	75.481
D4205	91	60.5358	-4.8794	48.7777	10.8498	0.0000	0.0000	-0.5307	-0.0001	1.20212	0.70441	75.631
D4206	92	61.2700	-4.9101	47.1639	10.6673	0.0000	0.0000	-0.5307	-0.0001	1.20231	0.70466	75.706
MQA2C38A	93	57.8606	15.8758	45.6435	-5.4237	0.0000	0.0000	-0.5588	-0.1885	1.20310	0.70570	76.006
D4206	94	55.5038	15.5478	46.4608	-5.4737	0.0000	0.0000	-0.5729	-0.1885	1.20331	0.70596	76.081
D4203	95	35.8797	12.4865	54.4505	-5.9402	0.0000	0.0000	-0.7049	-0.1885	1.20581	0.70818	76.781
D4206	96	34.0314	12.1585	55.3453	-5.9902	0.0000	0.0000	-0.7190	-0.1885	1.20615	0.70840	76.856
MQA2C39	97	30.5604	-0.1578	52.7358	14.3597	0.0000	0.0000	-0.7344	0.0867	1.20766	0.70926	77.156
D4206	98	30.5843	-0.1603	50.6040	14.0650	0.0000	0.0000	-0.7279	0.0867	1.20805	0.70949	77.231
D4204	99	33.4283	-0.3480	16.2109	-7.9179	0.0000	0.0000	-0.2430	0.0867	1.23604	1.17820	82.826
MBE2C09	100	34.4450	-0.6714	35.7225	-11.5376	0.0000	0.0000	-0.1666	0.0660	1.24074	1.18481	83.826
D4201	101	35.1269	-0.6925	48.1988	-13.4148	0.0000	0.0000	-0.1335	0.0660	1.24303	1.18673	84.326
MBE2C11	102	36.8596	-1.0448	78.1781	-16.4784	0.0000	0.0000	-0.0782	0.0445	1.24746	1.18931	85.326
D4201	103	37.9186	-1.0732	95.5280	-18.2214	0.0000	0.0000	-0.0560	0.0445	1.24959	1.19024	85.826
MBE2C13	104	40.4553	-1.4704	134.3725	-20.5115	0.0000	0.0000	-0.0225	0.0224	1.25366	1.19164	86.826
D4201	105	41.9452	-1.5095	155.6686	-22.0807	0.0000	0.0000	-0.0113	0.0224	1.25559	1.19219	87.326
MBE2C15	106	45.4151	-1.9698	201.3018	-23.4214	0.0000	0.0000	0.0000	0.0000	1.25924	1.19309	88.326
D4208	107	48.2458	-2.0455	235.6829	-25.3461	0.0000	0.0000	0.0000	0.0000	1.26164	1.19360	89.031
IPMGEN	108	48.2458	-2.0455	235.6829	-25.3461	0.0000	0.0000	0.0000	0.0000	1.26164	1.19360	89.031
D4209	109	49.1718	-2.0697	247.2269	-25.9604	0.0000	0.0000	0.0000	0.0000	1.26238	1.19375	89.256
D4206	110	49.4828	-2.0778	251.1363	-26.1651	0.0000	0.0000	-0.0001	0.0000	1.26262	1.19380	89.331
MQA2C40	111	52.7553	-8.9738	256.8657	-7.3196	0.0000	0.0000	-0.0001	0.0000	1.26356	1.19398	89.631
D4206	112	54.1100	-9.0897	255.7689	7.3037	0.0000	0.0000	-0.0001	0.0000	1.26378	1.19403	89.706
DCORR	113	57.6762	-9.3879	252.9576	7.2627	0.0000	0.0000	0.0000	0.0000	1.26433	1.19415	89.899
DCORR	114	61.3575	-9.6862	250.1621	7.2217	0.0000	0.0000	0.0000	0.0000	1.26485	1.19427	90.092
D4210	115	64.5761	-9.9396	247.7991	7.1868	0.0000	0.0000	0.0000	0.0000	1.26526	1.19438	90.256
IPMGEN	116	64.5761	-9.9396	247.7991	7.1868	0.0000	0.0000	0.0000	0.0000	1.26526	1.19438	90.256
D4209	117	69.1272	-10.2874	244.5758	7.1390	0.0000	0.0000	0.0000	0.0000	1.26580	1.19452	90.481
D4206	118	70.6790	-10.4033	243.5061	7.1231	0.0000	0.0000	0.0000	0.0000	1.26597	1.19457	90.556
MQA2C41	119	80.2894	-22.0841	229.1610	40.0143	0.0000	0.0000	0.0000	0.0000	1.26661	1.19477	90.856
D4206	120	83.6362	-22.5406	223.1982	39.4899	0.0000	0.0000	0.0000	0.0000	1.26675	1.19483	90.931
DCORR	121	92.5636	-23.7153	208.2155	38.1406	0.0000	0.0000	0.0000	0.0000	1.26710	1.19497	91.124
DCORR	122	101.9445	-24.8901	193.7537	36.7912	0.0000	0.0000	0.0000	0.0000	1.26742	1.19512	91.317
D4210	123	110.2721	-25.8883	181.8742	35.6447	0.0000	0.0000	0.0000	0.0000	1.26766	1.19526	91.481
IPMGEN	124	110.2721	-25.8883	181.8742	35.6447	0.0000	0.0000	0.0000	0.0000	1.26766	1.19526	91.481
D4209	125	122.2300	-27.2579	166.1880	34.0716	0.0000	0.0000	0.0000	0.0000	1.26797	1.19547	91.706
D4206	126	126.3529	-27.7144	161.1166	33.5473	0.0000	0.0000	0.0000	0.0000	1.26807	1.19554	91.781
MQA2C42	127	138.5447	-12.4270	147.1074	13.7192	0.0000	0.0000	0.0000	0.0000	1.26843	1.19585	92.081
D4206	128	140.4150	-12.5111	145.0567	13.6227	0.0000	0.0000	0.0000	0.0000	1.26851	1.19593	92.156
DCORR	129	145.2861	-12.7277	139.8463	13.3745	0.0000	0.0000	0.0000	0.0000	1.26873	1.19615	92.349
DCORR	130	150.2408	-12.9442	134.7316	13.1263	0.0000	0.0000	0.0000	0.0000	1.26894	1.19637	92.542
D4210	131	154.5167	-13.1282	130.4608	12.9153	0.0000	0.0000	0.0000	0.0000	1.26911	1.19657	92.706
IPMGEN	132	154.5167	-13.1282	130.4608	12.9153	0.0000	0.0000	0.0000	0.0000	1.26911	1.19657	92.706
D4209	133	160.4811	-13.3806	124.7140	12.6259	0.0000	0.0000	0.0000	0.0000	1.26933	1.19685	92.931
D4206	134	162.4945	-13.4647	122.8274	12.5294	0.0000	0.0000	0.0000	0.0000	1.26941	1.19695	93.006
MQA2C43	135	165.6909	2.9168	118.9940	0.3761	0.0000	0.0000	0.0000	0.0000	1.26970	1.19734	93.306
D4206	136	165.2537	2.9125	118.9376	0.3753	0.0000	0.0000	0.0000	0.0000	1.26977	1.19744	93.381
DCORR	137	164.1316	2.9015	118.7931	0.3735	0.0000	0.0000	0.0000	0.0000	1.26996	1.19770	93.574
MBD2C43H	138	164.1316	2.9015	118.7931	0.3735	0.0000	0.0000	0.0000	0.0000	1.26996	1.19770	93.574
DCORR	139	163.0138	2.8904	118.6493	0.3716	0.0000	0.0000	0.0000	0.0000	1.27014	1.19796	93.767
MBD2C43V	140	163.0138	2.8904	118.6493	0.3716	0.0000	0.0000	0.0000	0.0000	1.27014	1.19796	93.767
D4210	141	162.0673	2.8810	118.5276	0.3701	0.0000	0.0000	0.0000	0.0000	1.27031	1.19818	93.931
D4016	142	130.3999	2.5461	114.5355	0.3141	0.0000	0.0000	0.0000	0.0000	1.27670	1.20615	99.766
IPM2C21	143	130.3999	2.5461	114.5355	0.3141	0.0000	0.0000	0.0000	0.0000	1.27670	1.20615	99.766
D4017	144	129.2604	2.5333	114.3951	0.3119	0.0000	0.0000	0.0000	0.0000	1.27697	1.20647	99.990
D4211	145	122.2797	2.4529	113.5404	0.2985	0.0000	0.0000	0.0000	0.0000	1.27874	1.20842	101.390
DCORR	146	121.3350	2.4419	113.4255	0.2967	0.0000	0.0000	0.0000	0.0000	1.27899	1.20869	101.583
MBD2C43A	147	121.3350	2.4419	113.4255	0.2967	0.0000	0.0000	0.0000	0.0000	1.27899	1.20869	101.583
DCORR	148	120.3946	2.4308	113.3114	0.2948	0.0000	0.0000	0.0000	0.0000	1.27925	1.20896	101.776
MBD2C43A	149	120.3946	2.4308	113.3114	0.2948	0.0000	0.0000	0.0000	0.0000	1.27925	1.20896	101.776
D4212	150	119.9090	2.4250	113.2525	0.2939	0.0000	0.0000	0.0000	0.0000	1.27938	1.20910	101.876
TV_BV	151	118.4591	2.4078	113.0771	0.2910	0.0000	0.0000	0.0000	0.0000	1.27978	1.20953	102.176
D4108	152	118.0262	2.4027	113.0248	0.2901	0.0000	0.0000	0.0000	0.0000	1.27990	1.20965	102.266
DHARP	153	117.3067	2.3941	112.9379	0.2887	0.0000	0.0000	0.0000	0.0000	1.28011	1.20986	102.416
IHA2C21	154	117.3067	2.3941	112.9379	0.2887	0.0000	0.0000	0.0000	0.0000	1.28011	1.20986	102.416
DHARP	155	116.5897	2.3855	112.8516	0.2872	0.0000	0.0000	0.0000	0.0000	1.28031	1.21008	102.566
D4021	156	116.0418	2.3789	112.7856	0.2861	0.0000	0.0000	0.0000	0.0000	1.28047	1.21024	102.681
IPM2C21A	157	111.8064	2.3272	112.2784	0.2775	0.0000	0.0000	0.0000	0.0000	1.28172	1.21151	103.581
GON	158	108.5764	2.2870	111.8946	0.2708	0.0000	0.0000	0.0000	0.0000	1.28274	1.21250	104.281
D4105	159	107.2093	2.2698	111.7329	0.2679	0.0000	0.0000	0.0000	0.0000	1.28318	1.21293	104.581
MOLLTARG	160	104.9539	2.2411	111.4674	0.2631	0.0000	0.0000	0.0000	0.0000	1.28393	1.21364	105.081
D4106	161	100.9663	2.1895	111.0016	0.2545	0.0000	0.0000	0.0000	0.0000	1.28532	1.21493	105.981
MQE2M01	162	96.6447	2.1321	110.5022	0.2449	0.0000	0.0000	0.0000	0.0000	1.28693	1.21637	106.981
D4023	163	92.4379	2.0747</									

D4111	185	34.4250	0.9876	104.5497	0.0536	0.0000	0.0000	0.0000	0.0000	1.34312	1.24607	126.925
FRONTWAL	186	34.4250	0.9876	104.5497	0.0536	0.0000	0.0000	0.0000	0.0000	1.34312	1.24607	126.925
D4112	187	32.6637	0.9351	104.4596	0.0448	0.0000	0.0000	0.0000	0.0000	1.34747	1.24747	127.841
PH2H00	188	32.6637	0.9351	104.4596	0.0448	0.0000	0.0000	0.0000	0.0000	1.34747	1.24747	127.841
D4103	189	26.3285	0.7147	104.2570	0.0080	0.0000	0.0000	0.0000	0.0000	1.36837	1.25333	131.681
COLB	190	25.7659	0.6918	104.2522	0.0041	0.0000	0.0000	0.0000	0.0000	1.37081	1.25394	132.081
D4104	191	17.4265	-0.0020	105.5546	-0.1118	0.0000	0.0000	0.0000	0.0000	1.46745	1.27232	144.171
TARGET	192	17.4265	-0.0020	105.5546	-0.1118	0.0000	0.0000	0.0000	0.0000	1.46745	1.27232	144.171
D4034	193	26.6177	-0.7262	109.9059	-0.2329	0.0000	0.0000	0.0001	0.0000	1.56710	1.29101	156.792
BACKWALL	194	26.6177	-0.7262	109.9059	-0.2329	0.0000	0.0000	0.0001	0.0000	1.56710	1.29101	156.792
D4035	195	37.6131	-1.0763	113.1044	-0.2914	0.0000	0.0000	0.0001	0.0000	1.59798	1.29972	162.892
ALCOVEEN	196	37.6131	-1.0763	113.1044	-0.2914	0.0000	0.0000	0.0001	0.0000	1.59798	1.29972	162.892

MAXIMUM LATTICE FUNCTIONS :
 BETA X = 0.1656908969E+03 BETA Y = 0.2568656753E+03
 ETA X = 0.6391395724E-14 ETA Y = 0.7371692804E+00

1
 OPERATION LIST ,

MATRIX

1 -1,

AFTER :ALCOVEEN ELEMENT #: 196

 * TRANSFORMATION MATRIX *

FIRST ORDER MATRIX

-	0.1119614E+01	-0.1583819E+02	0.2880494E-13	0.1449641E-11	0.0000000E+00	0.2898199E-15
-	0.1098327E-01	-0.1048536E+01	0.1286973E-15	0.6665030E-14	0.0000000E+00	0.2484694E-15
-	0.1398071E-13	0.2308577E-11	-0.7309420E+00	0.4525900E+02	0.0000000E+00	0.5873895E-04
-	0.1830108E-15	0.3060756E-13	-0.2189099E-01	-0.1263575E-01	0.0000000E+00	0.1293391E-05
-	0.2749993E-15	-0.3630230E-14	0.3404599E-06	0.5927977E-04	0.1000000E+01	0.1563342E-01
-	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	0.1000000E+01

HORIZONTAL MOVEMENT ANALYSIS

COMPACTION FACTOR = 0.9597409E-04 GAMMA TR = 0.1020759E+03

MOVEMENT IS UNSTABLE

HALF-TRACE = -0.10840748126327E+01
 EIGENVALUE1 = -0.66548408246231E+00
 WITH EIGENVECTOR :
 X = 0.99958918010821E+00 XP = -0.28661315576713E-01
 EIGENVALUE2 = -0.15026655428030E+01
 WITH EIGENVECTOR :
 X = 0.99970766344957E+00 XP = 0.24178247252546E-01

VERTICAL MOVEMENT ANALYSIS

COS(MU)=-0.37178887589455E+00 NU = 0.31062773407517E+00
 ETA = 0.43016355515576E-04 ETAP = 0.34733140328246E-06
 ALPHA =-0.38688616103449E+00 BETA = 0.48753799060401E+02

1
 OPERATION LIST ,

HARDWARE

11.023 6314.18 -80.6 100 -258.315 180 0.0 0 1 0;

VALUES ARE FOR ENERGY : 0.110E+02 GEV

THE LENGTHS ARE MEASURED IN METERS ,THE ANGLES IN DEGREES

THE XYZ COORDINATES,AZIMUTH,ELEVATION AND ROLL ANGLES ARE :

#	NAME	S	X	Y	Z	THETA	PHI	PSI
1	D4000	6314.6253900000	-80.6000000000	100.0000000000	-258.7603900000	-180.0000000000	0.0000000000	0.0000000000
2	ITV2C00	6314.6253900000	-80.6000000000	100.0000000000	-258.7603900000	-180.0000000000	0.0000000000	0.0000000000
3	D4001	6314.9798900000	-80.6000000000	100.0000000000	-259.1148900000	-180.0000000000	0.0000000000	0.0000000000
4	MLA2C02	6317.2798900000	-80.6000000000	100.0000000000	-261.4148900000	-180.0000000000	0.0000000000	0.0000000000
5	D4002	6318.7970900000	-80.6000000000	100.0000000000	-262.9320900000	-180.0000000000	0.0000000000	0.0000000000
6	MBD2C00V	6318.7970900100	-80.6000000000	100.0000000000	-262.9320900100	-180.0000000000	0.0000000000	0.0000000000
7	D4003	6321.9738600100	-80.6000000000	100.0000000000	-266.1088600100	-180.0000000000	0.0000000000	0.0000000000
8	MBD2C00H	6321.9738600200	-80.6000000000	100.0000000000	-266.1088600200	-180.0000000000	0.0000000000	0.0000000000
9	D4004	6333.3280600200	-80.6000000000	100.0000000000	-277.4630600200	-180.0000000000	0.0000000000	0.0000000000
10	MBC2C01H	6333.3280600300	-80.6000000000	100.0000000000	-277.4630600300	-180.0000000000	0.0000000000	0.0000000000
11	D4005	6333.5212100300	-80.6000000000	100.0000000000	-277.6562100300	-180.0000000000	0.0000000000	0.0000000000
12	IPM2C01	6333.5212100300	-80.6000000000	100.0000000000	-277.6562100300	-180.0000000000	0.0000000000	0.0000000000
13	D4006	6333.7458600300	-80.6000000000	100.0000000000	-278.8808600300	-180.0000000000	0.0000000000	0.0000000000
14	MQA2C01	6334.0458600300	-80.6000000000	100.0000000000	-278.1808600300	-180.0000000000	0.0000000000	0.0000000000
15	D4005	6334.2390100300	-80.6000000000	100.0000000000	-278.3740100300	-180.0000000000	0.0000000000	0.0000000000
16	MBC2C01V	6334.2390100300	-80.6000000000	100.0000000000	-278.3740100300	-180.0000000000	0.0000000000	0.0000000000
17	D4007	6338.8212100300	-80.6000000000	100.0000000000	-282.9562100300	-180.0000000000	0.0000000000	0.0000000000

18	IPM2C02	6338.8212100300	-80.6000000000	100.0000000000	-282.9562100300	-180.0000000000	0.0000000000	0.0000000000
19	D4006	6339.0458600300	-80.6000000000	100.0000000000	-283.1808600300	-180.0000000000	0.0000000000	0.0000000000
20	MQA2C02	6339.3458600300	-80.6000000000	100.0000000000	-283.4808600300	-180.0000000000	0.0000000000	0.0000000000
21	D4005	6339.5390100300	-80.6000000000	100.0000000000	-283.6740100300	-180.0000000000	0.0000000000	0.0000000000
22	MBC2C02H	6339.5390100400	-80.6000000000	100.0000000000	-283.6740100400	-180.0000000000	0.0000000000	0.0000000000
23	D4007	6344.1212100400	-80.6000000000	100.0000000000	-288.2562100400	-180.0000000000	0.0000000000	0.0000000000
24	IPM2C03	6344.1212100400	-80.6000000000	100.0000000000	-288.2562100400	-180.0000000000	0.0000000000	0.0000000000
25	D4006	6344.3458600400	-80.6000000000	100.0000000000	-288.4808600400	-180.0000000000	0.0000000000	0.0000000000
26	MQA2C03	6344.6458600400	-80.6000000000	100.0000000000	-288.7808600400	-180.0000000000	0.0000000000	0.0000000000
27	D4008	6345.0351000400	-80.6000000000	100.0000000000	-289.1701000400	-180.0000000000	0.0000000000	0.0000000000
28	MBC2C03V	6345.0351000500	-80.6000000000	100.0000000000	-289.1701000500	-180.0000000000	0.0000000000	0.0000000000
29	D4009	6349.4212100500	-80.6000000000	100.0000000000	-293.5562100500	-180.0000000000	0.0000000000	0.0000000000
30	IPM2C04	6349.4212100500	-80.6000000000	100.0000000000	-293.5562100500	-180.0000000000	0.0000000000	0.0000000000
31	D4006	6349.6458600500	-80.6000000000	100.0000000000	-293.7808600500	-180.0000000000	0.0000000000	0.0000000000
32	MQA2C04	6349.9458600500	-80.6000000000	100.0000000000	-294.0808600500	-180.0000000000	0.0000000000	0.0000000000
33	D4005	6350.1390100500	-80.6000000000	100.0000000000	-294.2740100500	-180.0000000000	0.0000000000	0.0000000000
34	MBC2C04H	6350.1390100600	-80.6000000000	100.0000000000	-294.2740100600	-180.0000000000	0.0000000000	0.0000000000
35	D4010	6357.9666100600	-80.6000000000	100.0000000000	-302.1016100600	-180.0000000000	0.0000000000	0.0000000000
36	IPM2C05	6357.9666100600	-80.6000000000	100.0000000000	-302.1016100600	-180.0000000000	0.0000000000	0.0000000000
37	D4011	6358.1658600600	-80.6000000000	100.0000000000	-302.3008600600	-180.0000000000	0.0000000000	0.0000000000
38	MQA2C05	6358.4658600600	-80.6000000000	100.0000000000	-302.6008600600	-180.0000000000	0.0000000000	0.0000000000
39	D4005	6358.6590100600	-80.6000000000	100.0000000000	-302.7940100600	-180.0000000000	0.0000000000	0.0000000000
40	MBC2C05V	6358.6590100700	-80.6000000000	100.0000000000	-302.7940100700	-180.0000000000	0.0000000000	0.0000000000
41	D4012	6358.8108300700	-80.6000000000	100.0000000000	-302.9458300700	-180.0000000000	0.0000000000	0.0000000000
42	MSA2C05	6358.9608300700	-80.6000000000	100.0000000000	-303.0958300700	-180.0000000000	0.0000000000	0.0000000000
43	D4013	6359.7258600700	-80.6000000000	100.0000000000	-303.8608600700	-180.0000000000	0.0000000000	0.0000000000
44	MBE2C01	6360.7258600700	-80.6000000000	100.0112233921	-304.8607760887	-180.0000000000	1.2861600000	0.0000000000
45	D4201	6361.2258600700	-80.6000000000	100.0224463128	-305.3606501189	-180.0000000000	1.2861600000	0.0000000000
46	MBE2C03	6362.2258600700	-80.6000000000	100.0561108337	-306.3600623006	-180.0000000000	2.5723200000	0.0000000000
47	D4201	6362.7258600700	-80.6000000000	100.0785510203	-306.8595584848	-180.0000000000	2.5723200000	0.0000000000
48	MBE2C05	6363.7258600700	-80.6000000000	100.1346397072	-307.8579632465	-180.0000000000	3.8584800000	0.0000000000
49	D4201	6364.2258600700	-80.6000000000	100.1682858523	-308.3568298990	-180.0000000000	3.8584800000	0.0000000000
50	MBE2C07	6365.2258600700	-80.6000000000	100.2467704434	-309.3537241652	-180.0000000000	5.1446400000	0.0000000000
51	D4204	6370.8208600700	-80.6000000000	100.7484757737	-314.9261847314	-180.0000000000	5.1446400000	0.0000000000
52	D4206	6370.8958600700	-80.6000000000	100.7552010462	-315.0008825942	-180.0000000000	5.1446400000	0.0000000000
53	MQA2C31	6371.1958600700	-80.6000000000	100.7821021363	-315.2996740454	-180.0000000000	5.1446400000	0.0000000000
54	D4206	6371.2708600700	-80.6000000000	100.7888274088	-315.3743719083	-180.0000000000	5.1446400000	0.0000000000
55	D4203	6371.9708600700	-80.6000000000	100.8515966190	-316.0715519612	-180.0000000000	5.1446400000	0.0000000000
56	D4206	6372.0458600700	-80.6000000000	100.8583218915	-316.1462498240	-180.0000000000	5.1446400000	0.0000000000
57	MQA2C32	6372.3458600700	-80.6000000000	100.8852229816	-316.4450412753	-180.0000000000	5.1446400000	0.0000000000
58	D4206	6372.4208600700	-80.6000000000	100.8919482542	-316.5197391381	-180.0000000000	5.1446400000	0.0000000000
59	D4205	6372.5708600700	-80.6000000000	100.9053987992	-316.6691348638	-180.0000000000	5.1446400000	0.0000000000
60	D4206	6372.6458600700	-80.6000000000	100.9121240717	-316.7438327266	-180.0000000000	5.1446400000	0.0000000000
61	MQA2C32A	6372.9458600700	-80.6000000000	100.9390251618	-317.0426241778	-180.0000000000	5.1446400000	0.0000000000
62	D4206	6373.0208600700	-80.6000000000	100.9457504344	-317.1173220407	-180.0000000000	5.1446400000	0.0000000000
63	D4203	6373.7208600700	-80.6000000000	101.0085196446	-317.8745020936	-180.0000000000	5.1446400000	0.0000000000
64	D4206	6373.7958600700	-80.6000000000	101.0152449171	-317.8891999564	-180.0000000000	5.1446400000	0.0000000000
65	MQA2C33	6374.0958600700	-80.6000000000	101.0421460072	-318.1879914077	-180.0000000000	5.1446400000	0.0000000000
66	D4206	6374.1708600700	-80.6000000000	101.0488712797	-318.2626892705	-180.0000000000	5.1446400000	0.0000000000
67	D4202	6379.4408600700	-80.6000000000	101.5214337624	-323.5114590978	-180.0000000000	5.1446400000	0.0000000000
68	D4206	6379.5158600700	-80.6000000000	101.5281590349	-323.5861569606	-180.0000000000	5.1446400000	0.0000000000
69	MQA2C34	6379.8158600700	-80.6000000000	101.5550601250	-323.8849484119	-180.0000000000	5.1446400000	0.0000000000
70	D4206	6379.8908600700	-80.6000000000	101.5617853976	-323.9596462747	-180.0000000000	5.1446400000	0.0000000000
71	D4203	6380.5908600700	-80.6000000000	101.6245546078	-324.6568263277	-180.0000000000	5.1446400000	0.0000000000
72	D4206	6380.6658600700	-80.6000000000	101.6312798803	-324.7315241905	-180.0000000000	5.1446400000	0.0000000000
73	MQA2C35	6380.9658600700	-80.6000000000	101.6581809704	-325.0303156418	-180.0000000000	5.1446400000	0.0000000000
74	D4206	6381.0408600700	-80.6000000000	101.6649062429	-325.1050135046	-180.0000000000	5.1446400000	0.0000000000
75	D4205	6381.2190860700	-80.6000000000	101.6783567880	-325.2544092302	-180.0000000000	5.1446400000	0.0000000000
76	D4206	6381.2658600700	-80.6000000000	101.6850820605	-325.3291070931	-180.0000000000	5.1446400000	0.0000000000
77	MQA2C35A	6381.5258600700	-80.6000000000	101.7119831506	-325.6278985453	-180.0000000000	5.1446400000	0.0000000000
78	D4206	6381.6408600700	-80.6000000000	101.7187084231	-325.7025964071	-180.0000000000	5.1446400000	0.0000000000
79	D4203	6382.8158600700	-80.6000000000	101.7814776333	-326.3997764601	-180.0000000000	5.1446400000	0.0000000000
80	D4206	6382.4158600700	-80.6000000000	101.7882029059	-326.4744743229	-180.0000000000	5.1446400000	0.0000000000
81	MQA2C36	6382.7158600700	-80.6000000000	101.8151039960	-326.7732657742	-180.0000000000	5.1446400000	0.0000000000
82	D4206	6382.7908600700	-80.6000000000	101.8218292685	-326.8479636370	-180.0000000000	5.1446400000	0.0000000000
83	D4202	6388.0608600700	-80.6000000000	102.2943917512	-332.0967334643	-180.0000000000	5.1446400000	0.0000000000
84	D4206	6388.1358600700	-80.6000000000	102.3011170237	-332.1714313271	-180.0000000000	5.1446400000	0.0000000000
85	MQA2C37	6388.4358600700	-80.6000000000	102.3280181138	-332.4702227784	-180.0000000000	5.1446400000	0.0000000000
86	D4206	6388.5108600700	-80.6000000000	102.3347433863	-332.5449206412	-180.0000000000	5.1446400000	0.0000000000
87	D4203	6389.2108600700	-80.6000000000	102.3975125965	-333.2421006942	-180.0000000000	5.1446400000	0.0000000000
88	D4206	6389.2858600700	-80.6000000000	102.4042378691	-333.3167985570	-180.0000000000	5.1446400000	0.0000000000
89	MQA2C38	6389.5858600700	-80.6000000000	102.4311389592	-333.6155900083	-180.0000000000	5.1446400000	0.0000000000
90	D4206	6389.6608600700	-80.6000000000	102.4378642317	-333.6902878711	-180.0000000000	5.1446400000	0.0000000000
91	D4205	6389.8108600700	-80.6000000000	102.4513147767	-333.8396835967	-180.0000000000	5.1446400000	0.0000000000
92	D4206	6389.8858600700	-80.6000000000	102.4580400493	-333.9143814595	-180.0000000000	5.1446400000	0.0000000000
93	MQA2C38A	6390.1858600700	-80.6000000000	102.4849411394	-334.2131729108	-180.0000000000	5.1446400000	0.0000000000
94	D4206	6390.2608600700	-80.6000000000	102.4916664119	-334.2878707736	-180.0000000000	5.1446400000	0.0000000000
95	D4203	6390.9608600700	-80.6000000000	102.5544356221	-334.9850508266	-180.0000000000	5.1446400000	0.0000000000
96	D4206	6391.0358600700	-80.6000000000	102.5611608946	-335.0597486894	-180.0000000000	5.1446400000	0.0000000000
97	MQA2C39	6391.3358600700	-80.6000000000	102.5880619847	-335.3585401407	-180.0000000000	5.1446400000	0.0000000000
98	D4206	6391.4108600700	-80.6000000000	102.5947872573	-335.4332380035	-180.0000000000	5.1446400000	0.0000000000
99	D4204	6397.0058600700	-80.6000000000	103.0964925875	-341			

122	DCORR	6405.4968600700	-80.6000000000	103.3432630309	-349.4895626648	-180.0000000000	0.0000000000	0.0000000000
123	D4210	6405.6608600700	-80.6000000000	103.3432630309	-349.6535626648	-180.0000000000	0.0000000000	0.0000000000
124	IPMGEN	6405.6608600700	-80.6000000000	103.3432630309	-349.6535626648	-180.0000000000	0.0000000000	0.0000000000
125	D4209	6405.8858600700	-80.6000000000	103.3432630309	-349.8785626648	-180.0000000000	0.0000000000	0.0000000000
126	D4206	6405.9608600700	-80.6000000000	103.3432630309	-349.9535626648	-180.0000000000	0.0000000000	0.0000000000
127	MQA2C42	6406.2608600700	-80.6000000000	103.3432630309	-350.2535626648	-180.0000000000	0.0000000000	0.0000000000
128	D4206	6406.3358600700	-80.6000000000	103.3432630309	-350.3285626648	-180.0000000000	0.0000000000	0.0000000000
129	DCORR	6406.5288600700	-80.6000000000	103.3432630309	-350.5215626648	-180.0000000000	0.0000000000	0.0000000000
130	DCORR	6406.7218600700	-80.6000000000	103.3432630309	-350.7145626648	-180.0000000000	0.0000000000	0.0000000000
131	D4210	6406.8858600700	-80.6000000000	103.3432630309	-350.8785626648	-180.0000000000	0.0000000000	0.0000000000
132	IPMGEN	6406.8858600700	-80.6000000000	103.3432630309	-350.8785626648	-180.0000000000	0.0000000000	0.0000000000
133	D4209	6407.1108600700	-80.6000000000	103.3432630309	-351.1035626648	-180.0000000000	0.0000000000	0.0000000000
134	D4206	6407.1858600700	-80.6000000000	103.3432630309	-351.1785626648	-180.0000000000	0.0000000000	0.0000000000
135	MQA2C43	6407.4858600700	-80.6000000000	103.3432630309	-351.4785626648	-180.0000000000	0.0000000000	0.0000000000
136	D4206	6407.5608600700	-80.6000000000	103.3432630309	-351.5535626648	-180.0000000000	0.0000000000	0.0000000000
137	DCORR	6407.7538600700	-80.6000000000	103.3432630309	-351.7465626648	-180.0000000000	0.0000000000	0.0000000000
138	MBD2C43H	6407.7538600800	-80.6000000000	103.3432630309	-351.7465626748	-180.0000000000	0.0000000000	0.0000000000
139	DCORR	6407.9468600800	-80.6000000000	103.3432630309	-351.9395626748	-180.0000000000	0.0000000000	0.0000000000
140	MBD2C43V	6407.9468600900	-80.6000000000	103.3432630309	-351.9395626848	-180.0000000000	0.0000000000	0.0000000000
141	D4210	6408.1108600900	-80.6000000000	103.3432630309	-352.1035626848	-180.0000000000	0.0000000000	0.0000000000
142	D4016	6413.9458700900	-80.6000000000	103.3432630309	-359.9385726848	-180.0000000000	0.0000000000	0.0000000000
143	IPM2C21	6413.9458700900	-80.6000000000	103.3432630309	-359.9385726848	-180.0000000000	0.0000000000	0.0000000000
144	D4017	6414.1702100900	-80.6000000000	103.3432630309	-358.1629126848	-180.0000000000	0.0000000000	0.0000000000
145	D4211	6415.5702100900	-80.6000000000	103.3432630309	-359.5629126848	-180.0000000000	0.0000000000	0.0000000000
146	DCORR	6415.7632100900	-80.6000000000	103.3432630309	-359.7559126848	-180.0000000000	0.0000000000	0.0000000000
147	MBD2C43A	6415.7632101000	-80.6000000000	103.3432630309	-359.7559126948	-180.0000000000	0.0000000000	0.0000000000
148	DCORR	6415.9562101000	-80.6000000000	103.3432630309	-359.9489126948	-180.0000000000	0.0000000000	0.0000000000
149	MBD2C43A	6415.9562101100	-80.6000000000	103.3432630309	-359.9489127048	-180.0000000000	0.0000000000	0.0000000000
150	D4212	6416.0562101100	-80.6000000000	103.3432630309	-360.0489127048	-180.0000000000	0.0000000000	0.0000000000
151	TV_BV	6416.3562101100	-80.6000000000	103.3432630309	-360.3489127048	-180.0000000000	0.0000000000	0.0000000000
152	D4108	6416.4462101100	-80.6000000000	103.3432630309	-360.4389127048	-180.0000000000	0.0000000000	0.0000000000
153	DHARP	6416.5962101100	-80.6000000000	103.3432630309	-360.5889127048	-180.0000000000	0.0000000000	0.0000000000
154	IHA2C21	6416.5962101100	-80.6000000000	103.3432630309	-360.5889127048	-180.0000000000	0.0000000000	0.0000000000
155	DHARP	6416.7462101100	-80.6000000000	103.3432630309	-360.7389127048	-180.0000000000	0.0000000000	0.0000000000
156	D4021	6416.8612101100	-80.6000000000	103.3432630309	-360.8539127048	-180.0000000000	0.0000000000	0.0000000000
157	IPM2C21A	6417.7612101100	-80.6000000000	103.3432630309	-361.7539127048	-180.0000000000	0.0000000000	0.0000000000
158	GON	6418.4612101100	-80.6000000000	103.3432630309	-362.4539127048	-180.0000000000	0.0000000000	0.0000000000
159	D4105	6418.7612101100	-80.6000000000	103.3432630309	-362.7539127048	-180.0000000000	0.0000000000	0.0000000000
160	MOLLTARG	6419.2612101100	-80.6000000000	103.3432630309	-363.2539127048	-180.0000000000	0.0000000000	0.0000000000
161	D4106	6420.1612101100	-80.6000000000	103.3432630309	-364.1539127048	-180.0000000000	0.0000000000	0.0000000000
162	MQE2M01	6421.1612101100	-80.6000000000	103.3432630309	-365.1539127048	-180.0000000000	0.0000000000	0.0000000000
163	D4023	6422.1612101100	-80.6000000000	103.3432630309	-366.1539127048	-180.0000000000	0.0000000000	0.0000000000
164	MQE2M02	6423.1612101100	-80.6000000000	103.3432630309	-367.1539127048	-180.0000000000	0.0000000000	0.0000000000
165	D4024	6428.5417101100	-80.6000000000	103.3432630309	-372.5344127048	-180.0000000000	0.0000000000	0.0000000000
166	IPM2C22	6428.5417101100	-80.6000000000	103.3432630309	-372.5344127048	-180.0000000000	0.0000000000	0.0000000000
167	D4025	6428.7417101100	-80.6000000000	103.3432630309	-373.7344127048	-180.0000000000	0.0000000000	0.0000000000
168	MQA2C22	6429.0417101100	-80.6000000000	103.3432630309	-373.0344127048	-180.0000000000	0.0000000000	0.0000000000
169	D4018	6429.2317101100	-80.6000000000	103.3432630309	-373.2244127048	-180.0000000000	0.0000000000	0.0000000000
170	MBC2C22H	6429.2317101200	-80.6000000000	103.3432630309	-373.2244127148	-180.0000000000	0.0000000000	0.0000000000
171	D4026	6429.4831901200	-80.6000000000	103.3432630309	-373.4758927148	-180.0000000000	0.0000000000	0.0000000000
172	MQA2C23	6429.7831901200	-80.6000000000	103.3432630309	-373.7758927148	-180.0000000000	0.0000000000	0.0000000000
173	D4027	6429.9231901200	-80.6000000000	103.3432630309	-373.9158927148	-180.0000000000	0.0000000000	0.0000000000
174	MBC2C23V	6430.0231901200	-80.6000000000	103.3432630309	-374.0158927148	-180.0000000000	0.0000000000	0.0000000000
175	D4028	6430.3513701200	-80.6000000000	103.3432630309	-374.3440727148	-180.0000000000	0.0000000000	0.0000000000
176	MQA2C24	6430.6513701200	-80.6000000000	103.3432630309	-374.6440727148	-180.0000000000	0.0000000000	0.0000000000
177	D4029	6430.8613701200	-80.6000000000	103.3432630309	-374.8540727148	-180.0000000000	0.0000000000	0.0000000000
178	IPM2C24A	6430.8613701200	-80.6000000000	103.3432630309	-374.8540727148	-180.0000000000	0.0000000000	0.0000000000
179	D4030	6436.8613701200	-80.6000000000	103.3432630309	-380.8540727148	-180.0000000000	0.0000000000	0.0000000000
180	IHA2C24	6436.8613701200	-80.6000000000	103.3432630309	-380.8540727148	-180.0000000000	0.0000000000	0.0000000000
181	D4031	6437.7530601200	-80.6000000000	103.3432630309	-381.7457627148	-180.0000000000	0.0000000000	0.0000000000
182	ATAGGER	6437.7530601200	-80.6000000000	103.3432630309	-381.7457627148	-180.0000000000	0.0000000000	0.0000000000
183	D4101	6439.7150601200	-80.6000000000	103.3432630309	-383.7077627148	-180.0000000000	0.0000000000	0.0000000000
184	COLA	6440.1150601200	-80.6000000000	103.3432630309	-384.1077627148	-180.0000000000	0.0000000000	0.0000000000
185	D4111	6441.1050601200	-80.6000000000	103.3432630309	-385.0977627148	-180.0000000000	0.0000000000	0.0000000000
186	FRONTWAL	6441.1050601300	-80.6000000000	103.3432630309	-385.0977627248	-180.0000000000	0.0000000000	0.0000000000
187	D4112	6442.0210601300	-80.6000000000	103.3432630309	-386.0137627248	-180.0000000000	0.0000000000	0.0000000000
188	PH2H00	6442.0210601300	-80.6000000000	103.3432630309	-386.0137627248	-180.0000000000	0.0000000000	0.0000000000
189	D4103	6445.8610601300	-80.6000000000	103.3432630309	-389.8537627248	-180.0000000000	0.0000000000	0.0000000000
190	COLB	6446.2610601300	-80.6000000000	103.3432630309	-390.2537627248	-180.0000000000	0.0000000000	0.0000000000
191	D4104	6458.3510601300	-80.6000000000	103.3432630309	-402.3437627248	-180.0000000000	0.0000000000	0.0000000000
192	TARGET	6458.3510601300	-80.6000000000	103.3432630309	-402.3437627248	-180.0000000000	0.0000000000	0.0000000000
193	D4034	6470.9720601300	-80.6000000000	103.3432630309	-414.9647627248	-180.0000000000	0.0000000000	0.0000000000
194	BACKWALL	6470.9720601400	-80.6000000000	103.3432630309	-414.9647627348	-180.0000000000	0.0000000000	0.0000000000
195	D4035	6477.0720601400	-80.6000000000	103.3432630309	-421.0647627348	-180.0000000000	0.0000000000	0.0000000000
196	ALCOVEEN	6477.0720601500	-80.6000000000	103.3432630309	-421.0647627448	-180.0000000000	0.0000000000	0.0000000000

1
STOP

halls_5.out

LDIMAT VERSION 2.9 PROD
ODATE AND TIME OF THIS RUN: 12-JUN-2007 13:00:26

XSIF Parser Version 2.1
Version Date: 01-JAN-2004
Run: 12-JUN-2007 13:00:26
XSIF Parser developed by NLC Department,
Stanford Linear Accelerator Center.

UTRANSPORT

TITLE
CONVERTED FROM ../../OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//HALLC_5.OPT

5

D4300: DRIFT, L=0.4455
ITV2C00: MONITOR, L=0
D4301: DRIFT, L=0.3545
MLA3C02: SBEND, L=2.3, ANGLE=-1.6, K1=-0, &

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10     E1=-0, E2=-1.6, HGAP=0, &
       HGAPX=0, &
       FINT=0.5, TILT=0
D4302: DRIFT, L=1.263
MBD3C00V: GKICK, L=1E-08, DXP=0, DYP=0
15     D4303: DRIFT, L=0.867
       IPM3C00: MONITOR, L=0
D4304: DRIFT, L=1.633
MAT3C00H: GKICK, L=1E-08, DXP=0, DYP=0
MAT3C00V: GKICK, L=1E-08, DXP=0, DYP=0
20     MBD3C00AV: GKICK, L=1E-08, DXP=0, DYP=0
D4305: DRIFT, L=7.36235
IPM3C01: MONITOR, L=0
D4306: DRIFT, L=0.22465
MQA3C01: QUADRUPOLE, L=0.3, K1=0.665095, TILT=0
25     D4307: DRIFT, L=0.19315
MBC3C01H: GKICK, L=1E-08, DXP=0, DYP=0
D4308: DRIFT, L=1.5822
IPM3C02: MONITOR, L=0
MQA3C02: QUADRUPOLE, L=0.3, K1=-1.06884, TILT=0
30     D4309: DRIFT, L=0.38924
MAT3C02V: GKICK, L=1E-08, DXP=0, DYP=0
MBC3C02V: GKICK, L=1E-08, DXP=0, DYP=0
D4310: DRIFT, L=0.16076
MAT3C02AV: GKICK, L=1E-08, DXP=0, DYP=0
35     D4311: DRIFT, L=1.22535
IPM3C03: MONITOR, L=0
MQA3C03: QUADRUPOLE, L=0.3, K1=0.665095, TILT=0
MBC3C03H: GKICK, L=1E-08, DXP=0, DYP=0
MAT3C03H: GKICK, L=1E-08, DXP=0, DYP=0
40     MAT3C03V: GKICK, L=1E-08, DXP=0, DYP=0
D4312: DRIFT, L=11.8068
MBN3C04: SBEND, L=1, ANGLE=-1.6, K1=-0, &
       E1=-1.6, E2=-0, HGAP=0, &
       HGAPX=0, &
       FINT=0.5, TILT=0
45     D4313: DRIFT, L=0.77535
IPM3C04: MONITOR, L=0
MQA3C04: QUADRUPOLE, L=0.3, K1=0.897082, TILT=0
MBC3C04H: GKICK, L=1E-08, DXP=0, DYP=0
50     D4314: DRIFT, L=0.20685
MBC3C04V: GKICK, L=1E-08, DXP=0, DYP=0
D4315: DRIFT, L=0.2
MAT3C04H: GKICK, L=1E-08, DXP=0, DYP=0
MAT3C04V: GKICK, L=1E-08, DXP=0, DYP=0
55     D4316: DRIFT, L=1.97535
IPM3C05: MONITOR, L=0
MQA3C05: QUADRUPOLE, L=0.3, K1=-0.493105, TILT=0
MAT3C05H: GKICK, L=1E-08, DXP=0, DYP=0
MBC3C05V: GKICK, L=1E-08, DXP=0, DYP=0
60     D4317: DRIFT, L=6.38611
IPM3C06: MONITOR, L=0
MQA3C06: QUADRUPOLE, L=0.3, K1=0.351058, TILT=0
MBC3C06H: GKICK, L=1E-08, DXP=0, DYP=0
MBC3C06V: GKICK, L=1E-08, DXP=0, DYP=0
65     MAT3C06V: GKICK, L=1E-08, DXP=0, DYP=0
MAT3C06H: GKICK, L=1E-08, DXP=0, DYP=0
D4318: DRIFT, L=3.9822
IPM3C07: MONITOR, L=0
MQA3C07: QUADRUPOLE, L=0.3, K1=-0.422714, TILT=0
70     D4319: DRIFT, L=0.19314
MBC3C07H: GKICK, L=1E-08, DXP=0, DYP=0
D4320: DRIFT, L=0.1961
MBC3C07V: GKICK, L=1E-08, DXP=0, DYP=0
MAT3C07V: GKICK, L=1E-08, DXP=0, DYP=0
75     MAT3C07H: GKICK, L=1E-08, DXP=0, DYP=0
D4321: DRIFT, L=1.66116
IHA3C07A: MONITOR, L=0
D4322: DRIFT, L=1.03158
MRK3C07V: GKICK, L=1E-08, DXP=0, DYP=0
80     IPM3C07A: MONITOR, L=0
D4323: DRIFT, L=0.28666
ITV3C07A: MONITOR, L=0
D4324: DRIFT, L=0.33776
MRC3M01V: GKICK, L=1E-08, DXP=0, DYP=0
85     D4325: DRIFT, L=0.406
MRC3M02H: GKICK, L=1E-08, DXP=0, DYP=0
D4326: DRIFT, L=0.4364
IHA3C07B: MONITOR, L=0
D4327: DRIFT, L=0.62655
90     MAT3C08H: GKICK, L=1E-08, DXP=0, DYP=0
IPM3C08: MONITOR, L=0
MQA3C08: QUADRUPOLE, L=0.3, K1=0.489903, TILT=0
D4328: DRIFT, L=0.34497
MSA3C08: SEXTUPOLE, L=0.15, K2=0
95     D4329: DRIFT, L=0.60503
MBA3C05: SBEND, L=3, ANGLE=-4.2875, K1=0.374535, &
       E1=-2.14375, E2=-2.14375, HGAP=0, &
       HGAPX=0, &
       FINT=0.5, TILT=0
100    D4330: DRIFT, L=0.2815
IHA3C09: MONITOR, L=0
D4331: DRIFT, L=0.5185
QUAD: DRIFT, L=0.3
MBC3C09V: GKICK, L=1E-08, DXP=0, DYP=0
105    D4332: DRIFT, L=0.15182
MSA3C09: SEXTUPOLE, L=0.15, K2=0
MBA3C06: SBEND, L=3, ANGLE=-4.2875, K1=0.374535, &
       E1=-2.14375, E2=-2.14375, HGAP=0, &
       HGAPX=0, &
       FINT=0.5, TILT=0
110    D4333: DRIFT, L=0.57535
IPM3C10: MONITOR, L=0
MSA3C10: SEXTUPOLE, L=0.15, K2=0

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115 MBA3C07: SBEND, L=3, ANGLE=-4.2875, K1=0.374535, &
    E1=-2.14375, E2=-2.14375, HGAP=0, &
    HGAPX=0, &
    FINT=0.5, TILT=0
    IPM3C11: MONITOR, L=0
    MQA3C11: QUADRUPOLE, L=0.3, K1=-0.407191, TILT=0
120 MBC3C11V: GKICK, L=1E-08, DXP=0, DYP=0
    MSA3C11: SEXTUPOLE, L=0.15, K2=0
    MBA3C08: SBEND, L=3, ANGLE=-4.2875, K1=0.374535, &
    E1=-2.14375, E2=-2.14375, HGAP=0, &
    HGAPX=0, &
    FINT=0.5, TILT=0
125 D4334: DRIFT, L=0.3542
    IHA3C12A: MONITOR, L=0
    D4335: DRIFT, L=0.2219
    IPM3C12: MONITOR, L=0
    D4336: DRIFT, L=0.2239
    MQA3C12: QUADRUPOLE, L=0.3, K1=0.815551, TILT=0
130 D4337: DRIFT, L=0.4046
    IOR3C12: MONITOR, L=0
    D4338: DRIFT, L=0.3443
    IHA3C12B: MONITOR, L=0
135 D4339: DRIFT, L=0.3511
    MBA3C09: SBEND, L=3, ANGLE=-4.2875, K1=-0, &
    E1=-2.14375, E2=-2.14375, HGAP=0, &
    HGAPX=0, &
    FINT=0.5, TILT=0
140 D4340: DRIFT, L=0.8
    MQA3C13: QUADRUPOLE, L=0.3, K1=-0.366274, TILT=0
    MBC3C13V: GKICK, L=1E-08, DXP=0, DYP=0
    MSA3C13: SEXTUPOLE, L=0.15, K2=0
145 MBA3C10: SBEND, L=3, ANGLE=-4.2875, K1=-0, &
    E1=-2.14375, E2=-2.14375, HGAP=0, &
    HGAPX=0, &
    FINT=0.5, TILT=0
    IPM3C14: MONITOR, L=0
    MSA3C14: SEXTUPOLE, L=0.15, K2=0
150 MBA3C11: SBEND, L=3, ANGLE=-4.2875, K1=-0, &
    E1=-2.14375, E2=-2.14375, HGAP=0, &
    HGAPX=0, &
    FINT=0.5, TILT=0
155 D4341: DRIFT, L=0.69315
    MKS3C15V: GKICK, L=1E-08, DXP=1.44332E-24, DYP=5.43914E-08
    D4342: DRIFT, L=0.6
    MBC3C15V: GKICK, L=1E-08, DXP=0, DYP=0
    D4343: DRIFT, L=0.90685
160 MBA3C12: SBEND, L=3, ANGLE=-4.2875, K1=-0, &
    E1=-2.14375, E2=-2.14375, HGAP=0, &
    HGAPX=0, &
    FINT=0.5, TILT=0
165 D4344: DRIFT, L=0.5761
    IPM3C16: MONITOR, L=0
    MQA3C16: QUADRUPOLE, L=0.3, K1=0.641857, TILT=0
    MBC3C16H: GKICK, L=1E-08, DXP=0, DYP=0
    D4345: DRIFT, L=1.75285
    IHA3C17A: MONITOR, L=0
170 D4346: DRIFT, L=0.48097
    ITV3C17A: MONITOR, L=0
    D4347: DRIFT, L=0.13868
    IPM3C17: MONITOR, L=0
    D4348: DRIFT, L=0.24335
175 MQA3C17: QUADRUPOLE, L=0.3, K1=-0.452292, TILT=0
    D4349: DRIFT, L=0.219
    MBC3C17V: GKICK, L=1E-08, DXP=0, DYP=0
    D4350: DRIFT, L=0.4923
    IHA3C17B: MONITOR, L=0
180 D4351: DRIFT, L=0.1457
    MBD3H01H: SBEND, L=0.15, ANGLE=-0.0167599, K1=-0, &
    E1=-0, E2=-0, HGAP=0, &
    HGAPX=0, &
    FINT=0.5, TILT=0
185 D4352: DRIFT, L=0.2455
    IPM3C17A: MONITOR, L=0
    MQA3C18: QUADRUPOLE, L=0.3, K1=0.0157526, TILT=0
    MBC3C18V: GKICK, L=1E-08, DXP=0, DYP=0
    MBC3C18H: GKICK, L=1E-08, DXP=0, DYP=0
190 D4402: DRIFT, L=0.4
    IPM3C19: MONITOR, L=0
    MQA3C19: QUADRUPOLE, L=0.3, K1=-0.0324398, TILT=0
    MBC3C19V: GKICK, L=1E-08, DXP=0, DYP=0
    MBC3C19H: GKICK, L=1E-08, DXP=0, DYP=0
195 MVS1P01: GKICK, L=1E-08, DXP=0, DYP=0
    MMCLP01: SBEND, L=1.5, ANGLE=-3.07058, K1=-0, &
    E1=-1.5386, E2=-0, HGAP=0.019964, &
    HGAPX=0, &
    FINT=0.5, TILT=90
200 D4246: DRIFT, L=0.6
    MBT1P01H: GKICK, L=1E-08, DXP=0, DYP=0
    D4247: DRIFT, L=0.7
    MVS1P02: GKICK, L=1E-08, DXP=0, DYP=0
    MMCLP02: SBEND, L=1.5, ANGLE=3.07058, K1=-0, &
205 E1=1.5386, E2=0, HGAP=0.019964, &
    HGAPX=0, &
    FINT=0.5, TILT=90
    D4248: DRIFT, L=0.3
    IPMLP02A: MONITOR, L=0
210 D4249A: DRIFT, L=0.8
    MATCH: MONITOR, L=0
    IPMLP02B: MONITOR, L=0
    D4250: DRIFT, L=0.3
    MVS1P03: GKICK, L=1E-08, DXP=0, DYP=0
215 MMCLP03: SBEND, L=1.5, ANGLE=3.07058, K1=-0, &
    E1=1.5386, E2=0, HGAP=0.019964, &
    HGAPX=0, &

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    FINT=0.5, TILT=90
D4251: DRIFT, L=0.4
220 IPM1P03A: MONITOR, L=0
    D4252: DRIFT, L=0.2
    MBT1P04H: GKICK, L=1E-08, DXP=0, DYP=0
    D4253: DRIFT, L=0.7
    MVS1P04: GKICK, L=1E-08, DXP=0, DYP=0
225 MMCLP04: SBEND, L=1.5, ANGLE=-3.07058, K1=-0, &
    E1=-1.5386, E2=-0, HGAP=0.019964, &
    HGAPX=0, &
    FINT=0.5, TILT=90
D4254: DRIFT, L=0.6
230 IPM3C20: MONITOR, L=0
    MQA3C20: QUADRUPOLE, L=0.3, K1=-0.16124, TILT=0
    MBC3C20V: GKICK, L=1E-08, DXP=0, DYP=0
    MBC3C20H: GKICK, L=1E-08, DXP=0, DYP=0
    D4403: DRIFT, L=0.2
235 IHA3C20: MONITOR, L=0
    IPM3C21: MONITOR, L=0
    MQA3C21: QUADRUPOLE, L=0.3, K1=0.144231, TILT=0
    SOL1: SOLENOID, L=0.061, KL=0.0, KS=0, TILT=0
    D4354: DRIFT, L=0.047
240 MOLLER: MONITOR, L=0
    SOL2: SOLENOID, L=0.061, KL=0.0, KS=0, TILT=0
    D4355: DRIFT, L=0.34365
    MQF3M01: QUADRUPOLE, L=0.3524, K1=-0.493546, TILT=0
    D4356: DRIFT, L=1.82595
245 MQE3M02: QUADRUPOLE, L=0.9906, K1=0.209683, TILT=0
    D4357: DRIFT, L=5.08645
    IPM3C21A: MONITOR, L=0
    MBD3H02V: SBEND, L=0.15, ANGLE=0.069792, K1=-0, &
    E1=0, E2=0, HGAP=0, &
    HGAPX=0, &
250 FINT=0.5, TILT=90
    D4364: DRIFT, L=0.04519
    MBD3H2AV: SBEND, L=0.15, ANGLE=0.069792, K1=-0, &
    E1=0, E2=0, HGAP=0, &
    HGAPX=0, &
255 FINT=0.5, TILT=90
    MBD3H02H: SBEND, L=0.15, ANGLE=0, K1=0, &
    E1=0, E2=0, HGAP=0, &
    HGAPX=0, &
260 FINT=0.5, TILT=0
    D4371: DRIFT, L=0.30011
    MFR3C01H: GKICK, L=1E-08, DXP=0, DYP=0
    D4372: DRIFT, L=0.4
    MFR3C01V: GKICK, L=1E-08, DXP=0, DYP=0
265 IPM3C20A: MONITOR, L=0
    D4366: DRIFT, L=0.21841
    IBC3C20: MONITOR, L=0
    D4367: DRIFT, L=0.3415
    IUN3C20: MONITOR, L=0
270 D4368: DRIFT, L=0.3374
    IBC3C20A: MONITOR, L=0
    D4369: DRIFT, L=0.2677
    D4375: DRIFT, L=6.39848
    MBD3H04V: SBEND, L=0.15, ANGLE=-0.069792, K1=-0, &
    E1=-0, E2=-0, HGAP=0, &
    HGAPX=0, &
275 FINT=0.5, TILT=90
    D4376: DRIFT, L=0.04685
    MBD3H4AV: SBEND, L=0.15, ANGLE=-0.069792, K1=-0, &
    E1=-0, E2=-0, HGAP=0, &
    HGAPX=0, &
280 FINT=0.5, TILT=90
    D4377: DRIFT, L=2.40238
    MAP3H00H: GKICK, L=1E-08, DXP=0, DYP=0
285 D4378: DRIFT, L=0.2921
    IPM3H00A: MONITOR, L=0
    D4379: DRIFT, L=0.25298
    IHA3H00: MONITOR, L=0
290 D4380: DRIFT, L=0.9942
    IPM3H00B: MONITOR, L=0
    D4381: DRIFT, L=0.19969
    ITV3H00: MONITOR, L=0
    D4382: DRIFT, L=0.21387
    IHA3H00A: MONITOR, L=0
295 IPM3H00C: MONITOR, L=0
    D4383: DRIFT, L=0.34516
    IBC3H00: MONITOR, L=0
    D4384: DRIFT, L=1.01165
    IETAT301: MONITOR, L=0
300 D4385: DRIFT, L=51.81
    IDUMP: MONITOR, L=0

HALLC_5: LINE=(D4300, &
305 ITV2C00, D4301, MLA3C02, D4302, MBD3C00V, &
    D4303, IPM3C00, D4304, MAT3C00H, MAT3C00V, &
    MBD3C00AV, D4305, IPM3C01, D4306, MQA3C01, &
    D4307, MBC3C01H, D4308, IPM3C02, D4306, &
    MQA3C02, D4309, MAT3C02V, MBC3C02V, D4310, &
    MAT3C02AV, D4311, IPM3C03, D4306, MQA3C03, &
310 D4307, MBC3C03H, MAT3C03H, MAT3C03V, D4312, &
    MBN3C04, D4313, IPM3C04, D4306, MQA3C04, &
    D4307, MBC3C04H, D4314, MBC3C04V, D4315, &
    MAT3C04H, D4315, MAT3C04V, D4316, IPM3C05, &
    D4306, MQA3C05, D4309, MAT3C05H, MBC3C05V, &
315 D4317, IPM3C06, D4306, MQA3C06, D4307, &
    MBC3C06H, D4315, MBC3C06V, D4315, MAT3C06V, &
    D4315, MAT3C06H, D4318, IPM3C07, D4306, &
    MQA3C07, D4319, MBC3C07H, D4320, MBC3C07V, &
    D4315, MAT3C07V, D4315, MAT3C07H, D4321, &
320 IHA3C07A, D4322, MRK3C07V, IPM3C07A, D4323, &
    ITV3C07A, D4324, MRC3M01V, D4325, MRC3M02H, &

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D4326, IHA3C07B, D4327, MAT3C08H, IPM3C08, &
D4306, MQA3C08, D4328, MSA3C08, D4329, &
MBA3C05, D4330, IHA3C09, D4331, QUAD, &
325 D4307, MBC3C09V, D4332, MSA3C09, D4329, &
MBA3C06, D4333, IPM3C10, D4306, QUAD, &
D4328, MSA3C10, D4329, MBA3C07, D4333, &
IPM3C11, D4306, MQA3C11, D4307, MBC3C11V, &
D4332, MSA3C11, D4329, MBA3C08, D4334, &
330 IHA3C12A, D4335, IPM3C12, D4336, MQA3C12, &
D4337, IOR3C12, D4338, IHA3C12B, D4339, &
MBA3C09, D4340, MQA3C13, D4307, MBC3C13V, &
D4332, MSA3C13, D4329, MBA3C10, D4333, &
IPM3C14, D4306, QUAD, D4328, MSA3C14, &
335 D4329, MBA3C11, D4341, MKS3C15V, D4342, &
MBC3C15V, D4343, MBA3C12, D4344, IPM3C16, &
D4336, MQA3C16, D4307, MBC3C16H, D4345, &
IHA3C17A, D4346, ITV3C17A, D4347, IPM3C17, &
D4348, MQA3C17, D4349, MBC3C17V, D4350, &
340 IHA3C17B, D4351, MBD3H01H, D4352, IPM3C17A, &
D4306, MQA3C18, D4307, MBC3C18V, D4307, &
MBC3C18H, D4402, IPM3C19, D4306, MQA3C19, &
D4307, MBC3C19V, D4307, MBC3C19H, D4402, &
MVS1P01, MMCLP01, D4246, MBT1P01H, D4247, &
345 MVS1P02, MMCLP02, D4248, IPMLP02A, D4249A, &
MATCH, D4249A, IPMLP02B, D4250, MVS1P03, &
MMCLP03, D4251, IPMLP03A, D4252, MBT1P04H, &
D4253, MVS1P04, MMCLP04, D4254, IPM3C20, &
D4306, MQA3C20, D4307, MBC3C20V, D4307, &
350 MBC3C20H, D4403, IHA3C20, D4403, IPM3C21, &
D4306, MQA3C21, D4307, MBC3C20V, D4307, &
MBC3C20H, D4402, SOL1, D4354, MOLLER, &
D4354, SOL2, D4355, MQF3M01, D4356, &
MQE3M02, D4357, IPM3C21A, D4306, MBD3H02V, &
355 D4364, MBD3H2AV, D4364, MBD3H02H, D4371, &
MFR3C01H, D4372, MFR3C01V, D4306, IPM3C20A, &
D4366, IBC3C20, D4367, IUN3C20, D4368, &
IBC3C20A, D4369, IPM3C20, D4375, MBD3H04V, &
D4376, MBD3H4AV, D4377, MAP3H00H, D4378, &
360 IPM3H00A, D4379, IHA3H00, D4380, IPM3H00B, &
D4381, ITV3H00, D4382, IHA3H00A, D4379, &
IPM3H00C, D4383, IBC3H00, D4384, IETAT301, &
D4385, IDUMP)
USE, HALLC_5
365 DIMAT

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* DIMAD PROGRAM : LAST MODIFIED ON May 27, 2005 *
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1 CONVERTED FROM ../../OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//HALLC_5.OPT

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TOTAL LENGTH OF MACHINE IS: 194.445 METERS

IN THIS RUN THERE ARE :
236 DISTINCT ELEMENTS. ALLOCATED MXELMD : 237
298 ELEMENTS IN MACHINE. ALLOCATED MXPOS_D : 300
47 MATRICES DEFINED. ALLOCATED MAXMAT : 48
1325 VALUES IN ELDAT. ALLOCATED MAXDAT : 1325
0 LCAVs. ALLOCATED MX_LCAV : 1

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1 OPERATION LIST ,

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MACHINE
1 2 1 0 1 1 1
10 0 0 0
10 0 0 0
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ELEMENT	#	BETAX	ALPHAX	BETAY	ALPHAY	ETAX	ETAPX	ETAY	ETAPY	NUX	NUY	ACC.LEN
\$\$INITIAL\$\$	0	10.0000	0.0000	10.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.000
D4300	1	10.0198	-0.0446	10.0198	-0.0446	0.0000	0.0000	0.0000	0.0000	0.00709	0.00709	0.446
ITV2C00	2	10.0198	-0.0446	10.0198	-0.0446	0.0000	0.0000	0.0000	0.0000	0.00709	0.00709	0.446
D4301	3	10.0640	-0.0800	10.0640	-0.0800	0.0000	0.0000	0.0000	0.0000	0.01271	0.01271	0.800
MLA3C02	4	10.9528	-0.3101	10.9610	-0.3063	-0.0321	-0.0279	0.0000	0.0000	0.04785	0.04784	3.100
D4302	5	11.8957	-0.4365	11.8939	-0.4323	-0.0674	-0.0279	0.0000	0.0000	0.06550	0.06548	4.363
MBD3C00V	6	11.8957	-0.4365	11.8939	-0.4323	-0.0674	-0.0279	0.0000	0.0000	0.06550	0.06548	4.363
D4303	7	12.7277	-0.5232	12.7185	-0.5188	-0.0916	-0.0279	0.0000	0.0000	0.07672	0.07671	5.230
IPM3C00	8	12.7277	-0.5232	12.7185	-0.5188	-0.0916	-0.0279	0.0000	0.0000	0.07672	0.07671	5.230
D4304	9	14.7035	-0.6867	14.6791	-0.6818	-0.1372	-0.0279	0.0000	0.0000	0.09577	0.09578	6.863
MAT3C00H	10	14.7035	-0.6867	14.6791	-0.6818	-0.1372	-0.0279	0.0000	0.0000	0.09577	0.09578	6.863

MAT3C00V	11	14.7035	-0.6867	14.6791	-0.6818	-0.1372	-0.0279	0.0000	0.0000	0.09577	0.09578	6.863
MBD3C00A	12	14.7035	-0.6867	14.6791	-0.6818	-0.1372	-0.0279	0.0000	0.0000	0.09577	0.09578	6.863
D4305	13	30.2389	-1.4235	30.1275	-1.4165	-0.3429	-0.0279	0.0000	0.0000	0.15253	0.15270	14.225
IPM3C01	14	30.2389	-1.4235	30.1275	-1.4165	-0.3429	-0.0279	0.0000	0.0000	0.15253	0.15270	14.225
D4306	15	30.8835	-1.4459	30.7689	-1.4389	-0.3491	-0.0279	0.0000	0.0000	0.15370	0.15388	14.450
MQA3C01	16	29.9136	4.6141	33.5551	-8.0330	-0.3470	0.0419	0.0000	0.0000	0.15526	0.15538	14.750
D4307	17	28.1590	4.4701	36.7312	-8.4102	-0.3390	0.0419	0.0000	0.0000	0.15632	0.15626	14.943
MBC3C01H	18	28.1590	4.4701	36.7312	-8.4102	-0.3390	0.0419	0.0000	0.0000	0.15632	0.15626	14.943
D4308	19	15.8791	3.2912	68.2332	-11.5001	-0.2727	0.0419	0.0000	0.0000	0.16824	0.16129	16.525
IPM3C02	20	15.8791	3.2912	68.2332	-11.5001	-0.2727	0.0419	0.0000	0.0000	0.16824	0.16129	16.525
D4306	21	14.4379	3.1238	73.4987	-11.9388	-0.2633	0.0419	0.0000	0.0000	0.17060	0.16179	16.750
MQA3C02	22	13.9443	-1.4261	73.5351	11.8213	-0.2633	-0.0419	0.0000	0.0000	0.17402	0.16243	17.050
D4309	23	15.0875	-1.5107	64.6224	11.0764	-0.2796	-0.0419	0.0000	0.0000	0.17829	0.16333	17.439
MAT3C02V	24	15.0875	-1.5107	64.6224	11.0764	-0.2796	-0.0419	0.0000	0.0000	0.17829	0.16333	17.439
MBC3C02V	25	15.0875	-1.5107	64.6224	11.0764	-0.2796	-0.0419	0.0000	0.0000	0.17829	0.16333	17.439
D4310	26	15.5788	-1.5457	61.1106	10.7687	-0.2863	-0.0419	0.0000	0.0000	0.17996	0.16374	17.600
MAT3C02A	27	15.5788	-1.5457	61.1106	10.7687	-0.2863	-0.0419	0.0000	0.0000	0.17996	0.16374	17.600
D4311	28	19.6935	-1.8123	37.5936	8.4234	-0.3377	-0.0419	0.0000	0.0000	0.19110	0.16781	18.825
IPM3C03	29	19.6935	-1.8123	37.5936	8.4234	-0.3377	-0.0419	0.0000	0.0000	0.19110	0.16781	18.825
D4306	30	20.5188	-1.8612	33.9056	7.9934	-0.3471	-0.0419	0.0000	0.0000	0.19288	0.16881	19.050
MQA3C03	31	20.4067	2.2272	31.1620	1.3339	-0.3492	0.0279	0.0000	0.0000	0.19519	0.17029	19.350
D4307	32	19.5573	2.1708	30.6500	1.3166	-0.3438	0.0279	0.0000	0.0000	0.19673	0.17128	19.543
MBC3C03H	33	19.5573	2.1708	30.6500	1.3166	-0.3438	0.0279	0.0000	0.0000	0.19673	0.17128	19.543
MAT3C03H	34	19.5572	2.1708	30.6500	1.3166	-0.3438	0.0279	0.0000	0.0000	0.19673	0.17128	19.543
MAT3C03V	35	19.5572	2.1708	30.6500	1.3166	-0.3438	0.0279	0.0000	0.0000	0.19673	0.17128	19.543
D4312	36	9.0135	-1.2778	11.9920	0.2636	-0.0141	0.0279	0.0000	0.0000	0.52234	0.27688	31.350
MBN3C04	37	11.8687	-1.5697	11.5356	0.1834	-0.0002	0.0000	0.0000	0.0000	0.53775	0.29043	32.350
D4313	38	14.4782	-1.7960	11.3051	0.1139	-0.0002	0.0000	0.0000	0.0000	0.54716	0.30124	33.125
IPM3C04	39	14.4782	-1.7960	11.3051	0.1139	-0.0002	0.0000	0.0000	0.0000	0.54716	0.30124	33.125
D4306	40	15.2999	-1.8615	11.2584	0.0938	-0.0002	0.0000	0.0000	0.0000	0.54957	0.30441	33.350
MQA3C04	41	15.1808	2.2476	12.1411	-3.1147	-0.0002	0.0000	0.0000	0.0000	0.55266	0.30855	33.650
D4307	42	14.3274	2.1706	13.3771	-3.2849	-0.0002	0.0000	0.0000	0.0000	0.55474	0.31096	33.843
MBC3C04H	43	14.3274	2.1706	13.3771	-3.2849	-0.0002	0.0000	0.0000	0.0000	0.55474	0.31096	33.843
D4314	44	13.4465	2.0882	14.7738	-3.4672	-0.0001	0.0000	0.0000	0.0000	0.55711	0.31330	34.050
MBC3C04V	45	13.4465	2.0882	14.7738	-3.4672	-0.0001	0.0000	0.0000	0.0000	0.55711	0.31330	34.050
D4315	46	12.6272	2.0084	16.1960	-3.6435	-0.0001	0.0000	0.0000	0.0000	0.55956	0.31536	34.250
MAT3C04H	47	12.6272	2.0084	16.1960	-3.6435	-0.0001	0.0000	0.0000	0.0000	0.55956	0.31536	34.250
D4315	48	11.8397	1.9287	17.6886	-3.8198	-0.0001	0.0000	0.0000	0.0000	0.56216	0.31724	34.450
MAT3C04V	49	11.8397	1.9287	17.6886	-3.8198	-0.0001	0.0000	0.0000	0.0000	0.56216	0.31724	34.450
D4316	50	5.7755	1.1412	36.2187	-5.5609	-0.0001	0.0000	0.0000	0.0000	0.60055	0.32967	36.425
IPM3C05	51	5.7755	1.1412	36.2187	-5.5609	-0.0001	0.0000	0.0000	0.0000	0.60055	0.32967	36.425
D4306	52	5.2829	1.0517	38.7616	-5.7589	-0.0001	0.0000	0.0000	0.0000	0.60703	0.33063	36.650
MQA3C05	53	4.9074	0.2184	40.4989	0.0540	0.0000	0.0000	0.0000	0.0000	0.61648	0.33183	36.950
D4309	54	4.7697	0.1353	40.4606	0.0444	0.0000	0.0000	0.0000	0.0000	0.62930	0.33336	37.339
MAT3C05H	55	4.7697	0.1353	40.4606	0.0444	0.0000	0.0000	0.0000	0.0000	0.62930	0.33336	37.339
MBC3C05V	56	4.7697	0.1353	40.4606	0.0444	0.0000	0.0000	0.0000	0.0000	0.62930	0.33336	37.339
D4317	57	11.7483	-1.2281	40.9036	-0.1138	0.0001	0.0000	0.0000	0.0000	0.79194	0.35844	43.725
IPM3C06	58	11.7483	-1.2281	40.9036	-0.1138	0.0001	0.0000	0.0000	0.0000	0.79194	0.35844	43.725
D4306	59	12.3108	-1.2760	40.9560	-0.1193	0.0001	0.0000	0.0000	0.0000	0.79491	0.35932	43.950
MQA3C06	60	12.6946	0.0104	42.3391	-4.5393	0.0001	0.0000	0.0000	0.0000	0.79871	0.36047	44.250
D4307	61	12.6935	-0.0048	44.1117	-4.6379	0.0002	0.0000	0.0000	0.0000	0.80113	0.36118	44.443
MBC3C06H	62	12.6935	-0.0048	44.1117	-4.6379	0.0002	0.0000	0.0000	0.0000	0.80113	0.36118	44.443
D4315	63	12.6985	-0.0205	45.9872	-4.7400	0.0002	0.0000	0.0000	0.0000	0.80364	0.36189	44.643
MBC3C06V	64	12.6985	-0.0205	45.9872	-4.7400	0.0002	0.0000	0.0000	0.0000	0.80364	0.36189	44.643
D4315	65	12.7099	-0.0363	47.9036	-4.8420	0.0002	0.0000	0.0000	0.0000	0.80615	0.36257	44.843
MAT3C06V	66	12.7099	-0.0363	47.9036	-4.8420	0.0002	0.0000	0.0000	0.0000	0.80615	0.36257	44.843
D4315	67	12.7276	-0.0520	49.8609	-4.9441	0.0002	0.0000	0.0000	0.0000	0.80865	0.36322	45.043
MAT3C06H	68	12.7276	-0.0520	49.8609	-4.9441	0.0002	0.0000	0.0000	0.0000	0.80865	0.36322	45.043
D4318	69	14.3914	-0.3658	97.3299	-6.9762	0.0002	0.0000	0.0000	0.0000	0.85618	0.37232	49.025
IPM3C07	70	14.3914	-0.3658	97.3299	-6.9762	0.0002	0.0000	0.0000	0.0000	0.85618	0.37232	49.025
D4306	71	14.5597	-2.3308	100.9080	-7.0908	0.0002	0.0000	0.0000	0.0000	0.85865	0.37268	49.250
MQA3C07	72	15.3639	-2.3308	100.9080	-7.154	0.0002	0.0000	0.0000	0.0000	0.86186	0.37315	49.550
D4319	73	16.2798	-2.4117	98.7126	5.6510	0.0002	0.0000	0.0000	0.0000	0.86381	0.37346	49.743
MBC3C07H	74	16.2798	-2.4117	98.7126	5.6510	0.0002	0.0000	0.0000	0.0000	0.86381	0.37346	49.743
D4320	75	17.2418	-2.4938	96.5092	5.5856	0.0002	0.0000	0.0000	0.0000	0.86567	0.37378	49.939
MBC3C07V	76	17.2418	-2.4938	96.5092	5.5856	0.0002	0.0000	0.0000	0.0000	0.86567	0.37378	49.939
D4315	77	18.2561	-2.5775	94.2883	5.5189	0.0002	0.0000	0.0000	0.0000	0.86746	0.37411	50.139
MAT3C07V	78	18.2561	-2.5775	94.2883	5.5189	0.0002	0.0000	0.0000	0.0000	0.86746	0.37411	50.139
D4315	79	19.3038	-2.6613	92.0941	5.4521	0.0002	0.0000	0.0000	0.0000	0.86916	0.37446	50.339
MAT3C07H	80	19.3038	-2.6613	92.0941	5.4521	0.0002	0.0000	0.0000	0.0000	0.86916	0.37446	50.339
D4321	81	29.3008	-3.3568	74.9010	4.8979	0.0003	0.0000	0.0000	0.0000	0.88029	0.37764	52.000
IHA3C07A	82	29.3008	-3.3568	74.9010	4.8979	0.0003	0.0000	0.0000	0.0000	0.88029	0.37764	52.000
D4322	83	36.6720	-3.7887	65.1509	4.5537	0.0003	0.0000	0.0000	0.0000	0.88530	0.37999	53.032
MRK3C07V	84	36.6720	-3.7887	65.1509	4.5537	0.0003	0.0000	0.0000	0.0000	0.88530	0.37999	53.032
IPM3C07A	85	36.6720	-3.7887	65.1509	4.5537	0.0003	0.0000	0.0000	0.0000	0.88530	0.37999	53.032
D4323	86	38.8786	-3.9087	62.5676	4.4581	0.0004	0.0000	0.0000	0.0000	0.88650	0.38070	53.319
ITV3C07A	87	38.8786	-3.9087	62.5676	4.4581	0.0004	0.0000	0.0000	0.0000	0.88650	0.38070	53.319
D4324	88	41.5668	-4.0502	59.5941	4.3454	0.0004	0.0000	0.0000	0.0000	0.88784	0.38158	53.656
MRC3M01V	89	41.5668	-4.0502	59.5941	4.3454	0.0004	0.0000	0.0000	0.0000	0.88784	0.38158	53.656
D4325	90	44.9245	-4.2201	56.1206	4.2100	0.0004	0.0000	0.0000	0.0000	0.88934	0.38270	54.062
MRC3M02H	91	44.9245	-4.2201	56.1206	4.2100	0.0004	0.0000	0.0000	0.0000	0.88934	0.38270	54.062
D4326	92	48.6876	-4.4029	52.5097	4.0644	0.0004	0.0000	0.0000	0.0000	0.89082	0.38398	54.499
IHA3C07B	93	48.6876	-4.4029	52.5097	4.0644	0.0004	0.0000	0.0000	0.0000	0.89082	0.38398	54.499
D4327	94	54.3692	-4.6652	47.5476	3.8553	0.0004						

D4306	115	9.4709	1.1205	121.3009	-4.4339	-0.7339	-0.1501	0.0000	0.0000	0.96607	0.40929	65.750
QUAD	116	8.8200	1.0491	123.9766	-4.4850	-0.7789	-0.1501	0.0000	0.0000	0.97129	0.40968	66.050
D4328	117	8.1246	0.9669	127.0912	-4.5438	-0.8307	-0.1501	0.0000	0.0000	0.97778	0.41012	66.395
MSA3C10	118	7.8399	0.9312	128.4582	-4.5693	-0.8532	-0.1501	0.0000	0.0000	0.98077	0.41031	66.545
D4329	119	6.8002	0.7871	134.0497	-4.6724	-0.9440	-0.1501	0.0000	0.0000	0.99398	0.41104	67.150
MBA3C07	120	4.2306	0.0708	162.4683	-4.7673	-1.5072	-0.2258	0.0000	0.0000	1.08838	0.41428	70.150
D4333	121	4.2277	-0.0658	168.0024	-4.8514	-1.6371	-0.2258	0.0000	0.0000	1.11010	0.41483	70.725
IPM3C11	122	4.2277	-0.0658	168.0024	-4.8514	-1.6371	-0.2258	0.0000	0.0000	1.11010	0.41483	70.725
D4306	123	4.2693	-0.1192	170.1895	-4.8842	-1.6878	-0.2258	0.0000	0.0000	1.11852	0.41504	70.950
MQA3C11	124	4.5226	-0.7354	166.9008	15.7124	-1.7870	-0.4374	0.0000	0.0000	1.12946	0.41532	71.250
D4307	125	4.8194	-0.8012	160.8865	15.4255	-1.8715	-0.4374	0.0000	0.0000	1.13605	0.41551	71.443
MBC3C11V	126	4.8194	-0.8012	160.8865	15.4255	-1.8715	-0.4374	0.0000	0.0000	1.13605	0.41551	71.443
D4332	127	5.0706	-0.8530	156.2369	15.2000	-1.9379	-0.4374	0.0000	0.0000	1.14094	0.41566	71.595
MSA3C11	128	5.3341	-0.9041	151.7103	14.9773	-2.0035	-0.4374	0.0000	0.0000	1.14553	0.41582	71.745
D4329	129	6.5528	-1.1102	134.1306	14.0787	-2.2681	-0.4374	0.0000	0.0000	1.16185	0.41649	72.350
MBA3C08	130	16.2937	-2.1421	62.3399	9.7678	-3.6941	-0.5143	0.0000	0.0000	1.20870	0.42171	75.350
D4334	131	17.8542	-2.2635	55.6144	9.2200	-3.8763	-0.5143	0.0000	0.0000	1.21201	0.42267	75.704
IHA3C12A	132	17.8542	-2.2635	55.6144	9.2200	-3.8763	-0.5143	0.0000	0.0000	1.21201	0.42267	75.704
D4335	133	18.8756	-2.3396	51.5987	8.8768	-3.9904	-0.5143	0.0000	0.0000	1.21393	0.42333	75.926
IPM3C12	134	18.8756	-2.3396	51.5987	8.8768	-3.9904	-0.5143	0.0000	0.0000	1.21393	0.42333	75.926
D4336	135	19.9405	-2.4164	47.7012	8.5306	-4.1056	-0.5143	0.0000	0.0000	1.21577	0.42405	76.150
MQA3C12	136	19.9224	2.4753	46.0591	-2.9236	-4.1082	0.4967	0.0000	0.0000	1.21813	0.42508	76.450
D4337	137	17.9780	2.3305	48.4588	-3.0074	-3.9073	0.4967	0.0000	0.0000	1.22154	0.42644	76.855
IOR3C12	138	17.9780	2.3305	48.4588	-3.0074	-3.9073	0.4967	0.0000	0.0000	1.22154	0.42644	76.855
D4338	139	16.4156	2.2074	50.5543	-3.0788	-3.7363	0.4967	0.0000	0.0000	1.22473	0.42755	77.199
IHA3C12B	140	16.4156	2.2074	50.5543	-3.0788	-3.7363	0.4967	0.0000	0.0000	1.22473	0.42755	77.199
D4339	141	14.9097	2.0818	52.7418	-3.1516	-3.5619	0.4967	0.0000	0.0000	1.22830	0.42863	77.550
MBA3C09	142	5.6444	1.0096	73.1688	-3.6384	-2.1854	0.4218	0.0000	0.0000	1.28127	0.43632	80.550
D4340	143	4.2581	0.7234	79.1147	-3.7940	-1.8480	0.4218	0.0000	0.0000	1.30736	0.43800	81.350
MQA3C13	144	3.9889	0.1837	78.7793	4.8998	-1.7513	0.2246	0.0000	0.0000	1.31902	0.43860	81.650
D4307	145	3.9276	0.1336	76.8983	4.8385	-1.7079	0.2246	0.0000	0.0000	1.32679	0.43899	81.843
MBC3C13V	146	3.9276	0.1336	76.8983	4.8385	-1.7079	0.2246	0.0000	0.0000	1.32679	0.43899	81.843
D4332	147	3.8930	0.0943	75.4365	4.7903	-1.6738	0.2246	0.0000	0.0000	1.33297	0.43931	81.995
MSA3C13	148	3.8706	0.0554	74.0066	4.7427	-1.6401	0.2246	0.0000	0.0000	1.33912	0.43963	82.145
D4329	149	3.8984	-0.1014	68.3839	4.5506	-1.5042	0.2246	0.0000	0.0000	1.36401	0.44098	82.750
MBA3C10	150	6.8344	-0.8781	43.6312	3.6772	-0.9432	0.1497	0.0000	0.0000	1.46261	0.44973	85.750
D4333	151	7.9306	-1.0272	39.5100	3.4857	-0.8570	0.1497	0.0000	0.0000	1.47506	0.45193	86.325
IPM3C14	152	7.9306	-1.0272	39.5100	3.4857	-0.8570	0.1497	0.0000	0.0000	1.47506	0.45193	86.325
D4306	153	8.4052	-1.0855	37.9607	3.4109	-0.8234	0.1497	0.0000	0.0000	1.47944	0.45286	86.550
QUAD	154	9.0798	-1.1632	35.9441	3.3111	-0.7784	0.1497	0.0000	0.0000	1.48491	0.45415	86.850
D4328	155	9.9132	-1.2526	33.6992	3.1963	-0.7268	0.1497	0.0000	0.0000	1.49070	0.45573	87.195
MSA3C14	156	10.2948	-1.2915	32.7479	3.1463	-0.7043	0.1497	0.0000	0.0000	1.49306	0.45645	87.345
D4329	157	11.9525	-1.4483	29.0624	2.9450	-0.6137	0.1497	0.0000	0.0000	1.50174	0.45957	87.950
MBA3C11	158	22.9620	-2.2250	14.2750	1.9704	-0.2771	0.0749	0.0000	0.0000	1.53070	0.48309	90.950
D4341	159	26.1710	-2.4046	11.7078	1.7333	-0.2252	0.0749	0.0000	0.0000	1.53520	0.49163	91.643
MKS3C15V	160	26.1710	-2.4046	11.7078	1.7333	-0.2252	0.0749	0.0000	0.0000	1.53520	0.49163	91.643
D4342	161	29.1498	-2.5601	9.7510	1.5281	-0.1802	0.0749	0.0000	0.0000	1.53866	0.50057	92.243
MBC3C15V	162	29.1498	-2.5601	9.7510	1.5281	-0.1802	0.0749	0.0000	0.0000	1.53866	0.50057	92.243
D4343	163	34.0062	-2.7951	7.2608	1.2179	-0.1123	0.0749	0.0000	0.0000	1.54324	0.51776	93.150
MBA3C12	164	53.0893	-3.5719	3.0113	0.1946	-0.0001	0.0000	0.0000	0.0000	1.55448	0.62862	96.150
D4344	165	57.2908	-3.7211	2.9014	-0.0040	-0.0001	0.0000	0.0000	0.0000	1.55614	0.65984	96.726
IPM3C16	166	57.2908	-3.7211	2.9014	-0.0040	-0.0001	0.0000	0.0000	0.0000	1.55614	0.65984	96.726
D4336	167	58.9702	-3.7792	2.9205	-0.0811	-0.0001	0.0000	0.0000	0.0000	1.55675	0.67209	96.950
MQA3C16	168	57.8328	7.4972	3.1747	-0.7824	-0.0001	0.0000	0.0000	0.0000	1.55756	0.68795	97.250
D4307	169	54.9735	7.3061	3.4958	-0.8805	-0.0001	0.0000	0.0000	0.0000	1.55811	0.69719	97.443
MBC3C16H	170	54.9735	7.3061	3.4958	-0.8805	-0.0001	0.0000	0.0000	0.0000	1.55811	0.69719	97.443
D4345	171	32.3998	5.5722	8.1427	-1.7706	0.0000	0.0000	0.0000	0.0000	1.56472	0.75046	99.196
IHA3C17A	172	32.3998	5.5722	8.1427	-1.7706	0.0000	0.0000	0.0000	0.0000	1.56472	0.75046	99.196
D4346	173	27.2685	5.0964	9.9633	-2.0148	0.0000	0.0000	0.0000	0.0000	1.56730	0.75897	99.677
ITV3C17A	174	27.2685	5.0964	9.9633	-2.0148	0.0000	0.0000	0.0000	0.0000	1.56730	0.75897	99.677
D4347	175	25.8740	4.9593	10.5319	-2.0852	0.0000	0.0000	0.0000	0.0000	1.56813	0.76112	99.816
IPM3C17	176	25.8740	4.9593	10.5319	-2.0852	0.0000	0.0000	0.0000	0.0000	1.56813	0.76112	99.816
D4348	177	23.5189	4.7185	11.5768	-2.2088	0.0000	0.0000	0.0000	0.0000	1.56970	0.76463	100.059
MQA3C17	178	21.6709	1.5245	12.4466	-0.6511	0.0000	0.0000	0.0000	0.0000	1.57183	0.76858	100.359
D4349	179	21.0106	1.4909	12.7373	-0.6761	0.0000	0.0000	0.0000	0.0000	1.57346	0.77135	100.578
MBC3C17V	180	21.0106	1.4909	12.7373	-0.6761	0.0000	0.0000	0.0000	0.0000	1.57346	0.77135	100.578
D4350	181	19.5798	1.4154	13.4308	-0.7325	0.0001	0.0000	0.0000	0.0000	1.57732	0.77734	101.070
IHA3C17B	182	19.5798	1.4154	13.4308	-0.7325	0.0001	0.0000	0.0000	0.0000	1.57732	0.77734	101.070
D4351	183	19.1706	1.3931	13.6466	-0.7491	0.0001	0.0000	0.0000	0.0000	1.57852	0.77905	101.216
MBD3H01H	184	18.7561	1.3701	13.8739	-0.7663	0.0000	-0.0003	0.0000	0.0000	1.57978	0.78079	101.366
D4352	185	18.0926	1.3324	14.2571	-0.7944	0.0000	-0.0003	0.0000	0.0000	1.58190	0.78357	101.611
IPM3C17A	186	18.0926	1.3324	14.2571	-0.7944	0.0000	-0.0003	0.0000	0.0000	1.58190	0.78357	101.611
D4306	187	17.5017	1.2979	14.6198	-0.8201	-0.0001	-0.0003	0.0000	0.0000	1.58391	0.78604	101.836
MQA3C18	188	16.7127	1.3309	15.1433	-0.9259	-0.0002	-0.0003	0.0000	0.0000	1.58670	0.78925	102.136
D4307	189	16.2047	1.2989	15.5056	-0.9496	-0.0002	-0.0003	0.0000	0.0000	1.58857	0.79126	102.329
MBC3C18V	190	16.2047	1.2989	15.5056	-0.9496	-0.0002	-0.0003	0.0000	0.0000	1.58857	0.79126	102.329
D4307	191	15.7092	1.2669	15.8770	-0.9733	-0.0003	-0.0003	0.0000	0.0000	1.59050	0.79322	102.522
MBC3C18H	192	15.7092	1.2669	15.8770	-0.9733	-0.0003	-0.0003	0.0000	0.0000	1.59050	0.79322	102.522
D4402	193	14.7222	1.2005	16.6752	-1.0223	-0.0004	-0.0003	0.0000	0.0000	1.59468	0.79713	102.922
IPM3C19	194	14.7222	1.2005	16.6752	-1.0223	-0.0004	-0.0003	0.0000	0.0000	1.59468	0.79713	102.922
D4306	195	14.1912	1.1633	17.1408	-1.0499	-0.0004	-0.0003	0.0000	0.0000	1.59716	0.79925	103.147
MQA3C19	196	13.5483	0.9819	17.7305	-0.9140	-0.0005	-0.0003	0.0000	0.0000	1.60060	0.80198	103.447
D4307	197	13.1744	0.9539	18.0875	-0.9340	-0.0005	-0.0003	0.0000	0.0000	1.60290	0.80370	103.640
MBC3C19V	19											

IPM1P03A	219	7.5838	-0.3428	42.5432	-1.7484	-0.0029	-0.0003	-0.0875	0.0539	1.77975	0.85602	112.633
D4252	220	7.7268	-0.3723	43.2464	-1.7675	-0.0029	-0.0003	-0.0768	0.0539	1.78391	0.85676	112.833
MBT1P04H	221	7.7268	-0.3723	43.2464	-1.7675	-0.0029	-0.0003	-0.0768	0.0539	1.78391	0.85676	112.833
D4253	222	8.3202	-0.4755	45.7676	-1.8342	-0.0031	-0.0003	-0.0390	0.0539	1.79782	0.85926	113.533
MV31P04	223	8.3202	-0.4755	45.7676	-1.8342	-0.0031	-0.0003	-0.0390	0.0539	1.79782	0.85926	113.533
MC1P04	224	10.0529	-0.6874	51.4822	-1.9280	-0.0035	-0.0003	0.0016	0.0003	1.82404	0.86418	115.033
D4254	225	10.9305	-0.7753	53.8288	-1.9830	-0.0037	-0.0003	0.0018	0.0003	1.83316	0.86599	115.633
IPM3C20	226	10.9305	-0.7753	53.8288	-1.9830	-0.0037	-0.0003	0.0018	0.0003	1.83316	0.86599	115.633
D4306	227	11.2862	-0.8082	54.7244	-2.0035	-0.0037	-0.0003	0.0018	0.0003	1.83638	0.86665	115.858
MQA3C20	228	11.9537	-1.4274	55.1328	0.6487	-0.0038	-0.0004	0.0019	0.0002	1.84050	0.86752	116.158
D4307	229	12.5145	-1.4765	54.8832	0.6437	-0.0039	-0.0004	0.0019	0.0002	1.84301	0.86808	116.351
MBC3C20V	230	12.5145	-1.4765	54.8832	0.6437	-0.0039	-0.0004	0.0019	0.0002	1.84301	0.86808	116.351
D4307	231	13.0944	-1.5255	54.6355	0.6387	-0.0040	-0.0004	0.0020	0.0002	1.84541	0.86864	116.544
MBC3C20H	232	13.0944	-1.5255	54.6355	0.6387	-0.0040	-0.0004	0.0020	0.0002	1.84541	0.86864	116.544
D4403	233	13.7147	-1.5764	54.3810	0.6336	-0.0041	-0.0004	0.0020	0.0002	1.84779	0.86922	116.744
IHA3C20	234	13.7147	-1.5764	54.3810	0.6336	-0.0041	-0.0004	0.0020	0.0002	1.84779	0.86922	116.744
D4403	235	14.3555	-1.6272	54.1286	0.6284	-0.0042	-0.0004	0.0020	0.0002	1.85006	0.86981	116.944
IPM3C21	236	14.3555	-1.6272	54.1286	0.6284	-0.0042	-0.0004	0.0020	0.0002	1.85006	0.86981	116.944
D4306	237	15.0994	-1.6843	53.8475	0.6226	-0.0043	-0.0004	0.0021	0.0002	1.85249	0.87047	117.169
MQA3C21	238	15.9288	-1.0686	54.1751	-1.7191	-0.0044	-0.0003	0.0022	0.0003	1.85556	0.87136	117.469
D4307	239	16.3466	-1.0946	54.8419	-1.7332	-0.0044	-0.0003	0.0022	0.0003	1.85746	0.87192	117.662
MBC3C20V	240	16.3466	-1.0946	54.8419	-1.7332	-0.0044	-0.0003	0.0022	0.0003	1.85746	0.87192	117.662
D4307	241	16.7745	-1.1205	55.5141	-1.7473	-0.0045	-0.0003	0.0023	0.0003	1.85932	0.87248	117.855
MBC3C20H	242	16.7745	-1.1205	55.5141	-1.7473	-0.0045	-0.0003	0.0023	0.0003	1.85932	0.87248	117.855
D4402	243	17.6924	-1.1743	56.9236	-1.7765	-0.0046	-0.0003	0.0024	0.0003	1.86302	0.87361	118.255
SOLL	244	17.8362	-1.1825	57.1406	-1.7809	-0.0046	-0.0003	0.0024	0.0003	1.86356	0.87378	118.316
D4354	245	17.9476	-1.1888	57.3082	-1.7844	-0.0046	-0.0003	0.0024	0.0003	1.86398	0.87391	118.363
MOLLER	246	17.9476	-1.1888	57.3082	-1.7844	-0.0046	-0.0003	0.0024	0.0003	1.86398	0.87391	118.363
D4354	247	18.0597	-1.1952	57.4761	-1.7878	-0.0046	-0.0003	0.0024	0.0003	1.86440	0.87404	118.410
SOL2	248	18.2060	-1.2034	57.6945	-1.7923	-0.0046	-0.0003	0.0024	0.0003	1.86493	0.87421	118.471
D4355	249	19.0489	-1.2496	58.9349	-1.8174	-0.0047	-0.0003	0.0025	0.0003	1.86787	0.87515	118.815
MQF3M01	250	21.1747	-4.9054	56.6340	8.2128	-0.0049	-0.0011	0.0026	-0.0002	1.87069	0.87611	119.167
D4356	251	43.0350	-7.0666	30.6714	6.0059	-0.0069	-0.0011	0.0023	-0.0002	1.88032	0.88308	120.993
MQB3M02	252	48.0124	2.3914	25.0973	0.0018	-0.0072	0.0004	0.0023	0.0003	1.88367	0.88897	121.984
D4357	253	27.3054	1.6796	26.1095	-0.2008	-0.0051	0.0004	0.0039	0.0003	1.90611	0.92080	127.070
IPM3C21A	254	27.3054	1.6796	26.1095	-0.2008	-0.0051	0.0004	0.0039	0.0003	1.90611	0.92080	127.070
D4306	255	26.5578	1.6482	26.2017	-0.2098	-0.0051	0.0004	0.0040	0.0003	1.90743	0.92217	127.295
MBD3H02V	256	26.0665	1.6272	26.2655	-0.2155	-0.0050	0.0004	0.0041	0.0015	1.90834	0.92308	127.445
D4364	257	25.9198	1.6209	26.2851	-0.2173	-0.0050	0.0004	0.0042	0.0015	1.90862	0.92335	127.490
MBD3H2AV	258	25.4367	1.5999	26.3511	-0.2230	-0.0049	0.0004	0.0045	0.0027	1.90955	0.92426	127.640
D4364	259	25.2923	1.5935	26.3714	-0.2248	-0.0049	0.0004	0.0047	0.0027	1.90983	0.92453	127.685
MBD3H02H	260	24.8174	1.5726	26.4397	-0.2308	-0.0048	0.0004	0.0051	0.0027	1.91078	0.92544	127.835
D4371	261	23.8862	1.5306	26.5818	-0.2427	-0.0047	0.0004	0.0059	0.0027	1.91275	0.92724	128.135
MFR3C01H	262	23.8862	1.5306	26.5818	-0.2427	-0.0047	0.0004	0.0059	0.0027	1.91275	0.92724	128.135
D4372	263	22.6841	1.4746	26.7824	-0.2587	-0.0045	0.0004	0.0070	0.0027	1.91548	0.92962	128.535
MFR3C01V	264	22.6841	1.4746	26.7824	-0.2587	-0.0045	0.0004	0.0070	0.0027	1.91548	0.92962	128.535
D4306	265	22.0286	1.4431	26.9006	-0.2676	-0.0045	0.0004	0.0076	0.0027	1.91708	0.93096	128.760
IPM3C20A	266	22.0286	1.4431	26.9006	-0.2676	-0.0045	0.0004	0.0076	0.0027	1.91708	0.93096	128.760
D4366	267	21.4049	1.4126	27.0194	-0.2763	-0.0044	0.0004	0.0082	0.0027	1.91868	0.93225	128.979
IBC3C20	268	21.4049	1.4126	27.0194	-0.2763	-0.0044	0.0004	0.0082	0.0027	1.91868	0.93225	128.979
D4367	269	20.4564	1.3648	27.2128	-0.2899	-0.0042	0.0004	0.0091	0.0027	1.92128	0.93425	129.320
IUN3C20	270	20.4564	1.3648	27.2128	-0.2899	-0.0042	0.0004	0.0091	0.0027	1.92128	0.93425	129.320
D4368	271	19.5514	1.3176	27.4130	-0.3034	-0.0041	0.0004	0.0101	0.0027	1.92396	0.93622	129.657
IBC3C20A	272	19.5514	1.3176	27.4130	-0.3034	-0.0041	0.0004	0.0101	0.0027	1.92396	0.93622	129.657
D4369	273	18.8560	1.2801	27.5783	-0.3140	-0.0040	0.0004	0.0108	0.0027	1.92618	0.93777	129.925
IPM3C20	274	18.8560	1.2801	27.5783	-0.3140	-0.0040	0.0004	0.0108	0.0027	1.92618	0.93777	129.925
D4375	275	8.2036	0.3847	33.2279	-0.5689	-0.0013	0.0004	0.0284	0.0027	2.01219	0.97166	136.324
MBD3H04V	276	8.0914	0.3637	33.3994	-0.5746	-0.0013	0.0004	0.0287	0.0015	2.01512	0.97238	136.474
D4376	277	8.0576	0.3572	33.4534	-0.5764	-0.0012	0.0004	0.0288	0.0015	2.01604	0.97260	136.520
MBD3H4AV	278	7.9536	0.3362	33.6272	-0.5821	-0.0012	0.0004	0.0289	0.0003	2.01902	0.97331	136.670
D4377	279	7.1460	0.0000	36.6537	-0.6777	-0.0002	0.0004	0.0297	0.0003	2.07064	0.98421	139.073
MAP3H00H	280	7.1460	0.0000	36.6537	-0.6777	-0.0002	0.0004	0.0297	0.0003	2.07064	0.98421	139.073
D4378	281	7.1579	-0.0409	37.0530	-0.6894	-0.0001	0.0004	0.0298	0.0003	2.07714	0.98547	139.365
IPM3H00A	282	7.1579	-0.0409	37.0530	-0.6894	-0.0001	0.0004	0.0298	0.0003	2.07714	0.98547	139.365
D4379	283	7.1876	-0.0763	37.4044	-0.6994	0.0000	0.0004	0.0298	0.0003	2.08275	0.98656	139.618
IHA3H00	284	7.1876	-0.0763	37.4044	-0.6994	0.0000	0.0004	0.0298	0.0003	2.08275	0.98656	139.618
D4380	285	7.4776	-0.2154	38.8345	-0.7390	0.0004	0.0004	0.0301	0.0003	2.10440	0.99071	140.612
IPM3H00B	286	7.4776	-0.2154	38.8345	-0.7390	0.0004	0.0004	0.0301	0.0003	2.10440	0.99071	140.612
D4381	287	7.5692	-0.2434	39.1312	-0.7470	0.0005	0.0004	0.0302	0.0003	2.10863	0.99152	140.812
ITV3H00	288	7.5692	-0.2434	39.1312	-0.7470	0.0005	0.0004	0.0302	0.0003	2.10863	0.99152	140.812
D4382	289	7.6797	-0.2733	39.4525	-0.7555	0.0006	0.0004	0.0303	0.0003	2.11309	0.99239	141.026
IHA3H00A	290	7.6797	-0.2733	39.4525	-0.7555	0.0006	0.0004	0.0303	0.0003	2.11309	0.99239	141.026
D4379	291	7.8269	-0.3087	39.8373	-0.7656	0.0007	0.0004	0.0304	0.0003	2.11829	0.99340	141.279
IPM3H00C	292	7.8269	-0.3087	39.8373	-0.7656	0.0007	0.0004	0.0304	0.0003	2.11829	0.99340	141.279
D4383	293	8.0567	-0.3570	40.3705	-0.7793	0.0009	0.0004	0.0305	0.0003	2.12521	0.99477	141.624
IBC3H00	294	8.0567	-0.3570	40.3705	-0.7793	0.0009	0.0004	0.0305	0.0003	2.12521	0.99477	141.624
D4384	295	8.9222	-0.4986	41.9880	-0.8196	0.0013	0.0004	0.0308	0.0003	2.14424	0.99869	142.635
IETAT301	296	8.9222	-0.4986	41.9880	-0.8196	0.0013	0.0004	0.0308	0.0003	2.14424	0.99869	142.635
D4385	297	436.2171	-7.7488	233.7830	-2.8823	0.0226	0.0004	0.0469	0.0003	2.30021	1.08627	194.445
IDUMP	298	436.2171	-7.7488	233.7830	-2.8823	0.0226	0.0004	0.0469	0.0003	2.30021	1.08627	194.445

MAXIMUM LATTICE FUNCTIONS :
 BETA X = 0.4362171411E+03 BETA Y = 0.2337829557E+03
 ETA X = 0.2264180341E-01 ETA Y = 0.4689005700E-01

1
 OPERATION LIST ,

MATRIX

1 -1,

AFTER :IDUMP ELEMENT #: 298

 * TRANSFORMATION MATRIX *

FIRST ORDER MATRIX

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- -0.2049264E+01 0.6278712E+02 0.2277727E-15 -0.4574038E-14 0.0000000E+00 0.2264180E-01
- -0.5079587E-01 0.1068347E+01 0.3026446E-17 -0.7162589E-16 0.0000000E+00 0.4124508E-03
- 0.4882955E-15 -0.2943175E-14 0.4142066E+01 0.2494310E+02 0.0000000E+00 0.4689006E-01
- 0.6058390E-17 -0.4157779E-16 0.4039834E-01 0.4847001E+00 0.0000000E+00 0.3110357E-03
- 0.3048894E-03 0.1707284E-02 -0.6059497E-03 -0.1496942E-01 0.1000000E+01 0.6726083E+00
- 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.1000000E+01
```

HORIZONTAL MOVEMENT ANALYSIS

COMPACTION FACTOR = 0.3459124E-02 GAMMA TR = 0.1700266E+02

COS(MU)=-0.49045851593828E+00 NU = 0.33158534153223E+00
ETA = 0.81683212036124E-02 ETAP = 0.36083327896479E-04
ALPHA = -0.17887199109757E+01 BETA = 0.72047824026888E+02

VERTICAL MOVEMENT ANALYSIS

MOVEMENT IS UNSTABLE

HALF-TRACE = 0.23133831001173E+01
EIGENVALUE1 = 0.43994658808114E+01
WITH EIGENVECTOR :
Y = -0.99994675844951E+00 YP = -0.10318927576255E-01
EIGENVALUE2 = 0.22730031942322E+00
WITH EIGENVECTOR :
Y = -0.98790665525735E+00 YP = 0.15504980005869E+00

1
OPERATION LIST ,

HARDWARE

11.023 2379.08 -80.6 99.978 -258.315 180 0.0 0 1 0 ;

VALUES ARE FOR ENERGY : 0.110E+02 GEV

THE LENGTHS ARE MEASURED IN METERS ,THE ANGLES IN DEGREES

THE SKYZ COORDINATES,AZIMUTH,ELEVATION AND ROLL ANGLES ARE :

#	NAME	S	X	Y	Z	THETA	PHI	PSI
1	D4300	2379.5255000000	-80.6000000000	99.9780000000	-258.7605000000	-180.0000000000	0.0000000000	0.0000000000
2	ITV2C00	2379.5255000000	-80.6000000000	99.9780000000	-258.7605000000	-180.0000000000	0.0000000000	0.0000000000
3	D4301	2379.8800000000	-80.6000000000	99.9780000000	-259.1150000000	-180.0000000000	0.0000000000	0.0000000000
4	MLA3C02	2382.1800000000	-80.6321119714	99.9780000000	-261.4147010804	-178.4000000000	0.0000000000	0.0000000000
5	D4302	2383.4430000000	-80.6673770011	99.9780000000	-262.6772086557	-178.4000000000	0.0000000000	0.0000000000
6	MBD3C00V	2383.4430000100	-80.6673770013	99.9780000000	-262.6772086657	-178.4000000000	0.0000000000	0.0000000000
7	D4303	2384.3100000100	-80.6915850621	99.9780000000	-263.5438706355	-178.4000000000	0.0000000000	0.0000000000
8	IPM3C00	2384.3100000100	-80.6915850621	99.9780000000	-263.5438706355	-178.4000000000	0.0000000000	0.0000000000
9	D4304	2385.9430000100	-80.7371810982	99.9780000000	-265.1762339533	-178.4000000000	0.0000000000	0.0000000000
10	MAT3C00H	2385.9430000200	-80.7371810984	99.9780000000	-265.1762339633	-178.4000000000	0.0000000000	0.0000000000
11	MAT3C00V	2385.9430000300	-80.7371810987	99.9780000000	-265.1762339733	-178.4000000000	0.0000000000	0.0000000000
12	MBD3C00A	2385.9430000400	-80.7371810990	99.9780000000	-265.1762339833	-178.4000000000	0.0000000000	0.0000000000
13	D4305	2393.3053500400	-80.9427499758	99.9780000000	-272.5357135138	-178.4000000000	0.0000000000	0.0000000000
14	IPM3C01	2393.3053500400	-80.9427499758	99.9780000000	-272.5357135138	-178.4000000000	0.0000000000	0.0000000000
15	D4306	2393.5300000400	-80.9490225720	99.9780000000	-272.7602759261	-178.4000000000	0.0000000000	0.0000000000
16	MQA3C01	2393.8300000400	-80.9573990636	99.9780000000	-273.0601589606	-178.4000000000	0.0000000000	0.0000000000
17	D4307	2394.0231500400	-80.9627921281	99.9780000000	-273.2532336544	-178.4000000000	0.0000000000	0.0000000000
18	MBC3C01H	2394.0231500500	-80.9627921284	99.9780000000	-273.2532336643	-178.4000000000	0.0000000000	0.0000000000
19	D4308	2395.6053500500	-81.0069697452	99.9780000000	-274.8348167884	-178.4000000000	0.0000000000	0.0000000000
20	IPM3C02	2395.6053500500	-81.0069697452	99.9780000000	-274.8348167884	-178.4000000000	0.0000000000	0.0000000000
21	D4306	2395.8300000500	-81.0132423413	99.9780000000	-275.0593792007	-178.4000000000	0.0000000000	0.0000000000
22	MQA3C02	2396.1300000500	-81.0216188329	99.9780000000	-275.3592622352	-178.4000000000	0.0000000000	0.0000000000
23	D4309	2396.5192400500	-81.0324870516	99.9780000000	-275.7483504764	-178.4000000000	0.0000000000	0.0000000000
24	MAT3C02V	2396.5192400600	-81.0324870519	99.9780000000	-275.7483504864	-178.4000000000	0.0000000000	0.0000000000
25	MBC3C02V	2396.5192400700	-81.0324870522	99.9780000000	-275.7483504964	-178.4000000000	0.0000000000	0.0000000000
26	D4310	2396.6800000700	-81.0369757348	99.9780000000	-275.9090478185	-178.4000000000	0.0000000000	0.0000000000
27	MAT3C02A	2396.6800000800	-81.0369757351	99.9780000000	-275.9090478285	-178.4000000000	0.0000000000	0.0000000000
28	D4311	2397.9053500800	-81.0711895151	99.9780000000	-277.1339200829	-178.4000000000	0.0000000000	0.0000000000
29	IPM3C03	2397.9053500800	-81.0711895151	99.9780000000	-277.1339200829	-178.4000000000	0.0000000000	0.0000000000
30	D4306	2398.1300000800	-81.0774621112	99.9780000000	-277.3584824953	-178.4000000000	0.0000000000	0.0000000000
31	MQA3C03	2398.4300000800	-81.0858386028	99.9780000000	-277.6583655298	-178.4000000000	0.0000000000	0.0000000000
32	D4307	2398.6231500800	-81.0912316674	99.9780000000	-277.8514402235	-178.4000000000	0.0000000000	0.0000000000
33	MBC3C03H	2398.6231500900	-81.0912316676	99.9780000000	-277.8514402335	-178.4000000000	0.0000000000	0.0000000000
34	MAT3C03H	2398.6231501000	-81.0912316679	99.9780000000	-277.8514402435	-178.4000000000	0.0000000000	0.0000000000
35	MAT3C03V	2398.6231501100	-81.0912316682	99.9780000000	-277.8514402535	-178.4000000000	0.0000000000	0.0000000000
36	D4312	2410.4299501100	-81.4208968723	99.9780000000	-289.6536369598	-176.8000000000	0.0000000000	0.0000000000
37	MBN3C04	2411.4299501100	-81.4627711654	99.9780000000	-290.6527273262	-176.8000000000	0.0000000000	0.0000000000
38	D4313	2412.2053001100	-81.5060523693	99.9780000000	-291.4268683727	-176.8000000000	0.0000000000	0.0000000000
39	IPM3C04	2412.2053001100	-81.5060523693	99.9780000000	-291.4268683727	-176.8000000000	0.0000000000	0.0000000000
40	D4306	2412.4299501100	-81.5185926704	99.9780000000	-291.6511680903	-176.8000000000	0.0000000000	0.0000000000
41	MQA3C04	2412.7299501100	-81.5353391219	99.9780000000	-291.9507003196	-176.8000000000	0.0000000000	0.0000000000
42	D4307	2412.9231001100	-81.5461210456	99.9780000000	-292.1435491532	-176.8000000000	0.0000000000	0.0000000000
43	MBC3C04H	2412.9231001200	-81.5461210461	99.9780000000	-292.1435491632	-176.8000000000	0.0000000000	0.0000000000
44	D4314	2413.1299501200	-81.5576677244	99.9780000000	-292.3500766353	-176.8000000000	0.0000000000	0.0000000000
45	MBC3C04V	2413.1299501300	-81.5576677250	99.9780000000	-292.3500766452	-176.8000000000	0.0000000000	0.0000000000
46	D4315	2413.3299501300	-81.5688320260	99.9780000000	-292.5497647981	-176.8000000000	0.0000000000	0.0000000000
47	MAT3C04H	2413.3299501400	-81.5688320265	99.9780000000	-292.5497648081	-176.8000000000	0.0000000000	0.0000000000
48	D4315	2413.5299501400	-81.5799963275	99.9780000000	-292.7494529609	-176.8000000000	0.0000000000	0.0000000000
49	MAT3C04V	2413.5299501500	-81.5799963281	99.9780000000	-292.7494529709	-176.8000000000	0.0000000000	0.0000000000
50	D4316	2415.5053001500	-81.6902633380	99.9780000000	-294.7217229344	-176.8000000000	0.0000000000	0.0000000000
51	IPM3C05	2415.5053001500	-81.6902633380	99.9780000000	-294.7217229344	-176.8000000000	0.0000000000	0.0000000000
52	D4306	2415.7299501500	-81.7028036391	99.9780000000	-294.9460226521	-176.8000000000	0.0000000000	0.0000000000
53	MQA3C05	2416.0299501500	-81.7195500906	99.9780000000	-295.2455548813	-176.8000000000	0.0000000000	0.0000000000

54	D4309	2416.4191901500	-81.7412780532	99.9780000000	-295.6341879644	-176.8000000000	0.0000000000	0.0000000000
55	MAT3C05H	2416.4191901600	-81.7412780537	99.9780000000	-295.6341879744	-176.8000000000	0.0000000000	0.0000000000
56	MBC3C05V	2416.4191901700	-81.7412780543	99.9780000000	-295.6341879844	-176.8000000000	0.0000000000	0.0000000000
57	D4317	2422.8053001700	-82.0977603256	99.9780000000	-302.0103405329	-176.8000000000	0.0000000000	0.0000000000
58	IPM3C06	2422.8053001700	-82.0977603256	99.9780000000	-302.0103405329	-176.8000000000	0.0000000000	0.0000000000
59	D4306	2423.0299501700	-82.1103006267	99.9780000000	-302.2346402506	-176.8000000000	0.0000000000	0.0000000000
60	MQA3C06	2423.3299501700	-82.1270470782	99.9780000000	-302.5341724798	-176.8000000000	0.0000000000	0.0000000000
61	D4307	2423.5231001700	-82.1378290018	99.9780000000	-302.7270213134	-176.8000000000	0.0000000000	0.0000000000
62	MBC3C06H	2423.5231001800	-82.1378290024	99.9780000000	-302.7270213234	-176.8000000000	0.0000000000	0.0000000000
63	D4315	2423.7231001800	-82.1489933034	99.9780000000	-302.9267094763	-176.8000000000	0.0000000000	0.0000000000
64	MBC3C06V	2423.7231001900	-82.1489933040	99.9780000000	-302.9267094862	-176.8000000000	0.0000000000	0.0000000000
65	D4315	2423.9231001900	-82.1601576050	99.9780000000	-303.1263976391	-176.8000000000	0.0000000000	0.0000000000
66	MAT3C06V	2423.9231002000	-82.1601576055	99.9780000000	-303.1263976491	-176.8000000000	0.0000000000	0.0000000000
67	D4315	2424.1231002000	-82.1713219065	99.9780000000	-303.3260858019	-176.8000000000	0.0000000000	0.0000000000
68	MAT3C06H	2424.1231002100	-82.1713219071	99.9780000000	-303.3260858119	-176.8000000000	0.0000000000	0.0000000000
69	D4318	2428.1053002100	-82.3936143043	99.9780000000	-307.3020766230	-176.8000000000	0.0000000000	0.0000000000
70	IPM3C07	2428.1053002100	-82.3936143043	99.9780000000	-307.3020766230	-176.8000000000	0.0000000000	0.0000000000
71	D4306	2428.3299502100	-82.4061546054	99.9780000000	-307.5263763407	-176.8000000000	0.0000000000	0.0000000000
72	MQA3C07	2428.6299502100	-82.4229010568	99.9780000000	-307.8259085699	-176.8000000000	0.0000000000	0.0000000000
73	D4319	2428.8230902100	-82.4336824223	99.9780000000	-308.0187474191	-176.8000000000	0.0000000000	0.0000000000
74	MBC3C07H	2428.8230902200	-82.4336824229	99.9780000000	-308.0187474291	-176.8000000000	0.0000000000	0.0000000000
75	D4320	2429.0191902200	-82.4446290200	99.9780000000	-308.2145416630	-176.8000000000	0.0000000000	0.0000000000
76	MBC3C07V	2429.0191902300	-82.4446290206	99.9780000000	-308.2145416730	-176.8000000000	0.0000000000	0.0000000000
77	D4315	2429.2191902300	-82.4557933216	99.9780000000	-308.4142298258	-176.8000000000	0.0000000000	0.0000000000
78	MAT3C07V	2429.2191902400	-82.4557933221	99.9780000000	-308.4142298358	-176.8000000000	0.0000000000	0.0000000000
79	D4315	2429.4191902400	-82.4669576231	99.9780000000	-308.6139179886	-176.8000000000	0.0000000000	0.0000000000
80	MAT3C07H	2429.4191902500	-82.4669576237	99.9780000000	-308.6139179986	-176.8000000000	0.0000000000	0.0000000000
81	D4321	2431.0803502500	-82.5596860749	99.9780000000	-310.2724878584	-176.8000000000	0.0000000000	0.0000000000
82	IHA3C07A	2431.0803502500	-82.5596860749	99.9780000000	-310.2724878584	-176.8000000000	0.0000000000	0.0000000000
83	D4322	2432.1119302500	-82.6172704230	99.9780000000	-311.3024593819	-176.8000000000	0.0000000000	0.0000000000
84	MRK3C07V	2432.1119302600	-82.6172704236	99.9780000000	-311.3024593919	-176.8000000000	0.0000000000	0.0000000000
85	IPM3C07A	2432.1119302600	-82.6172704236	99.9780000000	-311.3024593919	-176.8000000000	0.0000000000	0.0000000000
86	D4323	2432.3985902600	-82.6332722162	99.9780000000	-311.5886724214	-176.8000000000	0.0000000000	0.0000000000
87	ITV3C07A	2432.3985902600	-82.6332722162	99.9780000000	-311.5886724214	-176.8000000000	0.0000000000	0.0000000000
88	D4324	2432.7363502600	-82.6521264877	99.9780000000	-311.9259057739	-176.8000000000	0.0000000000	0.0000000000
89	MRC3M01V	2432.7363502700	-82.6521264883	99.9780000000	-311.9259057839	-176.8000000000	0.0000000000	0.0000000000
90	D4325	2433.1423502700	-82.6747900193	99.9780000000	-312.3312727341	-176.8000000000	0.0000000000	0.0000000000
91	MRC3M02H	2433.1423502800	-82.6747900199	99.9780000000	-312.3312727441	-176.8000000000	0.0000000000	0.0000000000
92	D4326	2433.5787502800	-82.6991505247	99.9780000000	-312.7669922936	-176.8000000000	0.0000000000	0.0000000000
93	IHA3C07B	2433.5787502800	-82.6991505247	99.9780000000	-312.7669922936	-176.8000000000	0.0000000000	0.0000000000
94	D4327	2434.2053002800	-82.7341254886	99.9780000000	-313.3925653544	-176.8000000000	0.0000000000	0.0000000000
95	MAT3C08H	2434.2053002900	-82.7341254892	99.9780000000	-313.3925653644	-176.8000000000	0.0000000000	0.0000000000
96	IPM3C08	2434.2053002900	-82.7341254892	99.9780000000	-313.3925653644	-176.8000000000	0.0000000000	0.0000000000
97	D4306	2434.4299502900	-82.7466657903	99.9780000000	-313.6168650821	-176.8000000000	0.0000000000	0.0000000000
98	MQA3C08	2434.7299502900	-82.7634122418	99.9780000000	-313.9163973113	-176.8000000000	0.0000000000	0.0000000000
99	D4328	2435.0749202900	-82.7826689864	99.9780000000	-314.2608294217	-176.8000000000	0.0000000000	0.0000000000
100	MSA3C08	2435.2249202900	-82.7910422121	99.9780000000	-314.4105955364	-176.8000000000	0.0000000000	0.0000000000
101	D4329	2435.8299502900	-82.8248158973	99.9780000000	-315.0146821519	-176.8000000000	0.0000000000	0.0000000000
102	MBA3C05	2438.8299502900	-83.1041433463	99.9780000000	-318.0009469094	-172.5125000000	0.0000000000	0.0000000000
103	D4330	2439.1114502900	-83.1408255802	99.9780000000	-318.2800466474	-172.5125000000	0.0000000000	0.0000000000
104	IHA3C09	2439.1114502900	-83.1408255802	99.9780000000	-318.2800466474	-172.5125000000	0.0000000000	0.0000000000
105	D4331	2439.6299502900	-83.2083912578	99.9780000000	-318.7941255608	-172.5125000000	0.0000000000	0.0000000000
106	QUAD	2439.9299502900	-83.2474842247	99.9780000000	-319.0915675550	-172.5125000000	0.0000000000	0.0000000000
107	D4307	2440.1231002900	-83.2726535798	99.9780000000	-319.2830706257	-172.5125000000	0.0000000000	0.0000000000
108	MBC3C09V	2440.1231003000	-83.2726535811	99.9780000000	-319.2830706356	-172.5125000000	0.0000000000	0.0000000000
109	D4332	2440.2749203000	-83.2924372285	99.9780000000	-319.4335961141	-172.5125000000	0.0000000000	0.0000000000
110	MSA3C09	2440.4249203000	-83.3119837119	99.9780000000	-319.5823171113	-172.5125000000	0.0000000000	0.0000000000
111	D4329	2441.0299503000	-83.3908251043	99.9780000000	-320.1821882106	-172.5125000000	0.0000000000	0.0000000000
112	MBA3C06	2444.0299503000	-83.8926275026	99.9780000000	-323.1392129617	-168.2250000000	0.0000000000	0.0000000000
113	D4333	2444.6053003000	-84.0100385562	99.9780000000	-323.7024555977	-168.2250000000	0.0000000000	0.0000000000
114	IPM3C10	2444.6053003000	-84.0100385562	99.9780000000	-323.7024555977	-168.2250000000	0.0000000000	0.0000000000
115	D4306	2444.8299503000	-84.0558826393	99.9780000000	-323.9223781808	-168.2250000000	0.0000000000	0.0000000000
116	QUAD	2445.1299503000	-84.1170133156	99.9780000000	-324.2160651379	-168.2250000000	0.0000000000	0.0000000000
117	D4328	2445.4749203000	-84.1875009713	99.9780000000	-324.5537757699	-168.2250000000	0.0000000000	0.0000000000
118	MSA3C10	2445.6249203000	-84.2181113094	99.9780000000	-324.7006192485	-168.2250000000	0.0000000000	0.0000000000
119	D4329	2446.2299503000	-84.3415791286	99.9780000000	-325.2929173141	-168.2250000000	0.0000000000	0.0000000000
120	MBA3C07	2449.2299503000	-85.0630478556	99.9780000000	-328.2041513998	-163.9375000000	0.0000000000	0.0000000000
121	D4333	2449.8053003000	-85.2222390108	99.9780000000	-328.7570399949	-163.9375000000	0.0000000000	0.0000000000
122	IPM3C11	2449.8053003000	-85.2222390108	99.9780000000	-328.7570399949	-163.9375000000	0.0000000000	0.0000000000
123	D4306	2450.0299503000	-85.2843964680	99.9780000000	-328.9729197601	-163.9375000000	0.0000000000	0.0000000000
124	MQA3C11	2450.3299503000	-85.3674021976	99.9780000000	-329.2612078952	-163.9375000000	0.0000000000	0.0000000000
125	D4307	2450.5231003000	-85.4208440532	99.9780000000	-329.4468174062	-163.9375000000	0.0000000000	0.0000000000
126	MBC3C11V	2450.5231003100	-85.4208440560	99.9780000000	-329.4468174158	-163.9375000000	0.0000000000	0.0000000000
127	D4332	2450.6749203100	-85.4628550489	99.9780000000	-329.5927104314	-163.9375000000	0.0000000000	0.0000000000
128	MSA3C11	2450.8249203100	-85.5043533537	99.9780000000	-329.7368544989	-163.9375000000	0.0000000000	0.0000000000
129	D4329	2451.4299503100	-85.6717565424	99.9780000000	-330.3182644002	-163.9375000000	0.0000000000	0.0000000000
130	MBA3C08	2454.4299503100	-86.6088534909	99.9780000000	-333.1674134548	-159.6500000000	0.0000000000	0.0000000000
131	D4334	2454.7841503100	-86.7320279513	99.9780000000	-333.4995063519	-159.6500000000	0.0000000000	0.0000000000
132	IHA3C12A	2454.7841503100	-86.7320279513	99.9780000000	-333.4995063519	-159.6500000000	0.0000000000	0.0000000000
133	D4335	2455.0060503100	-86.8091945599	99.9780000000	-333.7075566451	-159.6500000000	0.0000000000	0.0000000000
134	IPM3C12	2455.0060503100	-86.8091945599	99.9780000000	-333.7075566451	-159.6500000000	0.0000000000	0.0000000000
135	D4336	2455.2299503100	-86.8870566764	99.9780000000	-333.9174821100	-159.650000000		

158	MBA3C11	2470.0299503200	-93.4018590914	99.9780000000	-347.1731185520	-146.7875000000	0.0000000000	0.0000000000
159	D4341	2470.7231003200	-93.7815290678	99.9780000000	-347.7530389185	-146.7875000000	0.0000000000	0.0000000000
160	MKS3C15V	2470.7231003300	-93.7815290733	99.9780000000	-347.7530389269	-146.7875000000	0.0000000000	0.0000000000
161	D4342	2471.3231003300	-94.1101765317	99.9780000000	-348.2550258272	-146.7875000000	0.0000000000	0.0000000000
162	MBC3C15V	2471.3231003400	-94.1101765372	99.9780000000	-348.2550258355	-146.7875000000	0.0000000000	0.0000000000
163	D4343	2472.2299503400	-94.6068997834	99.9780000000	-349.0137372030	-146.7875000000	0.0000000000	0.0000000000
164	MBA3C12	2475.2299503400	-96.3424705350	99.9780000000	-351.4598760364	-142.5000000000	0.0000000000	0.0000000000
165	D4344	2475.8060503400	-96.6931779943	99.9780000000	-351.9169268957	-142.5000000000	0.0000000000	0.0000000000
166	IPM3C16	2475.8060503400	-96.6931779943	99.9780000000	-351.9169268957	-142.5000000000	0.0000000000	0.0000000000
167	D4336	2476.0299503400	-96.8294796782	99.9780000000	-352.0945587086	-142.5000000000	0.0000000000	0.0000000000
168	MQA3C16	2476.3299503400	-97.0121081069	99.9780000000	-352.3325647107	-142.5000000000	0.0000000000	0.0000000000
169	D4307	2476.5211003400	-97.1296903770	99.9780000000	-352.4858009084	-142.5000000000	0.0000000000	0.0000000000
170	MBC3C16H	2476.5211003500	-97.1296903830	99.9780000000	-352.4858009163	-142.5000000000	0.0000000000	0.0000000000
171	D4345	2478.2759503500	-98.1967578539	99.9780000000	-353.8764303188	-142.5000000000	0.0000000000	0.0000000000
172	IHA3C17A	2478.2759503500	-98.1967578539	99.9780000000	-353.8764303188	-142.5000000000	0.0000000000	0.0000000000
173	D4346	2478.7569203500	-98.4895538384	99.9780000000	-354.2580094749	-142.5000000000	0.0000000000	0.0000000000
174	ITV3C17A	2478.7569203500	-98.4895538384	99.9780000000	-354.2580094749	-142.5000000000	0.0000000000	0.0000000000
175	D4347	2478.8956003500	-98.5739768734	99.9780000000	-354.3680317162	-142.5000000000	0.0000000000	0.0000000000
176	IPM3C17	2478.8956003500	-98.5739768734	99.9780000000	-354.3680317162	-142.5000000000	0.0000000000	0.0000000000
177	D4348	2479.1389503500	-98.7221189671	99.9780000000	-354.5610942515	-142.5000000000	0.0000000000	0.0000000000
178	MQA3C17	2479.4389503500	-98.9047473958	99.9780000000	-354.7991002536	-142.5000000000	0.0000000000	0.0000000000
179	D4349	2479.6579503500	-99.0380661488	99.9780000000	-354.9728446351	-142.5000000000	0.0000000000	0.0000000000
180	MBC3C17V	2479.6579503600	-99.0380661549	99.9780000000	-354.9728446431	-142.5000000000	0.0000000000	0.0000000000
181	D4350	2480.1502503600	-99.3377594064	99.9780000000	-355.3634124925	-142.5000000000	0.0000000000	0.0000000000
182	IHA3C17B	2480.1502503600	-99.3377594064	99.9780000000	-355.3634124925	-142.5000000000	0.0000000000	0.0000000000
183	D4351	2480.2959503600	-99.4264559466	99.9780000000	-355.4790040742	-142.5000000000	0.0000000000	0.0000000000
184	MBD3H01H	2480.4459503600	-99.5177875647	99.9780000000	-355.7979937181	-142.4832401000	0.0000000000	0.0000000000
185	D4352	2480.6914503600	-99.6672954619	99.9780000000	-355.7927182381	-142.4832401000	0.0000000000	0.0000000000
186	IPM3C17A	2480.6914503600	-99.6672954619	99.9780000000	-355.7927182381	-142.4832401000	0.0000000000	0.0000000000
187	D4306	2480.9161003600	-99.8041058451	99.9780000000	-356.9709050545	-142.4832401000	0.0000000000	0.0000000000
188	MQA3C18	2481.2161003600	-99.9868038865	99.9780000000	-356.2088576247	-142.4832401000	0.0000000000	0.0000000000
189	D4307	2481.4092503600	-100.1044309754	99.9780000000	-356.3620594212	-142.4832401000	0.0000000000	0.0000000000
190	MBC3C18V	2481.4092503700	-100.1044309815	99.9780000000	-356.3620594292	-142.4832401000	0.0000000000	0.0000000000
191	D4307	2481.6024003700	-100.2220580704	99.9780000000	-356.5152612257	-142.4832401000	0.0000000000	0.0000000000
192	MBC3C18H	2481.6024003800	-100.2220580765	99.9780000000	-356.5152612336	-142.4832401000	0.0000000000	0.0000000000
193	D4402	2482.0024003800	-100.4656554649	99.9780000000	-356.8325313273	-142.4832401000	0.0000000000	0.0000000000
194	IPM3C19	2482.0024003800	-100.4656554649	99.9780000000	-356.8325313273	-142.4832401000	0.0000000000	0.0000000000
195	D4306	2482.2270503800	-100.6024658482	99.9780000000	-357.0107181437	-142.4832401000	0.0000000000	0.0000000000
196	MQA3C19	2482.5270503800	-100.7851638895	99.9780000000	-357.2486707139	-142.4832401000	0.0000000000	0.0000000000
197	D4307	2482.7202003800	-100.9027909785	99.9780000000	-357.4018725104	-142.4832401000	0.0000000000	0.0000000000
198	MBC3C19V	2482.7202003900	-100.9027909846	99.9780000000	-357.4018725184	-142.4832401000	0.0000000000	0.0000000000
199	D4307	2482.9133503900	-101.0204180735	99.9780000000	-357.5550743149	-142.4832401000	0.0000000000	0.0000000000
200	MBC3C19H	2482.9133504000	-101.0204180796	99.9780000000	-357.5550743228	-142.4832401000	0.0000000000	0.0000000000
201	D4402	2483.3133504000	-101.2640154680	99.9780000000	-357.8723444165	-142.4832401000	0.0000000000	0.0000000000
202	MVSI1P01	2483.3133504100	-101.2640154741	99.9780000000	-357.8723444244	-142.4832401000	0.0000000000	0.0000000000
203	MMCI1P01	2484.8133504100	-102.1770684749	99.9378158208	-359.0615378431	-142.4832401000	-3.0705800000	0.0000000000
204	D4246	2485.4133504100	-102.5419399609	99.9056761720	-359.5367597299	-142.4832401000	-3.0705800000	0.0000000000
205	MBTI1P01H	2485.4133504200	-102.5419399670	99.9056761715	-359.5367597378	-142.4832401000	-3.0705800000	0.0000000000
206	D4247	2486.1133504200	-102.9676233673	99.8681799145	-360.0911852724	-142.4832401000	-3.0705800000	0.0000000000
207	MVSI1P02	2486.1133504300	-102.9676233734	99.8681799139	-360.0911852804	-142.4832401000	-3.0705800000	0.0000000000
208	MMCI1P02	2487.6133504300	-103.8806763743	99.8279957348	-361.2803786991	-142.4832401000	0.0000000000	0.0000000000
209	D4248	2487.9133504300	-104.0633744156	99.8279957348	-361.5183312693	-142.4832401000	0.0000000000	0.0000000000
210	IPMI1P02A	2487.9133504300	-104.0633744156	99.8279957348	-361.5183312693	-142.4832401000	0.0000000000	0.0000000000
211	D4249A	2488.7133504300	-104.5505691924	99.8279957348	-362.1528714567	-142.4832401000	0.0000000000	0.0000000000
212	MATCH	2488.7133504300	-104.5505691924	99.8279957348	-362.1528714567	-142.4832401000	0.0000000000	0.0000000000
213	D4249A	2489.5133504300	-105.0377639693	99.8279957348	-362.7874116441	-142.4832401000	0.0000000000	0.0000000000
214	IPMI1P02B	2489.5133504300	-105.0377639693	99.8279957348	-362.7874116441	-142.4832401000	0.0000000000	0.0000000000
215	D4250	2489.8133504300	-105.2204620106	99.8279957348	-363.0253642144	-142.4832401000	0.0000000000	0.0000000000
216	MVSI1P03	2489.8133504400	-105.2204620167	99.8279957348	-363.0253642223	-142.4832401000	0.0000000000	0.0000000000
217	MMCI1P03	2491.3133504400	-106.1335150176	99.8681799139	-364.2145576410	-142.4832401000	3.0705800000	0.0000000000
218	D4251	2491.7133504400	-106.3767626749	99.8896063465	-364.5313722322	-142.4832401000	3.0705800000	0.0000000000
219	IPMI1P03A	2491.7133504400	-106.3767626749	99.8896063465	-364.5313722322	-142.4832401000	3.0705800000	0.0000000000
220	D4252	2491.9133504400	-106.4983865035	99.9003195628	-364.6897795278	-142.4832401000	3.0705800000	0.0000000000
221	MBTI1P04H	2491.9133504500	-106.4983865096	99.9003195633	-364.6897795357	-142.4832401000	3.0705800000	0.0000000000
222	D4253	2492.6133504500	-106.9240699099	99.9378158203	-365.2442050703	-142.4832401000	3.0705800000	0.0000000000
223	MVSI1P04	2492.6133504600	-106.9240699160	99.9378158208	-365.2442050783	-142.4832401000	3.0705800000	0.0000000000
224	MMCI1P04	2494.1133504600	-107.8371229169	99.9780000000	-366.4333984970	-142.4832401000	0.0000000000	0.0000000000
225	D4254	2494.7133504600	-108.2025189995	99.9780000000	-366.9093036375	-142.4832401000	0.0000000000	0.0000000000
226	IPM3C20	2494.7133504600	-108.2025189995	99.9780000000	-366.9093036375	-142.4832401000	0.0000000000	0.0000000000
227	D4306	2494.9380004600	-108.3393293828	99.9780000000	-367.0874904539	-142.4832401000	0.0000000000	0.0000000000
228	MQA3C20	2495.2380004600	-108.5220274241	99.9780000000	-367.3254430242	-142.4832401000	0.0000000000	0.0000000000
229	D4307	2495.4311504600	-108.6396545130	99.9780000000	-367.4786448207	-142.4832401000	0.0000000000	0.0000000000
230	MBC3C20V	2495.4311504700	-108.6396545191	99.9780000000	-367.4786448286	-142.4832401000	0.0000000000	0.0000000000
231	D4307	2495.6243004700	-108.7572816081	99.9780000000	-367.6318466251	-142.4832401000	0.0000000000	0.0000000000
232	MBC3C20H	2495.6243004800	-108.7572816142	99.9780000000	-367.6318466330	-142.4832401000	0.0000000000	0.0000000000
233	D4403	2495.8243004800	-108.8790803084	99.9780000000	-367.7904816799	-142.4832401000	0.0000000000	0.0000000000
234	IHA3C20	2495.8243004800	-108.8790803084	99.9780000000	-367.7904816799	-142.4832401000	0.0000000000	0.0000000000
235	D4403	2496.0243004800	-109.0008790026	99.9780000000	-367.9491167267	-142.4832401000	0.0000000000	0.0000000000
236	IPM3C21	2496.0243004800	-109.0008790026	99.9780000000	-367.9491167267	-142.4832401000	0.0000000000	0.0000000000
237	D4306	2496.2489504800	-109.1376893858	99.9780000000	-368.1273035431	-142.4832401000	0.0000000000	0.0000000000
238	MQA3C21	2496.5489504800	-109.3203874272	99.9780000000	-368.3652561133	-142.4832401000	0.0000000000	0.0000000000

262	MFR3C01H	2507.2154405100	-115.8162091183	99.9796271247	-376.8256504136	-142.4832401000	0.1395840000	0.0000000000
263	D4372	2507.6154405100	-116.0598057839	99.9806016039	-377.1429195658	-142.4832401000	0.1395840000	0.0000000000
264	MFR3C01V	2507.6154405200	-116.0598057899	99.9806016039	-377.1429195737	-142.4832401000	0.1395840000	0.0000000000
265	D4306	2507.8400905200	-116.1966157672	99.9811488958	-377.3211058613	-142.4832401000	0.1395840000	0.0000000000
266	IPM3C20A	2507.8400905200	-116.1966157672	99.9811488958	-377.3211058613	-142.4832401000	0.1395840000	0.0000000000
267	D4366	2508.0585005200	-116.3296256365	99.9816809858	-377.4943427501	-142.4832401000	0.1395840000	0.0000000000
268	IBC3C20	2508.0585005200	-116.3296256365	99.9816809858	-377.4943427501	-142.4832401000	0.1395840000	0.0000000000
269	D4367	2508.4000005200	-116.5375962897	99.9825129474	-377.7652112888	-142.4832401000	0.1395840000	0.0000000000
270	IUN3C20	2508.4000005200	-116.5375962897	99.9825129474	-377.7652112888	-142.4832401000	0.1395840000	0.0000000000
271	D4368	2508.7374005200	-116.7430700771	99.9833349206	-378.0328278187	-142.4832401000	0.1395840000	0.0000000000
272	IBC3C20A	2508.7374005200	-116.7430700771	99.9833349206	-378.0328278187	-142.4832401000	0.1395840000	0.0000000000
273	D4369	2509.0051005200	-116.9060971455	99.9839870908	-378.2451601988	-142.4832401000	0.1395840000	0.0000000000
274	IPM3C20	2509.0051005200	-116.9060971455	99.9839870908	-378.2451601988	-142.4832401000	0.1395840000	0.0000000000
275	D4375	2515.4035805200	-120.8027181269	99.9995750548	-383.3202610109	-142.4832401000	0.1395840000	0.0000000000
276	MBD3H04V	2515.5535805200	-120.8940669894	99.9998491272	-383.4392370901	-142.4832401000	0.0697920000	0.0000000000
277	D4376	2515.6004305200	-120.9225983123	99.9999061951	-383.4763973223	-142.4832401000	0.0697920000	0.0000000000
278	MBD3H4AV	2515.7504305200	-121.0139473104	99.9999755526	-383.5953735780	-142.4832401000	0.0000000000	0.0000000000
279	D4377	2518.1528105200	-122.4769810454	99.9999975526	-385.5008818972	-142.4832401000	0.0000000000	0.0000000000
280	MAP3H00H	2518.1528105300	-122.4769810515	99.9999975526	-385.5008819051	-142.4832401000	0.0000000000	0.0000000000
281	D4378	2518.4449105300	-122.6548680444	99.9999975526	-385.7325683911	-142.4832401000	0.0000000000	0.0000000000
282	IPM3H00A	2518.4449105300	-122.6548680444	99.9999975526	-385.7325683911	-142.4832401000	0.0000000000	0.0000000000
283	D4379	2518.6978905300	-122.8089312127	99.9999975526	-385.9332258618	-142.4832401000	0.0000000000	0.0000000000
284	IHA3H00	2518.6978905300	-122.8089312127	99.9999975526	-385.9332258618	-142.4832401000	0.0000000000	0.0000000000
285	D4380	2519.6920905300	-123.4143925216	99.9999975526	-386.7218006797	-142.4832401000	0.0000000000	0.0000000000
286	IPM3H00B	2519.6920905300	-123.4143925216	99.9999975526	-386.7218006797	-142.4832401000	0.0000000000	0.0000000000
287	D4381	2519.8917805300	-123.5360024279	99.9999975526	-386.8801898422	-142.4832401000	0.0000000000	0.0000000000
288	ITV3H00	2519.8917805300	-123.5360024279	99.9999975526	-386.8801898422	-142.4832401000	0.0000000000	0.0000000000
289	D4382	2520.1056505300	-123.6662478615	99.9999975526	-387.0498262296	-142.4832401000	0.0000000000	0.0000000000
290	IHA3H00A	2520.1056505300	-123.6662478615	99.9999975526	-387.0498262296	-142.4832401000	0.0000000000	0.0000000000
291	D4379	2520.3586305300	-123.8203110298	99.9999975526	-387.2504837003	-142.4832401000	0.0000000000	0.0000000000
292	IPM3H00C	2520.3586305300	-123.8203110298	99.9999975526	-387.2504837003	-142.4832401000	0.0000000000	0.0000000000
293	D4383	2520.7037905300	-124.0305112163	99.9999975526	-387.5242560642	-142.4832401000	0.0000000000	0.0000000000
294	IBC3H00	2520.7037905300	-124.0305112163	99.9999975526	-387.5242560642	-142.4832401000	0.0000000000	0.0000000000
295	D4384	2521.7154405300	-124.6465994613	99.9999975526	-388.3266717899	-142.4832401000	0.0000000000	0.0000000000
296	IRTAT301	2521.7154405300	-124.6465994613	99.9999975526	-388.3266717899	-142.4832401000	0.0000000000	0.0000000000
297	D4385	2573.5254405300	-156.1985511969	99.9999975526	-429.4210806757	-142.4832401000	0.0000000000	0.0000000000
298	IDUMP	2573.5254405300	-156.1985511969	99.9999975526	-429.4210806757	-142.4832401000	0.0000000000	0.0000000000

1

STOP

hallD_CDR.outd

IDIMAT VERSION 2.9 PROD
ODATE AND TIME OF THIS RUN: 12-JUN-2007 13:00:40

XSIF Parser Version 2.1
Version Date: 01-JAN-2004
Run: 12-JUN-2007 13:00:40
XSIF Parser developed by NLC Department,
Stanford Linear Accelerator Center.

UTRANSPORT

TITLE
CONVERTED FROM ../.././OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//HALLD_CDR.OPT

5
D11000: DRIFT, L=0
MAQ1S01: SBEND, L=1.00017, ANGLE=1.82833, K1=-0, &
E1=0, E2=1.82833, HGAP=0.0190844, &
HGAPX=0.0190844, &
FINT=0.5, TILT=90
10
D11001: DRIFT, L=1.00051
MAS3S02: SBEND, L=1.00113, ANGLE=-1.68939, K1=-0, &
E1=1.82833, E2=-3.51772, HGAP=0.023894, &
HGAPX=0.023894, &
FINT=0.5, TILT=90
15
D11002: DRIFT, L=0.88354
MYR7S03: SBEND, L=3.00189, ANGLE=3.51771, K1=-0, &
E1=3.51772, E2=0, HGAP=0.0126656, &
HGAPX=0.0126656, &
FINT=0.5, TILT=90
20
D11003: DRIFT, L=0.60001
MYR9S04: SBEND, L=2.0002, ANGLE=-1.39524, K1=-0, &
E1=-0, E2=-1.39524, HGAP=0.0127, &
HGAPX=0.0127, &
FINT=0.5, TILT=90
25
D11004: DRIFT, L=0.60017
MYRBS05: SBEND, L=2.00006, ANGLE=-1.59855, K1=-0, &
E1=-0.799274, E2=-0.799274, HGAP=0.0126938, &
HGAPX=0.0126938, &
FINT=0.5, TILT=90
30
D11005: DRIFT, L=4.6564
DQUAD: DRIFT, L=0.3
D11006: DRIFT, L=3.30285
IPMBS02: MONITOR, L=0
35
MQCBS02: QUADRUPOLE, L=0.3, K1=-0.0214091, TILT=0
MBDBS02H: GKICK, L=0, DXP=0, DYP=0
MBDBS02V: GKICK, L=0, DXP=0, DYP=0
D11007: DRIFT, L=2.41344
MBBBS06: SBEND, L=2.00023, ANGLE=2.99379, K1=-0, &
40
E1=1.4969, E2=1.4969, HGAP=0.0126784, &
HGAPX=0.0126784, &
FINT=0.5, TILT=90
D11008: DRIFT, L=5.45718
IPMBS03: MONITOR, L=0
45
MQCBS03: QUADRUPOLE, L=0.3, K1=-0.164832, TILT=0
MBDBS03H: GKICK, L=0, DXP=0, DYP=0

MBBS03V: GKICK, L=0, DXP=0, DYP=0
 D11009: DRIFT, L=4.69103
 IPMS04: MONITOR, L=0
 50 MQCBS04: QUADRUPOLE, L=0.3, K1=0.169782, TILT=0
 MBBS04H: GKICK, L=0, DXP=0, DYP=0
 MBBS04V: GKICK, L=0, DXP=0, DYP=0
 D11012: DRIFT, L=43.192
 IPMBE01: MONITOR, L=0
 55 MQABE01: QUADRUPOLE, L=0.3, K1=0.248517, TILT=0
 MBDE01H: GKICK, L=0, DXP=0, DYP=0
 MBDE01V: GKICK, L=0, DXP=0, DYP=0
 D11013: DRIFT, L=2
 IPMBE02: MONITOR, L=0
 60 MQABE02: QUADRUPOLE, L=0.3, K1=-0.438152, TILT=0
 MBDE02H: GKICK, L=0, DXP=0, DYP=0
 MBDE02V: GKICK, L=0, DXP=0, DYP=0
 IPMBE03: MONITOR, L=0
 MQABE03: QUADRUPOLE, L=0.3, K1=0.421452, TILT=0
 65 MBDE03H: GKICK, L=0, DXP=0, DYP=0
 MBDE03V: GKICK, L=0, DXP=0, DYP=0
 IPMBE04: MONITOR, L=0
 MQABE04: QUADRUPOLE, L=0.3, K1=-0.0593991, TILT=0
 MBDE04H: GKICK, L=0, DXP=0, DYP=0
 70 MBDE04V: GKICK, L=0, DXP=0, DYP=0
 D11021: DRIFT, L=14.77
 IPMBT01: MONITOR, L=0
 MQABT01: QUADRUPOLE, L=0.3, K1=-0.111373, TILT=0
 MBDBT01H: GKICK, L=0, DXP=0, DYP=0
 75 MBDBT01V: GKICK, L=0, DXP=0, DYP=0
 D11022: DRIFT, L=2
 IPMBT02: MONITOR, L=0
 MQABT02: QUADRUPOLE, L=0.3, K1=0.392695, TILT=0
 MBDBT02H: GKICK, L=0, DXP=0, DYP=0
 80 MBDBT02V: GKICK, L=0, DXP=0, DYP=0
 D11017: DRIFT, L=2
 IPMBT03: MONITOR, L=0
 MQABT03: QUADRUPOLE, L=0.3, K1=-0.752855, TILT=0
 MBDBT03H: GKICK, L=0, DXP=0, DYP=0
 85 MBDBT03V: GKICK, L=0, DXP=0, DYP=0
 D11018: DRIFT, L=2
 IPMBT04: MONITOR, L=0
 MQABT04: QUADRUPOLE, L=0.3, K1=0.540606, TILT=0
 MBDBT04H: GKICK, L=0, DXP=0, DYP=0
 90 MBDBT04V: GKICK, L=0, DXP=0, DYP=0
 D11019: DRIFT, L=24.9363
 MARSC01: SBEND, L=4.00011, ANGLE=5.00387, K1=-0, &
 E1=2.805, E2=2.805, HGAP=0.0126295, &
 HGAPX=0.0126295, &
 95 FINT=0.5, TILT=90
 D11015: DRIFT, L=0.5
 MARSC02: SBEND, L=4.00011, ANGLE=5.00387, K1=-0, &
 E1=2.805, E2=2.805, HGAP=0.0126295, &
 HGAPX=0.0126295, &
 100 FINT=0.5, TILT=90
 D4002: DRIFT, L=1.9
 IPMSC01: MONITOR, L=0
 MQASC01: QUADRUPOLE, L=0.3, K1=0.557361, TILT=0
 MBDS01H: GKICK, L=0, DXP=0, DYP=0
 105 MBDS01V: GKICK, L=0, DXP=0, DYP=0
 D4005: DRIFT, L=0.75
 IPMSC02: MONITOR, L=0
 MQASC02: QUADRUPOLE, L=0.3, K1=-0.830193, TILT=0
 D4004: DRIFT, L=0.2
 110 MQASC02A: QUADRUPOLE, L=0.3, K1=-0.819367, TILT=0
 MBDS02H: GKICK, L=0, DXP=0, DYP=0
 MBDS02V: GKICK, L=0, DXP=0, DYP=0
 D4006: DRIFT, L=0.75
 IPMSC04: MONITOR, L=0
 115 MQASC03: QUADRUPOLE, L=0.3, K1=0.487864, TILT=0
 MBDS03H: GKICK, L=0, DXP=0, DYP=0
 MBDS03V: GKICK, L=0, DXP=0, DYP=0
 D4003: DRIFT, L=2.8
 MQASC04: QUADRUPOLE, L=0.3, K1=0, TILT=0
 120 MBDS04H: GKICK, L=0, DXP=0, DYP=0
 MBDS04V: GKICK, L=0, DXP=0, DYP=0
 D4007: DRIFT, L=2.05
 IPMSC05: MONITOR, L=0
 MQASC05: QUADRUPOLE, L=0.3, K1=0.989984, TILT=0
 125 MBDS05H: GKICK, L=0, DXP=0, DYP=0
 MBDS05V: GKICK, L=0, DXP=0, DYP=0
 D4011: DRIFT, L=0.75
 IPMSC06: MONITOR, L=0
 MQASC06: QUADRUPOLE, L=0.3, K1=-0.989984, TILT=0
 130 MQASC06A: QUADRUPOLE, L=0.3, K1=-0.989984, TILT=0
 MBDS06H: GKICK, L=0, DXP=0, DYP=0
 MBDS06V: GKICK, L=0, DXP=0, DYP=0
 D4012: DRIFT, L=0.75
 IPMSC07: MONITOR, L=0
 135 MQASC07: QUADRUPOLE, L=0.3, K1=0.902784, TILT=0
 MBDS07H: GKICK, L=0, DXP=0, DYP=0
 MBDS07V: GKICK, L=0, DXP=0, DYP=0
 D4009: DRIFT, L=3.75
 IPMSC08: MONITOR, L=0
 140 MQASC08: QUADRUPOLE, L=0.3, K1=0.495685, TILT=0
 MBDS08H: GKICK, L=0, DXP=0, DYP=0
 MBDS08V: GKICK, L=0, DXP=0, DYP=0
 IPMSC09: MONITOR, L=0
 MQASC09: QUADRUPOLE, L=0.3, K1=-0.734987, TILT=0
 145 MQASC09A: QUADRUPOLE, L=0.3, K1=-0.79622, TILT=0
 MBDS09H: GKICK, L=0, DXP=0, DYP=0
 MBDS09V: GKICK, L=0, DXP=0, DYP=0
 IPMSC10: MONITOR, L=0
 150 MQASC10: QUADRUPOLE, L=0.3, K1=0.501972, TILT=0
 MBDS10H: GKICK, L=0, DXP=0, DYP=0

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MBD5C10V: GKICK, L=0, DXP=0, DYP=0
D4031: DRIFT, L=1.9
MAR5C03: SBEND, L=4.00011, ANGLE=-5.00387, K1=-0, &
E1=-2.805, E2=-2.805, HGAP=0.0126295, &
155   HGAPX=0.0126295, &
      FINTE=0.5, TILT=90
MAR5C04: SBEND, L=4.00011, ANGLE=-5.00387, K1=-0, &
E1=-2.805, E2=-2.805, HGAP=0.0126295, &
      HGAPX=0.0126295, &
160   FINTE=0.5, TILT=90
D4023: DRIFT, L=0.95
IPM5C11: MONITOR, L=0
MQP5C11: QUADRUPOLE, L=0.3, K1=0, TILT=0
D4039: DRIFT, L=0.2
165   MQP5C11A: QUADRUPOLE, L=0.3, K1=-0.182528, TILT=0
      MBD5C11H: GKICK, L=0, DXP=0, DYP=0
      MBD5C11V: GKICK, L=0, DXP=0, DYP=0
      D4038: DRIFT, L=1.75
      IPM5C12: MONITOR, L=0
170   MQP5C12: QUADRUPOLE, L=0.3, K1=0, TILT=0
      MQP5C12A: QUADRUPOLE, L=0.3, K1=0.0762288, TILT=0
      MBD5C12H: GKICK, L=0.15, DXP=0, DYP=0
      MBD5C12V: GKICK, L=0.15, DXP=0, DYP=0
      IPM5C13: MONITOR, L=0
175   MQP5C13: QUADRUPOLE, L=0.3, K1=-0.311845, TILT=0
      MQP5C13A: QUADRUPOLE, L=0.3, K1=-0.311845, TILT=0
      MBD5C13H: GKICK, L=0.15, DXP=0, DYP=0
      MBD5C13V: GKICK, L=0.15, DXP=0, DYP=0
      IPM5C14: MONITOR, L=0
180   MQP5C14: QUADRUPOLE, L=0.3, K1=0.266553, TILT=0
      MQP5C14A: QUADRUPOLE, L=0.3, K1=0.266553, TILT=0
      MBD5C14H: GKICK, L=0, DXP=0, DYP=0
      MBD5C14V: GKICK, L=0, DXP=0, DYP=0
      D4040: DRIFT, L=0.05
185   D4041: DRIFT, L=13
      IPM5C30: MONITOR, L=0
      D4042: DRIFT, L=3.43633
      IPM5C31: MONITOR, L=0
      RADIATOR: GKICK, L=0, DXP=0, DYP=0
190   D4028: DRIFT, L=75
      COLLIM: GKICK, L=0, DXP=0, DYP=0
      D4029: DRIFT, L=42
      BACKWALL: GKICK, L=0, DXP=0, DYP=0
      D4030: DRIFT, L=5
195
      HALLD_CDR: LINE=(D11000, &
      MAQ1S01, D11001, MAS3S02, D11002, MYR7S03, &
      D11003, MYR9S04, D11004, MYRBS05, D11005, &
      DQUAD, D11006, IPMBS02, MQCBS02, MBDBS02H, &
200   MBDBS02V, D11007, MBBS06, D11008, IPMBS03, &
      MQCBS03, MBDBS03H, MBDBS03V, D11009, IPMBS04, &
      MQCBS04, MBDBS04H, MBDBS04V, D11012, IPMBE01, &
      MQABE01, MBDBE01H, MBDBE01V, D11013, IPMBE02, &
      MQABE02, MBDBE02H, MBDBE02V, D11013, IPMBE03, &
205   MQABE03, MBDBE03H, MBDBE03V, D11013, IPMBE04, &
      MQABE04, MBDBE04H, MBDBE04V, D11021, IPMBT01, &
      MQABT01, MBDBT01H, MBDBT01V, D11022, IPMBT02, &
      MQABT02, MBDBT02H, MBDBT02V, D11017, IPMBT03, &
      MQABT03, MBDBT03H, MBDBT03V, D11018, IPMBT04, &
210   MQABT04, MBDBT04H, MBDBT04V, D11019, MAR5C01, &
      D11015, MAR5C02, D4002, IPM5C01, MQA5C01, &
      MBD5C01H, MBD5C01V, D4005, IPM5C02, MQA5C02, &
      D4004, MQA5C02A, MBD5C02H, MBD5C02V, D4006, &
      IPM5C04, MQA5C03, MBD5C03H, MBD5C03V, D4003, &
215   IPM5C04, MQA5C04, MBD5C04H, MBD5C04V, D4007, &
      IPM5C05, MQA5C05, MBD5C05H, MBD5C05V, D4011, &
      IPM5C06, MQA5C06, D4004, MQA5C06A, MBD5C06H, &
      MBD5C06V, D4012, IPM5C07, MQA5C07, MBD5C07H, &
      MBD5C07V, D4009, IPM5C08, MQA5C08, MBD5C08H, &
220   MBD5C08V, D4011, IPM5C09, MQA5C09, D4004, &
      MQA5C09A, MBD5C09H, MBD5C09V, D4012, IPM5C10, &
      MQA5C10, MBD5C10H, MBD5C10V, D4031, MAR5C03, &
      D11015, MAR5C04, D4023, IPM5C11, MQP5C11, &
      D4039, MQP5C11A, MBD5C11H, MBD5C11V, D4038, &
225   IPM5C12, MQP5C12, D4039, MQP5C12A, MBD5C12H, &
      MBD5C12V, D4038, IPM5C13, MQP5C13, D4039, &
      MQP5C13A, MBD5C13H, MBD5C13V, D4038, IPM5C14, &
      MQP5C14, D4039, MQP5C14A, MBD5C14H, MBD5C14V, &
      D4040, MBD5C12H, D4040, MBD5C12V, D4041, &
230   IPM5C30, MBD5C13H, D4040, MBD5C13V, D4042, &
      IPM5C31, RADIATOR, D4028, COLLIM, D4029, &
      BACKWALL, D4030)
      USE, HALLD_CDR
      DIMAT
  
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*****
* DIMAD PROGRAM : LAST MODIFIED ON May 27, 2005 *
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CONVERTED FROM ../../OPTIM_DECK/TAGS/LEHMAN2007/BASELINE//HALLD_CDR.OPT

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TOTAL LENGTH OF MACHINE IS: 320.694 METERS

IN THIS RUN THERE ARE :

159 DISTINCT ELEMENTS. ALLOCATED MXELMD : 160
178 ELEMENTS IN MACHINE. ALLOCATED MXPOS_D : 180
42 MATRICES DEFINED. ALLOCATED MAXMAT : 43
1036 VALUES IN ELDAT. ALLOCATED MAXDAT : 1036
0 LCAVs. ALLOCATED MX_LCAV : 1

1

OPERATION LIST ,

MACHINE

1 2 1 0 1 1 1
182.756 1.4745 0 0
181.798 -1.0402 0 0
0,

ELEMENT	#	BETAX	ALPHAX	BETAY	ALPHAY	ETAX	ETAPX	ETAY	ETAPY	NUX	NUY	ACC.LEN
\$\$INITIAL\$\$	0	182.7560	1.4745	181.7980	-1.0402	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.000
D11000	1	182.7560	1.4745	181.7980	-1.0402	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.000
MAQ1S01	2	179.8309	1.6333	183.7037	-1.0517	0.0000	0.0000	0.0160	0.0319	0.00088	0.00087	1.000
D11001	3	176.5831	1.6129	185.8196	-1.0631	0.0000	0.0000	0.0479	0.0319	0.00177	0.00173	2.001
MAS3S02	4	173.7110	1.7366	187.4456	-1.0746	0.0000	0.0000	0.0650	0.0025	0.00268	0.00259	3.002
D11002	5	170.6603	1.7162	189.3535	-1.0848	0.0000	0.0000	0.0672	0.0025	0.00350	0.00333	3.885
MYR7S03	6	159.3236	1.8459	196.6935	-1.1192	0.0000	0.0000	0.1668	0.0638	0.00640	0.00581	6.887
D11003	7	157.1185	1.8293	198.0406	-1.1261	0.0000	0.0000	0.2051	0.0638	0.00700	0.00629	7.487
MYR9S04	8	149.9125	1.8178	202.4720	-1.1490	0.0000	0.0000	0.3083	0.0395	0.00907	0.00788	9.487
D11004	9	147.7408	1.8006	203.8553	-1.1559	0.0000	0.0000	0.3320	0.0395	0.00972	0.00835	10.088
MYRBS05	10	140.5423	1.7972	208.5241	-1.1788	0.0000	0.0000	0.3830	0.0116	0.01192	0.00989	12.088
D11005	11	124.4582	1.6570	219.7503	-1.2321	0.0000	0.0000	0.4369	0.0116	0.01753	0.01336	16.744
DQUAD	12	123.4667	1.6480	220.4906	-1.2356	0.0000	0.0000	0.4404	0.0116	0.01791	0.01357	17.044
D11006	13	112.9088	1.5486	228.7774	-1.2734	0.0000	0.0000	0.4786	0.0116	0.02237	0.01591	20.347
IPMBS02	14	112.9088	1.5486	228.7774	-1.2734	0.0000	0.0000	0.4786	0.0116	0.02237	0.01591	20.347
MQCBS02	15	112.1989	0.8194	229.1010	0.1955	0.0000	0.0000	0.4816	0.0085	0.02279	0.01612	20.647
MBDBS02H	16	112.1989	0.8194	229.1010	0.1955	0.0000	0.0000	0.4816	0.0085	0.02279	0.01612	20.647
MBDBS02V	17	112.1989	0.8194	229.1010	0.1955	0.0000	0.0000	0.4816	0.0085	0.02279	0.01612	20.647
D11007	18	108.3304	0.7835	228.1835	0.1846	0.0000	0.0000	0.5021	0.0085	0.02628	0.01780	23.060
MBBS06	19	104.9682	0.8952	227.4635	0.1755	0.0000	0.0000	0.5713	0.0607	0.02926	0.01920	25.061
D11008	20	95.7087	0.8016	225.6825	0.1508	0.0000	0.0000	0.9028	0.0607	0.03793	0.02303	30.518
IPMBS03	21	95.7087	0.8016	225.6825	0.1508	0.0000	0.0000	0.9028	0.0607	0.03793	0.02303	30.518
MQCBS03	22	96.6514	-3.9594	222.2619	11.1949	0.0000	0.0000	0.9143	0.0158	0.03843	0.02325	30.818
MBDBS03H	23	96.6514	-3.9594	222.2619	11.1949	0.0000	0.0000	0.9143	0.0158	0.03843	0.02325	30.818
MBDBS03V	24	96.6514	-3.9594	222.2619	11.1949	0.0000	0.0000	0.9143	0.0158	0.03843	0.02325	30.818
D11009	25	137.5963	-4.7689	129.7381	8.5287	0.0000	0.0000	0.9883	0.0158	0.04490	0.02764	35.509
IPMBS04	26	137.5963	-4.7689	129.7381	8.5287	0.0000	0.0000	0.9883	0.0158	0.04490	0.02764	35.509
MQCBS04	27	138.3522	2.2621	126.6126	1.9427	0.0000	0.0000	1.0006	0.0664	0.04525	0.02802	35.809
MBDBS04H	28	138.3522	2.2621	126.6126	1.9427	0.0000	0.0000	1.0006	0.0664	0.04525	0.02802	35.809
MBDBS04V	29	138.3522	2.2621	126.6126	1.9427	0.0000	0.0000	1.0006	0.0664	0.04525	0.02802	35.809
D11012	30	25.4260	0.3524	29.1368	0.3141	0.0000	0.0000	3.8665	0.0664	0.17508	0.15392	79.001
IPMBE01	31	25.4260	0.3524	29.1368	0.3141	0.0000	0.0000	3.8665	0.0664	0.17508	0.15392	79.001
MQABE01	32	24.6572	2.1912	29.6055	-1.8881	0.0000	0.0000	3.9298	0.3564	0.17698	0.15555	79.301
MBDBE01H	33	24.6572	2.1912	29.6055	-1.8881	0.0000	0.0000	3.9298	0.3564	0.17698	0.15555	79.301
MBDBE01V	34	24.6572	2.1912	29.6055	-1.8881	0.0000	0.0000	3.9298	0.3564	0.17698	0.15555	79.301
D11013	35	16.8335	1.7206	37.7745	-2.1964	0.0000	0.0000	4.6426	0.3564	0.19263	0.16508	81.301
IPMBE02	36	16.8335	1.7206	37.7745	-2.1964	0.0000	0.0000	4.6426	0.3564	0.19263	0.16508	81.301
MQABE02	37	16.4678	-0.4856	37.6016	2.7653	0.0000	0.0000	4.6576	-0.2568	0.19551	0.16634	81.601
MBDBE02H	38	16.4678	-0.4856	37.6016	2.7653	0.0000	0.0000	4.6576	-0.2568	0.19551	0.16634	81.601
MBDBE02V	39	16.4678	-0.4856	37.6016	2.7653	0.0000	0.0000	4.6576	-0.2568	0.19551	0.16634	81.601
D11013	40	18.7106	-0.6357	27.4604	2.3053	0.0000	0.0000	4.1440	-0.2568	0.21369	0.17625	83.601
IPMBE03	41	18.7106	-0.6357	27.4604	2.3053	0.0000	0.0000	4.1440	-0.2568	0.21369	0.17625	83.601
MQABE03	42	18.3884	1.6962	27.1177	-1.1487	0.0000	0.0000	4.1453	0.2656	0.21625	0.17801	83.901
MBDBE03H	43	18.3884	1.6962	27.1177	-1.1487	0.0000	0.0000	4.1453	0.2656	0.21625	0.17801	83.901
MBDBE03V	44	18.3884	1.6962	27.1177	-1.1487	0.0000	0.0000	4.1453	0.2656	0.21625	0.17801	83.901
D11013	45	12.4468	1.2745	32.0548	-1.3198	0.0000	0.0000	4.6764	0.2656	0.23735	0.18881	85.901
IPMBE04	46	12.4468	1.2745	32.0548	-1.3198	0.0000	0.0000	4.6764	0.2656	0.23735	0.18881	85.901
MQABE04	47	11.7650	1.0021	32.6805	-0.7621	0.0000	0.0000	4.7435	0.1816	0.24130	0.19029	86.201
MBDBE04H	48	11.7650	1.0021	32.6805	-0.7621	0.0000	0.0000	4.7435	0.1816	0.24130	0.19029	86.201
MBDBE04V	49	11.7650	1.0021	32.6805	-0.7621	0.0000	0.0000	4.7435	0.1816	0.24130	0.19029	86.201
D11021	50	19.3261	-1.5140	65.7456	-1.4766	0.0000	0.0000	7.4256	0.1816	0.52357	0.24190	100.971
IPMBT01	51	19.3261	-1.5140	65.7456	-1.4766	0.0000	0.0000	7.4256	0.1816	0.52357	0.24190	100.971
MQABT01	52	20.4504	-2.2460	65.9732	0.7206	0.0000	0.0000	7.4428	-0.0670	0.52597	0.24263	101.271
MBDBT01H	53	20.4504	-2.2460	65.9732	0.7206	0.0000	0.0000	7.4428	-0.0670	0.52597	0.24263	101.271
MBDBT01V	54	20.4504	-2.2460	65.9732	0.7206	0.0000	0.0000	7.4428	-0.0670	0.52597	0.24263	101.271
D11022	55	30.6166	-2.8371	63.1830	0.6745	0.0000	0.0000	7.3088	-0.0670	0.53871	0.24756	103.271
IPMBT02	56	30.6166	-2.8371	63.1830	0.6745	0.0000	0.0000	7.3088	-0.0670	0.53871	0.24756	103.271
MQABT02	57	31.2360	0.7970	65.0303	-6.9044	0.0000	0.0000	7.4181	0.7979	0.54024	0.24831	103.571
MBDBT02H	58	31.2360	0.7970	65.0303	-6.9044	0.0000	0.0000	7.4181	0.7979	0.54024	0.24831	103.571
MBDBT02V	59	31.2360	0.7970	65.0303	-6.9044	0.0000	0.0000	7.4181	0.7979	0.54024	0.24831	103.571
D11017	60	28.2574	0.6923	95.6419	-8.4013	0.0000	0.0000	9.0140	0.7979	0.55096	0.25234	105.571
IPMBT03	61	28.2574	0.6923	95.6419	-8.4013	0.0000	0.0000	9.0140	0.7979	0.55096	0.25234	105.571
MQABT03	62	29.7862	-5.9025	94.1885	13.1359	0.0000	0.0000	8.9470	-1.2419	0.55263	0.25284	105.871
MBDBT03H	63	29.7862	-5.9025	94.1885	13.1359	0.0000	0.0000	8.9470	-1.2419	0.55263	0.25284	105.871
MBDBT03V	64	29.7862	-5.9025	94.1885	13.1359	0.0000	0.0000	8.9470	-1.2419	0.55263	0.25284	105.871
D11018	65	58.2093	-8.3090	49.0154	9.4507	0.0000	0.0000	6.4632	-1.2419	0.56028	0.25753	107.871
IPMBT04	66	58.2093	-8.3090	49.0154	9.4507	0.0000	0.0000	6.4632	-1.2419	0.56028	0.25753	107.871
MQABT04	67	60.3546	1.2743	45.7516	1.6047	0.0000	0.0000	6.2455	-0.2155	0.56107	0.25854	108.171
MBDBT04H	68	60.3546	1.2743	45.7516	1.6047	0.0000	0.0000	6.2455	-0.2155	0.56107	0.25854	108.171
MBDBT04V	69	60.3546	1.2743	45.7516	1.6047	0.0000	0.0000	6.2455	-0.2155	0.56107	0.25854	108.171
D11019	70	23.8336	0.1902	14.3106	-0.3438	0.0000	0.0000	0.8714	-0.2155	0.67526	0.47255	133.107
MAR5C01	71	22.8115	0.0									

IPM5C01	75	23.4177	-0.1692	30.0108	-1.1679	0.0000	0.0000	-0.2925	-0.0406	0.74727	0.55621	143.507
MQA5C01	76	22.3646	3.6207	32.2731	-6.4990	0.0000	0.0000	-0.3121	-0.0910	0.74934	0.55775	143.807
MBD5C01H	77	22.3646	3.6207	32.2731	-6.4990	0.0000	0.0000	-0.3121	-0.0910	0.74934	0.55775	143.807
MBD5C01V	78	22.3646	3.6207	32.2731	-6.4990	0.0000	0.0000	-0.3121	-0.0910	0.74934	0.55775	143.807
D4005	79	17.2883	3.1476	42.7752	-7.5038	0.0000	0.0000	-0.3803	-0.0910	0.75541	0.56097	144.557
IPM5C02	80	17.2883	3.1476	42.7752	-7.5038	0.0000	0.0000	-0.3803	-0.0910	0.75541	0.56097	144.557
MQA5C02	81	16.6867	-1.0926	44.0569	3.3384	0.0000	0.0000	-0.3932	0.0060	0.75826	0.56205	144.857
D4004	82	17.1290	-1.1189	42.7325	3.2833	0.0000	0.0000	-0.3920	0.0060	0.76014	0.56279	145.057
MQA5C02A	83	19.1405	-5.7500	37.8077	12.7274	0.0000	0.0000	-0.3758	0.1009	0.76281	0.56396	145.357
MBD5C02H	84	19.1405	-5.7500	37.8077	12.7274	0.0000	0.0000	-0.3758	0.1009	0.76281	0.56396	145.357
MBD5C02V	85	19.1405	-5.7500	37.8077	12.7274	0.0000	0.0000	-0.3758	0.1009	0.76281	0.56396	145.357
D4006	86	28.7664	-7.0846	21.1415	9.4942	0.0000	0.0000	-0.3001	0.1009	0.76790	0.56818	146.107
IPM5C04	87	28.7664	-7.0846	21.1415	9.4942	0.0000	0.0000	-0.3001	0.1009	0.76790	0.56818	146.107
MQA5C03	88	31.8070	-2.9019	16.6124	5.8231	0.0000	0.0000	-0.2763	0.0589	0.76946	0.57075	146.407
MBD5C03H	89	31.8070	-2.9019	16.6124	5.8231	0.0000	0.0000	-0.2763	0.0589	0.76946	0.57075	146.407
MBD5C03V	90	31.8070	-2.9019	16.6124	5.8231	0.0000	0.0000	-0.2763	0.0589	0.76946	0.57075	146.407
D4003	91	50.3796	-3.7312	0.4776	-0.0607	0.0000	0.0000	-0.1113	0.0589	0.78061	0.80333	149.207
IPM5C04	92	50.3796	-3.7312	0.4776	-0.0607	0.0000	0.0000	-0.1113	0.0589	0.78061	0.80333	149.207
MQA5C04	93	52.6450	-3.8201	0.7032	-0.6911	0.0000	0.0000	-0.0937	0.0589	0.78153	0.88992	149.507
MBD5C04H	94	52.6450	-3.8201	0.7032	-0.6911	0.0000	0.0000	-0.0937	0.0589	0.78153	0.88992	149.507
MBD5C04V	95	52.6450	-3.8201	0.7032	-0.6911	0.0000	0.0000	-0.0937	0.0589	0.78153	0.88992	149.507
D4007	96	69.5519	-4.4272	12.3676	-4.9989	0.0000	0.0000	0.0271	0.0589	0.78693	1.01226	151.557
IPM5C05	97	69.5519	-4.4272	12.3676	-4.9989	0.0000	0.0000	0.0271	0.0589	0.78693	1.01226	151.557
MQA5C05	98	66.0640	15.7061	16.8781	-10.4801	0.0000	0.0000	0.0462	0.0697	0.78762	1.01561	151.857
MBD5C05H	99	66.0640	15.7061	16.8781	-10.4801	0.0000	0.0000	0.0462	0.0697	0.78762	1.01561	151.857
MBD5C05V	100	66.0640	15.7061	16.8781	-10.4801	0.0000	0.0000	0.0462	0.0697	0.78762	1.01561	151.857
D4011	101	44.6137	12.8943	36.2921	-15.4052	0.0000	0.0000	0.0985	0.0697	0.78982	1.02044	152.607
IPM5C06	102	44.6137	12.8943	36.2921	-15.4052	0.0000	0.0000	0.0985	0.0697	0.78982	1.02044	152.607
MQA5C06	103	40.8514	0.0171	42.4308	-4.4460	0.0000	0.0000	0.1147	0.0378	0.79095	1.02163	152.907
D4004	104	40.8455	0.0122	44.2288	-4.5439	0.0000	0.0000	0.1223	0.0378	0.79173	1.02237	153.107
MQA5C06A	105	44.5887	-12.8578	43.0137	8.4731	0.0000	0.0000	0.1280	0.0003	0.79287	1.02345	153.407
MBD5C06H	106	44.5887	-12.8578	43.0137	8.4731	0.0000	0.0000	0.1280	0.0003	0.79287	1.02345	153.407
MBD5C06V	107	44.5887	-12.8578	43.0137	8.4731	0.0000	0.0000	0.1280	0.0003	0.79287	1.02345	153.407
D4012	108	65.9736	-15.6554	31.2560	7.2038	0.0000	0.0000	0.1283	0.0003	0.79507	1.02670	154.157
IPM5C07	109	65.9736	-15.6554	31.2560	7.2038	0.0000	0.0000	0.1283	0.0003	0.79507	1.02670	154.157
MQA5C07	110	69.9762	2.6768	29.4614	-1.0604	0.0000	0.0000	0.1337	0.0356	0.79576	1.02830	154.457
MBD5C07H	111	69.9762	2.6768	29.4614	-1.0604	0.0000	0.0000	0.1337	0.0356	0.79576	1.02830	154.457
MBD5C07V	112	69.9762	2.6768	29.4614	-1.0604	0.0000	0.0000	0.1337	0.0356	0.79576	1.02830	154.457
D4009	113	51.5414	2.2392	38.4285	-1.3308	0.0000	0.0000	0.2671	0.0356	0.80571	1.04607	158.207
IPM5C08	114	51.5414	2.2392	38.4285	-1.3308	0.0000	0.0000	0.2671	0.0356	0.80571	1.04607	158.207
MQA5C08	115	47.9825	9.4470	40.9976	-7.3596	0.0000	0.0000	0.2838	0.0764	0.80666	1.04728	158.507
MBD5C08H	116	47.9825	9.4470	40.9976	-7.3596	0.0000	0.0000	0.2838	0.0764	0.80666	1.04728	158.507
MBD5C08V	117	47.9825	9.4470	40.9976	-7.3596	0.0000	0.0000	0.2838	0.0764	0.80666	1.04728	158.507
D4011	118	34.8700	8.0364	52.7939	-8.3688	0.0000	0.0000	0.3411	0.0764	0.80958	1.04985	159.257
IPM5C09	119	34.8700	8.0364	52.7939	-8.3688	0.0000	0.0000	0.3411	0.0764	0.80958	1.04985	159.257
MQA5C09	120	32.3637	0.5015	54.2992	3.4623	0.0000	0.0000	0.3526	-0.0005	0.81102	1.05073	159.557
D4004	121	32.1646	0.4937	52.9238	3.4145	0.0000	0.0000	0.3525	-0.0005	0.81200	1.05133	159.757
MQA5C09A	122	34.2181	-7.5013	47.2898	14.9147	0.0000	0.0000	0.3398	-0.0837	0.81346	1.05227	160.057
MBD5C09H	123	34.2181	-7.5013	47.2898	14.9147	0.0000	0.0000	0.3398	-0.0837	0.81346	1.05227	160.057
MBD5C09V	124	34.2181	-7.5013	47.2898	14.9147	0.0000	0.0000	0.3398	-0.0837	0.81346	1.05227	160.057
D4012	125	46.4115	-8.7566	27.5757	11.3709	0.0000	0.0000	0.2770	-0.0837	0.81645	1.05557	160.807
IPM5C10	126	46.4115	-8.7566	27.5757	11.3709	0.0000	0.0000	0.2770	-0.0837	0.81645	1.05557	160.807
MQA5C10	127	49.5916	-1.6838	22.2422	6.6744	0.0000	0.0000	0.2580	-0.0436	0.81744	1.05752	161.107
MBD5C10H	128	49.5916	-1.6838	22.2422	6.6744	0.0000	0.0000	0.2580	-0.0436	0.81744	1.05752	161.107
MBD5C10V	129	49.5916	-1.6838	22.2422	6.6744	0.0000	0.0000	0.2580	-0.0436	0.81744	1.05752	161.107
D4031	130	56.2691	-1.8307	4.2720	2.7836	0.0000	0.0000	0.1752	-0.0436	0.82317	1.08874	163.007
MAR5C03	131	71.6124	-1.9887	14.7082	-5.3971	0.0000	0.0000	-0.1732	-0.1309	0.83320	1.50467	167.007
IL1015	132	73.6184	-2.0233	20.6174	-6.4213	0.0000	0.0000	-0.2387	-0.1309	0.83430	1.50924	167.507
MAR5C04	133	90.2182	-2.1089	104.6595	-14.6251	0.0000	0.0000	-0.9365	-0.2185	0.84211	1.52295	171.508
D4023	134	94.2797	-2.1663	134.3003	-16.5757	0.0000	0.0000	-1.1440	-0.2185	0.84375	1.52422	172.458
IPM5C11	135	94.2797	-2.1663	134.3003	-16.5757	0.0000	0.0000	-1.1440	-0.2185	0.84375	1.52422	172.458
MQP5C11	136	95.5848	-2.1844	144.4305	-17.1917	0.0000	0.0000	-1.2095	-0.2185	0.84426	1.52456	172.758
D4039	137	96.4610	-2.1965	151.3894	-17.6024	0.0000	0.0000	-1.2532	-0.2185	0.84459	1.52478	172.958
MQP5C11A	138	99.3921	-7.6274	159.5459	-9.4371	0.0000	0.0000	-1.3083	-0.1482	0.84508	1.52509	173.258
MBD5C11H	139	99.3921	-7.6274	159.5459	-9.4371	0.0000	0.0000	-1.3083	-0.1482	0.84508	1.52509	173.258
MBD5C11V	140	99.3921	-7.6274	159.5459	-9.4371	0.0000	0.0000	-1.3083	-0.1482	0.84508	1.52509	173.258
D4038	141	127.9115	-8.6694	194.3046	-10.4250	0.0000	0.0000	-1.5677	-0.1482	0.84755	1.52667	175.008
IPM5C12	142	127.9115	-8.6694	194.3046	-10.4250	0.0000	0.0000	-1.5677	-0.1482	0.84755	1.52667	175.008
MQP5C12	143	133.1667	-8.8480	200.6103	-10.5943	0.0000	0.0000	-1.6122	-0.1482	0.84791	1.52691	175.308
D4039	144	136.7297	-8.9671	204.8706	-10.7072	0.0000	0.0000	-1.6419	-0.1482	0.84815	1.52707	175.508
MQP5C12A	145	141.2029	-5.9096	212.7840	-15.7311	0.0000	0.0000	-1.6920	-0.1863	0.84849	1.52730	175.808
MBD5C12H	146	142.9815	-5.9477	217.5297	-15.9063	0.0000	0.0000	-1.7200	-0.1863	0.84866	1.52741	175.958
MBD5C12V	147	144.7716	-5.9859	222.3278	-16.0814	0.0000	0.0000	-1.7479	-0.1863	0.84883	1.52752	176.108
D4038	148	166.5013	-6.4311	282.1890	-18.1249	0.0000	0.0000	-2.0740	-0.1863	0.85062	1.52863	177.858
IPM5C13	149	166.5013	-6.4311	282.1890	-18.1249	0.0000	0.0000	-2.0740	-0.1863	0.85062	1.52863	177.858
MQP5C13	150	175.1726	-22.7431	285.1196	8.4478	0.0000	0.0000	-2.1006	0.0094	0.85090	1.52880	178.158
D4039	151	184.3882	-23.3348	281.7506	8.3970	0.0000	0.0000	-2.0987	0.0094	0.85108	1.52891	178.358
MQP5C13A	152	204.1449	-43.1359	268.9949	33.7237	0.0000	0.0000	-2.0665	0.2047	0.85133	1.52908	178.658
MBD5C13H	153	217.2909	-44.5039	258.9730	33.0889	0.0000	0.0000	-2.0358	0.2047	0.85144	1.52917	178.808
MBD5C13V	154	230.8472	-45.8718	249.1415	32.4542	0.0000	0.0000	-2.0051	0.2047	0.85155	1.52926	178.958
D4038	155	419.3271	-61.8310	148.5113	25.0488	0.0000	0.0000	-1.6469	0.2047	0.85244	1.53071	180.708
IPM5C14	156	419.3271	-61.8310	148.5113	25.0488	0.0000	0.0000					

MAXIMUM LATTICE FUNCTIONS :
 BETA X = 0.9267314804E+03 BETA Y = 0.3883351858E+03
 ETA X = 0.2710579153E-13 ETA Y = 0.9013973271E+01

1
 OPERATION LIST ,

MATRIX

1 -1,

AFTER :D4030 ELEMENT #: 178

 * TRANSFORMATION MATRIX *

FIRST ORDER MATRIX

- 0.2073622E+01 0.3737889E+03 -0.1617244E-13 -0.1402354E-12 0.0000000E+00 -0.1646631E-14
 - 0.2149988E-01 0.4357793E+01 -0.1951381E-15 -0.1732367E-14 0.0000000E+00 -0.2010777E-15
 - 0.8088479E-14 0.3729085E-12 0.1995909E+01 -0.1218254E+03 0.0000000E+00 -0.8800907E+01
 - 0.4849107E-16 0.2316142E-14 0.1900491E-01 -0.6589888E+00 0.0000000E+00 -0.5183195E-01
 - -0.3740330E-15 -0.6692937E-13 0.6380863E-01 0.5147498E+00 0.1000000E+01 0.9897665E-01
 - 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.0000000E+00 0.1000000E+01

HORIZONTAL MOVEMENT ANALYSIS

COMPACTION FACTOR = 0.3086328E-03 GAMMA TR = 0.5692184E+02

MOVEMENT IS UNSTABLE

HALF-TRACE = 0.32157074363413E+01
 EIGENVALUE1 = 0.62719754736935E+01
 WITH EIGENVECTOR :
 X = -0.99993692834900E+00 XP = -0.11231176428650E-01
 EIGENVALUE2 = 0.15943939898909E+00
 WITH EIGENVECTOR :
 X = -0.99998688780414E+00 XP = 0.51209588735665E-02

VERTICAL MOVEMENT ANALYSIS

COS(MU) = 0.66846014115756E+00 NU = 0.86652313534524E+00
 ETA = -0.12496472252343E+02 ETAP = -0.17439920641736E+00
 ALPHA = -0.17848101384665E+01 BETA = 0.16379933484470E+03

1
 OPERATION LIST ,

HARDWARE

12.1125 5488.84 80.6 100 90.5537 0 0.0 0 1 0 ;

VALUES ARE FOR ENERGY : 0.121E+02 GEV

THE LENGTHS ARE MEASURED IN METERS ,THE ANGLES IN DEGREES

THE XYZ COORDINATES ,AZIMUTH,ELEVATION AND ROLL ANGLES ARE :

#	NAME	S	X	Y	Z	THETA	PHI	PSI
1	D11000	5488.8400000000	80.6000000000	100.0000000000	90.5537000000	0.0000000000	0.0000000000	0.0000000000
2	MAQ1S01	5489.8401700000	80.6000000000	100.0159565475	91.5537002678	0.0000000000	1.8283300000	0.0000000000
3	D11001	5490.8406800000	80.6000000000	100.0478777820	92.5537009152	0.0000000000	1.8283300000	0.0000000000
4	MAS3S02	5491.8418100000	80.6000000000	100.0650633841	93.5546471281	0.0000000000	0.1389400000	0.0000000000
5	D11002	5492.7253500000	80.6000000000	100.0672059315	94.4381845303	0.0000000000	0.1389400000	0.0000000000
6	MYR7S03	5495.7272400000	80.6000000000	100.1666030542	97.4379567733	0.0000000000	3.6566500000	0.0000000000
7	D11003	5496.3272500000	80.6000000000	100.2048700520	98.0367452476	0.0000000000	3.6566500000	0.0000000000
8	MYR9S04	5498.3274500000	80.6000000000	100.3081215481	100.0342290316	0.0000000000	2.2614100000	0.0000000000
9	D11004	5498.9276200000	80.6000000000	100.3318035382	100.6339316180	0.0000000000	2.2614100000	0.0000000000
10	MYRBS05	5500.9276800000	80.6000000000	100.3828360144	102.6332755634	0.0000000000	0.6628600000	0.0000000000
11	D11005	5505.5840800000	80.6000000000	100.4367051209	107.2893639517	0.0000000000	0.6628600000	0.0000000000
12	DQUAD	5505.8840800000	80.6000000000	100.4401757704	107.5893438753	0.0000000000	0.6628600000	0.0000000000
13	D11006	5509.1869300000	80.6000000000	100.4783858852	110.8919728447	0.0000000000	0.6628600000	0.0000000000
14	IPMS02	5509.1869300000	80.6000000000	100.4783858852	110.8919728447	0.0000000000	0.6628600000	0.0000000000
15	MQCBS02	5509.4869300000	80.6000000000	100.4818565346	111.1919527684	0.0000000000	0.6628600000	0.0000000000
16	MBDBS02H	5509.4869300000	80.6000000000	100.4818565346	111.1919527684	0.0000000000	0.6628600000	0.0000000000
17	MBDBS02V	5509.4869300000	80.6000000000	100.4818565346	111.1919527684	0.0000000000	0.6628600000	0.0000000000
18	D11007	5511.9003700000	80.6000000000	100.5097772151	113.6052312582	0.0000000000	0.6628600000	0.0000000000
19	MBBS06	5513.9006000000	80.6000000000	100.5851491272	115.6038129874	0.0000000000	3.6566500000	0.0000000000
20	D11008	5519.3577800000	80.6000000000	100.9331931513	121.0498830301	0.0000000000	3.6566500000	0.0000000000
21	IPMS03	5519.3577800000	80.6000000000	100.9331931513	121.0498830301	0.0000000000	3.6566500000	0.0000000000
22	MQCBS03	5519.6577800000	80.6000000000	100.9523263313	121.3492722774	0.0000000000	3.6566500000	0.0000000000
23	MBDBS03H	5519.6577800000	80.6000000000	100.9523263313	121.3492722774	0.0000000000	3.6566500000	0.0000000000
24	MBDBS03V	5519.6577800000	80.6000000000	100.9523263313	121.3492722774	0.0000000000	3.6566500000	0.0000000000
25	D11009	5524.3488100000	80.6000000000	101.2515074026	126.0307520806	0.0000000000	3.6566500000	0.0000000000
26	IPMS04	5524.3488100000	80.6000000000	101.2515074026	126.0307520806	0.0000000000	3.6566500000	0.0000000000
27	MQCBS04	5524.6488100000	80.6000000000	101.2706405826	126.3301413279	0.0000000000	3.6566500000	0.0000000000
28	MBDBS04H	5524.6488100000	80.6000000000	101.2706405826	126.3301413279	0.0000000000	3.6566500000	0.0000000000
29	MBDBS04V	5524.6488100000	80.6000000000	101.2706405826	126.3301413279	0.0000000000	3.6566500000	0.0000000000

30	D11012	5567.8408100000	80.6000000000	104.0253082845	169.4342092317	0.0000000000	3.6566500000	0.0000000000
31	IPMBE01	5567.8408100000	80.6000000000	104.0253082845	169.4342092317	0.0000000000	3.6566500000	0.0000000000
32	MQABE01	5568.1408100000	80.6000000000	104.0444414645	169.7335984790	0.0000000000	3.6566500000	0.0000000000
33	MBDBE01H	5568.1408100000	80.6000000000	104.0444414645	169.7335984790	0.0000000000	3.6566500000	0.0000000000
34	MBDBE01V	5568.1408100000	80.6000000000	104.0444414645	169.7335984790	0.0000000000	3.6566500000	0.0000000000
35	D11013	5570.1408100000	80.6000000000	104.1719959978	171.7295267946	0.0000000000	3.6566500000	0.0000000000
36	IPMBE02	5570.1408100000	80.6000000000	104.1719959978	171.7295267946	0.0000000000	3.6566500000	0.0000000000
37	MQABE02	5570.4408100000	80.6000000000	104.1911291778	172.0289160420	0.0000000000	3.6566500000	0.0000000000
38	MBDBE02H	5570.4408100000	80.6000000000	104.1911291778	172.0289160420	0.0000000000	3.6566500000	0.0000000000
39	MBDBE02V	5570.4408100000	80.6000000000	104.1911291778	172.0289160420	0.0000000000	3.6566500000	0.0000000000
40	D11013	5572.4408100000	80.6000000000	104.3186837111	174.0248443576	0.0000000000	3.6566500000	0.0000000000
41	IPMBE03	5572.4408100000	80.6000000000	104.3186837111	174.0248443576	0.0000000000	3.6566500000	0.0000000000
42	MQABE03	5572.7408100000	80.6000000000	104.3378168911	174.3242336049	0.0000000000	3.6566500000	0.0000000000
43	MBDBE03H	5572.7408100000	80.6000000000	104.3378168911	174.3242336049	0.0000000000	3.6566500000	0.0000000000
44	MBDBE03V	5572.7408100000	80.6000000000	104.3378168911	174.3242336049	0.0000000000	3.6566500000	0.0000000000
45	D11013	5574.7408100000	80.6000000000	104.4653714245	176.3201619205	0.0000000000	3.6566500000	0.0000000000
46	IPMBE04	5574.7408100000	80.6000000000	104.4653714245	176.3201619205	0.0000000000	3.6566500000	0.0000000000
47	MQABE04	5575.0408100000	80.6000000000	104.4845046045	176.6195511679	0.0000000000	3.6566500000	0.0000000000
48	MBDBE04H	5575.0408100000	80.6000000000	104.4845046045	176.6195511679	0.0000000000	3.6566500000	0.0000000000
49	MBDBE04V	5575.0408100000	80.6000000000	104.4845046045	176.6195511679	0.0000000000	3.6566500000	0.0000000000
50	D11021	5589.8108100000	80.6000000000	105.4264948331	191.3594817786	0.0000000000	3.6566500000	0.0000000000
51	IPMBT01	5589.8108100000	80.6000000000	105.4264948331	191.3594817786	0.0000000000	3.6566500000	0.0000000000
52	MQABT01	5590.1108100000	80.6000000000	105.4456280131	191.6588710259	0.0000000000	3.6566500000	0.0000000000
53	MBDBT01H	5590.1108100000	80.6000000000	105.4456280131	191.6588710259	0.0000000000	3.6566500000	0.0000000000
54	MBDBT01V	5590.1108100000	80.6000000000	105.4456280131	191.6588710259	0.0000000000	3.6566500000	0.0000000000
55	D11022	5592.1108100000	80.6000000000	105.5731825465	193.6547993415	0.0000000000	3.6566500000	0.0000000000
56	IPMBT02	5592.1108100000	80.6000000000	105.5731825465	193.6547993415	0.0000000000	3.6566500000	0.0000000000
57	MQABT02	5592.4108100000	80.6000000000	105.5923157265	193.9541885889	0.0000000000	3.6566500000	0.0000000000
58	MBDBT02H	5592.4108100000	80.6000000000	105.5923157265	193.9541885889	0.0000000000	3.6566500000	0.0000000000
59	MBDBT02V	5592.4108100000	80.6000000000	105.5923157265	193.9541885889	0.0000000000	3.6566500000	0.0000000000
60	D11017	5594.4108100000	80.6000000000	105.7198702598	195.9501169045	0.0000000000	3.6566500000	0.0000000000
61	IPMBT03	5594.4108100000	80.6000000000	105.7198702598	195.9501169045	0.0000000000	3.6566500000	0.0000000000
62	MQABT03	5594.7108100000	80.6000000000	105.7390034398	196.2495061518	0.0000000000	3.6566500000	0.0000000000
63	MBDBT03H	5594.7108100000	80.6000000000	105.7390034398	196.2495061518	0.0000000000	3.6566500000	0.0000000000
64	MBDBT03V	5594.7108100000	80.6000000000	105.7390034398	196.2495061518	0.0000000000	3.6566500000	0.0000000000
65	D11018	5596.7108100000	80.6000000000	105.8665579731	198.2454344674	0.0000000000	3.6566500000	0.0000000000
66	IPMBT04	5596.7108100000	80.6000000000	105.8665579731	198.2454344674	0.0000000000	3.6566500000	0.0000000000
67	MQABT04	5597.0108100000	80.6000000000	105.8856911531	198.5448237148	0.0000000000	3.6566500000	0.0000000000
68	MBDBT04H	5597.0108100000	80.6000000000	105.8856911531	198.5448237148	0.0000000000	3.6566500000	0.0000000000
69	MBDBT04V	5597.0108100000	80.6000000000	105.8856911531	198.5448237148	0.0000000000	3.6566500000	0.0000000000
70	D11019	5621.9471100000	80.6000000000	107.476062079	223.4303573429	0.0000000000	3.6566500000	0.0000000000
71	MARS001	5625.9472200000	80.6000000000	107.9050585515	227.4061180024	0.0000000000	8.6605200000	0.0000000000
72	D11015	5626.4472200000	80.6000000000	107.9803483799	227.9004169420	0.0000000000	8.6605200000	0.0000000000
73	MARS002	5630.4473300000	80.6000000000	108.7544896191	231.8236066827	0.0000000000	13.6643900000	0.0000000000
74	D4002	5632.3473300000	80.6000000000	109.2033347343	233.6698293298	0.0000000000	13.6643900000	0.0000000000
75	IPMSC01	5632.3473300000	80.6000000000	109.2033347343	233.6698293298	0.0000000000	13.6643900000	0.0000000000
76	MQASC01	5632.6473300000	80.6000000000	109.2742050156	233.9613381688	0.0000000000	13.6643900000	0.0000000000
77	MBDSC01H	5632.6473300000	80.6000000000	109.2742050156	233.9613381688	0.0000000000	13.6643900000	0.0000000000
78	MBDSC01V	5632.6473300000	80.6000000000	109.2742050156	233.9613381688	0.0000000000	13.6643900000	0.0000000000
79	D4005	5633.3973300000	80.6000000000	109.4513807190	234.6901102663	0.0000000000	13.6643900000	0.0000000000
80	IPMSC02	5633.3973300000	80.6000000000	109.4513807190	234.6901102663	0.0000000000	13.6643900000	0.0000000000
81	MQASC02	5633.6973300000	80.6000000000	109.5222510004	234.9816191053	0.0000000000	13.6643900000	0.0000000000
82	D4004	5633.8973300000	80.6000000000	109.5694978546	235.1759583313	0.0000000000	13.6643900000	0.0000000000
83	MQASC02A	5634.1973300000	80.6000000000	109.6403681360	235.4674671703	0.0000000000	13.6643900000	0.0000000000
84	MBDSC02H	5634.1973300000	80.6000000000	109.6403681360	235.4674671703	0.0000000000	13.6643900000	0.0000000000
85	MBDSC02V	5634.1973300000	80.6000000000	109.6403681360	235.4674671703	0.0000000000	13.6643900000	0.0000000000
86	D4006	5634.9473300000	80.6000000000	109.8175438393	236.1962392679	0.0000000000	13.6643900000	0.0000000000
87	IPMSC04	5634.9473300000	80.6000000000	109.8175438393	236.1962392679	0.0000000000	13.6643900000	0.0000000000
88	MQASC03	5635.2473300000	80.6000000000	109.8884141207	236.4877481069	0.0000000000	13.6643900000	0.0000000000
89	MBDSC03H	5635.2473300000	80.6000000000	109.8884141207	236.4877481069	0.0000000000	13.6643900000	0.0000000000
90	MBDSC03V	5635.2473300000	80.6000000000	109.8884141207	236.4877481069	0.0000000000	13.6643900000	0.0000000000
91	D4003	5638.0473300000	80.6000000000	110.5498700800	239.2084972710	0.0000000000	13.6643900000	0.0000000000
92	IPMSC04	5638.0473300000	80.6000000000	110.5498700800	239.2084972710	0.0000000000	13.6643900000	0.0000000000
93	MQASC04	5638.3473300000	80.6000000000	110.6207403613	239.5000061100	0.0000000000	13.6643900000	0.0000000000
94	MBDSC04H	5638.3473300000	80.6000000000	110.6207403613	239.5000061100	0.0000000000	13.6643900000	0.0000000000
95	MBDSC04V	5638.3473300000	80.6000000000	110.6207403613	239.5000061100	0.0000000000	13.6643900000	0.0000000000
96	D4007	5640.3973300000	80.6000000000	111.1050206172	241.4919831766	0.0000000000	13.6643900000	0.0000000000
97	IPMSC05	5640.3973300000	80.6000000000	111.1050206172	241.4919831766	0.0000000000	13.6643900000	0.0000000000
98	MQASC05	5640.6973300000	80.6000000000	111.1758908986	241.7834920156	0.0000000000	13.6643900000	0.0000000000
99	MBDSC05H	5640.6973300000	80.6000000000	111.1758908986	241.7834920156	0.0000000000	13.6643900000	0.0000000000
100	MBDSC05V	5640.6973300000	80.6000000000	111.1758908986	241.7834920156	0.0000000000	13.6643900000	0.0000000000
101	D4011	5641.4473300000	80.6000000000	111.3530666020	242.5122641131	0.0000000000	13.6643900000	0.0000000000
102	IPMSC06	5641.4473300000	80.6000000000	111.3530666020	242.5122641131	0.0000000000	13.6643900000	0.0000000000
103	MQASC06	5641.7473300000	80.6000000000	111.4239368833	242.8037729521	0.0000000000	13.6643900000	0.0000000000
104	D4004	5641.9473300000	80.6000000000	111.4711837375	242.9981121781	0.0000000000	13.6643900000	0.0000000000
105	MQASC06A	5642.2473300000	80.6000000000	111.5420540189	243.2896210171	0.0000000000	13.6643900000	0.0000000000
106	MBDSC06H	5642.2473300000	80.6000000000	111.5420540189	243.2896210171	0.0000000000	13.6643900000	0.0000000000
107	MBDSC06V	5642.2473300000	80.6000000000	111.5420540189	243.2896210171	0.0000000000	13.6643900000	0.0000000000
108	D4012	5642.9973300000	80.6000000000	111.7192297223	244.0183931147	0.0000000000	13.6643900000	0.0000000000
109	IPMSC07	5642.9973300000	80.6000000000	111.7192297223	244.0183931147	0.0000000000	13.6643900000	0.0000000000
110	MQASC07	5643.2973300000	80.6000000000	111.7901000036	244.3099019537	0.0000000000	13.6643900000	0.0000000000
111	MBDSC07H	5643.2973300000	80.6000000000	111.7901000036	244.3099019537	0.0000000000	13.6643900000	0.0000000000
112	MBDSC							

134	D4023	5661.2975500000	80.6000000000	115.1489208366	261.9592191551	0.0000000000	3.6566500000	0.0000000000
135	IPM5C11	5661.2975500000	80.6000000000	115.1489208366	261.9592191551	0.0000000000	3.6566500000	0.0000000000
136	MQP5C11	5661.5975500000	80.6000000000	115.1680540166	262.2586084025	0.0000000000	3.6566500000	0.0000000000
137	D4039	5661.7975500000	80.6000000000	115.1808094699	262.4582012340	0.0000000000	3.6566500000	0.0000000000
138	MQP5C11A	5662.0975500000	80.6000000000	115.1999426499	262.7575904814	0.0000000000	3.6566500000	0.0000000000
139	MBD5C11H	5662.0975500000	80.6000000000	115.1999426499	262.7575904814	0.0000000000	3.6566500000	0.0000000000
140	MBD5C11V	5662.0975500000	80.6000000000	115.1999426499	262.7575904814	0.0000000000	3.6566500000	0.0000000000
141	D4038	5663.8475500000	80.6000000000	115.3115528666	264.5040277575	0.0000000000	3.6566500000	0.0000000000
142	IPM5C12	5663.8475500000	80.6000000000	115.3115528666	264.5040277575	0.0000000000	3.6566500000	0.0000000000
143	MQP5C12	5664.1475500000	80.6000000000	115.3306860466	264.8034170049	0.0000000000	3.6566500000	0.0000000000
144	D4039	5664.3475500000	80.6000000000	115.3434414999	265.0030098364	0.0000000000	3.6566500000	0.0000000000
145	MQP5C12A	5664.6475500000	80.6000000000	115.3625746799	265.3023990838	0.0000000000	3.6566500000	0.0000000000
146	MBD5C12H	5664.7975500000	80.6000000000	115.3721412699	265.4520937074	0.0000000000	3.6566500000	0.0000000000
147	MBD5C12V	5664.9475500000	80.6000000000	115.3817078599	265.6017883311	0.0000000000	3.6566500000	0.0000000000
148	D4038	5666.6975500000	80.6000000000	115.4933180766	267.3482256073	0.0000000000	3.6566500000	0.0000000000
149	IPM5C13	5666.6975500000	80.6000000000	115.4933180766	267.3482256073	0.0000000000	3.6566500000	0.0000000000
150	MQP5C13	5666.9975500000	80.6000000000	115.5124512566	267.6476148546	0.0000000000	3.6566500000	0.0000000000
151	D4039	5667.1975500000	80.6000000000	115.5252067099	267.8472076862	0.0000000000	3.6566500000	0.0000000000
152	MQP5C13A	5667.4975500000	80.6000000000	115.5443398899	268.1465969335	0.0000000000	3.6566500000	0.0000000000
153	MBD5C13H	5667.6475500000	80.6000000000	115.5539064799	268.2962915572	0.0000000000	3.6566500000	0.0000000000
154	MBD5C13V	5667.7975500000	80.6000000000	115.5634730699	268.4459861809	0.0000000000	3.6566500000	0.0000000000
155	D4038	5669.5475500000	80.6000000000	115.6750832866	270.1924234570	0.0000000000	3.6566500000	0.0000000000
156	IPM5C14	5669.5475500000	80.6000000000	115.6750832866	270.1924234570	0.0000000000	3.6566500000	0.0000000000
157	MQP5C14	5669.8475500000	80.6000000000	115.6942164666	270.4918127043	0.0000000000	3.6566500000	0.0000000000
158	D4039	5670.0475500000	80.6000000000	115.7069719199	270.6914055359	0.0000000000	3.6566500000	0.0000000000
159	MQP5C14A	5670.3475500000	80.6000000000	115.7261050999	270.9907947832	0.0000000000	3.6566500000	0.0000000000
160	MBD5C14H	5670.3475500000	80.6000000000	115.7261050999	270.9907947832	0.0000000000	3.6566500000	0.0000000000
161	MBD5C14V	5670.3475500000	80.6000000000	115.7261050999	270.9907947832	0.0000000000	3.6566500000	0.0000000000
162	D4040	5670.3975500000	80.6000000000	115.7292939633	271.0406929911	0.0000000000	3.6566500000	0.0000000000
163	MBD5C12H	5670.5475500000	80.6000000000	115.7388605533	271.1903876148	0.0000000000	3.6566500000	0.0000000000
164	D4040	5670.5975500000	80.6000000000	115.7420494166	271.2402858227	0.0000000000	3.6566500000	0.0000000000
165	MBD5C12V	5670.7475500000	80.6000000000	115.7516160066	271.3899804464	0.0000000000	3.6566500000	0.0000000000
166	D4041	5683.7475500000	80.6000000000	116.5807204733	284.3635144978	0.0000000000	3.6566500000	0.0000000000
167	IPM5C30	5683.7475500000	80.6000000000	116.5807204733	284.3635144978	0.0000000000	3.6566500000	0.0000000000
168	MBD5C13H	5683.8975500000	80.6000000000	116.5902870633	284.5132091215	0.0000000000	3.6566500000	0.0000000000
169	D4040	5683.9475500000	80.6000000000	116.5934759266	284.5631073293	0.0000000000	3.6566500000	0.0000000000
170	MBD5C13V	5684.0975500000	80.6000000000	116.6030425166	284.7128019530	0.0000000000	3.6566500000	0.0000000000
171	D4042	5687.5338800000	80.6000000000	116.8222022514	288.1421361274	0.0000000000	3.6566500000	0.0000000000
172	IPM5C31	5687.5338800000	80.6000000000	116.8222022514	288.1421361274	0.0000000000	3.6566500000	0.0000000000
173	RADIATOR	5687.5338800000	80.6000000000	116.8222022514	288.1421361274	0.0000000000	3.6566500000	0.0000000000
174	D4028	5762.5338800000	80.6000000000	121.6054972514	362.9894479625	0.0000000000	3.6566500000	0.0000000000
175	COLLIM	5762.5338800000	80.6000000000	121.6054972514	362.9894479625	0.0000000000	3.6566500000	0.0000000000
176	D4029	5804.5338800000	80.6000000000	124.2841424515	404.9039425902	0.0000000000	3.6566500000	0.0000000000
177	BACKWALL	5804.5338800000	80.6000000000	124.2841424515	404.9039425902	0.0000000000	3.6566500000	0.0000000000
178	D4030	5809.5338800000	80.6000000000	124.6030287848	409.8937633792	0.0000000000	3.6566500000	0.0000000000

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