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Lockheed
Missiles & Space Company

Huntsville Research & Engineering Center

4800 Bradford Drive, Huntsville, AL 35807

 **Lockheed**
Missiles & Space Company, Inc
Huntsville Research & Engineering Center

Cummings Research Park
4800 Bradford Drive
Huntsville, AL 35807

SSME STRUCTURAL DYNAMIC
MODEL DEVELOPMENT

FINAL REPORT

December 1983

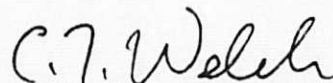
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Prepared for National Aeronautics and Space Administration
Marshall Space Flight Center, AL 35812

by

M. J. Foley
D. M. Tilley
C. T. Welch

APPROVED



C. T. Welch, Manager (Acting)
Product Engineering & Dev. Section



S. V. Bourgeois
Director

FOREWORD

This report summarizes the development of a dynamic mathematical model of the Space Shuttle Main Engine by application of the EAL macro-element procedures. This work was performed by personnel of the Dynamics & Loads Group, Product Engineering & Development Section of the Lockheed-Huntsville Research & Engineering Center for the National Aeronautics and Space Administration under Contract NAS8-34973. Technical activities were monitored by Larry A. Kiefling of the MSFC Systems Dynamics Laboratory, Systems Analysis Branch (ED22).

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1. INTRODUCTION

The objective of this work was to develop a mathematical model of the Space Shuttle Main Engine (SSME) as a complete assembly, with detailed emphasis on LOX and High Pressure Fuel Turbopumps.

Previous analyses had been either an elementary (i.e., beam) representation of the SSME as a whole, or a detailed high fidelity model of a component of the SSME, analyzed as an isolated structure under limited boundary conditions. With the advent of an operational computer program featuring macro-element capability (the EAL-SPAR Finite Element program) it became possible to incorporate the advantages of both complete engine dynamics, and high fidelity modeling where desired.

The following sections discuss how development of this model was achieved, some results from the model, and projected applications of the model.

2. THE MACRO-ELEMENT METHODS

The analysis tool selected for the development of the SSME dynamic model is the EAL-SPAR computer code. This code features a macro-element procedure which allows the efficient development and execution of very large and complex finite element models. For further details, see Ref. 1.

The salient features of the macro-element procedure are:

1. Construct finite element models of components of the ultimate structure in an essentially independent manner. These models may be defined by natural boundaries; that is, mechanical joints, change of material, etc., or by consideration of size, with boundaries defined arbitrarily.
2. Use EAL-SPAR to transform the structural properties of these models from the large but sparse matrices of the finite element model to smaller (but denser) matrices at a reduced set of boundary degrees of freedom. These "boundary" degrees of freedom are not required to be at a physical boundary of the model, but may be retained because they are of special interest. All degrees of freedom forming an interface with another model must be included in the boundary set.
3. These reduced matrices, which implicitly contain the structural definition of the original finite element models are the macro-element matrices.
4. Assemble the macro-element matrices in a manner analogous to that of finite element analyses.
5. Solve these matrices for the resulting reduced structure. In our case, this involves the eigenvalue and vector solution for normal modes.
6. If desired, all displacements of the original finite element models may be found by the inverse transformation of step 2 above.

Note that this procedure is sometimes called the "substructure," or "superelement" method on some other programs and in the literature of finite element analysis. These are essentially the same as the EAL-SPAR macro-element procedure.

3. SSME DYNAMIC MODEL DEVELOPMENT

Using the procedures outlined in Section 2, the SSME was divided into five main areas for development of macro-element models. These were:

1. Hot Gas Manifold
2. Main Combustion Chamber
3. High Pressure Fuel Pump
4. High Pressure Oxygen Pump, and
5. Nozzle.

For the first four areas a single macro-element was processed. Because of some program limitation and to be able also to use existing data as much as possible, the nozzle was processed as five macro-elements. These macro-elements were processed and assembled into the system model, and solved for normal modes.

The modeling of each major component and construction of the system model (with representative results) are discussed in the following sections. Appendix A discusses experience gained in applying EAL-SPAR. Appendix B lists the data for this model. Although presented as a continuous input stream, this model is far too complex for execution in a single computer run. Before trying to use this as an example, the reader should review with care the experience which Lockheed gained in using this model.

3.1 HOT GAS MANIFOLD

The hot gas manifold (HGM) proved to be the most difficult of the SSME components modeled in this task. The geometry of the interfaces between the LOX and fuel manifolds led to a fairly detailed element definition. This

model was of particular interest in the analysis, since all of the other major SSME components attach directly or indirectly to the HGM. Figures 1 and 2 show the HGM finite element model.

There are 1814 joints in the model with 1450 quadrilateral and 115 triangular plate elements. Boundary joints used were physical boundaries at the Gimbal, High Pressure Fuel Turbopump, High Pressure Oxygen Turbopump, and the Main Combustion Chamber. These joint descriptions are summarized in Table 1.

In addition to the plots of the complete manifold, specific critical areas of the HGM are shown separately in Figs. 3 through 7.

Table 1 HGM BOUNDARY JOINTS

Joints	Description
1-7	Injector Sphere/MCC Interface
288	Gimbal Point
229-235	Fuel Sphere/HPFTP Interface
469-475	Oxidizer Sphere/HPOTP Interface
988-992	Injector Sphere/MCC Interface
1171-1175	Fuel Sphere/HPFTP Interface
1367-1371	Oxidizer Sphere/HPOTP Interface

Total = 37 Boundary Joints

3.2 MAIN COMBUSTION CHAMBER

The SSME main combustion chamber (MCC) finite element model resembles a spool piece between the hot gas manifold and the nozzle. Figure 8 is a computer generated plot of this component. Note in this figure that the MCC is comprised of two concentric conic sections, the ends of which are flanged to bolt to the Hot Gas Manifold on one end and the Nozzle on the other. This component required 372 joints in the model with 360 quadrilateral and

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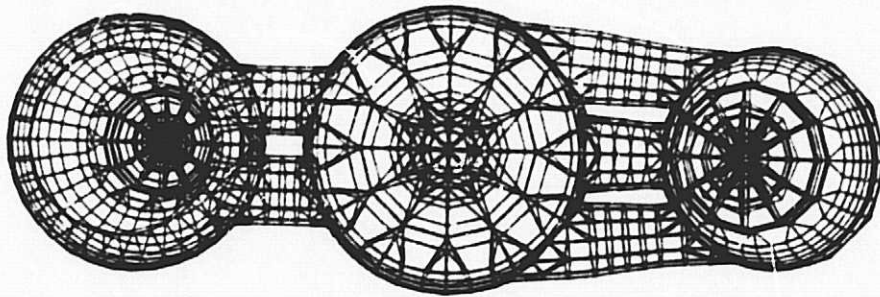


Fig. 1 - Hot Gas Manifold (Top View)

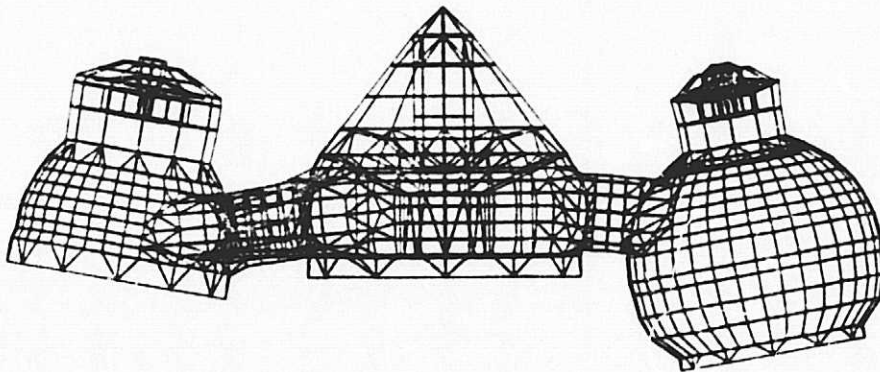


Fig. 2 - Hot Gas Manifold (Side View)

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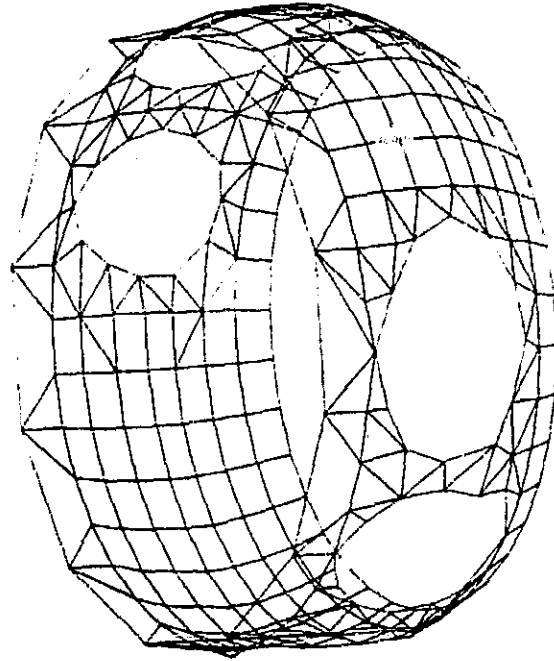


Fig. 3 HGM Injector Sphere

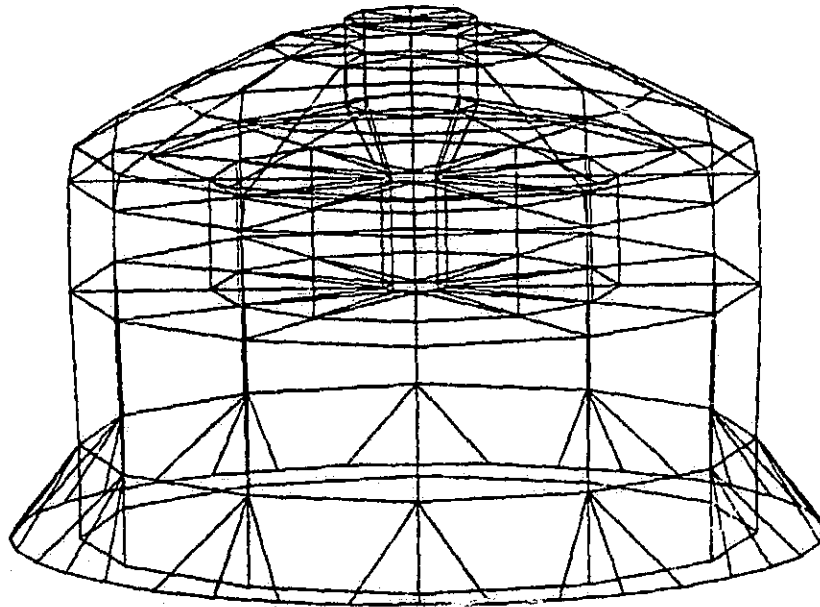


Fig. 4 - HGM Fuel Preburner

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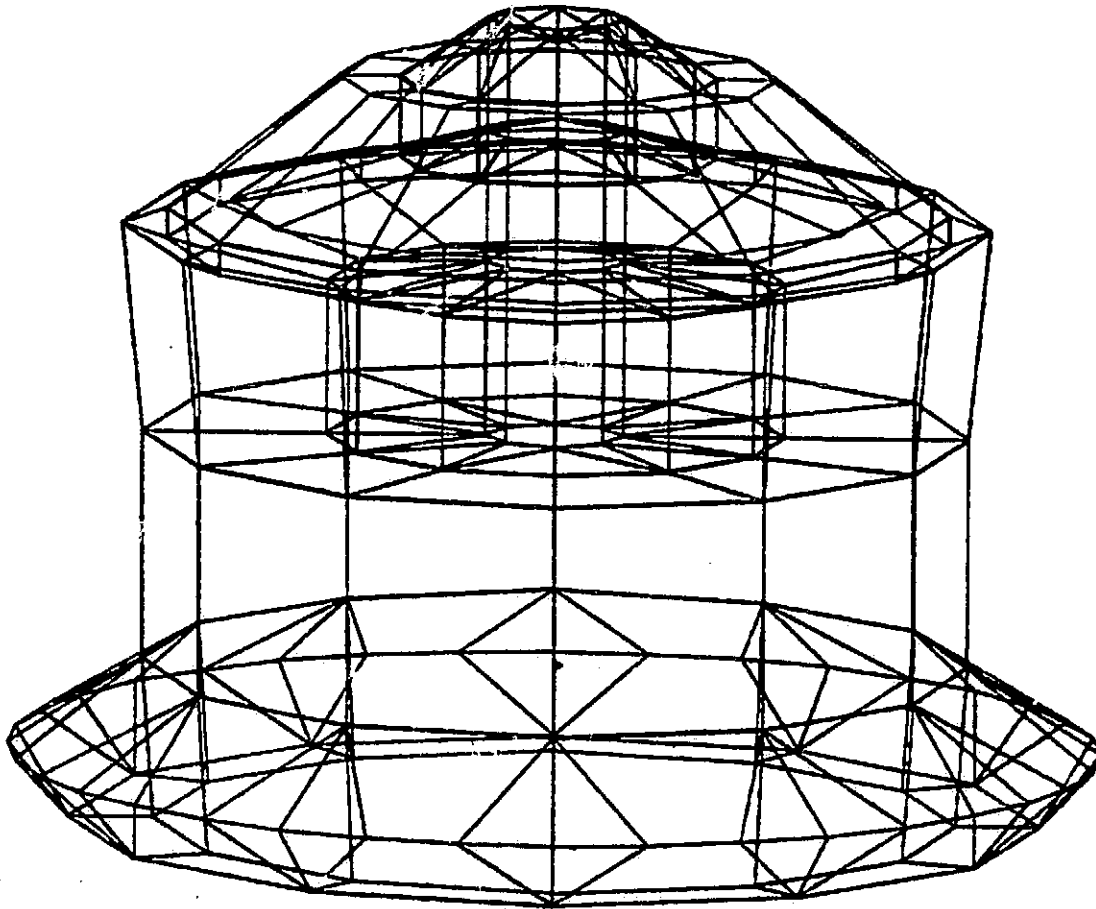


Fig. 5 - HGM Oxygen Preburner

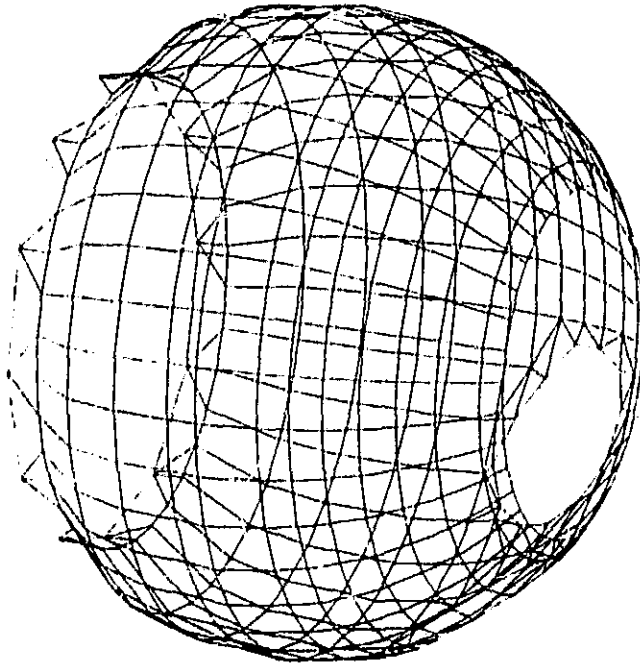


Fig. 6 - HGM Oxygen Sphere

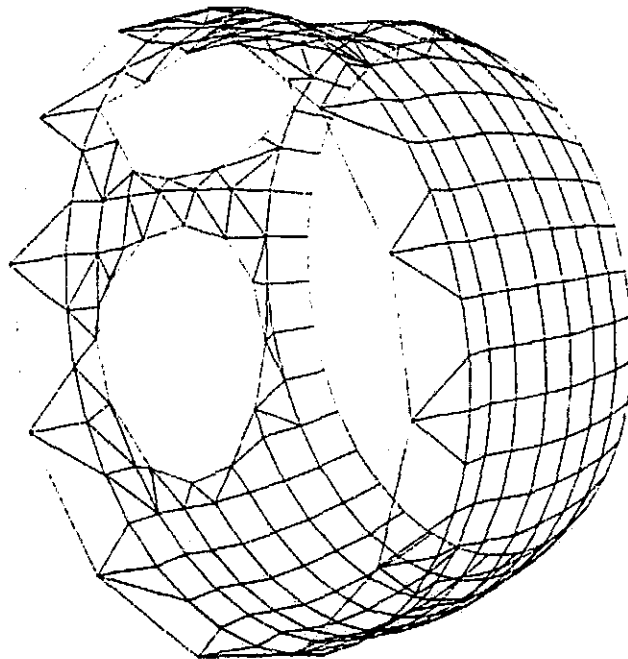


Fig. 7 - HGM Fuel Sphere

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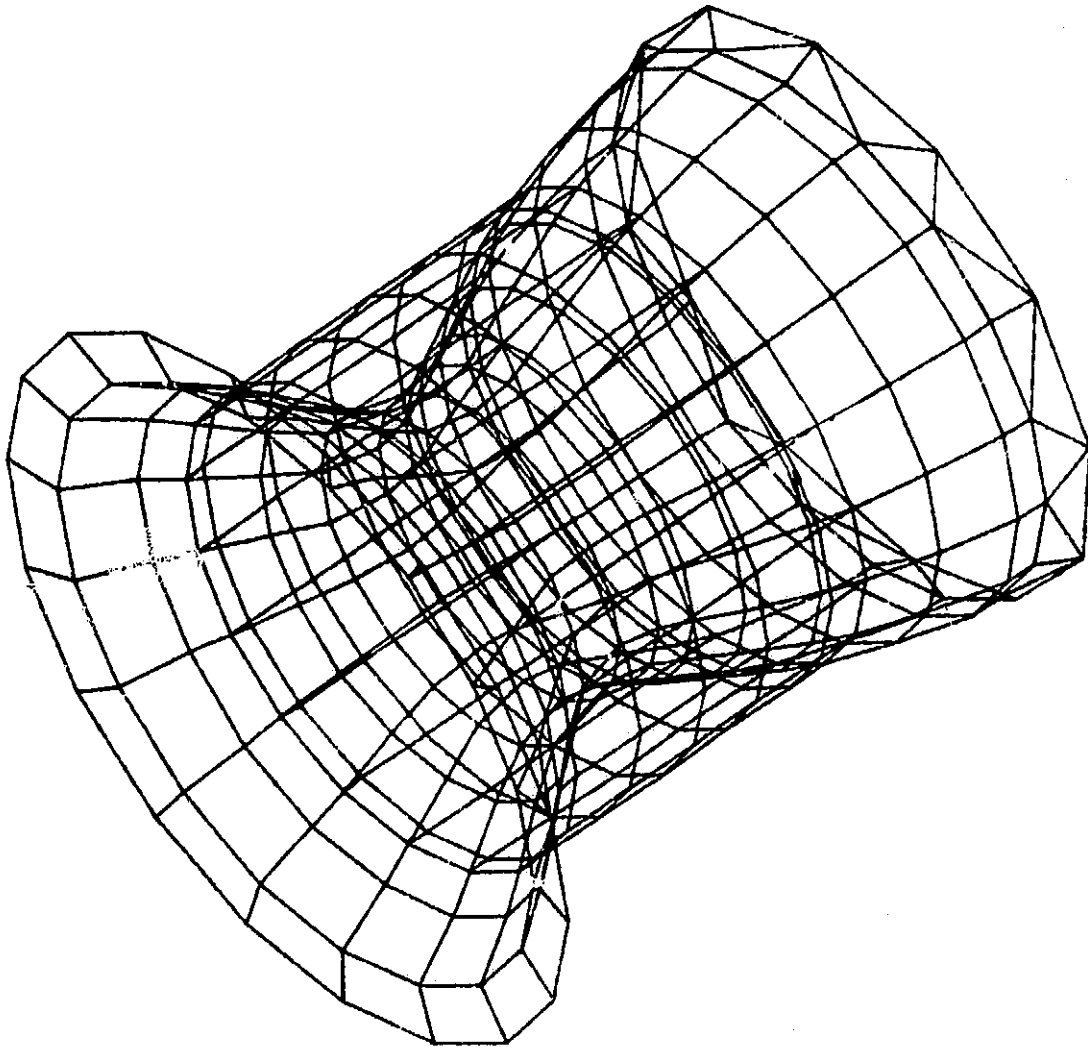


Fig. 8 - Main Combustion Chamber Model

30 triangular plate elements. In addition, 30 bar elements were used to account for the additional stiffness that the two flanges provide.

This macro-element in the SSME model was like the Hot Gas Manifold in that the boundary joints selected were indeed the physical boundaries. Twelve boundary nodes exist on the HGM side of the combustion chamber since those nodes are on a 30 deg spacing, while 18 boundary nodes are on the nozzle side of the MCC since those nodes are on a 20 deg spacing.

The thickness of the concentric shells varied along the axis of the main combustion chamber. For this reason, both the throat and the outer ring used the laminate formulation for the shell section properties in addition to the isotropic sections. Boundary joints are summarized in Table 2.

Table 2 MAIN COMBUSTION CHAMBER BOUNDARY JOINTS

Joints	Description
343-354	Upper Interface Nodes to HGM
355-372	Lower Interface Nodes to NOZ5

Total = 30 Boundary Joints.

3.3 HIGH PRESSURE FUEL TURBOPUMP

With the exception of the Hot Gas Manifold, the High Pressure Fuel Turbopump (HPFTP) was the most detailed of the SSME components modeled for this analysis. The detail used in this math model required 1041 joints with 1824 quadrilateral and 315 triangular plate elements. In addition, six bar elements were placed along the axis of the model to form the shaft. Plots of the HPFTP are shown in Figs. 9 through 18.

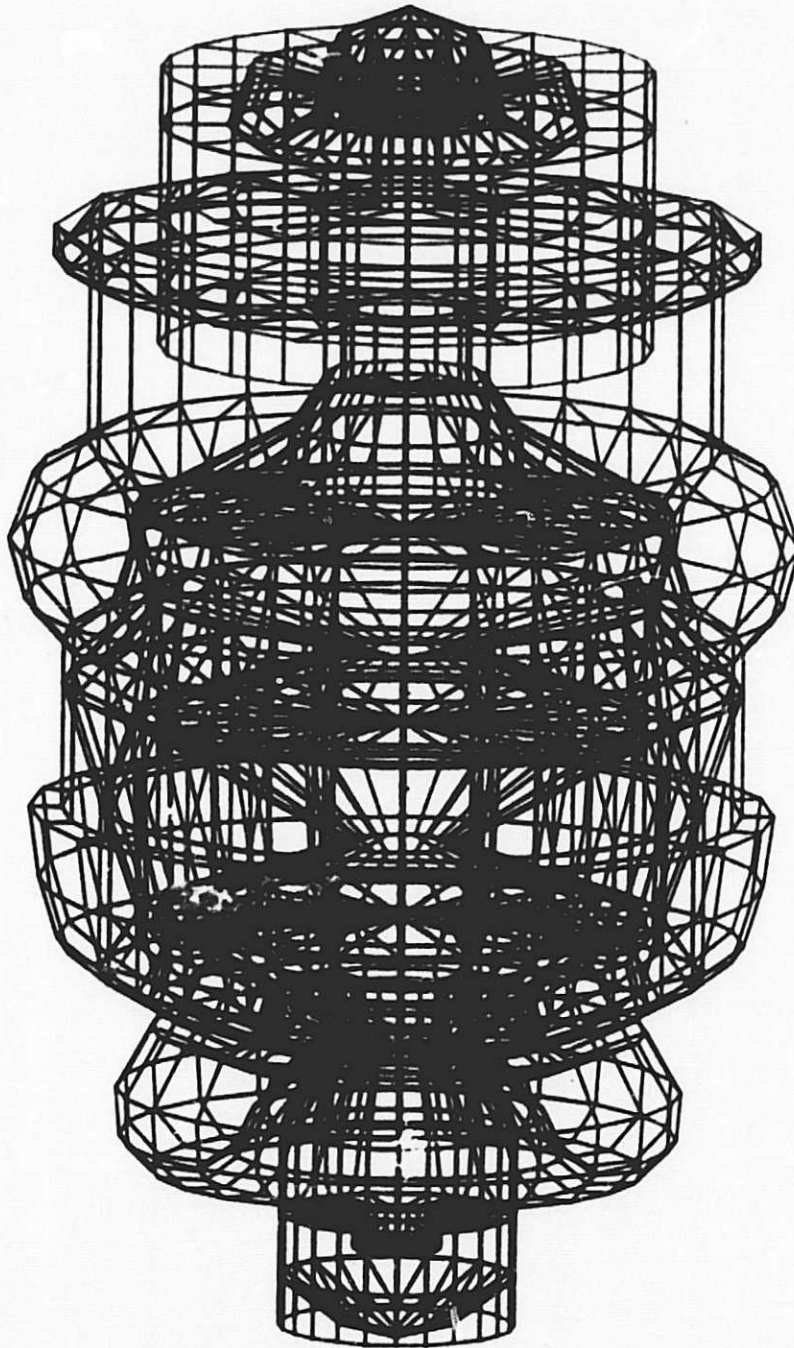


Fig. 9 - High Pressure Fuel Turbopump (Complete)

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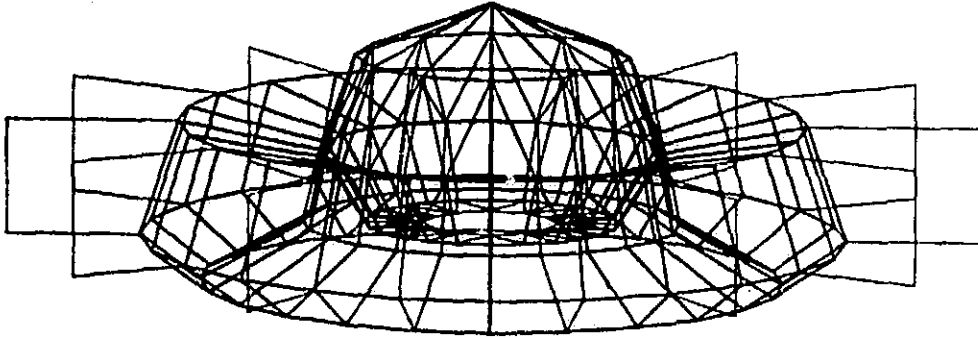


Fig. 10 - HPFTP Forward Bearing Housing

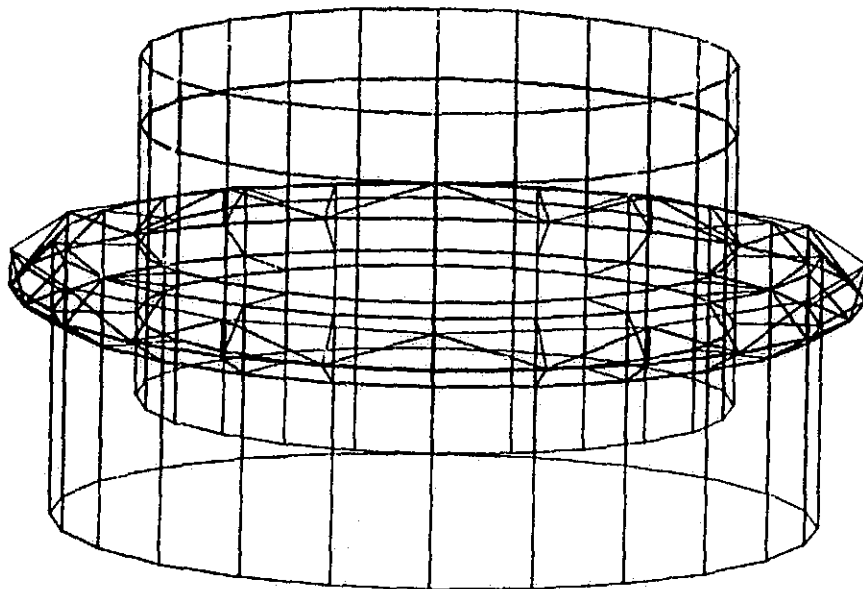


Fig. 11 - HPFTP Attach Flange

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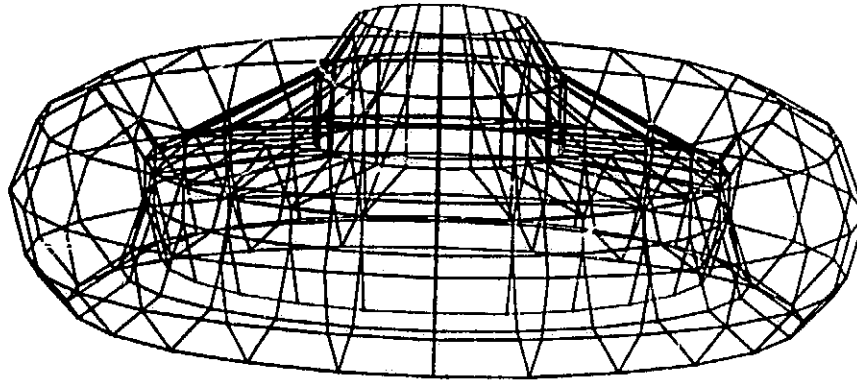


Fig. 12 - HPFTP Exit Volute

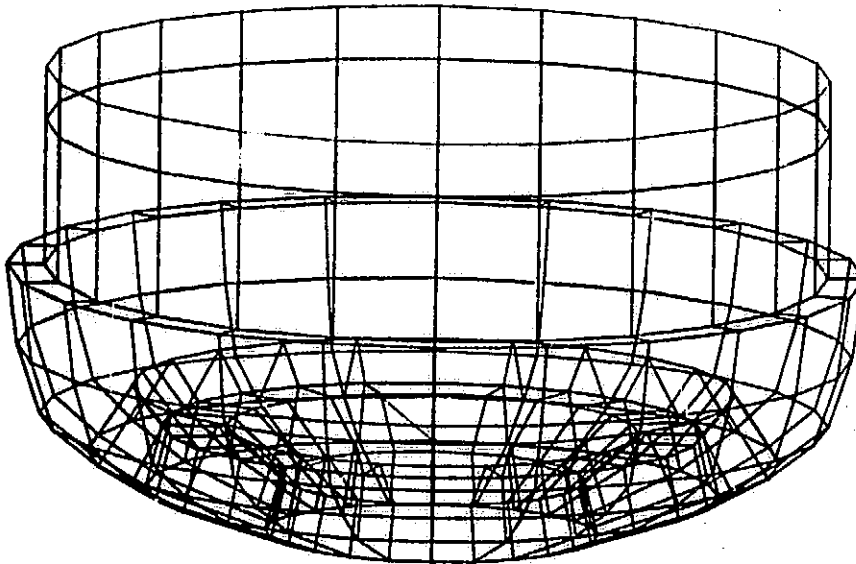


Fig. 13 - HPFTP Pump Housing

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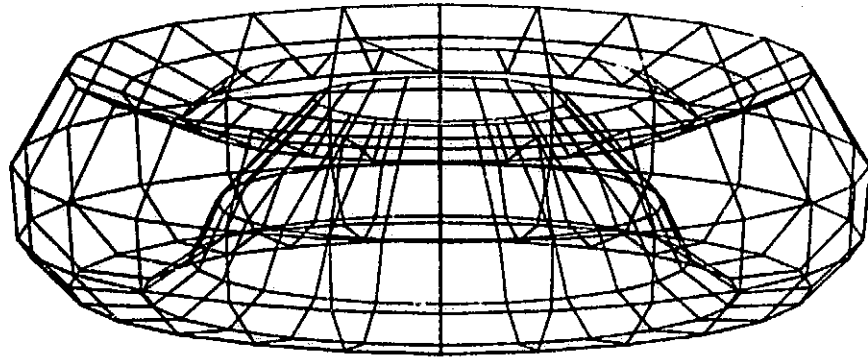


Fig. 14 - HPFTP Inlet Volute

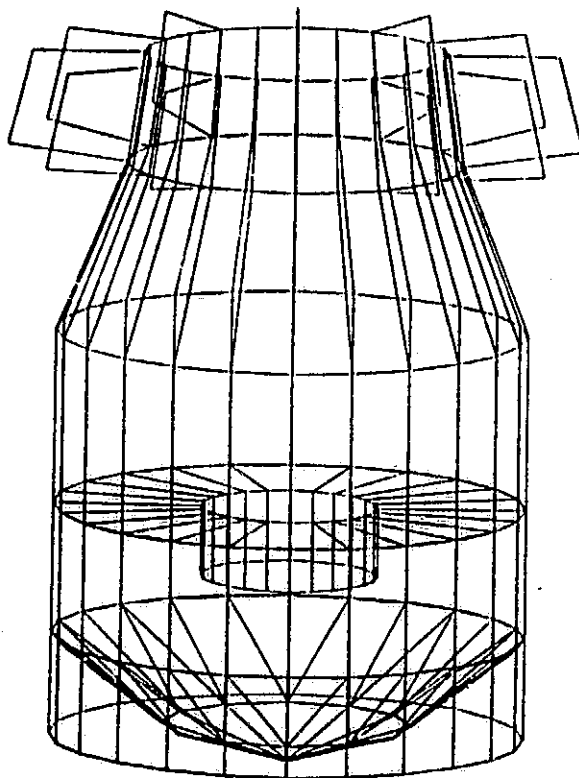


Fig. 15 - HPFTP Aft Bearing Housing

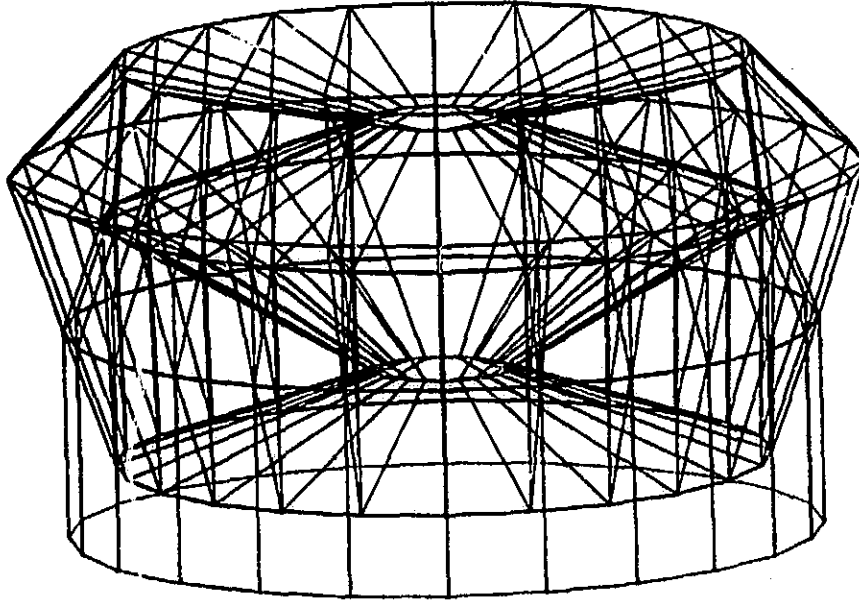


Fig. 16 - HPFTP Inner Stator

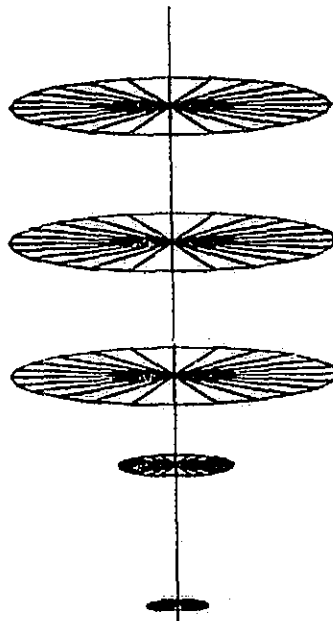


Fig. 17 - HPFTP Aft Shaft Assembly

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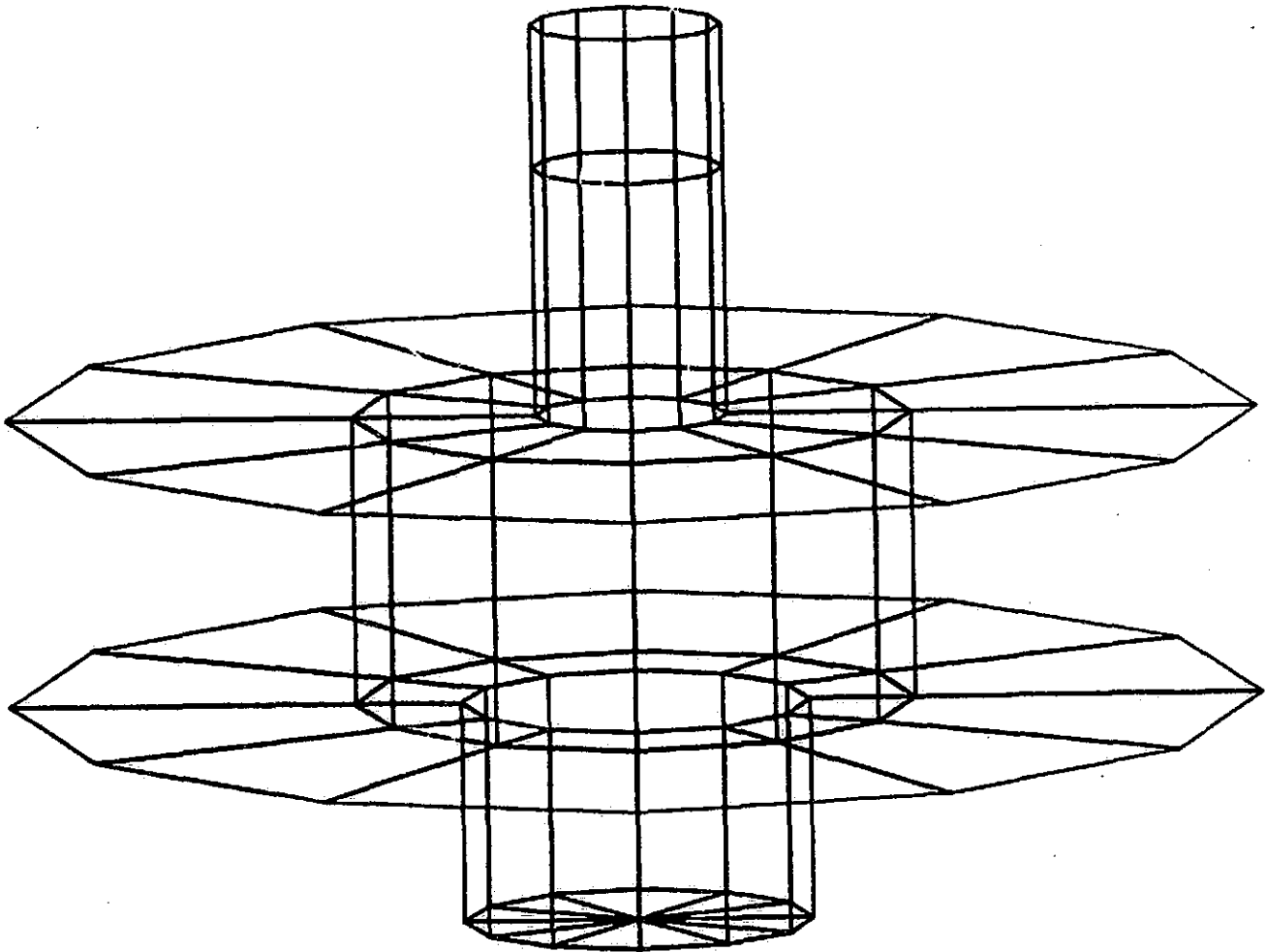


Fig. 18 - HPFTP Forward Shaft Assembly

The mass and inertial properties of the HPFTP model were computed and checked against published data (Ref. 2). These calculations were crucial to the analysis, since the vibration frequencies and mode shapes are dependent on both the mass and stiffness distribution in the structure. Table 3 summarizes these calculations.

The boundary joints in the LOX Pump were comprised of both physical boundary points and interior points. There were two reasons for this choice: (1) there was a threshold of approximately 40 boundary joints for each component due to computer limitations and the number of physical boundary joints on the HGM attach flange was well below that value; and (2) although selection of these boundary joints is totally arbitrary for static analysis, a reasonable mass distribution must be chosen for dynamic analysis. For these reasons, additional points along the rotor and housing were chosen to be boundary joints where significant mass existed. Table 4 shows a list of these boundary points with brief descriptions of their locations.

3.4 HIGH PRESSURE OXIDIZER TURBOPUMP

The HPOTP model used in the present analysis task was a modification of an existing Lockheed model. The original model was a NASTRAN finite element model of the pump housing only. This model was comprised entirely of triangular plate element, and no internal components of the pump were present. This was insufficient for dynamic analysis of the pump, so internal components were added. These components included the rotor, bearings, flange on the HGM side of the LOX pump, the turbine blades and the end cap.

Conversion of the NASTRAN model to SPAR format was greatly aided by the use of a FORTRAN code obtained from Larry A. Kiefling (MSFC ED22) which was written specifically for that purpose. Several modifications had to be made to the conversion software before it would operate on our model. First,

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Table 3 HPFTP WEIGHT AND BALANCE CALCULATIONS

ANALYSIS OF MASS AND INERTIA PROPERTIES

MASS MATRIX NAME= DEN

TOTAL MASS= .779267+03

MASS CENTER LOCATION (X,Y,Z)= -.308653+02 -.196430+02 -.196430+02

INERTIA MATRIX:

	1	2	3	4	5	6
1	.77927+03	.00000	.00000	.00000	-.17684-03	.10830-03
2	.00000	.77927+03	.00000	.17684-03	.00000	-.26453-03
3	.00000	.00000	.77927+03	-.10830-03	.26453-03	.00000
4	.00000	.17634-03	-.10816-03	.34167+05	-.41454+04	-.41456+04
5	-.17634-03	.00000	.26468-03	-.41454+04	.66889+05	-.51864+03
6	.10816-03	-.26468-03	.00000	-.41456+04	-.51864+03	.66889+05

STOP

E DATA SPACE= 20000 D/T= 830801 145714

T= .10000-19 -.10000-02 .10000-04 .10000-04

.40000+01 .10000-03 .10000-03 .10000-03

ERROR LEVELS= 2 2 0 2 2 2 2 2

TYPE	GROUP	L, VOL OR AREA SUM	STRUCTURAL WEIGHT	NON-STRUCTURAL WEIGHT
E21	1	.235500+02	.369144+02	.000000
E33	1	.316368+02	.642635+01	.000000
E33	2	.438076+02	.129232+02	.000000
E33	3	.386100+02	.341698+01	.000000
E33	4	.107344+01	.158332-01	.000000
E33	5	.732610+00	.108060-01	.000000
E33	6	.326652+02	.481811+00	.000000
E33	7	.301625+01	-.444897-01	.000000
E33	8	.349188+03	.602616+02	.000000
E33	9	.720750+01	.106311+01	.000000
E33	ALL	.507937+03	.846442+02	.000000
E43	1	.189466+03	.326784+02	.000000
E43	2	.706024+03	.148794+03	.000000
E43	3	.102142+04	.105587+03	.000000
E43	4	.971182+03	.162302+03	.000000
E43	5	.401086+03	.166914+02	.000000
E43	6	.197375+03	.294127+02	.000000
E43	7	.173547+04	.108887+03	.000000
E43	8	.686388+01	.506211+00	.000000
E43	9	.256210+03	.528487+02	.000000
E43	ALL	.548567+04	.657705+03	.000000

TOTAL .779262+03 .000000

TOTAL 2-MODE: .235500+02

TOTAL 3-MODE: .507937+03

TOTAL 4-MODE: .548567+04

STOP E 5.725 90 181

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Table 4 HPFTP BOUNDARY JOINTS

* (BN)		
350,361	\$	* BOUNDARY* FLANGE NODES @ HGM
1454	\$	AFT END NODE
1456	\$	AFT BEARING
1457	\$	INTERMEDIATE BEARING
1483	\$	INTERMEDIATE ROTOR
1533	\$	ON ROTOR
1618,1629	\$	FORWARD BEARING
158	\$	FORWARD CASE
164	\$	FORWARD CASE
170	\$	FORWARD CASE
176	\$	FORWARD CASE
698	\$	INTERMEDIATE CASE
704	\$	INTERMEDIATE CASE
710	\$	INTERMEDIATE CASE
716	\$	INTERMEDIATE CASE
*		

ENDHPFTP

several of the dimension statements had to be increased, but this change was trivial. There were several logic errors detected in the coordinate system transformation routines, and one in the constraint definition translator. Also, the code would only accommodate nine alternate reference frames, and this portion of the source code had to be modified. During this modification period, Larry A. Kiefling added solid element capability to convert NASTRAN brick elements to SPAR S81 type elements. The revised version of the Teledyne Brown NASTOSPAR code is now in use by Lockheed and NASA personnel.

The completed EAL model of the SSME High Pressure Oxygen Turbopump was fairly detailed. The three orthogonal views of the complete pump are shown in Figures 19 through 21. In this model, 1069 joints were used with 1373 triangular and 514 quadrilateral plate elements. In addition, 51 bar elements were required to give a total of 1938 finite elements.

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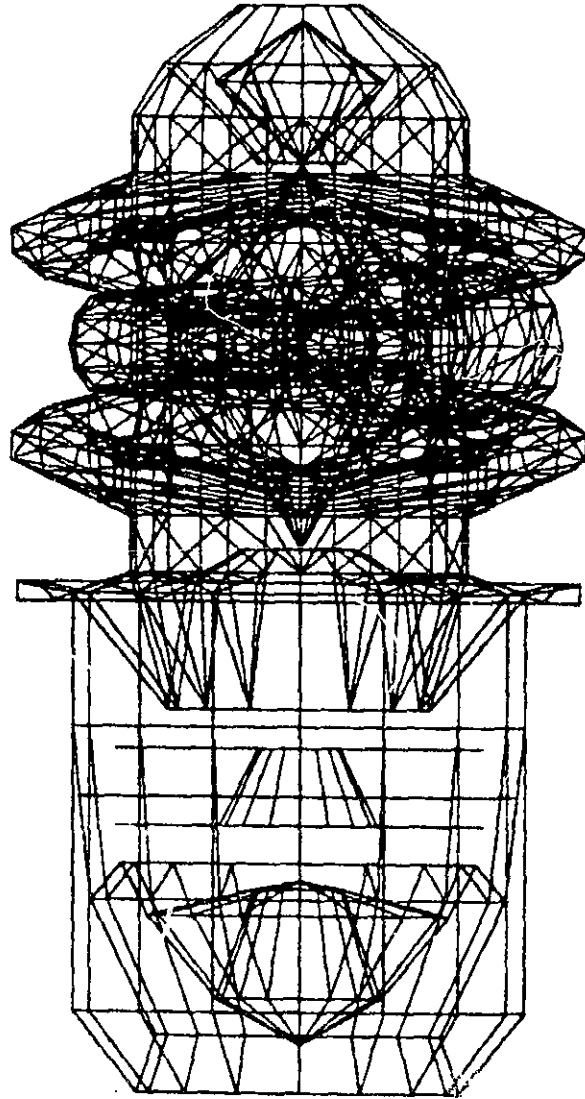


Fig. 19 - HPOTP (View 1)

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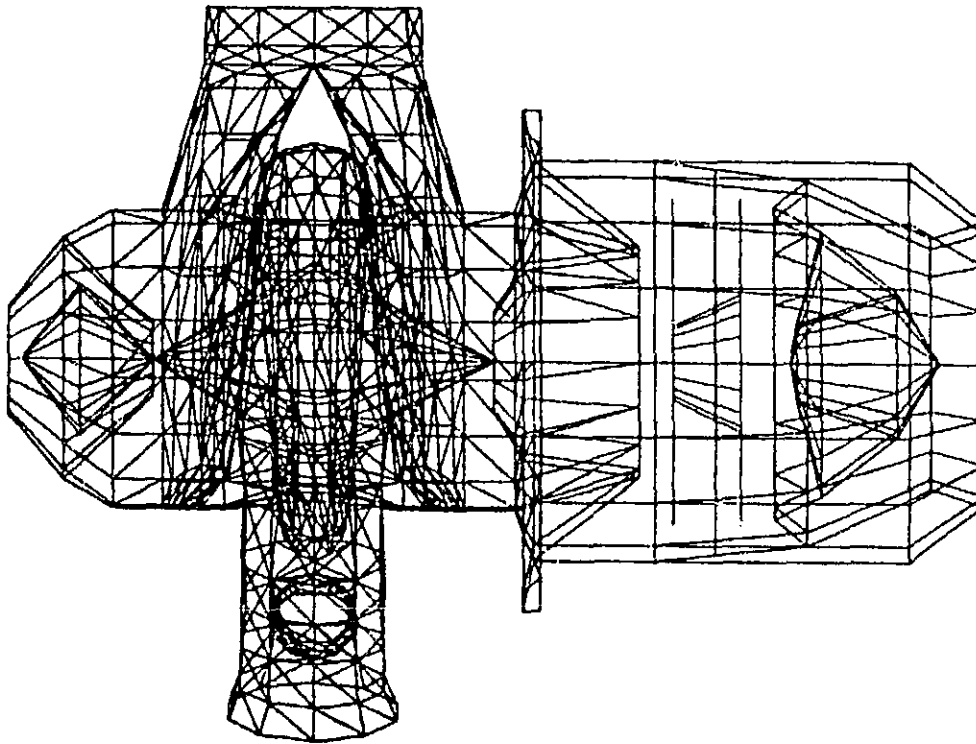


Fig. 20 - HPOTP (View 2)

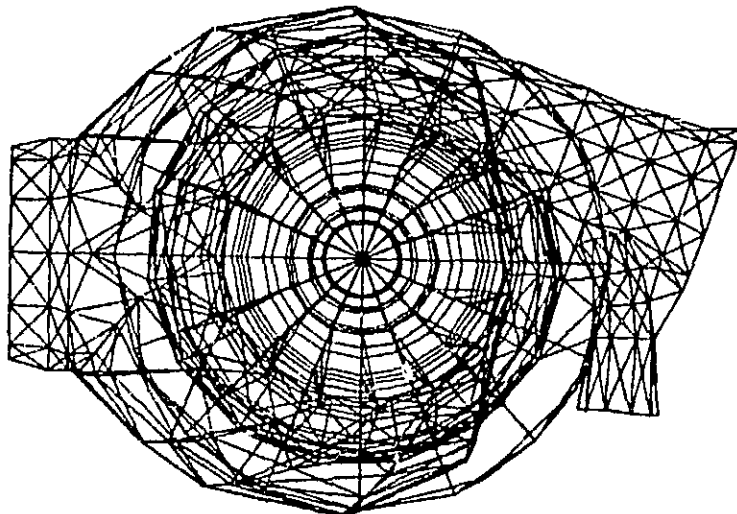


Fig. 21 - HPOTP (View 3)

The HPOTP model, like the other SSME components was intended for dynamic analysis, and thus the weight and balance information is crucial. For this pump, as well as all other components of the SSME math model, the weight and center of gravity was computed using EAL and checked against Ref. 2. These sample calculations are shown in Table 5.

The oxygen pump, like the fuel pump, had boundary joints that were interior to the macro-element. Table 6 lists these points with brief descriptions of their locations. The goal in selecting these points was to try to produce an even mass distribution through the pump, whereby areas with significant mass were placed in the boundary set. In addition, all of the physical boundary joints along the hot gas manifold are included.

3.5 NOZZLE

The finite element model of the SSME Nozzle was basically a modification of a SPAR model built by Larry A. Kiefling and presented at the 1981 AIAA Dynamics Conference (Ref. 3). The basic math model was first stripped of all piping and support brackets, since the modes of the feedlines were not of interest. Next, the nozzle model was subdivided into five (5) disjoint substructures such that each set of boundary joints along the interfaces were indeed physical boundaries. Figure 22 shows a plot of a typical Nozzle macro-element. Figure 23 shows a subassembly of the macroelement into the complete nozzle.

The geometry of the nozzle closely resembles a truncated conic section, and thus allowed the use of EAL data generators for most of the model. The stiffness and inertial properties of the tube sheet were modeled by overlaying quadrilateral plate elements. The hatbands around the circumference of the nozzle stiffened up the structure considerably in the hoop direction, and were included in the model as bar elements. Table 7 shows a breakdown of the number of elements and joints for the complete nozzle assembly represented as five disjoint substructures. Boundary joints are summarized in Table 8.

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Table 5 WEIGHT AND BALANCE CALCULATIONS FOR THE
HPOTP MATH MODEL

* ANALYSIS OF MASS AND INERTIA PROPERTIES *

MASS MATRIX NAME= DEM

TOTAL MASS= .148904+01

MASS CENTER LOCATION (X,Y,Z)= -.299548-01 -.614242-01 .155877+02

INERTIA MATRIX:

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1	.14890+01	-.62548-10	.37636-10	-.14703-08	.46032-06	.49146-07
2	-.21686-09	.14890+01	.33589-10	-.46597-06	.26667-08	.22583-06
3	.25112-10	.68202-11	.14890+01	-.42337-07	-.23242-06	.10787-09
4	-.74478-09	-.46337-06	-.41921-07	.92561+02	-.64411+00	-.27731+00
5	.45681-06	.37434-08	-.22914-06	-.64411+00	.99609+02	-.50776+00
6	.49166-07	.22578-06	-.24663-09	-.27731+00	-.50776+00	.39551+02

WAIT-LAST INPUT IGNORED

TYPE	GROUP	L, VOL OR AREA SUM	STRUCTURAL WEIGHT	NON-STRUCTURAL WEIGHT
E21	1	.580744+02	.178057+02	.000000
E21	2	.196500+02	.184401+02	.000000
E21	ALL	.777244+02	.362458+02	.000000
E43	1	.685034+02	.490634+01	.000000
E43	2	.184876+03	.477745+02	.000000
E43	3	.634794+03	.201819+03	.000000
E43	4	.301224+03	.354221+02	.000000
E43	5	.152506+03	.360692+02	.000000
E43	6	.783962+03	.671685+02	.000000
E43	ALL	.212586+04	.393158+03	.000000
E33	1	.119831+04	.113772+03	.000000
E33	2	.404879+01	.105580+01	.000000
E33	3	.172315+02	.674018+01	.000000
E33	4	.218059+02	.132067+01	.000000
E33	5	.199593+03	.224755+02	.000000
E33	ALL	.144099+04	.145364+03	.000000

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Table 6 HPOTP BOUNDARY JOINTS

2498	*(BN)		
2499	511	\$	PUMP HOUSE I/F FLG QM END
2500	274	\$	PUMP HOUSE I/F FLG PREBURNER END
2501	318	\$	PUMP HOUSE I/F FLG PREBURNER END
2502	362	\$	PUMP HOUSE I/F FLG PREBURNER END
2503	404	\$	PUMP HOUSE I/F FLG PREBURNER END
2504	467	\$	PUMP HOUSE I/F FLG QM END
2505	555	\$	PUMP HOUSE I/F FLG QM END
2506	597	\$	PUMP HOUSE I/F FLG QM END
2507	730,742,4	\$	HOUSING FLANGE
2508	778,789,1	\$	ATTACH FLANGE
2509	854,866,4	\$	TURBINE EXTREME END
2510	918,930,4	\$	TURBINE HOUSING
2511	1033	\$	SHAFT TURBINE END
2512	1034	\$	SHAFT AT BEARING MID
2513	1068	\$	SHAFT AT BEARING PUMP END
2514	*		LNDHPOTP

@PRT,S HPFTP.ALL

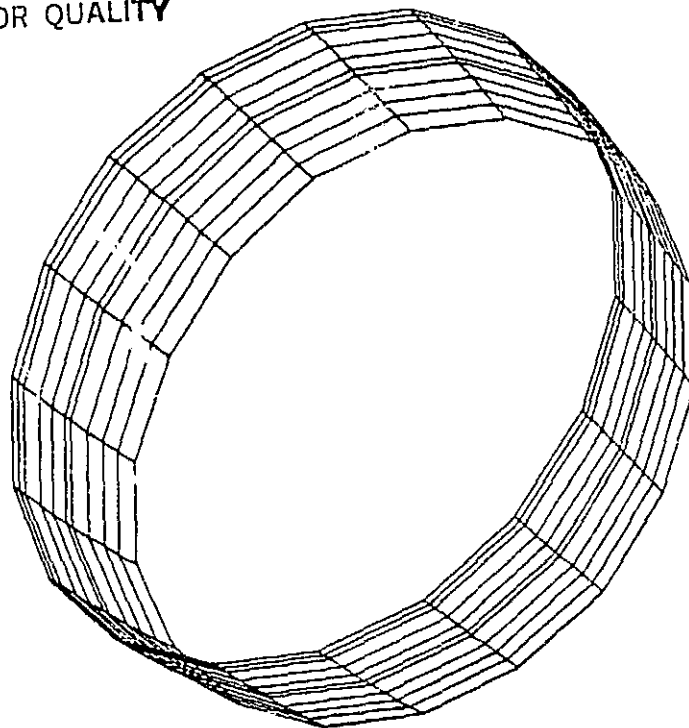


Fig. 22 - Typical Nozzle Macro-Element

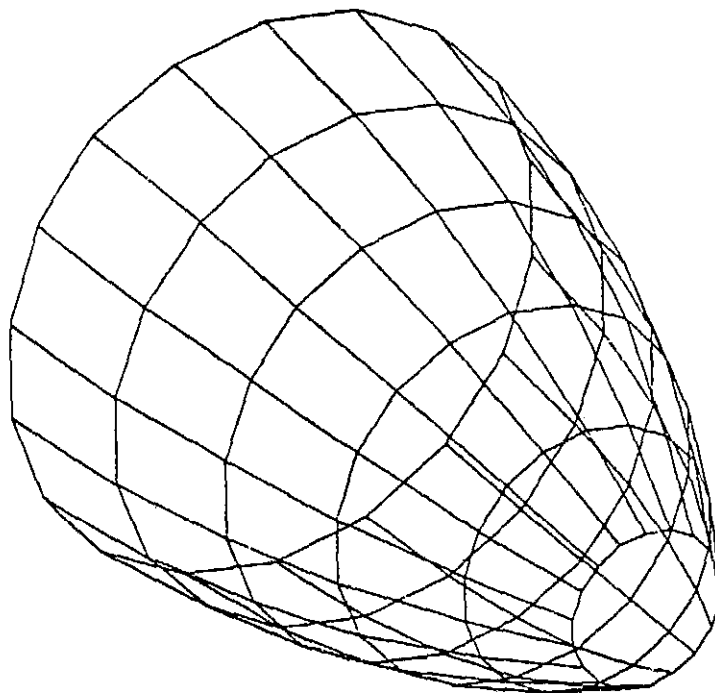


Fig. 23 - Assembly of Nozzle Macro-Elements

Table 7 NOZZLE ELEMENTS AND JOINTS

Macro Element	Number of Joints	Number of Quad Plate Elements	Number of Bar Elements	Concentrated Masses
Nozzle 1	198	234	36	0
Nozzle 2	162	144	36	0
Nozzle 3	162	288	36	0
Nozzle 4	162	288	36	0
Nozzle 5	126	180	36	19

Table 8 NOZZLE BOUNDARY JOINTS

Macro-Element	Boundary Joints	Description
NOZ1	1 through 18	Bottom Row
NOZ1	181 through 198	Top Row
NOZ2	1 through 18	Bottom Row
NOZ2	145 through 162	Top Row
NOZ3	1 through 18	Bottom Row
NOZ3	145 through 162	Top Row
NOZ4	1 through 18	Bottom Row
NOZ4	145 through 162	Top Row
NOZ5	1 through 18	Bottom Row
NOZ5	109 through 126	Top Row (MCC Interface)

The assembly of the NOZ1 through NOZ5 macro-elements to form the complete nozzle is shown in Figs. 24 and 25. The figures are of the boundaries definition and do not show the great detail of the original macro-elements.

The Nozzle assembly was of particular interest for two reasons: First, the shell modes of the Nozzle constitute the lower end of the frequencies for the SSME. Second, test data were available for the nozzle assembly itself which allowed identification and verification of the modes predicted by the finite element model. Extensive back transformation was performed for the nozzle such that these low frequency modes could be studied. Figures 26 through 28 show first bending, first shell, and first torsion modes. Note that bending and shell modes occur in pairs, so that this includes the first five elastic modes.

3.6 SYSTEM MODEL, SSME

The SSME residual structure model was very simple. There were only 193 joints with no finite elements. This was, of course, the goal of the analysis task - to produce detailed models of critical components whose mass and stiffness properties are distributed to a much smaller number of joints for dynamic analysis. With this completed, an eigensolution may be performed for the residual structure and back transformation completed for each component of interest.

Table 9 shows the correlation between joint numbers in the residual structure and boundary joints in each of the macro-elements. Figures 29 and 30 show reduced copies of computer generated plots of the entire SSME structural math model. Typical results of the eigensolution for the residual structure are presented in Appendix C.

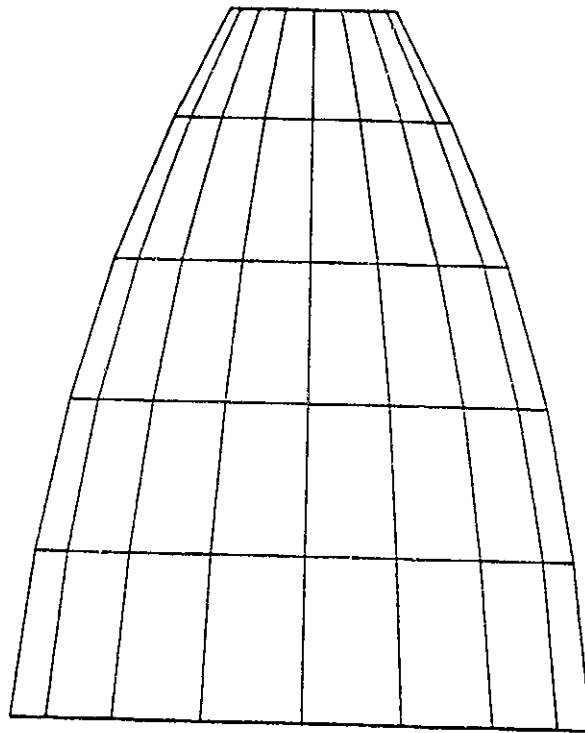


Fig. 24 - Nozzle Macro-Element Assembly (Side View)

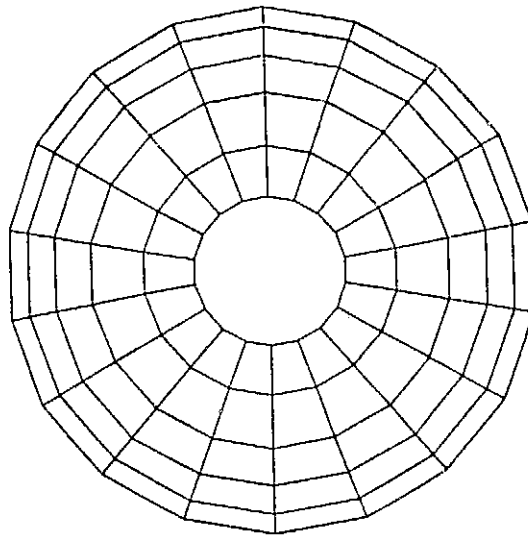


Fig. 25 - Nozzle Macro-Element Assembly (Plan View)

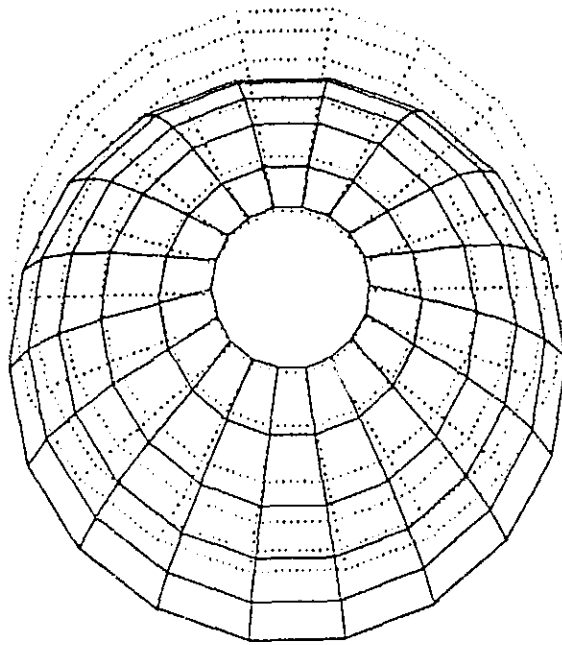


Fig. 26 - Nozzle (First Bending Mode)

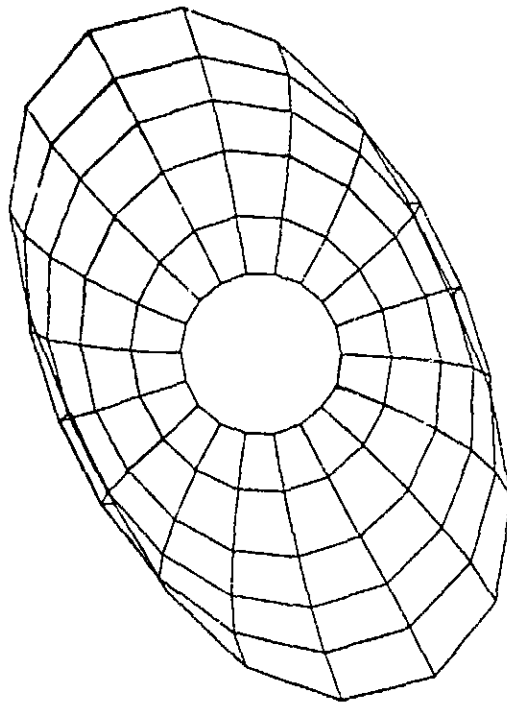


Fig. 27 - Nozzle (First Shell Mode)

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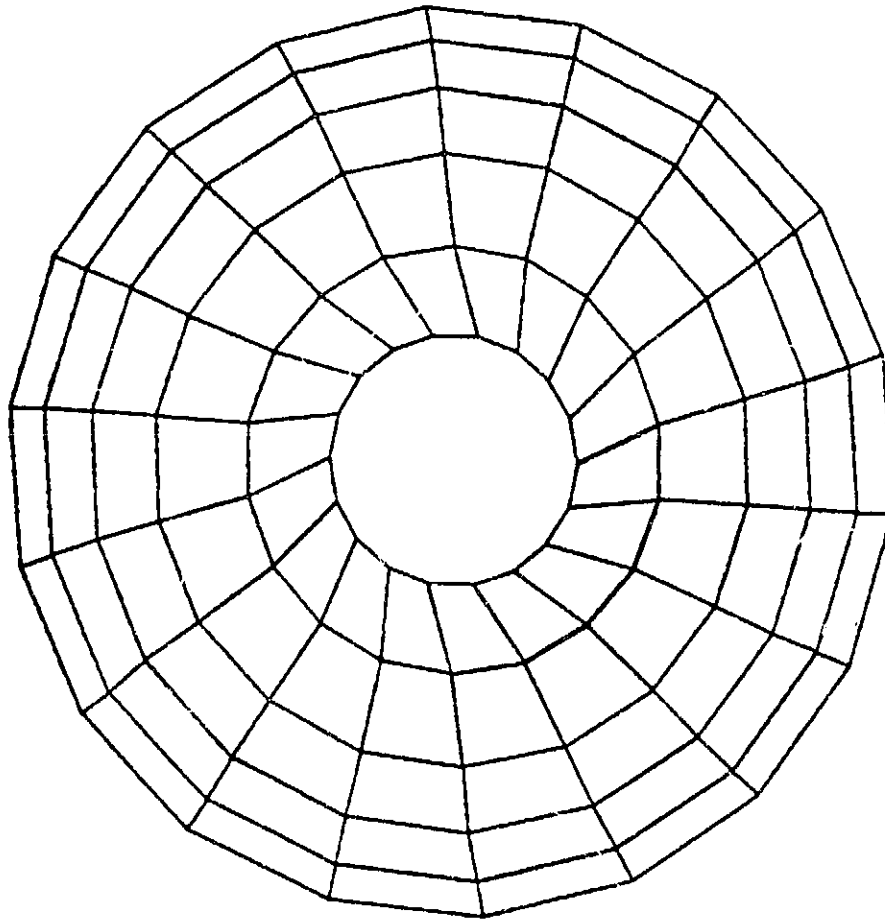


Fig. 28 - Nozzle (First Torsion Mode)

Table 9 SYSTEM JOINT CORRELATION, SSME STRUCTURAL MATH MODEL

System Joint	HGM Joint	MCC Joint	HPFTP Joint	HPOTP Joint	Remarks
1	1	343			HGM to MCC Interface
2	2	344			
3	3	345			
4	4	346			
5	5	347			
6	6	348			
7	7	349			
8	992	350			
9	991	351			
10	990	352			
11	989	353			
12	988	354			
13	229		350		HGM to HPFTP Interface
14	230		351		
15	231		352		
16	232		353		
17	233		354		
18	234		355		
19	235		356		
20	1175		357		
21	1174		358		
22	1173		359		
23	1172		360		
24	1171		361		
25	469			781	HGM to HPFTP Interface
26	470			782	
27	471			783	
28	472			784	
29	473			785	
30	474			786	
31	475			787	
32	1371			788	
33	1370			789	
34	1369			778	
35	1368			779	
36	1367			780	
37	228				Gimbal

Table 9 (Continued)

System Joint	MCC Joint	NOZ5 Joint	NOZ4 Joint	Remarks
38	355	109		Nozzle to MCC Interface
39	356	110		
40	357	111		
41	358	112		
42	359	113		
43	360	114		
44	361	115		
45	362	116		
46	363	117		
47	364	118		
48	365	119		
49	366	120		
50	367	121		
51	368	122		
52	369	123		
53	370	124		
54	371	125		
55	372	126		
56		1	145	Nozzle Segment Interface
57		2	146	
58		3	147	
59		4	148	
60		5	149	
61		6	150	
62		7	151	
63		8	152	
64		9	153	
65		10	154	
66		11	155	
67		12	156	
68		13	157	
69		14	158	
70		15	159	
71		16	160	
72		17	161	
73		18	162	

(Continued)

Table 9 (Continued)

System Joint	NOZ4 Joint	NOZ3 Joint	NOZ2 Joint	Remarks
74	1	145		Nozzle Segment Interface
75	2	146		
76	3	147		
77	4	148		
78	5	149		
79	6	150		
80	7	151		
81	8	152		
82	9	153		
83	10	154		
84	11	155		
85	12	156		
86	13	157		
87	14	158		
88	15	159		
89	16	160		
90	17	161		
91	18	162		
92		1	145	Nozzle Segment Interface
93		2	146	
94		3	147	
95		4	148	
96		5	149	
97		6	150	
98		7	151	
99		8	152	
100		9	153	
101		10	154	
102		11	155	
103		12	156	
104		13	157	
105		14	158	
106		15	159	
107		16	160	
108		17	161	
109		18	162	

(Continued)

Table 9 (Continued)

System Joint	NOZ2 Joint	NOZ1 Joint	Remarks
110	1	145	Nozzle Segment Interface
111	2	146	
112	3	147	
113	4	148	
114	5	149	
115	6	150	
116	7	151	
117	8	152	
118	9	153	
119	10	154	
120	11	155	
121	12	156	
122	13	157	
123	14	158	
124	15	159	
125	16	160	
126	17	161	
127	18	162	
128		1	Nozzle Aft Face
129		2	
130		3	
131		4	
132		5	
133		6	
134		7	
135		8	
136		9	
137		10	
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145		18	

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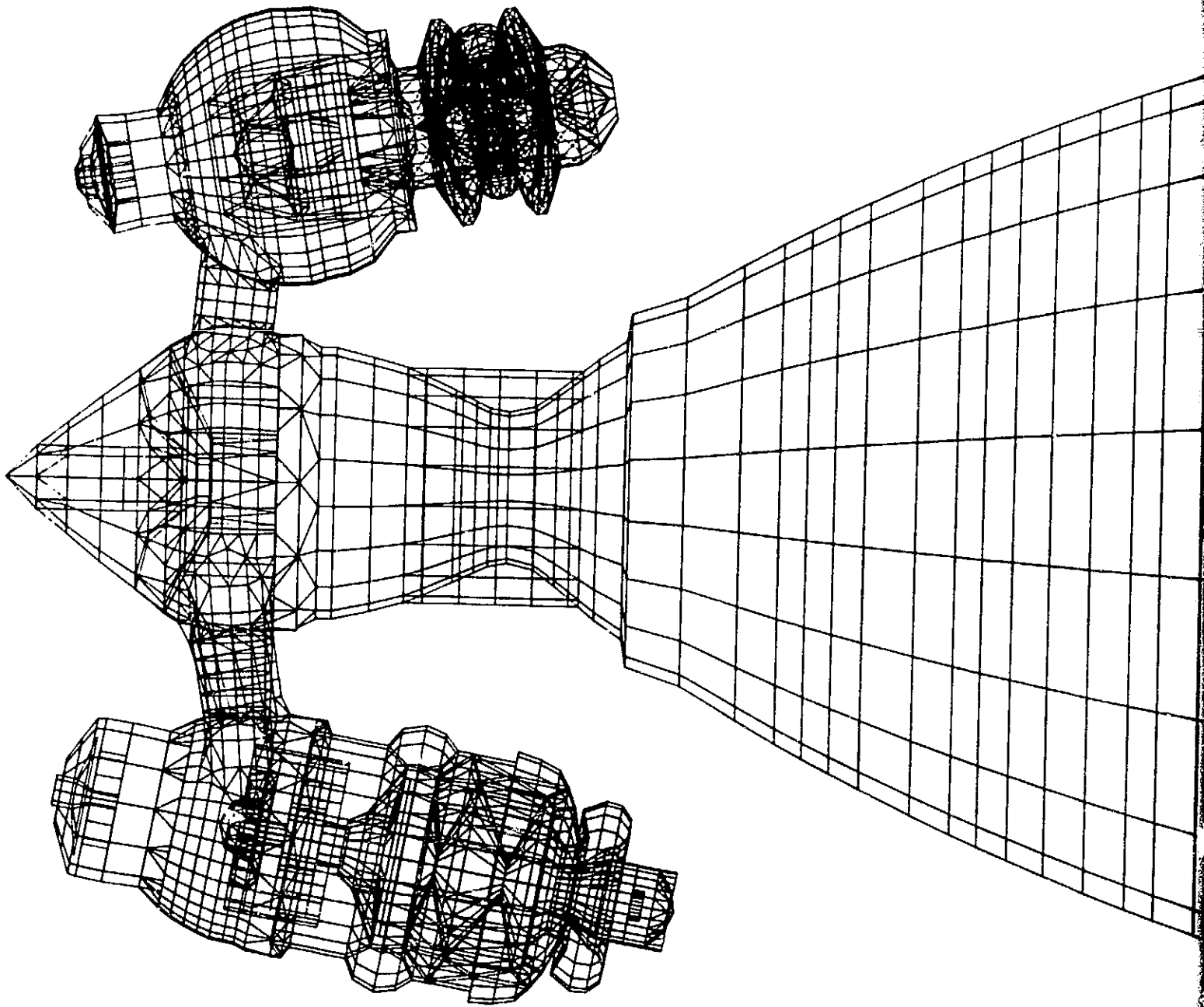
Table 9 (Continued)

System Joint	HPFTP Joint	HPOTP Joint	Remarks
146 147 148 149	158 164 170 176		HPFTP Forward Case
150 151 152 153 154 155 156 157 158	698 704 710 716 1454 1456 1457 1483 1533		HPFTP Intermediate Case HPFTP Aft End, Aft Bearing, Intermediate Bearing, Intermediate Rotor, Rotor Edge
159 160 161 162 163 164 165 166 167 168 169 170	1618 1619 1620 1621 1622 1623 1624 1625 1626 1627 1628 1629		HPFTP Forward Bearing Area
171 172 173 174 175 176 177 178 179 180 181 182		511 274 318 362 404 467 555 597 730 734 738 742	HPOTP Pump Housing Flange, Aft HPOTP Pump Housing Flange, Fwd HPOTP Pump Housing Flange, Fwd HPOTP Pump Housing Flange, Fwd HPOTP Pump Housing Flange, Fwd HPOTP Pump Housing Flange, Aft HPOTP Pump Housing Flange, Aft HPOTP Pump Housing Flange, Aft HPOTP Housing Flange HPOTP Housing Flange HPOTP Housing Flange HPOTP Housing Flange

Table 9 (Concluded)

System Joint	HPFTP Joint	HPOTP Joint	Remarks
183 184 185 186		854 858 862 866	HPOTP Turbine, Extreme End
187 188 189 190		918 922 926 930	HPOTP Turbine Housing
191 192 193		1033 1034 1068	HPOTP Shaft, Turbine End HPOTP Shaft, Mid Bearing HPOTP Shaft, Pump Bearing

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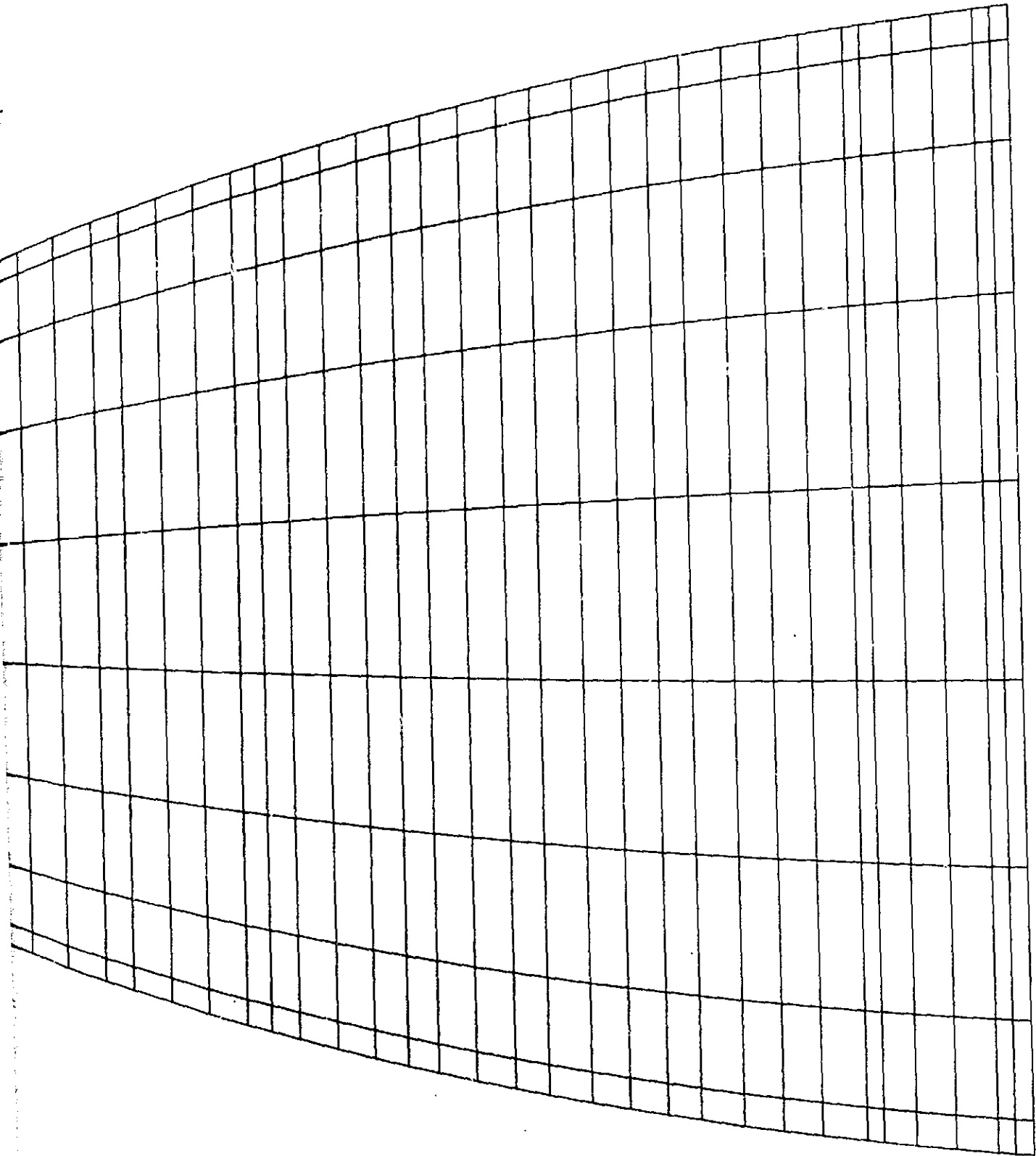
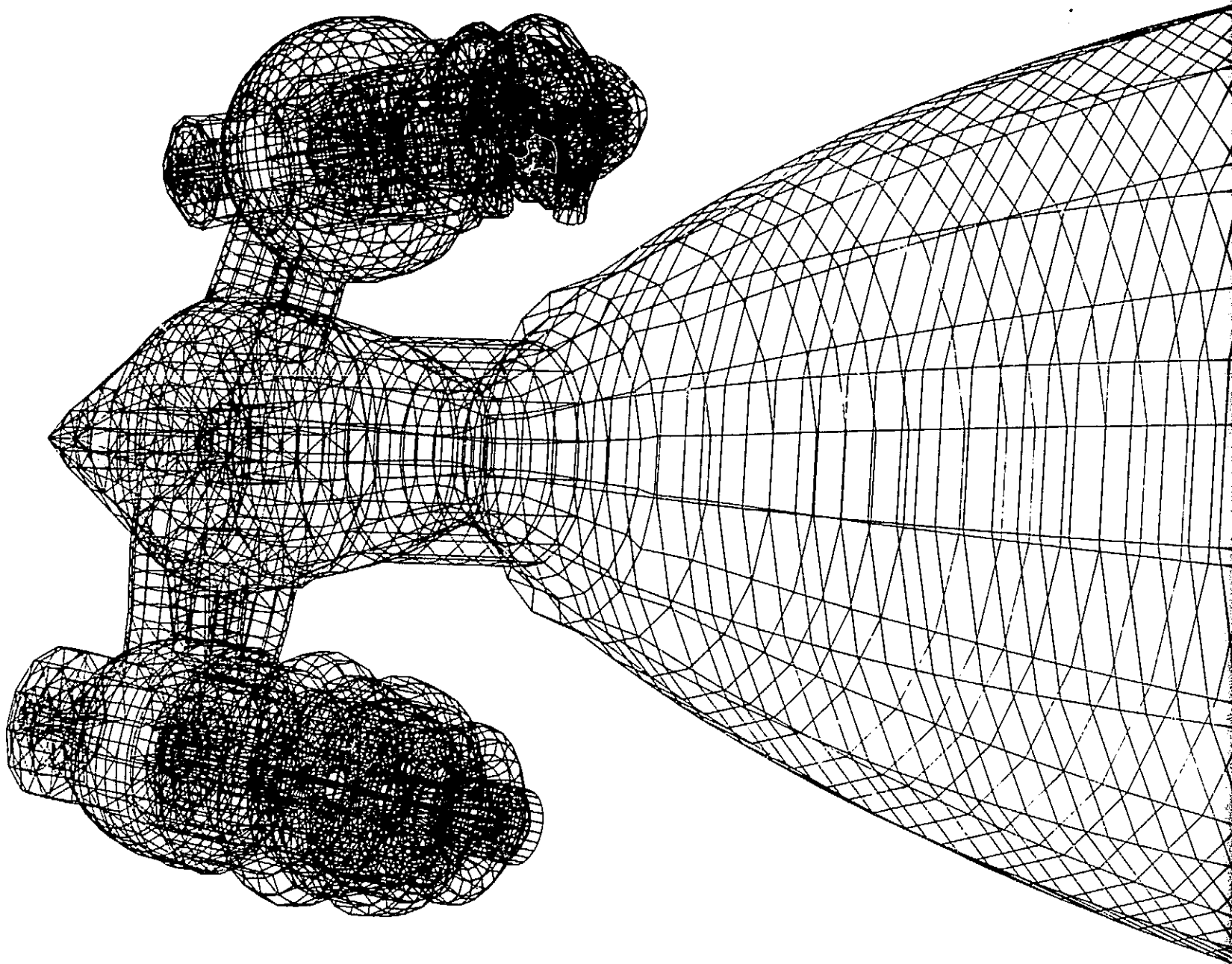


Fig. 2 SSME Structural Mesh Model. (Side View)

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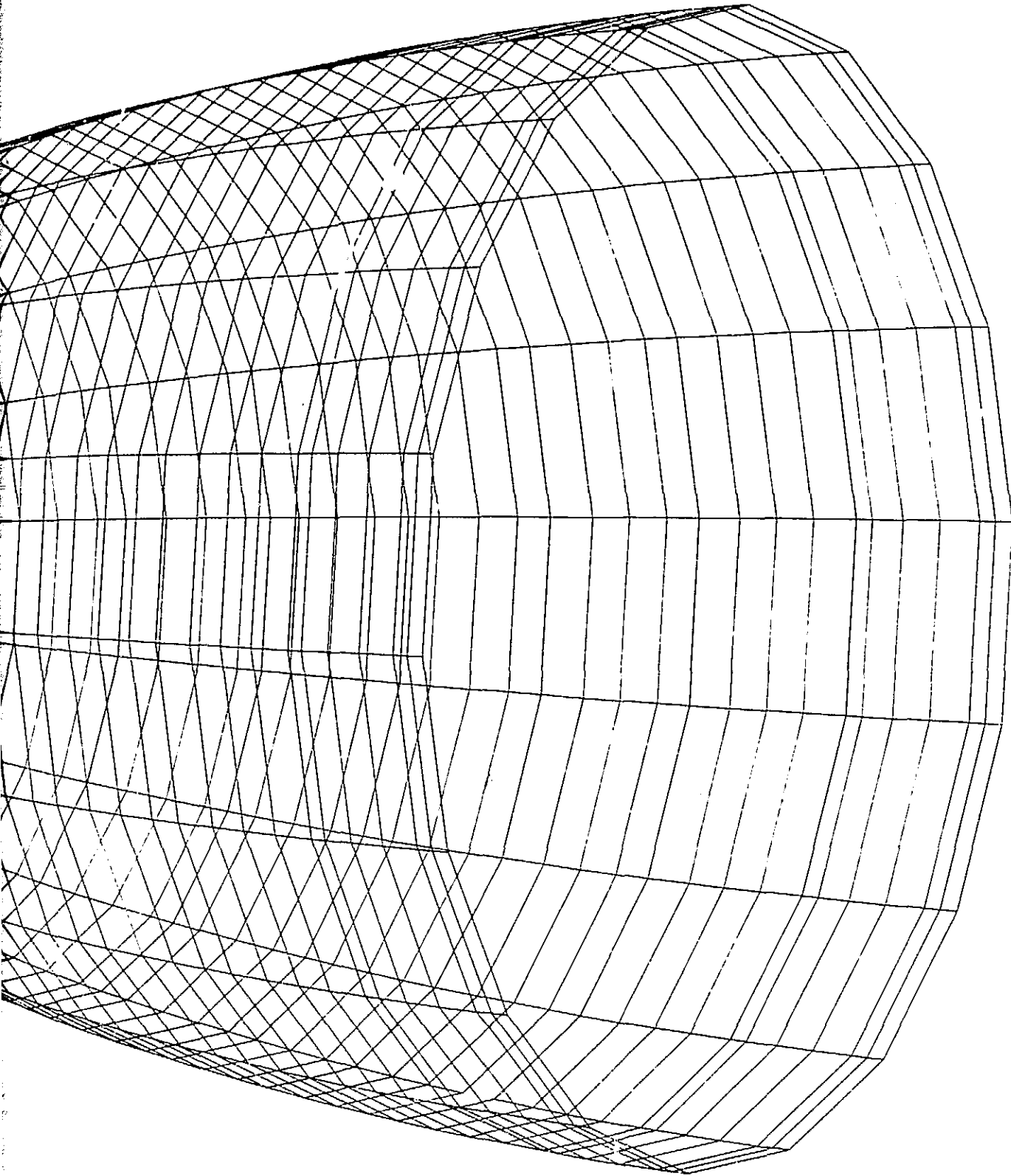


Fig. 30 SSME Structural Math Model (Perspective View)

4. CONCLUSIONS AND RECOMMENDATIONS

This work has produced a dynamic mathematical model of the Space Shuttle Main Engine (SSME). The model has been checked so far as possible at this time.

Lockheed recommends that, as further experimental data become available, this model be maintained and modified to reflect this added knowledge of the SSME. Further, the existent macro-elements of this model may be used as components of future studies focusing on even greater detail in a selected component.

This model represents a significant step in dynamic modeling of the SSME, and is expected to make new and innovative analyses possible.

5. REFERENCES

1. Whetstone, W. D., "EISI-EAI Reference Manual," Engineering Information Systems Inc., San Jose, Calif., July 1983.
2. Space Transportation Systems Technical Manual, RSS-8559-1-1-1, Rocketdyne Division, Rockwell International Corporation, April 1982.
3. Kiefling, Larry A., "Space Shuttle Main Engine Nozzle - Steerhorn Dynamics," AIAA-81-0505-CP, April 1981.

Appendix A
EAL-SPAR APPLICATIONS EXPERIENCE

The application of the EAL-macro-element procedure proved to be a most challenging experience. First it should be mentioned that although several members of the Lockheed-Huntsville Structures Group had many years of experience with SPAR, none had used EAL. Second, the engineers assigned to the present analysis task had never used SPAR or EAL before this effort, much less the macro-element procedures. For these reasons numerous mistakes were made along the way, but considerable experience was gained with the code and application to a large structure.

Basically, the driver routines for the macro-element assembly and reduction operations are collections of the older substructure procedures. This procedure collection was resident on an EAL library known internally to the code as EAL028. One of the first problems identified with the procedure library was the fact that once a parameter was set up front (for example, the central memory requirement) this value was held for all subsequent matrix operations. This proved to be a problem, since some modules such as T.N and DRSI needed large core while the processor E will not run with large core. This problem was overcome by including internal looping capability in the driver routines for substructure operations.

There are two major deficiencies that exist in the macro-element procedure that if corrected would make the code much more useful. First, there exists no internal restart logic for macro-elements. Consider the case encountered several times where a large weekend computer run was submitted for execution only to "error off" for lack of time upon, say 95 percent completion. In this case, an internal restart logic to check which matrix modules had been completed and execute only those still required for

a given component would have been helpful. Instead, it was necessary to manually re-execute certain matrix operations while storing and retrieving data sets out of perhaps as many as a half dozen different internal EAL libraries. The second major deficiency that was discovered and discussed with Dr. Jones at EISI is that no plotting capability exists for upstream macro-elements. At first this did not appear to be a serious deficiency, since each major substructure could not be plotted independently. The concern began during assembly of major components into the residual structure. There was concern that a component may be attached incorrectly, and since EAL simply places a mathematical "rigid link" between boundary and residual structure node pairs, no way existed of determining whether an error had been introduced during the dozens of coordinate system transformations.

No real "fix" was found for either of the two major deficiencies noted above. On small components where computer run time was not significant, lack of automated restart meant that the component was simply resubmitted for complete reanalysis. On large substructures such as the Hot Gas Manifold and the pumps, resubmitting the entire component meant as much as a week or two-week wait for an extended period of dedicated computer use. For this reason, manual execution of some of the procedures was required on the large models.

For the problem of producing plots of complete assemblies of macro-elements, a small FORTRAN program was developed to run on the NASA-MSFC Univac 1180 that interfaced directly with the EAL processors AUS and DCU. The subprocessors in AUS were used to produce a table of joint locations by transforming each node back to the basic coordinate system of the gimbal. DCU was used to print this table which was read by the FORTRAN program and converted to joint locations for input. These calculations were identical to those in the macro-element coordinate system transformation routines. AUS/TABLE was used to dump element connectivity data that were

subsequently read by the FORTRAN program to produce element definition for the entire SSME. Several large plots of the complete engine model were produced. Reduced copies are included in this report.

The totals for the complete SSME EAL dynamics model are large. The number of joints is 5076, with 5282 quadrilateral plate elements, 2833 triangular plate elements and 267 bar elements. Obviously, a "frontal assault" on a finite element model with 8382 elements and over 34,000 degrees of freedom would be pointless on anything except perhaps a modern supercomputer, and then the time required to extract eigenvalues would be great. This fact alone should prove the usefulness of the macro-element method when dealing with a large, complicated structure such as the SSME.

Appendix B
INPUT DATA LISTING FOR EAL-SPAR SSME DYNAMIC MODEL

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11	6	1	-45.	2	193.66528	3	0.	-15.775	-5.4963	-5.4963
12	7	1	-50.31	2	184.8567	3	0.	-15.775	5.612	-5.612
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136	120	-.103405*02	.182331*01	.303300*01
137	121	-.105000*02	.333758-06	.303300*01
138	122	.988000*01	.000000	.407940*01
139	123	.972990*01	.171564*01	.407940*01
140	124	.928416*01	.337916*01	.407940*01
141	125	.855633*01	.494000*01	.407940*01
142	126	.756852*01	.635074*01	.407940*01
143	127	.635074*01	.756852*01	.407940*01
144	128	.494000*01	.855633*01	.407940*01
145	129	.337916*01	.928416*01	.407940*01
146	130	.171564*01	.972990*01	.407940*01
147	131	.157025-06	.988000*01	.407940*01
148	132	-.171564*01	.972990*01	.407940*01
149	133	-.337916*01	.928416*01	.407940*01
150	134	-.494000*01	.855633*01	.407940*01
151	135	-.635074*01	.756852*01	.407940*01
152	136	-.756852*01	.635074*01	.407940*01
153	137	-.855633*01	.494000*01	.407940*01
154	138	-.928416*01	.337916*01	.407940*01
155	139	-.972990*01	.171564*01	.407940*01
156	140	-.988000*01	.314051-06	.407940*01
157	141	.811000*01	.000000	.616000*01
158	142	.702347*01	.405500*01	.616000*01
159	143	.405500*01	.702347*01	.616000*01
160	144	.128894-06	.811000*01	.616000*01
161	145	-.405500*01	.702347*01	.616000*01
162	146	-.702347*01	.405500*01	.616000*01
163	147	-.811000*01	.257789-06	.616000*01
164	148	.610000*01	.000000	.878000*01
165	149	.528276*01	.305000*01	.878000*01
166	150	.305000*01	.528275*01	.878000*01
167	151	.969489-07	.610000*01	.878000*01
168	152	-.305000*01	.528276*01	.878000*01
169	153	-.528275*01	.305000*01	.878000*01
170	154	-.610000*01	.193898-06	.878000*01

ORIGINAL PAGE IS
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171	155	.410000+01	.000000	.112500+02
172	156	.355070+01	.205000+01	.112500+02
173	157	.205000+01	.355070+01	.112500+02
174	158	.651623-07	.410000+01	.112500+02
175	159	.205000+01	.355070+01	.112500+02
176	160	-.355070+01	.205000+01	.112500+02
177	161	-.410000+01	.130325-06	.112500+02
178	162	.234000+01	.000000	.135300+02
179	163	.165463+01	.165463+01	.135300+02
180	164	.371902-07	.234000+01	.135300+02
181	165	-.165463+01	.165463+01	.135300+02
182	166	-.234000+01	.743804-07	.135300+02
183	167	.470000+01	.000000	.535000+01
184	168	.407032+01	.235000+01	.535000+01
185	169	.235000+01	.407032+01	.535000+01
186	170	.746983-07	.470000+01	.535000+01
187	171	-.235000+01	.407032+01	.535000+01
188	172	-.407032+01	.235000+01	.535000+01
189	173	-.470000+01	.149397-06	.535000+01
190	174	.234000+01	.000000	.303000+01
191	175	.165463+01	.165463+01	.303000+01
192	176	.371902-07	.234000+01	.303000+01
193	177	-.165463+01	.165463+01	.303000+01
194	178	-.234000+01	.743804-07	.303000+01
195	179	.000000	.000000	.303000+01
196	180	.700000+01	.000000	.270000+01
197	181	.606218+01	.350000+01	.270000+01
198	182	.350000+01	.606218+01	.270000+01
199	183	.111253-06	.700000+01	.270000+01
200	184	-.350000+01	.606218+01	.270000+01
201	185	-.606218+01	.350000+01	.270000+01
202	186	-.700000+01	.222506-06	.270000+01
203	187	.315000+01	.000000	.870000+00
204	188	.272798+01	.157500+01	.870000+00
205	189	.157500+01	.272798+01	.870000+00
206	190	.500638-07	.315000+01	.870000+00
207	191	-.157500+01	.272798+01	.870000+00
208	192	-.272798+01	.157500+01	.870000+00
209	193	-.315000+01	.100128-06	.870000+00
210	194	.164000+01	.000000	.870000+00
211	195	.115966+01	.115966+01	.870000+00
212	196	.260649-07	.164000+01	.870000+00
213	197	-.115966+01	.115966+01	.870000+00
214	198	-.164000+01	.521299-07	.870000+00
215	199	.700000+01	.000000	-.407000+01
216	200	.606218+01	.350000+01	-.407000+01
217	201	.350000+01	.606218+01	-.407000+01
218	202	.111253-06	.700000+01	-.407000+01
219	203	-.350000+01	.606218+01	-.407000+01
220	204	-.606218+01	.350000+01	-.407000+01
221	205	-.700000+01	.222506-06	-.407000+01
222	206	.315000+01	.000000	-.407000+01
223	207	.222739+01	.222739+01	-.407000+01
224	208	.500638-07	.315000+01	-.407000+01
225	209	-.222739+01	.222739+01	-.407000+01
226	210	-.315000+01	.100128-06	-.407000+01
227	211	.000000	.000000	-.407000+01

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228	212	.000000	.000000	.135500+02s
229	213	.234000+01	.000000	.112500+02s
230	214	.165463+01	.165463+01	.112500+02s
231	215	.371902-07	.234000+01	.112500+02s
232	216	.165463+01	.165463+01	.112500+02s
233	217	-.234000+01	.743804-07	.112500+02s
234	218	.234000+01	.000000	.715000+01s
235	219	.165463+01	.165463+01	.715000+01s
236	220	.371902-07	.234000+01	.715000+01s
237	221	-.165463+01	.165463+01	.715000+01s
238	222	-.234000+01	.743804-07	.715000+01s
239	223	.164000+01	.000000	.195000+01s
240	224	.115966+01	.115966+01	.195000+01s
241	225	.260649-07	.164000+01	.195000+01s
242	226	-.115966+01	.115966+01	.195000+01s
243	227	-.164000+01	.521299-07	.195000+01s
244	228	.000000	.000000	.157750+02s
245	NREF = 3			
246	229	.885000+01	.000000	-.374000+01s
247	230	.766432+01	.442500+01	-.374000+01s
248	231	.442500+01	.766432+01	-.374000+01s
249	232	.140655-06	.885000+01	-.374000+01s
250	233	-.442500+01	.766432+01	-.374000+01s
251	234	-.766432+01	.442500+01	-.374000+01s
252	235	-.885000+01	.281311-06	-.374000+01s
253	236	.885000+01	.000000	-.174000+01s
254	237	.871555+01	.153679+01	-.174000+01s
255	238	.831628+01	.302688+01	-.174000+01s
256	239	.766432+01	.442500+01	-.174000+01s
257	240	.677949+01	.568867+01	-.174000+01s
258	241	.568867+01	.677949+01	-.174000+01s
259	242	.442500+01	.766432+01	-.174000+01s
260	243	.302688+01	.831628+01	-.174000+01s
261	244	.153679+01	.871555+01	-.174000+01s
262	245	.140655-06	.885000+01	-.174000+01s
263	246	-.153679+01	.871555+01	-.174000+01s
264	247	-.302688+01	.831628+01	-.174000+01s
265	248	-.442500+01	.766432+01	-.174000+01s
266	249	-.568867+01	.677949+01	-.174000+01s
267	250	-.677949+01	.568867+01	-.174000+01s
268	251	-.766432+01	.442500+01	-.174000+01s
269	252	-.831628+01	.302688+01	-.174000+01s
270	253	-.871555+01	.153679+01	-.174000+01s
271	254	-.885000+01	.281311-06	-.174000+01s
272	255	.859500+01	.000000	-.870000+00s
273	256	.846442+01	.149251+01	-.870000+00s
274	257	.807666+01	.293966+01	-.870000+00s
275	258	.744349+01	.429750+01	-.870000+00s
276	259	.658415+01	.552476+01	-.870000+00s
277	260	.552476+01	.658415+01	-.870000+00s
278	261	.429750+01	.744349+01	-.870000+00s
279	262	.293966+01	.807666+01	-.870000+00s
280	263	.149251+01	.846442+01	-.870000+00s
281	264	.136603-06	.859500+01	-.870000+00s
282	265	-.149251+01	.846442+01	-.870000+00s
283	266	-.293966+01	.807666+01	-.870000+00s
284	267	-.461883+01	.727811+01	-.100000+01s

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285	268	-.604955+01	.615606+01	-.103000+01\$
286	269	-.658415+01	.552476+01	-.870000+00\$
287	270	-.744349+01	.429750+01	-.870000+00\$
288	271	-.807666+01	.293966+01	-.870000+00\$
289	272	-.852341+01	.110700+01	-.870000+00\$
290	273	.859500+01	.000000	.000000 \$
291	274	.846442+01	.149251+01	.000000 \$
292	275	.807666+01	.293966+01	.000000 \$
293	276	.744349+01	.429750+01	.000000 \$
294	277	.658415+01	.552476+01	.000000 \$
295	278	.552476+01	.658415+01	.000000 \$
296	279	.429750+01	.744349+01	.000000 \$
297	280	.293966+01	.807666+01	.000000 \$
298	281	.149251+01	.846442+01	.000000 \$
299	282	.136603-06	.859500+01	.000000 \$
300	283	-.149251+01	.846442+01	.000000 \$
301	284	-.283369+01	.811445+01	-.440000+00\$
302	285	-.699732+01	.499114+01	-.440000+00\$
303	286	-.744349+01	.429750+01	.000000 \$
304	287	-.807666+01	.293966+01	.000000 \$
305	288	-.830213+01	.222455+01	.000000 \$
306	289	.857000+01	.000000	.102500+01\$
307	290	.843980+01	.148816+01	.102500+01\$
308	291	.805317+01	.293111+01	.102500+01\$
309	292	.742184+01	.428500+01	.102500+01\$
310	293	.656500+01	.550869+01	.102500+01\$
311	294	.550869+01	.656500+01	.102500+01\$
312	295	.428500+01	.742184+01	.102500+01\$
313	296	.293111+01	.805317+01	.102500+01\$
314	297	.148816+01	.843980+01	.102500+01\$
315	298	.136205-06	.857000+01	.102500+01\$
316	299	-.148816+01	.843980+01	.102500+01\$
317	300	-.219172+01	.829534+01	.620000+00\$
318	301	-.751149+01	.414656+01	.660000+00\$
319	302	-.805317+01	.293111+01	.102500+01\$
320	303	-.811165+01	.257317+01	.126000+01\$
321	304	.833000+01	.000000	.205000+01\$
322	305	.820345+01	.144649+01	.205000+01\$
323	306	.782764+01	.284903+01	.205000+01\$
324	307	.721399+01	.416500+01	.205000+01\$
325	308	.638115+01	.535442+01	.205000+01\$
326	309	.535442+01	.638115+01	.205000+01\$
327	310	.416500+01	.721399+01	.205000+01\$
328	311	.284903+01	.782764+01	.205000+01\$
329	312	.144649+01	.820345+01	.205000+01\$
330	313	.132391-06	.833000+01	.205000+01\$
331	314	-.144649+01	.820345+01	.205000+01\$
332	315	-.232958+01	.801845+01	.196000+01\$
333	316	-.745772+01	.379990+01	.188600+01\$
334	317	-.782764+01	.284903+01	.205000+01\$
335	318	-.786326+01	.221767+01	.256250+01\$
336	319	.801000+01	.000000	.307500+01\$
337	320	.788831+01	.139092+01	.307500+01\$
338	321	.752694+01	.273958+01	.307500+01\$
339	322	.693686+01	.400500+01	.307500+01\$
340	323	.613602+01	.514873+01	.307500+01\$
341	324	.514873+01	.613602+01	.307500+01\$

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342	325	.400500+01	.693686+01	.307500+01
343	326	.273958+01	.752694+01	.307500+01
344	327	.139092+01	.788831+01	.307500+01
345	328	.127305-06	.801000+01	.307500+01
346	329	.139092+01	.788831+01	.307500+01
347	330	.273958+01	.752694+01	.307500+01
348	331	.349952+01	.717507+01	.314100+01
349	332	.479336+01	.602608+01	.386800+01
350	333	.601900+01	.487409+01	.373600+01
351	334	.694552+01	.401000+01	.304200+01
352	335	.752694+01	.273958+01	.307500+01
353	336	.774192+01	.108806+01	.355000+01
354	337	.760000+01	.000000	.410000+01
355	338	.748454+01	.131973+01	.410000+01
356	339	.714166+01	.259935+01	.410000+01
357	340	.658179+01	.380000+01	.410000+01
358	341	.582194+01	.488519+01	.410000+01
359	342	.488519+01	.582194+01	.410000+01
360	343	.380000+01	.658179+01	.410000+01
361	344	.259935+01	.714166+01	.410000+01
362	345	.131973+01	.748454+01	.410000+01
363	346	.120789-06	.760000+01	.410000+01
364	347	.131973+01	.748454+01	.410000+01
365	348	.259935+01	.714166+01	.410000+01
366	349	.380000+01	.658179+01	.410000+01
367	350	.488519+01	.582194+01	.410000+01
368	351	.582194+01	.488519+01	.410000+01
369	352	.658179+01	.380000+01	.410000+01
370	353	.714166+01	.259935+01	.410000+01
371	354	.748454+01	.131973+01	.410000+01
372	355	.760000+01	.241577-06	.410000+01
373	356	.705000+01	.000000	.508000+01
374	357	.694289+01	.122422+01	.508000+01
375	358	.662483+01	.241124+01	.508000+01
376	359	.610548+01	.352500+01	.508000+01
377	360	.540061+01	.453165+01	.508000+01
378	361	.453165+01	.540061+01	.508000+01
379	362	.352500+01	.610548+01	.508000+01
380	363	.241124+01	.662483+01	.508000+01
381	364	.122422+01	.694289+01	.508000+01
382	365	.112047-06	.705000+01	.508000+01
383	366	.122422+01	.694289+01	.508000+01
384	367	.241124+01	.662483+01	.508000+01
385	368	.352500+01	.610548+01	.508000+01
386	369	.453165+01	.540061+01	.508000+01
387	370	.540061+01	.453165+01	.508000+01
388	371	.610548+01	.352500+01	.508000+01
389	372	.662483+01	.241124+01	.508000+01
390	373	.694289+01	.122422+01	.508000+01
391	374	.705000+01	.224095-06	.508000+01
392	375	.584000+01	.000000	.508000+01
393	376	.505759+01	.292000+01	.508000+01
394	377	.292000+01	.505759+01	.508000+01
395	378	.928166-07	.584000+01	.508000+01
396	379	.292000+01	.505759+01	.508000+01
397	380	.505759+01	.292000+01	.508000+01
398	381	.584000+01	.185633-06	.508000+01

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399	382	.584000+01	.000000	.670000+01
400	383	.505759+01	.292000+01	.670000+01
401	384	.292000+01	.505759+01	.670000+01
402	385	.928166-07	.584000+01	.670000+01
403	386	-.292000+01	.505759+01	.670000+01
404	387	-.505759+01	.292000+01	.670000+01
405	388	-.584000+01	.185633-06	.670000+01
406	389	.595000+01	.000000	.942000+01
407	390	.515285+01	.297500+01	.942000+01
408	391	.297500+01	.515285+01	.942000+01
409	392	.945649-07	.595000+01	.942000+01
410	393	-.297500+01	.515285+01	.942000+01
411	394	-.515285+01	.297500+01	.942000+01
412	395	-.595000+01	.189130-06	.942000+01
413	396	.595000+01	.000000	.113500+02
414	397	.515285+01	.297500+01	.113500+02
415	398	.297500+01	.515285+01	.113500+02
416	399	.945649-07	.595000+01	.113500+02
417	400	-.297500+01	.515285+01	.113500+02
418	401	-.515285+01	.297500+01	.113500+02
419	402	-.595000+01	.189130-06	.113500+02
420	403	.584000+01	.000000	.119600+02
421	404	.505759+01	.292000+01	.119600+02
422	405	.292000+01	.505759+01	.119600+02
423	406	.928166-07	.584000+01	.119600+02
424	407	-.292000+01	.505759+01	.119600+02
425	408	-.505759+01	.292000+01	.119600+02
426	409	-.584000+01	.185633-06	.119600+02
427	410	.415000+01	.000000	.128100+02
428	411	.359401+01	.207500+01	.128100+02
429	412	.207500+01	.359401+01	.128100+02
430	413	.659570-07	.415000+01	.128100+02
431	414	-.207500+01	.359401+01	.128100+02
432	415	-.359401+01	.207500+01	.128100+02
433	416	-.415000+01	.131914-06	.128100+02
434	417	.242000+01	.000000	.136500+02
435	418	.209578+01	.121000+01	.136500+02
436	419	.121000+01	.209578+01	.136500+02
437	420	.384617-07	.242000+01	.136500+02
438	421	-.121000+01	.209578+01	.136500+02
439	422	-.209578+01	.121000+01	.136500+02
440	423	-.242000+01	.769234-07	.136500+02
441	424	.113000+01	.000000	.136500+02
442	425	.799031+00	.799031+00	.136500+02
443	426	.179594-07	.113000+01	.136500+02
444	427	-.799031+00	.799031+00	.136500+02
445	428	-.113000+01	.359188-07	.136500+02
446	429	.113000+01	.000000	.141250+02
447	430	.799031+00	.799031+00	.141250+02
448	431	.179594-07	.113000+01	.141250+02
449	432	-.799031+00	.799031+00	.141250+02
450	433	-.113000+01	.359188-07	.141250+02
451	434	.000000	.000000	.141250+02
452	435	.113000+01	.000000	.126000+02
453	436	.799031+00	.799031+00	.126000+02
454	437	.179594-07	.113000+01	.126000+02
455	438	-.799031+00	.799031+00	.126000+02

456	439	-.113000+01	.359186-07	.126000+02%
457	440	.550000+00	.000000	.113500+02%
458	441	.388909+00	.388909+00	.113500+02%
459	442	.874129-08	.550000+00	.113500+02%
460	443	-.388909+00	.388909+00	.113500+02%
461	444	-.550000+00	.174826-07	.113500+02%
462	445	.550000+00	.000000	.942000+01%
463	446	.388909+00	.388909+00	.942000+01%
464	447	.874129-08	.550000+00	.942000+01%
465	448	-.388909+00	.388909+00	.942000+01%
466	449	-.550000+00	.174826-07	.942000+01%
467	450	.450000+01	.000000	.117500+02%
468	451	.318198+01	.318198+01	.117500+02%
469	452	.715196-07	.450000+01	.117500+02%
470	453	-.318198+01	.318198+01	.117500+02%
471	454	-.450000+01	.143039-06	.117500+02%
472	455	.350000+01	.000000	.113500+02%
473	456	.303109+01	.175000+01	.113500+02%
474	457	.175000+01	.303109+01	.113500+02%
475	458	.556264-07	.350000+01	.113500+02%
476	459	-.175000+01	.303109+01	.113500+02%
477	460	-.303109+01	.175000+01	.113500+02%
478	461	-.350000+01	.111253-06	.113500+02%
479	462	.350000+01	.000000	.942000+01%
480	463	.303109+01	.175000+01	.942000+01%
481	464	.175000+01	.303109+01	.942000+01%
482	465	.556264-07	.350000+01	.942000+01%
483	466	-.175000+01	.303109+01	.942000+01%
484	467	-.303109+01	.175000+01	.942000+01%
485	468	-.350000+01	.111253-06	.942000+01%
486	NREF = 4			
487	469	.746250+01	.000000	-.763000+01%
488	470	.646271+01	.373125+01	-.763000+01%
489	471	.373125+01	.646271+01	-.763000+01%
490	472	.118603-06	.746250+01	-.763000+01%
491	473	-.373125+01	.646271+01	-.763000+01%
492	474	-.646271+01	.373125+01	-.763000+01%
493	475	-.746250+01	.237207-06	-.763000+01%
494	476	.746250+01	.000000	-.663000+01%
495	477	.734913+01	.129585+01	-.663000+01%
496	478	.701246+01	.255233+01	-.663000+01%
497	479	.646271+01	.373125+01	-.663000+01%
498	480	.571661+01	.479680+01	-.663000+01%
499	481	.479680+01	.571661+01	-.663000+01%
500	482	.373125+01	.646271+01	-.663000+01%
501	483	.255233+01	.701246+01	-.663000+01%
502	484	.129585+01	.734913+01	-.663000+01%
503	485	.118603-06	.746250+01	-.663000+01%
504	486	-.129585+01	.734913+01	-.663000+01%
505	487	-.255233+01	.701246+01	-.663000+01%
506	488	-.373125+01	.646271+01	-.663000+01%
507	489	-.479680+01	.571661+01	-.663000+01%
508	490	-.571661+01	.479680+01	-.663000+01%
509	491	-.646271+01	.373125+01	-.663000+01%
510	492	-.701246+01	.255233+01	-.663000+01%
511	493	-.734913+01	.129585+01	-.663000+01%
512	494	-.746250+01	.237207-06	-.663000+01%

ORIGINAL PAGE IS
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513	495	.929900+01	.000000	-.476600+01
514	496	.915773+01	.161475+01	-.476600+01
515	497	.873820+01	.318045+01	-.476600+01
516	498	.805317+01	.464950+01	-.476600+01
517	499	.712345+01	.597728+01	-.476600+01
518	500	.597728+01	.712345+01	-.476600+01
519	501	.464950+01	.805317+01	-.476600+01
520	502	.318045+01	.873820+01	-.476600+01
521	503	.161475+01	.915773+01	-.476600+01
522	504	.147791-06	.929900+01	-.476600+01
523	505	-.161475+01	.915773+01	-.476600+01
524	506	-.318045+01	.873820+01	-.476600+01
525	507	-.464950+01	.805317+01	-.476600+01
526	508	-.597728+01	.712345+01	-.476600+01
527	509	-.712345+01	.597728+01	-.476600+01
528	510	-.805317+01	.464950+01	-.476600+01
529	511	-.873820+01	.318045+01	-.476600+01
530	512	-.915773+01	.161475+01	-.476600+01
531	513	-.929900+01	.295583-06	-.476600+01
532	514	.993700+01	.000000	-.290300+01
533	515	.978603+01	.172554+01	-.290300+01
534	516	.933773+01	.339865+01	-.290300+01
535	517	.860569+01	.496850+01	-.290300+01
536	518	.761218+01	.638738+01	-.290300+01
537	519	.638738+01	.761218+01	-.290300+01
538	520	.496850+01	.860569+01	-.290300+01
539	521	.339865+01	.933773+01	-.290300+01
540	522	.172554+01	.978603+01	-.290300+01
541	523	.157931-06	.993700+01	-.290300+01
542	524	-.172554+01	.978603+01	-.290300+01
543	525	-.339865+01	.933773+01	-.290300+01
544	526	-.496850+01	.860569+01	-.290300+01
545	527	-.638738+01	.761218+01	-.290300+01
546	528	-.761218+01	.638738+01	-.290300+01
547	529	-.860569+01	.496850+01	-.290300+01
548	530	-.933773+01	.339865+01	-.290300+01
549	531	-.978603+01	.172554+01	-.290300+01
550	532	-.993700+01	.315863-06	-.290300+01
551	533	.101070+02	.000000	-.104000+01
552	534	.995345+01	.175506+01	-.104000+01
553	535	.949747+01	.345680+01	-.104000+01
554	536	.875292+01	.505350+01	-.104000+01
555	537	.774241+01	.649665+01	-.104000+01
556	538	.649665+01	.774241+01	-.104000+01
557	539	.505350+01	.875292+01	-.104000+01
558	540	.345680+01	.949747+01	-.104000+01
559	541	.175506+01	.995345+01	-.104000+01
560	542	.160633-06	.101070+02	-.104000+01
561	543	-.175506+01	.995345+01	-.104000+01
562	544	-.345680+01	.949747+01	-.104000+01
563	545	-.505350+01	.875292+01	-.104000+01
564	546	-.649665+01	.774241+01	-.104000+01
565	547	-.774241+01	.649665+01	-.104000+01
566	548	-.875292+01	.505350+01	-.104000+01
567	549	-.949747+01	.345680+01	-.104000+01
568	550	-.995345+01	.175506+01	-.104000+01
569	551	-.101070+02	.321266-06	-.104000+01

ORIGINAL PAGE IS
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LMSC-HREC TR D867307

570	552	.102700+02	.000000	.000000	\$
571	553	.101140+02	.178337+01	.000000	\$
572	554	.965064+01	.351255+01	.000000	\$
573	555	.889408+01	.513500+01	.000000	\$
574	556	.786728+01	.660143+01	.000000	\$
575	557	.660143+01	.786728+01	.000000	\$
576	558	.513500+01	.889408+01	.000000	\$
577	559	.351255+01	.965064+01	.000000	\$
578	560	.178337+01	.101140+02	.000000	\$
579	561	.163224-06	.102700+02	.000000	\$
580	562	-.178337+01	.101140+02	.000000	\$
581	563	-.351255+01	.965064+01	.000000	\$
582	564	-.513500+01	.889408+01	.000000	\$
583	565	-.660143+01	.786728+01	.000000	\$
584	566	-.786728+01	.660143+01	.000000	\$
585	567	-.889408+01	.513500+01	.000000	\$
586	568	-.965064+01	.351255+01	.000000	\$
587	569	-.101140+02	.178337+01	.000000	\$
588	570	-.102700+02	.326447-06	.000000	\$
589	571	.100170+02	.000000	.200000+01	\$
590	572	.986482+01	.173943+01	.200000+01	\$
591	573	.941290+01	.342602+01	.200000+01	\$
592	574	.867498+01	.500850+01	.200000+01	\$
593	575	.767347+01	.643880+01	.200000+01	\$
594	576	.643880+01	.767347+01	.200000+01	\$
595	577	.500850+01	.867498+01	.200000+01	\$
596	578	.342602+01	.941290+01	.200000+01	\$
597	579	.173943+01	.986482+01	.200000+01	\$
598	580	.159203-06	.100170+02	.200000+01	\$
599	581	-.173943+01	.986482+01	.200000+01	\$
600	582	-.342602+01	.941290+01	.200000+01	\$
601	583	-.500850+01	.867498+01	.200000+01	\$
602	584	-.643880+01	.767347+01	.200000+01	\$
603	585	-.767347+01	.643880+01	.200000+01	\$
604	586	-.867498+01	.500850+01	.200000+01	\$
605	587	-.941290+01	.342602+01	.200000+01	\$
606	588	-.986482+01	.173943+01	.200000+01	\$
607	589	-.100170+02	.318405-06	.200000+01	\$
608	590	.976450+01	.000000	.300000+01	\$
609	591	.961616+01	.169559+01	.300000+01	\$
610	592	.926214+01	.362979+01	.226000+01	\$
611	593	.846970+01	.500897+01	.270000+01	\$
612	594	.748004+01	.627650+01	.300000+01	\$
613	595	.627650+01	.748004+01	.300000+01	\$
614	596	.488225+01	.845630+01	.300000+01	\$
615	597	.333966+01	.917563+01	.300000+01	\$
616	598	.169559+01	.961616+01	.300000+01	\$
617	599	.155190-06	.976450+01	.300000+01	\$
618	600	-.169559+01	.961616+01	.300000+01	\$
619	601	-.333966+01	.917563+01	.300000+01	\$
620	602	-.488225+01	.845631+01	.300000+01	\$
621	603	-.627650+01	.748004+01	.300000+01	\$
622	604	-.748004+01	.627650+01	.300000+01	\$
623	605	-.845630+01	.488225+01	.300000+01	\$
624	606	-.917563+01	.333966+01	.300000+01	\$
625	607	-.961616+01	.169559+01	.300000+01	\$
626	608	-.976450+01	.310379-06	.300000+01	\$

627	609	.940000+01	.000000	.400000+01\$
628	610	.926250+01	.126880+01	.410000+01\$
629	611	.951806+01	.217993+01	.300000+01\$
630	612	.749684+01	.589943+01	.362000+01\$
631	613	.604220+01	.720082+01	.400000+01\$
632	614	.470000+01	.814064+01	.400000+01\$
633	615	.321499+01	.883311+01	.400000+01\$
634	616	.163229+01	.925719+01	.400000+01\$
635	617	.149397-06	.940000+01	.400000+01\$
636	618	-.163229+01	.925719+01	.400000+01\$
637	619	-.321499+01	.883311+01	.400000+01\$
638	620	-.470000+01	.814064+01	.400000+01\$
639	621	-.604220+01	.720082+01	.400000+01\$
640	622	-.720082+01	.604220+01	.400000+01\$
641	623	-.814064+01	.470000+01	.400000+01\$
642	624	-.883311+01	.321499+01	.400000+01\$
643	625	-.925719+01	.163229+01	.400000+01\$
644	626	-.940000+01	.298793-06	.400000+01\$
645	627	.889000+01	.000000	.503000+01\$
646	628	.865074+01	.924497+00	.529000+01\$
647	629	.633236+01	.644386+01	.474000+01\$
648	630	.571438+01	.681014+01	.503000+01\$
649	631	.444500+01	.769897+01	.503000+01\$
650	632	.304056+01	.835387+01	.503000+01\$
651	633	.154373+01	.875494+01	.503000+01\$
652	634	.141291-06	.889000+01	.503000+01\$
653	635	-.154373+01	.875494+01	.503000+01\$
654	636	-.304056+01	.835387+01	.503000+01\$
655	637	-.444500+01	.769897+01	.503000+01\$
656	638	-.571438+01	.681014+01	.503000+01\$
657	639	-.681014+01	.571438+01	.503000+01\$
658	640	-.769897+01	.444500+01	.503000+01\$
659	641	-.835387+01	.304056+01	.503000+01\$
660	642	-.875494+01	.154373+01	.503000+01\$
661	643	-.889000+01	.282582-06	.503000+01\$
662	644	.822200+01	.000000	.600000+01\$
663	645	.776876+01	.125826+01	.643300+01\$
664	646	.581755+01	.591998+01	.588600+01\$
665	647	.528500+01	.629842+01	.600000+01\$
666	648	.411100+01	.712046+01	.600000+01\$
667	649	.281209+01	.772615+01	.600000+01\$
668	650	.142774+01	.809709+01	.600000+01\$
669	651	.130674-06	.822200+01	.600000+01\$
670	652	-.142774+01	.809709+01	.600000+01\$
671	653	-.281209+01	.772615+01	.600000+01\$
672	654	-.411100+01	.712046+01	.600000+01\$
673	655	-.528500+01	.629842+01	.600000+01\$
674	656	-.629842+01	.528500+01	.600000+01\$
675	657	-.712046+01	.411100+01	.600000+01\$
676	658	-.772615+01	.281209+01	.600000+01\$
677	659	-.809709+01	.142774+01	.600000+01\$
678	660	-.822200+01	.261349-06	.600000+01\$
679	661	.742500+01	.000000	.700000+01\$
680	662	.731220+01	.128934+01	.700000+01\$
681	663	.672635+01	.218552+01	.730000+01\$
682	664	.581114+01	.360306+01	.750000+01\$
683	665	.555240+01	.492965+01	.700000+01\$

684	566	.477270*01	.568788*01	.700000*01
685	667	.371250*01	.643024*01	.700000*01
686	668	.253950*01	.697722*01	.700000*01
687	669	.128934*01	.731220*01	.700000*01
688	670	.118007-06	.742500*01	.700000*01
689	671	-.128934*01	.731220*01	.700000*01
690	672	-.253950*01	.697722*01	.700000*01
691	673	-.371250*01	.643024*01	.700000*01
692	674	-.477270*01	.568788*01	.700000*01
693	675	-.568788*01	.477270*01	.700000*01
694	676	-.643024*01	.371250*01	.700000*01
695	677	-.697722*01	.253950*01	.700000*01
696	678	-.731220*01	.128934*01	.700000*01
697	679	-.742500*01	.236015-06	.700000*01
698	680	.625000*01	.000000	.800000*01
699	681	.615505*01	.108530*01	.800000*01
700	682	.587308*01	.213763*01	.800000*01
701	683	.541266*01	.312500*01	.800000*01
702	684	.478778*01	.401742*01	.800000*01
703	685	.401742*01	.478778*01	.800000*01
704	686	.312500*01	.541266*01	.800000*01
705	687	.213763*01	.587308*01	.800000*01
706	688	.108530*01	.615505*01	.800000*01
707	689	.993328-07	.625000*01	.800000*01
708	690	-.108530*01	.615505*01	.800000*01
709	691	-.213763*01	.587308*01	.800000*01
710	692	-.312500*01	.541266*01	.800000*01
711	693	-.401742*01	.478778*01	.800000*01
712	694	-.478778*01	.401742*01	.800000*01
713	695	-.541266*01	.312500*01	.800000*01
714	696	-.587308*01	.213763*01	.800000*01
715	697	-.615505*01	.108530*01	.800000*01
716	698	-.625000*01	.198666-06	.800000*01
717	699	.555000*01	.000000	.850000*01
718	700	.546568*01	.963747*00	.850000*01
719	701	.521529*01	.189821*01	.850000*01
720	702	.480644*01	.277500*01	.850000*01
721	703	.425155*01	.356747*01	.850000*01
722	704	.356747*01	.425155*01	.850000*01
723	705	.277500*01	.480644*01	.850000*01
724	706	.189821*01	.521529*01	.850000*01
725	707	.963747*00	.546568*01	.850000*01
726	708	.882076-07	.555000*01	.850000*01
727	709	-.963747*00	.546568*01	.850000*01
728	710	-.189821*01	.521529*01	.850000*01
729	711	-.277500*01	.480644*01	.850000*01
730	712	-.356747*01	.425155*01	.850000*01
731	713	-.425155*01	.356747*01	.850000*01
732	714	-.480644*01	.277500*01	.850000*01
733	715	-.521529*01	.189821*01	.850000*01
734	716	-.546568*01	.963748*00	.850000*01
735	717	-.555000*01	.176415-06	.850000*01
736	718	.000000	.000000	.156000*02
737	719	.700000*00	.000000	.158500*02
738	720	.494975*00	.494975*00	.158500*02
739	721	.111253-07	.700000*00	.158500*02
740	722	-.494975*00	.494975*00	.158500*02

ORIGINAL PAGE IS
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741	723	-.700000+00	.222506-07	.158500+02%
742	724	.160000+01	.000000	.152500+02%
743	725	.138564+01	.800000+00	.152500+02%
744	726	.800000+00	.138564+01	.152500+02%
745	727	.251292-07	.160000+01	.152500+02%
746	728	-.800000+00	.138564+01	.152500+02%
747	729	-.138564+01	.800000+00	.152500+02%
748	730	-.160000+01	.508584-07	.152500+02%
749	731	.220000+01	.000000	.152500+02%
750	732	.190526+01	.110000+01	.152500+02%
751	733	.110000+01	.190526+01	.152500+02%
752	734	.349652-07	.220000+01	.152500+02%
753	735	-.110000+01	.190526+01	.152500+02%
754	736	-.190526+01	.110000+01	.152500+02%
755	737	-.220000+01	.699303-07	.152500+02%
756	738	.396000+01	.000000	.139000+02%
757	739	.342946+01	.198000+01	.139000+02%
758	740	.198000+01	.342946+01	.139000+02%
759	741	.629373-07	.396000+01	.139000+02%
760	742	-.198000+01	.342946+01	.139000+02%
761	743	-.342946+01	.198000+01	.139000+02%
762	744	-.396000+01	.125875-06	.139000+02%
763	745	.438700+01	.000000	.137550+02%
764	746	.379925+01	.219350+01	.137550+02%
765	747	.219350+01	.379925+01	.137550+02%
766	748	.697237-07	.438700+01	.137550+02%
767	749	-.219350+01	.379925+01	.137550+02%
768	750	-.379925+01	.219350+01	.137550+02%
769	751	-.438700+01	.139447-06	.137550+02%
770	752	.700000+00	.000000	.147000+02%
771	753	.494975+00	.494975+00	.147000+02%
772	754	.111253-07	.700000+00	.147000+02%
773	755	-.494975+00	.494975+00	.147000+02%
774	756	-.700000+00	.222506-07	.147000+02%
775	757	.160000+01	.000000	.144500+02%
776	758	.138564+01	.800000+00	.144500+02%
777	759	.800000+00	.138564+01	.144500+02%
778	760	.254292-07	.160000+01	.144500+02%
779	761	-.800000+00	.138564+01	.144500+02%
780	762	-.138564+01	.800000+00	.144500+02%
781	763	-.160000+01	.508584-07	.144500+02%
782	764	.330000+01	.000000	.140000+02%
783	765	.285788+01	.165000+01	.140000+02%
784	766	.165000+01	.285788+01	.140000+02%
785	767	.524477-07	.330000+01	.140000+02%
786	768	-.165000+01	.285788+01	.140000+02%
787	769	-.285788+01	.165000+01	.140000+02%
788	770	-.330000+01	.104895-06	.140000+02%
789	771	.700000+00	.000000	.134200+02%
790	772	.494975+00	.494975+00	.134200+02%
791	773	.111253-07	.700000+00	.134200+02%
792	774	-.494975+00	.494975+00	.134200+02%
793	775	-.700000+00	.222506-07	.134200+02%
794	776	.230000+01	.000000	.132000+02%
795	777	.199186+01	.115000+01	.132000+02%
796	778	.115000+01	.199186+01	.132000+02%
797	779	.365545-07	.230000+01	.132000+02%

798	780	-.115000+01	.199186+01	.132000+02%
799	781	-.199186+01	.115000+01	.132000+02%
800	782	-.230000+01	.731090-07	.132000+02%
801	783	.396000+01	.000000	.136000+02%
802	784	.342946+01	.198000+01	.136000+02%
803	785	.198000+01	.342946+01	.136000+02%
804	786	.629373-07	.396000+01	.136000+02%
805	787	-.198000+01	.342946+01	.136000+02%
806	788	-.342946+01	.198000+01	.136000+02%
807	789	-.396000+01	.125875-06	.136000+02%
808	790	.700000+00	.000000	.116550+02%
809	791	.494975+00	.494975+00	.116550+02%
810	792	.111253-07	.700000+00	.116550+02%
811	793	-.494975+00	.494975+00	.116550+02%
812	794	-.700000+00	.222506-07	.116550+02%
813	795	.230000+01	.000000	.116550+02%
814	796	.199186+01	.115000+01	.116550+02%
815	797	.115000+01	.199186+01	.116550+02%
816	798	.365545-07	.230000+01	.116550+02%
817	799	-.115000+01	.199186+01	.116550+02%
818	800	-.199186+01	.115000+01	.116550+02%
819	801	-.230000+01	.731090-07	.116550+02%
820	802	-.418000+01	.000000	.116550+02%
821	803	.361999+01	.209000+01	.116550+02%
822	804	.209000+01	.361999+01	.116550+02%
823	805	.664338-07	.418000+01	.116550+02%
824	806	-.209000+01	.361999+01	.116550+02%
825	807	-.361999+01	.209000+01	.116550+02%
826	808	-.418000+01	.132868-06	.116550+02%
827	809	.407000+01	.000000	.777000+01%
828	810	.352472+01	.203500+01	.777000+01%
829	811	.203500+01	.352472+01	.777000+01%
830	812	.646855-07	.407000+01	.777000+01%
831	813	-.203500+01	.352472+01	.777000+01%
832	814	-.352472+01	.203500+01	.777000+01%
833	815	-.407000+01	.129371-06	.777000+01%
834	816	.491000+01	.000000	.777000+01%
835	817	.425218+01	.245500+01	.777000+01%
836	818	.245500+01	.425218+01	.777000+01%
837	819	.780359-07	.491000+01	.777000+01%
838	820	-.245500+01	.425218+01	.777000+01%
839	821	-.425218+01	.245500+01	.777000+01%
840	822	-.491000+01	.156072-06	.777000+01%
841	823	.418000+01	.000000	.934500+01%
842	824	.361999+01	.209000+01	.934500+01%
843	825	.209000+01	.361999+01	.934500+01%
844	826	.664338-07	.418000+01	.934500+01%
845	827	-.209000+01	.361999+01	.934500+01%
846	828	-.361999+01	.209000+01	.934500+01%
847	829	-.418000+01	.132868-06	.934500+01%
848	NREF = 6			
849	830	.476798-07	.300000+01	.365000+01%
850	831	-.150000+01	.259808+01	.365000+01%
851	832	-.259808+01	.150000+01	.365000+01%
852	833	-.316250+01	.100525-06	.365000+01%
853	834	.304625+01	.000000	.496250+01%
854	835	.249848+01	.144250+01	.496250+01%

855	836	.144250+01	.249848+01	.496250+01
856	637	.458520-07	.288500+01	.496250+01
857	838	.144250+01	.249848+01	.496250+01
858	839	-.249848+01	.144250+01	.496250+01
859	840	-.304625+01	.968297-07	.496250+01
860	841	.293000+01	.000000	.627500+01
861	842	.219889+01	.138500+01	.627500+01
862	843	.138500+01	.239889+01	.627500+01
863	844	-.440243-07	.277000+01	.627500+01
864	845	-.138500+01	.239889+01	.627500+01
865	846	-.239889+01	.138500+01	.627500+01
866	847	-.293000+01	.931345-07	.627500+01
867	848	.281375+01	.000000	.758750+01
868	849	.229930+01	.132750+01	.758750+01
869	850	.132750+01	.229930+01	.758750+01
870	851	.421966-07	.265500+01	.758750+01
871	852	-.132750+01	.229930+01	.758750+01
872	853	-.229930+01	.132750+01	.758750+01
873	854	-.281375+01	.894393-07	.758750+01
874	855	.269750+01	.000000	.890000+01
875	856	.219970+01	.127000+01	.890000+01
876	857	.127000+01	.219970+01	.890000+01
877	858	.403689-07	.254000+01	.890000+01
878	859	.127000+01	.219970+01	.890000+01
879	860	-.219970+01	.127000+01	.890000+01
880	NREF = 7			
881	861	.143250+01	.248116+01	.955000+01
882	862	.455342-07	.286500+01	.955000+01
883	863	.143250+01	.248116+01	.955000+01
884	864	.302250+01	.000000	.995000+01
885	865	.248116+01	.143250+01	.955000+01
886	866	.143250+01	.248116+01	.955000+01
887	867	.455342-07	.286500+01	.955000+01
888	868	-.143250+01	.248116+01	.955000+01
889	869	-.248116+01	.143250+01	.955000+01
890	870	-.302250+01	.960747-07	.955000+01
891	871	.302250+01	.000000	.117500+02
892	872	.248116+01	.143250+01	.117500+02
893	873	.143250+01	.248116+01	.117500+02
894	874	.455342-07	.286500+01	.117500+02
895	875	-.143250+01	.248116+01	.117500+02
896	876	-.248116+01	.143250+01	.117500+02
897	877	-.302250+01	.960747-07	.117500+02
898	878	-.248116+01	.143250+01	.117500+02
899	879	-.143250+01	.248116+01	.117500+02
900	880	-.136603-06	.286500+01	.117500+02
901	881	.143250+01	.248116+01	.117500+02
902	882	.248116+01	.143250+01	.117500+02
903	883	.289940+01	.000000	.130625+02
904	884	.239131+01	.138062+01	.130625+02
905	885	.138063+01	.239131+01	.130625+02
906	886	.438852-07	.276125+01	.130625+02
907	887	-.138062+01	.239131+01	.130625+02
908	888	-.239131+01	.138063+01	.130625+02
909	889	-.289940+01	.921618-07	.130625+02
910	890	-.239131+01	.138062+01	.130625+02
911	891	-.138063+01	.239131+01	.130625+02

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912	892	-.131656-06	-.276125+01	.130625+02%
913	893	.138062+01	-.239131+01	.130625+02%
914	894	.239131+01	-.138063+01	.130625+02%
915	895	.277625+01	.000000	.143750+02%
916	896	.230146+01	.132875+01	.143750+02%
917	897	.132875+01	.230146+01	.143750+02%
918	898	.422363-07	.265750+01	.143750+02%
919	899	-.132875+01	.230146+01	.143750+02%
920	900	-.230146+01	.132875+01	.143750+02%
921	901	-.277625+01	.882473-07	.143750+02%
922	902	-.230146+01	-.132875+01	.143750+02%
923	903	-.132875+01	-.230146+01	.143750+02%
924	904	-.126709-06	-.265750+01	.143750+02%
925	905	.132875+01	-.230146+01	.143750+02%
926	906	.230146+01	-.132875+01	.143750+02%
927	907	.265310+01	.000000	.156875+02%
928	908	.221161+01	.127687+01	.156875+02%
929	909	.227688+01	.221161+01	.156875+02%
930	910	.405874-07	.255375+01	.156875+02%
931	911	-.127687+01	.221161+01	.156875+02%
932	912	-.221161+01	.127688+01	.156875+02%
933	913	-.265310+01	.843328-07	.156875+02%
934	914	-.221161+01	-.127687+01	.156875+02%
935	915	-.127688+01	-.221161+01	.156875+02%
936	916	-.121762-06	-.255375+01	.156875+02%
937	917	.127687+01	-.221161+01	.156875+02%
938	918	.221161+01	-.127688+01	.156875+02%
939	919	.253000+01	.000000	.170000+02%
940	920	.212176+01	-.122500+01	.170000+02%
941	921	.122500+01	.212176+01	.170000+02%
942	922	.389385-07	.245000+01	.170000+02%
943	923	-.122500+01	.212176+01	.170000+02%
944	924	-.212176+01	-.122500+01	.170000+02%
945	925	-.253000+01	.804199-07	.170000+02%
946	926	-.212176+01	-.122500+01	.170000+02%
947	927	-.122500+01	-.212176+01	.170000+02%
948	928	-.116815-06	-.245000+01	.170000+02%
949	929	.122500+01	-.212176+01	.170000+02%
950	930	.212176+01	-.122500+01	.170000+02%
951	931	.253000+01	.000000	.191000+02%
952	932	.212176+01	.122500+01	.190000+02%
953	933	.122500+01	.212176+01	.190000+02%
954	934	.389385-07	.245000+01	.190000+02%
955	935	-.122500+01	.212176+01	.190000+02%
956	936	-.212176+01	-.122500+01	.190000+02%
957	937	-.253000+01	.804199-07	.190000+02%
958	938	.122500+01	.212176+01	.210000+02%
959	939	.389385-07	.245000+01	.210000+02%
960	940	-.122500+01	.212176+01	.210000+02%
961	NREF = 9			
962	941	.289250+01	.000000	.450000+01%
963	942	.244912+01	.141400+01	.450000+01%
964	943	.135250+01	.234260+01	.450000+01%
965	944	.429913-07	.270500+01	.450000+01%
966	945	-.135250+01	.234260+01	.450000+01%
967	946	.289250+01	.000000	.570000+01%
968	947	.244912+01	.141400+01	.570000+01%

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969	948	.135250+01	.234260+01	.570000+01
970	949	.429913-07	.270500+01	.570000+01
971	950	.310500+01	.234260+01	.570000+01
972	951	-.250714+01	.144750+01	.570000+01
973	952	-.310500+01	.986971-07	.570000+01
974	953	-.250714+01	-.144750+01	.570000+01
975	954	-.135250+01	-.234260+01	.570000+01
976	955	-.128974-06	-.270500+01	.570000+01
977	956	.135250+01	-.234260+01	.570000+01
978	957	.244912+01	-.141400+01	.570000+01
979	958	.289250+01	.000000	.690000+01
980	959	.244912+01	.141400+01	.690000+01
981	960	.135250+01	.234260+01	.690000+01
982	961	.429913-07	.270500+01	.690000+01
983	962	-.135250+01	.234260+01	.690000+01
984	963	-.250714+01	.144750+01	.690000+01
985	964	-.310500+01	.986971-07	.690000+01
986	965	-.250714+01	-.144750+01	.690000+01
987	966	-.135250+01	-.234260+01	.690000+01
988	967	-.128974-06	-.270500+01	.690000+01
989	968	.135250+01	-.234260+01	.690000+01
990	969	.244912+01	-.141400+01	.690000+01
991	970	.289250+01	.000000	.810000+01
992	971	.244912+01	.141400+01	.810000+01
993	972	.135250+01	.234260+01	.810000+01
994	973	.429913-07	.270500+01	.810000+01
995	974	-.135250+01	.234260+01	.810000+01
996	975	-.250714+01	.144750+01	.810000+01
997	976	-.310500+01	.986971-07	.810000+01
998	977	-.250714+01	-.144750+01	.810000+01
999	978	-.135250+01	-.234260+01	.810000+01
1000	979	-.128974-06	-.270500+01	.810000+01
1001	980	.135250+01	.234260+01	.810000+01
1002	981	.244912+01	-.141400+01	.810000+01
1003	982	.289250+01	.000000	.930000+01
1004	983	.244912+01	.141400+01	.930000+01
1005	984	.135250+01	.234260+01	.930000+01
1006	985	.429913-07	.270500+01	.930000+01
1007	986	-.135250+01	.234260+01	.930000+01
1008	987	.244912+01	-.141400+01	.930000+01
1009	NREF = 2			
1010	988	.943751+01	-.544875+01	-.570000+01
1011	989	.544875+01	-.943751+01	-.570000+01
1012	990	.173197-06	-.108975+02	-.570000+01
1013	991	-.544875+01	-.943751+01	-.570000+01
1014	992	-.943751+01	-.544875+01	-.570000+01
1015	993	.107319+02	-.189233+01	-.401700+01
1016	994	.102403+02	-.372716+01	-.401700+01
1017	995	.943751+01	-.544875+01	-.401700+01
1018	996	.825556+01	-.711345+01	-.375000+01
1019	997	.700478+01	-.834797+01	-.401700+01
1020	998	.544875+01	-.943751+01	-.401700+01
1021	999	.372716+01	-.102403+02	-.401700+01
1022	1000	.189233+01	-.107319+02	-.401700+01
1023	1001	.173197-06	-.108975+02	-.401700+01
1024	1002	-.189233+01	-.107319+02	-.401700+01
1025	1003	-.372716+01	-.102403+02	-.401700+01

1026	1004	-.544875*01	-.943751*01	-.401700*01
1027	1005	-.700478*01	-.834797*01	-.401700*01
1028	1006	-.834797*01	-.700478*01	-.401700*01
1029	1007	-.943751*01	-.544875*01	-.401700*01
1030	1008	-.102403*02	-.372716*01	-.401700*01
1031	1009	-.107319*02	-.109233*01	-.401700*01
1032	1010	.109821*02	-.154343*01	-.336000*01
1033	1011	.104063*02	-.441722*01	-.252000*01
1034	1012	.955547*01	-.562860*01	-.330000*01
1035	1013	.699993*01	-.876866*01	-.310000*01
1036	1014	.564000*01	-.976877*01	-.267800*01
1037	1015	.385799*01	-.105997*02	-.267800*01
1038	1016	.195875*01	-.111086*02	-.267800*01
1039	1017	.179276*06	-.112800*02	-.267800*01
1040	1018	-.195875*01	-.111086*02	-.267800*01
1041	1019	-.385799*01	-.105997*02	-.267800*01
1042	1020	-.564000*01	-.976877*01	-.267800*01
1043	1021	-.725064*01	-.864098*01	-.267800*01
1044	1022	-.864098*01	-.725064*01	-.267800*01
1045	1023	-.100855*02	-.498455*01	-.277700*01
1046	1024	-.104480*02	-.359753*01	-.347000*01
1047	1025	-.109946*02	-.218696*01	-.286000*01
1048	1026	.109217*02	-.257153*01	-.226000*01
1049	1027	.106807*02	-.394341*01	-.920000*00
1050	1028	.557911*01	-.986113*01	-.190000*01
1051	1029	.389219*01	-.106937*02	-.133900*01
1052	1030	.197612*01	-.112071*02	-.133900*01
1053	1031	.180865*06	-.113800*02	-.133900*01
1054	1032	.197612*01	-.112071*02	-.133900*01
1055	1033	-.389219*01	-.106937*02	-.133900*01
1056	1034	-.569000*01	-.985537*01	-.133900*01
1057	1035	-.731492*01	-.871759*01	-.133900*01
1058	1036	-.871759*01	-.731492*01	-.133900*01
1059	1037	-.973742*01	-.585083*01	-.160700*01
1060	1038	-.112770*02	-.128486*01	-.174000*01
1061	1039	.110309*02	-.295571*01	-.720000*00
1062	1040	.104742*02	-.450008*01	-.100000*01
1063	1041	.497005*01	-.103040*02	-.400000*00
1064	1042	.391955*01	-.107689*02	.000000 \$
1065	1043	.199001*01	-.112859*02	.000000 \$
1066	1044	.102137*06	-.114600*02	.000000 \$
1067	1045	-.199001*01	-.112859*02	.000000 \$
1068	1046	-.391955*01	-.107689*02	.000000 \$
1069	1047	-.573000*01	-.992465*01	.000000 \$
1070	1048	-.736635*01	-.877887*01	.000000 \$
1071	1049	-.877887*01	-.736635*01	.000000 \$
1072	1050	-.953965*01	-.631416*01	-.297000*00
1073	1051	-.113907*02	-.946498*00	-.446300*00
1074	1052	.110673*02	-.260601*01	.780000*00
1075	1053	.558408*01	-.986983*01	.101100*01
1076	1054	.387851*01	-.106561*02	.101100*01
1077	1055	.196917*01	-.111677*02	.101100*01
1078	1056	.180230*06	-.113400*02	.101100*01
1079	1057	-.196917*01	-.111677*02	.101100*01
1080	1058	-.387851*01	-.106561*02	.101100*01
1081	1059	-.567000*01	-.982073*01	.101100*01
1082	1060	-.728921*01	-.868694*01	.101100*01

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1083	1061	-.868694+01	-.728921+01	.101100+01
1084	1062	-.943959+01	-.624793+01	.106100+01
1085	1063	-.112790+02	-.128508+01	.910000+00
1086	1064	.106694+02	-.246321+01	.206000+01
1087	1065	.103178+02	-.375538+01	.202200+01
1088	1066	.956408+01	-.563368+01	.166000+01
1089	1067	.809621+01	-.716292+01	.234000+01
1090	1068	.677228+01	-.866812+01	.194000+01
1091	1069	.549000+01	-.950896+01	.202200+01
1092	1070	.375538+01	-.103178+02	.202200+01
1093	1071	.190666+01	-.108132+02	.202200+01
1094	1072	.174508-06	-.109800+02	.202200+01
1095	1073	-.190666+01	-.108132+02	.202200+01
1096	1074	-.375538+01	-.103178+02	.202200+01
1097	1075	-.549000+01	-.950896+01	.202200+01
1098	1076	-.705781+01	-.841117+01	.202200+01
1099	1077	-.841117+01	-.705781+01	.202200+01
1100	1078	-.985275+01	-.502023+01	.217300+01
1101	1079	-.106165+02	-.381170+01	.260000+01
1102	1080	-.107812+02	-.221306+01	.207250+01
1103	1081	.103405+02	-.182331+01	.303300+01
1104	1082	.986677+01	-.359121+01	.303300+01
1105	1083	.909327+01	-.525000+01	.303300+01
1106	1084	.804347+01	-.674927+01	.303300+01
1107	1085	.674927+01	-.804347+01	.303300+01
1108	1086	.525000+01	-.909327+01	.303300+01
1109	1087	.359121+01	-.986677+01	.303300+01
1110	1088	.182331+01	-.103405+02	.303300+01
1111	1089	.166879-06	-.105000+02	.303300+01
1112	1090	-.182331+01	-.103405+02	.303300+01
1113	1091	-.359121+01	-.986677+01	.303300+01
1114	1092	.525000+01	-.909327+01	.303300+01
1115	1093	-.674927+01	-.804347+01	.303300+01
1116	1094	-.804347+01	-.674927+01	.303300+01
1117	1095	-.909327+01	-.525000+01	.303300+01
1118	1096	-.986677+01	-.359121+01	.303300+01
1119	1097	-.103405+02	-.182331+01	.303300+01
1120	1098	.972990+01	-.171564+01	.407940+01
1121	1099	.928416+01	-.337916+01	.407940+01
1122	1100	.855633+01	-.494000+01	.407940+01
1123	1101	.756852+01	-.635074+01	.407940+01
1124	1102	.635074+01	-.756852+01	.407940+01
1125	1103	.494000+01	-.855633+01	.407940+01
1126	1104	.337916+01	-.928416+01	.407940+01
1127	1105	.171564+01	-.972990+01	.407940+01
1128	1106	.157025-06	-.988000+01	.407940+01
1129	1107	-.171564+01	-.972990+01	.407940+01
1130	1108	-.337916+01	-.928416+01	.407940+01
1131	1109	-.494000+01	-.855633+01	.407940+01
1132	1110	-.635074+01	-.756852+01	.407940+01
1133	1111	-.756852+01	-.635074+01	.407940+01
1134	1112	-.855633+01	-.494000+01	.407940+01
1135	1113	-.928416+01	-.337916+01	.407940+01
1136	1114	-.972990+01	-.171564+01	.407940+01
1137	1115	.702347+01	-.905500+01	.616000+01
1138	1116	.405500+01	-.702347+01	.616000+01
1139	1117	.128894-06	-.811000+01	.616000+01

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1140	1118	-.405500+01	-.702347+01	.616000+01s
1141	1119	-.702347+01	-.405500+01	.616000+01s
1142	1120	.528276+01	-.305000+01	.878000+01s
1143	1121	.305000+01	-.528275+01	.878000+01s
1144	1122	.969489-07	-.610000+01	.878000+01s
1145	1123	-.305000+01	-.528276+01	.878000+01s
1146	1124	-.528275+01	-.305000+01	.878000+01s
1147	1125	.355070+01	-.205000+01	.112500+02s
1148	1126	.205000+01	-.355070+01	.112500+02s
1149	1127	.651623-07	-.410000+01	.112500+02s
1150	1128	-.205000+01	-.355070+01	.112500+02s
1151	1129	-.355070+01	-.205000+01	.112500+02s
1152	1130	.165463+01	-.165463+01	.135300+02s
1153	1131	.371902-07	-.234000+01	.135300+02s
1154	1132	-.165463+01	-.165463+01	.135300+02s
1155	1133	.407032+01	-.235000+01	.535000+01s
1156	1134	.235000+01	-.407032+01	.535000+01s
1157	1135	.746983-07	-.470000+01	.535000+01s
1158	1136	-.235000+01	-.407032+01	.535000+01s
1159	1137	-.407032+01	-.235000+01	.535000+01s
1160	1138	-.165463+01	-.165463+01	.303000+01s
1161	1139	.371902-07	-.234000+01	.303000+01s
1162	1140	-.165463+01	-.165463+01	.303000+01s
1163	1141	.606218+01	-.350000+01	.270000+01s
1164	1142	.350000+01	-.606218+01	.270000+01s
1165	1143	.111253-06	-.700000+01	.270000+01s
1166	1144	-.350000+01	-.606218+01	.270000+01s
1167	1145	-.606218+01	-.350000+01	.270000+01s
1168	1146	.272798+01	-.157500+01	.870000+00s
1169	1147	.157500+01	-.272798+01	.870000+00s
1170	1148	.500638-07	-.315000+01	.870000+00s
1171	1149	-.157500+01	-.272798+01	.870000+00s
1172	1150	-.272798+01	-.157500+01	.870000+00s
1173	1151	.115966+01	-.115966+01	.870000+00s
1174	1152	.260649-07	-.164000+01	.870000+00s
1175	1153	-.115966+01	-.115966+01	.870000+00s
1176	1154	.606218+01	-.350000+01	-.407000+01s
1177	1155	.350000+01	-.606218+01	-.407000+01s
1178	1156	.111253-06	-.700000+01	-.407000+01s
1179	1157	-.350000+01	-.606218+01	-.407000+01s
1180	1158	-.606218+01	-.350000+01	-.407000+01s
1181	1159	.222739+01	-.222739+01	-.407000+01s
1182	1160	.500638-07	-.315000+01	-.407000+01s
1183	1161	-.222739+01	-.222739+01	-.407000+01s
1184	1162	.165463+01	-.165463+01	.112500+02s
1185	1163	.371902-07	-.234000+01	.112500+02s
1186	1164	-.165463+01	-.165463+01	.112500+02s
1187	1165	.165463+01	-.165463+01	.715000+01s
1188	1166	.371902-07	-.234000+01	.715000+01s
1189	1167	.165463+01	-.165463+01	.715000+01s
1190	1168	.115966+01	-.115966+01	.195000+01s
1191	1169	.260649-07	-.164000+01	.195000+01s
1192	1170	-.115966+01	-.115966+01	.195000+01s
1193	NREF = 3			
1194	1171	-.766432+01	-.442500+01	-.374000+01s
1195	1172	.442500+01	-.766432+01	-.374000+01s
1196	1173	.140655-06	-.885000+01	-.374000+01s

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1197	1174	-.442500+01	-.766432+01	-.374000+01\$
1198	1175	-.766432+01	-.442500+01	-.374000+01\$
1199	1176	-.871555+01	-.153679+01	-.174000+01\$
1200	1177	-.831628+01	-.302688+01	-.174000+01\$
1201	1178	-.766432+01	-.442500+01	-.174000+01\$
1202	1179	-.677949+01	-.568867+01	-.174000+01\$
1203	1180	-.568867+01	-.677949+01	-.174000+01\$
1204	1181	-.442500+01	-.766432+01	-.174000+01\$
1205	1182	-.302688+01	-.831628+01	-.174000+01\$
1206	1183	-.153679+01	-.871555+01	-.174000+01\$
1207	1184	-.140655-06	-.885000+01	-.174000+01\$
1208	1185	-.153679+01	-.871555+01	-.174000+01\$
1209	1186	-.302688+01	-.831628+01	-.174000+01\$
1210	1187	-.442500+01	-.766432+01	-.174000+01\$
1211	1188	-.568867+01	-.677949+01	-.174000+01\$
1212	1189	-.677949+01	-.568867+01	-.174000+01\$
1213	1190	-.766432+01	-.442500+01	-.174000+01\$
1214	1191	-.831628+01	-.302688+01	-.174000+01\$
1215	1192	-.871555+01	-.153679+01	-.174000+01\$
1216	1193	-.846442+01	-.149251+01	-.870000+00\$
1217	1194	-.807666+01	-.293966+01	-.870000+00\$
1218	1195	-.744349+01	-.429750+01	-.870000+00\$
1219	1196	-.658415+01	-.552476+01	-.870000+00\$
1220	1197	-.552476+01	-.658415+01	-.870000+00\$
1221	1198	-.429750+01	-.744349+01	-.870000+00\$
1222	1199	-.293966+01	-.807666+01	-.870000+00\$
1223	1200	-.149251+01	-.846442+01	-.870000+00\$
1224	1201	-.136603-06	-.859500+01	-.870000+00\$
1225	1202	-.149251+01	-.846442+01	-.870000+00\$
1226	1203	-.293966+01	-.807666+01	-.870000+00\$
1227	1204	-.461883+01	-.727811+01	-.100000+01\$
1228	1205	-.604955+01	-.615606+01	-.103000+01\$
1229	1206	-.658415+01	-.552476+01	-.870000+00\$
1230	1207	-.744349+01	-.429750+01	-.870000+00\$
1231	1208	-.807666+01	-.293966+01	-.870000+00\$
1232	1209	-.852341+01	-.110700+01	-.870000+00\$
1233	1210	-.846442+01	-.149251+01	.000000 \$
1234	1211	-.807666+01	-.293966+01	.000000 \$
1235	1212	-.744349+01	-.429750+01	.000000 \$
1236	1213	-.658415+01	-.552476+01	.000000 \$
1237	1214	-.552476+01	-.658415+01	.700000 \$
1238	1215	-.429750+01	-.744349+01	.000000 \$
1239	1216	-.293966+01	-.807666+01	.000000 \$
1240	1217	-.149251+01	-.846442+01	.000000 \$
1241	1218	-.136603-06	-.859500+01	.000000 \$
1242	1219	-.149251+01	-.846442+01	.000000 \$
1243	1220	-.283369+01	-.811445+01	-.440000+00\$
1244	1221	-.699732+01	-.499114+01	-.440000+00\$
1245	1222	-.744349+01	-.429750+01	.000000 \$
1246	1223	-.807666+01	-.293966+01	.000000 \$
1247	1224	-.830213+01	-.222455+01	.000000 \$
1248	1225	-.843980+01	-.148816+01	.102500+01\$
1249	1226	-.805317+01	-.293111+01	.102500+01\$
1250	1227	-.742184+01	-.428500+01	.102500+01\$
1251	1228	-.656500+01	-.550869+01	.102500+01\$
1252	1229	-.550869+01	-.656500+01	.102500+01\$
1253	1230	-.428500+01	-.742184+01	.102500+01\$

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1254	1231	.293111+01	-.805317+01	.102500+01\$
1255	1232	.148816+01	-.843980+01	.102500+01\$
1256	1233	.136205-06	-.857000+01	.102500+01\$
1257	1234	-.148816+01	-.843980+01	.102500+01\$
1258	1235	-.219172+01	-.829534+01	.620000+00\$
1259	1236	-.751149+01	-.414656+01	.660000+00\$
1260	1237	-.805317+01	-.293111+01	.102500+01\$
1261	1238	-.811165+01	-.257317+01	.126000+01\$
1262	1239	.820345+01	-.144649+01	.205000+01\$
1263	1240	.782764+01	-.284903+01	.205000+01\$
1264	1241	.721399+01	-.416500+01	.205000+01\$
1265	1242	.638115+01	-.535442+01	.205000+01\$
1266	1243	.535442+01	-.638115+01	.205000+01\$
1267	1244	.416500+01	-.721399+01	.205000+01\$
1268	1245	.284903+01	-.782764+01	.205000+01\$
1269	1246	.144649+01	-.820345+01	.205000+01\$
1270	1247	.132391-06	-.833000+01	.205000+01\$
1271	1248	-.144649+01	-.820345+01	.205000+01\$
1272	1249	-.232958+01	-.801845+01	.196000+01\$
1273	1250	-.745772+01	-.379990+01	.188600+01\$
1274	1251	-.782764+01	-.284903+01	.205000+01\$
1275	1252	-.786326+01	-.221767+01	.256250+01\$
1276	1253	.788831+01	-.139092+01	.307500+01\$
1277	1254	.752694+01	-.273958+01	.307500+01\$
1278	1255	.693686+01	-.400500+01	.307500+01\$
1279	1256	.613602+01	-.514873+01	.307500+01\$
1280	1257	.514873+01	-.613602+01	.307500+01\$
1281	1258	.400500+01	-.693686+01	.307500+01\$
1282	1259	.273958+01	-.752694+01	.307500+01\$
1283	1260	.139092+01	-.788831+01	.307500+01\$
1284	1261	.127305-06	-.801000+01	.307500+01\$
1285	1262	-.139092+01	-.788831+01	.307500+01\$
1286	1263	-.273958+01	-.752694+01	.307500+01\$
1287	1264	-.349952+01	-.717507+01	.314100+01\$
1288	1265	-.479336+01	-.602608+01	.386800+01\$
1289	1266	-.601900+01	-.487409+01	.373600+01\$
1290	1267	-.694552+01	-.401000+01	.304200+01\$
1291	1268	-.752694+01	-.273958+01	.307500+01\$
1292	1269	-.774192+01	-.108806+01	.355000+01\$
1293	1270	.748454+01	-.131973+01	.410000+01\$
1294	1271	.714166+01	-.259935+01	.410000+01\$
1295	1272	.659179+01	-.380000+01	.410000+01\$
1296	1273	.582194+01	-.488519+01	.410000+01\$
1297	1274	.488519+01	-.582194+01	.410000+01\$
1298	1275	.380000+01	-.658179+01	.410000+01\$
1299	1276	.259935+01	-.714166+01	.410000+01\$
1300	1277	.131973+01	-.748454+01	.410000+01\$
1301	1278	.120789-06	-.760000+01	.410000+01\$
1302	1279	-.131973+01	-.748454+01	.410000+01\$
1303	1280	-.259935+01	-.714166+01	.410000+01\$
1304	1281	-.380000+01	-.658179+01	.410000+01\$
1305	1282	-.488519+01	-.582194+01	.410000+01\$
1306	1283	-.582194+01	-.488519+01	.410000+01\$
1307	1284	-.658179+01	-.380000+01	.410000+01\$
1308	1285	-.714166+01	-.259935+01	.410000+01\$
1309	1286	-.748454+01	-.131973+01	.410000+01\$
1310	1287	.694289+01	-.122422+01	.508000+01\$

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1311	1288	.662483+01	-.241124+01	.508000+01%
1312	1289	.610548+01	-.352500+01	.508000+01%
1313	1290	.540061+01	-.453165+01	.508000+01%
1314	1291	.453165+01	-.540061+01	.508000+01%
1315	1292	.352500+01	-.610548+01	.508000+01%
1316	1293	.241124+01	-.662483+01	.508000+01%
1317	1294	.122422+01	-.694289+01	.508000+01%
1318	1295	.112047-06	-.705000+01	.508000+01%
1319	1296	-.122422+01	-.694289+01	.508000+01%
1320	1297	-.241124+01	-.662483+01	.508000+01%
1321	1298	-.352500+01	-.610548+01	.508000+01%
1322	1299	-.453165+01	-.540061+01	.508000+01%
1323	1300	-.540061+01	-.453165+01	.508000+01%
1324	1301	-.610548+01	-.352500+01	.508000+01%
1325	1302	-.662483+01	-.241124+01	.508000+01%
1326	1303	-.694289+01	-.122422+01	.508000+01%
1327	1304	.505759+01	-.292000+01	.508000+01%
1328	1305	.292000+01	-.505759+01	.508000+01%
1329	1306	.928166-07	-.584000+01	.508000+01%
1330	1307	-.292000+01	-.505759+01	.508000+01%
1331	1308	-.505759+01	-.292000+01	.508000+01%
1332	1309	.505759+01	-.292000+01	.670000+01%
1333	1310	.292000+01	-.505759+01	.670000+01%
1334	1311	.928166-07	-.584000+01	.670000+01%
1335	1312	-.292000+01	-.505759+01	.670000+01%
1336	1313	-.505759+01	-.292000+01	.670000+01%
1337	1314	.515285+01	-.297500+01	.942000+01%
1338	1315	.297500+01	-.515285+01	.942000+01%
1339	1316	.945649-07	-.595000+01	.942000+01%
1340	1317	-.297500+01	-.515285+01	.942000+01%
1341	1318	-.515285+01	-.297500+01	.942000+01%
1342	1319	.515285+01	-.297500+01	.113500+02%
1343	1320	.297500+01	-.515285+01	.113500+02%
1344	1321	.945649-07	-.595000+01	.113500+02%
1345	1322	-.297500+01	-.515285+01	.113500+02%
1346	1323	-.515285+01	-.297500+01	.113500+02%
1347	1324	.505759+01	-.292000+01	.119600+02%
1348	1325	.292000+01	-.505759+01	.119600+02%
1349	1326	.928166-07	-.584000+01	.119600+02%
1350	1327	-.292000+01	-.505759+01	.119600+02%
1351	1328	-.505759+01	-.292000+01	.119600+02%
1352	1329	.359401+01	-.207500+01	.128100+02%
1353	1330	.207500+01	-.359401+01	.128100+02%
1354	1331	.659570-07	-.415000+01	.128100+02%
1355	1332	-.207500+01	-.359401+01	.128100+02%
1356	1333	-.359401+01	-.207500+01	.128100+02%
1357	1334	.209578+01	-.121000+01	.136500+02%
1358	1335	.121000+01	-.209578+01	.136500+02%
1359	1336	.384617-07	-.242000+01	.136500+02%
1360	1337	-.121000+01	-.209578+01	.136500+02%
1361	1338	-.209578+01	-.121000+01	.136500+02%
1362	1339	.799031+00	-.799031+00	.136500+02%
1363	1340	.179594-07	-.113000+01	.136500+02%
1364	1341	-.799031+00	-.799031+00	.136500+02%
1365	1342	.799031+00	-.799031+00	.141250+02%
1366	1343	.179594-07	-.113000+01	.141250+02%
1367	1344	-.799031+00	-.799031+00	.141250+02%

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1368	1345	.799031+00	-.799031+00	.126000+02s
1369	1346	.179594-07	-.113000+01	.126000+02s
1370	1347	-.799031+00	-.799031+00	.126000+02s
1371	1348	.388909+00	-.388909+00	.113500+02s
1372	1349	-.874129-08	-.550000+00	.113500+02s
1373	1350	-.388909+00	-.388909+00	.113500+02s
1374	1351	.388909+00	-.388909+00	.942000+01s
1375	1352	-.874129-08	-.550000+00	.942000+01s
1376	1353	-.388909+00	-.388909+00	.942000+01s
1377	1354	.318198+01	-.318198+01	.117500+02s
1378	1355	-.715196-07	-.450000+01	.117500+02s
1379	1356	-.318198+01	-.318198+01	.117500+02s
1380	1357	.303109+01	-.175000+01	.113500+02s
1381	1358	.175000+01	-.303109+01	.113500+02s
1382	1359	.556264-07	-.350000+01	.113500+02s
1383	1360	-.175000+01	-.303109+01	.113500+02s
1384	1361	-.303109+01	-.175000+01	.113500+02s
1385	1362	.303109+01	-.175000+01	.942000+01s
1386	1363	.175000+01	-.303109+01	.942000+01s
1387	1364	.556264-07	-.350000+01	.942000+01s
1388	1365	-.175000+01	-.303109+01	.942000+01s
1389	1366	-.303109+01	-.175000+01	.942000+01s
1390	NREF = 4			
1391	1367	.646271+01	-.373125+01	-.763000+01s
1392	1368	-.373125+01	-.646271+01	-.763000+01s
1393	1369	.118603-06	-.746250+01	-.763000+01s
1394	1370	-.373125+01	-.646271+01	-.763000+01s
1395	1371	-.646271+01	-.373125+01	-.763000+01s
1396	1372	.734913+01	-.129585+01	-.663000+01s
1397	1373	.701246+01	-.255233+01	-.663000+01s
1398	1374	.646271+01	-.373125+01	-.663000+01s
1399	1375	.571661+01	-.479680+01	-.663000+01s
1400	1376	.479680+01	-.571661+01	-.663000+01s
1401	1377	.373125+01	-.646271+01	-.663000+01s
1402	1378	.255233+01	-.701246+01	-.663000+01s
1403	1379	-.129585+01	-.734913+01	-.663000+01s
1404	1380	.118603-06	-.746250+01	-.663000+01s
1405	1381	-.129585+01	-.734913+01	-.663000+01s
1406	1382	-.255233+01	-.701246+01	-.663000+01s
1407	1383	-.373125+01	-.646271+01	-.663000+01s
1408	1384	-.479680+01	-.571661+01	-.663000+01s
1409	1385	-.571661+01	-.479680+01	-.663000+01s
1410	1386	-.646271+01	-.373125+01	-.663000+01s
1411	1387	-.701246+01	-.255233+01	-.663000+01s
1412	1388	-.734913+01	-.129585+01	-.663000+01s
1413	1389	.915773+01	-.161475+01	-.476600+01s
1414	1390	.873820+01	-.318045+01	-.476600+01s
1415	1391	.805317+01	-.464950+01	-.476600+01s
1416	1392	.712345+01	-.597728+01	-.476600+01s
1417	1393	.597728+01	-.712345+01	-.476600+01s
1418	1394	.464950+01	-.805317+01	-.476600+01s
1419	1395	.318045+01	-.873820+01	-.476600+01s
1420	1396	.161475+01	-.915773+01	-.476600+01s
1421	1397	.147791-06	-.929900+01	-.476600+01s
1422	1398	-.161475+01	-.915773+01	-.476600+01s
1423	1399	-.318045+01	-.873820+01	-.476600+01s
1424	1400	-.464950+01	-.805317+01	-.476600+01s

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1425	1401	-.597728+01	-.712345+01	-.476600+01
1426	1402	-.712345+01	-.597728+01	-.476600+01
1427	1403	-.805317+01	-.464950+01	-.476600+01
1428	1404	-.873820+01	-.318045+01	-.476600+01
1429	1405	-.915773+01	-.161475+01	-.476600+01
1430	1406	.978603+01	-.172554+01	-.290300+01
1431	1407	.933773+01	-.339865+01	-.290300+01
1432	1408	.860569+01	-.496850+01	-.290300+01
1433	1409	.761218+01	-.638738+01	-.290300+01
1434	1410	.638738+01	-.761218+01	-.290300+01
1435	1411	-.496850+01	-.860569+01	-.290300+01
1436	1412	.339865+01	-.933773+01	-.290300+01
1437	1413	.172554+01	-.978603+01	-.290300+01
1438	1414	.157931-06	-.993700+01	-.290300+01
1439	1415	-.172554+01	-.978603+01	-.290300+01
1440	1416	-.339865+01	-.933773+01	-.290300+01
1441	1417	-.496850+01	-.860569+01	-.290300+01
1442	1418	-.638738+01	-.761218+01	-.290300+01
1443	1419	-.761218+01	-.638738+01	-.290300+01
1444	1420	-.860569+01	-.496850+01	-.290300+01
1445	1421	-.933773+01	-.339865+01	-.290300+01
1446	1422	-.978603+01	-.172554+01	-.290300+01
1447	1423	.995345+01	-.175506+01	-.104000+01
1448	1424	.949747+01	-.345680+01	-.104000+01
1449	1425	.875292+01	-.505350+01	-.104000+01
1450	1426	.774241+01	-.649665+01	-.104000+01
1451	1427	.649665+01	-.774241+01	-.104000+01
1452	1428	.505350+01	-.875292+01	-.104000+01
1453	1429	.345680+01	-.949747+01	-.104000+01
1454	1430	.175506+01	-.995345+01	-.104000+01
1455	1431	.160633-06	-.101070+02	-.104000+01
1456	1432	-.175506+01	-.995345+01	-.104000+01
1457	1433	-.345680+01	-.949747+01	-.104000+01
1458	1434	-.505350+01	-.875292+01	-.104000+01
1459	1435	-.649665+01	-.774241+01	-.104000+01
1460	1436	-.774241+01	-.649665+01	-.104000+01
1461	1437	-.875292+01	-.505350+01	-.104000+01
1462	1438	-.949747+01	-.345680+01	-.104000+01
1463	1439	-.995345+01	-.175506+01	-.104000+01
1464	1440	.101140+02	-.178337+01	.000000 \$
1464	1441	.965064+01	-.351255+01	.000000 \$
1466	1442	.889408+01	-.513500+01	.000000 \$
1467	1443	.786728+01	-.660143+01	.000000 \$
1468	1444	.660143+01	-.786728+01	.000000 \$
1469	1445	.513500+01	-.889408+01	.000000 \$
1470	1446	.351255+01	-.965064+01	.000000 \$
1471	1447	.178337+01	-.101140+02	.000000 \$
1472	1448	.163224-06	-.102700+02	.000000 \$
1473	1449	-.178337+01	-.101140+02	.000000 \$
1474	1450	-.351255+01	-.965064+01	.000000 \$
1475	1451	-.513500+01	-.889408+01	.000000 \$
1476	1452	-.660143+01	-.786728+01	.000000 \$
1477	1453	-.786728+01	-.660143+01	.000000 \$
1478	1454	-.889408+01	-.513500+01	.000000 \$
1479	1455	-.965064+01	-.351255+01	.000000 \$
1480	1456	-.101140+02	-.178337+01	.000000 \$
1481	1457	.986482+01	-.173943+01	.200000+01

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1482	1458	.941290+01	-.342602+01	.200000+01
1483	1459	.867498+01	-.500850+01	.200000+01
1484	1460	.767347+01	-.643880+01	.200000+01
1485	1461	.643880+01	-.767347+01	.200000+01
1486	1462	.500850+01	-.867498+01	.200000+01
1487	1463	.342602+01	-.941290+01	.200000+01
1488	1464	.173943+01	-.986482+01	.200000+01
1489	1465	.159203-06	-.100170+02	.200000+01
1490	1466	.173943+01	-.986482+01	.200000+01
1491	1467	-.342602+01	-.941290+01	.200000+01
1492	1468	-.500850+01	-.867498+01	.200000+01
1493	1469	-.643880+01	-.767347+01	.200000+01
1494	1470	-.767347+01	-.643880+01	.200000+01
1495	1471	-.867498+01	-.500850+01	.200000+01
1496	1472	-.941290+01	-.342602+01	.200000+01
1497	1473	-.986482+01	-.173943+01	.200000+01
1498	1474	.961616+01	-.169559+01	.300000+01
1499	1475	.926214+01	-.362979+01	.226000+01
1500	1476	.846970+01	-.500897+01	.270000+01
1501	1477	.748004+01	-.627650+01	.300000+01
1502	1478	.627650+01	-.748004+01	.300000+01
1503	1479	.488225+01	-.845630+01	.300000+01
1504	1480	.333966+01	-.917563+01	.300000+01
1505	1481	.169559+01	-.961616+01	.300000+01
1506	1482	.155190-06	-.976450+01	.300000+01
1507	1483	-.169559+01	-.961616+01	.300000+01
1508	1484	-.333966+01	-.917563+01	.300000+01
1509	1485	-.488225+01	-.845631+01	.300000+01
1510	1486	-.627650+01	-.748004+01	.300000+01
1511	1487	-.748004+01	-.627650+01	.300000+01
1512	1488	-.845630+01	-.488225+01	.300000+01
1513	1489	-.917563+01	-.333966+01	.300000+01
1514	1490	-.961616+01	-.169559+01	.300000+01
1515	1491	.926250+01	-.126880+01	.410000+01
1516	1492	.951806+01	-.217993+01	.300000+01
1517	1493	.749684+01	-.589943+01	.362000+01
1518	1494	.604220+01	-.720082+01	.400000+01
1519	1495	.470000+01	-.814064+01	.400000+01
1520	1496	.321499+01	-.883311+01	.400000+01
1521	1497	.163229+01	-.925719+01	.400000+01
1522	1498	.149397-06	-.940000+01	.400000+01
1523	1499	-.163229+01	-.925719+01	.400000+01
1524	1500	-.321499+01	-.883311+01	.400000+01
1525	1501	-.470000+01	-.814064+01	.400000+01
1526	1502	-.604220+01	-.720082+01	.400000+01
1527	1503	-.720082+01	-.604220+01	.400000+01
1528	1504	-.814064+01	-.470000+01	.400000+01
1529	1505	-.883311+01	-.321499+01	.400000+01
1530	1506	-.925719+01	-.163229+01	.400000+01
1531	1507	.865074+01	-.924497+00	.529000+01
1532	1508	.633236+01	-.644386+01	.474000+01
1533	1509	.571438+01	-.681014+01	.503000+01
1534	1510	.444500+01	-.769897+01	.503000+01
1535	1511	.304056+01	-.835387+01	.503000+01
1536	1512	.154373+01	-.875494+01	.503000+01
1537	1513	.141291-06	-.889000+01	.503000+01
1538	1514	-.154373+01	-.875494+01	.503000+01

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1539	1515	-.304056+01	-.835387+01	.503000+01
1540	1516	-.444500+01	-.769897+01	.503000+01
1541	1517	-.571438+01	-.681014+01	.503000+01
1542	1518	-.681014+01	-.571438+01	.503000+01
1543	1519	-.769897+01	-.444500+01	.503000+01
1544	1520	-.835387+01	-.304056+01	.503000+01
1545	1521	-.875494+01	-.154373+01	.503000+01
1546	1522	.776876+01	-.125826+01	.643300+01
1547	1523	.581755+01	-.591998+01	.588600+01
1548	1524	.528500+0	-.629842+01	.600000+01
1549	1525	.411100+01	-.712046+01	.600000+01
1550	1526	.281209+01	-.772615+01	.600000+01
1551	1527	.142774+01	-.809709+01	.600000+01
1552	1528	.130674-06	-.822200+01	.600000+01
1553	1529	-.142774+01	-.809709+01	.600000+01
1554	1530	-.281209+01	-.772615+01	.600000+01
1555	1531	-.411100+01	-.712046+01	.600000+01
1556	1532	-.528500+01	-.629842+01	.600000+01
1557	1533	-.629842+01	-.528500+01	.600000+01
1558	1534	-.712046+01	-.411100+01	.600000+01
1559	1535	-.772615+01	-.281209+01	.600000+01
1560	1536	-.809709+01	-.142774+01	.600000+01
1561	1537	-.731220+01	-.128934+01	.700000+01
1562	1538	.672635+01	-.218552+01	.730000+01
1563	1539	.581114+01	-.360306+01	.750000+01
1564	1540	.555240+01	-.492965+01	.700000+01
1565	1541	.477270+01	-.568788+01	.700000+01
1566	1542	.371250+01	-.643024+01	.700000+01
1567	1543	.253950+01	-.697722+01	.700000+01
1568	1544	.128934+01	-.731220+01	.700000+01
1569	1545	.118007-06	-.742500+01	.700000+01
1570	1546	-.128934+01	-.731220+01	.700000+01
1571	1547	-.253950+01	-.697722+01	.700000+01
1572	1548	-.371250+01	-.643024+01	.700000+01
1573	1549	-.477270+01	-.568788+01	.700000+01
1574	1550	-.568788+01	-.477270+01	.700000+01
1575	1551	-.643024+01	-.371250+01	.700000+01
1576	1552	-.697722+01	-.253950+01	.700000+01
1577	1553	-.731220+01	-.128934+01	.700000+01
1578	1554	.615505+01	-.108530+01	.800000+01
1579	1555	.587308+01	-.213763+01	.800000+01
1580	1556	.541266+01	-.312500+01	.800000+01
1581	1557	.478778+01	-.401742+01	.800000+01
1582	1558	.401742+01	-.478778+01	.800000+01
1583	1559	.312500+01	-.541266+01	.800000+01
1584	1560	.213763+01	-.587308+01	.800000+01
1585	1561	.108530+01	-.615505+01	.800000+01
1586	1562	.993328-07	-.625000+01	.800000+01
1587	1563	-.108530+01	-.615505+01	.800000+01
1588	1564	-.213763+01	-.587308+01	.800000+01
1589	1565	-.312500+01	-.541266+01	.800000+01
1590	1566	-.401742+01	-.478778+01	.800000+01
1591	1567	-.478778+01	-.401742+01	.800000+01
1592	1568	-.541266+01	-.312500+01	.800000+01
1593	1569	-.587308+01	-.213763+01	.800000+01
1594	1570	-.615505+01	-.108530+01	.800000+01
1595	1571	.546568+01	-.963747+00	.850000+01

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1596	1572	.521529+01	-.189821+01	.850000+01
1597	1573	.480644+01	-.277500+01	.850000+01
1598	1574	.425155+01	-.356747+01	.850000+01
1599	1575	.356747+01	-.425155+01	.850000+01
1600	1576	.277500+01	-.480644+01	.850000+01
1601	1577	.189821+01	-.521529+01	.850000+01
1602	1578	.963797+00	-.546568+01	.850000+01
1603	1579	.882076-07	-.555000+01	.850000+01
1604	1580	-.963747+00	-.546568+01	.850000+01
1605	1581	-.189821+01	-.521529+01	.850000+01
1606	1582	-.277500+01	-.480644+01	.850000+01
1607	1583	-.356747+01	-.425155+01	.850000+01
1608	1584	-.425155+01	-.356747+01	.850000+01
1609	1585	-.480644+01	-.277500+01	.850000+01
1610	1586	-.521529+01	-.189821+01	.850000+01
1611	1587	-.546568+01	-.963748+00	.850000+01
1612	1588	.494975+00	-.494975+00	.158500+02
1613	1589	.111253-07	-.700000+00	.158500+02
1614	1590	-.494975+00	-.494975+00	.158500+02
1615	1591	.138564+01	-.800000+00	.152500+02
1616	1592	.800000+00	-.138564+01	.152500+02
1617	1593	.254292-07	-.160000+01	.152500+02
1618	1594	-.800000+00	-.138564+01	.152500+02
1619	1595	-.138564+01	-.800000+00	.152500+02
1620	1596	.190526+01	-.110000+01	.152500+02
1621	1597	.110000+01	-.190526+01	.152500+02
1622	1598	.342946-07	-.220000+01	.152500+02
1623	1599	-.110000+01	-.190526+01	.152500+02
1624	1600	-.190526+01	-.110000+01	.152500+02
1625	1601	.342946+01	-.198000+01	.139000+02
1626	1602	.198000+01	-.342946+01	.139000+02
1627	1603	.629373-07	-.396000+01	.139000+02
1628	1604	-.198000+01	-.342946+01	.139000+02
1629	1605	-.342946+01	-.198000+01	.139000+02
1630	1606	.379925+01	-.219350+01	.137550+02
1631	1607	.219350+01	-.379925+01	.137550+02
1632	1608	.627237-07	-.438700+01	.137550+02
1633	1609	-.219350+01	-.379925+01	.137550+02
1634	1610	-.379925+01	-.219350+01	.137550+02
1635	1611	.494975+00	-.494975+00	.147000+02
1636	1612	.111253-07	-.700000+00	.147000+02
1637	1613	-.494975+00	-.494975+00	.147000+02
1638	1614	.138564+01	-.800000+00	.144500+02
1639	1615	.800000+00	-.138564+01	.144500+02
1640	1616	.254292-07	-.160000+01	.144500+02
1641	1617	-.800000+00	-.138564+01	.144500+02
1642	1618	-.138564+01	-.800000+00	.144500+02
1643	1619	.285788+01	-.165000+01	.140000+02
1644	1620	.165000+01	-.285788+01	.140000+02
1645	1621	.524477-07	-.330000+01	.140000+02
1646	1622	-.165000+01	-.285788+01	.140000+02
1647	1623	-.285788+01	-.165000+01	.140000+02
1648	1624	.494975+00	-.494975+00	.134200+02
1649	1625	.111253-07	-.700000+00	.134200+02
1650	1626	-.494975+00	-.494975+00	.134200+02
1651	1627	.199186+01	-.115000+01	.132000+02
1652	1628	.115000+01	-.199186+01	.132000+02

1653	1629	.365545-07	-.230000+01	.132000+02\$
1654	1630	-.115000+01	-.199186+01	.132000+02\$
1655	1631	-.199186+01	-.115000+01	.132000+02\$
1656	1632	.342946+01	-.198000+01	.136000+02\$
1657	1633	.198000+01	-.342946+01	.136000+02\$
1658	1634	.629373-07	-.396000+01	.136000+02\$
1659	1635	-.198000+01	-.342946+01	.136000+02\$
1660	1636	-.342946+01	-.198000+01	.136000+02\$
1661	1637	.494975+00	-.494975+00	.116550+02\$
1662	1638	.111253-07	-.700000+00	.116550+02\$
1663	1639	-.494975+00	-.494975+00	.116550+02\$
1664	1640	.199186+01	-.115000+01	.116550+02\$
1665	1641	.115000+01	-.199186+01	.116550+02\$
1666	1642	.365545-07	-.230000+01	.116550+02\$
1667	1643	-.115000+01	-.199186+01	.116550+02\$
1668	1644	-.199186+01	-.115000+01	.116550+02\$
1669	1645	.361999+01	-.209000+01	.116550+02\$
1670	1646	.209000+01	-.361999+01	.116550+02\$
1671	1647	.664338-07	-.418000+01	.116550+02\$
1672	1648	-.209000+01	-.361999+01	.116550+02\$
1673	1649	-.361999+01	-.209000+01	.116550+02\$
1674	1650	.352472+01	-.203500+01	.777000+01\$
1675	1651	.203500+01	-.352472+01	.777000+01\$
1676	1652	.646855-07	-.407000+01	.777000+01\$
1677	1653	-.203500+01	-.352472+01	.777000+01\$
1678	1654	-.352472+01	-.203500+01	.777000+01\$
1679	1655	.425218+01	-.245500+01	.777000+01\$
1680	1656	.245500+01	-.425218+01	.777000+01\$
1681	1657	.780359-07	-.491000+01	.777000+01\$
1682	1658	-.245500+01	-.425218+01	.777000+01\$
1683	1659	-.425218+01	-.245500+01	.777000+01\$
1684	1660	.361999+01	-.209000+01	.934500+01\$
1685	1661	.209000+01	-.361999+01	.934500+01\$
1686	1662	.664338-07	-.418000+01	.934500+01\$
1687	1663	-.209000+01	-.361999+01	.934500+01\$
1688	1664	-.361999+01	-.209000+01	.934500+01\$
1689	NRCF = 6			
1690	1665	.476798-07	-.300000+01	.365000+01\$
1691	1666	-.150000+01	-.259808+01	.365000+01\$
1692	1667	-.259808+01	-.150000+01	.365000+01\$
1693	1668	.249848+01	-.144250+01	.496250+01\$
1694	1669	.144250+01	-.249848+01	.496250+01\$
1695	1670	.458520-07	-.288500+01	.496250+01\$
1696	1671	-.144250+01	-.249848+01	.496250+01\$
1697	1672	-.249848+01	-.144250+01	.496250+01\$
1698	1673	.239889+01	-.138500+01	.627500+01\$
1699	1674	.138500+01	-.239889+01	.627500+01\$
1700	1675	.440243-07	-.277000+01	.627500+01\$
1701	1676	-.138500+01	-.239889+01	.627500+01\$
1702	1677	-.239889+01	-.138500+01	.627500+01\$
1703	1678	.229930+01	-.132750+01	.758750+01\$
1704	1679	.132750+01	-.229930+01	.758750+01\$
1705	1680	.421966-07	-.265500+01	.758750+01\$
1706	1681	-.132750+01	-.229930+01	.758750+01\$
1707	1682	-.229930+01	-.132750+01	.758750+01\$
1708	1683	.219970+01	-.127000+01	.890000+01\$
1709	1684	.127000+01	-.219970+01	.890000+01\$

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1710	1685	.403689-07	-.254000*01	.890000*01
1711	1686	-.127000*01	-.219970*01	.890000*01
1712	1687	-.219970*01	-.127000*01	.890000*01
1713	NREF = 5			
1714	1688	.143250*01	-.248116*01	.755000*01
1715	1689	.455342-07	-.286500*01	.755000*01
1716	1690	-.143250*01	-.248116*01	.755000*01
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1718	1692	.248116*01	-.143250*01	.955000*01
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2234		1210	273	274	291 \$
2235		292	1242	1241	1254 \$
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2237		308	309	321	322 \$
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2239		356	424	450	1339 \$
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2242		426	427	454	453 \$
2243		452	1228	1211	1193 \$
2244		1194	1212	1213	1229 \$
2245		1244	1230	293	275 \$
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2253		389	357	358	359 \$
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2255		435	440	445	1335 \$
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2257		421	1338	422	423 \$
2258		1345	436	1346	1347 \$
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2269		1304	411	404	456 \$
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2272		383	376	1330	1348 \$
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2274		1331	413	1332	414 \$
2275		1333	415	416	1349 \$
2276		442	444	1350	443 \$
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2536	982	1555	1554	1596	\$
2537	731	771	1597	1624	\$
2538	1598	1625	1599	1600	\$
2539	737	736	732	735	\$
2540	733	734	1626	775	\$
2541	773	774	772	1556	\$
2542	1557	1541	1558	1542	\$
2543	1573	1543	1526	1511	\$
2544	1495	1477	1458	1459	\$
2545	1460	1478	1479	1496	\$
2546	983	984	985	986	\$
2547	611	1457	1441	1440	\$
2548	571	572	593	592	\$
2549	680	681	663	682	\$
2550	664	1572	1571	699	\$
2551	1632	1601	1627	1637	\$
2552	783	738	776	790	\$
2553	1633	1602	1628	784	\$
2554	739	777	791	1634	\$
2555	1603	1629	1638	1635	\$
2556	1604	1630	1639	1636	\$
2557	1605	1631	789	744	\$
2558	788	743	787	785	\$
2559	786	742	740	741	\$
2560	782	794	781	793	\$
2561	780	778	779	742	\$
2562	1606	1645	1640	1574	\$
2563	1575	1559	1576	1560	\$
2564	1660	1655	1650	1561	\$

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2565	1544	1527	1512	1497	\$
2566	1480	1461	1442	1425	\$
2567	1443	1444	1462	1463	\$
2568	1481	665	646	629	\$
2569	612	594	573	552	\$
2570	1424	1423	533	553	\$
2571	554	574	575	745	\$
2572	802	795	700	701	\$
2573	683	702	684	823	\$
2574	816	809	1607	1641	\$
2575	746	796	1608	1642	\$
2576	747	797	1609	1643	\$
2577	1610	1644	751	801	\$
2578	750	749	748	800	\$
2579	799	798	1661	1646	\$
2580	1656	1577	1578	1651	\$
2581	1579	1562	1545	1528	\$
2582	1513	1498	1482	1464	\$
2583	1445	1426	1407	1408	\$
2584	1409	1427	1428	1446	\$
2585	1447	1465	666	647	\$
2586	630	613	595	576	\$
2587	555	534	1406	1390	\$
2588	1389	514	515	535	\$
2589	536	556	685	587	\$
2590	824	803	817	703	\$
2591	704	810	1647	1652	\$
2592	804	811	1648	1653	\$
2593	805	812	1649	1654	\$
2594	808	807	806	815	\$
2595	813	814	1662	1657	\$
2596	1580	1563	1546	1529	\$
2597	1514	1499	1483	1466	\$
2598	1448	1429	1410	1391	\$
2599	1374	1392	1393	1411	\$
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2601	686	667	648	631	\$
2602	614	596	577	558	\$
2603	537	516	495	1373	\$
2604	1372	476	496	497	\$
2605	517	518	538	705	\$
2606	539	825	818	1663	\$
2607	1658	826	819	1664	\$
2608	1659	827	820	829	\$
2609	822	828	821	1581	\$
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2615	1433	687	668	649	\$
2616	632	615	597	578	\$
2617	559	540	519	498	\$
2618	77	469	478	479	\$
2619	499	500	520	521	\$
2620	1582	707	1583	708	\$
2621	1584	709	1585	710	\$

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OF POOR QUALITY

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2623	717	713	716	715	\$
2624	714	1565	1548	1531	\$
2625	1516	1501	1485	1468	\$
2626	1451	1434	688	1416	\$
2627	1397	1378	1368	1379	\$
2628	1380	1398	1399	1417	\$
2629	669	650	633	616	\$
2630	598	579	560	541	\$
2631	522	501	480	470	\$
2632	481	482	502	503	\$
2633	1566	689	1567	690	\$
2634	1568	691	1569	692	\$
2635	1570	693	698	674	\$
2636	697	695	696	1549	\$
2637	1532	1517	1502	1486	\$
2638	1469	1452	1435	1418	\$
2639	670	1400	1381	1369	\$
2640	1382	1383	1401	651	\$
2641	634	617	599	580	\$
2642	561	542	523	504	\$
2643	483	471	484	485	\$
2644	1550	671	1551	672	\$
2645	1552	673	1553	674	\$
2646	679	675	678	676	\$
2647	677	1533	1518	1503	\$
2648	1487	1470	1453	1436	\$
2649	1419	1402	652	1364	\$
2650	1370	1385	635	618	\$
2651	600	581	562	543	\$
2652	524	505	486	472	\$
2653	1534	653	1535	654	\$
2654	1536	655	660	656	\$
2655	659	657	658	1519	\$
2656	1504	1488	1471	1454	\$
2657	1437	1420	1403	1386	\$
2658	636	1371	619	601	\$
2659	582	475	563	544	\$
2660	525	474	506	473	\$
2661	487	1520	637	1521	\$
2662	638	643	639	642	\$
2663	640	641	1505	1489	\$
2664	1472	1455	1438	1421	\$
2665	1404	1387	620	1388	\$
2666	602	494	583	493	\$
2667	564	492	545	491	\$
2668	526	507	490	469	\$
2669	488	1506	621	626	\$
2670	622	625	623	624	\$
2671	1490	1473	1456	1439	\$
2672	1422	1405	603	513	\$
2673	584	512	565	511	\$
2674	546	510	527	509	\$
2675	508	608	604	607	\$
2676	605	606	589	570	\$
2677	551	532	585	531	\$
2678	566	530	547	529	\$

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OF POOR QUALITY

2679	528	588	586	587	8
2680	569	550	567	549	8
2681	548	568			
2682	CON=1				
2683	ZERO 6				
2684	179 : 211				
2685	SA				
2686	FORMAT=1: NMAT=	1:	1		.14500*01
2687	FORMAT=1: NMAT=	1:	2		.10000*01
2688	FORMAT=1: NMAT=	1:	3		.15000*01
2689	FORMAT=1: NMAT=	1:	4		.80000*00
2690	FORMAT=1: NMAT=	1:	5		.20000*01
2691	FORMAT=1: NMAT=	1:	6		.60000*00
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2695	FORMAT=1: NMAT=	1:	10		.70000*00
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2710	FORMAT=1: NMAT=	1:	25		.10000*01
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2733	E43				
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2735	NMAT= 1: NSECT=	1:	NNSW=	0:	3 4 16

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2736	NMAT= 1: NSECT= 1: NNSW= 0:	4	5	19	18
2737	NMAT= 1: NSECT= 1: NNSW= 0:	5	6	22	21
2738	NMAT= 1: NSECT= 1: NNSW= 0:	6	7	25	24
2739	NMAT= 1: NSECT= 2: NNSW= 0:	14	15	32	31
2740	NMAT= 1: NSECT= 2: NNSW= 0:	32	33	48	47
2741	NMAT= 1: NSECT= 2: NNSW= 0:	47	48	62	61
2742	NMAT= 1: NSECT= 2: NNSW= 0:	61	62	75	74
2743	NMAT= 1: NSECT= 2: NNSW= 0:	74	75	92	91
2744	NMAT= 1: NSECT= 2: NNSW= 0:	90	91	110	109
2745	NMAT= 1: NSECT= 6: NNSW= 0:	15	16	33	32
2746	NMAT= 1: NSECT= 6: NNSW= 0:	16	17	34	33
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2753	NMAT= 1: NSECT= 4: NNSW= 0:	93	94	113	112
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2757	NMAT= 1: NSECT= 4: NNSW= 0:	97	98	117	116
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2761	NMAT= 1: NSECT= 9: NNSW= 0:	79	80	97	96
2762	NMAT= 1: NSECT= 9: NNSW= 0:	63	64	77	76
2763	NMAT= 1: NSECT= 9: NNSW= 0:	64	65	78	77
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2765	NMAT= 1: NSECT= 9: NNSW= 0:	66	67	80	79
2766	NMAT= 1: NSECT= 9: NNSW= 0:	49	50	64	63
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2769	NMAT= 1: NSECT= 9: NNSW= 0:	52	53	67	66
2770	NMAT= 1: NSECT= 8: NNSW= 0:	34	35	50	49
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2788	NMAT= 1: NSECT= 3: NNSW= 0:	110	111	130	129
2789	NMAT= 1: NSECT= 3: NNSW= 0:	111	112	131	130
2790	NMAT= 1: NSECT= 3: NNSW= 0:	112	113	132	131
2791	NMAT= 1: NSECT= 3: NNSW= 0:	113	114	133	132
2792	NMAT= 1: NSECT= 3: NNSW= 0:	114	115	134	133

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2864	NMAT=	1:	NSECT=	11:	NNSW=	0:	229	230	238	237
2865	NMAT=	1:	NSECT=	11:	NNSW=	0:	230	231	241	240
2866	NMAT=	1:	NSECT=	11:	NNSW=	0:	231	232	244	243
2867	NMAT=	1:	NSECT=	11:	NNSW=	0:	232	233	247	246
2868	NMAT=	1:	NSECT=	11:	NNSW=	0:	233	234	250	249
2869	NMAT=	1:	NSECT=	11:	NNSW=	0:	234	235	253	252
2870	NMAT=	1:	NSECT=	11:	NNSW=	0:	236	237	256	255
2871	NMAT=	1:	NSECT=	11:	NNSW=	0:	256	257	275	274
2872	NMAT=	1:	NSECT=	11:	NNSW=	0:	274	275	291	290
2873	NMAT=	1:	NSECT=	11:	NNSW=	0:	290	291	306	305
2874	NMAT=	1:	NSECT=	11:	NNSW=	0:	305	306	321	320
2875	NMAT=	1:	NSECT=	11:	NNSW=	0:	304	305	320	319
2876	NMAT=	1:	NSECT=	4:	NNSW=	0:	237	238	257	256
2877	NMAT=	1:	NSECT=	4:	NNSW=	0:	238	239	258	257
2878	NMAT=	1:	NSECT=	4:	NNSW=	0:	239	240	259	258
2879	NMAT=	1:	NSECT=	4:	NNSW=	0:	240	241	260	259
2880	NMAT=	1:	NSECT=	4:	NNSW=	0:	241	242	261	260
2881	NMAT=	1:	NSECT=	4:	NNSW=	0:	242	243	262	261
2882	NMAT=	1:	NSECT=	4:	NNSW=	0:	243	244	263	262
2883	NMAT=	1:	NSECT=	4:	NNSW=	0:	244	245	264	263
2884	NMAT=	1:	NSECT=	4:	NNSW=	0:	245	246	265	264
2885	NMAT=	1:	NSECT=	12:	NNSW=	0:	257	258	276	275
2886	NMAT=	1:	NSECT=	12:	NNSW=	0:	258	259	277	276
2887	NMAT=	1:	NSECT=	12:	NNSW=	0:	259	260	278	277
2888	NMAT=	1:	NSECT=	12:	NNSW=	0:	260	261	279	278
2889	NMAT=	1:	NSECT=	12:	NNSW=	0:	261	262	280	279
2890	NMAT=	1:	NSECT=	12:	NNSW=	0:	262	263	281	280
2891	NMAT=	1:	NSECT=	12:	NNSW=	0:	263	264	282	281
2892	NMAT=	1:	NSECT=	12:	NNSW=	0:	264	265	283	282
2893	NMAT=	1:	NSECT=	12:	NNSW=	0:	276	277	293	292
2894	NMAT=	1:	NSECT=	12:	NNSW=	0:	277	278	294	293
2895	NMAT=	1:	NSECT=	12:	NNSW=	0:	278	279	295	294
2896	NMAT=	1:	NSECT=	12:	NNSW=	0:	279	280	296	295
2897	NMAT=	1:	NSECT=	12:	NNSW=	0:	280	281	297	296
2898	NMAT=	1:	NSECT=	12:	NNSW=	0:	281	282	298	297
2899	NMAT=	1:	NSECT=	12:	NNSW=	0:	282	283	299	298
2900	NMAT=	1:	NSECT=	12:	NNSW=	0:	292	293	308	307
2901	NMAT=	1:	NSECT=	12:	NNSW=	0:	293	294	309	308
2902	NMAT=	1:	NSECT=	12:	NNSW=	0:	294	295	310	309
2903	NMAT=	1:	NSECT=	12:	NNSW=	0:	295	296	311	310
2904	NMAT=	1:	NSECT=	12:	NNSW=	0:	296	297	312	311
2905	NMAT=	1:	NSECT=	12:	NNSW=	0:	297	298	313	312
2906	NMAT=	1:	NSECT=	12:	NNSW=	0:	298	299	314	313

ORIGINAL PAGE IS
OF POOR QUALITY

2907	NMAT= 1: NSECT= 13: NNSW= 0:	306	307	322	321
2908	NMAT= 1: NSECT= 13: NNSW= 0:	307	308	323	322
2909	NMAT= 1: NSECT= 13: NNSW= 0:	308	309	324	323
2910	NMAT= 1: NSECT= 13: NNSW= 0:	309	310	325	324
2911	NMAT= 1: NSECT= 13: NNSW= 0:	310	311	326	325
2912	NMAT= 1: NSECT= 13: NNSW= 0:	311	312	327	326
2913	NMAT= 1: NSECT= 13: NNSW= 0:	312	313	328	327
2914	NMAT= 1: NSECT= 13: NNSW= 0:	313	314	329	328
2915	NMAT= 1: NSECT= 14: NNSW= 0:	320	321	339	338
2916	NMAT= 1: NSECT= 14: NNSW= 0:	321	322	340	339
2917	NMAT= 1: NSECT= 14: NNSW= 0:	322	323	341	340
2918	NMAT= 1: NSECT= 14: NNSW= 0:	323	324	342	341
2919	NMAT= 1: NSECT= 14: NNSW= 0:	324	325	343	342
2920	NMAT= 1: NSECT= 14: NNSW= 0:	325	326	344	343
2921	NMAT= 1: NSECT= 14: NNSW= 0:	326	327	345	344
2922	NMAT= 1: NSECT= 14: NNSW= 0:	327	328	346	345
2923	NMAT= 1: NSECT= 14: NNSW= 0:	328	329	347	346
2924	NMAT= 1: NSECT= 14: NNSW= 0:	329	330	348	347
2925	NMAT= 1: NSECT= 10: NNSW= 0:	255	256	274	273
2926	NMAT= 1: NSECT= 10: NNSW= 0:	275	276	292	291
2927	NMAT= 1: NSECT= 10: NNSW= 0:	291	292	307	306
2928	NMAT= 1: NSECT= 10: NNSW= 0:	319	320	338	337
2929	NMAT= 1: NSECT= 10: NNSW= 0:	314	315	330	329
2930	NMAT= 1: NSECT= 10: NNSW= 0:	354	355	374	373
2931	NMAT= 1: NSECT= 8: NNSW= 0:	273	274	290	289
2932	NMAT= 1: NSECT= 8: NNSW= 0:	289	290	305	304
2933	NMAT= 1: NSECT= 8: NNSW= 0:	348	349	368	367
2934	NMAT= 1: NSECT= 8: NNSW= 0:	349	350	369	368
2935	NMAT= 1: NSECT= 8: NNSW= 0:	350	351	370	369
2936	NMAT= 1: NSECT= 8: NNSW= 0:	351	352	371	370
2937	NMAT= 1: NSECT= 8: NNSW= 0:	352	353	372	371
2938	NMAT= 1: NSECT= 8: NNSW= 0:	353	354	373	372
2939	NMAT= 1: NSECT= 6: NNSW= 0:	251	252	271	270
2940	NMAT= 1: NSECT= 2: NNSW= 0:	270	271	287	286
2941	NMAT= 1: NSECT= 15: NNSW= 0:	337	338	357	356
2942	NMAT= 1: NSECT= 15: NNSW= 0:	338	339	358	357
2943	NMAT= 1: NSECT= 15: NNSW= 0:	339	340	359	358
2944	NMAT= 1: NSECT= 15: NNSW= 0:	340	341	360	359
2945	NMAT= 1: NSECT= 15: NNSW= 0:	341	342	361	360
2946	NMAT= 1: NSECT= 15: NNSW= 0:	342	343	362	361
2947	NMAT= 1: NSECT= 15: NNSW= 0:	343	344	363	362
2948	NMAT= 1: NSECT= 15: NNSW= 0:	344	345	364	363
2949	NMAT= 1: NSECT= 15: NNSW= 0:	345	346	365	364
2950	NMAT= 1: NSECT= 15: NNSW= 0:	346	347	366	365
2951	NMAT= 1: NSECT= 15: NNSW= 0:	347	348	367	366
2952	NMAT= 1: NSECT= 11: NNSW= 0:	229	1171	1177	1176
2953	NMAT= 1: NSECT= 11: NNSW= 0:	1171	1172	1180	1179
2954	NMAT= 1: NSECT= 11: NNSW= 0:	1172	1173	1183	1182
2955	NMAT= 1: NSECT= 11: NNSW= 0:	1173	1174	1186	1185
2956	NMAT= 1: NSECT= 11: NNSW= 0:	1174	1175	1189	1188
2957	NMAT= 1: NSECT= 11: NNSW= 0:	1175	235	1192	1191
2958	NMAT= 1: NSECT= 11: NNSW= 0:	236	1176	1193	255
2959	NMAT= 1: NSECT= 11: NNSW= 0:	1193	1194	1211	1210
2960	NMAT= 1: NSECT= 11: NNSW= 0:	1210	1211	1226	1225
2961	NMAT= 1: NSECT= 11: NNSW= 0:	1225	1226	1240	1239
2962	NMAT= 1: NSECT= 11: NNSW= 0:	1239	1240	1254	1253
2963	NMAT= 1: NSECT= 11: NNSW= 0:	304	1239	1253	319

ORIGINAL PARTS
OF POOR QUALITY

2964	NMAT=	1:	NSECT=	4:	NNSW=	0:	1176	1177	1194	1193
2965	NMAT=	1:	NSECT=	4:	NNSW=	0:	1177	1178	1195	1194
2966	NMAT=	1:	NSECT=	4:	NNSW=	0:	1178	1179	1196	1195
2967	NMAT=	1:	NSECT=	4:	NNSW=	0:	1179	1180	1197	1196
2968	NMAT=	1:	NSECT=	4:	NNSW=	0:	1180	1181	1198	1197
2969	NMAT=	1:	NSECT=	4:	NNSW=	0:	1181	1182	1199	1198
2970	NMAT=	1:	NSECT=	4:	NNSW=	0:	1182	1183	1200	1199
2971	NMAT=	1:	NSECT=	4:	NNSW=	0:	1183	1184	1201	1200
2972	NMAT=	1:	NSECT=	4:	NNSW=	0:	1184	1185	1202	1201
2973	NMAT=	1:	NSECT=	12:	NNSW=	0:	1194	1195	1212	1211
2974	NMAT=	1:	NSECT=	12:	NNSW=	0:	1195	1196	1213	1212
2975	NMAT=	1:	NSECT=	12:	NNSW=	0:	1196	1197	1214	1213
2976	NMAT=	1:	NSECT=	12:	NNSW=	0:	1197	1198	1215	1214
2977	NMAT=	1:	NSECT=	12:	NNSW=	0:	1198	1199	1216	1215
2978	NMAT=	1:	NSECT=	12:	NNSW=	0:	1199	1200	1217	1216
2979	NMAT=	1:	NSECT=	12:	NNSW=	0:	1200	1201	1218	1217
2980	NMAT=	1:	NSECT=	12:	NNSW=	0:	1201	1202	1219	1218
2981	NMAT=	1:	NSECT=	12:	NNSW=	0:	1212	1213	1228	1227
2982	NMAT=	1:	NSECT=	12:	NNSW=	0:	1213	1214	1229	1228
2983	NMAT=	1:	NSECT=	12:	NNSW=	0:	1214	1215	1230	1229
2984	NMAT=	1:	NSECT=	12:	NNSW=	0:	1215	1216	1231	1230
2985	NMAT=	1:	NSECT=	12:	NNSW=	0:	1216	1217	1232	1231
2986	NMAT=	1:	NSECT=	12:	NNSW=	0:	1217	1218	1233	1232
2987	NMAT=	1:	NSECT=	12:	NNSW=	0:	1218	1219	1234	1233
2988	NMAT=	1:	NSECT=	12:	NNSW=	0:	1227	1228	1242	1241
2989	NMAT=	1:	NSECT=	12:	NNSW=	0:	1228	1229	1243	1242
2990	NMAT=	1:	NSECT=	12:	NNSW=	0:	1229	1230	1244	1243
2991	NMAT=	1:	NSECT=	12:	NNSW=	0:	1230	1231	1245	1244
2992	NMAT=	1:	NSECT=	12:	NNSW=	0:	1231	1232	1246	1245
2993	NMAT=	1:	NSECT=	12:	NNSW=	0:	1232	1233	1247	1246
2994	NMAT=	1:	NSECT=	12:	NNSW=	0:	1233	1234	1248	1247
2995	NMAT=	1:	NSECT=	13:	NNSW=	0:	1240	1241	1255	1254
2996	NMAT=	1:	NSECT=	13:	NNSW=	0:	1241	1242	1256	1255
2997	NMAT=	1:	NSECT=	13:	NNSW=	0:	1242	1243	1257	1256
2998	NMAT=	1:	NSECT=	13:	NNSW=	0:	1243	1244	1258	1257
2999	NMAT=	1:	NSECT=	13:	NNSW=	0:	1244	1245	1259	1258
3000	NMAT=	1:	NSECT=	13:	NNSW=	0:	1245	1246	1260	1259
3001	NMAT=	1:	NSECT=	13:	NNSW=	0:	1246	1247	1261	1260
3002	NMAT=	1:	NSECT=	13:	NNSW=	0:	1247	1248	1262	1261
3003	NMAT=	1:	NSECT=	14:	NNSW=	0:	1253	1254	1271	1270
3004	NMAT=	1:	NSECT=	14:	NNSW=	0:	1254	1255	1272	1271
3005	NMAT=	1:	NSECT=	14:	NNSW=	0:	1255	1256	1273	1272
3006	NMAT=	1:	NSECT=	14:	NNSW=	0:	1256	1257	1274	1273
3007	NMAT=	1:	NSECT=	14:	NNSW=	0:	1257	1258	1275	1274
3008	NMAT=	1:	NSECT=	14:	NNSW=	0:	1258	1259	1276	1275
3009	NMAT=	1:	NSECT=	14:	NNSW=	0:	1259	1260	1277	1276
3010	NMAT=	1:	NSECT=	14:	NNSW=	0:	1260	1261	1278	1277
3011	NMAT=	1:	NSECT=	14:	NNSW=	0:	1261	1262	1279	1278
3012	NMAT=	1:	NSECT=	14:	NNSW=	0:	1262	1263	1280	1279
3013	NMAT=	1:	NSECT=	10:	NNSW=	0:	255	1193	1210	273
3014	NMAT=	1:	NSECT=	10:	NNSW=	0:	1211	1212	1227	1226
3015	NMAT=	1:	NSECT=	10:	NNSW=	0:	1226	1227	1241	1240
3016	NMAT=	1:	NSECT=	10:	NNSW=	0:	319	1253	1270	337
3017	NMAT=	1:	NSECT=	10:	NNSW=	0:	1248	1249	1263	1262
3018	NMAT=	1:	NSECT=	10:	NNSW=	0:	1286	355	374	1303
3019	NMAT=	1:	NSECT=	8:	NNSW=	0:	273	1210	1225	289
3020	NMAT=	1:	NSECT=	8:	NNSW=	0:	289	1225	1239	304

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3021	NMAT= 1: NSECT= 8: NNSW= 0:	1280	1281	1298	1297
3022	NMAT= 1: NSECT= 8: NNSW= 0:	1281	1282	1299	1298
3023	NMAT= 1: NSECT= 8: NNSW= 0:	1282	1283	1300	1299
3024	NMAT= 1: NSECT= 8: NNSW= 0:	1283	1284	1301	1300
3025	NMAT= 1: NSECT= 8: NNSW= 0:	1284	1285	1302	1301
3026	NMAT= 1: NSECT= 8: NNSW= 0:	1285	1286	1303	1302
3027	NMAT= 1: NSECT= 6: NNSW= 0:	1190	1191	1208	1207
3028	NMAT= 1: NSECT= 2: NNSW= 0:	1207	1208	1223	1222
3029	NMAT= 1: NSECT= 15: NNSW= 0:	337	1270	1287	356
3030	NMAT= 1: NSECT= 15: NNSW= 0:	1270	1271	1288	1287
3031	NMAT= 1: NSECT= 15: NNSW= 0:	1271	1272	1289	1288
3032	NMAT= 1: NSECT= 15: NNSW= 0:	1272	1273	1290	1289
3033	NMAT= 1: NSECT= 15: NNSW= 0:	1273	1274	1291	1290
3034	NMAT= 1: NSECT= 15: NNSW= 0:	1274	1275	1292	1291
3035	NMAT= 1: NSECT= 15: NNSW= 0:	1275	1276	1293	1292
3036	NMAT= 1: NSECT= 15: NNSW= 0:	1276	1277	1294	1293
3037	NMAT= 1: NSECT= 15: NNSW= 0:	1277	1278	1295	1294
3038	NMAT= 1: NSECT= 15: NNSW= 0:	1278	1279	1296	1295
3039	NMAT= 1: NSECT= 15: NNSW= 0:	1279	1280	1297	1296
3040	NMAT= 1: NSECT= 16: NNSW= 0:	479	470	478	477
3041	NMAT= 1: NSECT= 16: NNSW= 0:	470	471	481	480
3042	NMAT= 1: NSECT= 16: NNSW= 0:	471	472	484	483
3043	NMAT= 1: NSECT= 16: NNSW= 0:	472	473	487	486
3044	NMAT= 1: NSECT= 16: NNSW= 0:	473	474	490	489
3045	NMAT= 1: NSECT= 16: NNSW= 0:	474	475	493	492
3046	NMAT= 1: NSECT= 10: NNSW= 0:	476	477	496	495
3047	NMAT= 1: NSECT= 10: NNSW= 0:	477	478	497	496
3048	NMAT= 1: NSECT= 10: NNSW= 0:	478	479	498	497
3049	NMAT= 1: NSECT= 10: NNSW= 0:	479	480	499	498
3050	NMAT= 1: NSECT= 10: NNSW= 0:	480	481	500	499
3051	NMAT= 1: NSECT= 10: NNSW= 0:	481	482	501	500
3052	NMAT= 1: NSECT= 10: NNSW= 0:	482	483	502	501
3053	NMAT= 1: NSECT= 10: NNSW= 0:	483	484	503	502
3054	NMAT= 1: NSECT= 10: NNSW= 0:	484	485	504	503
3055	NMAT= 1: NSECT= 10: NNSW= 0:	485	486	505	504
3056	NMAT= 1: NSECT= 10: NNSW= 0:	486	487	506	505
3057	NMAT= 1: NSECT= 10: NNSW= 0:	487	488	507	506
3058	NMAT= 1: NSECT= 10: NNSW= 0:	488	489	508	507
3059	NMAT= 1: NSECT= 10: NNSW= 0:	489	490	509	508
3060	NMAT= 1: NSECT= 10: NNSW= 0:	490	491	510	509
3061	NMAT= 1: NSECT= 10: NNSW= 0:	491	492	511	510
3062	NMAT= 1: NSECT= 10: NNSW= 0:	492	493	512	511
3063	NMAT= 1: NSECT= 10: NNSW= 0:	493	494	513	512
3064	NMAT= 1: NSECT= 15: NNSW= 0:	495	496	515	514
3065	NMAT= 1: NSECT= 15: NNSW= 0:	496	497	516	515
3066	NMAT= 1: NSECT= 15: NNSW= 0:	497	498	517	516
3067	NMAT= 1: NSECT= 15: NNSW= 0:	498	499	518	517
3068	NMAT= 1: NSECT= 15: NNSW= 0:	499	500	519	518
3069	NMAT= 1: NSECT= 15: NNSW= 0:	500	501	520	519
3070	NMAT= 1: NSECT= 15: NNSW= 0:	501	502	521	520
3071	NMAT= 1: NSECT= 15: NNSW= 0:	502	503	522	521
3072	NMAT= 1: NSECT= 15: NNSW= 0:	503	504	523	522
3073	NMAT= 1: NSECT= 15: NNSW= 0:	504	505	524	523
3074	NMAT= 1: NSECT= 15: NNSW= 0:	505	506	525	524
3075	NMAT= 1: NSECT= 15: NNSW= 0:	506	507	526	525
3076	NMAT= 1: NSECT= 15: NNSW= 0:	507	508	527	526
3077	NMAT= 1: NSECT= 15: NNSW= 0:	508	509	528	527

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3078	NMAT= 1: NSECT= 15: NNSW= 0:	509	510	529	528
3079	NMAT= 1: NSECT= 15: NNSW= 0:	510	511	530	529
3080	NMAT= 1: NSECT= 15: NNSW= 0:	511	512	531	530
3081	NMAT= 1: NSECT= 15: NNSW= 0:	512	513	532	531
3082	NMAT= 1: NSECT= 15: NNSW= 0:	514	515	534	533
3083	NMAT= 1: NSECT= 15: NNSW= 0:	515	516	535	534
3084	NMAT= 1: NSECT= 15: NNSW= 0:	516	517	536	535
3085	NMAT= 1: NSECT= 15: NNSW= 0:	517	518	537	536
3086	NMAT= 1: NSECT= 15: NNSW= 0:	518	519	538	537
3087	NMAT= 1: NSECT= 15: NNSW= 0:	519	520	539	538
3088	NMAT= 1: NSECT= 15: NNSW= 0:	520	521	540	539
3089	NMAT= 1: NSECT= 15: NNSW= 0:	521	522	541	540
3090	NMAT= 1: NSECT= 15: NNSW= 0:	522	523	542	541
3091	NMAT= 1: NSECT= 15: NNSW= 0:	523	524	543	542
3092	NMAT= 1: NSECT= 15: NNSW= 0:	524	525	544	543
3093	NMAT= 1: NSECT= 15: NNSW= 0:	525	526	545	544
3094	NMAT= 1: NSECT= 15: NNSW= 0:	526	527	546	545
3095	NMAT= 1: NSECT= 15: NNSW= 0:	527	528	547	546
3096	NMAT= 1: NSECT= 15: NNSW= 0:	528	529	548	547
3097	NMAT= 1: NSECT= 15: NNSW= 0:	529	530	549	548
3098	NMAT= 1: NSECT= 15: NNSW= 0:	530	531	550	549
3099	NMAT= 1: NSECT= 15: NNSW= 0:	531	532	551	550
3100	NMAT= 1: NSECT= 10: NNSW= 0:	533	534	553	552
3101	NMAT= 1: NSECT= 10: NNSW= 0:	534	535	554	553
3102	NMAT= 1: NSECT= 10: NNSW= 0:	535	536	555	554
3103	NMAT= 1: NSECT= 10: NNSW= 0:	536	537	556	555
3104	NMAT= 1: NSECT= 10: NNSW= 0:	537	538	557	556
3105	NMAT= 1: NSECT= 10: NNSW= 0:	538	539	558	557
3106	NMAT= 1: NSECT= 10: NNSW= 0:	539	540	559	558
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3196	NMAT=	1:	NSECT=	14:	NNSW=	0:	652	653	672	671
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3201	NMAT=	1:	NSECT=	14:	NNSW=	0:	657	658	677	676
3202	NMAT=	1:	NSECT=	14:	NNSW=	0:	658	659	678	677
3203	NMAT=	1:	NSECT=	14:	NNSW=	0:	659	660	679	678
3204	NMAJ=	1:	NSECT=	9:	NNSW=	0:	666	667	686	685
3205	NMAT=	1:	NSECT=	9:	NNSW=	0:	667	668	687	686
3206	NMAJ=	1:	NSECT=	9:	NNSW=	0:	668	669	688	687
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3208	NMAT=	1:	NSECT=	9:	NNSW=	0:	670	671	690	689
3209	NMAT=	1:	NSECT=	9:	NNSW=	0:	671	672	691	690
3210	NMAJ=	1:	NSECT=	9:	NNSW=	0:	672	673	692	691
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3213	NMAT=	1:	NSECT=	9:	NNSW=	0:	675	676	695	694
3214	NMAT=	1:	NSECT=	9:	NNSW=	0:	676	677	696	695
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3216	NMAJ=	1:	NSECT=	9:	NNSW=	0:	678	679	698	697
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3240	NMAT=	1:	NSECT=	16:	NNSW=	0:	1371	475	1388	1387
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3246	NMAT=	1:	NSECT=	10:	NNSW=	0:	1376	1377	1394	1393
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3251	NMAT= 1: NSECT= 10: NNSW= 0:	1381	1382	1399	1398
3252	NMAT= 1: NSECT= 10: NNSW= 0:	1382	1383	1400	1399
3253	NMAT= 1: NSECT= 10: NNSW= 0:	1383	1384	1401	1400
3254	NMAT= 1: NSECT= 10: NNSW= 0:	1384	1385	1402	1401
3255	NMAT= 1: NSECT= 10: NNSW= 0:	1385	1386	1403	1402
3256	NMAT= 1: NSECT= 10: NNSW= 0:	1386	1387	1404	1403
3257	NMAT= 1: NSECT= 10: NNSW= 0:	1387	1388	1405	1404
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3264	NMAT= 1: NSECT= 15: NNSW= 0:	1393	1394	1411	1410
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3266	NMAT= 1: NSECT= 15: NNSW= 0:	1395	1396	1413	1412
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3270	NMAT= 1: NSECT= 15: NNSW= 0:	1399	1400	1417	1416
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3274	NMAT= 1: NSECT= 15: NNSW= 0:	1403	1404	1421	1420
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3276	NMAT= 1: NSECT= 15: NNSW= 0:	1405	513	532	1422
3277	NMAT= 1: NSECT= 15: NNSW= 0:	514	1406	1423	533
3278	NMAT= 1: NSECT= 15: NNSW= 0:	1406	1407	1424	1423
3279	NMAT= 1: NSECT= 15: NNSW= 0:	1407	1408	1425	1424
3280	NMAT= 1: NSECT= 15: NNSW= 0:	1408	1409	1426	1425
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3282	NMAT= 1: NSECT= 15: NNSW= 0:	1410	1411	1428	1427
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3311	NMAT= 1: NSECT= 10: NNSW= 0:	1438	1439	1456	1455
3312	NMAT= 1: NSECT= 10: NNSW= 0:	1439	551	570	1456
3313	NMAT= 1: NSECT= 15: NNSW= 0:	552	1440	1457	571
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3332	NMAT= 1: NSECT= 7: NNSW= 0:	661	1537	1554	680
3333	NMAT= 1: NSECT= 14: NNSW= 0:	1460	1461	1478	1477
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3335	NMAT= 1: NSECT= 14: NNSW= 0:	1462	1463	1480	1479
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3345	NMAT= 1: NSECT= 14: NNSW= 0:	1472	1473	1490	1489
3346	NMAT= 1: NSECT= 14: NNSW= 0:	1473	589	608	1490
3347	NMAT= 1: NSECT= 14: NNSW= 0:	1478	1479	1495	1494
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3352	NMAT= 1: NSECT= 14: NNSW= 0:	1483	1484	1500	1499
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3356	NMAT= 1: NSECT= 14: NNSW= 0:	1487	1488	1504	1503
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3417	NMAT=	1:	NSECT=	8:	NNSW=	0:	1558	1559	1576	1575
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3425	NMAT= 1: NSECT= 8: NNSW= 0:	1566	1567	1584	1583
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3560	NMAT=	1:	NSECT=	20:	NNSW=	0:	866	861	862	867
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3562	NMAT=	1:	NSECT=	20:	NNSW=	0:	885	873	874	886
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3571	NMAT=	1:	NSECT=	20:	NNSW=	0:	898	886	887	899
3572	NMAT=	1:	NSECT=	20:	NNSW=	0:	910	898	899	911
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3575	NMAT=	1:	NSECT=	20:	NNSW=	0:	939	934	935	940
3576	NMAT=	1:	NSECT=	20:	NNSW=	0:	875	868	869	876
3577	NMAT=	1:	NSECT=	20:	NNSW=	0:	887	875	876	888
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3581	NMAT=	1:	NSECT=	20:	NNSW=	0:	935	923	924	936
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3585	NMAT=	1:	NSECT=	20:	NNSW=	0:	918	930	929	917
3586	NMAT=	1:	NSECT=	20:	NNSW=	0:	881	893	892	880
3587	NMAT=	1:	NSECT=	20:	NNSW=	0:	893	905	904	892
3588	NMAT=	1:	NSECT=	20:	NNSW=	0:	905	917	916	904
3589	NMAT=	1:	NSECT=	20:	NNSW=	0:	917	929	928	916
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3594	NMAT= 1: NSECT= 20: NNSW= 0:	879	891	890	878
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3597	NMAT= 1: NSECT= 20: NNSW= 0:	915	927	926	914
3598	NMAT= 1: NSECT= 23: NNSW= 0:	1769	1774	1773	1768
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3634	NMAT= 1: NSECT= 23: NNSW= 0:	971	983	982	970
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3636	NMAT= 1: NSECT= 23: NNSW= 0:	958	970	981	969
3637	NMAT= 1: NSECT= 23: NNSW= 0:	970	982	987	981
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3640	NMAT= 1: NSECT= 22: NNSW= 0:	953	965	964	952
3641	NMAT= 1: NSECT= 22: NNSW= 0:	965	977	976	964
3642	NMAT= 1: NSECT= 9: NNSW= 0:	943	948	947	942
3643	NMAT= 1: NSECT= 9: NNSW= 0:	948	960	959	947
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3647	NMAT= 1: NSECT= 9: NNSW= 0:	969	981	980	968

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3652	NMAT=	1:	NSECT=	13:	NNSW=	0:	950	962	961	949
3653	NMAT=	1:	NSECT=	13:	NNSW=	0:	945	950	949	944
3654	NMAT=	1:	NSECT=	13:	NNSW=	0:	973	985	984	972
3655	NMAT=	1:	NSECT=	13:	NNSW=	0:	961	973	972	960
3656	NMAT=	1:	NSECT=	13:	NNSW=	0:	949	961	960	948
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3659	NMAT=	1:	NSECT=	13:	NNSW=	0:	954	966	965	953
3660	NMAT=	1:	NSECT=	13:	NNSW=	0:	967	979	978	966
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3704	NMAT=	1:	NSECT=	8:	NNSW=	0:	369	370	387	386

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3706	NMAT= 1: NSECT= 4: NNSW= 0:	462	463	456	455
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3708	NMAT= 1: NSECT= 4: NNSW= 0:	464	465	458	457
3709	NMAT= 1: NSECT= 4: NNSW= 0:	465	466	459	458
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3712	NMAT= 1: NSECT= 9: NNSW= 0:	450	451	436	435
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3743	NMAT= 1: NSECT= 13: NNSW= 0:	461	460	401	402
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3766	NMAT= 1: NSECT= 4: NNSW= 0:	1322	1323	1328	1327
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3768	NMAT= 1: NSECT= 15: NNSW= 0:	403	1324	1329	410
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3770	NMAT= 1: NSECT= 15: NNSW= 0:	1325	1326	1331	1330
3771	NMAT= 1: NSECT= 15: NNSW= 0:	1326	1327	1332	1331
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3773	NMAT= 1: NSECT= 15: NNSW= 0:	1328	409	416	1333
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3779	NMAT= 1: NSECT= 15: NNSW= 0:	1333	416	423	1338
3780	NMAT= 1: NSECT= 8: NNSW= 0:	1287	1288	1309	382
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3785	NMAT= 1: NSECT= 8: NNSW= 0:	1302	1303	388	1313
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3787	NMAT= 1: NSECT= 4: NNSW= 0:	1362	1363	1358	1357
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3789	NMAT= 1: NSECT= 4: NNSW= 0:	1364	1365	1360	1359
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3791	NMAT= 1: NSECT= 4: NNSW= 0:	1366	468	461	1361
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3793	NMAT= 1: NSECT= 9: NNSW= 0:	1354	1355	1346	1345
3794	NMAT= 1: NSECT= 9: NNSW= 0:	1355	1356	1347	1346
3795	NMAT= 1: NSECT= 9: NNSW= 0:	1356	454	439	1347
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3799	NMAT= 1: NSECT= 13: NNSW= 0:	1353	449	444	1350
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3801	NMAT= 1: NSECT= 8: NNSW= 0:	1348	1349	1346	1345
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3803	NMAT= 1: NSECT= 8: NNSW= 0:	1350	444	439	1347
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3806	NMAT= 1: NSECT= 17: NNSW= 0:	1346	1347	1341	1340
3807	NMAT= 1: NSECT= 17: NNSW= 0:	1347	439	428	1341
3808	NMAT= 1: NSECT= 17: NNSW= 0:	424	1339	1342	429
3809	NMAT= 1: NSECT= 17: NNSW= 0:	1339	1340	1343	1342
3810	NMAT= 1: NSECT= 17: NNSW= 0:	1340	1341	1344	1343
3811	NMAT= 1: NSECT= 17: NNSW= 0:	1341	428	433	1344
3812	NMAT= 1: NSECT= 20: NNSW= 0:	1362	462	389	1314
3813	NMAT= 1: NSECT= 20: NNSW= 0:	1363	1362	1314	1315
3814	NMAT= 1: NSECT= 20: NNSW= 0:	1364	1363	1315	1316
3815	NMAT= 1: NSECT= 20: NNSW= 0:	1365	1364	1316	1317
3816	NMAT= 1: NSECT= 20: NNSW= 0:	1366	1365	1317	1318
3817	NMAT= 1: NSECT= 20: NNSW= 0:	468	1366	1316	395
3818	NMAT= 1: NSECT= 13: NNSW= 0:	1357	455	396	1319

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3821	NMAT=	1:	NSECT=	13:	NNSW=	0:	1360	1359	1321	1322
3822	NMAT=	1:	NSECT=	13:	NNSW=	0:	1361	1360	1322	1323
3823	NMAT=	1:	NSECT=	13:	NNSW=	0:	461	1361	1323	402
3824	NMAT=	1:	NSECT=	17:	NNSW=	0:	142	141	123	124
3825	NMAT=	1:	NSECT=	17:	NNSW=	0:	143	142	126	127
3826	NMAT=	1:	NSECT=	17:	NNSW=	0:	144	143	129	130
3827	NMAT=	1:	NSECT=	17:	NNSW=	0:	145	144	132	133
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3829	NMAT=	1:	NSECT=	17:	NNSW=	0:	147	146	138	139
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3853	NMAT=	1:	NSECT=	11:	NNSW=	0:	182	181	126	127
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3871	NMAT=	1:	NSECT=	2:	NNSW=	0:	181	182	201	200
3872	NMAT=	1:	NSECT=	2:	NNSW=	0:	182	183	202	201
3873	NMAT=	1:	NSECT=	2:	NNSW=	0:	183	184	203	202
3874	NMAT=	1:	NSECT=	2:	NNSW=	0:	184	185	204	203
3875	NMAT=	1:	NSECT=	2:	NNSW=	0:	185	186	205	204

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3879	NMAT= 1: NSECT=	2: NNSW=	0:	165	166	217	216
3880	NMAT= 1: NSECT=	8: NNSW=	0:	213	214	219	218
3881	NMAT= 1: NSECT=	8: NNSW=	0:	214	215	220	219
3882	NMAT= 1: NSECT=	8: NNSW=	0:	215	216	221	220
3883	NMAT= 1: NSECT=	8: NNSW=	0:	216	217	222	221
3884	NMAT= 1: NSECT=	8: NNSW=	0:	218	219	175	174
3885	NMAT= 1: NSECT=	8: NNSW=	0:	219	220	176	175
3886	NMAT= 1: NSECT=	8: NNSW=	0:	220	221	177	176
3887	NMAT= 1: NSECT=	8: NNSW=	0:	221	222	178	177
3888	NMAT= 1: NSECT=	2: NNSW=	0:	174	175	224	223
3889	NMAT= 1: NSECT=	2: NNSW=	0:	175	176	225	224
3890	NMAT= 1: NSECT=	2: NNSW=	0:	176	177	226	225
3891	NMAT= 1: NSECT=	2: NNSW=	0:	177	178	227	226
3892	NMAT= 1: NSECT=	5: NNSW=	0:	223	224	195	194
3893	NMAT= 1: NSECT=	5: NNSW=	0:	224	225	196	195
3894	NMAT= 1: NSECT=	5: NNSW=	0:	225	226	197	196
3895	NMAT= 1: NSECT=	5: NNSW=	0:	226	227	198	197
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3906	NMAT= 1: NSECT=	9: NNSW=	0:	1124	1123	1118	1119
3907	NMAT= 1: NSECT=	9: NNSW=	0:	154	1124	1119	147
3908	NMAT= 1: NSECT=	9: NNSW=	0:	1125	155	148	1120
3909	NMAT= 1: NSECT=	9: NNSW=	0:	1126	1125	1120	1121
3910	NMAT= 1: NSECT=	9: NNSW=	0:	1127	1126	1121	1122
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3912	NMAT= 1: NSECT=	9: NNSW=	0:	1129	1128	1123	1124
3913	NMAT= 1: NSECT=	9: NNSW=	0:	161	1129	1124	154
3914	NMAT= 1: NSECT=	9: NNSW=	0:	1130	162	155	1125
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3917	NMAT= 1: NSECT=	9: NNSW=	0:	166	1132	1129	161
3918	NMAT= 1: NSECT=	20: NNSW=	0:	1133	167	141	1115
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3931	NMAT= 1: NSECT=	11: NNSW=	0:	1147	1146	1141	1142
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3933	NMAT= 1: NSECT= 11: NNSW= 0:	1149	1148	1143	1144
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3935	NMAT= 1: NSECT= 11: NNSW= 0:	1193	1150	1145	1186
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3937	NMAT= 1: NSECT= 8: NNSW= 0:	1155	1154	996	997
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3939	NMAT= 1: NSECT= 8: NNSW= 0:	1157	1156	1002	1003
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3943	NMAT= 1: NSECT= 2: NNSW= 0:	1141	1142	1155	1154
3944	NMAT= 1: NSECT= 2: NNSW= 0:	1142	1143	1156	1155
3945	NMAT= 1: NSECT= 2: NNSW= 0:	1143	1144	1157	1156
3946	NMAT= 1: NSECT= 2: NNSW= 0:	1144	1145	1158	1157
3947	NMAT= 1: NSECT= 2: NNSW= 0:	1145	1186	205	1158
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3952	NMAT= 1: NSECT= 8: NNSW= 0:	213	1162	1165	218
3953	NMAT= 1: NSECT= 8: NNSW= 0:	1162	1163	1166	1165
3954	NMAT= 1: NSECT= 8: NNSW= 0:	1163	1164	1167	1166
3955	NMAT= 1: NSECT= 8: NNSW= 0:	1164	217	222	1167
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3957	NMAT= 1: NSECT= 8: NNSW= 0:	1165	1166	1139	1138
3958	NMAT= 1: NSECT= 8: NNSW= 0:	1166	1167	1140	1139
3959	NMAT= 1: NSECT= 8: NNSW= 0:	1167	222	178	1140
3960	NMAT= 1: NSECT= 2: NNSW= 0:	174	1138	1168	223
3961	NMAT= 1: NSECT= 2: NNSW= 0:	1138	1139	1169	1168
3962	NMAT= 1: NSECT= 2: NNSW= 0:	1139	1140	1170	1169
3963	NMAT= 1: NSECT= 2: NNSW= 0:	1140	178	227	1170
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3965	NMAT= 1: NSECT= 5: NNSW= 0:	1168	1169	1152	1151
3966	NMAT= 1: NSECT= 5: NNSW= 0:	1169	1170	1153	1152
3967	NMAT= 1: NSECT= 5: NNSW= 0:	1170	227	198	1153
3968	NMAT= 1: NSECT= 8: NNSW= 0:	725	724	731	732
3969	NMAT= 1: NSECT= 8: NNSW= 0:	726	725	732	733
3970	NMAT= 1: NSECT= 8: NNSW= 0:	727	726	733	734
3971	NMAT= 1: NSECT= 8: NNSW= 0:	728	727	734	735
3972	NMAT= 1: NSECT= 8: NNSW= 0:	729	728	735	736
3973	NMAT= 1: NSECT= 8: NNSW= 0:	730	729	736	737
3974	NMAT= 1: NSECT= 20: NNSW= 0:	732	731	738	739
3975	NMAT= 1: NSECT= 20: NNSW= 0:	733	732	739	740
3976	NMAT= 1: NSECT= 20: NNSW= 0:	734	733	740	741
3977	NMAT= 1: NSECT= 20: NNSW= 0:	735	734	741	742
3978	NMAT= 1: NSECT= 20: NNSW= 0:	736	735	742	743
3979	NMAT= 1: NSECT= 20: NNSW= 0:	737	736	743	744
3980	NMAT= 1: NSECT= 9: NNSW= 0:	739	738	745	746
3981	NMAT= 1: NSECT= 9: NNSW= 0:	740	739	746	747
3982	NMAT= 1: NSECT= 9: NNSW= 0:	741	740	747	748
3983	NMAT= 1: NSECT= 9: NNSW= 0:	742	741	748	749
3984	NMAT= 1: NSECT= 9: NNSW= 0:	743	742	749	750
3985	NMAT= 1: NSECT= 9: NNSW= 0:	744	743	750	751
3986	NMAT= 1: NSECT= 8: NNSW= 0:	758	757	764	765
3987	NMAT= 1: NSECT= 8: NNSW= 0:	759	758	765	766
3988	NMAT= 1: NSECT= 8: NNSW= 0:	760	759	766	767
3989	NMAT= 1: NSECT= 8: NNSW= 0:	761	760	767	768

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3993	NMAT= 1: NSECT= 13: NNSW= 0:	778	777	784	785
3994	NMAT= 1: NSECT= 13: NNSW= 0:	779	778	785	786
3995	NMAT= 1: NSECT= 13: NNSW= 0:	780	779	786	787
3996	NMAT= 1: NSECT= 13: NNSW= 0:	781	780	787	788
3997	NMAT= 1: NSECT= 13: NNSW= 0:	782	781	788	789
3998	NMAT= 1: NSECT= 9: NNSW= 0:	784	783	745	746
3999	NMAT= 1: NSECT= 9: NNSW= 0:	785	784	746	747
4000	NMAT= 1: NSECT= 9: NNSW= 0:	786	785	747	748
4001	NMAT= 1: NSECT= 9: NNSW= 0:	787	786	748	749
4002	NMAT= 1: NSECT= 9: NNSW= 0:	788	787	749	750
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4005	NMAT= 1: NSECT= 13: NNSW= 0:	797	796	803	804
4006	NMAT= 1: NSECT= 13: NNSW= 0:	798	797	804	805
4007	NMAT= 1: NSECT= 13: NNSW= 0:	799	798	805	806
4008	NMAT= 1: NSECT= 13: NNSW= 0:	800	799	806	807
4009	NMAT= 1: NSECT= 13: NNSW= 0:	801	800	807	808
4010	NMAT= 1: NSECT= 6: NNSW= 0:	810	809	816	817
4011	NMAT= 1: NSECT= 6: NNSW= 0:	811	810	817	818
4012	NMAT= 1: NSECT= 6: NNSW= 0:	812	811	818	819
4013	NMAT= 1: NSECT= 6: NNSW= 0:	813	812	819	820
4014	NMAT= 1: NSECT= 6: NNSW= 0:	814	813	820	821
4015	NMAT= 1: NSECT= 6: NNSW= 0:	815	814	821	822
4016	NMAT= 1: NSECT= 13: NNSW= 0:	817	816	700	701
4017	NMAT= 1: NSECT= 13: NNSW= 0:	818	817	703	704
4018	NMAT= 1: NSECT= 13: NNSW= 0:	819	818	706	707
4019	NMAT= 1: NSECT= 13: NNSW= 0:	820	819	709	710
4020	NMAT= 1: NSECT= 13: NNSW= 0:	821	820	712	713
4021	NMAT= 1: NSECT= 13: NNSW= 0:	822	821	715	716
4022	NMAT= 1: NSECT= 8: NNSW= 0:	824	823	700	701
4023	NMAT= 1: NSECT= 8: NNSW= 0:	825	824	703	704
4024	NMAT= 1: NSECT= 8: NNSW= 0:	826	825	706	707
4025	NMAT= 1: NSECT= 8: NNSW= 0:	827	826	709	710
4026	NMAT= 1: NSECT= 8: NNSW= 0:	828	827	712	713
4027	NMAT= 1: NSECT= 8: NNSW= 0:	829	828	715	716
4028	NMAT= 1: NSECT= 8: NNSW= 0:	758	757	724	725
4029	NMAT= 1: NSECT= 8: NNSW= 0:	759	758	725	726
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4034	NMAT= 1: NSECT= 8: NNSW= 0:	796	795	776	777
4035	NMAT= 1: NSECT= 8: NNSW= 0:	797	796	777	778
4036	NMAT= 1: NSECT= 8: NNSW= 0:	798	797	778	779
4037	NMAT= 1: NSECT= 8: NNSW= 0:	799	798	779	780
4038	NMAT= 1: NSECT= 8: NNSW= 0:	800	799	780	781
4039	NMAT= 1: NSECT= 8: NNSW= 0:	801	800	781	782
4040	NMAT= 1: NSECT= 20: NNSW= 0:	784	783	738	739
4041	NMAT= 1: NSECT= 20: NNSW= 0:	785	784	739	740
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4043	NMAT= 1: NSECT= 20: NNSW= 0:	787	786	741	742
4044	NMAT= 1: NSECT= 20: NNSW= 0:	788	787	742	743
4045	NMAT= 1: NSECT= 20: NNSW= 0:	789	788	743	744
4046	NMAT= 1: NSECT= 8: NNSW= 0:	753	752	719	720

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4049	NMAT= 1: NSECT= 8: NNSW= 0:	756	755	722	723
4050	NMAT= 1: NSECT= 13: NNSW= 0:	772	771	752	753
4051	NMAT= 1: NSECT= 13: NNSW= 0:	773	772	753	754
4052	NMAT= 1: NSECT= 13: NNSW= 0:	774	773	754	755
4053	NMAT= 1: NSECT= 13: NNSW= 0:	775	774	755	756
4054	NMAT= 1: NSECT= 13: NNSW= 0:	791	790	771	772
4055	NMAT= 1: NSECT= 13: NNSW= 0:	792	791	772	773
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4057	NMAT= 1: NSECT= 13: NNSW= 0:	794	793	774	775
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4059	NMAT= 1: NSECT= 8: NNSW= 0:	804	803	746	747
4060	NMAT= 1: NSECT= 8: NNSW= 0:	805	804	747	748
4061	NMAT= 1: NSECT= 8: NNSW= 0:	806	805	748	749
4062	NMAT= 1: NSECT= 8: NNSW= 0:	807	806	749	750
4063	NMAT= 1: NSECT= 8: NNSW= 0:	808	807	750	751
4064	NMAT= 1: NSECT= 9: NNSW= 0:	824	823	802	803
4065	NMAT= 1: NSECT= 9: NNSW= 0:	825	824	803	804
4066	NMAT= 1: NSECT= 9: NNSW= 0:	826	825	804	805
4067	NMAT= 1: NSECT= 9: NNSW= 0:	827	826	805	806
4068	NMAT= 1: NSECT= 9: NNSW= 0:	828	827	806	807
4069	NMAT= 1: NSECT= 9: NNSW= 0:	829	828	807	808
4070	NMAT= 1: NSECT= 20: NNSW= 0:	810	809	823	824
4071	NMAT= 1: NSECT= 20: NNSW= 0:	811	810	824	825
4072	NMAT= 1: NSECT= 20: NNSW= 0:	812	811	825	826
4073	NMAT= 1: NSECT= 20: NNSW= 0:	813	812	826	827
4074	NMAT= 1: NSECT= 20: NNSW= 0:	814	813	827	828
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4094	NMAT= 1: NSECT= 8: NNSW= 0:	1614	757	764	1619
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4097	NMAT= 1: NSECT= 8: NNSW= 0:	1617	1616	1621	1622
4098	NMAT= 1: NSECT= 8: NNSW= 0:	1618	1617	1622	1623
4099	NMAT= 1: NSECT= 8: NNSW= 0:	763	1618	1623	770
4100	NMAT= 1: NSECT= 13: NNSW= 0:	1627	776	783	1632
4101	NMAT= 1: NSECT= 13: NNSW= 0:	1628	1627	1632	1633
4102	NMAT= 1: NSECT= 13: NNSW= 0:	1629	1628	1633	1634
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4165	NMAT=	1:	NSECT=	13:	NNSW=	0:	794	1639	1626	775
4166	NMAT=	1:	NSECT=	8:	NNSW=	0:	1645	802	745	1606
4167	NMAT=	1:	NSECT=	8:	NNSW=	0:	1646	1645	1606	1607
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4172	NMAT=	1:	NSECT=	9:	NNSW=	0:	1660	823	802	1645
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4222	NMAT=	1:	NSECT=	25:	NNSW=	0:	107	106	87
4223	NMAT=	1:	NSECT=	25:	NNSW=	0:	87	106	86
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4286	NMAT=	1:	NSECT=	25:	NNSW=	0:	8	993	1010
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4289	NMAT=	1:	NSECT=	25:	NNSW=	0:	1026	994	1011
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4291	NMAT=	1:	NSECT=	25:	NNSW=	0:	995	1012	1011
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4293	NMAT=	1:	NSECT=	25:	NNSW=	0:	996	997	1013
4294	NMAT=	1:	NSECT=	25:	NNSW=	0:	997	998	1013
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4296	NMAT=	1:	NSECT=	25:	NNSW=	0:	1013	1014	1028
4297	NMAT=	1:	NSECT=	25:	NNSW=	0:	1014	1015	1028
4298	NMAT=	1:	NSECT=	25:	NNSW=	0:	1028	1015	1029
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4329	NMAT=	1:	NSECT=	25:	NNSW=	0:	1024	1009	1025
4330	NMAT=	1:	NSECT=	25:	NNSW=	0:	1007	1024	1023
4331	NMAT=	1:	NSECT=	25:	NNSW=	0:	1022	1007	1023

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4335	NMAT=	1: NSECT=	25: NNSW=	0:	1036	1050	1049
4336	NMAT=	1: NSECT=	25: NNSW=	0:	1049	1050	1061
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4338	NMAT=	1: NSECT=	25: NNSW=	0:	1061	1062	1077
4339	NMAT=	1: NSECT=	25: NNSW=	0:	1077	1062	1078
4340	NMAT=	1: NSECT=	25: NNSW=	0:	1077	1078	1095
4341	NMAT=	1: NSECT=	25: NNSW=	0:	1095	1078	1079
4342	NMAT=	1: NSECT=	25: NNSW=	0:	1095	1079	1096
4343	NMAT=	1: NSECT=	25: NNSW=	0:	1079	1097	1096
4344	NMAT=	1: NSECT=	25: NNSW=	0:	1079	1080	1097
4345	NMAT=	1: NSECT=	25: NNSW=	0:	1080	102	1097
4346	NMAT=	1: NSECT=	25: NNSW=	0:	1097	102	121
4347	NMAT=	1: NSECT=	26: NNSW=	0:	1080	1063	102
4348	NMAT=	1: NSECT=	26: NNSW=	0:	1063	84	102
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4350	NMAT=	1: NSECT=	26: NNSW=	0:	1038	43	57
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4353	NMAT=	1: NSECT=	28: NNSW=	0:	1051	71	1063
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4358	NMAT=	1: NSECT=	31: NNSW=	0:	1021	1022	1035
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4360	NMAT=	1: NSECT=	34: NNSW=	0:	230	239	238
4361	NMAT=	1: NSECT=	34: NNSW=	0:	230	240	239
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4364	NMAT=	1: NSECT=	34: NNSW=	0:	232	245	244
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4374	NMAT=	1: NSECT=	34: NNSW=	0:	271	288	287
4375	NMAT=	1: NSECT=	34: NNSW=	0:	287	288	302
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4378	NMAT=	1: NSECT=	34: NNSW=	0:	302	317	316
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4384	NMAT=	1: NSECT=	34: NNSW=	0:	269	270	285
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4386	NMAT=	1: NSECT=	34: NNSW=	0:	268	269	285
4387	NMAT=	1: NSECT=	34: NNSW=	0:	250	269	268
4388	NMAT=	1: NSECT=	34: NNSW=	0:	249	250	268

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4391	NMAT=	1:	NSECT=	34:	NNSW=	0:	267	266	248
4392	NMAT=	1:	NSECT=	34:	NNSW=	0:	266	247	248
4393	NMAT=	1:	NSECT=	34:	NNSW=	0:	266	265	247
4394	NMAT=	1:	NSECT=	34:	NNSW=	0:	266	267	284
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4396	NMAT=	1:	NSECT=	33:	NNSW=	0:	265	284	283
4397	NMAT=	1:	NSECT=	33:	NNSW=	0:	283	284	300
4398	NMAT=	1:	NSECT=	33:	NNSW=	0:	283	300	299
4399	NMAT=	1:	NSECT=	33:	NNSW=	0:	299	300	315
4400	NMAT=	1:	NSECT=	33:	NNSW=	0:	299	315	314
4401	NMAT=	1:	NSECT=	33:	NNSW=	0:	315	331	330
4402	NMAT=	1:	NSECT=	27:	NNSW=	0:	246	247	265
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4407	NMAT=	1:	NSECT=	27:	NNSW=	0:	350	332	351
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4414	NMAT=	1:	NSECT=	27:	NNSW=	0:	354	336	355
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4416	NMAT=	1:	NSECT=	31:	NNSW=	0:	353	335	354
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4422	NMAT=	1:	NSECT=	25:	NNSW=	0:	318	317	303
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4438	NMAT=	1:	NSECT=	34:	NNSW=	0:	1208	1224	1223
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4440	NMAT=	1:	NSECT=	34:	NNSW=	0:	1237	1224	1238
4441	NMAT=	1:	NSECT=	34:	NNSW=	0:	1237	1238	1251
4442	NMAT=	1:	NSECT=	34:	NNSW=	0:	1237	1251	1250
4443	NMAT=	1:	NSECT=	34:	NNSW=	0:	1237	1250	1236
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4445	NMAT=	1:	NSECT=	34:	NNSW=	0:	1236	1222	1223

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4450	NMAT=	1:	NSECT=	34:	NNSW=	0:	1205	1206	1221
4451	NMAT=	1:	NSECT=	34:	NNSW=	0:	1189	1206	1205
4452	NMAT=	1:	NSECT=	34:	NNSW=	0:	1188	1189	1205
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4454	NMAT=	1:	NSECT=	34:	NNSW=	0:	1187	1188	1204
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4465	NMAT=	1:	NSECT=	33:	NNSW=	0:	1249	1264	1263
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4472	NMAT=	1:	NSECT=	27:	NNSW=	0:	1283	1265	1266
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4479	NMAT=	1:	NSECT=	31:	NNSW=	0:	1284	1268	1285
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4496	NMAT=	1:	NSECT=	39:	NNSW=	0:	491	490	474
4497	NMAT=	1:	NSECT=	39:	NNSW=	0:	492	491	474
4498	NMAT=	1:	NSECT=	39:	NNSW=	0:	494	493	475
4499	NMAT=	1:	NSECT=	30:	NNSW=	0:	572	611	591
4500	NMAT=	1:	NSECT=	30:	NNSW=	0:	572	573	611
4501	NMAT=	1:	NSECT=	30:	NNSW=	0:	611	573	592
4502	NMAT=	1:	NSECT=	30:	NNSW=	0:	573	574	592

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4505	NMAT=	1: NSECT=	30: NNSW=	0:	593	594	612
4506	NMAT=	1: NSECT=	30: NNSW=	0:	612	594	613
4507	NMAT=	1: NSECT=	30: NNSW=	0:	612	613	629
4508	NMAT=	1: NSECT=	30: NNSW=	0:	629	613	630
4509	NMAT=	1: NSECT=	30: NNSW=	0:	629	630	646
4510	NMAT=	1: NSECT=	30: NNSW=	0:	646	630	647
4511	NMAT=	1: NSECT=	30: NNSW=	0:	646	647	666
4512	NMAT=	1: NSECT=	30: NNSW=	0:	665	646	666
4513	NMAT=	1: NSECT=	30: NNSW=	0:	665	666	684
4514	NMAT=	1: NSECT=	30: NNSW=	0:	685	684	666
4515	NMAT=	1: NSECT=	30: NNSW=	0:	662	682	681
4516	NMAT=	1: NSECT=	37: NNSW=	0:	574	575	594
4517	NMAT=	1: NSECT=	37: NNSW=	0:	594	595	613
4518	NMAT=	1: NSECT=	25: NNSW=	0:	590	591	609
4519	NMAT=	1: NSECT=	25: NNSW=	0:	609	591	610
4520	NMAT=	1: NSECT=	25: NNSW=	0:	610	591	611
4521	NMAT=	1: NSECT=	25: NNSW=	0:	644	645	662
4522	NMAT=	1: NSECT=	25: NNSW=	0:	644	662	661
4523	NMAT=	1: NSECT=	25: NNSW=	0:	645	663	662
4524	NMAT=	1: NSECT=	25: NNSW=	0:	662	663	682
4525	NMAT=	1: NSECT=	25: NNSW=	0:	663	683	682
4526	NMAT=	1: NSECT=	25: NNSW=	0:	663	664	683
4527	NMAT=	1: NSECT=	25: NNSW=	0:	664	684	683
4528	NMAT=	1: NSECT=	25: NNSW=	0:	664	665	684
4529	NMAT=	1: NSECT=	40: NNSW=	0:	609	610	627
4530	NMAT=	1: NSECT=	40: NNSW=	0:	627	610	628
4531	NMAT=	1: NSECT=	40: NNSW=	0:	627	628	645
4532	NMAT=	1: NSECT=	40: NNSW=	0:	627	645	644
4533	NMAT=	1: NSECT=	39: NNSW=	0:	476	469	1372
4534	NMAT=	1: NSECT=	39: NNSW=	0:	1373	1367	1374
4535	NMAT=	1: NSECT=	39: NNSW=	0:	1374	1367	1375
4536	NMAT=	1: NSECT=	39: NNSW=	0:	1376	1368	1377
4537	NMAT=	1: NSECT=	39: NNSW=	0:	1377	1368	1378
4538	NMAT=	1: NSECT=	39: NNSW=	0:	1379	1369	1380
4539	NMAT=	1: NSECT=	39: NNSW=	0:	1381	1380	1369
4540	NMAT=	1: NSECT=	39: NNSW=	0:	1383	1382	1370
4541	NMAT=	1: NSECT=	39: NNSW=	0:	1384	1383	1370
4542	NMAT=	1: NSECT=	39: NNSW=	0:	1386	1385	1371
4543	NMAT=	1: NSECT=	39: NNSW=	0:	1387	1386	1371
4544	NMAT=	1: NSECT=	39: NNSW=	0:	494	1388	475
4545	NMAT=	1: NSECT=	30: NNSW=	0:	1457	1492	1474
4546	NMAT=	1: NSECT=	30: NNSW=	0:	1457	1458	1492
4547	NMAT=	1: NSECT=	30: NNSW=	0:	1492	1458	1475
4548	NMAT=	1: NSECT=	30: NNSW=	0:	1458	1459	1475
4549	NMAT=	1: NSECT=	30: NNSW=	0:	1475	1459	1476
4550	NMAT=	1: NSECT=	30: NNSW=	0:	1476	1459	1477
4551	NMAT=	1: NSECT=	30: NNSW=	0:	1476	1477	1493
4552	NMAT=	1: NSECT=	30: NNSW=	0:	1493	1477	1494
4553	NMAT=	1: NSECT=	30: NNSW=	0:	1493	1494	1508
4554	NMAT=	1: NSECT=	30: NNSW=	0:	1508	1494	1509
4555	NMAT=	1: NSECT=	30: NNSW=	0:	1508	1509	1523
4556	NMAT=	1: NSECT=	30: NNSW=	0:	1523	1509	1524
4557	NMAT=	1: NSECT=	30: NNSW=	0:	1523	1524	1541
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4559	NMAT=	1: NSECT=	30: NNSW=	0:	1540	1541	1557

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4560	NMAT=	1:	NSECT=	30:	NNSW=	0:	1558	1557	1541
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4562	NMAT=	1:	NSECT=	37:	NNSW=	0:	1459	1460	1477
4563	NMAT=	1:	NSECT=	37:	NNSW=	0:	1477	1478	1494
4564	NMAT=	1:	NSECT=	25:	NNSW=	0:	590	1474	609
4565	NMAT=	1:	NSECT=	25:	NNSW=	0:	609	1474	1491
4566	NMAT=	1:	NSECT=	25:	NNSW=	0:	1491	1474	1492
4567	NMAT=	1:	NSECT=	25:	NNSW=	0:	644	1522	1537
4568	NMAT=	1:	NSECT=	25:	NNSW=	0:	644	1537	661
4569	NMAT=	1:	NSECT=	25:	NNSW=	0:	1522	1538	1537
4570	NMAT=	1:	NSECT=	25:	NNSW=	0:	1537	1538	1555
4571	NMAT=	1:	NSECT=	25:	NNSW=	0:	1538	1556	1555
4572	NMAT=	1:	NSECT=	25:	NNSW=	0:	1538	1539	1556
4573	NMAT=	1:	NSECT=	25:	NNSW=	0:	1539	1557	1556
4574	NMAT=	1:	NSECT=	25:	NNSW=	0:	1539	1540	1557
4575	NMAT=	1:	NSECT=	40:	NNSW=	0:	609	1491	627
4576	NMAT=	1:	NSECT=	40:	NNSW=	0:	627	1491	1507
4577	NMAT=	1:	NSECT=	40:	NNSW=	0:	627	1507	1522
4578	NMAT=	1:	NSECT=	40:	NNSW=	0:	627	1522	644
4579	NMAT=	1:	NSECT=	43:	NNSW=	0:	1759	1760	1765
4580	NMAT=	1:	NSECT=	43:	NNSW=	0:	1762	1763	1767
4581	NMAT=	1:	NSECT=	43:	NNSW=	0:	1695	1690	1696
4582	NMAT=	1:	NSECT=	43:	NNSW=	0:	1692	1688	1693
4583	NMAT=	1:	NSECT=	33:	NNSW=	0:	1205	1758	1759
4584	NMAT=	1:	NSECT=	33:	NNSW=	0:	1205	1759	1204
4585	NMAT=	1:	NSECT=	33:	NNSW=	0:	1204	1759	1765
4586	NMAT=	1:	NSECT=	33:	NNSW=	0:	1204	1765	1220
4587	NMAT=	1:	NSECT=	33:	NNSW=	0:	1220	1765	1766
4588	NMAT=	1:	NSECT=	33:	NNSW=	0:	1220	1766	1235
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4590	NMAT=	1:	NSECT=	33:	NNSW=	0:	1249	1766	1767
4591	NMAT=	1:	NSECT=	33:	NNSW=	0:	1249	1767	1264
4592	NMAT=	1:	NSECT=	33:	NNSW=	0:	1264	1767	1763
4593	NMAT=	1:	NSECT=	33:	NNSW=	0:	1264	1763	1265
4594	NMAT=	1:	NSECT=	33:	NNSW=	0:	1265	1763	1764
4595	NMAT=	1:	NSECT=	33:	NNSW=	0:	1696	1067	1697
4596	NMAT=	1:	NSECT=	33:	NNSW=	0:	1696	1068	1067
4597	NMAT=	1:	NSECT=	33:	NNSW=	0:	1068	1696	1690
4598	NMAT=	1:	NSECT=	33:	NNSW=	0:	1690	1053	1068
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4600	NMAT=	1:	NSECT=	33:	NNSW=	0:	1053	1689	1041
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4604	NMAT=	1:	NSECT=	33:	NNSW=	0:	1013	1688	1692
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4606	NMAT=	1:	NSECT=	33:	NNSW=	0:	996	1692	1691
4607	NMAT=	1:	NSECT=	33:	NNSW=	0:	1758	1205	1221
4608	NMAT=	1:	NSECT=	33:	NNSW=	0:	1746	1758	1221
4609	NMAT=	1:	NSECT=	33:	NNSW=	0:	1746	1221	1757
4610	NMAT=	1:	NSECT=	33:	NNSW=	0:	1757	1221	1236
4611	NMAT=	1:	NSECT=	33:	NNSW=	0:	1757	1236	1756
4612	NMAT=	1:	NSECT=	33:	NNSW=	0:	1756	1236	1250
4613	NMAT=	1:	NSECT=	33:	NNSW=	0:	1756	1250	1755
4614	NMAT=	1:	NSECT=	33:	NNSW=	0:	1755	1250	1754
4615	NMAT=	1:	NSECT=	33:	NNSW=	0:	1754	1250	1267
4616	NMAT=	1:	NSECT=	33:	NNSW=	0:	1754	1267	1753

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4617	NMAT=	1: NSECT=	33: NNSW=	0:	1753	1267	1266
4618	NMAT=	1: NSECT=	33: NNSW=	0:	1753	1266	1752
4619	NMAT=	1: NSECT=	33: NNSW=	0:	1752	1266	1764
4620	NMAT=	1: NSECT=	33: NNSW=	0:	1764	1266	1265
4621	NMAT=	1: NSECT=	33: NNSW=	0:	1067	1066	1697
4622	NMAT=	1: NSECT=	33: NNSW=	0:	1697	1066	1704
4623	NMAT=	1: NSECT=	33: NNSW=	0:	1066	1705	1704
4624	NMAT=	1: NSECT=	33: NNSW=	0:	1066	1040	1705
4625	NMAT=	1: NSECT=	33: NNSW=	0:	1040	1706	1705
4626	NMAT=	1: NSECT=	33: NNSW=	0:	1040	1027	1706
4627	NMAT=	1: NSECT=	33: NNSW=	0:	1027	1707	1706
4628	NMAT=	1: NSECT=	33: NNSW=	0:	1027	1708	1707
4629	NMAT=	1: NSECT=	33: NNSW=	0:	1011	1708	1027
4630	NMAT=	1: NSECT=	33: NNSW=	0:	1011	1709	1708
4631	NMAT=	1: NSECT=	33: NNSW=	0:	1011	1012	1709
4632	NMAT=	1: NSECT=	33: NNSW=	0:	1012	1698	1709
4633	NMAT=	1: NSECT=	33: NNSW=	0:	1012	1691	1698
4634	NMAT=	1: NSECT=	33: NNSW=	0:	1012	996	1691
4635	NMAT=	1: NSECT=	25: NNSW=	0:	856	254	855
4636	NMAT=	1: NSECT=	25: NNSW=	0:	856	272	254
4637	NMAT=	1: NSECT=	25: NNSW=	0:	857	272	856
4638	NMAT=	1: NSECT=	25: NNSW=	0:	857	288	272
4639	NMAT=	1: NSECT=	25: NNSW=	0:	858	288	857
4640	NMAT=	1: NSECT=	25: NNSW=	0:	858	303	288
4641	NMAT=	1: NSECT=	25: NNSW=	0:	859	303	858
4642	NMAT=	1: NSECT=	25: NNSW=	0:	859	318	303
4643	NMAT=	1: NSECT=	25: NNSW=	0:	27	834	8
4644	NMAT=	1: NSECT=	25: NNSW=	0:	27	835	834
4645	NMAT=	1: NSECT=	25: NNSW=	0:	44	835	27
4646	NMAT=	1: NSECT=	25: NNSW=	0:	44	836	835
4647	NMAT=	1: NSECT=	25: NNSW=	0:	44	830	836
4648	NMAT=	1: NSECT=	25: NNSW=	0:	830	837	836
4649	NMAT=	1: NSECT=	25: NNSW=	0:	58	830	44
4650	NMAT=	1: NSECT=	25: NNSW=	0:	831	837	830
4651	NMAT=	1: NSECT=	25: NNSW=	0:	830	58	831
4652	NMAT=	1: NSECT=	25: NNSW=	0:	58	72	831
4653	NMAT=	1: NSECT=	27: NNSW=	0:	318	859	860
4654	NMAT=	1: NSECT=	27: NNSW=	0:	318	860	336
4655	NMAT=	1: NSECT=	27: NNSW=	0:	336	860	355
4656	NMAT=	1: NSECT=	27: NNSW=	0:	831	72	832
4657	NMAT=	1: NSECT=	27: NNSW=	0:	832	72	85
4658	NMAT=	1: NSECT=	27: NNSW=	0:	832	85	833
4659	NMAT=	1: NSECT=	27: NNSW=	0:	833	85	103
4660	NMAT=	1: NSECT=	43: NNSW=	0:	837	831	838
4661	NMAT=	1: NSECT=	25: NNSW=	0:	1683	254	855
4662	NMAT=	1: NSECT=	25: NNSW=	0:	1683	1209	254
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4665	NMAT=	1: NSECT=	25: NNSW=	0:	1685	1224	1684
4666	NMAT=	1: NSECT=	25: NNSW=	0:	1685	1238	1224
4667	NMAT=	1: NSECT=	25: NNSW=	0:	1686	1238	1685
4668	NMAT=	1: NSECT=	25: NNSW=	0:	1686	1252	1238
4669	NMAT=	1: NSECT=	25: NNSW=	0:	1010	834	8
4670	NMAT=	1: NSECT=	25: NNSW=	0:	1010	1668	834
4671	NMAT=	1: NSECT=	25: NNSW=	0:	1026	1668	1010
4672	NMAT=	1: NSECT=	25: NNSW=	0:	1026	1669	1668
4673	NMAT=	1: NSECT=	25: NNSW=	0:	1026	1665	1669

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4674	NMAT=	1:	NSECT=	25:	NNSW=	0:	1665	1670	1669
4675	NMAT=	1:	NSECT=	25:	NNSW=	0:	1039	1665	1026
4676	NMAT=	1:	NSECT=	25:	NNSW=	0:	1666	1670	1665
4677	NMAT=	1:	NSECT=	25:	NNSW=	0:	1665	1039	1666
4678	NMAT=	1:	NSECT=	25:	NNSW=	0:	1039	1052	1666
4679	NMAT=	1:	NSECT=	27:	NNSW=	0:	1252	1686	1687
4680	NMAJ=	1:	NSECT=	27:	NNSW=	0:	1252	1687	1269
4681	NMAT=	1:	NSECT=	27:	NNSW=	0:	1269	1687	355
4682	NMAT=	1:	NSECT=	27:	NNSW=	0:	1666	1052	1667
4683	NMAT=	1:	NSECT=	27:	NNSW=	0:	1667	1052	1064
4684	NMAT=	1:	NSECT=	27:	NNSW=	0:	1667	1064	833
4685	NMAT=	1:	NSECT=	27:	NNSW=	0:	833	1064	103
4686	NMAJ=	1:	NSECT=	43:	NNSW=	0:	1670	1666	1671
4687	NMAT=	1:	NSECT=	43:	NNSW=	0:	932	933	938
4688	NMAT=	1:	NSECT=	43:	NNSW=	0:	935	936	940
4689	NMAT=	1:	NSECT=	43:	NNSW=	0:	868	863	869
4690	NMAT=	1:	NSECT=	43:	NNSW=	0:	865	861	866
4691	NMAT=	1:	NSECT=	33:	NNSW=	0:	268	931	932
4692	NMAT=	1:	NSECT=	33:	NNSW=	0:	268	932	267
4693	NMAT=	1:	NSECT=	33:	NNSW=	0:	267	932	938
4694	NMAT=	1:	NSECT=	33:	NNSW=	0:	267	938	284
4695	NMAT=	1:	NSECT=	33:	NNSW=	0:	284	938	939
4696	NMAT=	1:	NSECT=	33:	NNSW=	0:	284	939	300
4697	NMAT=	1:	NSECT=	33:	NNSW=	0:	300	939	315
4698	NMAT=	1:	NSECT=	33:	NNSW=	0:	315	939	940
4699	NMAT=	1:	NSECT=	33:	NNSW=	0:	315	940	331
4700	NMAT=	1:	NSECT=	33:	NNSW=	0:	331	940	936
4701	NMAT=	1:	NSECT=	33:	NNSW=	0:	331	936	332
4702	NMAT=	1:	NSECT=	33:	NNSW=	0:	332	936	937
4703	NMAT=	1:	NSECT=	33:	NNSW=	0:	869	88	870
4704	NMAT=	1:	NSECT=	33:	NNSW=	0:	869	89	88
4705	NMAT=	1:	NSECT=	33:	NNSW=	0:	89	869	863
4706	NMAT=	1:	NSECT=	33:	NNSW=	0:	863	73	89
4707	NMAT=	1:	NSECT=	33:	NNSW=	0:	73	863	862
4708	NMAT=	1:	NSECT=	33:	NNSW=	0:	73	862	60
4709	NMAT=	1:	NSECT=	33:	NNSW=	0:	60	862	46
4710	NMAT=	1:	NSECT=	33:	NNSW=	0:	46	862	861
4711	NMAT=	1:	NSECT=	33:	NNSW=	0:	46	861	30
4712	NMAT=	1:	NSECT=	33:	NNSW=	0:	30	861	865
4713	NMAT=	1:	NSECT=	33:	NNSW=	0:	30	865	12
4714	NMAT=	1:	NSECT=	33:	NNSW=	0:	12	865	864
4715	NMAT=	1:	NSECT=	33:	NNSW=	0:	931	268	285
4716	NMAJ=	1:	NSECT=	33:	NNSW=	0:	919	931	285
4717	NMAT=	1:	NSECT=	33:	NNSW=	0:	919	285	930
4718	NMAT=	1:	NSECT=	33:	NNSW=	0:	930	285	301
4719	NMAT=	1:	NSECT=	33:	NNSW=	0:	930	301	929
4720	NMAT=	1:	NSECT=	33:	NNSW=	0:	929	301	316
4721	NMAT=	1:	NSECT=	33:	NNSW=	0:	929	316	928
4722	NMAJ=	1:	NSECT=	33:	NNSW=	0:	928	316	927
4723	NMAT=	1:	NSECT=	33:	NNSW=	0:	927	316	334
4724	NMAT=	1:	NSECT=	33:	NNSW=	0:	927	334	926
4725	NMAT=	1:	NSECT=	33:	NNSW=	0:	926	334	333
4726	NMAT=	1:	NSECT=	33:	NNSW=	0:	926	333	925
4727	NMAT=	1:	NSECT=	33:	NNSW=	0:	925	333	937
4728	NMAJ=	1:	NSECT=	33:	NNSW=	0:	937	333	332
4729	NMAT=	1:	NSECT=	33:	NNSW=	0:	88	87	870
4730	NMAT=	1:	NSECT=	33:	NNSW=	0:	870	87	877

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4731	NMAT=	1:	NSECT=	33:	NNSW=	0:	87	878	877
4732	NMAT=	1:	NSECT=	33:	NNSW=	0:	87	59	878
4733	NMAT=	1:	NSECT=	33:	NNSW=	0:	59	879	878
4734	NMAT=	1:	NSECT=	33:	NNSW=	0:	59	45	879
4735	NMAT=	1:	NSECT=	33:	NNSW=	0:	45	880	879
4736	NMAT=	1:	NSECT=	33:	NNSW=	0:	45	881	880
4737	NMAT=	1:	NSECT=	33:	NNSW=	0:	28	881	45
4738	NMAT=	1:	NSECT=	33:	NNSW=	0:	28	882	881
4739	NMAT=	1:	NSECT=	33:	NNSW=	0:	28	29	882
4740	NMAT=	1:	NSECT=	33:	NNSW=	0:	29	871	882
4741	NMAT=	1:	NSECT=	33:	NNSW=	0:	29	864	871
4742	NMAT=	1:	NSECT=	33:	NNSW=	0:	29	12	864
4743	NMAT=	1:	NSECT=	45:	NNSW=	0:	1475	1476	1802
4744	NMAT=	1:	NSECT=	45:	NNSW=	0:	1802	1803	1475
4745	NMAT=	1:	NSECT=	45:	NNSW=	0:	1779	1778	1023
4746	NMAT=	1:	NSECT=	45:	NNSW=	0:	1023	1024	1779
4747	NMAT=	1:	NSECT=	45:	NNSW=	0:	1475	1803	1492
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4749	NMAT=	1:	NSECT=	45:	NNSW=	0:	1779	1024	1025
4750	NMAT=	1:	NSECT=	45:	NNSW=	0:	1779	1025	1780
4751	NMAT=	1:	NSECT=	25:	NNSW=	0:	1023	1778	1772
4752	NMAT=	1:	NSECT=	25:	NNSW=	0:	1023	1772	1037
4753	NMAT=	1:	NSECT=	25:	NNSW=	0:	1037	1772	1050
4754	NMAT=	1:	NSECT=	25:	NNSW=	0:	1050	1772	1771
4755	NMAT=	1:	NSECT=	25:	NNSW=	0:	1771	1062	1050
4756	NMAT=	1:	NSECT=	25:	NNSW=	0:	1062	1771	1770
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4792	NMAT=	1:	NSECT=	32:	NNSW=	0:	1808	1814	1807
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4799	NMAT=	1:	NSECT=	45:	NNSW=	0:	592	976	611
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4846	NMAT=	1:	NSECT=	36:	NNSW=	0:	975	986	974
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4851	NMAT=	1:	NSECT=	31:	NNSW=	0:	362	363	384
4852	NMAT=	1:	NSECT=	31:	NNSW=	0:	364	365	385
4853	NMAT=	1:	NSECT=	31:	NNSW=	0:	365	366	385
4854	NMAT=	1:	NSECT=	31:	NNSW=	0:	367	368	386
4855	NMAT=	1:	NSECT=	31:	NNSW=	0:	368	369	386
4856	NMAT=	1:	NSECT=	31:	NNSW=	0:	370	371	387
4857	NMAT=	1:	NSECT=	31:	NNSW=	0:	371	372	387
4858	NMAT=	1:	NSECT=	31:	NNSW=	0:	373	374	388
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5229	NMAT=	1:	NSECT=	31:	NNSW=	0:	828	713	714
5230	NMAT=	1:	NSECT=	31:	NNSW=	0:	828	714	715
5231	NMAT=	1:	NSECT=	31:	NNSW=	0:	829	716	717
5232	NMAT=	1:	NSECT=	36:	NNSW=	0:	718	719	1588
5233	NMAT=	1:	NSECT=	36:	NNSW=	0:	718	1588	1589
5234	NMAT=	1:	NSECT=	36:	NNSW=	0:	718	1589	1590
5235	NMAT=	1:	NSECT=	36:	NNSW=	0:	718	1590	723
5236	NMAT=	1:	NSECT=	25:	NNSW=	0:	719	724	1591
5237	NMAT=	1:	NSECT=	25:	NNSW=	0:	719	1591	1588
5238	NMAT=	1:	NSECT=	25:	NNSW=	0:	1588	1591	1592
5239	NMAT=	1:	NSECT=	25:	NNSW=	0:	1588	1592	1589
5240	NMAT=	1:	NSECT=	25:	NNSW=	0:	1589	1592	1593
5241	NMAT=	1:	NSECT=	25:	NNSW=	0:	1589	1593	1594
5242	NMAT=	1:	NSECT=	25:	NNSW=	0:	1589	1594	1590
5243	NMAT=	1:	NSECT=	25:	NNSW=	0:	1590	1594	1595

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5244	NMAT=	1:	NSECT=	25:	NNSW=	0:	1590	1595	723
5245	NMAT=	1:	NSECT=	25:	NNSW=	0:	723	1595	730
5246	NMAT=	1:	NSECT=	31:	NNSW=	0:	752	757	1614
5247	NMAT=	1:	NSECT=	31:	NNSW=	0:	752	1614	1611
5248	NMAT=	1:	NSECT=	31:	NNSW=	0:	1611	1614	1615
5249	NMAT=	1:	NSECT=	31:	NNSW=	0:	1611	1615	1612
5250	NMAT=	1:	NSECT=	31:	NNSW=	0:	1612	1615	1616
5251	NMAT=	1:	NSECT=	31:	NNSW=	0:	1616	1617	1612
5252	NMAT=	1:	NSECT=	31:	NNSW=	0:	1612	1617	1613
5253	NMAT=	1:	NSECT=	31:	NNSW=	0:	1613	1617	1618
5254	NMAT=	1:	NSECT=	31:	NNSW=	0:	1613	1618	756
5255	NMAT=	1:	NSECT=	31:	NNSW=	0:	756	1618	763
5256	NMAT=	1:	NSECT=	36:	NNSW=	0:	771	776	1627
5257	NMAT=	1:	NSECT=	36:	NNSW=	0:	771	1627	1624
5258	NMAT=	1:	NSECT=	36:	NNSW=	0:	1624	1627	1628
5259	NMAT=	1:	NSECT=	36:	NNSW=	0:	1624	1628	1625
5260	NMAT=	1:	NSECT=	36:	NNSW=	0:	1625	1628	1629
5261	NMAT=	1:	NSECT=	36:	NNSW=	0:	1625	1629	1630
5262	NMAT=	1:	NSECT=	36:	NNSW=	0:	1625	1630	1626
5263	NMAT=	1:	NSECT=	36:	NNSW=	0:	1626	1630	1631
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5265	NMAT=	1:	NSECT=	36:	NNSW=	0:	775	1631	782
5266	NMAT=	1:	NSECT=	36:	NNSW=	0:	790	795	1640
5267	NMAT=	1:	NSECT=	36:	NNSW=	0:	790	1640	1637
5268	NMAT=	1:	NSECT=	36:	NNSW=	0:	1637	1640	1641
5269	NMAT=	1:	NSECT=	36:	NNSW=	0:	1637	1641	1638
5270	NMAT=	1:	NSECT=	36:	NNSW=	0:	1638	1641	1642
5271	NMAT=	1:	NSECT=	36:	NNSW=	0:	1638	1642	1643
5272	NMAT=	1:	NSECT=	36:	NNSW=	0:	1638	1643	1639
5273	NMAT=	1:	NSECT=	36:	NNSW=	0:	1639	1643	1644
5274	NMAT=	1:	NSECT=	36:	NNSW=	0:	1639	1644	794
5275	NMAT=	1:	NSECT=	36:	NNSW=	0:	794	1644	801
5276	NMAT=	1:	NSECT=	29:	NNSW=	0:	816	699	1571
5277	NMAT=	1:	NSECT=	29:	NNSW=	0:	1655	1572	1573
5278	NMAT=	1:	NSECT=	29:	NNSW=	0:	1655	1573	1574
5279	NMAT=	1:	NSECT=	29:	NNSW=	0:	1656	1575	1576
5280	NMAT=	1:	NSECT=	29:	NNSW=	0:	1656	1576	1577
5281	NMAT=	1:	NSECT=	29:	NNSW=	0:	1657	1578	1579
5282	NMAT=	1:	NSECT=	29:	NNSW=	0:	1657	1579	1580
5283	NMAT=	1:	NSECT=	29:	NNSW=	0:	1658	1581	1582
5284	NMAT=	1:	NSECT=	29:	NNSW=	0:	1658	1582	1583
5285	NMAT=	1:	NSECT=	29:	NNSW=	0:	1659	1584	1585
5286	NMAT=	1:	NSECT=	29:	NNSW=	0:	1659	1585	1586
5287	NMAT=	1:	NSECT=	29:	NNSW=	0:	822	1587	717
5288	NMAT=	1:	NSECT=	31:	NNSW=	0:	823	699	1571
5289	NMAT=	1:	NSECT=	31:	NNSW=	0:	1660	1572	1573
5290	NMAT=	1:	NSECT=	31:	NNSW=	0:	1660	1573	1574
5291	NMAT=	1:	NSECT=	31:	NNSW=	0:	1661	1575	1576
5292	NMAT=	1:	NSECT=	31:	NNSW=	0:	1661	1576	1577
5293	NMAT=	1:	NSECT=	31:	NNSW=	0:	1662	1578	1579
5294	NMAT=	1:	NSECT=	31:	NNSW=	0:	1662	1579	1580
5295	NMAT=	1:	NSECT=	31:	NNSW=	0:	1663	1581	1582
5296	NMAT=	1:	NSECT=	31:	NNSW=	0:	1663	1582	1583
5297	NMAT=	1:	NSECT=	31:	NNSW=	0:	1664	1584	1585
5298	NMAT=	1:	NSECT=	31:	NNSW=	0:	1664	1585	1586
5299	NMAT=	1:	NSECT=	31:	NNSW=	0:	829	1587	717
5300	*(BN)								

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5301	1.7	21
5302	228,235	1
5303	469,475	
5304	988,992	
5305	1171,1175	
5306	1367,1371	
5307	*	

ENDHMM

APRT, S MCC. ALL

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.MEOLEYBIN202*MCC(1).ALL
1      *(29 MCC DATA 1)                               ENDMCC
2      G=386.,MNAME=CEM,HICORE=130000
3      *(TAB)
4      START_372
5      MATERIAL CONSTANTS
6      1 29.516 0.29 0.4086.5 DENSITY CHANGED PER CTW 277783 BY MJF
7      2 18.4+6 0.35 0.33 1.05-5 1.05-5% NARLOY 2
8      JOINT LOCATIONS%
9      FORMAT=28
10     1 9.600 0.0 0.000 9.600 340.0 0.000 18 1% JACKET JOINTS
11     19 8.657 0.0 1.135 8.657 340.0 1.135 18 1% JACKET JOINTS
12     37 8.657 0.0 1.895 8.657 340.0 1.895 18 1% JACKET JOINTS
13     55 7.166 0.0 2.942 7.166 340.0 2.942 18 1% JACKET JOINTS
14     73 6.017 0.0 4.485 6.017 340.0 4.485 18 1% JACKET JOINTS
15     91 5.567 0.0 6.414 5.567 340.0 6.414 18 1% JACKET JOINTS
16     109 5.825 0.0 7.785 5.825 340.0 7.785 18 1% JACKET JOINTS
17     127 6.305 0.0 8.785 6.305 340.0 8.785 18 1% JACKET JOINTS
18     145 7.064 0.0 10.285 7.064 340.0 10.285 18 1% JACKET JOINTS
19     163 8.114 0.0 12.488 8.114 340.0 12.488 18 1% JACKET JOINTS
20     181 8.657 0.0 13.785 8.657 340.0 13.785 18 1% JACKET JOINTS
21     199 8.657 0.0 12.410 8.657 340.0 12.410 18 1% JACKET JOINTS
22     217 9.352 0.0 16.258 9.352 340.0 16.258 18 1% JACKET JOINTS
23     235 10.00 0.0 18.985 10.00 340.0 18.985 18 1% JACKET JOINTS
24     253 8.657 0.0 4.524 8.657 340.0 4.524 18 1% THROAT RING JOINTS
25     271 8.657 0.0 7.153 8.657 340.0 7.153 18 1% THROAT RING JOINTS
26     289 8.657 0.0 9.781 8.657 340.0 9.781 18 1% THROAT RING JOINTS
27     307 11.0 0.0 -2.035 11.0 340.0 -2.035 18 1% LOWER RING JOINTS
28     325 10.0 0.0 20.138 10.0 340.0 20.138 18 1% UPPER RING JOINTS
29     343 10.7 0.0 21.522 10.70 330.0 21.522 12 1% UPPER RING JOINTS
30     355 13.0 0.0 -2.355 13.00 340.0 -2.355 18 1% LOWER RING JOINTS
31     BEAM ORIENTATIONS
32     1 1 3 +1 1.0
33     BEAM RIGID LINKS
34     1, -1, 1.37, 0.0, 0.0 -1, 1.37, 0.0, 0.0
35     2, -1, 1.125, 0.0, 0.0 -1, 1.125, 0.0, 0.0
36     E21 SECTION PROPERTIES
37     BOX 1, 0.54, 0.71 1.42, 0.275
38     BOX 2, 1.3, 0.65 1.3, 0.65
39     SA(3)
40     FORMAT=LAHINATES
41     1% 2-COORDINATES 0.0 TO 1.35
42     0.0 0.0 0.3>
43     9.70+6 2.81+6 9.70+6 0.0 0.0 3.15+6>
44     7.12+4 2.49+4 7.12+4 0.0 0.0 2.32+4$
45     0.263 0.0 0.226>
46     4.16+6 0.0 0.0 0.0 0.0 0.0>
47     1.77+6 0.0 0.0 0.0 0.0 0.0>
48     0.393 0.0 0.035>
49     7.34+5 2.57+5 7.34+5 0.0 0.0 2.39+5>
50     74.9 26.2 74.9 0.0 0.0 24.3$
51     2% 2-COORDINATES 1.35 TO 2.942
52     0.0 0.0 0.077>
53     2.49+6 7.22+5 2.49+6 0.0 0.0 8.83+5>
54     1.20+3 348.0 1.20+3 0.0 0.0 426.0$
55     0.145 0.0 0.213>
56     3.92+6 0.0 0.0 0.0 0.0 0.0>
    
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57	1.98+4	0.0	0.0	0.0	0.0	0.0	0.0
58	0.307	0.0	0.35>				
59	7.34+5	2.57+5	7.34+5	0.0	0.0	2.39+5>	
60	74.9	26.2	74.9	0.0	0.0	24.38	
61	3% Z-COORDINATES 2.942 TO 4.785						
62	0.0	0.0	0.092>				
63	2.97+6	8.61+5	2.97+6	0.0	0.0	9.66+5>	
64	2.05+3	594.0	2.05+3	0.0	0.0	729.08	
65	0.144	0.0	0.197>				
66	3.62+6	0.0	0.0	0.0	0.0	0.0>	
67	1.17+4	0.0	0.0	0.0	0.0	0.08	
68	0.26	0.0	0.035>				
69	7.34+5	2.57+5	7.34+5	0.0	0.0	2.39+5>	
70	74.9	26.2	74.9	0.0	0.0	24.38	
71	4% Z-COORDINATES 4.485 TO 6.414						
72	0.0	0.0	0.35>				
73	1.13+7	3.28+6	1.13+7	0.0	0.0	4.01+6>	
74	1.13+5	3.28+4	1.13+5	0.0	0.0	4.01+48	
75	0.269	0.0	0.188>				
76	3.46+6	0.0	0.0	0.0	0.0	0.0>	
77	1.02+4	0.0	0.0	0.0	0.0	0.8	
78	0.377	0.0	0.028>				
79	5.87+5	2.05+5	5.87+5	0.0	0.0	1.91+5>	
80	38.35	13.42	38.35	0.0	0.0	12.468	
81	5% Z-COORDINATES 6.414 TO 7.785						
82	0.0	0.0	0.35>				
83	1.13+7	3.28+6	1.13+7	0.0	0.0	4.01+6>	
84	1.13+5	3.28+4	1.13+5	0.0	0.0	4.01+48	
85	0.228	0.0	0.107>				
86	1.97+6	0.0	0.0	0.0	0.0	0.0>	
87	1.88+3	0.0	0.0	0.0	0.0	0.08	
88	0.296	0.0	0.028>				
89	5.87+5	2.05+5	5.87+5	0.0	0.0	1.91+5>	
90	38.35	13.42	38.35	0.0	0.0	12.468	
91	6% Z-COORDINATES 7.785 TO 8.785						
92	0.0	0.0	0.177>				
93	5.72+6	1.66+6	5.72+6	0.0	0.0	2.03+6>	
94	1.46+4	4.23+3	1.46+4	0.0	0.0	5.18+38	
95	0.134	0.0	0.092>				
96	1.69+6	0.0	0.0	0.0	0.0	0.0>	
97	1.19+3	0.0	0.0	0.0	0.0	0.08	
98	0.194	0.0	0.028>				
99	5.87+5	2.05+5	5.87+5	0.0	0.0	1.91+5>	
100	38.35	13.42	38.35	0.0	0.0	12.468	
101	7% Z-COORDINATE 8.785 TO 10.285						
102	0.0	0.0	0.213>				
103	6.88+6	2.00+6	6.88+6	0.0	0.0	2.44+6>	
104	2.55+4	7.40+3	2.55+4	0.0	0.0	9.05+38	
105	0.148	0.0	0.084>				
106	1.55+6	0.0	0.0	0.0	0.0	0.0>	
107	908.6	0.0	0.0	0.0	0.0	0.08	
108	0.204	0.0	0.028>				
109	5.87+5	2.05+5	5.87+5	0.0	0.0	1.91+5>	
110	38.35	13.42	38.35	0.0	0.0	12.468	
111	8% Z-COORDINATE 10.285 TO 12.488						
112	0.0	0.0	0.241>				
113	7.79+6	2.26+6	7.79+6	0.0	0.0	2.77+6>	

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114 3.69+4 1.07+4 3.69+4 0.0 0.0 1.31+4
115 0.174 0.0 0.108>
116 1.99+6 0.0 0.0 0.0 0.0 0.0>
117 1.93+3 0.0 0.0 0.0 0.0 0.0$
118 0.242 0.0 0.108>
119 5.87+5 2.05+5 5.87+5 0.0 0.0 1.91+5>
120 38.35 13.42 38.35 0.0 0.0 12.46$
121 9% Z-COORDINATE 12.488 TO 13.785
122 0.0 0.0 0.255>
123 8.24+6 2.39+6 8.24+6 0.0 0.0 2.93+6>
124 4.38+4 1.27+4 4.38+4 0.0 0.0 1.55+4$
125 0.177 0.0 0.1>
126 1.84+6 0.0 0.0 0.0 0.0 0.0>
127 1.84+3 0.0 0.0 0.0 0.0 0.0$
128 0.245 0.0 0.35>
129 7.34+5 2.57+5 7.34+5 0.0 0.0 2.39+5>
130 74.9 26.2 74.9 0.0 0.0 24.3$
131 10% Z-COORDINATE 13.785 TO 16.258
132 0.0 0.0 0.293>
133 9.47+6 2.75+6 9.47+6 0.0 0.0 3.36+6>
134 6.64+4 1.93+4 6.64+4 0.0 0.0 2.36+4$
135 0.195 0.0 0.098>
136 1.80+6 0.0 0.0 0.0 0.0 0.0>
137 1.44+3 0.0 0.0 0.0 0.0 0.0$
138 0.262 0.0 0.035>
139 7.34+5 2.57+5 7.34+5 0.0 0.0 2.39+5>
140 74.9 26.2 74.9 0.0 0.0 24.3$
141 11% Z-COORDINATE 16.258 TO 18.985
142 0.0 0.0 0.382>
143 1.23+7 3.57+6 1.23+7 0.0 0.0 4.38+6>
144 1.47+5 4.26+4 1.47+5 0.0 0.0 5.22+4$
145 0.24 0.0 0.098>
146 1.80+6 0.0 0.0 0.0 0.0 0.0>
147 1.44+3 0.0 0.0 0.0 0.0 0.0$
148 0.306 0.0 0.035>
149 7.34+5 2.57+5 7.34+5 0.0 0.0 2.39+5>
150 74.9 26.2 74.9 0.0 0.0 24.3$
151 FORMAT=ISOTROPICS
152 12, 0.30$ THROAT RING CONNECTION
153 13, 0.135$ THROAT RING
154 FORMAT=LAMINATES
155 14% Z-COORDINATE -2.035 TO 0.0
156 0.0 0.0 0.80>
157 2.59+7 7.51+6 2.59+7 0.0 0.0 9.18+6>
158 1.35+6 3.91+5 1.35+6 0.0 0.0 4.80+5$
159 0.59 0.0 0.24>
160 4.42+6 0.0 0.0 0.0 0.0 0.0>
161 2.12+4 0.0 0.0 0.0 0.0 0.0$
162 0.724 0.0 0.035>
163 7.34+4 2.57+5 7.34+5 0.0 0.0 2.39+5>
164 74.9 26.2 74.9 0.0 0.0 24.3$
165 FORMAT=ISOTROPICS
166 15, 1.0$ UPPER RING
167 16, 1.6$ UPPER RING
168 17, 0.5$ LOWER RING
169 W(1): .138, .0696, .0714, .1442, .1309, .077, .0864; W(8): .0986$
170 W(9): .1038, .1148; W(11): .1413$

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171 M(19): .2868
172 CONSTRAINT DEFINITION 1
173 $
174 $ NO CONSTRAINTS
175 JOINT ELIMINATION SEQUENCE
176 355/372 307/324 1/18
177 19/36 37/54 55/72
178 73/90 91/108 109/126
179 127/144 145/162 253/270
180 271/288 289/306 163/180
181 181/198 199/216 217/234
182 235/252 325/342 343/354
183 *(ELO)
184 E21
185 GROUP 18 BOTTOM RING
186 NMAT=18
187 NSECT=1
188 NOFF=18
189 307 308: 308 309: 309 310: 310 311: 311 312: 312 313: 313 314:
190 314 315: 315 316: 316 317: 317 318: 318 319: 319 320: 320 321:
191 321 322: 322 323: 323 324: 324 307:
192 GROUP 28 TOP RING
193 NSECT=2
194 NOFF=28
195 325 326: 326 327: 327 328: 328 329: 329 330: 330 331: 331 332:
196 332 333: 333 334: 334 335: 335 336: 336 337: 337 338: 338 339:
197 339 340: 340 341: 341 342: 342 325:
198 E43
199 GROUP 1 JACKET
200 NSECT=18
201 1 19 20 2 2 18 18
202 NSECT=28
203 19 55 56 20 2 18 18
204 NSECT=38
205 55 73 74 56 2 18 18
206 NSECT=48
207 73 91 92 74 2 18 18 THICKENED THROAT SECTION
208 NSECT=58
209 91 109 110 92 2 18 18 THICKENED THROAT SECTION
210 NSECT=68
211 109 127 128 110 2 18 18
212 NSECT=78
213 127 145 146 128 2 18 18
214 NSECT=88
215 145 163 164 146 2 18 18
216 NSECT=98
217 163 181 182 164 2 18 18
218 NSECT=108
219 181 217 218 182 2 18 18
220 NSECT=118
221 217 235 236 218 2 18 18
222 NSECT=12
223 19 37 38 20 2 18 18 THROAT RING CONNECTION
224 199 181 182 200 2 18 18 THROAT RING CONNECTION
225 GROUP 2 THROAT RING
226 NSECT=13
227 37 253 254 38 2 18 18 THROAT RING

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228      253 271 272 254 2 18 1% THROAT RING
229      271 289 290 272 2 18 1% THROAT RING
230      289 199 200 290 2 18 1% THROAT RING
231      GROUP 3% BOTTOM RING
232      NSECT=14
233      307 1 2 308 2 18 1% LOWER RING E43
234      GROUP 4% TOP RING
235      NSECT=15
236      235 325 326 236 2 18 1% UPPER RING E43
237      NSECT=17
238      355 307 308 356 2 18 1% LOWER RING E43
239      C33 % PER CTM 5/29/83
240      NSECT=16
241      326 327 344
242      329 330 346
243      332 333 348
244      335 336 350
245      338 339 352
246      341 342 354
247      343 344 326
248      344 345 327
249      345 346 329
250      346 347 330
251      347 348 332
252      348 349 333
253      349 350 335
254      350 351 336
255      351 352 338
256      352 353 339
257      353 354 341
258      354 343 342
259      325 326 343
260      327 328 345
261      328 329 345
262      330 331 347
263      331 332 347
264      333 334 349
265      334 335 349
266      336 337 351
267      337 338 351
268      339 340 353
269      340 341 353
270      342 325 343
271      * (BN)
272      343,354 % UPPER INTERFACE NODES TO HGM
273      355,372 % LOWER INTERFACE NODES TO NOZ5
274      * ENDHCC
    
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BPRT,S HPOTP,ALL

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*(29 MPOTP DATA 1) ENMPOTP									
G=386.,SEQ=0,MICORE=150000.									
*(ITAB)									
START 1069-S.MPOTP									
TITLE* MPOTP CHECKOUT									
ALJREF									
FORMAT=1									
2 1 -90.0000 2 109.2029 3 180.0000 -1.811045 -4.76761 10.075									
\$									
\$ ***** ALJREF 2 CHANGED 3/24/83 BY M. FOLEY PER M. TILLEY *****									
\$ ***** ALJREF 7 IS NO GOOD , BUT IS NOT USED ANYWAY *****									
\$									
3 1 180.0000 2 180.0000 3 220.1999 .000 .000 .000									
4 1 180.0000 2 180.0000 3 220.1999 .000 .000 10.075									
5 1 .0000 2 180.0000 3 180.0000 .000 .000 10.075									
6 1 .0000 2 .0000 3 .0000 .000 .000 10.075									
7 1 -90.0000 2 0. 3 180.0000 -3.279 3.093 10.075									
8 1 -90.0000 2 -90.0000 3 -90.0000 10.150 .000 10.075									
JLOC									
NREF= 2									
1 .265000+01 .000000 -.924000+018									
2 .214390+01 .155763+01 -.924000+018									
3 .818895+00 .252030+01 -.924000+018									
4 -.818895+00 .252030+01 -.924000+018									
5 -.214390+01 .155763+01 -.924000+018									
6 -.265000+01 .842342-07 -.924000+018									
7 -.214390+01 -.155763+01 -.924000+018									
8 -.818895+00 -.252030+01 -.924000+018									
9 .818895+00 -.252030+01 -.924000+018									
10 .214390+01 -.155763+01 -.924000+018									
11 .228000+01 .000000 -.830900+018									
12 .184456+01 .134015+01 -.830900+018									
13 .704559+00 .216841+01 -.830900+018									
14 -.704559+00 .216841+01 -.830900+018									
15 -.184456+01 .134015+01 -.830900+018									
16 -.228000+01 .724732-07 -.830900+018									
17 -.184456+01 -.134015+01 -.830900+018									
18 -.704559+00 -.216841+01 -.830900+018									
19 .704559+00 -.216841+01 -.830900+018									
20 .184456+01 -.134015+01 -.830900+018									
21 .150000+01 .000000 -.695900+018									
22 .149668+01 .108740+01 -.695900+018									
23 .686018+00 .211135+01 -.695900+018									
24 -.686018+00 .211135+01 -.695900+018									
25 -.173939+01 .126374+01 -.695900+018									
26 -.218000+01 .692946-07 -.695900+018									
27 -.173939+01 .126374+01 -.695900+018									
28 -.686018+00 -.211135+01 -.695900+018									
29 .686018+00 -.211135+01 -.695900+018									
30 .149668+01 -.108740+01 -.695900+018									
31 .250000+01 .000000 -.570900+018									
32 .173939+01 .126374+01 -.570900+018									
33 .695288+00 .213988+01 -.570900+018									
34 -.655116+00 .201624+01 -.570900+018									
35 -.173939+01 .126374+01 -.570900+018									
36 -.211000+01 .670695-07 -.570900+018									

ORIGINAL PAGE IS
OF POOR QUALITY

57	37	-.173939+01	-.126374+01	-.570900+01\$
58	38	-.655116+00	-.201624+01	-.570900+01\$
59	39	.695288+00	-.213988+01	-.570900+01\$
60	40	.173939+01	-.126374+01	-.570900+01\$
61	41	.156000+01	.000000	-.435000+01\$
62	42	.161803+01	.117557+01	-.445900+01\$
63	43	.686018+00	.211135+01	-.445900+01\$
64	44	-.664387+00	.204477+01	-.445900+01\$
65	45	-.173939+01	.126374+01	-.445900+01\$
66	46	-.215000+01	.683410-07	-.445900+01\$
67	47	-.173939+01	-.126374+01	-.445900+01\$
68	48	-.664387+00	-.204477+01	-.445900+01\$
69	49	.686018+00	-.211135+01	-.445900+01\$
70	50	.161803+01	-.117557+01	-.445900+01\$
71	51	.117820+01	.549404+00	-.233900+01\$
72	52	.123780+01	.899311+00	-.233900+01\$
73	53	.820388+00	.203053+01	-.233900+01\$
74	54	-.652026+00	.200673+01	-.233900+01\$
75	55	-.170703+01	.124023+01	-.233900+01\$
76	56	-.215000+01	.683410-07	-.233900+01\$
77	57	-.170703+01	-.124023+01	-.233900+01\$
78	58	-.652026+00	-.200673+01	-.233900+01\$
79	59	.820388+00	-.203053+01	-.233900+01\$
80	60	.123780+01	-.899311+00	-.233900+01\$
81	61	.102413+01	.477559+00	-.220000+00\$
82	62	.661530+00	.230703+01	-.250000+00\$
83	63	-.679837+00	.209232+01	-.330000+00\$
84	64	-.161803+01	.117557+01	-.380000+00\$
85	65	-.198000+01	.629373-07	-.420000+00\$
86	66	-.161803+01	-.117557+01	-.380000+00\$
87	67	-.679837+00	-.209232+01	-.310000+00\$
88	68	.661530+00	-.230703+01	-.250000+00\$
89	69	.102413+01	.477559+00	-.220000+00\$
90	70	.728115+00	.529007+00	-.233900+01\$
91	71	.650000+00	.000000	-.233900+01\$
92	72	.728115+00	-.529007+00	-.233900+01\$
93	73	.117820+01	-.549404+00	-.233900+01\$
94	74	.700000+01	.000000	-.742000+01\$
95	75	.695483+01	.700315+00	-.765000+01\$
96	76	.679849+01	.117919+01	-.825000+01\$
97	77	.659535+01	.117956+01	-.900000+01\$
98	78	.645216+01	.699790+00	-.960000+01\$
99	79	.640000+01	.000000	-.982000+01\$
100	80	.645216+01	-.699790+00	-.960000+01\$
101	81	.659535+01	-.117956+01	-.900000+01\$
102	82	.679849+01	-.117919+01	-.825000+01\$
103	83	.695483+01	-.700315+00	-.765000+01\$
104	84	.490000+01	.000000	-.715000+01\$
105	85	.486944+01	.629837+00	-.722000+01\$
106	86	.470409+01	.118071+01	-.768000+01\$
107	87	.444636+01	.117893+01	-.840000+01\$
108	88	.429399+01	.630253+00	-.885000+01\$
109	89	.428000+01	.000000	-.890000+01\$
110	90	.429399+01	-.630253+00	-.885000+01\$
111	91	.444636+01	-.117893+01	-.840000+01\$
112	92	.470409+01	-.118071+01	-.768000+01\$
113	93	.486944+01	-.629837+00	-.722000+01\$

ORIGINAL PAGE IS
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114	94	.405000+01	.000000	-.690000+01
115	95	.404869+01	.579819+00	-.690000+01
116	96	.384147+01	.115030+01	-.728000+01
117	97	.349610+01	.114878+01	-.796000+01
118	98	.329941+01	.579994+00	-.838000+01
119	99	.330000+01	.000000	-.838000+01
120	100	.329791+01	-.579994+00	-.838000+01
121	101	.349610+01	-.114878+01	-.796000+01
122	102	.384147+01	-.115030+01	-.728000+01
123	103	.404869+01	-.579819+00	-.690000+01
124	104	.320000+01	.000000	-.655000+01
125	105	.320306+01	.550386+00	-.655000+01
126	106	.300396+01	.113151+01	-.688000+01
127	107	.259548+01	.112801+01	-.748000+01
128	108	.239782+01	.549614+00	-.778000+01
129	109	.239780+01	.000000	-.778000+01
130	110	.239782+01	-.549614+00	-.778000+01
131	111	.259548+01	-.112801+01	-.748000+01
132	112	.300396+01	-.113151+01	-.688000+01
133	113	.320306+01	-.550386+00	-.655000+01
134	114	.239747+01	.499398+00	-.583900+01
135	115	.211771+01	.101873+01	-.616900+01
136	116	.172024+01	.102019+01	-.670900+01
137	117	.172024+01	-.102019+01	-.670900+01
138	118	.211771+01	-.101873+01	-.616900+01
139	119	.239747+01	-.499398+00	-.583900+01
140	120	.145171+01	.450490+00	-.188000+01
141	121	.145171+01	-.450490+00	-.188000+01
142	122	.246932+01	.450087+00	-.315000+01
143	123	.241659+01	.748985+00	-.320000+01
144	124	.174244+01	.650778+00	-.395000+01
145	125	.154424+01	.378729+00	-.415000+01
146	126	.154424+01	-.378729+00	-.415000+01
147	127	.174244+01	-.650778+00	-.395000+01
148	128	.241659+01	-.748985+00	-.320000+01
149	129	.246932+01	-.450087+00	-.315000+01
150	130	.402484+01	.450747+00	-.396000+01
151	131	.400159+01	.980663+00	-.407000+01
152	132	.372179+01	.860612+00	-.500000+01
153	133	.359546+01	.499551+00	-.552000+01
154	134	.355000+01	.000000	-.572000+01
155	135	.359546+01	-.499551+00	-.552000+01
156	136	.372179+01	-.860612+00	-.500000+01
157	137	.400159+01	-.980663+00	-.407000+01
158	138	.402484+01	-.450747+00	-.396000+01
159	139	.578008+01	.480288+00	-.407000+01
160	140	.580115+01	.118026+01	-.418000+01
161	141	.598358+01	.102064+01	-.522000+01
162	142	.607037+01	.600553+00	-.572000+01
163	143	.608000+01	.000000	-.586000+01
164	144	.607037+01	-.600553+00	-.572000+01
165	145	.598358+01	-.102064+01	-.522000+01
166	146	.580115+01	-.118026+01	-.418000+01
167	147	.578008+01	-.480288+00	-.407000+01
168	NREF = 4			
169	148	-.281211+01	-.329256+01	-.470000+00
170	149	-.281211+01	-.329256+01	-.214000+01

ORIGINAL PAGE NO
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171	150	-.398761+01	-.466889+01	-.185000+01\$
172	151	-.437079+01	-.511753+01	-.107000+01\$
173	152	-.450068+01	-.526961+01	.000000 \$
174	153	-.437079+01	-.511753+01	.107000+01\$
175	154	-.398761+01	-.466889+01	.185000+01\$
176	155	-.281211+01	-.329256+01	.214000+01\$
177	156	-.281211+01	-.329256+01	.470000+00\$
178	157	-.122411+01	-.413251+01	-.470000+00\$
179	158	-.122411+01	-.413251+01	-.204000+01\$
180	159	-.172397+01	-.582004+01	-.177000+01\$
181	160	-.188302+01	-.635697+01	-.102000+01\$
182	161	-.194835+01	-.657750+01	.000000 \$
183	162	-.188302+01	-.635697+01	.102000 \$
184	163	-.172397+01	-.582004+01	.177000+01\$
185	164	-.122411+01	-.413251+01	.204000+01\$
186	165	-.122411+01	-.413251+01	.470000+00\$
187	166	.597052+00	-.424825+01	-.470000+00\$
188	167	.597052+00	-.424825+01	-.194000+01\$
189	168	.835038+00	-.594161+01	-.168000+01\$
190	169	.910192+00	-.647635+01	-.970000+00\$
191	170	.936635+00	-.666450+01	.000000 \$
192	171	.910192+00	-.647635+01	.970000+00\$
193	172	.835038+00	-.594161+01	.168000+01\$
194	173	.597052+00	-.424825+01	.194000+01\$
195	174	.597052+00	-.424825+01	.470000+00\$
196	175	.229427+01	-.360128+01	-.470000+00\$
197	176	.229427+01	-.360128+01	-.184000+01\$
198	177	.318619+01	-.500131+01	-.159000+01\$
199	178	.346558+01	-.543987+01	-.920000+00\$
200	179	.356230+01	-.559169+01	.000000 \$
201	180	.346558+01	-.543987+01	.920000+00\$
202	181	.318619+01	-.500131+01	.159000+01\$
203	182	.229427+01	-.360128+01	.184000+01\$
204	183	.230683+01	-.359325+01	.470000+00\$
205	184	.354401+01	-.234573+01	-.470000+00\$
206	185	.354401+01	-.234573+01	-.174000+01\$
207	186	.488657+01	-.323435+01	-.151000+01\$
208	187	.530351+01	-.351032+01	-.870000+00\$
209	188	.544527+01	-.360415+01	.000000 \$
210	189	.530351+01	-.351032+01	.870000+00\$
211	190	.488657+01	-.323435+01	.151000+01\$
212	191	.354401+01	-.234573+01	.174000+01\$
213	192	.354401+01	-.234573+01	.470000+00\$
214	193	.417558+01	-.736268+00	-.470000+00\$
215	194	.417558+01	-.736268+00	-.164000+01\$
216	195	.570204+01	-.100542+01	-.142000+01\$
217	196	.616490+01	-.108704+01	-.820000+00\$
218	197	.633231+01	-.111656+01	.000000 \$
219	198	.616490+01	-.108704+01	.820000+00\$
220	199	.570204+01	-.100542+01	.142000+01\$
221	200	.417558+01	-.736268+00	.164000+01\$
222	201	.417558+01	-.736268+00	.470000+00\$
223	202	.409465+01	.102091+01	-.470000+00\$
224	203	.409465+01	.102091+01	-.154000+01\$
225	204	.555009+01	.138379+01	-.133000+01\$
226	205	.598672+01	.149266+01	-.770000+00\$
227	206	.614197+01	.153137+01	.000000 \$

ORIGINAL PAGE IS
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228	207	.598672+01	.149266+01	.770000+00\$
229	208	.555009+01	.138379+01	.133000+01\$
230	209	.409465+01	.102091+01	.154000+01\$
231	210	.409465+01	.102091+01	.470000+00\$
232	211	.331753+01	.259193+01	.470000+00\$
233	212	.331753+01	.259193+01	-.143000+01\$
234	213	.444438+01	.347233+01	-.124000+01\$
235	214	.478323+01	.373707+01	-.720000+00\$
236	215	.490143+01	.382941+01	.000000 \$
237	216	.478323+01	.373707+01	.720000+00\$
238	217	.444438+01	.347233+01	.124000+01\$
239	218	.331753+01	.259193+01	.143000+01\$
240	219	.331753+01	.259193+01	.470000+00\$
241	220	.199525+01	.375253+01	-.470000+00\$
242	221	.199525+01	.375253+01	-.132000+01\$
243	222	.261496+01	.491802+01	-.114000+01\$
244	223	.280275+01	.527120+01	-.660000+00\$
245	224	.286847+01	.539481+01	.000000 \$
246	225	.280275+01	.527120+01	.660000+00\$
247	226	.261496+01	.491802+01	.114000+01\$
248	227	.199525+01	.375253+01	.132000+01\$
249	228	.199525+01	.375253+01	.470000+00\$
250	229	.300650+00	.429950+01	-.470000+00\$
251	230	.300650+00	.429950+01	-.122000+01\$
252	231	.383661+00	.548660+01	-.106000+01\$
253	232	.410168+00	.586568+01	-.610000+00\$
254	233	.419236+00	.599536+01	.000000 \$
255	234	.410168+00	.586568+01	.610000+00\$
256	235	.383661+00	.548660+01	.106000+01\$
257	236	.300650+00	.429950+01	.122000+01\$
258	237	.300650+00	.429950+01	.470000+00\$
259	NREF= 3			
260	238	-.442560+01	-.253457+01	.100750+02\$
261	239	.143279+00	-.102610+02	.100750+02\$
262	240	.000000	.000000	.100750+02\$
263	NREF= 2			
264	241	.000000	.000000	-.924000+01\$
265	242	.670000+01	.000000	-.865000+01\$
266	NREF= 5			
267	243	.407838+01	-.190178+01	.612000+01\$
268	244	.407838+01	-.190178+01	.457000+01\$
269	245	.676859+01	-.134022+01	.370000+01\$
270	246	.811670+01	-.313197+01	.330000+01\$
271	247	.856892+01	-.361437+01	.230000+01\$
272	248	.850880+01	-.357677+01	.128000+01\$
273	249	.801376+01	-.298029+01	.600000+00\$
274	250	.740171+01	-.212241+01	.700000+00\$
275	251	.676859+01	-.134022+01	.150000+01\$
276	252	.407838+01	-.190178+01	.335000+01\$
277	253	.407838+01	-.190178+01	.270000+01\$
278	254	.279517+01	-.352662+01	.612000+01\$
279	255	.279517+01	-.352662+01	.457000+01\$
280	256	.492690+01	-.342428+01	.390000+01\$
281	257	.798309+01	-.365495+01	.315000+01\$
282	258	.758867+01	-.355479+01	.780000+00\$
283	259	.668472+01	-.350956+01	.105000+01\$
284	260	.492690+01	-.342428+01	.225000+01\$

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285	261	.279517+01	-.352662+01	.335000+01
286	262	.279517+01	-.352662+01	.270000+01
287	263	.118743+01	-.434051+01	.612000+01
288	264	.118743+01	-.434051+01	.457000+01
289	265	.255411+01	-.492738+01	.405000+01
290	266	.581510+01	-.553764+01	.337000+01
291	267	.660684+01	-.558321+01	.270000+01
292	268	.655895+01	-.556239+01	.183000+01
293	269	.555072+01	-.555079+01	.138000+01
294	270	.446197+01	-.539359+01	.148000+01
295	271	.255411+01	-.492738+01	.265000+01
296	272	.118743+01	-.434051+01	.335000+01
297	273	.118743+01	-.434051+01	.270000+01
298	274	-.548412+00	-.446646+01	.612000+01
299	275	-.548412+00	-.446646+01	.457000+01
300	276	.248722+00	-.527414+01	.420000+01
301	277	.392500+01	-.679830+01	.345000+01
302	278	.471816+01	-.686497+01	.282000+01
303	279	.464130+01	-.688101+01	.200000+01
304	280	.369772+01	-.675403+01	.172000+01
305	281	.198466+01	-.629453+01	.176000+01
306	282	.248722+00	-.527414+01	.290000+01
307	283	-.548412+00	-.446646+01	.335000+01
308	284	-.548412+00	-.446646+01	.270000+01
309	285	-.228392+01	-.387733+01	.612000+01
310	286	-.228392+01	-.387733+01	.457000+01
311	287	-.194403+01	-.469331+01	.425000+01
312	288	-.897667+00	-.638723+01	.368000+01
313	289	.535032+00	-.765132+01	.307000+01
314	290	.332815+00	-.762274+01	.236000+01
315	291	-.198244+00	-.709723+01	.205000+01
316	292	-.149597+01	-.558305+01	.225000+01
317	293	-.194403+01	-.469331+01	.300000+01
318	294	-.228392+01	-.387733+01	.335000+01
319	295	-.228392+01	-.387733+01	.270000+01
320	296	-.364519+01	-.263868+01	.612000+01
321	297	-.364519+01	-.263868+01	.457000+01
322	298	-.368490+01	-.349684+01	.428000+01
323	299	-.337878+01	-.547072+01	.383000+01
324	300	-.319241+01	-.600404+01	.340000+01
325	301	-.325792+01	-.587744+01	.279000+01
326	302	-.344212+01	-.530040+01	.249000+01
327	303	-.360532+01	-.449213+01	.266000+01
328	304	-.368490+01	-.349684+01	.298000+01
329	305	-.364519+01	-.263868+01	.335000+01
330	306	-.364519+01	-.263868+01	.270000+01
331	307	-.440490+01	-.920232+00	.612000+01
332	308	-.440490+01	-.920232+00	.457000+01
333	309	-.440490+01	-.920232+00	.442000+01
334	310	-.440490+01	-.920232+00	.427000+01
335	311	-.440490+01	-.920232+00	.411000+01
336	312	-.440490+01	-.920232+00	.396000+01
337	313	-.440490+01	-.920232+00	.381000+01
338	314	-.440490+01	-.920232+00	.366000+01
339	315	-.440490+01	-.920232+00	.350000+01
340	316	-.440490+01	-.920232+00	.335000+01
341	317	-.440490+01	-.920232+00	.270000+01

ORIGINAL PAGE IS
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342	318	-.450000+01	.143039-06	.612000+01
343	319	-.450000+01	.143039-06	.457000+01
344	320	-.450000+01	.143039-06	.442000+01
345	321	-.450000+01	.143039-06	.427000+01
346	322	-.450000+01	.143039-06	.411000+01
347	323	-.450000+01	.143039-06	.396000+01
348	324	-.450000+01	.143039-06	.381000+01
349	325	-.450000+01	.143039-06	.366000+01
350	326	-.450000+01	.143039-06	.350000+01
351	327	-.450000+01	.143039-06	.335000+01
352	328	-.450000+01	.143039-06	.270000+01
353	329	-.440490+01	.920232+00	.612000+01
354	330	-.440490+01	.920232+00	.457000+01
355	331	-.440490+01	.920232+00	.442000+01
356	332	-.440490+01	.920232+00	.427000+01
357	333	-.440490+01	.920232+00	.411000+01
358	334	-.440490+01	.920232+00	.396000+01
359	335	-.440490+01	.920232+00	.381000+01
360	336	-.440490+01	.920232+00	.366000+01
361	337	-.440490+01	.920232+00	.350000+01
362	338	-.440490+01	.920232+00	.335000+01
363	339	-.440490+01	.920232+00	.270000+01
364	340	-.364519+01	.263868+01	.612000+01
365	341	-.364519+01	.263868+01	.457000+01
366	342	-.368490+01	.349684+01	.428000+01
367	343	-.337878+01	.547072+01	.383000+01
368	344	-.319241+01	.600404+01	.340000+01
369	345	-.325792+01	.587744+01	.279000+01
370	346	-.344212+01	.530040+01	.249000+01
371	347	-.360532+01	.449213+01	.266000+01
372	348	-.368490+01	.349684+01	.298000+01
373	349	-.364519+01	.263868+01	.335000+01
374	350	-.364519+01	.263868+01	.270000+01
375	351	-.228392+01	.387733+01	.612000+01
376	352	-.228392+01	.387733+01	.457000+01
377	353	-.194403+01	.469331+01	.425000+01
378	354	-.897666+00	.638723+01	.368000+01
379	355	.535032+00	.765132+01	.307000+01
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382	358	-.149597+01	.558305+01	.225000+01
383	359	-.194403+01	.469331+01	.300000+01
384	360	-.228392+01	.387733+01	.335000+01
385	361	-.228392+01	.387733+01	.270000+01
386	362	-.548412+00	.446646+01	.612000+01
387	363	-.548412+00	.446646+01	.457000+01
388	364	.248722+00	.527414+01	.420000+01
389	365	.392500+01	.679830+01	.345000+01
390	366	.471816+01	.686497+01	.282000+01
391	367	.464130+01	.688101+01	.200000+01
392	368	.369772+01	.675403+01	.172000+01
393	369	.198466+01	.629453+01	.176000+01
394	370	.248722+00	.527414+01	.290000+01
395	371	-.548412+00	.446646+01	.335000+01
396	372	-.548412+00	.446646+01	.270000+01
397	373	.118743+01	.434051+01	.612000+01
398	374	.118743+01	.434051+01	.457000+01

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399	375	.255411+01	.492738+01	.905000+01\$
400	376	.581510+01	.553764+01	.337000+01\$
401	377	.660684+01	.558321+01	.270000+01\$
402	378	.655895+01	.556239+01	.183000+01\$
403	379	.555079+01	.555079+01	.138000+01\$
404	380	.446197+01	.539359+01	.148000+01\$
405	381	.255411+01	.492738+01	.265000+01\$
406	382	.118743+01	.434051+01	.335000+01\$
407	383	.118743+01	.434051+01	.270000+01\$
408	384	.279517+01	.352662+01	.612000+01\$
409	385	.279517+01	.352662+01	.457000+01\$
410	386	.492690+01	.342428+01	.390000+01\$
411	387	.798309+01	.365495+01	.315000+01\$
412	388	.758867+01	.355479+01	.780000+00\$
413	389	.668472+01	.350956+01	.105000+01\$
414	390	.492690+01	.342428+01	.225000+01\$
415	391	.279517+01	.352662+01	.335000+01\$
416	392	.279517+01	.352662+01	.270000+01\$
417	393	.407838+01	.190178+01	.612000+01\$
418	394	.407838+01	.190178+01	.457000+01\$
419	395	.676859+01	.134022+01	.370000+01\$
420	396	.811670+01	.313197+01	.330000+01\$
421	397	.856892+01	.361437+01	.230000+01\$
422	398	.850880+01	.357677+01	.128000+01\$
423	399	.801376+01	.298029+01	.600000+00\$
424	400	.740172+01	.212241+01	.700000+00\$
425	401	.676859+01	.134022+01	.150000+01\$
426	402	.407838+01	.190178+01	.335000+01\$
427	403	.407838+01	.190178+01	.270000+01\$
428	404	.450000+01	.000000	.612000+01\$
429	405	.450000+01	.000000	.457000+01\$
430	406	.813000+01	.000000	.344000+01\$
431	407	.813000+01	.000000	.460000+00\$
432	408	.450000+01	.000000	.335000+01\$
433	409	.450000+01	.000000	.270000+01\$
434	410	.885000+01	.000000	.330000+01\$
435	411	.885278+01	.178021+01	.303000+01\$
436	412	.884632+01	.305813+01	.160000+01\$
437	413	.885269+01	.350146+01	.000000 \$
438	414	.884632+01	.305813+01	.000000 \$
439	415	.885278+01	.178021+01	.000000 \$
440	416	.885000+01	.000000	.000000 \$
441	417	.885278+01	.178021+01	.303000+01\$
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443	419	.885269+01	.350146+01	.000000 \$
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445	421	.885278+01	.178021+01	.000000 \$
446	422	.945226+01	.353029+01	.000000 \$
447	423	.944974+01	.284945+01	.165000+01\$
448	424	.945035+01	.163066+01	.288000+01\$
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450	426	.945035+01	.163066+01	.288000+01\$
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452	428	.945226+01	.353029+01	.000000 \$
453	429	.106522+02	.322622+01	.000000 \$
454	430	.106501+02	.279202+01	.161000+01\$
455	431	.106486+02	.161235+01	.279000+01\$

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456	432	.106500+02	.000000	.323000+01
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463	438	.676859+01	-.134022+01	.370000+01
464	439	.811670+01	-.313197+01	.330000+01
465	440	.856892+01	-.361437+01	.230000+01
466	441	.850880+01	-.357677+01	.128000+01
467	442	.801376+01	-.298029+01	.600000+00
468	443	.740171+01	-.212241+01	.700000+00
469	444	.676859+01	-.134022+01	.150000+01
470	445	.407838+01	-.190178+01	.335000+01
471	446	.407838+01	-.190178+01	.270000+01
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473	448	.279517+01	-.352662+01	.457000+01
474	449	.492690+01	-.342428+01	.390000+01
475	450	.798309+01	-.365495+01	.315000+01
476	451	.758867+01	-.355479+01	.780000+00
477	452	.668472+01	-.350956+01	.105000+01
478	453	.492690+01	-.342428+01	.225000+01
479	454	.279517+01	-.352662+01	.335000+01
480	455	.279517+01	-.352662+01	.270000+01
481	456	.118743+01	-.434051+01	.612000+01
482	457	.118743+01	-.434051+01	.457000+01
483	458	.255411+01	-.492738+01	.405000+01
484	459	.581510+01	-.553764+01	.337000+01
485	460	.660684+01	-.558321+01	.270000+01
486	461	.655895+01	-.556239+01	.183000+01
487	462	.555079+01	-.555079+01	.138000+01
488	463	.446197+01	-.539359+01	.148000+01
489	464	.255411+01	-.492738+01	.265000+01
490	465	.118743+01	-.434051+01	.335000+01
491	466	.118743+01	-.434051+01	.270000+01
492	467	-.548412+00	-.446646+01	.612000+01
493	468	-.548412+00	-.446646+01	.457000+01
494	469	.248722+00	-.527414+01	.420000+01
495	470	.392500+01	-.679830+01	.345000+01
496	471	.471816+01	-.686497+01	.282000+01
497	472	.464130+01	-.688101+01	.200000+01
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499	474	.198466+01	-.629453+01	.176000+01
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502	477	-.548412+00	-.446646+01	.270000+01
503	478	-.228392+01	-.387733+01	.612000+01
504	479	-.228392+01	-.387733+01	.457000+01
505	480	-.194403+01	-.469331+01	.425000+01
506	481	-.897667+00	-.638723+01	.368000+01
507	482	.535032+00	-.765132+01	.307000+01
508	483	.332815+00	-.762274+01	.236000+01
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512	487	-.228392+01	-.387733+01	.335000+01

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513	488	-.228392+01	-.387733+01	.270000+01
514	489	-.364519+01	-.263868+01	.612000+01
515	490	-.364519+01	-.263868+01	.457000+01
516	491	-.368490+01	-.349684+01	.428000+01
517	492	-.337878+01	-.547072+01	.383000+01
518	493	-.319241+01	-.600404+01	.340000+01
519	494	-.325792+01	-.587744+01	.279000+01
520	495	-.344212+01	-.530040+01	.249000+01
521	496	-.360532+01	-.449213+01	.266000+01
522	497	-.368490+01	-.349684+01	.298000+01
523	498	-.364519+01	-.263868+01	.335000+01
524	499	-.364519+01	-.263868+01	.270000+01
525	500	-.440490+01	-.920232+00	.612000+01
526	501	-.440490+01	-.920232+00	.457000+01
527	502	-.440490+01	-.920232+00	.442000+01
528	503	-.440490+01	-.920232+00	.427000+01
529	504	-.440490+01	-.920232+00	.411000+01
530	505	-.440490+01	-.920232+00	.396000+01
531	506	-.440490+01	-.920232+00	.381000+01
532	507	-.440490+01	-.920232+00	.366000+01
533	508	-.440490+01	-.920232+00	.350000+01
534	509	-.440490+01	-.920232+00	.335000+01
535	510	-.440490+01	-.920232+00	.270000+01
536	511	-.450000+01	.143039-06	.612000+01
537	512	-.450000+01	.143039-06	.457000+01
538	513	-.450000+01	.143039-06	.442000+01
539	514	-.450000+01	.143039-06	.427000+01
540	515	-.450000+01	.143039-06	.411000+01
541	516	-.450000+01	.143039-06	.396000+01
542	517	-.450000+01	.143039-06	.381000+01
543	518	-.450000+01	.143039-06	.366000+01
544	519	-.450000+01	.143039-06	.350000+01
545	520	-.450000+01	.143039-06	.335000+01
546	521	-.450000+01	.143039-06	.270000+01
547	522	-.440490+01	-.920232+00	.612000+01
548	523	-.440490+01	-.920232+00	.457000+01
549	524	-.440490+01	-.920232+00	.442000+01
550	525	-.440490+01	-.920232+00	.427000+01
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552	527	-.440490+01	-.920232+00	.396000+01
553	528	-.440490+01	-.920232+00	.381000+01
554	529	-.440490+01	-.920232+00	.366000+01
555	530	-.440490+01	-.920232+00	.350000+01
556	531	-.440490+01	-.920232+00	.335000+01
557	532	-.440490+01	-.920232+00	.270000+01
558	533	-.364519+01	.263868+01	.612000+01
559	534	-.364519+01	.263868+01	.457000+01
560	535	-.368490+01	.349684+01	.428000+01
561	536	-.337878+01	-.547072+01	.383000+01
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563	538	-.325792+01	-.587744+01	.279000+01
564	539	-.344212+01	.530040+01	.249000+01
565	540	-.360532+01	.449213+01	.266000+01
566	541	-.368490+01	.349684+01	.298000+01
567	542	-.364519+01	.263868+01	.335000+01
568	543	-.364519+01	.263868+01	.270000+01
569	544	-.228392+01	-.387733+01	.612000+01

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572	547	-.897666+00	.638723+01	.368000+01s
573	548	.535032+00	.765132+01	.307000+01s
574	549	.465800+00	.761577+01	.236000+01s
575	550	-.198244+00	.709723+01	.205000+01s
576	551	-.149597+01	.558305+01	.225000+01s
577	552	-.194403+01	.469331+01	.300000+01s
578	553	-.228392+01	.387733+01	.335000+01s
579	554	-.228392+01	.387733+01	.270000+01s
580	555	-.548412+00	.446646+01	.612000+01s
581	556	-.548412+00	.446646+01	.457000+01s
582	557	.248722+00	.527414+01	.420000+01s
583	558	.392500+01	.679830+01	.345000+01s
584	559	.471816+01	.686497+01	.282000+01s
585	560	.464130+01	.688101+01	.200000+01s
586	561	.369772+01	.675403+01	.172000+01s
587	562	.198466+01	.629453+01	.176000+01s
588	563	.248722+00	.527414+01	.290000+01s
589	564	-.548412+00	.446646+01	.335000+01s
590	565	-.548412+00	.446646+01	.270000+01s
591	566	.118743+01	.434051+01	.612000+01s
592	567	.118743+01	.434051+01	.457000+01s
593	568	.255411+01	.492738+01	.405000+01s
594	569	.581510+01	.553764+01	.337000+01s
595	570	.660684+01	.558321+01	.270000+01s
596	571	.655895+01	.556239+01	.183000+01s
597	572	.555079+01	.555079+01	.138000+01s
598	573	.446197+01	.539359+01	.148000+01s
599	574	.255411+01	.492738+01	.265000+01s
600	575	.118743+01	.434051+01	.335000+01s
601	576	.118743+01	.434051+01	.270000+01s
602	577	.279517+01	.352662+01	.612000+01s
603	578	.279517+01	.352662+01	.457000+01s
604	579	.492690+01	.342428+01	.390000+01s
605	580	.798309+01	.365495+01	.315000+01s
606	581	.758867+01	.355479+01	.780000+00s
607	582	.668472+01	.350956+01	.105000+01s
608	583	.492690+01	.342428+01	.225000+01s
609	584	.279517+01	.352662+01	.335000+01s
610	585	.279517+01	.352662+01	.270000+01s
611	586	.407838+01	.190178+01	.612000+01s
612	587	.407838+01	.190178+01	.457000+01s
613	588	.676859+01	.134022+01	.370000+01s
614	589	.811670+01	.313197+01	.330000+01s
615	590	.856892+01	.361437+01	.230000+01s
616	591	.850880+01	.357677+01	.128000+01s
617	592	.801376+01	.298029+01	.600000+00s
618	593	.740172+01	.212241+01	.780000+00s
619	594	.676859+01	.134022+01	.150000+01s
620	595	.407838+01	.190178+01	.335000+01s
621	596	.407838+01	.190178+01	.270000+01s
622	597	.450000+01	.000000	.612000+01s
623	598	.450000+01	.000000	.457000+01s
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625	600	.813000+01	.000000	.460000+00s
626	601	.450000+01	.000000	.335000+01s

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628	603	.885000+01	.000000	.330000+01
629	604	.885278+01	.178021+01	.303000+01
630	605	.884632+01	.305813+01	.160000+01
631	606	.885278+01	.178021+01	.303000+01
632	607	.884632+01	.305813+01	.160000+01
633	608	.944974+01	.284945+01	.165000+01
634	609	.945035+01	.163066+01	.288000+01
635	610	.945000+01	.000000	.330000+01
636	611	.945035+01	.163066+01	.288000+01
637	612	.944974+01	.284945+01	.165000+01
638	613	.106501+02	.279202+01	.161000+01
639	614	.106486+02	.161235+01	.279000+01
640	615	.106500+02	.000000	.323000+01
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649	682	1.5	0. 5.5 1.5	337.5 5.5 16 1
650	698	3.0	0. 6.4 3.0	337.5 6.4 16 1
651	714	1.55	0. 9.8 1.55	337.5 9.8 16 1
652	730	3.5	0. 9.8 3.5	337.5 9.8 16 1
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655	778	7.4625	0. 6.9 7.4625	330. 6.9 12 1
656	790	6.	0. 10.3 6.	337.5 10.3 16 1
657	806	2.7	0. 12.1 2.7	337.5 12.1 16 1
658	822	5.8	0. 12.1 5.8	337.5 12.1 16 1
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661	870	3.8	0. 18.6 3.8	337.5 18.6 16 1
662	886	5.5	0. 14.9 5.5	337.5 14.9 16 1
663	902	4.7	0. 13.9 4.7	337.5 13.9 16 1
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666	950	2.2	0. 17.6 2.2	337.5 17.6 16 1
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668	967	0.	0. 14.35	
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676	1035	3.	0. 0. 3.	337.5 0. 16 1
677	1051	0.	0. 0.	
678	1052	2.3	0. -7.1 2.3	337.5 -7.1 16 1
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683	1:	2:	3:	4: 5:

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OF POOR QUALITY

684	6:	7:	8:	9:	10%
685	11:	12:	13:	14:	15%
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687	21:	22:	23:	24:	25%
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689	31:	32:	33:	34:	35%
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697	NREF = -2				
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707	90:	91:	92:	93:	94%
708	95:	96:	97:	98:	99%
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718	140:	141:	142:	143:	144%
719	145:	146:	147:	148:	149%
720	150:	151:	152:	153:	154%
721	155:	156:	157:	158:	159%
722	160:	161:	162:	163:	164%
723	165:	166:	167:	168:	169%
724	170:	171:	172:	173:	174%
725	175:	176:	177:	178:	179%
726	180:	181:	182:	183:	184%
727	185:	186:	187:	188:	189%
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729	195:	196:	197:	198:	199%
730	200:	201:	202:	203:	204%
731	205:	206:	207:	208:	209%
732	210:	211:	212:	213:	214%
733	215:	216:	217:	218:	219%
734	220:	221:	222:	223:	224%
735	225:	226:	227:	228:	229%
736	230:	231:	232:	233:	234%
737	235:	236:	237%		
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916      603:      604:      605:      606:      607$
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924      MATC
925      1 30.*6 .3 .325961
926      2 30.*6 .3 .325961
927      3 29.6*6 .3 .325961
928      4 29.6*6 .3 .325961
929      CON=1
930      ZERO 6
931      714,729:806,821:968:1001,1016:969,984:1051
932      ZERO 2
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944      8 1 1 +1 1.0
945      BA
946      GIVN 1 .85100-01 .00000 .90000-03 .00000 >
947      .32200+00 .86000-01
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1018	618/681,1069,1067/1052,1/617,682/761,789/762,790/1051,1068			
1019	*(ELD)			
1020	E21			
1021	GROUP 1 * PUMP HOUSING			
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1076	1034 1033				
1077	E43				
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1080	NMAT= 1: NSECT= 2: NNSW= 0:	265	264	272	271
1081	NMAT= 1: NSECT= 3: NNSW= 0:	276	275	283	282
1082	NMAT= 1: NSECT= 4: NNSW= 0:	287	286	294	293

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1089	NMAT= 1: NSECT=	5: NNSW=	0:	364	363	371	370
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1093	NMAT= 1: NSECT=	2: NNSW=	0:	458	457	465	464
1094	NMAT= 1: NSECT=	3: NNSW=	0:	469	468	476	475
1095	NMAT= 1: NSECT=	4: NNSW=	0:	480	479	487	486
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1097	NMAT= 1: NSECT=	6: NNSW=	0:	438	437	445	444
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1099	NMAT= 1: NSECT=	2: NNSW=	0:	579	578	584	583
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1101	NMAT= 1: NSECT=	4: NNSW=	0:	546	545	553	552
1102	NMAT= 1: NSECT=	5: NNSW=	0:	557	556	564	563
1103	NMAT= 1: NSECT=	6: NNSW=	0:	588	587	595	594
1104	NMAT= 1: NSECT=	7: NNSW=	0:	599	598	601	600
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1107	NMAT= 3						
1108	618 634 635 619 2 16						
1109	NSECT= 55						
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1112	650 666 667 651 2 16						
1113	NSECT= 47						
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1120	640 641 307 296						
1121	641 642 318 307						
1122	642 643 329 318						
1123	643 644 340 329						
1124	644 645 351 340						
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1126	646 647 373 362						
1127	647 648 384 373						
1128	648 649 393 384						
1129	649 634 404 393						
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1133	254 263 653 652						
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1138	307 318 658 657						
1139	318 329 659 658						

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1144	373	384	664	663		
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1146	393	404	665	665		
1147	GROUP 3' FLANGE/HOUSING					
1148	NMAT= 4					
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1177	533	522	753	752		
1178	522	511	754	753		
1179	511	500	755	754		
1180	500	489	756	755		
1181	489	478	757	756		
1182	478	467	758	757		
1183	467	456	759	758		
1184	456	447	760	759		
1185	447	436	761	760		
1186	436	597	746	761		
1187	NSECT= 55					
1188	597	586	731	730		
1189	586	577	732	731		
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1211	533 522 705 704
1212	522 511 706 705
1213	511 500 707 706
1214	500 489 708 707
1215	489 478 709 708
1216	478 467 710 709
1217	467 456 711 710
1218	456 447 712 711
1219	447 436 713 712
1220	436 597 698 713
1221	GROUP 4* TURBINE END
1222	NMAT= 4
1223	NSECT= 13
1224	886 902 903 887 2 16
1225	NSECT= 3
1226	902 918 919 903 2 16
1227	NSECT= 54
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1229	NSECT= 54
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1232	934 950 951 935 2 16
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1241	925 957 877 893
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1244	928 960 880 896
1245	929 961 881 897
1246	930 962 882 898
1247	931 963 883 899
1248	932 964 884 900
1249	933 965 885 901
1250	GROUP 5* ROTOR
1251	NMAT= 3
1252	NSECT= 58
1253	969 985 986 970 2 16

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1255	1017	985	986	1018	2	16			
1256	NSECT= 58								
1257	1001	1017	1018	1002	2	16			
1258	GROUP 6 TURBINE HOUSING								
1259	NHAT= 4								
1260	NSECT= 5								
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1262	790	822	823	791	2	16			
1263	822	886	887	823	2	16			
1264	NSECT= 3								
1265	886	870	871	887	2	16			
1266	870	854	855	871	2	16			
1267	NSECT= 54								
1268	838	854	855	839	2	16			
1269	NSECT= 58								
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1271	E33								
1272	GROUP 1 PUMP HOUSING								
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1461	NMAT=	2: NSECT=	21: NNSW=	0:	92	91	81
1462	NMAT=	2: NSECT=	21: NNSW=	0:	93	92	82
1463	NMAT=	2: NSECT=	21: NNSW=	0:	84	93	83
1464	NMAT=	2: NSECT=	22: NNSW=	0:	84	85	95
1465	NMAT=	2: NSECT=	22: NNSW=	0:	85	86	96
1466	NMAT=	2: NSECT=	22: NNSW=	0:	86	87	97
1467	NMAT=	2: NSECT=	22: NNSW=	0:	87	88	98
1468	NMAT=	2: NSECT=	22: NNSW=	0:	88	89	99
1469	NMAT=	2: NSECT=	22: NNSW=	0:	89	90	100
1470	NMAT=	2: NSECT=	22: NNSW=	0:	90	91	101
1471	NMAT=	2: NSECT=	22: NNSW=	0:	91	92	102
1472	NMAT=	2: NSECT=	22: NNSW=	0:	92	93	103
1473	NMAT=	2: NSECT=	22: NNSW=	0:	93	84	94
1474	NMAT=	2: NSECT=	22: NNSW=	0:	95	94	84
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1476	NMAT=	2: NSECT=	22: NNSW=	0:	97	96	86
1477	NMAT=	2: NSECT=	22: NNSW=	0:	98	97	87
1478	NMAT=	2: NSECT=	22: NNSW=	0:	99	98	88
1479	NMAT=	2: NSECT=	22: NNSW=	0:	100	99	89
1480	NMAT=	2: NSECT=	22: NNSW=	0:	101	100	90
1481	NMAT=	2: NSECT=	22: NNSW=	0:	102	101	91

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1489	NMAT=	2:	NSECT=	23:	NNSW=	0:	99	100	110
1490	NMAT=	2:	NSECT=	23:	NNSW=	0:	100	101	111
1491	NMAT=	2:	NSECT=	23:	NNSW=	0:	101	102	112
1492	NMAT=	2:	NSECT=	23:	NNSW=	0:	102	103	113
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1538	NMAT=	2:	NSECT=	27:	NNSW=	0:	137	136	127

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1545	NMAJ=	2: NSECT=	27: NNSW=	0:	135	136	145
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1553	NMAT=	2: NSECT=	27: NNSW=	0:	145	144	135
1554	NMAT=	2: NSECT=	27: NNSW=	0:	146	145	136
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1574	NMAT=	2: NSECT=	32: NNSW=	0:	159	160	169
1575	NMAT=	2: NSECT=	32: NNSW=	0:	160	161	170
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1578	NMAT=	2: NSECT=	32: NNSW=	0:	163	164	173
1579	NMAT=	2: NSECT=	31: NNSW=	0:	164	165	174
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1587	NMAJ=	2: NSECT=	31: NNSW=	0:	174	173	164
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1589	NMAT=	2: NSECT=	34: NNSW=	0:	167	168	177
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1652	NMAT=	2:	NSECT=	41:	NNSW=	0:	202	203	212

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1709	NMAT=	2:	NSECT=	48:	NNSW=	0:	235	236	140

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1715	NMAT=	2: NSECT=	47: NNSW=	0:	229	230	146
1716	NMAT=	2: NSECT=	49: NNSW=	0:	403	409	176
1717	NMAT=	2: NSECT=	49: NNSW=	0:	176	167	403
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1719	NMAT=	2: NSECT=	49: NNSW=	0:	167	158	392
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1770	NMAT=	2:	NSECT=	49:	NNSW=	0:	155	164	466
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1772	NMAT=	2:	NSECT=	49:	NNSW=	0:	164	173	455
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1774	NMAT=	2:	NSECT=	49:	NNSW=	0:	173	182	446
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1776	NMAT=	2:	NSECT=	49:	NNSW=	0:	182	191	602
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1819	NMAT=	2:	NSECT=	51:	NNSW=	0:	268	269	279
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1957	NMAT=	2:	NSECT=	51:NNSW=	0:	343	354	344
1958	NMAT=	2:	NSECT=	51:NNSW=	0:	355	356	344
1959	NMAT=	2:	NSECT=	51:NNSW=	0:	356	357	345
1960	NMAT=	2:	NSECT=	51:NNSW=	0:	357	358	346
1961	NMAT=	2:	NSECT=	51:NNSW=	0:	358	359	347
1962	NMAT=	2:	NSECT=	51:NNSW=	0:	359	360	348
1963	NMAT=	1:	NSECT=	52:NNSW=	0:	360	361	349
1964	NMAT=	2:	NSECT=	50:NNSW=	0:	341	340	352
1965	NMAT=	2:	NSECT=	51:NNSW=	0:	342	352	353
1966	NMAT=	2:	NSECT=	51:NNSW=	0:	343	353	354
1967	NMAT=	2:	NSECT=	51:NNSW=	0:	344	354	355
1968	NMAT=	2:	NSECT=	51:NNSW=	0:	345	344	356
1969	NMAT=	2:	NSECT=	51:NNSW=	0:	346	345	357
1970	NMAT=	2:	NSECT=	51:NNSW=	0:	347	346	358
1971	NMAT=	2:	NSECT=	51:NNSW=	0:	348	347	359
1972	NMAT=	2:	NSECT=	51:NNSW=	0:	349	348	360
1973	NMAT=	1:	NSECT=	52:NNSW=	0:	350	349	361
1974	NMAT=	2:	NSECT=	50:NNSW=	0:	362	363	351
1975	NMAT=	2:	NSECT=	51:NNSW=	0:	353	352	363
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1983	NMAT=	1:	NSECT=	52:NNSW=	0:	371	372	360
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1985	NMAT=	2:	NSECT=	51:NNSW=	0:	353	363	364
1986	NMAT=	2:	NSECT=	51:NNSW=	0:	354	364	365
1987	NMAT=	2:	NSECT=	51:NNSW=	0:	355	365	366
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1989	NMAT=	2:	NSECT=	51:NNSW=	0:	357	356	368
1990	NMAT=	2:	NSECT=	51:NNSW=	0:	358	357	369
1991	NMAT=	2:	NSECT=	51:NNSW=	0:	359	358	370
1992	NMAT=	2:	NSECT=	51:NNSW=	0:	360	359	371
1993	NMAT=	1:	NSECT=	52:NNSW=	0:	361	360	372
1994	NMAT=	2:	NSECT=	50:NNSW=	0:	373	374	362

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1997	NMAT=	2: NSECT=	51: NNSW=	0:	366	365	376
1998	NMAT=	2: NSECT=	51: NNSW=	0:	377	370	366
1999	NMAT=	2: NSECT=	51: NNSW=	0:	378	379	367
2000	NMAT=	2: NSECT=	51: NNSW=	0:	379	380	368
2001	NMAT=	2: NSECT=	51: NNSW=	0:	380	381	369
2002	NMAT=	2: NSECT=	51: NNSW=	0:	381	382	370
2003	NMAT=	1: NSECT=	52: NNSW=	0:	382	383	371
2004	NMAT=	2: NSECT=	50: NNSW=	0:	363	362	374
2005	NMAT=	2: NSECT=	51: NNSW=	0:	364	374	375
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2008	NMAT=	2: NSECT=	51: NNSW=	0:	367	366	378
2009	NMAT=	2: NSECT=	51: NNSW=	0:	368	367	379
2010	NMAT=	2: NSECT=	51: NNSW=	0:	369	368	380
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2012	NMAT=	2: NSECT=	51: NNSW=	0:	371	370	382
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2017	NMAT=	2: NSECT=	51: NNSW=	0:	377	376	387
2018	NMAT=	2: NSECT=	51: NNSW=	0:	397	398	377
2019	NMAT=	2: NSECT=	51: NNSW=	0:	398	388	378
2020	NMAT=	2: NSECT=	51: NNSW=	0:	388	389	379
2021	NMAT=	2: NSECT=	51: NNSW=	0:	389	390	380
2022	NMAT=	2: NSECT=	51: NNSW=	0:	390	391	381
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2025	NMAT=	2: NSECT=	51: NNSW=	0:	375	385	386
2026	NMAT=	2: NSECT=	51: NNSW=	0:	376	386	387
2027	NMAT=	2: NSECT=	51: NNSW=	0:	377	387	397
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2029	NMAT=	2: NSECT=	51: NNSW=	0:	379	378	388
2030	NMAT=	2: NSECT=	51: NNSW=	0:	380	379	389
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2035	NMAT=	2: NSECT=	51: NNSW=	0:	386	385	394
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2038	NMAT=	2: NSECT=	51: NNSW=	0:	399	400	388
2039	NMAT=	2: NSECT=	51: NNSW=	0:	400	401	389
2040	NMAT=	2: NSECT=	51: NNSW=	0:	401	402	390
2041	NMAT=	1: NSECT=	52: NNSW=	0:	402	403	391
2042	NMAT=	2: NSECT=	50: NNSW=	0:	385	384	394
2043	NMAT=	2: NSECT=	51: NNSW=	0:	386	394	395
2044	NMAT=	2: NSECT=	51: NNSW=	0:	387	395	396
2045	NMAT=	2: NSECT=	51: NNSW=	0:	388	398	399
2046	NMAT=	2: NSECT=	51: NNSW=	0:	389	388	400
2047	NMAT=	2: NSECT=	51: NNSW=	0:	390	389	401
2048	NMAT=	2: NSECT=	51: NNSW=	0:	391	390	402
2049	NMAT=	1: NSECT=	52: NNSW=	0:	392	391	403
2050	NMAT=	2: NSECT=	50: NNSW=	0:	393	394	404
2051	NMAT=	2: NSECT=	51: NNSW=	0:	394	395	405

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2055	NMAT=	2:	NSECT=	51:	NNSW=	0:	406	405	395
2056	NMAT=	2:	NSECT=	51:	NNSW=	0:	408	407	402
2057	NMAT=	1:	NSECT=	52:	NNSW=	0:	409	408	403
2058	NMAT=	2:	NSECT=	50:	NNSW=	0:	244	243	404
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2060	NMAT=	2:	NSECT=	51:	NNSW=	0:	252	251	407
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2062	NMAT=	2:	NSECT=	50:	NNSW=	0:	404	405	244
2063	NMAT=	2:	NSECT=	51:	NNSW=	0:	405	406	245
2064	NMAT=	2:	NSECT=	51:	NNSW=	0:	407	408	252
2065	NMAT=	1:	NSECT=	52:	NNSW=	0:	408	409	253
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2067	NMAT=	2:	NSECT=	51:	NNSW=	0:	411	406	395
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2072	NMAT=	2:	NSECT=	51:	NNSW=	0:	413	412	398
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2074	NMAT=	2:	NSECT=	51:	NNSW=	0:	414	413	399
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2085	NMAT=	2:	NSECT=	51:	NNSW=	0:	248	247	418
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2141	NMAT=	2:	NSECT=	51:	NNSW=	0:	452	453	463
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2154	NMAT=	2:	NSECT=	54:	NNSW=	0:	456	457	467
2155	NMAT=	2:	NSECT=	51:	NNSW=	0:	457	469	458
2156	NMAT=	2:	NSECT=	51:	NNSW=	0:	458	470	459
2157	NMAT=	2:	NSECT=	51:	NNSW=	0:	459	471	460
2158	NMAT=	2:	NSECT=	51:	NNSW=	0:	460	461	471
2159	NMAT=	2:	NSECT=	51:	NNSW=	0:	461	462	472
2160	NMAT=	2:	NSECT=	51:	NNSW=	0:	462	463	473
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2162	NMAT=	2:	NSECT=	51:	NNSW=	0:	464	465	475
2163	NMAT=	1:	NSECT=	52:	NNSW=	0:	465	466	476
2164	NMAT=	2:	NSECT=	54:	NNSW=	0:	468	467	457
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2169	NMAT=	2:	NSECT=	51:	NNSW=	0:	473	472	462
2170	NMAT=	2:	NSECT=	51:	NNSW=	0:	474	473	463
2171	NMAT=	2:	NSECT=	51:	NNSW=	0:	475	474	464
2172	NMAT=	2:	NSECT=	51:	NNSW=	0:	476	475	465
2173	NMAT=	1:	NSECT=	52:	NNSW=	0:	477	476	466
2174	NMAT=	2:	NSECT=	54:	NNSW=	0:	467	468	478
2175	NMAT=	2:	NSECT=	51:	NNSW=	0:	480	469	468
2176	NMAT=	2:	NSECT=	51:	NNSW=	0:	481	470	469
2177	NMAT=	2:	NSECT=	51:	NNSW=	0:	482	471	470
2178	NMAT=	2:	NSECT=	51:	NNSW=	0:	471	472	482
2179	NMAT=	2:	NSECT=	51:	NNSW=	0:	472	473	483
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2194	NMAT=	2:	NSECT=	54:	NNSW=	0:	478	479	489
2195	NMAT=	2:	NSECT=	51:	NNSW=	0:	491	480	479
2196	NMAT=	2:	NSECT=	51:	NNSW=	0:	492	481	480
2197	NMAT=	2:	NSECT=	51:	NNSW=	0:	493	482	481
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2199	NMAT=	2:	NSECT=	51:	NNSW=	0:	483	484	494
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2204	NMAT=	2:	NSECT=	54:	NNSW=	0:	490	489	479
2205	NMAT=	2:	NSECT=	51:	NNSW=	0:	490	491	479
2206	NMAT=	2:	NSECT=	51:	NNSW=	0:	491	492	480
2207	NMAT=	2:	NSECT=	51:	NNSW=	0:	492	493	481
2208	NMAT=	2:	NSECT=	51:	NNSW=	0:	494	493	483
2209	NMAT=	2:	NSECT=	51:	NNSW=	0:	495	494	484
2210	NMAT=	2:	NSECT=	51:	NNSW=	0:	496	495	485
2211	NMAT=	2:	NSECT=	51:	NNSW=	0:	497	496	486
2212	NMAT=	2:	NSECT=	51:	NNSW=	0:	498	497	487
2213	NMAT=	1:	NSECT=	52:	NNSW=	0:	499	498	488
2214	NMAT=	2:	NSECT=	54:	NNSW=	0:	489	490	500
2215	NMAT=	2:	NSECT=	51:	NNSW=	0:	490	491	501
2216	NMAT=	2:	NSECT=	51:	NNSW=	0:	491	492	502
2217	NMAT=	2:	NSECT=	51:	NNSW=	0:	492	493	503
2218	NMAT=	2:	NSECT=	51:	NNSW=	0:	493	494	504
2219	NMAT=	2:	NSECT=	51:	NNSW=	0:	494	495	505
2220	NMAT=	2:	NSECT=	51:	NNSW=	0:	495	496	506
2221	NMAT=	2:	NSECT=	51:	NNSW=	0:	496	497	507
2222	NMAT=	2:	NSECT=	51:	NNSW=	0:	497	498	508

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2223	NMAT=	1:	NSECT=	52:	NNSW=	0:	498	499	509
2224	NMAT=	2:	NSECT=	54:	NNSW=	0:	501	500	490
2225	NMAT=	2:	NSECT=	51:	NNSW=	0:	502	501	491
2226	NMAT=	2:	NSECT=	51:	NNSW=	0:	503	502	492
2227	NMAT=	2:	NSECT=	51:	NNSW=	0:	504	503	493
2228	NMAT=	2:	NSECT=	51:	NNSW=	0:	505	504	494
2229	NMAT=	2:	NSECT=	51:	NNSW=	0:	506	505	495
2230	NMAT=	2:	NSECT=	51:	NNSW=	0:	507	506	496
2231	NMAT=	2:	NSECT=	51:	NNSW=	0:	508	507	497
2232	NMAT=	2:	NSECT=	51:	NNSW=	0:	509	508	498
2233	NMAT=	1:	NSECT=	52:	NNSW=	0:	510	509	499
2234	NMAT=	2:	NSECT=	54:	NNSW=	0:	500	501	511
2235	NMAT=	2:	NSECT=	50:	NNSW=	0:	501	502	512
2236	NMAT=	2:	NSECT=	50:	NNSW=	0:	502	503	513
2237	NMAT=	2:	NSECT=	50:	NNSW=	0:	503	504	514
2238	NMAT=	2:	NSECT=	50:	NNSW=	0:	504	505	515
2239	NMAT=	2:	NSECT=	50:	NNSW=	0:	505	506	516
2240	NMAT=	2:	NSECT=	50:	NNSW=	0:	506	507	517
2241	NMAT=	2:	NSECT=	50:	NNSW=	0:	507	508	518
2242	NMAT=	2:	NSECT=	50:	NNSW=	0:	508	509	519
2243	NMAT=	1:	NSECT=	52:	NNSW=	0:	509	510	520
2244	NMAT=	2:	NSECT=	54:	NNSW=	0:	512	511	501
2245	NMAT=	2:	NSECT=	50:	NNSW=	0:	513	512	502
2246	NMAT=	2:	NSECT=	50:	NNSW=	0:	514	513	503
2247	NMAT=	2:	NSECT=	50:	NNSW=	0:	515	514	504
2248	NMAT=	2:	NSECT=	50:	NNSW=	0:	516	515	505
2249	NMAT=	2:	NSECT=	50:	NNSW=	0:	517	516	506
2250	NMAT=	2:	NSECT=	50:	NNSW=	0:	518	517	507
2251	NMAT=	2:	NSECT=	50:	NNSW=	0:	519	518	508
2252	NMAT=	2:	NSECT=	50:	NNSW=	0:	520	519	509
2253	NMAT=	1:	NSECT=	52:	NNSW=	0:	521	520	510
2254	NMAT=	2:	NSECT=	54:	NNSW=	0:	522	523	511
2255	NMAT=	2:	NSECT=	50:	NNSW=	0:	523	524	512
2256	NMAT=	2:	NSECT=	50:	NNSW=	0:	524	525	513
2257	NMAT=	2:	NSECT=	50:	NNSW=	0:	525	526	514
2258	NMAT=	2:	NSECT=	50:	NNSW=	0:	526	527	515
2259	NMAT=	2:	NSECT=	50:	NNSW=	0:	527	528	516
2260	NMAT=	2:	NSECT=	50:	NNSW=	0:	528	529	517
2261	NMAT=	2:	NSECT=	50:	NNSW=	0:	529	530	518
2262	NMAT=	2:	NSECT=	50:	NNSW=	0:	530	531	519
2263	NMAT=	1:	NSECT=	52:	NNSW=	0:	531	532	520
2264	NMAT=	2:	NSECT=	54:	NNSW=	0:	512	511	523
2265	NMAT=	2:	NSECT=	50:	NNSW=	0:	513	512	524
2266	NMAT=	2:	NSECT=	50:	NNSW=	0:	514	513	525
2267	NMAT=	2:	NSECT=	50:	NNSW=	0:	515	514	526
2268	NMAT=	2:	NSECT=	50:	NNSW=	0:	516	515	527
2269	NMAT=	2:	NSECT=	50:	NNSW=	0:	517	516	528
2270	NMAT=	2:	NSECT=	50:	NNSW=	0:	518	517	529
2271	NMAT=	2:	NSECT=	50:	NNSW=	0:	519	518	530
2272	NMAT=	2:	NSECT=	50:	NNSW=	0:	520	519	531
2273	NMAT=	1:	NSECT=	52:	NNSW=	0:	521	520	532
2274	NMAT=	2:	NSECT=	54:	NNSW=	0:	533	534	522
2275	NMAT=	2:	NSECT=	51:	NNSW=	0:	534	535	523
2276	NMAT=	2:	NSECT=	51:	NNSW=	0:	535	536	524
2277	NMAT=	2:	NSECT=	51:	NNSW=	0:	536	537	525
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2279	NMAT=	2:	NSECT=	51:	NNSW=	0:	538	539	527

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2280	NMAT=	2: NSECT=	51: NNSW=	0:	539	540	528
2281	NMAT=	2: NSECT=	51: NNSW=	0:	540	541	529
2282	NMAT=	2: NSECT=	51: NNSW=	0:	541	542	530
2283	NMAT=	1: NSECT=	52: NNSW=	0:	542	543	531
2284	NMAT=	2: NSECT=	54: NNSW=	0:	523	522	534
2285	NMAT=	2: NSECT=	51: NNSW=	0:	524	523	535
2286	NMAT=	2: NSECT=	51: NNSW=	0:	525	524	536
2287	NMAT=	2: NSECT=	51: NNSW=	0:	526	525	537
2288	NMAT=	2: NSECT=	51: NNSW=	0:	527	526	538
2289	NMAT=	2: NSECT=	51: NNSW=	0:	528	527	539
2290	NMAT=	2: NSECT=	51: NNSW=	0:	529	528	540
2291	NMAT=	2: NSECT=	51: NNSW=	0:	530	529	541
2292	NMAT=	2: NSECT=	51: NNSW=	0:	531	530	542
2293	NMAT=	1: NSECT=	52: NNSW=	0:	532	531	543
2294	NMAT=	2: NSECT=	54: NNSW=	0:	544	545	533
2295	NMAT=	2: NSECT=	51: NNSW=	0:	535	534	545
2296	NMAT=	2: NSECT=	51: NNSW=	0:	535	546	536
2297	NMAT=	2: NSECT=	51: NNSW=	0:	536	547	537
2298	NMAT=	2: NSECT=	51: NNSW=	0:	548	549	537
2299	NMAT=	2: NSECT=	51: NNSW=	0:	549	550	538
2300	NMAT=	2: NSECT=	51: NNSW=	0:	550	551	539
2301	NMAT=	2: NSECT=	51: NNSW=	0:	551	552	540
2302	NMAT=	2: NSECT=	51: NNSW=	0:	552	553	541
2303	NMAT=	1: NSECT=	52: NNSW=	0:	553	554	542
2304	NMAT=	2: NSECT=	54: NNSW=	0:	534	533	545
2305	NMAT=	2: NSECT=	51: NNSW=	0:	535	545	546
2306	NMAT=	2: NSECT=	51: NNSW=	0:	536	546	547
2307	NMAT=	2: NSECT=	51: NNSW=	0:	537	547	548
2308	NMAT=	2: NSECT=	51: NNSW=	0:	538	537	549
2309	NMAT=	2: NSECT=	51: NNSW=	0:	539	538	550
2310	NMAT=	2: NSECT=	51: NNSW=	0:	540	539	551
2311	NMAT=	2: NSECT=	51: NNSW=	0:	541	540	552
2312	NMAT=	2: NSECT=	51: NNSW=	0:	542	541	553
2313	NMAT=	1: NSECT=	52: NNSW=	0:	543	542	554
2314	NMAT=	2: NSECT=	54: NNSW=	0:	555	556	544
2315	NMAT=	2: NSECT=	51: NNSW=	0:	546	545	556
2316	NMAT=	2: NSECT=	51: NNSW=	0:	546	557	547
2317	NMAT=	2: NSECT=	51: NNSW=	0:	547	558	548
2318	NMAT=	2: NSECT=	51: NNSW=	0:	559	560	548
2319	NMAT=	2: NSECT=	51: NNSW=	0:	560	561	549
2320	NMAT=	2: NSECT=	51: NNSW=	0:	561	562	550
2321	NMAT=	2: NSECT=	51: NNSW=	0:	562	563	551
2322	NMAT=	2: NSECT=	51: NNSW=	0:	563	564	552
2323	NMAT=	1: NSECT=	52: NNSW=	0:	564	565	553
2324	NMAT=	2: NSECT=	54: NNSW=	0:	545	544	556
2325	NMAT=	2: NSECT=	51: NNSW=	0:	546	556	557
2326	NMAT=	2: NSECT=	51: NNSW=	0:	547	557	558
2327	NMAT=	2: NSECT=	51: NNSW=	0:	548	558	559
2328	NMAT=	2: NSECT=	51: NNSW=	0:	549	548	560
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2330	NMAT=	2: NSECT=	51: NNSW=	0:	551	550	562
2331	NMAT=	2: NSECT=	51: NNSW=	0:	552	551	563
2332	NMAT=	2: NSECT=	51: NNSW=	0:	553	552	564
2333	NMAT=	1: NSECT=	52: NNSW=	0:	554	553	565
2334	NMAT=	2: NSECT=	54: NNSW=	0:	566	567	565
2335	NMAT=	2: NSECT=	51: NNSW=	0:	557	556	567
2336	NMAT=	2: NSECT=	51: NNSW=	0:	558	557	568

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2337	NMAT=	2:	NSECT=	51:	NNSW=	0:	559	558	569
2338	NMAT=	2:	NSECT=	51:	NNSW=	0:	570	571	559
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2340	NMAT=	2:	NSECT=	51:	NNSW=	0:	572	573	561
2341	NMAT=	2:	NSECT=	51:	NNSW=	0:	573	574	562
2342	NMAT=	2:	NSECT=	51:	NNSW=	0:	574	575	563
2343	NMAT=	1:	NSECT=	52:	NNSW=	0:	575	576	564
2344	NMAT=	2:	NSECT=	54:	NNSW=	0:	556	555	567
2345	NMAT=	2:	NSECT=	51:	NNSW=	0:	557	567	568
2346	NMAT=	2:	NSECT=	51:	NNSW=	0:	558	568	569
2347	NMAT=	2:	NSECT=	51:	NNSW=	0:	559	569	570
2348	NMAT=	2:	NSECT=	51:	NNSW=	0:	560	559	571
2349	NMAT=	2:	NSECT=	51:	NNSW=	0:	561	560	572
2350	NMAT=	2:	NSECT=	51:	NNSW=	0:	562	561	573
2351	NMAT=	2:	NSECT=	51:	NNSW=	0:	563	562	574
2352	NMAT=	2:	NSECT=	51:	NNSW=	0:	564	563	575
2353	NMAT=	1:	NSECT=	52:	NNSW=	0:	565	564	576
2354	NMAT=	2:	NSECT=	54:	NNSW=	0:	577	578	566
2355	NMAT=	2:	NSECT=	51:	NNSW=	0:	568	567	578
2356	NMAT=	2:	NSECT=	51:	NNSW=	0:	569	568	579
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2358	NMAT=	2:	NSECT=	51:	NNSW=	0:	590	591	570
2359	NMAT=	2:	NSECT=	51:	NNSW=	0:	591	581	571
2360	NMAT=	2:	NSECT=	51:	NNSW=	0:	581	582	572
2361	NMAT=	2:	NSECT=	51:	NNSW=	0:	582	583	573
2362	NMAT=	2:	NSECT=	51:	NNSW=	0:	583	584	574
2363	NMAT=	1:	NSECT=	52:	NNSW=	0:	584	585	575
2364	NMAT=	2:	NSECT=	54:	NNSW=	0:	567	566	578
2365	NMAT=	2:	NSECT=	51:	NNSW=	0:	568	570	579
2366	NMAT=	2:	NSECT=	51:	NNSW=	0:	569	579	580
2367	NMAT=	2:	NSECT=	51:	NNSW=	0:	570	580	590
2368	NMAT=	2:	NSECT=	51:	NNSW=	0:	571	570	591
2369	NMAT=	2:	NSECT=	51:	NNSW=	0:	572	571	581
2370	NMAT=	2:	NSECT=	51:	NNSW=	0:	573	572	582
2371	NMAT=	2:	NSECT=	51:	NNSW=	0:	574	573	583
2372	NMAT=	2:	NSECT=	51:	NNSW=	0:	575	574	584
2373	NMAT=	1:	NSECT=	52:	NNSW=	0:	576	575	585
2374	NMAT=	2:	NSECT=	54:	NNSW=	0:	586	587	577
2375	NMAT=	2:	NSECT=	51:	NNSW=	0:	579	578	587
2376	NMAT=	2:	NSECT=	51:	NNSW=	0:	580	579	588
2377	NMAT=	2:	NSECT=	51:	NNSW=	0:	589	590	580
2378	NMAT=	2:	NSECT=	51:	NNSW=	0:	592	593	581
2379	NMAT=	2:	NSECT=	51:	NNSW=	0:	593	594	582
2380	NMAT=	2:	NSECT=	51:	NNSW=	0:	594	595	583
2381	NMAT=	1:	NSECT=	52:	NNSW=	0:	595	596	584
2382	NMAT=	2:	NSECT=	54:	NNSW=	0:	578	577	587
2383	NMAT=	2:	NSECT=	51:	NNSW=	0:	579	587	588
2384	NMAT=	2:	NSECT=	51:	NNSW=	0:	580	588	589
2385	NMAT=	2:	NSECT=	51:	NNSW=	0:	581	591	592
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2387	NMAT=	2:	NSECT=	51:	NNSW=	0:	583	582	594
2388	NMAT=	2:	NSECT=	51:	NNSW=	0:	584	583	595
2389	NMAT=	1:	NSECT=	52:	NNSW=	0:	585	584	596
2390	NMAT=	2:	NSECT=	54:	NNSW=	0:	586	587	597
2391	NMAT=	2:	NSECT=	51:	NNSW=	0:	587	588	598
2392	NMAT=	2:	NSECT=	51:	NNSW=	0:	594	595	600
2393	NMAT=	1:	NSECT=	52:	NNSW=	0:	595	596	601

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2395	NMAT=	2:	NSECT=	51:	NNSW=	0:	599	598	588
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2397	NMAT=	1:	NSECT=	52:	NNSW=	0:	602	601	596
2398	NMAT=	2:	NSECT=	54:	NNSW=	0:	437	436	597
2399	NMAT=	2:	NSECT=	51:	NNSW=	0:	438	437	598
2400	NMAT=	2:	NSECT=	51:	NNSW=	0:	445	444	600
2401	NMAT=	1:	NSECT=	52:	NNSW=	0:	446	445	601
2402	NMAT=	2:	NSECT=	54:	NNSW=	0:	597	598	437
2403	NMAT=	2:	NSECT=	51:	NNSW=	0:	598	599	438
2404	NMAT=	2:	NSECT=	51:	NNSW=	0:	600	601	445
2405	NMAT=	1:	NSECT=	52:	NNSW=	0:	601	602	446
2406	NMAT=	2:	NSECT=	51:	NNSW=	0:	588	589	604
2407	NMAT=	2:	NSECT=	51:	NNSW=	0:	604	599	588
2408	NMAT=	2:	NSECT=	51:	NNSW=	0:	599	604	603
2409	NMAT=	2:	NSECT=	51:	NNSW=	0:	589	590	604
2410	NMAT=	2:	NSECT=	51:	NNSW=	0:	605	604	590
2411	NMAT=	2:	NSECT=	51:	NNSW=	0:	590	591	605
2412	NMAT=	2:	NSECT=	51:	NNSW=	0:	419	605	591
2413	NMAT=	2:	NSECT=	51:	NNSW=	0:	591	592	419
2414	NMAT=	2:	NSECT=	51:	NNSW=	0:	420	419	592
2415	NMAT=	2:	NSECT=	51:	NNSW=	0:	592	593	420
2416	NMAT=	2:	NSECT=	51:	NNSW=	0:	421	420	593
2417	NMAT=	2:	NSECT=	51:	NNSW=	0:	593	594	421
2418	NMAT=	2:	NSECT=	51:	NNSW=	0:	416	421	594
2419	NMAT=	2:	NSECT=	51:	NNSW=	0:	600	416	594
2420	NMAT=	2:	NSECT=	51:	NNSW=	0:	603	606	599
2421	NMAT=	2:	NSECT=	51:	NNSW=	0:	599	606	438
2422	NMAT=	2:	NSECT=	51:	NNSW=	0:	438	606	439
2423	NMAT=	2:	NSECT=	51:	NNSW=	0:	440	439	606
2424	NMAT=	2:	NSECT=	51:	NNSW=	0:	606	607	440
2425	NMAT=	2:	NSECT=	51:	NNSW=	0:	441	440	607
2426	NMAT=	2:	NSECT=	51:	NNSW=	0:	607	413	441
2427	NMAT=	2:	NSECT=	51:	NNSW=	0:	442	441	413
2428	NMAT=	2:	NSECT=	51:	NNSW=	0:	413	414	442
2429	NMAT=	2:	NSECT=	51:	NNSW=	0:	443	442	414
2430	NMAT=	2:	NSECT=	51:	NNSW=	0:	414	415	443
2431	NMAT=	2:	NSECT=	51:	NNSW=	0:	444	443	415
2432	NMAT=	2:	NSECT=	51:	NNSW=	0:	415	416	444
2433	NMAT=	2:	NSECT=	51:	NNSW=	0:	416	600	444
2434	NMAT=	2:	NSECT=	53:	NNSW=	0:	428	435	608
2435	NMAT=	2:	NSECT=	53:	NNSW=	0:	608	613	609
2436	NMAT=	2:	NSECT=	53:	NNSW=	0:	609	614	610
2437	NMAT=	2:	NSECT=	53:	NNSW=	0:	610	615	611
2438	NMAT=	2:	NSECT=	53:	NNSW=	0:	611	616	612
2439	NMAT=	2:	NSECT=	53:	NNSW=	0:	612	617	422
2440	NMAT=	2:	NSECT=	53:	NNSW=	0:	613	608	435
2441	NMAT=	2:	NSECT=	53:	NNSW=	0:	614	609	613
2442	NMAT=	2:	NSECT=	53:	NNSW=	0:	615	610	614
2443	NMAT=	2:	NSECT=	53:	NNSW=	0:	616	611	615
2444	NMAT=	2:	NSECT=	53:	NNSW=	0:	617	612	616
2445	NMAT=	2:	NSECT=	53:	NNSW=	0:	429	422	617
2446	NMAT=	2:	NSECT=	53:	NNSW=	0:	608	605	428
2447	NMAT=	2:	NSECT=	53:	NNSW=	0:	609	604	608
2448	NMAT=	2:	NSECT=	53:	NNSW=	0:	610	603	609
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2450	NMAT=	2:	NSECT=	53:	NNSW=	0:	612	607	611

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2451	NMAT=	2:	NSECT=	53:	NNSW=	0:	422	413	612
2452	NMAT=	2:	NSECT=	53:	NNSW=	0:	419	428	605
2453	NMAT=	2:	NSECT=	53:	NNSW=	0:	605	608	604
2454	NMAT=	2:	NSECT=	53:	NNSW=	0:	604	609	603
2455	NMAT=	2:	NSECT=	53:	NNSW=	0:	603	610	606
2456	NMAT=	2:	NSECT=	53:	NNSW=	0:	606	611	607
2457	NMAT=	2:	NSECT=	53:	NNSW=	0:	607	612	413
2458	GROUP 2' AFT BEARING SUPPORT								
2459	NMAT= 3								
2460	NSECT= 58								
2461	1068 666 667 3 16								
2462	GROUP 3' FLANGE/HOUSING								
2463	NMAT= 4								
2464	NSECT= 56								
2465	779 763 764								
2466	764 780 779								
2467	780 764 765								
2468	782 767 768								
2469	768 783 782								
2470	783 768 769								
2471	785 771 772								
2472	772 786 785								
2473	786 772 773								
2474	788 775 776								
2475	776 789 788								
2476	789 776 777								
2477	NSECT= 56								
2478	1034 682 683 3 16								
2479	GROUP 4' TURBINE END								
2480	NMAT= 4								
2481	NSECT= 7								
2482	967 934 935 3 16								
2483	NSECT= 1								
2484	966 950 951 3 16								
2485	GROUP 5' ROTOR								
2486	NMAT= 4								
2487	NSECT= 19								
2488	968 985 986 3 16								
2489	NSECT= 55								
2490	1033 1017 1018 3 16								
2491	NMAT= 4								
2492	NSECT= 54								
2493	1034 1035 1036 3 16								
2494	1051 1035 1036 3 16								
2495	1068 1035 1036 3 16								
2496	1068 1052 1053 3 16								
2497	1069 1052 1053 3 16								
2498	*(BN)								
2499	511	\$	PUMP HOUSE I/F FLG QM END						
2500	274	\$	PUMP HOUSE I/F FLG PREBURNER END						
2501	318	\$	PUMP HOUSE I/F FLG PREBURNER END						
2502	362	\$	PUMP HOUSE I/F FLG PREBURNER END						
2503	404	\$	PUMP HOUSE I/F FLG PREBURNER END						
2504	467	\$	PUMP HOUSE I/F FLG QM END						
2505	555	\$	PUMP HOUSE I/F FLG QM END						
2506	597	\$	PUMP HOUSE I/F FLG QM END						
2507	730,742,4	\$	HOUSING FLANGE						

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2508	770,789,1	\$	ALLIACH FLANGE
2509	854,866,4	\$	TURBINE EXTREME END
2510	918,930,4	\$	TURBINE HOUSING
2511	1033	\$	SHAFT TURBINE END
2512	1034	\$	SHAFT AT BEARING MID
2513	1068	\$	SHAFT AT BEARING PUMP END
2514	*		ENDHP01P

@PRI,S HPFTP.ALL

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MFQLEYBIN202*MPFIP(1),ALL

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2	G=386.,HICORE=150000,SEG=0								
3	*ITAB1								
4	START 1641 S. MPFIP								
5	TITLE' MPFIP								
6	MATC								
7		1	30.1+6	.31		.295			
8		2	16.0+6	.3		.163			
9		3	10.4+6	.33		.098			
10	ALTRF								
11	2 1 -45. 2 80. 3 0. -17.942 -18.03123 -18.03123								
12	JLOC								
13	FORMAT= 2								
14	NREF= 2								
15	1 0. 0. +1.9								
16	2 1.75 0. 1.2 1.75 330. 1.2 12								
17	14 2.2 0. 0. 2.2 345. 0. 24								
18	38 1.6 0. -.9 1.6 345. -.9 24								
19	62 2.4 0. -.9 2.4 345. -.9 24								
20	86 3.7 0. -1.65 3.7 345. -1.65 24								
21	110 4.5 0. -1.1 4.5 345. -1.1 24								
22	134 4.0 0. +.35 4. 345. +.35 24								
23	158 6.2 0. +.35 6.2 345. +.35 24								
24	182 6.2 0. -1.1 6.2 345. -1.1 24								
25	206 6.2 0. -3.6 6.2 345. -3.6 24								
26	230 6.2 0. -5. 6.2 345. -5. 24								
27	254 6.2 0. -6.7 6.2 345. -6.7 24								
28	278 8. 0. -3.6 8. 345. -3.6 24								
29	302 8. 0. -5. 8. 345. -5. 24								
30	326 8.9 0. -4.5 8.9 345. -4.5 24								
31	350 8.9 0. -3.74 8.9 330. -3.74 12								
32	362 8.0 0. -9.2 8.0 345. -9.2 24								
33	386 9.4 0. -10. 9.4 345. -10. 24								
34	410 10. 0. -11.65 10. 345. -11.65 24								
35	434 9.6 0. -13.15 9.6 345. -13.15 24								
36	458 8.6 0. -14.2 8.6 345. -14.2 24								
37	482 7.35 0. -13.35 7.35 345. -13.35 24								
38	506 6.8 0. -11.7 6.8 345. -11.7 24								
39	530 6.8 0. -10.85 6.8 345. -10.85 24								
40	554 2.9 0. -10.35 2.9 345. -10.35 24								
41	578 2.9 0. -8.7 2.9 345. -8.7 24								
42	602 2. 0. -7.4 2. 345. -7.4 24								
43	626 6.4 0. -13.1 6.4 345. -13.1 24								
44	650 1.35 0. -14.3 1.35 345. -14.3 24								
45	674 6.75 0. -16.2 6.75 345. -16.2 24								
46	698 8.6 0. -15.35 8.6 345. -15.35 24								
47	722 7.6 0. -18.4 7.6 345. -18.4 24								
48	746 1.35 0. -19.3 1.35 345. -19.3 24								
49	770 6.6 0. -21.1 6.6 345. -21.1 24								
50	794 8.6 0. -18.5 8.6 345. -18.5 24								
51	818 9.4 0. -18.5 9.4 345. -18.5 24								
52	842 9.15 0. -20.25 9.15 345. -20.25 24								
53	866 8.65 0. -21.75 8.65 345. -21.75 24								
54	890 7.6 0. -22.55 7.6 345. -22.55 24								
55	914 6.25 0. -23.3 6.25 345. -23.3 24								
56	938 5.9 0. -21.95 5.9 345. -21.95 24								

C-3

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57	962	4.5	0.	-21.95	4.5	345.	-21.95	24
58	986	3.3	0.	-23.	3.3	345.	-23.	24
59	1010	3.6	0.	-24.2	3.6	345.	-24.2	24
60	1034	4.25	0.	-24.7	4.25	345.	-24.7	24
61	1058	5.25	0.	-24.3	5.25	345.	-24.3	24
62	1082	6.2	0.	-23.95	6.2	345.	-23.95	24
63	1106	7.1	0.	-25.5	7.1	345.	-25.5	24
64	1130	7.	0.	-26.7	7.	345.	-26.7	24
65	1154	6.15	0.	-27.52	6.15	345.	-27.52	24
66	1178	4.95	0.	-27.6	4.95	345.	-27.6	24
67	1202	4.15	0.	-27.05	4.15	345.	-27.05	24
68	1226	3.7	0.	-26.1	3.7	345.	-26.1	24
69	1250	2.1	0.	-24.4	2.1	345.	-24.4	24
70	1274	1.9	0.	-23.	1.9	345.	-23.	24
71	1298	2.95	0.	-26.5	2.95	345.	-26.5	24
72	1322	2.95	0.	-28.65	2.95	345.	-28.65	24
73	1346	1.1	0.	-28.65	1.1	345.	-28.65	24
74	1370	1.1	0.	-29.5	1.1	345.	-29.5	24
75	1394	2.95	0.	-30.25	2.95	345.	-30.25	24
76	1418	2.95	0.	-31.5	2.95	345.	-31.5	24
77	1442	1.55	0.	-31.35	1.55	330.	-31.35	12
78	1454	0.	0.	-31.8				
79	1455	0.	0.	-31.2				
80	1456	0.	0.	-29.5				
81	1457	0.	0.	-24.4				
82	1458	0.	0.	-21.1				
83	1459	6.	0.	-21.1	6.	345.	-21.1	24
84	1483	0.	0.	-16.2				
85	1484	6.	0.	-16.2	6.	345.	-16.2	24
86	1508	0.	0.	-11.25				
87	1509	5.9	0.	-11.25	5.9	345.	-11.25	24
88	1533	0.	0.	-7.65				
89	1534	1.55	0.	-7.65	1.55	330.	-7.65	12
90	1546	1.55	0.	-5.7	1.55	330.	-5.7	12
91	1558	2.5	0.	-5.7	2.5	330.	-5.7	12
92	1570	5.6	0.	-5.7	5.6	330.	-5.7	12
93	1582	2.5	0.	-3.12	2.5	330.	-3.12	12
94	1594	5.6	0.	-3.12	5.6	330.	-3.12	12
95	1606	.85	0.	-3.12	.85	330.	-3.12	12
96	1618	.85	0.	-.9	.85	330.	-.9	12
97	1630	.85	0.	-.4	.85	330.	-.4	12
98	MREF							
99	1	1	1	1	.1736			
100	BA							
101	TUBE 1,	0.,.75						
102	TUBE 2,	0.,.9						
103	TUBE 3,	0.,.2						
104	SA							
105	1	.05						
106	2	.1						
107	3	.15						
108	4	.2						
109	5	.25						
110	6	.3						
111	7	.4						
112	8	.5						
113	9	.6						

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114	10 .7
115	11 .8
116	12 .9
117	13 1.0
118	14 1.25
119	15 1.5
120	16 1.75
121	17 2.
122	CON= 1
123	ZERO 6 : 1458
124	ZERO 2 : 1459 : 1484 : 1509
125	ZERO 6 : 1459,1482 : 1484,1507 : 1509,1532 : 1570,1581 : 1594,1605
126	JOINT REFERENCE FRAMES & PER CIV AUG, 1, 1983
127	NREF=2 : 1 : 1454,1458 : 1483 : 1508 : 1533 & ON AXIS JOINTS
128	NREF=-2 : 2,1453 : 1459,1482 : 1484,1507 : 1509,1532 : 1534,1641 & CYLINDRICAL
129	JSEQ
130	1458/1641 : 1/457 : 530/625 : 448/529 : 650/671 : 626/649
131	698/721 : 794/889 : 674/697 : 722/793 : 890/1457
132	*(EIQ)
133	E21
134	GROUP 1' SHAFT
135	NMAT= 2
136	NSECT= 1
137	1455 1456
138	NSECT= 2
139	1456 1457
140	NSECT= 3
141	1457 1458
142	1458 1483
143	1483 1508
144	1508 1533
145	E33
146	GROUP 1' FWD BEARING SUPPORT
147	NMAT= 1
148	NSECT= 6
149	1 2 3 3 12
150	NSECT= 13
151	37 14 2
152	14 15 2
153	15 16 3
154	16 17 3
155	17 18 4
156	18 19 4
157	19 20 5
158	20 21 5
159	21 22 6
160	22 23 6
161	23 24 7
162	24 25 7
163	25 26 8
164	26 27 8
165	27 28 9
166	28 29 9
167	29 30 10
168	30 31 10
169	31 32 11
170	32 33 11

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171	33 34 12
172	34 35 12
173	35 36 13
174	36 37 13
175	3 2 15
176	4 3 17
177	5 4 19
178	6 5 21
179	7 6 23
180	6 7 25
181	9 8 27
182	10 9 29
183	11 10 31
184	12 11 33
185	13 12 35
186	2 13 37
187	NSECT= 8
188	38 39 1618
189	39 40 1619
190	40 41 1619
191	41 42 1620
192	42 43 1620
193	43 44 1621
194	44 45 1621
195	45 46 1622
196	46 47 1622
197	47 48 1623
198	48 49 1623
199	49 50 1624
200	50 51 1624
201	51 52 1625
202	52 53 1625
203	53 54 1626
204	54 55 1626
205	55 56 1627
206	56 57 1627
207	57 58 1628
208	58 59 1628
209	59 60 1629
210	60 61 1629
211	61 38 1618
212	1619 1618 39
213	1620 1619 41
214	1621 1620 43
215	1622 1621 45
216	1623 1622 47
217	1624 1623 49
218	1625 1624 51
219	1626 1625 53
220	1627 1626 55
221	1628 1627 57
222	1629 1628 59
223	1618 1629 61
224	GROUP 2* ATTACH FLANGE
225	NSECT= 13
226	326 327 350
227	327 328 351

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220	328	329	351
229	329	330	352
230	330	331	352
231	331	332	353
232	332	333	353
233	333	334	354
234	334	335	354
235	335	336	355
236	336	337	355
237	337	338	356
238	338	339	356
239	339	340	357
240	340	341	357
241	341	342	358
242	342	343	358
243	343	344	359
244	344	345	359
245	345	346	360
246	346	347	360
247	347	348	361
248	348	349	361
249	349	350	350
250	351	350	327
251	352	351	329
252	353	352	331
253	354	353	333
254	355	354	335
255	356	355	337
256	357	356	339
257	358	357	341
258	359	358	343
259	360	359	345
260	361	360	347
261	350	361	349
262	GROUP 3: EXIT VOLUTE		
263	NSECT= 6		
264	530	554	578
265	532	556	580
266	534	558	582
267	536	560	584
268	538	562	586
269	540	564	588
270	542	566	590
271	544	568	592
272	546	570	594
273	548	572	596
274	550	574	598
275	552	576	600
276	GROUP 4: HOUSING		
277	NHAT= 2		
278	NSECT= 1		
279	914	938	939
280	GROUP 5: INLET VOLUTE		
281	NHAT= 2		
282	NSECT= 1		
283	1034	1058	1059
284	GROUP 6: AFT BEARING HOUSING		

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285	NMAT= 1
286	NSECT= 1
287	1394 1395 1442
288	1395 1396 1443
289	1396 1397 1443
290	1397 1398 1444
291	1398 1399 1444
292	1399 1400 1445
293	1400 1401 1445
294	1401 1402 1446
295	1402 1403 1446
296	1403 1404 1447
297	1404 1405 1447
298	1405 1406 1448
299	1406 1407 1448
300	1407 1408 1449
301	1408 1409 1449
302	1409 1410 1450
303	1410 1411 1450
304	1411 1412 1451
305	1412 1413 1451
306	1413 1414 1452
307	1414 1415 1452
308	1415 1416 1453
309	1416 1417 1453
310	1417 1394 1442
311	1443 1442 1395
312	1444 1443 1397
313	1445 1444 1399
314	1446 1445 1401
315	1447 1446 1403
316	1448 1447 1405
317	1449 1448 1407
318	1450 1449 1409
319	1451 1450 1411
320	1452 1451 1413
321	1453 1452 1415
322	1442 1453 1417
323	NSECT= 1
324	1454 1442 1443 3 12 1 0
325	GROUP 7 * INNER STATOR
326	NSECT= 1
327	675 626 698
328	GROUP 8 * ROTOR AFT
329	NMAT= 2
330	NSECT= 6
331	1456 1370 1371 3 24 1 0
332	1457 1250 1251 3 24 1 0
333	NSECT= 9
334	1458 1459 1460 3 24 1 0
335	1483 1484 1485 3 24 1 0
336	1508 1509 1510 3 24 1 0
337	GROUP 9 * ROTOR FWD
338	NSECT= 8
339	1533 1534 1535 3 12 1 0
340	E43
341	GROUP 1 * FWD BEARING SUPPORT

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342	NHAT= 1
343	NSECT= 13
344	14 38 39 15 2 24 1
345	NSECT= 10
346	14 62 63 15 2 24 1
347	NSECT= 7
348	14 134 135 15 2 24 1
349	NSECT= 7
350	62 86 87 63 2 24 1
351	NSECT= 9
352	86 110 111 87 2 24 1
353	NSECT= 9
354	110 134 135 111 2 24 1
355	NSECT=10
356	110 134 158 182
357	112 136 160 184
358	114 138 162 186
359	116 140 164 188
360	118 142 166 190
361	120 144 168 192
362	122 146 170 194
363	124 148 172 196
364	126 150 174 198
365	128 152 176 200
366	130 154 178 202
367	132 156 180 204
368	GROUP 2 ^o ATTACH FLANGE
369	NSECT= 13
370	158 182 183 159 2 24 1
371	182 206 207 183 2 24 1
372	NSECT= 8
373	206 230 231 207 2 24 1
374	230 254 255 231 2 24 1
375	230 206 278 302 1 1 1 12 2
376	NSECT= 13
377	278 302 303 279 2 24 1
378	278 326 327 279 2 24 1
379	326 302 303 327 2 24 1
380	NSECT= 7
381	302 362 363 303 2 24 1
382	GROUP 3 ^o EXIT VOLUTE
383	NSECT= 6
384	362 386 387 363 2 24 1
385	386 410 411 387 2 24 1
386	410 434 435 411 2 24 1
387	434 458 459 435 2 24 1
388	458 482 483 459 2 24 1
389	482 506 507 483 2 24 1
390	NSECT= 9
391	506 626 627 507 2 24 1
392	NSECT= 5
393	506 530 531 507 2 24 1
394	NSECT= 7
395	530 362 363 531 2 24 1
396	NSECT= 6
397	578 530 531 579 2 24 1
398	554 530 531 555 2 24 1

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399	NSECT= 13
400	554 578 579 555 2 24 1
401	NSECT= 8
402	578 602 603 579 2 24 1
403	GROUP 4 ' HOUSING
404	NSECT= 5
405	458 698 699 459 2 24 1
406	698 794 795 699 2 24 1
407	NSECT= 13
408	794 818 819 795 2 24 1
409	NMAT= 2
410	NSECT= 14
411	818 842 843 819 2 24 1
412	NSECT= 10
413	842 866 867 843 2 24 1
414	866 890 891 867 2 24 1
415	NSECT= 9
416	890 914 915 891 2 24 1
417	NSECT= 6
418	914 1010 1011 915 2 24 1
419	NSECT= 8
420	1010 986 987 1011 2 24 1
421	NSECT= 8
422	986 962 963 987 2 24 1
423	NSECT= 4
424	962 938 939 963 2 24 1
425	NSECT= 7
426	938 914 915 939 2 24 1
427	NSECT= 13
428	938 770 771 939 2 24 1
429	NSECT= 8
430	770 890 891 771 2 24 1
431	GROUP 5 ' INLET VOLUTE
432	NMAT= 2
433	NSECT= 8
434	1010 1034 1035 1011 2 24 1
435	NSECT= 2
436	1034 1058 1059 1035 2 24 1
437	1058 1082 1083 1059 2 24 1
438	1082 1106 1107 1083 2 24 1
439	1106 1130 1131 1107 2 24 1
440	1130 1154 1155 1131 2 24 1
441	1154 1178 1179 1155 2 24 1
442	1178 1202 1203 1179 2 24 1
443	1202 1226 1227 1203 2 24 1
444	NSECT= 6
445	1226 1250 1251 1227 2 24 1
446	GROUP 6 ' AFT BEARING HOUSING
447	NMAT= 1
448	NSECT= 5
449	986 1010 1250 1274
450	988 1012 1252 1276
451	990 1014 1254 1278
452	992 1016 1256 1280
453	994 1018 1258 1282
454	996 1020 1260 1284
455	998 1022 1262 1286

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456	1000 1024 1264 1288
457	1002 1026 1266 1290
458	1004 1028 1268 1292
459	1006 1030 1270 1294
460	1008 1032 1272 1296
461	NSECT= 4
462	1274 1250 1251 1275 2 24 1
463	1250 1298 1299 1251 2 24 1
464	NSECT= 12
465	1298 1322 1323 1299 2 24 1
466	1322 1394 1395 1323 2 24 1
467	NSECT= 7
468	1394 1418 1419 1395 2 24 1
469	NSECT= 7
470	1322 1346 1347 1323 2 24 1
471	1346 1370 1371 1347 2 24 1
472	GROUP 7 ' INTERNAL STATORS
473	NMAT= 3
474	NSECT= 4
475	722 890 891 723 2 24 1
476	NSECT= 5
477	722 770 771 723 2 24 1
478	674 770 771 675 2 24 1
479	626 698 699 627 2 24 1
480	626 674 675 627 2 24 1
481	NSECT= 2
482	674 698 699 675 2 24 1
483	674 722 723 675 2 24 1
484	722 698 699 723 2 24 1
485	NSECT= 5
486	770 746 747 771 2 24 1
487	746 674 675 747 2 24 1
488	674 650 651 675 2 24 1
489	650 626 627 651 2 24 1
490	GROUP 8 ' ROTOR AFT
491	1618 1630 1631 1619 2 12 1
492	GROUP 9 ' ROTOR FWD
493	NSECT= 12
494	1534 1546 1547 1535 2 12 1
495	1546 1558 1559 1547 2 12 1
496	NSECT= 10
497	1558 1570 1571 1559 2 12 1
498	1558 1582 1583 1559 2 12 1
499	1582 1594 1595 1583 2 12 1
500	NSECT= 9
501	1582 1606 1607 1583 2 12 1
502	NSECT= 9
503	1606 1618 1619 1607 2 12 1
504	NSECT= 4
505	1618 1630 1631 1619 2 12 1
506	*(BNI)
507	350,361 \$ #BOUNDARY# FLANGE NODES # HGM
508	1454 \$ AFT END NODE
509	1456 \$ AFT BEARING
510	1457 \$ INTERMEDIATE BEARING
511	1483 \$ INTERMEDIATE ROTOR
512	1533 \$ ON ROTOR

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513	1618,1629	\$	FORWARD BEARING
514	158	\$	FORWARD CASE
515	164	\$	FORWARD CASE
516	170	\$	FORWARD CASE
517	176	\$	FORWARD CASE
518	698	\$	INTERMEDIATE CASE
519	704	\$	INTERMEDIATE CASE
520	710	\$	INTERMEDIATE CASE
521	716	\$	INTERMEDIATE CASE
522	*		ENDHPFTP

OPHT, S. NOZZLE, NOZ1

[The following section contains multiple lines of text that are extremely faint and illegible due to the poor quality of the original document.]



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MF0LEYBIN20?#NOZZLE(1).NOZ1
1      *I29 NOZ1 DATA 1)                               ENDNO:1
2      G=386.4,MNAME=CEM,HICORE=150000
3      *(TAB)
4      $START 198
5      TITLE* SSNE NOZZLE - MACRO ELEMENT 1 (NOZ1)
6      MAIC
7      1 29.6+06 .3 .297 6.0-06
8      NSM
9      1 .05
10     2 .0188 AFT MANIFOLD
11     3 .005866 M05Y SKIN
12     4 .000928 AFT VAY SKIN
13     JOINT LOCATIONS 5 ***** NOZZLE MACRO ELEMENT 1 *****
14     FORMAT=2
15     $
16     $ *****
17     $ ***
18     $ *** C Y L I N D R I C A L C O O R D I N A T E S ***
19     $ ***
20     $ *****
21     $
22     1 45.457 0. -119.578 45.457 340. -119.578 18 $ ROW 1
23     19 45.328 0. -118.128 45.328 340. -118.128 18 $ ROW 2
24     37 45.189 0. -116.770 45.189 340. -116.770 18 $ ROW 3
25     55 44.830 0. -113.471 44.830 340. -113.471 18 $ ROW 4
26     73 44.469 0. -110.380 44.469 340. -110.380 18 $ ROW 5
27     91 44.147 0. -107.800 44.147 340. -107.800 18 $ ROW 6
28     109 43.976 0. -106.885 43.976 340. -106.885 18 $ ROW 7
29     127 43.495 0. -102.965 43.495 340. -102.965 18 $ ROW 8
30     145 43.056 0. -99.961 43.056 340. -99.961 18 $ ROW 9
31     163 42.590 0. -96.961 42.590 340. -96.961 18 $ ROW 10
32     181 42.033 0. -93.585 42.033 340. -93.585 18 $ ROW 11
33     $
34     JREF
35     NREF=-1 : 1,198
36     MREF
37     FORM 2
38     1 2 0. 0. -112.578
39     FORM 1
40     2 1 3 -1 1.
41     FORM 2
42     3 1 0. 0. 0.
43     BRL
44     1 -1 -.7417 0. 0. -1 -.7417 0. 0.
45     2 -1 -.9362 0. 0. -1 -.9362 0. 0.
46     3 -1 -1.091 0. 0. -1 -1.091 0. 0.
47     4 -1 -1.169 0. 0. -1 -1.169 0. 0.
48     5 -1 -1.169 0. 0. -1 -1.169 0. 0.
49     6 -1 -1.245 0. 0. -1 -1.245 0. 0.
50     7 -1 -1.427 0. 0. -1 -1.427 0. 0.
51     8 -1 -1.562 0. 0. -1 -1.562 0. 0.
52     9 -1 -1.610 0. 0. -1 -1.610 0. 0.
53     10 -1 -.823 0. -.1 -1 -.823 0. -.1
54     11 -1 -.823 0. -.1 1 0. 0. 0.
55     BA
56     TUBE 1 .686 .795

```

ORIGINAL PAGE IS
OF POOR QUALITY

57	TUBE	2	.686	.766						
58	TUBE	3	.716	.766						
59	TUBE	4	.716	.766						
60	TUBE	5	.686	.860						
61	GIVN	6	.03686	1.	.03686	1.	.1328	.07372		
62	GIVN	7	.02390	1.	.02390	1.	.1237	.04780		
63	GIVN	8	.05753	1.	.05753	1.	.1877	.1151		
64	TUBE	9	.7438	.8202%	DUMMY					
65	TUBE	10	.7438	.8202%	DUMMY					
66	GIVN	11	.1041	1.	.0752	1.	.1143	.1893		
67	GIVN	12	.1912	1.	.1135	1.	.1609	.3047		
68	GIVN	13	.2588	1.	.1444	1.	.1859	.4032		
69	GIVN	14	.3326	1.	.1807	1.	.2227	.5133		
70	GIVN	15	.3646	1.	.1994	1.	.2467	.5640		
71	GIVN	16	.5892	1.	.3215	1.	.3736	.9628		
72	GIVN	17	.4420	1.	.2433	1.	.2836	.6853		
73	GIVN	18	.5083	1.	.2900	1.	.3356	.7993		
74	GIVN	19	.5364	1.	.3095	1.	.3528	.8459		
75	GIVN	20	.7836	1.	.4725	1.	.6770	3.611	0.	-.0720 .072 0.
76	SHELL SECTION PROP									
77	FORM UNCOUPLED									
78	1	15.07	9.66	15.05	0.	0.	0.	4.344+6	4.344+6	4.344+6
79	1.991+6	.310+6	3.104+6	0.	0.	0.	.310+6			
80	48.8	1125.	7449.	0.	0.	0.	1312.			
81	2	62.76	20.88	40.07	0.	0.	0.	5.499+6	5.499+6	5.499+6
82	.478+6	.088+6	1.437+6	0.	0.	0.	.088+6			
83	69.2	1727.	11445.	0.	0.	0.	2015.			
84	3	86.71	28.49	54.76	0.	0.	0.	4.848+6	4.848+6	4.848+6
85	.346+6	.0606+6	1.053+6	0.	0.	0.	.0606+6			
86	34.5	976.	6471.	0.	0.	0.	1139.			
87	4	86.21	25.91	50.88	0.	0.	0.	5.967+6	5.967+6	5.967+6
88	.348+6	.0869+6	1.158+6	0.	0.	0.	.0869+6			
89	55.	1807.	11990.	0.	0.	0.	2108.			
90	5	14.96	10.27	15.56	0.	0.	0.	6.822+6	6.822+6	6.822+6
91	2.005+6	.327+6	2.920+6	0.	0.	0.	.327+6			
92	78.1	2711.	17997.	0.	0.	0.	3163.			
93	6	14.94	9.87	15.15	0.	0.	0.	7.641+6	7.641+6	7.641+6
94	2.008+6	.333+6	3.038+6	0.	0.	0.	.333+6			
95	108.2	3858.	25613.	0.	0.	0.	4501.			
96	7	5882.	30.86	23308.	0.	0.	0.	7.641+6	7.641+6	7.641+6
97	.0051+6	.0649+6	.972+6	0.	0.	0.	.0649+6			
98	35.3	1108.	7353.	0.	0.	0.	1293.			
99	4111.	.0288	.0138	.0098	.0106	.0261	.0271	.0135		
100	FORM ISOTROPIC									
101	8	.050								
102	9	.0457								
103	10	.1								
104	11	.060								
105	88									
106	1	3125.:	0.	3125.	:	0.	0.	3125.		
107	0.	-1500.	0.	2350.						
108	1500.	0.	0.	2350.						
109	0.	0.	0.	0.	2350.					
110	\$									
111	\$	*****								
112	\$	***								
113	\$	*** NO. 2.1 BOUNDARY CONDITIONS ***								

ORIGINAL PAGE IS
OF POOR QUALITY

```

114 $ ***
115 $ .....
116 $
117 CONSTRAINT DEFINITION 1
118 $ *** NONE - FREE STRUCTURE ***
119 RMAS
120 CM ,00259 ,00259
121 REPEAT 18 1: 1 0. 0. .1805
122 *(ELD)
123 $
124 $ .....
125 $ ***
126 $ *** NOZ1 ELEMENT DEFINITION ***
127 $ ***
128 $ .....
129 $
130 E21
131 NREF=2
132 NNSW=2
133 NSECT=20 : NOFF=10 : 1 2 2 18 8 ROW 1
134 NNSW=0
135 NSECT=19 : NOFF=9 : 109 110 2 18 8 ROW 7
136 $
137 E43
138 GROUP 1* NOZ1 PLATE ELEMENTS
139 NSECT=7 : NNSW=4 : 1 1 19 20 2 2 18 5
140 NSECT=6 : NNSW=3 : 109 127 120 110 2 18 4
141 GROUP 2* NOZ1 OVERLAY
142 NSECT=10 : NNSW=0 : 1 19 20 2 2 18 1
143 NSECT=11 : NNSW=0 : 19 37 38 20 2 18 1
144 NSECT=11 : NNSW=0 : 73 91 92 79 2 18 1
145 NSECT=6 : NNSW=0 : 91 109 110 92 2 18 1
146 @IDH1
147 1,18
148 181,198
149 $ .....
ENDNOZ1

```

SPRT,S NOZZLE,NOZ2

ORIGINAL PAGE IS
OF POOR QUALITY

```

MFOLFYBIN202,NOZZLE,111,NOZZ
1 *129 NOZZ DATA 11 ENDNOZZ
2 G=386.4,MNAME=CEM,HICORE=150000
3 *(TAB)
4 START 162
5 TITLE ' SSME NOZZLE - MACRO ELEMENT 2 (NOZZ)
6 MATC
7 1 29.6*06 .3 .297 6.0-06
8 NSW
9 1 .05
10 2 .018$ AFI MANIFOLD
11 3 .00586$ MOST SKIN
12 4 .00097$ AFI BAY SKIN
13 JOINT LOCATIONS $ ***** NOZZLE MACRO ELEMENT 2 *****
14 FORMAT=2
15 $
16 $ *****
17 $ ***
18 $ *** CYLINDRICAL COORDINATES ***
19 $ ***
20 $ *****
21 $
22 1 42.033 0. -93.585 42.033 340. -93.585 18 $ ROW 11
23 19 41.575 0. -90.958 41.575 340. -90.958 18 $ ROW 12
24 37 41.024 0. -87.956 41.024 340. -87.956 18 $ ROW 13
25 55 40.443 0. -84.955 40.443 340. -84.955 18 $ ROW 14
26 73 39.752 0. -81.585 39.752 340. -81.585 18 $ ROW 15
27 91 39.184 0. -78.951 39.184 340. -78.951 18 $ ROW 16
28 109 38.507 0. -75.950 38.507 340. -75.950 18 $ ROW 17
29 127 37.794 0. -72.948 37.794 340. -72.948 18 $ ROW 18
30 145 37.208 0. -70.585 37.208 340. -70.585 18 $ ROW 19
31 $
32 JREF
33 NREF=-1 : 1,162
34 MREF
35 FORM 2
36 1 2 0. 0. -112.578
37 FORM 1
38 2 1 3 -1 1.
39 FORM 2
40 3 1 0. 0. 0.
41 BRL
42 1 -1 -.7417 0. 0. -1 -.7417 0. 0.
43 2 -1 -.9362 0. 0. -1 -.9362 0. 0.
44 3 -1 -1.091 0. 0. -1 -1.091 0. 0.
45 4 -1 -1.169 0. 0. -1 -1.169 0. 0.
46 5 -1 -1.169 0. 0. -1 -1.169 0. 0.
47 6 -1 -1.245 0. 0. -1 -1.245 0. 0.
48 7 -1 -1.427 0. 0. -1 -1.427 0. 0.
49 8 -1 -1.562 0. 0. -1 -1.562 0. 0.
50 9 -1 -1.610 0. 0. -1 -1.610 0. 0.
51 10 -1 -.823 0. -.1 -1 -.823 0. -.1
52 11 -1 -.823 0. -.1 1 0. 0. 0.
53 BA
54 TUBE 1 .686 .795
55 TUBE 2 .686 .766
56 TUBE 3 .716 .766
    
```

ORIGINAL PAGE IS
OF POOR QUALITY

57	TUBE	4	.716	.766					
58	TUBE	5	.686	.860					
59	GIVN	6	.03686	1.	.03686	1.	.1328	.07372	
60	GIVN	7	.02390	1.	.02390	1.	.1237	.04780	
61	GIVN	8	.05753	1.	.05753	1.	.1877	.1151	
62	TUBE	9	.7438	.82028	DUMMY				
63	TUBE	10	.7438	.82028	DUMMY				
64	GIVN	11	.1041	1.	.0752	1.	.1143	.1893	
65	GIVN	12	.1912	1.	.1135	1.	.1609	.3047	
66	GIVN	13	.2588	1.	.1444	1.	.1859	.4032	
67	GIVN	14	.3326	1.	.1807	1.	.2227	.5133	
68	GIVN	15	.3646	1.	.1994	1.	.2467	.5640	
69	GIVN	16	.5892	1.	.3215	1.	.3736	.9628	
70	GIVN	17	.4420	1.	.2433	1.	.2836	.6853	
71	GIVN	18	.5083	1.	.2900	1.	.3356	.7993	
72	GIVN	19	.5364	1.	.3095	1.	.3528	.8459	
73	GIVN	20	.2836	1.	.4725	1.	.6770	1.611 0. -.0720 .072 0.	
74	SHELL SECTION PROP								
75	FORM UNCOUPLED								
76	1	15.07	9.66	15.05	0.	0.	0.	4.344*6 4.344*6 4.344*6	
77	1	.991*6	.310*6	3.109*6	0.	0.	0.	.310*6	
78	48.8	1125.	7449.	0.	0.	0.	1312.		
79	2	62.76	20.88	40.07	0.	0.	0.	5.499*6 5.499*6 5.499*6	
80		.478*6	.088*6	1.437*6	0.	0.	0.	.088*6	
81	69.2	1727.	11445.	0.	0.	0.	2015.		
82	3	86.71	28.49	54.76	0.	0.	0.	4.848*6 4.848*6 4.848*6	
83		.346*6	.0606*6	1.053*6	0.	0.	0.	.0606*6	
84	34.5	976.	6471.	0.	0.	0.	1139.		
85	4	86.21	25.91	50.88	0.	0.	0.	5.967*6 5.967*6 5.967*6	
86		.348*6	.0869*6	1.158*6	0.	0.	0.	.0869*6	
87	55.	1407.	11990.	0.	0.	0.	2108.		
88	5	14.96	10.27	15.56	0.	0.	0.	6.822*6 6.822*6 6.822*6	
89		2.005*6	.327*6	2.920*6	0.	0.	0.	.327*6	
90	78.1	2711.	17997.	0.	0.	0.	3163.		
91	6	14.94	9.87	15.15	0.	0.	0.	7.641*6 7.641*6 7.641*6	
92		2.008*6	.333*6	3.038*6	0.	0.	0.	.333*6	
93	108.2	3858.	25613.	0.	0.	0.	4501.		
94	7	5882.	30.86	23308.	0.	0.	0.	7.641*6 7.641*6 7.641*6	
95		.0051*6	.0649*6	.972*6	0.	0.	0.	.0649*6	
96	35.3	1108.	7353.	0.	0.	0.	1293.		
97	1111.	0288.	.0138.	.0098	.0106	.0261	.0271	.0135	
98	FORM ISOTROPIC								
99	8	.050							
100	9	.0457							
101	10	.1							
102	11	.060							
103	88								
104	1	3125.	0.	3125.	0.	0.	0.	3125.	
105	0.	-1500.	0.	2350.					
106	1500.	0.	0.	2350.					
107	0.	0.	0.	0.	2350.				
108	5								
109	5	*****							
110	5	***						***	
111	5	***	NOZZ	BOUNDARY	CONDITIONS	***		***	
112	5	***						***	
113	5	*****							

ORIGINAL PAGE 13
OF POOR QUALITY

```

114      $
115      CONSTRAINT DEFINITION 1
116      $ *** NONE - FREE STRUCTURE ***
117      *(ELD)
118      $
119      $ .....
120      $ ***
121      $ *** NOZZ ELEMENT DEFINITION ***
122      $ ***
123      $ .....
124      $
125      C21
126      NRCF=2
127      NSECT=18 : NOFF=8 : 1 2 2 18 $ ROW 11
128      NSECT=17 : NOFF=7 : 73 74 2 18 $ ROW 15
129      $
130      E43
131      GROUP 1* NOZZ PLATE ELEMENTS
132      NSECT=5 : NNSW=3 : 1 19 20 2 2 18 8
133      *(BN)
134      1,18
135      145,162
136      $ ENDNOZZ

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@PRT,5 NOZZLE.NOZ3

ORIGINAL PAGE IS
OF POOR QUALITY

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MFULEY01N2D2*NOZZLE(1).NOZ3
1 *I29 NOZ3 DATA 1) ENOZ3
2 G=306.4,MNAME=CEH,MICORE=130000
3 *(TAB)
4 START 162
5 TITLE* SSME NOZZLE - MACRO ELEMENT 3 (NOZ3)
6 MATC
7 1 29.6*06 .3 .297 6.0-06
8 NSW
9 1 .05
10 2 .0188 APT MANIFOLD
11 3 .005868 MOST SKIN
12 4 .000978 APT BAY SKIN
13 JOINT LOCATIONS & ***** NOZZLE MACRO ELEMENT 3 *****
14 FORMAT=2
15 $
16 $ *****
17 $ ***
18 $ *** C Y L I N D R I C A L C O O R D I N A T E S ***
19 $ ***
20 $ *****
21 $
22 1 37.208 0. -50.585 37.208 340. -70.585 18 $ ROW 19
23 19 36.527 0. -67.946 36.527 340. -67.946 18 $ ROW 20
24 37 35.716 0. -69.945 35.716 340. -69.945 18 $ ROW 21
25 55 34.866 0. -61.944 34.866 340. -61.944 18 $ ROW 22
26 73 34.229 0. -59.785 34.229 340. -59.785 18 $ ROW 23
27 91 33.669 0. -57.943 33.669 340. -57.943 18 $ ROW 24
28 109 32.721 0. -54.942 32.721 340. -54.942 18 $ ROW 25
29 127 31.729 0. -51.941 31.729 340. -51.941 18 $ ROW 26
30 145 30.709 0. -48.985 30.709 340. -48.985 18 $ ROW 27
31 $
32 JREF
33 NREF=-1 : 1,162
34 HREF
35 FORM 2
36 1 2 0. 0. -112.575
37 FORM 1
38 2 1 3 -1 1.
39 FORM 2
40 3 1 0. 0. 0.
41 BRL
42 1 -1 -.7417 0. 0. -1 -.7417 0. 0.
43 2 -1 -.9362 0. 0. -1 -.9362 0. 0.
44 3 -1 -1.091 0. 0. -1 -1.091 0. 0.
45 4 -1 -1.169 0. 0. -1 -1.169 0. 0.
46 5 -1 -1.169 0. 0. -1 -1.169 0. 0.
47 6 -1 -1.245 0. 0. -1 -1.245 0. 0.
48 7 -1 -1.427 0. 0. -1 -1.427 0. 0.
49 8 -1 -1.562 0. 0. -1 -1.562 0. 0.
50 9 -1 -1.610 0. 0. -1 -1.610 0. 0.
51 10 -1 -.823 0. -.1 -1 -.823 0. -.1
52 11 -1 -.823 0. -.1 1 0. 0. 0.
53 BA
54 TUBE 1 .686 .795
55 TUBE 2 .686 .766
56 TUBE 3 .716 .766
    
```

ORIGINAL PAGE IS
OF POOR QUALITY

57	TUBE	4	.716	.766						
58	TUBE	5	.686	.860						
59	GIVN	6	.03686	1.	.03686	1.	.1328	.07172		
60	GIVN	7	.02390	1.	.02390	1.	.1237	.04780		
61	GIVN	8	.05753	1.	.05753	1.	.1877	.1151		
62	TUBE	9	.7438	.82025	DUMMY					
63	TUBE	10	.7438	.82025	DUMMY					
64	GIVN	11	.1041	1.	.0752	1.	.1143	.1893		
65	GIVN	12	.1912	1.	.1135	1.	.1609	.3047		
66	GIVN	13	.2588	1.	.1444	1.	.1859	.4032		
67	GIVN	14	.3326	1.	.1807	1.	.2227	.5133		
68	GIVN	15	.3646	1.	.1994	1.	.2467	.5640		
69	GIVN	16	.5892	1.	.3215	1.	.3736	.9628		
70	GIVN	17	.4420	1.	.2433	1.	.2836	.6853		
71	GIVN	18	.5083	1.	.2900	1.	.3356	.7993		
72	GIVN	19	.5364	1.	.3095	1.	.3528	.8459		
73	GIVN	20	.2836	1.	.4725	1.	.6770	3.611	0. - .0720 .072 0.	
74	SHELL SECTION PROP									
75	FORM UNCOUPLED									
76	1	15.07	9.66	15.05	0.	0.	0.	4.344+6	4.344+6 4.344+6	
77		1.991+6	.310+6	3.104+6	0.	0.	0.	.310+6		
78		48.8	1125.	7449.	0.	0.	0.	1312.		
79	2	62.76	20.88	40.07	0.	0.	0.	5.499+6	5.499+6 5.499+6	
80		.478+6	.088+6	1.437+6	0.	0.	0.	.088+6		
81		69.2	1727.	11445.	0.	0.	0.	2015.		
82	3	86.71	28.49	54.76	0.	0.	0.	4.848+6	4.848+6 4.848+6	
83		.346+6	.0606+6	1.053+6	0.	0.	0.	.0606+6		
84		34.5	976.	6471.	0.	0.	0.	1139.		
85	4	86.21	25.91	50.88	0.	0.	0.	5.967+6	5.967+6 5.967+6	
86		.348+6	.0869+6	1.158+6	0.	0.	0.	.0869+6		
87		55.	1807.	11990.	0.	0.	0.	2108.		
88	5	14.96	10.27	15.56	0.	0.	0.	6.822+6	6.822+6 6.822+6	
89		2.005+6	.327+6	2.920+6	0.	0.	0.	.327+6		
90		78.1	2711.	17997.	0.	0.	0.	3163.		
91	6	14.94	9.87	15.15	0.	0.	0.	7.641+6	7.641+6 7.641+6	
92		2.008+6	.333+6	3.038+6	0.	0.	0.	.333+6		
93		108.2	3850.	25613.	0.	0.	0.	4501.		
94	7	5882.	30.86	23308.	0.	0.	0.	7.641+6	7.641+6 7.641+6	
95		.0051+6	.0649+6	.972+6	0.	0.	0.	.0649+6		
96		35.3	1108.	7353.	0.	0.	0.	1293.		
97	W(1)	.0288	.0138	.0098	.0106	.0261	.0271	.0135		
98	FORM ISOTROPIC									
99	8	.050								
100	9	.0457								
101	10	.1								
102	11	.060								
103	BB									
104	1	3125.:	0.	3125.	:	0.	0.	3125.		
105	0.	-1500.	0.	2350.						
106	1500.	0.	0.	0.	2350.					
107	0.	0.	0.	0.	0.	2350.				
108	\$									
109	\$	*****								
110	\$	***								
111	\$	*** NO Z 3 BOUNDARY CONDITIONS ***								
112	\$	**								
113	\$	*****								

ORIGINAL PAGE IS
OF POOR QUALITY

```

114 $
115 CONSTRAINT DEFINITION 1
116 $ *** NONE = FREE STRUCTURE ***
117 *(ELD)
118 $
119 $ .....
120 $ *** .....
121 $ *** NO23 ELEMENT DEFINITION ***
122 $ .....
123 $ .....
124 $
125 E21
126 NREF=7
127 NSECT=16 : NOFF=6 : 1 2 2 18 8 ROW 19
128 NSECT=15 : NOFF=5 : 73 74 2 18 8 ROW 23
129 $
130 E43
131 GROUP 1* NO23 PLATE ELEMENTS
132 NSECT=9 : INNSW=3 : 1 19 20 2 2 18 8
133 NSECT=3 : INNSW=3 : 73 91 92 74 2 18 8
134 GROUP 2* NO23 OVERLAY
135 NSECT=8 : INNSW=0 : 1 19 20 2 2 18 8
136 *(BN)
137 1,18
138 195,162
139 $ ENDNO23

```

@PRI,5 NOZZLE.NO24

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MFOLEYBIN202*NOZZLE(11,NO24
1 *(29 NOZ4 DATA 1) ENDNOZ4
2 G=386.4,MNAME=CEM,WICORE=130000
3 *(TAB)
4 START_162
5 TITLE* SSME NOZZLE - MACRO ELEMENT 4 (NO24)
6 MATC
7 1 29.6*06 .3 .297 6.0-D6
8 NSW
9 1 .05
10 2 .018$ AFT MANIFOLD
11 3 .00586$ MOST SKIN
12 4 .00097$ AFT BAY SKIN
13 JOINT LOCATIONS $ ***** NOZZLE MACRO ELEMENT 4 *****
14 FORMAT=2
15 $
16 $ *****
17 $ ***
18 $ *** C Y L I N D R I C A L C O O R D I N A T E S ***
19 $ ***
20 $ *****
21 $
22 1 30.709 0. -48.985 30.709 340. -48.985 18 $ ROW 27
23 19 29.970 0. -46.941 29.970 340. -46.941 18 $ ROW 28
24 37 28.849 0. -43.941 28.849 340. -43.941 18 $ ROW 29
25 55 27.678 0. -40.939 27.678 340. -40.939 18 $ ROW 30
26 73 26.563 0. -38.185 26.563 340. -38.185 18 $ ROW 31
27 91 25.616 0. -35.933 25.616 340. -35.933 18 $ ROW 32
28 109 24.746 0. -33.930 24.746 340. -33.930 18 $ ROW 33
29 127 23.390 0. -30.926 23.390 340. -30.926 18 $ ROW 34
30 145 21.583 0. -27.125 21.583 340. -27.125 18 $ ROW 35
31 $
32 JREF
33 NREF=-1 : 1,162
34 HREF
35 FORM 2
36 1 2 0. 0. -1.2,578
37 FORM 1
38 2 1 3 -1 1.
39 FORM 2
40 3 1 0. 0. 0.
41 BRL
42 1 -1 -.7417 0. 0. -1 -.7417 0. 0.
43 2 -1 -.9362 0. 0. -1 -.9362 0. 0.
44 3 -1 -1.091 0. 0. -1 -1.091 0. 0.
45 4 -1 -1.169 0. 0. -1 -1.169 0. 0.
46 5 -1 -1.169 0. 0. -1 -1.169 0. 0.
47 6 -1 -1.245 0. 0. -1 -1.245 0. 0.
48 7 -1 -1.427 0. 0. -1 -1.427 0. 0.
49 8 -1 -1.562 0. 0. -1 -1.562 0. 0.
50 9 -1 -1.610 0. 0. -1 -1.610 0. 0.
51 10 -1 -.823 0. -.1 -1 -.823 0. -.1
52 11 -1 -.823 0. -.1 1 0. 0. 0.
53 BA
54 TUBE 1 .686 .795
55 TUBE 2 .686 .766
56 TUBE 3 .716 .766
    
```

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57	TUBE 4	.716	.766								
58	TUBE 5	.686	.860								
59	GIVN 6	.03686	1.	.03686	1.	.1328	.07372				
60	GIVN 7	.02390	1.	.02390	1.	.1237	.04780				
61	GIVN 8	.05753	1.	.05753	1.	.1877	.1151				
62	TUBE 9	.7438	.82028	DUMMY							
63	TUBE 10	.7438	.82028	DUMMY							
64	GIVN 11	.1041	1.	.0752	1.	.1143	.1893				
65	GIVN 12	.1912	1.	.1135	1.	.1609	.1047				
66	GIVN 13	.2588	1.	.1444	1.	.1859	.4032				
67	GIVN 14	.3326	1.	.1807	1.	.2227	.5133				
68	GIVN 15	.3646	1.	.1994	1.	.2467	.5640				
69	GIVN 16	.5892	1.	.3215	1.	.3736	.9628				
70	GIVN 17	.4420	1.	.2433	1.	.2836	.6853				
71	GIVN 18	.5083	1.	.2900	1.	.3356	.7993				
72	GIVN 19	.5364	1.	.3095	1.	.3528	.8459				
73	GIVN 20	.2836	1.	.4725	1.	.6770	3.611	0.	-.0720	.072	0.
74	SHELL SECTION PROP										
75	FORM UNCOUPLED										
76	1	15.07	9.66	15.05	0.	0.	0.	4.344+6	4.344+6	4.344+6	
77		1.991+6	.310+6	3.104+6	0.	0.	0.	.310+6			
78		48.8	1125.	7449.	0.	0.	0.	1312.			
79	2	62.76	20.88	40.07	0.	0.	0.	5.499+6	5.499+6	5.499+6	
80		.478+6	.088+6	1.437+6	0.	0.	0.	.088+6			
81		62.2	1727.	11445.	0.	0.	0.	2015.			
82	3	86.71	28.49	54.76	0.	0.	0.	4.848+6	4.848+6	4.848+6	
83		.346+6	.0606+6	1.053+6	0.	0.	0.	.0606+6			
84		34.5	976.	6471.	0.	0.	0.	1139.			
85	4	86.21	25.91	50.88	0.	0.	0.	5.967+6	5.967+6	5.967+6	
86		.348+6	.0869+6	1.158+6	0.	0.	0.	.0869+6			
87		55.	1807.	11920.	0.	0.	0.	2108.			
88	5	14.96	10.27	15.56	0.	0.	0.	6.822+6	6.822+6	6.822+6	
89		2.005+6	.327+6	2.920+6	0.	0.	0.	.327+6			
90		78.1	2711.	17997.	0.	0.	0.	3163.			
91	6	14.94	9.87	15.15	0.	0.	0.	7.641+6	7.641+6	7.641+6	
92		2.008+6	.333+6	3.038+6	0.	0.	0.	.333+6			
93		108.2	3858.	25613.	0.	0.	0.	4501.			
94	7	5882.	30.86	23308.	0.	0.	0.	7.641+6	7.641+6	7.641+6	
95		.0051+6	.0649+6	.972+6	0.	0.	0.	.0649+6			
96		35.3	1108.	7353.	0.	0.	0.	1293.			
97	M(1)	.0288	.0138	.0098	.0106	.0261	.0271	.0135			
98	FORM ISOTROPIC										
99	8	.050									
100	9	.0457									
101	10	.1									
102	11	.060									
103	88										
104	1	3125.	0.	3125.	0.	0.	0.	3125.			
105	0.	-1500.	0.	2350.							
106	1500.	0.	0.	0.	2350.						
107	0.	0.	0.	0.	0.	2350.					
108	\$										
109	\$	*****									
110	\$	***									***
111	\$	***	NO 2 4	BOUNDARY	CONDITIONS						***
112	\$	***									***
113	\$	*****									

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114 $
115 CONSTRAINT DEFINITION 1
116 $ *** NONE - FREE STRUCTURE ***
117 *(ELD)
118 $
119 $ *****
120 $ ***
121 $ *** NOZ4 ELEMENT DEFINITION ***
122 $ ***
123 $ *****
124 $
125 E21
126 NRCF=2
127 NSECT=14 : NOFF=4 : 1 2 2 18 $ ROW 27
128 NSECT=13 : NOFF=3 : 73 74 2 18 $ ROW 31
129 $
130 E43
131 GROUP 1* NOZ4 PLATE ELEMENTS
132 NSECT=3 :NNSM=3 : 1 19 20 2 2 18 4
133 NSECT=2 :NNSM=3 : 73 91 92 74 2 18 4
134 GROUP 2* NOZ4 OVERLAY
135 NSECT=8 :NNSM=0 : 1 19 20 2 2 18 4
136 NSECT=9 :NNSM=0 : 73 91 92 74 2 18 4
137 *(BN)
138 1,18
139 145,162
140 $ ENDNOZ4

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APRT,5 NOZZLE.NOZ5

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MF OLEYBIN202*NOZZLE(1),NOZ5
1 *129 NOZ5 DATA 11 ENDNOZ5
2 G=386.4,MNAME=CEM,MICORE=130000
3 *(TAB)
4 START 126
5 TITLE SSME NOZZLE - MACRO ELEMENT 5 (NOZ5)
6 MATC
7 1 29.6*06 .3 .297 6.0-06
8 NSM
9 1 .05
10 2 .0186 AFT MANIFOLD
11 3 .00586% MOST SKIN
12 4 .000975 AFT BAY SKIN
13 JOINT LOCATIONS % ***** NOZZLE MACRO ELEMENT 5 *****
14 FORMAT=2
15 $
16 $ *****
17 $ ***
18 $ *** CYLINDRICAL COORDINATES ***
19 $ ***
20 $ *****
21 $
22 1 21.583 0. -27.125 21.583 340. -27.125 18 $ ROW 35
23 19 20.482 0. -24.915 20.482 340. -24.915 18 $ ROW 36
24 37 19.450 0. -22.912 19.450 340. -22.912 18 $ ROW 37
25 55 18.383 0. -20.909 18.383 340. -20.909 18 $ ROW 38
26 73 16.750 0. -18.000 16.750 340. -18.000 18 $ ROW 39
27 91 14.333 0. -13.922 14.333 340. -13.922 18 $ ROW 40
28 109 13.000 0. -10.000 13.000 340. -10.000 18 $ ROW 41
29 $
30 JREF
31 NREF=-1 : 1.126
32 MREF
33 FORM 2
34 1 2 0. 0. -112.578
35 FORM 1
36 2 1 3 -1 1.
37 FORM 2
38 3 1 0. 0. 0.
39 BRL
40 1 -1 -.7417 0. 0. -1 -.7417 0. 0.
41 2 -1 -.9362 0. 0. -1 -.9362 0. 0.
42 3 -1 -1.091 0. 0. -1 -1.091 0. 0.
43 4 -1 -1.169 0. 0. -1 -1.169 0. 0.
44 5 -1 -1.169 0. 0. -1 -1.169 0. 0.
45 6 -1 -1.245 0. 0. -1 -1.245 0. 0.
46 7 -1 -1.427 0. 0. -1 -1.427 0. 0.
47 8 -1 -1.562 0. 0. -1 -1.562 0. 0.
48 9 -1 -1.610 0. 0. -1 -1.610 0. 0.
49 10 -1 -.823 0. -.1 -1 -.823 0. -.1
50 11 -1 -.823 0. -.1 1 0. 0. 0.
51 BA
52 TUBE 1 .686 .795
53 TUBE 2 .686 .766
54 TUBE 3 .716 .766
55 TUBE 4 .716 .766
56 TUBE 5 .686 .860
    
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OF POOR QUALITY

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57 GIVN 6 .03686 1. .03686 1. .1328 .07372
58 GIVN 7 .02390 1. .02390 1. .1237 .04780
59 GIVN 8 .05753 1. .05753 1. .1877 .1151
60 TUBE 9 .7438 .82028 DUMMY
61 TUBE 10 .7438 .82028 DUMMY
62 GIVN 11 .1041 1. .0752 1. .1143 .1893
63 GIVN 12 .1912 1. .1135 1. .1609 .3097
64 GIVN 13 .2588 1. .1444 1. .1859 .4032
65 GIVN 14 .3326 1. .1807 1. .2227 .5131
66 GIVN 15 .3646 1. .1994 1. .2467 .5640
67 GIVN 16 .5892 1. .3215 1. .3736 .9628
68 GIVN 17 .4420 1. .2433 1. .2836 .6853
69 GIVN 18 .5083 1. .2900 1. .3356 .7993
70 GIVN 19 .5364 1. .3095 1. .3528 .8459
71 GIVN 20 .2836 1. .4725 1. .6770 3.611 0. .0720 .072 0.
72 SHELL SECTION PROP
73 FORM UNCOUPLED
74 1 15.07 9.66 15.05 0. 0. 0. 4.344+6 4.344+6 4.344+6
75 1.921+6 .310+6 3.104+6 0. 0. .310+6
76 48.8 1125. 7449. 0. 0. 1312.
77 2 .62.76 20.88 40.07 0. 0. 0. 5.499+6 5.499+6 5.499+6
78 .478+6 .088+6 1.437+6 0. 0. .088+6
79 69.2 1727. .11445. 0. 0. 2015.
80 3 86.71 28.49 54.76 0. 0. 0. 4.848+6 4.848+6 4.848+6
81 .346+6 .0606+6 1.053+6 0. 0. .0606+6
82 34.5 976. 6471. 0. 0. 1139.
83 4 .86.21 25.91 50.88 0. 0. 0. 5.967+6 5.967+6 5.967+6
84 .348+6 .0869+6 1.158+6 0. 0. .0869+6
85 55. 1807. .11990. 0. 0. 2108.
86 5 14.96 10.27 15.56 0. 0. 0. 6.822+6 6.822+6 6.822+6
87 2.005+6 .327+6 2.920+6 0. 0. .327+6
88 78.1 2711. 17997. 0. 0. 3163.
89 6 14.94 9.87 15.15 0. 0. 0. 7.641+6 7.641+6 7.641+6
90 2.008+6 .333+6 3.038+6 0. 0. .333+6
91 108.2 3858. 25613. 0. 0. 4501.
92 7 5862. 30.86 23308. 0. 0. 0. 7.641+6 7.641+6 7.641+6
93 .0051+6 .0649+6 .972+6 0. 0. .0649+6
94 35.3 1108. 7353. 0. 0. 1293.
95 W(1):.0288 .0138 .0098 .0106 .0261 .0271 .0135
96 FORM ISOTROPIC
97 8 .050
98 9 .0457
99 10 .1
100 11 .060
101 88
102 1 3125.: 0. 3125. : 0. 0. 3125.
103 0. -1500. 0. 2350.
104 1500. 0. 0. 0. 2350.
105 0. 0. 0. 0. 0. 2350.
106 $
107 $ *****
108 $ ***
109 $ *** N O Z S B O U N D R Y C O N D I T I O N S ***
110 $ ***
111 $ *****
112 $
113 CONSTRAINT_DEFINITION 1

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114 ZERO 1 2 3 4 5 6
115 109,126
116 RMAS
117 CM .00259,.00259
118 REPEAT 18 1 1 73 .533
119 *(ELO)
120 $
121 $ *****
122 $ ***
123 $ *** NO25 ELEMENT DEFINITION ***
124 $ ***
125 $ *****
126 $
127 C21
128 NREF=2
129 NSECT=12 : NOFF=2 : 1 2 2 18 8 ROW 35
130 NSECT=11 : NOFF=1 : 73 74 2 18 8 ROW 39
131 $
132 C*1
133 GROUP 1* NO25 PLATE ELEMENTS
134 NSECT=2 : NNSW=3 : 1 19 20 2 2 18 4
135 NSECT=1 : NNSW=3 : 73 91 92 74 2 18 2
136 GROUP 2* NO25 OVERLAY
137 NSECT=9 : NNSW=0 : 1 19 20 2 2 18 4
138 *(LW)
139 1,18
140 109,126
141 $

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ENDNO25

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```

DATA,1,SSMO.
DATA 9R1 SL74T9 09/29/83 15:10:53 (1)
1. @RUN,/R SSM1,SE080430105,MFOLEYB;N202,30,5000/5000
2. @ASG,A PF.
3. @BRMPT PRINTS/PF.
4. @ASG,A NIFLINBIN196+EALPRS/LDRARR.
5. @ASG,A MEPROC2.
6. @DELETE,C SSM1.
7. @ASG,UP SSM1.,F/5/POS/60
8. @FREE SSM1.
9. @EXTEND,SSM1.0
10. @ASG,A SSM1.
11. @ASG,A SSM3.
12. @ASG,A SSM4.
13. @ASG,A SSM5.
14. @ASG,A SSM6.
15. @USE TYPES.,NIFLINBIN196+EALPRS.
16. @USE EAL020.,MEPROC2.
17. @USE EAL001.,SSM1.
18. @USE EAL003.,SSM3.
19. @USE EAL004.,SSM4.
20. @USE EAL005.,SSM5.
21. @USE EAL006.,SSM6.
22. @ASG,A SSMO.
23. @DATA,DL SSMO.
24. @END
25. @XOT.,U1.
26. @CM 15000
27. @I SYS DATA1.ENDSYS
28. $ SSM HGM+MCC+NOZZLE+HPFTP+WPOTP
29. G=386.,MICROE=150000,SEQ=0
30. @I TAB1
31. START 193
32. ALTREF
33. 2 1 -45. 2 90. 3 0. -15.775 0.0 0.0 $ MCC/HGM
34. 3 1 -45. 2 80. 3 0. -17.942 -18.03123 -18.03123 $ HPFTP/HGM
35. $SYS ALTREF(3)=HPFTP ALTREF(2)
36. $SYS ALTREF(1)=HPFTP ALTREF(1)
37. 4 1 -45. 2 100. 3 0. -20.282 17.5009 17.5009 $ WPOTP/HGM
38. 5 1 -45. 2 90. 3 0. -42.997 0. 0. $ MCC BASIC
39. 6 1 -45. 2 90. 3 0. -35.352 0. 0. $ NOZ BASIC
40. 7 1 -135. 3 10. 2 90. -44.5131 20.522 20.522 $ WPOTP BASIC
41. JLOC:FORMAT=2
42. NREF=2
43. 1,10.9875,0.0,-5.7,10.9875,330.,-5.7,12,1 $ MCC/HGM INTERFACE
44. 37,0.,0.,15.775 $ GIMBAL POINT
45. NREF=3
46. 13,8.85,0.0,-3.74,8.85,330.,-3.74,12,1 $ HPFTP/HGM INTERFACE
47. NREF=4
48. 25,7.4625,0.0,-7.63,7.4625,330.,-7.63,12,1 $ WPOTP/HGM INTERFACE
49. NREF=5
50. 38,13.0,0.0,-2.355,13.0,340.,-2.355,18,1 $ MCC/NOZ5 IN MCC CORDSYS
51. NREF=6
52. 56,21.583,0.,-27.125,21.583,340.,-27.125,18,1 $ NOZ5/NOZ4
53. 74,30.709 0. -48.985 30.709 340. -48.985 18 1 $NOZ4/3
54. 92,37.208 0. -70.585 37.208 340. -70.585 18 1 $NOZ3/2
55. 110,42.033 0. -93.585 42.033 340. -93.585 18 1 $NOZ2/1
    
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56.	128.95,957	0.	-119.578	45.957	340.	-119.578	18.1	SNQZ1 BOTTOM
57.	NREF=3							
58.	146	6.2	0.0	.35	6.2	270.0	.35	J=158,164,170,176 ON HPFTP
59.	150	8.6	0.0	-15.35	8.6	270.0	-15.35	J=698,704,710,716 ON HPFTP
60.	154	0.0	0.0	-31.80				J=1454 ON HPFTP
61.	155	0.0	0.0	-29.50				J=1456 ON HPFTP
62.	156	0.0	0.0	-29.90				J=1457 ON HPFTP
63.	157	0.0	0.0	-16.20				J=1483 ON HPFTP
64.	158	0.0	0.0	-7.65				J=1533 ON HPFTP
65.	159	0.85	0.	-.9	0.85	330.	-.9	12 5 1618 THROUGH 1629 ON HPFTP
66.	\$							
67.	*****							
68.	*****							
69.	***** HIGH PRESSURE OXYGEN TURBOPUMP *****							
70.	*****							
71.	*****							
72.	\$							
73.	FORMAT=1							
74.	NREF=1							
75.	\$							
76.	171	-20.564	21.716	15.352	\$	511	IN HPOTP	, 2697 IN PLOT SYS
77.	172	-21.394	17.314	16.538	\$	274	IN HPOTP	, 2460 IN PLOT SYS
78.	173	-40.618	23.218	16.854	\$	318	IN HPOTP	, 2504 IN PLOT SYS
79.	174	-39.843	23.535	22.759	\$	362	IN HPOTP	, 2548 IN PLOT SYS
80.	175	-40.618	16.854	23.218	\$	409	IN HPOTP	, 2590 IN PLOT SYS
81.	176	-27.789	22.032	21.256	\$	467	IN HPOTP	, 2653 IN PLOT SYS
82.	177	-29.340	15.811	15.035	\$	555	IN HPOTP	, 2741 IN PLOT SYS
83.	178	-20.564	15.352	21.716	\$	597	IN HPOTP	, 2783 IN PLOT SYS
84.	179	-24.940	15.607	20.557	\$	730	IN HPOTP	, 2916 IN PLOT SYS
85.	180	-25.548	15.644	15.644	\$	734	IN HPOTP	, 2920 IN PLOT SYS
86.	181	-24.940	20.557	15.607	\$	738	IN HPOTP	, 2924 IN PLOT SYS
87.	182	-24.332	20.519	20.519	\$	742	IN HPOTP	, 2928 IN PLOT SYS
88.	183	-19.698	13.764	19.845	\$	854	IN HPOTP	, 3040 IN PLOT SYS
89.	184	-15.445	13.810	13.810	\$	858	IN HPOTP	, 3044 IN PLOT SYS
90.	185	-14.698	19.845	13.764	\$	862	IN HPOTP	, 3048 IN PLOT SYS
91.	186	-13.951	19.799	19.799	\$	866	IN HPOTP	, 3052 IN PLOT SYS
92.	187	-19.524	19.578	20.235	\$	918	IN HPOTP	, 3104 IN PLOT SYS
93.	188	-20.218	14.621	14.621	\$	922	IN HPOTP	, 3108 IN PLOT SYS
94.	189	-19.524	20.235	14.578	\$	926	IN HPOTP	, 3112 IN PLOT SYS
95.	190	-18.829	20.192	20.192	\$	930	IN HPOTP	, 3116 IN PLOT SYS
96.	191	-23.906	17.953	17.953	\$	1033	IN HPOTP	, 3219 IN PLOT SYS
97.	192	-29.175	18.610	18.610	\$	1034	IN HPOTP	, 3220 IN PLOT SYS
98.	193	-39.417	19.887	19.887	\$	1068	IN HPOTP	, 3254 IN PLOT SYS
99.	\$							
100.	JREF							
101.	NREF=-2:1,12:37 \$							
102.	NREF=-3:13,24 \$							
103.	NREF=-4:25,36 \$							
104.	NREF=-5:38,55 \$							
105.	NREF=-6:56,145 \$							
106.	NREF=-3:146,153:159,170 \$ FOR HPFTP							
107.	NREF=3:154,158 \$ FOR HPFTP							
108.	NREF=-7:171,190 \$ FOR HPOTP CASE							
109.	NREF=7:191,193 \$ FOR HPOTP SHAFT							
110.	\$							
111.	JSEQ							
112.	37,13/36,1/12,146/193,30/145							

ORIGINAL PAGE IS
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113. 0
114. CON=1
115. * ENDSYS
116. *110 SJC NCM 11
117. 1:2:3:4:5:6:7:137
118. 13:14:15:16:17:18:19
119. 25:26:27:28:29:30:31
120. 12:11:10:9:8
121. 24:23:22:21:20
122. 36:35:34:33:32
123. *110 SJC HPOTR 7,
124. 171:172:173:174:175:176:177:178:179:180:181:182
125. 34:35:36:25:26:27:28:29:30:31:32:33
126. 183:184:185:186:187:188:189:190:191:192:193
127. *110 SJC MCC 51
128. 1:2:3:4:5:6:7:8:9:10:11:12
129. 36:39:40:41:42:43:44:45:46:47:48:49:50:51:52:53:54:55
130. *110 SJC HPFTP 11
131. 13:14:15:16:17:18:19:20:21:22:23:24 & 350 THROUGH 361 ON HPFTP, MGM INTERFACE
132. 154:155:156:157:158 & 1454,1456,1457,1483,1533 ON HPFTP
133. 5 THE ABOVE ARE AFT END, AFT BEARING, INTERMEDIATE BEARING, INTERMEDIATE ROTOR, ON ROT
134. 159:160:161:162:163:164:165:166:167:168:169:170 & 1618 THROUGH 1629 ON HPFTP FORWA
135. 146:147:148:149 & 158,164,170,176 ON HPFTP, FORWARD CASE
136. 150:151:152:153 & 698,704,710,716 ON HPFTP, INTERMEDIATE CASE
137. *110 SJC NO25 61
138. 56:57:58:59:60:61:62:63:64:65:66:67:68:69:70:71:72:73
139. 38:39:40:41:42:43:44:45:46:47:48:49:50:51:52:53:54:55
140. *110 SJC NO24 61
141. 79:75:76:77:78:79:80:81:82:83:84:85:86:87:88:89:90:91
142. 56:57:58:59:60:61:62:63:64:65:66:67:68:69:70:71:72:73
143. *110 SJC NO23 61
144. 92:93:94:95:96:97:98:99:100:101:102:103:104:105:106:107:108:109
145. 74:75:76:77:78:79:80:81:82:83:84:85:86:87:88:89:90:91
146. *110 SJC NO22 61
147. 110:111:112:113:114:115:116:117:118:119:120:121:122:123:124:125:126:127
148. 92:93:94:95:96:97:98:99:100:101:102:103:104:105:106:107:108:109
149. *110 SJC NO21 61
150. 128:129: 130:131:132:133:134:135:136:137:138:139:140:141:142:143:144:145
151. 110:111:112:113:114:115:116:117:118:119:120:121:122:123:124:125:126:127
152. *CALL ME SYS
153. @BRKPT PRINTS
154. @FIN
END DATA, ERRORS: NONE, TIME: 1.053 SEC, IMAGE COUNT: 159

```

@BRKPT PRINTS

Appendix C

TYPICAL EAL-SPAR RESULTS FOR SSME DYNAMIC MODEL

ORIGINAL PAGE IS
OF POOR QUALITY

```

XQT DCU
DCU DATA SPACE= 20000          D/I= 831004 100349
-----
PRIN LIB/SEQ= 1/ 43  VIBR EVAL 2 1
-----
BLOCK 1  VIBR EVAL 2 1
-----
J= 1  I= 1  I=
      .55223+02
J= 2  .67777+02
J= 3  .16412+03
J= 4  .23464+05
J= 5  .24281+05
J= 6  .31360+05
J= 7  .31386+05
J= 8  .51430+05
J= 9  .11055+06
J= 10 .14231+06
J= 11 .14902+06
J= 12 .15589+06
J= 13 .16595+06
J= 14 .16595+06
-----
ABOVE PRODUCED FROM LIB 1
TOC= 45047 831004 95348 0 16 16 16 -1
VIBR EVAL 2 1
STOP DCU .936 3 7
-----
XQT VPRT
VPRT DATA SPACE= 20000          D/I= 831004 100555
-----

```

ORIGINAL PAGE IS
OF POOR QUALITY

VIBRATIONAL MODE
EIGENVALUE = .5522304+02, FREQ = 1.1827 HZ

IO = 2 / 1 / 1

JOINT	1	2	3	4	5	6
1	.3107088-01	.3948968+00	-.4130675-01	-.8791955-02	.4199428-02	.1086891-02
2	.2183973+00	.3280482+00	-.8541053-01	-.5513154-02	.8039997-02	.1087302-02
3	.3471436+00	.1765211+00	-.1038998+00	-.7545325-03	.9714493-02	.1097678-02
4	.3828740+00	-.1907751-01	-.9370424-01	.4200281-02	.8791051-02	.1093203-02
5	.3160543+00	-.2063424+00	-.5768477-01	.8028402-02	.5509663-02	.1089281-02
6	.1645805+00	-.3351201+00	-.5475629-02	.9708823-02	.7747574-03	.1087367-02
7	-.3109795-01	-.3708831+00	.4898976-01	.8796780-02	-.4201883-02	.1109517-02
8	-.2184330+00	-.3040327+00	.9106459-01	.5506227-02	-.8052722-02	.1080285-02
9	-.3471249+00	-.1525026+00	.1025065+00	.7528450-03	-.9709968-02	.1087231-02
10	-.3826597+00	.4308298-01	.9938068-01	-.4199644-02	-.8792615-02	.1093822-02
11	-.3160593+00	.2303482+00	-.6338093-01	-.8028805-02	-.5515688-02	.1099401-02
12	-.1645745+00	.3591234+00	.1115997-01	-.9712909-02	-.7659395-03	.1088632-02
13	.1127220-01	.4319725+00	-.1479505+00	-.8297359-02	.4218495-02	.2569534-02
14	.2148057+00	.3713688+00	-.1801904+00	-.5103679-02	.7842004-02	.2509468-02
15	.3604407+00	.2172671+00	-.1937951+00	-.5300476-03	.9391842-02	.2488826-02
16	.4095055+00	.1096833-01	-.1851350+00	.4208156-02	.8415589-02	.2485225-02
17	.3490151+00	-.1923178+00	-.1565729+00	.7837710-02	.5184441-02	.2478697-02
18	.1949837+00	-.3381225+00	-.1157008+00	.9377347-02	.5724250-03	.2483671-02
19	-.1141212-01	-.3873625+00	-.7347505-01	.8401412-02	-.4192494-02	.2493325-02
20	-.2148030+00	-.3267936+00	-.4124006-01	.5168449-02	-.7831650-02	.2502803-02
21	-.3606122+00	-.1726777+00	-.2764668-01	.5500305-03	-.9365229-02	.2506113-02
22	-.4097916+00	.3366540-01	-.3634771-01	-.4211213-02	-.8379757-02	.2505112-02
23	-.3492528+00	.2369499+00	-.8494353-01	-.7834369-02	-.5143460-02	.2505341-02
24	-.1952350+00	.3827476+00	-.1058027+00	-.9351045-02	-.5230058-03	.2508826-02
25	-.1437434-01	.2938270+00	.8000682-01	-.8921666-02	.4146304-02	-.2047938-03
26	.1352244+00	.2614369+00	.5085248-01	-.5652866-02	.8055651-02	-.2027267-03
27	.2485805+00	.1585879+00	.3779647-01	-.8686305-03	.9800745-02	-.2020999-03
28	.2953257+00	.1284607-01	.4433191-01	.4147251-02	.8918769-02	-.2033780-03
29	.2629420+00	-.1367373+00	.6870526-01	.8051148-02	.5649744-02	-.2037082-03
30	.1601086+00	-.2500810+00	.1043871+00	.9797632-02	.8669331-03	-.2037115-03
31	.1437393-01	-.2968331+00	.1418153+00	.8919440-02	-.4146275-02	-.2020335-03
32	-.1352123+00	-.2644521+00	.1709626+00	.5652451-02	-.8048403-02	-.2016976-03
33	-.2485709+00	-.1616189+00	.1840191+00	.8714141-03	-.9794666-02	-.2011734-03
34	-.2953277+00	-.1588480-01	.1774874+00	-.4142417-02	-.8917136-02	-.2023406-03
35	-.2629560+00	.1337050+00	.1531143+00	-.8047438-02	-.5654252-02	-.2012167-03
36	-.1601225+00	.2470703+00	.1174366+00	-.9797519-02	-.8750479-03	-.2015990-03
37	-.1212497+00	-.5716591+00	.2836837-02	.8792672-02	-.4199099-02	.1083328-02
38	-.6928535-01	.1871517+00	-.5191513-01	-.8804509-02	.4252369-02	.1093025-02
39	-.5966863-02	.2004126+00	-.8779373-01	-.6834716-02	.7040666-02	.1091880-02
40	.5807260-01	.1912131+00	-.1127409+00	-.4040537-02	.8979329-02	.1090718-02
41	.1151094+00	.1606627+00	-.1237473+00	-.7589257-03	.9834430-02	.1089745-02
42	.1582634+00	.1124460+00	-.1194852+00	.2614338-02	.9502899-02	.1089115-02
43	.1023284+00	.5237870-01	-.1004687+00	.5672360-02	.8025091-02	.1088891-02
44	.1844011+00	-.1229439-01	-.6899185-01	.8046240-02	.5579717-02	.1089054-02
45	.1642311+00	-.7377270-01	-.2885141-01	.9449583-02	.2461999-02	.1089537-02
46	.1242517+00	-.1246409+00	.1511094-01	.9713085-02	-.9520589-03	.1090254-02
47	.6928534-01	-.1587635+00	.5759286-01	.8804952-02	-.4251116-02	.1091117-02
48	.5962224-02	-.1720245+00	.9347068-01	.6834729-02	-.7037782-02	.1092032-02
49	-.5807964-01	-.1628246+00	.1184171+00	.4040106-02	-.8976285-02	.1092911-02
50	-.1151155+00	-.1322735+00	.1294233+00	.7582502-03	-.9832781-02	.1093679-02

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51	-.1582656+00	-.8405629-01	.1251615+00	-.2614935-02	-.9503573-02	.1094278-02
52	-.1823258+00	-.2398666-01	.1061458+00	-.5672592-02	-.8027895-02	.1094659-02
53	-.1843946+00	.4068433-01	.7466970-01	-.8046006-02	-.5583460-02	.1094768-02
54	-.1642239+00	.1021621+00	.3452975-01	-.9448996-02	-.2465067-02	.1094545-02
55	-.1242470+00	.1530297+00	-.9432631-02	-.9712417-02	-.9509710-03	.1093953-02
56	-.1415750+00	.4525024-01	-.8819280-01	-.8825527-02	.4218190-02	.1091855-02
57	-.1256210+00	.9236328-01	-.1478501+00	-.6850390-02	.6982509-02	.1091652-02
58	-.9451278-01	.1311773+00	-.1893288+00	-.4048825-02	.8904395-02	.1091160-02
59	-.5200085-01	.1570097+00	-.2076256+00	-.7589907-03	.9752019-02	.1090546-02
60	-.3212246-02	.1667431+00	-.2005351+00	.2622086-02	.9473258-02	.1090132-02
61	.4596345-01	.1592025+00	-.1689152+00	.5686565-02	.7957948-02	.1090159-02
62	.8259329-01	.1352977+00	-.1165816+00	.8064942-02	.5532980-02	.1090641-02
63	.1224116+00	.9791347-01	-.4984765-01	.9470556-02	.2440900-02	.1091283-02
64	.1404604+00	.5156039-01	.2323841-01	.9734066-02	-.9453951-03	.1091703-02
65	.1415660+00	.1832070-02	.9386309-01	.8823791-02	-.4217597-02	.1091645-02
66	.1255921+00	-.4527516-01	.1535102+00	.6849522-02	-.6981188-02	.1091146-02
67	.9448828-01	-.8408047-01	.1949872+00	.4049255-02	-.8902960-02	.1090515-02
68	.5198553-01	-.1099053+00	.2132917+00	.7605343-03	-.9751148-02	.1090136-02
69	.3214406-02	-.1196360+00	.2062147+00	-.2620175-02	-.9423363-02	.1090210-02
70	-.4594598-01	-.1120989+00	.1746075+00	-.5685200-02	-.7958973-02	.1090652-02
71	-.8956818-01	-.8820189-01	.1222800+00	-.8064749-02	-.5534435-02	.1091192-02
72	-.1223904+00	-.5082617-01	.5554268-01	-.2471602-02	-.2442107-02	.1091598-02
73	-.1404526+00	-.4478878-02	-.1755440-01	-.9735863-02	.9449920-03	.1091818-02
74	-.2338339+00	-.1378172+00	-.1267244+00	-.8828854-02	.4219532-02	.1092297-02
75	-.2783433+00	-.4750618-01	-.2116362+00	-.6852452-02	.6984906-02	.1091739-02
76	-.2892631+00	.5257855-01	-.2706675+00	-.4049393-02	.8907209-02	.1090049-02
77	-.2652772+00	.1503586+00	-.2967005+00	-.7584525-03	.9754711-02	.1088970-02
78	-.2092893+00	.2340361+00	-.2866026+00	.2623232-02	.9425563-02	.1088960-02
79	-.1280636+00	.2935186+00	-.2415984+00	.5688077-02	.7959791-02	.1089807-02
80	-.3140319-01	.3216351+00	-.1671183+00	.8066847-02	.5534295-02	.1090859-02
81	.6903393-01	.3149984+00	-.7214419-01	.9472866-02	.2441542-02	.1091727-02
82	.1611372+00	.2744124+00	.3187114-01	.9736521-02	-.9455622-03	.1092208-02
83	.2338019+00	.2047741+00	.1323835+00	.8825958-02	-.4218563-02	.1092246-02
84	.2782692+00	.1144633+00	.2172717+00	.6851080-02	-.6982770-02	.1091723-02
85	.2891819+00	.1442816-01	.2762997+00	.4050174-02	-.8904921-02	.1090718-02
86	.2652279+00	-.8332696-01	.3023511+00	.7610062-03	-.9753348-02	.1089513-02
87	.2092956+00	-.1669963+00	.2922847+00	-.2620109-02	-.9425759-02	.1088796-02
88	.1281216+00	-.2264911+00	.2473101+00	-.5685851-02	-.7961452-02	.1089184-02
89	.3148478-01	-.2546339+00	.1728440+00	-.8066524-02	-.5536647-02	.1090465-02
90	-.6896587-01	-.2480254+00	.7786222-01	-.9474589-02	-.2443503-02	.1091985-02
91	-.1611131+00	-.2074568+00	-.2617920-01	-.9739535-02	.9449071-03	.1093030-02
92	-.3250055+00	-.3214573+00	-.1541636+00	-.8830330-02	.4220101-02	.1094954-02
93	-.4292659+00	-.1884557+00	-.2570580+00	-.6852877-02	.6985867-02	.1091685-02
94	-.4817024+00	-.2782431-01	-.3285815+00	-.4048982-02	.8908075-02	.1088343-02
95	-.4760066+00	.1410462+00	-.3601166+00	-.7578508-03	.9755271-02	.1087090-02
96	-.4128970+00	.2977820+00	-.3478752+00	.2623602-02	.9425908-02	.1088082-02
97	-.3000079+00	.4234837+00	-.2933436+00	.5688219-02	.7960108-02	.1090008-02
98	-.1509575+00	.5029992+00	-.2030991+00	.8067068-02	.5534647-02	.1091491-02
99	.1628690-01	.5267446+00	-.8802066-01	.9473395-02	.2441821-02	.1092082-02
100	.1815634+00	.4918580+00	.3801629-01	.9737288-02	-.9455235-03	.1092272-02

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101	.3249377+00	.4025482+00	.1598100+00	.8826604-02	-.4218811-02	.1092495-02
102	.4291175+00	.2695881+00	.2626690+00	.6851301-02	-.6983165-02	.1092503-02
103	.4815444+00	.1090153+00	.3341897+00	.4050088-02	-.8905274-02	.1091533-02
104	.4759113+00	-.5980712-01	.3657534+00	.7609916-03	-.9753624-02	.1089383-02
105	.4129075+00	-.2165268+00	.3535584+00	-.2619763-02	-.9426132-02	.1087255-02
106	.3001197+00	-.1422517+00	.2990722+00	-.5685278-02	-.7962150-02	.1086948-02
107	.1511703+00	-.4218193+00	.2088519+00	-.6866452-02	-.5537651-02	.1089174-02
108	-.1619829-01	-.4456219+00	.9376283-01	-.9475657-02	-.2444375-02	.1092842-02
109	-.1615158+00	-.4107712+00	-.3231708-01	-.9741368-02	.9446985-03	.1095561-02
110	-.4221260+00	-.5193154+00	-.1745418+00	-.8831608-02	.4221085-02	.1098091-02
111	-.5900218+00	-.3408383+00	-.2907877+00	-.6852871-02	.6987306-02	.1090888-02
112	-.6866445+00	-.1157216+00	-.3715797+00	-.4088245-02	.8909275-02	.1085126-02
113	-.7003966+00	.1288510+00	-.4071932+00	-.7571887-03	.9755999-02	.1084352-02
114	-.6296941+00	.3633774+00	-.3933586+00	.2623742-02	.9426344-02	.1087434-02
115	-.4830973+00	.5595681+00	-.3317565+00	.5688053-02	.7960500-02	.1090920-02
116	-.2782719+00	.6938364+00	-.2298118+00	.8066952-02	.5535064-02	.1092523-02
117	-.3989000-01	.7499380+00	-.9981032-01	.9473620-02	.2442117-02	.1092140-02
118	.2033137+00	.7211226+00	-.4257690-01	.9737887-02	-.9455792-03	.1091807-02
119	.4219935+00	.6108640+00	.1801728+00	.8827060-02	-.4219281-02	.1092402-02
120	.5897585+00	.4324640+00	.2963731+00	.6851282-02	-.6983826-02	.1093534-02
121	.6863798+00	.2074475+00	.3771655+00	.4049762-02	-.8905843-02	.1093151-02
122	.7002393+00	-.3704657-01	.4128176+00	.7607645-03	-.9754013-02	.1090033-02
123	.6297034+00	-.2715449+00	.3990416+00	-.2619422-02	-.9426544-02	.1085298-02
124	.4832793+00	-.4677902+00	.3749294+00	-.5684319-02	-.7962951-02	.1082926-02
125	.2785610+00	-.6021265+00	.2355935+00	-.8065788-02	-.5538902-02	.1086247-02
126	.4014858-01	-.6583349+00	.1055804+00	-.9476455-02	-.2445468-02	.1094659-02
127	-.2032312+00	-.6295852+00	-.3687016-01	-.9743229-02	.9445811-03	.1100370-02
128	-.5319608+00	-.7452118+00	-.1891777+00	-.8838970-02	.4224350-02	.1107922-02
129	-.7718455+00	-.5153008+00	-.3149944+00	-.6857425-02	.6992266-02	.1088798-02
130	-.9183438+00	-.2172667+00	-.4024039+00	-.4048248-02	.8914932-02	.1075858-02
131	-.9539680+00	.1128722+00	-.4408904+00	-.7551087-03	.9761211-02	.1074484-02
132	-.8746116+00	.4352889+00	-.4259062+00	.2623876-02	.9431483-02	.1086287-02
133	-.6899729+00	.7111543+00	-.3592944+00	.5687621-02	.7966601-02	.1097683-02
134	-.4222540+00	.9072716+00	-.2490310+00	.8070127-02	.5541483-02	.1103029-02
135	-.1035834+00	.1000000+01	-.1083486+00	.9481647-02	.2446591-02	.1092923-02
136	.2277939+00	.2781058+00	.4579621-01	.9749944-02	-.9448702-03	.1082904-02
137	.5317424+00	.8441755+00	.1948057+00	.8639082-02	-.4223330-02	.1086407-02
138	.7714311+00	.6143819+00	.3206258+00	.6658378-02	-.6991648-02	.1096988-02
139	.9179515+00	.3164987+00	.4080678+00	.4051542-02	-.8915300-02	.1098418-02
140	.9538013+00	-.1353699-01	.4466182+00	.7589301-03	-.9763180-02	.1093166-02
141	.8747125+00	-.3359464+00	.4316740+00	-.2623406-02	-.9434347-02	.1085521-02
142	.6902567+00	-.6118843+00	.3650370+00	-.5691150-02	-.7968455-02	.1076040-02
143	.4226540+00	-.8081197+00	.2547051+00	-.8074049-02	-.5541161-02	.1076257-02
144	-.1039132+00	-.8009819+00	.1139810+00	-.9482975-02	-.2445042-02	.1095469-02
145	-.2277061+00	-.8791656+00	-.4017039-01	-.9749826-02	.9463333-03	.1112451-02
146	.2663253-01	.4582299+00	-.1367558+00	-.8387167-02	.4228516-02	.2298849-02
147	.4440455+00	-.1431095-01	-.1625647+00	.4226694-02	.8391193-02	.2299650-02
148	-.2847914-01	-.4298170+00	-.8435567-01	.8393958-02	-.4223219-02	.2299206-02
149	-.4440500+00	.4263844-01	-.5849255-01	-.4218656-02	-.8394707-02	.2298461-02
150	-.3783515-01	.3319922+00	-.1467759+00	-.8392232-02	.4213616-02	.2298331-02

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151	.3122010+00	.5758344-01	-.1826762+00	.4210763-02	.8388094-02	.2298360-02
152	.3778954-01	-.2924158+00	-.7432977-01	.8383400-02	-.4210347-02	.2298528-02
153	-.3121771+00	-.1798033-01	-.3647623-01	-.4212145-02	-.8379430-02	.2299270-02
154	-.1070783+00	.1742424+00	-.1105077+00	-.8380701-02	.4219899-02	.2453231-02
155	-.9747399-01	.1938337+00	-.1103771+00	-.8367723-02	.4219476-02	.2464598-02
156	-.7608793-01	.2361992+00	-.1104783+00	-.8381634-02	.4219905-02	.2478708-02
157	-.4126733-01	.3046553+00	-.1107135+00	-.8403742-02	.4199480-02	.2480661-02
158	-.5262907-02	.3766951+00	-.1105308+00	-.8388344-02	.4218771-02	.2452321-02
159	.2319638-01	.4353847+00	-.1141437+00	-.8386973-02	.4217558-02	.2452023-02
160	.2367479+00	.3657561+00	-.1172048+00	-.5156060-02	.7846538-02	.2452141-02
161	.3868763+00	.1986478+00	-.1185165+00	-.5414663-03	.9374003-02	.2451673-02
162	.4334026+00	-.2134191-01	-.1176743+00	.4219600-02	.8390004-02	.2228417-02
163	.3634594+00	-.2350558+00	-.1149093+00	.7846489-02	.5147480-02	.1980313-02
164	.1966458+00	-.3865777+00	-.1109951+00	.9378180-02	.5446705-03	.4732707-03
165	-.2310265-01	-.4334798+00	-.1069480+00	.8395163-02	-.4217055-02	.5769118-06
166	-.2368154+00	-.3637643+00	-.1038607+00	.5161390-02	-.7849479-02	.5315868-04
167	-.3867918+00	-.1945745+00	-.1025813+00	.5169902-03	-.9362460-02	.2299620-02
168	-.4332590+00	.2523636-01	-.1034197+00	-.4221056-02	-.8376149-02	.2299063-02
169	-.3635955+00	.2388313+00	-.1061676+00	-.7848672-02	-.5143106-02	.2298056-02
170	-.1964662+00	.3889791+00	-.1100887+00	-.9373800-02	-.5295856-03	.2297919-02
171	.2882366+00	.1668700-01	.7069904-01	.4123483-02	.8936198-02	-.1808925-03
172	-.4568298-01	.1649930+00	.8758194-01	-.8360463-02	.5178038-02	-.1787752-03
173	.1788469+00	.6721287-01	.7071415-01	.4116034-02	.8935915-02	-.1806482-03
174	.8930601-01	-.1700378+00	.1244183+00	.9374060-02	-.3001810-02	-.1819352-03
175	-.1788933+00	-.6935774-01	.1510739+00	-.4152538-02	-.8937808-02	-.2105703-03
176	.5270505-01	-.2850054+00	.1245679+00	.9363935-02	-.3036243-02	-.2110222-03
177	.1768505-01	.2874931+00	.8754228-01	-.8340493-02	.5207870-02	-.2133482-03
178	-.2883692+00	-.1852154-01	.1510780+00	-.4122590-02	-.8919646-02	-.2113887-03
179	-.3212035+00	-.3046473-02	.1421536+00	-.4124195-02	-.8718140-02	-.1081304-03
180	-.2374936-02	.3205906+00	.9643849-01	-.8915034-02	.4147324-02	-.1080266-03
181	.3212077+00	.1699727-02	.7967696-01	.4142684-02	.8928834-02	-.1110042-03
182	.2376575-02	-.3218274+00	.1253890+00	.8932376-02	-.4135932-02	-.1094126-03
183	-.4140071+00	.3984680-01	.1492791+00	-.4131967-02	-.8922619-02	-.1872712-03
184	.4068061-01	.4131574+00	.9311099-01	-.8915624-02	.4139889-02	-.1866938-03
185	.4140104+00	-.4151774-01	.7254103-01	.4145597-02	.8923345-02	-.1878053-03
186	-.4068380-01	-.4148597+00	.1287096+00	.8930418-02	-.4139321-02	-.1874801-03
187	-.3702819+00	.1958638-01	.1466053+00	-.4137842-02	-.8923492-02	-.1978267-03
188	.2040080-01	.3694986+00	.9435544-01	-.8922197-02	.4138934-02	-.1978833-03
189	.3702792+00	-.2121020-01	.7521790-01	.4140543-02	.8922940-02	-.1978200-03
190	-.2039986-01	-.3710713+00	.1274692+00	.8924067-02	-.4139418-02	-.1977887-03
191	-.3306701+00	-.2232955-02	.1109163+00	-.2716086-02	-.8942508-02	-.3141342-06
192	-.2928325+00	-.2017750-01	.1109172+00	-.3984434-02	-.8938131-02	-.1903706-03
193	-.1897487+00	-.6296299-01	.1109169+00	-.4101419-02	-.8945953-02	-.1545959-03

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VIBRATIONAL MODE

ID= 2 / 1 / 2

EIGENVALUE= .6777709+02, FREQ= 1.3103 HZ

JOINT	1	2	3	4	5	6
1	-.5073197-01	.1572536+00	.8877724-01	-.3894442-02	-.7204943-02	.4751136-03
2	.3207906-01	.1622519+00	.5678371-01	-.6974740-02	-.4289170-02	.4769686-03
3	.1062639+00	.1251883+00	.1215675-01	-.8184975-02	-.2279914-03	.4818746-03
4	.1519797+00	.5599677-01	-.3315116-01	-.7205029-02	.3896054-02	.4785243-03
5	.1570050+00	-.2678883-01	-.6699732-01	-.4296150-02	.6973428-02	.4733542-03
6	.1200039+00	-.1010062+00	-.8033704-01	-.2357443-03	.8198478-02	.4661386-03
7	.5078643-01	-.1467582+00	-.6956400-01	.3896625-02	.7209136-02	.4857703-03
8	-.3206176-01	-.1517711+00	-.3756742-01	.6974874-02	.4288393-02	.4807781-03
9	-.1062762+00	-.1147047+00	.7057740-02	.8185746-02	.2326585-03	.4776564-03
10	-.1520103+00	-.4550191-01	.5237519-01	.7205497-02	-.3892618-02	.4772266-03
11	-.1570233+00	.3729975-01	.8623210-01	.4294561-02	-.6974644-02	.4785764-03
12	-.1199610+00	.1115140+00	.9956044-01	.2303649-03	-.8190137-02	.4742549-03
13	-.1949608-01	.1735105+00	.2676193+00	-.3679024-02	-.7211019-02	.1133100-02
14	.6938709-01	.1587897+00	.2425588+00	-.6805263-02	-.4391707-02	.1105698-02
15	.1345283+00	.1041657+00	.2071082+00	-.8103917-02	-.3813743-03	.1096266-02
16	.1636175+00	.2428194-01	.1707581+00	-.7219591-02	.3729192-02	.1094332-02
17	-.1489389+00	-.5948482-01	.1432312+00	-.4392521-02	.6841028-02	.1091980-02
18	.9435347-01	-.1246926+00	.1319295+00	-.3839748-03	.8121214-02	.1093763-02
19	.1443704-01	-.1538679+00	.1398802+00	.3726060-02	.7224994-02	.1097425-02
20	-.6938385-01	-.1391631+00	.1649283+00	.6835197-02	.4394147-02	.1101933-02
21	-.1346002+00	-.8452946-01	.2003686+00	.8112906-02	.3887216-03	.1103854-02
22	-.1637417+00	-.4621276-02	.2366986+00	.7219079-02	-.3716845-02	.1103522-02
23	-.1490907+00	.7914797-01	.2692159+00	.4395154-02	-.6824637-02	.1103447-02
24	-.9445091-01	.1443498+00	.2755297+00	.3965402-03	-.8101710-02	.1104881-02
25	.2446292-01	.1127110+00	-.1225046+00	-.3948069-02	-.7096401-02	-.9210852-04
26	.7788979-01	.8528863-01	-.1443222+00	-.6965630-02	-.4169336-02	-.9282172-04
27	.1104418+00	.3482805-01	-.1744689+00	-.8116927-02	-.1293307-03	-.9239321-04
28	.1134010+00	-.2514713-01	-.2048653+00	-.7093936-02	.3946208-02	-.9239731-04
29	.8597826-01	-.7857003-01	-.2273672+00	-.4170505-02	.6964246-02	-.9233330-04
30	.3551768-01	-.1111287+00	-.2359472+00	-.1296841-03	.8118612-02	-.9217606-04
31	-.7445771-01	-.1140999+00	-.2283050+00	.3946912-02	.7098537-02	-.9557585-04
32	-.7788302-01	-.8668607-01	-.2064935+00	.6966015-02	.4173565-02	-.9386501-04
33	-.1104411+00	-.3623109-01	-.1763479+00	.8118801-02	.1310798-03	-.9383146-04
34	-.1134063+00	.2374639-01	-.1459498+00	.7096087-02	-.3947053-02	-.9517586-04
35	-.8598534-01	.7717647-01	-.1234443+00	.4171453-02	-.6967565-02	-.9495623-04
36	-.3551977-01	.1097412+00	-.1148612+00	.1288290-03	-.8121419-02	-.9512795-04
37	.2054325+00	-.2356187+00	.9619850-02	.3894645-02	.7203607-02	.4735702-03
38	.1214688+00	.6521527-01	.1036162+00	-.3900342-02	-.7319251-02	.4809666-03
39	.1343157+00	.2012426-01	.8058272-01	-.6135435-02	-.5525349-02	.4809264-03
40	.1309631+00	-.2664482-01	.4899051-01	-.7630729-02	-.3065217-02	.4805010-03
41	.1118155+00	-.6945104-01	.1264927-01	-.8205952-02	-.2357815-03	.4797992-03
42	.7918195-01	-.1031313+00	-.2405874-01	-.7791656-02	.2621635-02	.4789404-03
43	.3699761-01	-.1236233+00	-.5670678-01	-.6437625-02	.5162548-02	.4780208-03
44	-.9650019-02	-.1284552+00	-.8135713-01	-.4306960-02	.7080790-02	.4771127-03
45	-.5513960-01	-.1170440+00	-.9503606-01	-.1656529-02	.8145264-02	.4762793-03
46	-.9396967-01	-.9076600-01	-.9609277-01	.1193975-02	.8227724-02	.4755883-03
47	-.1214705+00	-.5279079-01	-.8439894-01	.3900604-02	.7318134-02	.4751141-03
48	-.1343199+00	-.7698828-02	-.6136457-01	.6136707-02	.5525964-02	.4749289-03
49	-.1309678+00	.3907095-01	-.2976808-01	.7632422-02	.3067064-02	.4750893-03
50	-.1118184+00	.8187732-01	.6578793-02	.8207266-02	.2378044-03	.4756041-03

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51	-.7918164-01	.1155572+00	.4329114-01	.7791975-02	-.2620595-02	.4764517-03
52	-.3699420-01	.1360463+00	.7594019-01	.6436811-02	-.5163179-02	.4775331-03
53	.9655017-02	.1408792+00	.1005878+00	.4305396-02	-.7083009-02	.4787010-03
54	.5513891-01	.1294676+00	.1142615+00	.1654940-02	-.8148220-02	.4797731-03
55	.9397130-01	.1031898+00	.1151129+00	-.1194846-02	-.8230238-02	.4805705-03
56	.2456252+00	.2244912-02	.1659565+00	-.3912740-02	-.7244131-02	.4788999-03
57	.2280462+00	-.8127343-01	.1276462+00	-.6153930-02	-.5468886-02	.4784743-03
58	.1829660+00	-.1537437+00	.7510260-01	-.7652811-02	-.3034247-02	.4779561-03
59	.1158213+00	-.2064266+00	.1466287-01	-.8228784-02	-.2338446-03	.4776112-03
60	.3470856-01	-.2329688+00	-.4618457-01	-.7812510-02	.2594663-02	.4776056-03
61	-.5059197-01	-.2301689+00	-.1006787+00	-.6454223-02	.5110266-02	.4779400-03
62	-.1297941+00	-.1083637+00	-.1416726+00	-.4317654-02	.7009685-02	.4784513-03
63	-.1933456+00	-.1413878+00	-.1644227+00	-.1660320-02	.8063879-02	.4788946-03
64	-.2335797+00	-.6611195-01	-.1661842+00	.1197493-02	.8145639-02	.4790224-03
65	-.2456407+00	.1838506-01	-.1467424+00	.3911221-02	.7244943-02	.4787397-03
66	-.2280710+00	.1019111+00	-.1084398+00	.6153477-02	.5470251-02	.4781827-03
67	-.1879883+00	.1743902+00	-.5589477-01	.7653616-02	.3035514-02	.4776000-03
68	-.1158310+00	.2270791+00	.4554634-02	.8230463-02	.2344167-03	.4772130-03
69	-.3470114-01	.2536216+00	.6561551-01	.7814290-02	-.2595058-02	.4771675-03
70	.5061307-01	.2508163+00	.1199207+00	.6455291-02	-.5111460-02	.4774806-03
71	.1298194+00	.2190024+00	.1609182+00	.4317499-02	-.7011136-02	.4780484-03
72	.1933631+00	.1620185+00	.1836625+00	.1658989-02	-.8064915-02	.4786496-03
73	.2335810+00	.8673914-01	.1854115+00	-.1199369-02	-.8145778-02	.4789889-03
74	.4040625+00	-.7897027-01	.2321332+00	-.3914346-02	-.7246305-02	.4795440-03
75	.3476522+00	-.2115160+00	.1776035+00	-.6156123-02	-.5470383-02	.4787346-03
76	.2493204+00	-.3167767+00	.1028173+00	-.7655221-02	-.3034933-02	.4777538-03
77	.1209272+00	-.3820601+00	.1679495-01	-.8231204-02	-.2337063-03	.4769360-03
78	-.2204512-01	-.3994955+00	-.7008987-01	-.7814602-02	.2595523-02	.4766753-03
79	-.1623595+00	-.3669807+00	-.1473615+00	-.6455862-02	.5111698-02	.4770994-03
80	-.2830992+00	-.2884362+00	-.2057041+00	-.4318820-02	.7011546-02	.4781263-03
81	-.3697058+00	-.1733312+00	-.2380837+00	-.1660989-02	.8066058-02	.4792683-03
82	-.4117318+00	-.3554464-01	-.2405941+00	.1197405-02	.8148021-02	.4800097-03
83	-.4041011+00	.1083074+00	-.2129286+00	.3911905-02	.7247348-02	.4798701-03
84	-.3477231+00	.2408740+00	-.1584178+00	.6155142-02	.5472360-02	.4788172-03
85	-.2493906+00	.3461614+00	-.8363181-01	.7656241-02	.3036914-02	.4774519-03
86	-.1209641+00	.4114652+00	.2409371-02	.8233657-02	.2347503-03	.4764688-03
87	.2205863-01	.4289049+00	.8932327-01	.7817402-02	-.2595923-02	.4763660-03
88	.1624172+00	.3963769+00	.1666206+00	.6457703-02	-.5113369-02	.4770550-03
89	.2831749+00	.3178068+00	.2249735+00	.4316818-02	-.7013716-02	.4783037-03
90	.3697634+00	.2026765+00	.2573428+00	.1659153-02	-.8067718-02	.4794694-03
91	.4117440+00	.6487672-01	.2598276+00	-.1200190-02	-.8148413-02	.4799091-03
92	.5606021+00	-.1604222+00	.2792437+00	-.3914828-02	-.7246683-02	.4800882-03
93	.4658231+00	-.3414069+00	.2131668+00	-.6156701-02	-.5470590-02	.4789844-03
94	.3148758+00	-.4790631+00	.1225456+00	-.7655887-02	-.3034957-02	.4775846-03
95	.1259681+00	-.5567941+00	.1831102-01	-.8231689-02	-.2335770-03	.4763265-03
96	-.7811952-01	-.5652302+00	-.8696651-01	-.7814892-02	.2595729-02	.4756918-03
97	-.2727842+00	-.5033571+00	-.1805941+00	-.6456030-02	.5111911-02	.4762449-03
98	-.4345613+00	-.3786351+00	-.2512861+00	-.4318996-02	.7011764-02	.4777709-03
99	-.5439479+00	-.2061002+00	-.2905209+00	-.1661250-02	.8066341-02	.4797391-03
100	-.5877512+00	-.6553492-02	-.2935665+00	.1197106-02	.8148449-02	.4812151-03

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101	-.5606736+00	.1959440+00	-.2600492+00	.3911742-02	.7247942-02	.4811619-03
102	-.4659589+00	.3769679+00	-.1940021+00	.6155352-02	.5473034-02	.4795523-03
103	-.3150142+00	.5146766+00	-.1033828+00	.7656998-02	.3037456-02	.4770668-03
104	-.1260434+00	.5924485+00	.8803774+03	.8234838-02	.2349176-03	.4752552-03
105	.7814398-01	.6008946+00	.1062039+00	.7818565-02	-.2596236-02	.4750601-03
106	.2728974+00	.5389953+00	.1928721+00	.6458369-02	-.5114031-02	.4764912-03
107	.4347089+00	.4142233+00	.2705791+00	.4318913-02	-.7014468-02	.4787797-03
108	.5440598+00	.2416390+00	.3097976+00	.1658936-02	-.8068380-02	.4804511-03
109	.5877765+00	.4206643-01	.3128046+00	-.1200548-02	-.8148938-02	.4807421-03
110	.7272892+00	-.2481643+00	.3142160+00	-.3915088-02	-.7247340-02	.4805456-03
111	.5916514+00	-.4807272+00	.2395667+00	-.6156975-02	-.5471009-02	.4793095-03
112	.3846713+00	-.6528772+00	.1371900+00	-.7656229-02	-.3035084-02	.4777662-03
113	.1313214+00	-.7438578+00	.1943400-01	-.8231935-02	-.2334127-03	.4756581-03
114	-.1376384+00	-.7427074+00	-.9949681-01	-.7814826-02	.2596056-02	.4743181-03
115	-.3903659+00	-.6495723+00	-.2052634+00	-.6455894-02	.5112273-02	.4749738-03
116	-.5958349+00	-.4756824+00	-.2851218+00	-.4319028-02	.7012169-02	.4774012-03
117	-.7294798+00	-.2419980+00	-.3294458+00	-.1661420-02	.8066865-02	.4803167-03
118	-.7751798+00	.2331040-01	-.3328897+00	.1196793-02	.8149150-02	.4826397-03
119	-.7274061+00	.2882551+00	.1187393+00	.3911357-02	.7248853-02	.4831671-03
120	-.5918840+00	.5208836+00	-.2204239+00	.6155209-02	.5474053-02	.4808614-03
121	-.3684174+00	.6931251+00	-.1180515+00	.7657469-02	.3038265-02	.4762892-03
122	-.1314564+00	.7841795+00	-.2569654-03	.8235846-02	.2351199-03	.4729716-03
123	.1378657+00	.7830461+00	.1187393+00	.7819484-02	-.2596781-02	.4731134-03
124	.3905684+00	.6898626+00	.2245628+00	.6458648-02	-.5115065-02	.4761407-03
125	.5960878+00	.5158849+00	.3044383+00	.4318694-02	-.7015593-02	.4798721-03
126	.7296652+00	.2821182+00	.3447387+00	.1658679-02	-.8069389-02	.4816962-03
127	.7752237+00	.1676706-01	.3521325+00	-.1200783-02	-.8149787-02	.4816282-03
128	.9156784+00	-.3483194+00	.3392874+00	-.3918987-02	-.7251159-02	.4804549-03
129	.7338969+00	-.6391772+00	.2584881+00	-.6162847-02	-.5473566-02	.4742924-03
130	.4636365+00	-.8503398+00	.1476475+00	-.7665603-02	-.3035043-02	.4793004-03
131	.1373434+00	-.9563108+00	.2013987-01	-.8241536-02	-.2300441-03	.4831435-03
132	-.2054656+00	-.9442885+00	-.1086057+00	-.7820465-02	.2601976-02	.4723415-03
133	-.5233321+00	-.8157810+00	-.2230408+00	-.6457097-02	.5118786-02	.4682376-03
134	-.7786786+00	-.5863105+00	-.3093989+00	-.4317612-02	.7017784-02	.4717231-03
135	-.9390941+00	-.2835358+00	-.3573063+00	-.1689751-02	.8071268-02	.4814264-03
136	-.9869792+00	.5607688-01	-.3610134+00	.1197116-02	.8152822-02	.4872378-03
137	-.9158618+00	.3915969+00	-.3200758+00	.3910963-02	.7252754-02	.4879351-03
138	-.7342937+00	.6825601+00	-.2393856+00	.6157480-02	.5478158-02	.4896387-03
139	-.4641015+00	.8938803+00	-.1285950+00	.7665190-02	.3041008-02	.4769275-03
140	-.1376797+00	.1000000+01	-.1043846-02	.8247691-02	.2347880-03	.4631712-03
141	.2054737+00	.9880450+00	.1278425+00	.7830625-02	-.2600865-02	.4626830-03
142	.5237339+00	.8594548+00	.2424319+00	.6465513-02	-.5121790-02	.4763543-03
143	.7785823+00	.6298131+00	.3288819+00	.4319809-02	-.7023367-02	.4876870-03
144	.9394550+00	.3268797+00	.3767626+00	.1654885-02	-.8076301-02	.4860198-03
145	.9870767+00	-.1281540-01	.3803583+00	-.1205373-02	-.8154887-02	.4824797-03
146	-.4395359-01	.1851703+00	.2485318+00	-.3718570-02	-.7213917-02	.1012343-02
147	.1789241+00	.5026172-01	.1807395+00	-.7214752-02	.3720317-02	.1012929-02
148	.4402076-01	-.1726555+00	.1590652+00	.3721350-02	.7216134-02	.1012936-02
149	-.1789259+00	-.3778247-01	.2268791+00	.7218094-02	-.3721604-02	.1012632-02
150	.6926194-01	.1291874+00	.2658963+00	-.3720868-02	-.7219917-02	.1012497-02

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151	.1204664+00	-.6056501-01	.1718199+00	-.7221328-02	.3719196-02	.1012442-02
152	-.6928471-01	-.1117574+00	.1417002+00	.3716755-02	.7221527-02	.1012377-02
153	-.1204659+00	.7800504-01	.2357517+00	.7220396-02	-.3714672-02	.1012739-02
154	.1880975+00	.5933491-01	.2038255+00	-.3714608-02	-.7218316-02	.1080117-02
155	.1714474+00	.6800138-01	.2038775+00	-.3709544-02	-.7218414-02	.1085255-02
156	.1345753+00	.8676581-01	.2038261+00	-.3716481-02	-.7218405-02	.1091887-02
157	.7549188-01	.1171069+00	.2037101+00	-.3727350-02	-.7228523-02	.1092952-02
158	.1372097-01	.1490668+00	.2038041+00	-.3718892-02	-.7220002-02	.1000516-02
159	-.3501726-01	.1750828+00	.2099342+00	-.3718443-02	-.7220068-02	.1080173-02
160	.5676014-01	.1692699+00	.2075443+00	-.6831167-02	-.4393499-02	.1080543-02
161	.1333397+00	.1183250+00	.2041287+00	-.8112104-02	-.3886504-03	.1080321-02
162	.1741917+00	-.3611671-01	.2006437+00	-.7229802-02	.3719293-02	.9818528-03
163	.1683640+00	-.5586297-01	.1980022+00	-.4399642-02	.6831644-02	.8725421-03
164	.1174532+00	-.1331965+00	.1969129+00	-.3875091-03	.8114105-02	.2085260-03
165	.3501921-01	-.1742396+00	.1976726+00	.3721840-02	.7220217-02	.2541209-06
166	-.5679424-01	-.1683820+00	.2000766+00	.6832930-02	.4391837-02	.2341637-04
167	-.1333020+00	-.1165175+00	.2034709+00	.8108610-02	.3933528-03	.1013070-02
168	-.1741421+00	-.3410324-01	.2069615+00	.7216953-02	-.3713476-02	.1012936-02
169	-.1683041+00	.5768927-01	.2096058+00	.4391173-02	-.6824328-02	.1012348-02
170	-.1173513+00	.1342652+00	.2106953+00	.3883654-03	-.8105643-02	.1012075-02
171	-.1102889+00	-.3034383-01	-.1931928+00	-.7048120-02	.3955025-02	-.8536772-04
172	.1229031+00	.9687052-01	-.1461001+00	-.4779809-02	-.6514387-02	-.8432078-04
173	.6189591-01	-.1165917+00	-.1931870+00	-.7051048-02	.3949589-02	-.8530571-04
174	-.1078038+00	-.7596567-01	-.2090729+00	.3063977-02	.7480750-02	-.8299680-04
175	-.6185126-01	.1163707+00	-.1575344+00	.7092400-02	-.3956946-02	-.9737911-04
176	-.1628699-01	-.1135773+00	-.2091488+00	.3057480-02	.7497978-02	-.9468708-04
177	.4322442-01	.1054437+00	-.1459472+00	-.4776052-02	-.6559227-02	-.9805748-04
178	-.1103328+00	.2956165-01	-.1576423+00	.7086359-02	-.3945054-02	-.1001119-03
179	-.1248540+00	.3615205-02	-.1615885+00	.7082668-02	-.3944729-02	-.4588081-04
180	.3910100-02	.1245698+00	-.1506257+00	-.3946220-02	-.7077426-02	-.5019485-04
181	.1248536+00	-.4229076-02	-.1892297+00	-.7073088-02	.3952635-02	-.5503867-04
182	-.3905442-02	-.1251402+00	-.2001802+00	.3953674-02	.7082602-02	-.5016836-04
183	-.1659153+00	-.7016516-01	-.1584287+00	.7088109-02	-.3948038-02	-.8622376-04
184	-.6977717-01	.1655213+00	-.1449375+00	-.3945064-02	-.7085430-02	-.8696220-04
185	.1659123+00	.6939186-01	-.1923807+00	-.7081626-02	.3948015-02	-.8638056-04
186	.6977983-01	-.1663060+00	-.2058713+00	.3952008-02	.7085426-02	-.8560255-04
187	-.1465643+00	-.3543173-01	-.1596153+00	.7085706-02	-.3947432-02	-.9128307-04
188	-.3506287-01	.1462058+00	-.1470674+00	-.3947630-02	-.7085261-02	-.9131480-04
189	.1465690+00	.3468565-01	-.1911999+00	-.7084282-02	.3948558-02	-.9128655-04
190	.3506149-01	-.1469315+00	-.2037481+00	.3946294-02	.7084834-02	-.9127456-04
191	-.1290364+00	.3779854-02	-.1754061+00	.4628395-02	-.3955692-02	-.8321687-05
192	-.1078754+00	.3440069-01	-.1754075+00	.6814223-02	-.3953862-02	-.8871486-04
193	-.6670699-01	.1075880+00	-.1754078-00	.7018204-02	-.3956660-02	-.7206734-04

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VIBRATIONAL MODE

EIGENVALUE = .1641156+03, FREQ = 2.0389 HZ ID = 2 / 1 / 3

JOINT	1	2	3	4	5	6
1	-.3264451-02	.3994440+00	.1629479-02	.4608318-02	-.3728899-03	-.3107717-03
2	.1736086+00	.3038007+00	.2639116-01	.3802336-02	-.2636841-02	-.3115058-03
3	.3039725+00	.1758284+00	.4340037-01	.1975399-02	-.4184565-02	-.3121090-03
4	.3528551+00	-.1712037-03	.4809867-01	-.3764476-03	-.4606182-02	-.3051107-03
5	.3071442+00	-.1770258+00	.3923153-01	-.2622344-02	-.3785121-02	-.3012321-03
6	.1791041+00	-.3073197+00	.1923603-01	-.4165172-02	-.1988102-02	-.2962956-03
7	.3272182-02	-.3561950+00	-.6576440-02	-.4612665-02	.3736141-03	-.3461885-03
8	-.1734397+00	-.3105890+00	-.3128906-01	-.3791317-02	.2635352-02	-.2943593-03
9	-.3038799+00	-.1826869+00	-.4828172-01	-.1975729-02	.4158456-02	-.3006735-03
10	-.3528593+00	-.6705793-02	-.5304889-01	.3699284-03	.4606665-02	-.3052873-03
11	-.3072413+00	.1701709+00	-.4425019-01	.2621742-02	.3811611-02	-.3124750-03
12	-.1792653+00	.3005350+00	-.2423930-01	.4175353-02	.1990414-02	-.3120402-03
13	-.1824421-02	.3364920+00	.1029668-01	.4470169-02	-.3836386-03	-.1090261-02
14	.1712345+00	.2911141+00	.3043782-01	.3696488-02	-.2555962-02	-.1061969-02
15	.2986402+00	.1651837+00	.4377077-01	.1927928-02	-.4088051-02	-.1053108-02
16	.3460125+00	-.7561116-02	.4743069-01	-.3718407-03	-.4512792-02	-.1051412-02
17	.3005719+00	-.1802906+00	.4046901-01	-.2579847-02	-.3716927-02	-.1042800-02
18	.1745738+00	-.3040793+00	.2472297-01	-.4091824-02	-.1928718-02	-.1043664-02
19	-.1885580-02	-.3553503+00	.4424334-02	-.4504254-02	.3756486-03	-.1049602-02
20	-.1712844+00	-.3099695+00	-.1498713-01	-.3707093-02	.2577180-02	-.1056549-02
21	-.2485944+00	-.1640735+00	-.2830888-01	-.1914092-02	.4085208-02	-.1059766-02
22	-.3459263+00	-.1135803-01	-.3197702-01	.3911908-03	.4495118-02	-.1059701-02
23	-.3005106+00	.1618914+00	-.2502111-01	.2589469-02	.3698340-02	-.1060757-02
24	-.1745063+00	.2897140+00	-.9282191-02	.4092078-02	.1907031-02	-.1064320-02
25	.3056509-02	.3331508+00	-.9366104-02	.4503683-02	-.3609469-03	.2615137-03
26	.1765194+00	.3402123+00	.7074793-02	.3719043-02	-.2567758-02	.2604544-03
27	.3393267+00	.1966357+00	.1837288-01	.1937610-02	-.4082330-02	.2601130-03
28	.3912127+00	.8883008-03	.2152720-01	-.3626207-03	-.4502776-02	.2614000-03
29	.3382780+00	-.1445717+00	.1568708-01	-.2564332-02	-.3717535-02	.2593360-03
30	.1946990+00	-.3373887+00	.2415815-02	-.4079140-02	-.1937275-02	.2592460-03
31	-.1051092-02	-.3892777+00	-.1472897-01	-.4501744-02	.3597667-03	.2600149-03
32	-.1965199+00	-.3363391+00	-.3115576-01	-.3714337-02	.2560881-02	.2595347-03
33	-.3393317+00	-.1927584+00	-.4246711-01	-.1940714-02	.4077546-02	.2592738-03
34	-.3912176+00	.2992246-02	-.4563023-01	.3578095-03	.4501977-02	.2589100-03
35	-.3382752+00	.1984598+00	-.3979502-01	.2561005-02	.3721925-02	.2591052-03
36	-.1946913+00	.3412672+00	-.2652336-01	.4079232-02	.1944175-02	.2590653-03
37	.1127384-01	-.2540144+00	-.2475078-02	-.4604006-02	.3729240-03	-.3090649-03
38	.5680863-02	.4592711+00	.2435400-02	.4668905-02	-.3938268-03	-.3167438-03
39	.1638490+00	.4293905+00	.2303727-01	.4260768-02	-.2097388-02	-.3130332-03
40	.3072503+00	.3472340+00	.4056549-01	.3339954-02	-.3546268-02	-.3088563-03
41	.4041902+00	.2227108+00	.5290811-01	.2016580-02	-.4564850-02	-.3049843-03
42	.4573750+00	.7084009-01	.5657608-01	.4491570-03	-.5030634-02	-.3020308-03
43	.4553933+00	-.2006040-01	.5688288-01	-.1174048-02	-.4888829-02	-.3003015-03
44	.3984876+00	-.2405838+00	.4802862-01	-.2657330-02	-.4158372-02	-.2997904-03
45	.2935228+00	-.3625746+00	.3307776-01	-.3821008-02	-.2928840-02	-.3003136-03
46	.1531585+00	-.4413189+00	.1383247-01	-.4523472-02	-.1348696-02	-.3016475-03
47	-.5677378-02	-.4673188+00	-.7384104-02	-.4678941-02	.3925516-03	-.3036091-03
48	-.1638293+00	-.4374381+00	-.2800919-01	-.4268275-02	.2086829-02	-.3060738-03
49	-.3022236+00	-.3552809+00	-.4555092-01	-.3341430-02	.3531526-02	-.3089298-03
50	-.4041691+00	-.2307567+00	-.5789111-01	-.2011291-02	.4553005-02	-.3120284-03

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51	-.4573694+00	-.7888506-01	-.6354150-01	-.4395474-03	.5077381-02	-.3151226-03
52	-.4554059+00	-.8201577-01	-.6182384-01	.1183461-02	.4895858-02	-.3178387-03
53	-.3985126+00	.2325388+00	-.5294980-01	.2662778-02	.4172515-02	-.3197143-03
54	-.2935486+00	.3585287+00	-.3799333-01	.3818986-02	.2943656-02	-.3202972-03
55	-.1531730+00	.4332720+00	-.1875895-01	.4515544-02	.1357469-02	-.3192983-03
56	.1223789-01	.5385551+00	.5720770-02	.4752157-02	-.3803756-03	-.3094044-03
57	.1979826+00	.5014871+00	.4030391-01	.4335104-02	-.1983351-02	-.3091724-03
58	.3598458+00	.4031296+00	.6972419-01	.3305513-02	-.3346876-02	-.3088257-03
59	.4783040+00	.2553466+00	.9043346-01	.2046323-02	-.4306520-02	-.3084120-03
60	.5390704+00	.7596364-01	.9991564-01	.4506196-03	-.4746670-02	-.3081727-03
61	.5348183+00	-.1133831+00	.9708701-01	-.1199136-02	-.4614413-02	-.3082826-03
62	.4660634+00	-.2694566+00	.8223276-01	-.2704156-02	-.3925819-02	-.3085868-03
63	.3410986+00	-.4321732+00	.5716438-01	-.3883126-02	-.2763944-02	-.3088013-03
64	.1749947+00	-.5231685+00	.2490410-01	-.4593991-02	-.1268820-02	-.3086765-03
65	-.1221775-01	-.5518674+00	-.1065920-01	-.4751753-02	.3793773-03	-.3081283-03
66	-.1979613+00	-.5148071+00	-.4523793-01	-.4335255-02	.1981991-02	-.3074374-03
67	-.3598329+00	-.4164556+00	-.7466209-01	-.3396373-02	.3345785-02	-.3069741-03
68	-.4783061+00	-.2686742+00	-.8536209-01	-.2048020-02	.4306215-02	-.3070676-03
69	-.5390870+00	-.8928731-01	-.1048968+00	-.4521420-03	.4747304-02	-.3077273-03
70	-.5348116+00	.1000670+00	-.1020564+00	.1198535-02	.4615685-02	-.3086123-03
71	-.4660821+00	.2765480+00	-.8720206-01	.2704742-02	.3927124-02	-.3093012-03
72	-.3411043+00	.4188681+00	-.6212566-01	.3884597-02	.2764673-02	-.3096080-03
73	-.1749851+00	.5098622+00	-.2985321-01	.4595664-02	.1268642-02	-.3096031-03
74	.2058263-01	.6400129+00	.9208943-02	.4762726-02	-.3809968-03	-.3109199-03
75	.2414998+00	.5938000+00	.5852136+00	.4344208-02	-.1987430-02	-.3094390-03
76	.4332680+00	.4748204+00	.1004625+00	.3401522-02	-.3353437-02	-.3074060-03
77	.5727581+00	.2974331+00	.1290758+00	.2049125-02	-.4314379-02	-.3060152-03
78	.6431573+00	.8303850-01	.1435099+00	.4504479-03	-.4754770-02	-.3059217-03
79	.6359892+00	-.1425040+00	.1394407+00	-.1201734-02	-.4621907-02	-.3069717-03
80	.5521271+00	-.3519955+00	.1182631+00	-.2709169-02	-.3932023-02	-.3083913-03
81	.4016863+00	-.5201739+00	.8253136-01	-.3889818-02	-.2768306-02	-.3096246-03
82	.2028073+00	-.6267594+00	.3655229-01	-.4601606-02	-.1270983-02	-.3102634-03
83	-.2052991-01	-.6588982+00	-.1413178-01	-.4758764-02	.3795241-03	-.3101032-03
84	-.2413976+00	-.6127153+00	-.6341246-01	-.4342444-02	.1984368-02	-.3090198-03
85	-.4331645+00	-.4937748+00	-.1053508+00	-.3402187-02	.3350238-02	-.3074987-03
86	-.5727029+00	-.3164175+00	-.1348916+00	-.2052017-02	.4312554-02	-.3060979-03
87	-.6431772+00	-.1020295+00	-.1484703+00	-.4548027-03	.4755172-02	-.3056298-03
88	-.6360734+00	.1235330+00	-.1444416+00	.1198959-02	.4624339-02	-.3065114-03
89	-.5522351+00	.3330607+00	-.1232818+00	.2708922-02	.3935346-02	-.3082961-03
90	-.4017689+00	.5012747+00	-.8753719-01	.3892382-02	.2770991-02	-.3101153-03
91	-.2028274+00	.6078795+00	-.4152064-01	.4605849-02	.1271785-02	-.3111759-03
92	.2883870-01	.7410094+00	.1169752-01	.4765975-02	-.3814168-03	-.3133983-03
93	.2845070+00	.6857541+00	.7148070-01	.4346215-02	-.1988660-02	-.3095530-03
94	.9058027+00	.5463978+00	.1223158+00	.3402328-02	-.3354909-02	-.3054871-03
95	.6660504+00	.3397685+00	.1580808+00	.2049743-02	-.4515762-02	-.3036524-03
96	.7452560+00	.9079674-01	.1744783+00	.4502150-03	-.4756012-02	-.3043376-03
97	.7359104+00	-.1704914+00	.1695429+00	-.1202467-02	-.4623058-02	-.3065355-03
98	.6371342+00	-.4125916+00	.1438737+00	-.2710150-02	-.3933060-02	-.3087503-03
99	.4615358+00	-.6063134+00	.1005636+00	-.3891306-02	-.2769103-02	-.3102598-03
100	.2302843+00	-.7282976+00	.4483191-01	-.4603416-02	-.1271393-02	-.3111252-03

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101	-.2873510-01	-.7638354+00	-.1660246-01	-.4760510-02	.3795290-03	-.3112773-03
102	-.2842922+00	-.7086409+00	-.7633324-01	-.4343832-02	.1984676-02	-.3105294-03
103	-.5055781+00	-.5693687+00	-.1271635+00	-.3403941-02	.3350744-02	-.3083435-03
104	-.6659203+00	-.3628069+00	-.1629712+00	-.2054034-02	.4313330-02	-.3053400-03
105	-.7459804+00	-.1138553+00	-.1794394+00	-.4560187-03	.4756427-02	-.3031677-03
106	-.7360781+00	-.1475699+00	-.1745716+00	.1198193-02	.4626185-02	-.3036362-03
107	-.6373678+00	.3896459+00	-.1489361+00	.2709443-02	.3937530-02	-.3069720-03
108	-.8617273+00	.5834483+00	-.1056063+00	.3894709-02	.2772834-02	-.3113531-03
109	-.2303433+00	.7054806+00	-.4981357-01	.4609343-02	.1272586-02	-.3143133-03
110	.3767600-01	.8992503+00	-.1355276-01	.4768070-02	-.3822675-03	-.3028362-03
111	.3303666+00	.7843455+00	.8110787-01	.4346904-02	-.1990477-02	-.3088910-03
112	-.5230901+00	.6232721+00	.1385378+00	.3402182-02	-.3356926-02	-.3072572-03
113	.7654191+00	.3854938+00	.1789369+00	.2048946-02	-.4317645-02	-.3003967-03
114	.8554359+00	.9969900-01	.1974525+00	.4500605-03	-.4757749-02	-.3028236-03
115	.8423276+00	-.1996554+00	.1918808+00	-.1202563-02	-.4624690-02	-.3066516-03
116	.7276752+00	-.4764839+00	.1628808+00	-.2710401-02	-.3934531-02	-.3094590-03
117	.5252826+00	-.6974117+00	.1139485+00	-.3891947-02	-.2770204-02	-.3105349-03
118	.2595445+00	-.8357956+00	.5097772-01	-.4604389-02	-.1271889-02	-.3115261-03
119	-.378248-01	-.8749497+00	-.1843657-01	-.4761282-02	.3796853-03	-.3125151-03
120	-.3299778+00	-.8101572+00	-.8592083-01	-.4344212-02	.1985286-02	-.3125141-03
121	-.5826900+00	-.6492340+00	-.1433470+00	-.3404260-02	.3351639-02	-.3097272-03
122	-.7651835+00	-.4115752+00	-.1838042+00	-.2054589-02	.4314558-02	-.3047902-03
123	-.8554640+00	-.1258199+00	-.2024191+00	-.4569947-03	.4758175-02	-.2999224-03
124	-.8926148+00	.1735931+00	-.1969357+00	.1192086-02	.4628588-02	-.2989618-03
125	-.7281030+00	.4505565+00	-.1679879+00	.2709131-02	.3940320-02	-.3042606-03
126	-.5256440+00	.6716364+00	-.1190341+00	.3896149-02	.2775126-02	-.3140368-03
127	-.2596571+00	.8101132+00	-.5597190-01	.4612068-02	.1273395-02	-.3199704-03
128	.4772751-01	.9723056+00	.1500342-01	.4783802-02	-.3852544-03	-.3275597-03
129	.3823242+00	.8964571+00	.8829343-01	.4359824-02	-.1997744-02	-.3040044-03
130	.6204822+00	.7108147+00	.1505734+00	.3410466-02	-.3367696-02	-.2936403-03
131	.8777267+00	.4378269+00	.1943537+00	.2052858-02	-.4330391-02	-.2947115-03
132	.9791612+00	.1104147+00	.2144220+00	.4512960-03	-.4771581-02	-.3003946-03
133	.9626106+00	-.2319624+00	.2083838+00	-.1205175-02	-.4638837-02	-.3093139-03
134	.8300987+00	-.5480575+00	.1769319+00	-.2719335-02	-.3947073-02	-.3164840-03
135	.5974992+00	-.7997830+00	.1238231+00	-.3906632-02	-.2778466-02	-.3170286-03
136	.2927056+00	-.9567534+00	.5545948-01	-.4622691-02	-.1274151-02	-.3054061-03
137	-.4741584-01	-.1000000+01	-.1990742-01	-.4778827-02	.3839260-03	-.3091199-03
138	-.3816903+00	-.2243269+00	-.2312921-01	-.4356985-02	.1994802-02	-.3203201-03
139	-.6698344+00	-.7389216+00	-.1553990+00	-.3412418-02	.3364519-02	-.3156057-03
140	-.8273566+00	-.4661212+00	-.1924844+00	-.2058947-02	.4328963-02	-.3036026-03
141	-.9792272+00	-.1387644+00	-.2194227+00	-.4574158-03	.4772793-02	-.2949923-03
142	-.9630859+00	.2037119+00	-.2134579+00	.1202636-02	.4641720-02	-.2912155-03
143	-.8307811+00	.5200204+00	-.1820160+00	.2720517-02	.3949929-02	-.2970294-03
144	-.5980675+00	.7719769+00	-.1288679+00	.3909826-02	.2780303-02	-.3168073-03
145	-.2928782+00	.9290849+00	-.6044219-01	.4627210-02	.1274584-02	-.3333084-03
146	-.3420541-02	.3214582+00	.9947475-02	.4530082-02	-.3815073-03	-.9753234-03
147	.3274750+00	-.2656082-02	.3568385-01	-.3810589-03	-.4532511-02	-.9758106-03
148	.3355041-02	-.3335110+00	.5232092-02	-.4534417-02	.3790590-03	-.9754830-03
149	-.3274730+00	-.9357700-02	-.2053332-01	.3761573-03	.4534727-02	-.9746104-03
150	.2588886-02	.3903101+00	.1080137-01	.4534020-02	-.3742918-03	-.9738092-03

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151	.3986890+00	-.1096414-01	.4655563-01	-.3733209-03	-.4531796-02	-.9741698-03
152	-.2582415-02	-.4070821+00	.4368634-02	-.4527905-02	.3736583-03	-.9748799-03
153	-.3986941+00	-.5804215-02	-.3135774-01	.3751369-03	.4527784-02	-.9745955-03
154	.8727184-02	.4725277+00	.7455010-02	.4503792-02	-.3791423-03	-.1030211-02
155	.7948385-02	.4621985+00	.7429809-02	.4505039-02	-.3798169-03	-.1039069-02
156	.6106893-02	.4393753+00	.7476679-02	.4511489-02	-.3799467-03	-.1050479-02
157	.2944275-02	.4024495+00	.7560064-02	.4516178-02	-.3737995-03	-.1053806-02
158	-.3544110-03	.3637666+00	.7580034-02	.4527127-02	-.3767699-03	-.1035389-02
159	-.2896428-02	.3323112+00	.7899150-02	.4528167-02	-.3765787-03	-.1035134-02
160	.1640999+00	.2891261+00	.9779793-02	.3732650-02	-.2589234-02	-.1035177-02
161	.2870973+00	.1682126+00	.1109645-01	.1938604-02	-.4110439-02	-.1035309-02
162	.3330398+00	.1784266-02	.1144000-01	-.3663248-03	-.4535933-02	-.9405186-03
163	.2896235+00	-.1645906+00	.1076616-01	-.2598457-02	-.3748355-02	-.8357495-03
164	.1691124+00	-.2873324+00	.9226122-02	-.4107350-02	-.1937640-02	-.1997547-03
165	.2873094-02	-.3332666+00	.7259967-02	-.4525041-02	.3755646-03	-.2443904-06
166	-.1641390+00	-.2900628+00	.5379166-02	-.3731956-02	.2588347-02	-.2251470-04
167	-.2871868+00	-.1699604+00	.4089297-02	-.1937789-02	.4108506-02	-.9743392-03
168	-.3332672+00	-.3743058-02	.3734659-02	.3771511-03	.4526343-02	-.9738681-03
169	-.2900655+00	.1632455+00	.4411344-02	.2591310-02	.3730530-02	-.9734075-03
170	-.1691586+00	.2862598+00	.5938171-02	.4111445-02	.1934208-02	-.9738611-03
171	.3944461+00	-.3484607-03	.8088966-02	-.3529579-03	-.4472547-02	.2428622-03
172	.60422681-01	.4462460+00	-.8079367-02	.4410835-02	-.9967533-03	.2488461-03
173	.4491773+00	-.4529832-02	.8085957-02	-.3620925-03	-.4471731-02	.2434012-03
174	.4913067-01	-.4454299+00	-.1121550-01	-.4478011-02	-.1879340-03	.2445404-03
175	-.4500584+00	.7089791-02	-.3233638-01	.3661269-03	.4512743-02	.2717709-03
176	.4671281-01	-.3907395+00	-.1133525-01	-.4514674-02	-.1683093-03	.2696409-03
177	.4945570-01	.3927244+00	-.7979543-02	.4399827-02	-.9146003-03	.2714301-03
178	-.3947248+00	.2378923-02	-.3227656-01	.3416413-03	.4499727-02	.2731042-03
179	-.3781739+00	.7442556-03	-.2778431-01	.3462179-03	.4488748-02	.1369731-03
180	.1799394-04	.3789673+00	-.1079586-01	.4482839-02	-.3730929-03	.1401800-03
181	.3781716+00	.7236307-03	.3674867-02	-.3686818-03	-.4501304-02	.1444482-03
182	-.2321534-04	-.3773827+00	-.1330657-01	-.4504102-02	.3559484-03	.1385089-03
183	-.3314004+00	-.2625068-02	-.3138764-01	.3498234-03	.4497197-02	.2400468-03
184	-.3724688-02	.3324901+00	-.1050548-01	.4487615-02	-.3596899-03	.2404304-03
185	.3314023+00	.4822782-02	.7287336-02	-.3683909-03	-.4497885-02	.2397917-03
186	.3723125-02	-.3303122+00	-.1359392-01	-.4506007-02	.3589379-03	.2407307-03
187	-.3534399+00	-.9777211-03	-.3003969-01	.3575782-03	.4497641-02	.2537758-03
188	-.1964331-02	.3544470+00	-.1061328-01	.4496352-02	-.3591920-03	.2537119-03
189	.3534402+00	.2950573-02	.5938888-02	-.3606455-03	-.4496753-02	.2537770-03
190	.1964345-02	-.3524282+00	-.1348615-01	-.4498230-02	.3590029-03	.2538263-03
191	-.3736281+00	.1200313-03	-.1205551-01	.2084279-03	.4461099-02	.5380999-05
192	-.3975086+00	.1555297-02	-.1205558-01	.3392569-03	.4468585-02	.2414749-03
193	-.4437327+00	.5242190-02	-.1205640-01	.3535380-03	.4453322-02	.2411707-03

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VIBRATIONAL MODE

10 = 2 / 1 / 4

EIGENVALUE = .2346438*05, FREQ = 24.3795 HZ

JOINT	1	2	3	4	5	6
1	.7351615+00	-.3565441-02	.2431603+00	-.2997104-04	-.1193236-01	-.8945128-03
2	-.6331446+00	.3629164+00	.2253375+00	-.5980241-02	-.1032192-01	-.1075972-02
3	-.3606514+00	.6291312+00	.1776281+00	-.1034937-01	-.6154667-02	-.1126251-02
4	.8616826-02	.7233931+00	.1118259+00	-.1195169-01	-.2585803-03	-.1055187-02
5	.3740706+00	.6207403+00	.4588537-01	-.1022128-01	.5871760-02	-.6310289-03
6	.6355368+00	.3498238+00	-.1811452-02	-.5598707-02	.9883027-02	.1740071-03
7	-.7277378+00	-.1644982-01	-.1897105-01	.3826478+04	.1149478-01	-.8460038-03
8	.6286130+00	-.3808977+00	-.1617471-02	.5614252-02	.9814932-02	-.2013294-02
9	.3626992+00	-.6469369+00	.4618160-01	.1023239-01	.5876740-02	-.1199599-02
10	-.4220269-02	-.7431352+00	.1123224+00	.1195474-01	-.3191817-03	-.7701503-03
11	-.3715881+00	.6425151+00	.1781183+00	.1032340+01	-.6230293-02	-.6909216-03
12	-.6393737+00	-.3716993+00	.2256373+00	.5933465-02	-.1036666-01	-.7058010-03
13	-.6436996+00	-.2504258-01	.6806154+00	-.6671839-03	-.1176981-01	-.1084660-02
14	-.5661777+00	.2980044+00	.6636816+00	-.6490557-02	-.9579294-02	-.1124247-02
15	-.3393797+00	.5397373+00	.6196493+00	-.1058900-01	-.4208789-03	-.1027678-02
16	-.2013250-01	.6354898+00	.5609732+00	-.1207550-01	.1808064-02	-.8316859-03
17	.3069450+00	.5586990+00	.5037952+00	-.1065614-01	.7015296-02	-.1071085-02
18	.5494538+00	.3294327+00	.4622995+00	-.6241474-02	.1138598-01	-.1040101-02
19	.6441129+00	-.1020543-01	.4478352+00	-.2840939-03	.1296772-01	-.9652187-03
20	.5662783+00	-.3136314+00	.4649982+00	.5565209-02	.1128255-01	-.8971690-03
21	.3344900+00	-.5556180+00	.5088566+00	.9764934+02	.6916292-02	-.8487245-03
22	.1637466-01	-.6508435+00	.5671900+00	.1309429-01	.7697721-03	-.8321464-03
23	-.3087356+00	-.5736204+00	.6247852+00	-.9399865-02	-.5183273-02	-.8243867-03
24	-.5515090+00	-.3443500+00	.6661537+00	.5169142-02	-.9410332-02	-.8294670-03
25	-.4355165+00	.2230790-01	-.2615386+00	.1210005-03	.2491161-01	-.3148316-03
26	-.3643033+00	.2377166+00	-.2848180+00	-.1220297-01	-.2142541-01	-.3702848-03
27	-.1952632+00	.3882586+00	-.3499271+00	-.7118151-01	-.1225075-01	-.3369368-03
28	.2586359-01	.4337125+00	-.4389029+00	-.2442781-01	.4022263-04	-.2000342-03
29	.2399765+00	.3621411+00	-.5281342+00	-.2117635-01	.1211600-01	-.2289191-03
30	.3895944+00	.1928364+00	-.5938313+00	-.1231276-01	.2114151-01	-.2404805-03
31	.4350586+00	-.2896230-01	-.6182439+00	-.1380556-03	.2458767-01	-.5713900-03
32	.3640441+00	-.2438115+00	-.5950816+00	.1207694-01	.2126889-01	-.5510361-03
33	.1955187+00	-.3443198+00	-.5301359+00	.2106384-01	.1242568-01	-.5855705-03
34	-.2532536-01	-.4402973+00	-.4410592+00	.2443352-01	.2595405-03	-.6873030-03
35	-.2396022+00	-.3692260+00	-.3517504+00	.2129442-01	-.1196178-01	-.6479626-03
36	-.3897271+00	-.2000216+00	-.2858950+00	.1242151-01	-.2131860-01	-.6171604-03
37	-.1000000+01	-.7061202-02	-.1121720+00	.3112430-04	.1230149-01	-.8877522-03
38	-.4967258+00	-.8065709-02	.1814000+00	-.2783017-03	.1638961-01	-.1577107-02
39	-.4646893+00	.1685035+00	.1769013+00	-.2783487-02	.1541865-01	-.1702404-02
40	-.3765602+00	.3042605+00	.1645671+00	-.4922960-02	.1247485-01	-.1748590-02
41	-.2429890+00	.4116358+00	.1460030+00	-.6421146-02	.7933494-02	-.1711958-02
42	-.8010058-01	.4676768+00	.1235881+00	-.7101605-02	.2367680-02	-.1599794-02
43	.9246209-01	.4656107+00	.1001222+00	-.6906516-02	-.3532428-02	-.1427863-02
44	.2539016+00	.4056683+00	.7844521-01	-.5892342-02	-.9052120-02	-.1217286-02
45	.3847602+00	.2950850+00	.6104568-01	-.4207213-02	-.1354091-01	-.9919627-03
46	.4692568+00	.1471363+00	.5000318-01	-.2061034-02	-.1648170-01	-.7766752-03
47	.4971925+00	-.2026787-01	.4641168-01	.3024564-03	-.1754575-01	-.5953459-03
48	.4651897+00	-.1869404+00	.5068912-01	.2627698-02	-.1661565-01	-.4689379-03
49	.3771070+00	-.3327608+00	.6235805-01	.4665041-02	-.1379600-01	-.4131279-03
50	.2435723+00	-.4401300+00	.8011805-01	.6186865-02	-.9404443-02	-.4361077-03

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51	.8069361-01	-.4960981+00	.1019714+00	.7006265-02	-.3943760-02	-.5370394-03
52	-.9198947-01	-.4939266+00	.1253799+00	.7000398-02	.1945306-02	-.7054412-03
53	-.2533659+00	-.4338955+00	.1475324+00	-.6136561-02	.7553237-02	-.9217906-03
54	-.3842721+00	-.3232616+00	.1656748+00	-.4492392-02	.1218737-01	-.1159445-02
55	-.4647948+00	-.1753750+00	.1774812+00	-.2259147-02	.1526392-01	-.1387886-02
56	-.4960880+00	-.2166727-01	.1556396+00	-.1228738-03	-.1841090-02	-.1292217-02
57	-.4642273+00	.1471091+00	.1521451+00	-.7921804-03	-.1691668-02	-.1276095-02
58	-.3765825+00	.2948320+00	.1439373+00	-.1355676-02	-.1332540-02	-.1273046-02
59	-.2435744+00	.4037420+00	.1321111+00	-.1739053-02	-.8144146-03	-.1290525-02
60	-.8106181-01	.4606961+00	.1182166+00	-.1897564-02	-.2084667-03	-.1325316-02
61	.9148417-01	.4587568+00	.1040143+00	-.1820612-02	.4063158-03	-.1364661-02
62	.2532604+00	.3980620+00	.9122355-01	-.1528995-02	.9553775-03	-.1391970-02
63	.3846746+00	.2058528+00	.8131320-01	-.1067003-02	.1377731-02	-.1394446-02
64	.4696806+00	.1356367+00	.7535907-01	-.4929378-03	.1630848-02	-.1368807-02
65	.4978707+00	-.3442948-01	.7396953-01	.1290430-03	.1691902-02	-.1322914-02
66	.4657657+00	-.2037481+00	.7726278-01	.7343419-03	.1556956-02	-.1272551-02
67	.3772787+00	-.3518047+00	.8487547-01	.1260900-02	.1239856-02	-.1234888-02
68	.2432242+00	-.4606831+00	.9594111-01	.1651680-02	.7716473-03	-.1221495-02
69	.7795035-01	-.5172552+00	.1093921+00	.1858481-02	.2001514-03	-.1233721-02
70	-.9271494-01	-.5147624+00	.1239488+00	.1846115-02	-.4117618-03	-.1262345-02
71	-.2539210+00	-.4536015+00	.1367632+00	.1610225-02	-.9908838-03	-.1292100-02
72	-.3843219+00	-.3412317+00	.1473683+00	.1163961-02	-.1462165-02	-.1309106-02
73	-.4683662+00	-.1912358+00	.1539633+00	.5602503-03	-.1760182-02	-.1307502-02
74	-.4786724+00	-.3716603-01	.1560628+00	-.1264677-03	-.1372803-02	-.1342536-02
75	-.4486814+00	.1260558+00	.1521190+00	-.6002688-03	-.1246430-02	-.1303988-02
76	-.3649618+00	.2692638+00	.1434794+00	-.9913009-03	-.9674475-03	-.1283970-02
77	-.7373249+00	.3752831+00	.1313333+00	-.1246522-02	-.5767625-03	-.1293306-02
78	-.8082844-01	.4313059+00	.1173168+00	-.1336741-02	-.1298777-03	-.1329007-02
79	.6588607-01	.4304456+00	.1032366+00	-.1259415-02	.3136543-03	-.1375355-02
80	.2427317+00	.3726274+00	.9079850-01	-.1035175-02	.7000298-03	-.1411169-02
81	.3705903+00	.2646807+00	.8139754-01	-.7000907-03	.9878493-03	-.1419375-02
82	.4537099+00	.1195824+00	.7599846-01	-.2971097-03	.1150710-02	-.1395242-02
83	.4817592+00	-.4506811-01	.7509764-01	.1303071-03	.1176541-02	-.1348474-02
84	.4512147+00	-.2093055+00	.7873547-01	.5411149-03	.1065530-02	-.1299002-02
85	.3658527+00	-.3530897+00	.8652424-01	.8968009-03	.8285046-03	-.1268144-02
86	.2362526+00	-.4589967+00	.9767221-01	.1160858-02	.4867585-03	-.1268764-02
87	.7839011-01	-.5142710+00	.1110104+00	.1299985-02	.7290517-04	-.1299275-02
88	-.8845425-01	-.5123763+00	.1250493+00	.1288771-02	-.3689648-03	-.1344338-02
89	-.2441328+00	-.4537213+00	.1381028+00	.1116937-02	-.7858406-03	-.1382596-02
90	-.3700718+00	-.3459273+00	.1484882+00	.7959817-03	-.1122056-02	-.1396293-02
91	-.4514185+00	-.2008874+00	.1547796+00	.3621936-03	-.1328541-02	-.1379801-02
92	-.4577328+00	-.4914072-01	.1605147+00	-.1292228-03	-.1348353-02	-.1357427-02
93	-.4301008+00	.1071936+00	.1559579+00	-.5650365-03	-.1220011-02	-.1298096-02
94	-.3512507+00	.2447902+00	.1462018+00	-.9206932-03	-.9438964-03	-.1265805-02
95	-.2302063+00	.3472134+00	.1326288+00	-.1146657-02	-.5615974-03	-.1275875-02
96	-.8100086-01	.4020695+00	.1171137+00	-.1217539-02	-.1287249-03	-.1324093-02
97	.7875807-01	.4025210+00	.1016890+00	-.1134363-02	.2961311-03	-.1388666-02
98	.2298302+00	.3482122+00	.8822490-01	-.9201538-03	.6614301-03	-.1439748-02
99	.3536488+00	.2454524+00	.7819818-01	-.6111081-03	.9290719-03	-.1453515-02
100	.4347201+00	.1065669+00	.7258132-01	-.2474269-03	.1076259-02	-.1423096-02

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101	.4627474+00	-.5155648-01	.7183656-01	.1329241-03	.1093877-02	-.1361772-02
102	.4341168+00	-.2095660+00	.7595655-01	.4962165-03	.9835548-03	-.1297486-02
103	.3524468+00	-.3481105+00	.8451692-01	.8114552-03	.7556269-03	-.1259773-02
104	.2280785+00	-.4503106+00	.9669345-01	.1048034-02	.4291838-03	-.1266153-02
105	.7659966-01	-.5038769+00	.1112647+00	.1175727-02	.3370411-04	-.1313146-02
106	-.8331774-01	-.5025749+00	.1266410+00	.1169033-02	-.3897743-03	-.1378136-02
107	-.2323575+00	-.4468693+00	.1409756+00	.1015048-02	-.7903793-03	-.1430364-02
108	-.3529037+00	-.3437238+00	.1523832+00	.7216789-03	-.1113436-02	-.1445093-02
109	-.4309963+00	-.2056445+00	.1592434+00	.3219387-03	-.1310180-02	-.1415779-02
110	-.4368018+00	-.5919386-01	.1644582+00	-.1335178-03	-.1353935-02	-.1372109-02
111	-.4116753+00	.9016195-01	.1593446+00	-.5559961-03	-.1226370-02	-.1287663-02
112	-.3379407+00	.2221417+00	.1485616+00	-.8975547-03	-.9566686-03	-.1241202-02
113	-.2237179+00	.3210782+00	.1336773+00	-.1109323-02	-.5874341-03	-.1253898-02
114	-.8198575-01	.3749737+00	.1167958+00	-.1167919-02	-.1747263-03	-.1320296-02
115	.7106598-01	.3769748+00	.1001632+00	-.1077230-02	.2239309-03	-.1410141-02
116	.2167359+00	.3263606+00	.8580008-01	-.8632709-03	.5600964-03	-.1481824-02
117	.3370015+00	.2288523+00	.7524620-01	-.5639359-03	.8005040-03	-.1501868-02
118	.4164618+00	.9610219-01	.6946637-01	-.2186662-03	.9277234-03	-.1460601-02
119	.4447075+00	-.5565971-01	.6887507-01	.1376585-03	.9369223-03	-.1376650-02
120	.9179563+00	-.2076829+00	.7341736-01	.4760464-03	.8315970-03	-.1288475-02
121	.3397004+00	-.3411624+00	.8263743-01	.7705981-03	.6208706-03	-.1237305-02
122	.2201597+00	-.4397271+00	.9569518-01	.9946216-03	.3198776-03	-.1248228-02
123	.7470752-01	-.4915499+00	.1113418+00	.1119320-02	-.4728914-04	-.1316412-02
124	-.7846142-01	-.4907979+00	.1279138+00	.1117759-02	-.4445849-03	-.1408960-02
125	-.2208433+00	-.4379148+00	.1434200+00	.9737485-03	-.8242313-03	-.1481523-02
126	-.3358643+00	-.3398121+00	.1557805+00	.6922187-03	-.1132426-02	-.1499415-02
127	-.4105856+00	-.2083659+00	.1631826+00	.3048752-03	-.1319952-02	-.1455733-02
128	-.4113631+00	-.6684755-01	.1720592+00	-.3086948-04	-.8804144-03	-.1363209-02
129	-.3893527+00	.7406723-01	.1690126+00	-.3483913-03	-.8098472-03	-.1230080-02
130	-.3220834+00	.1993059+00	.1613462+00	-.6060572-03	-.6322710-03	-.1158347-02
131	-.2163759+00	.2941510+00	.1503588+00	-.7645771-03	-.3785534-03	-.1178806-02
132	-.8355603-01	.3470496+00	.1377780+00	-.8075917-03	-.8983695-04	-.1276406-02
133	.6131921-01	.3510771+00	.1254123+00	-.7421602-03	.1918179-03	-.1416473-02
134	.2008863+00	.3049955+00	.1147834+00	-.5947730-03	.4317514-03	-.1527974-02
135	.3174397+00	.2137560+00	.10669180+00	-.3984403-03	.6075932-03	-.1562098-02
136	.3954792+00	.8817955-01	.1023457+00	-.1808556-03	.7089885-03	-.1500294-02
137	.4242117+00	-.5624849-01	.1012390+00	.3973957-04	.7333741-03	-.1370647-02
138	.3995644+00	-.2013990+00	.1035498+00	.2528812-03	.6823448-03	-.1236018-02
139	.3249291+00	-.3290281+00	.1091034+00	.4510748-03	.5592362-03	-.1155252-02
140	.2105347+00	-.4232995+00	.1175912+00	.6222056-03	.3695352-03	-.1169955-02
141	.7175565-01	-.4729207+00	.1284377+00	.7444884-03	.1246586-03	-.1276662-02
142	-.7353864-01	-.4724873+00	.1406564+00	.7883818-03	-.1539237-03	-.1426128-02
143	-.2077162+00	-.4228646+00	.1527940+00	.7293029-03	-.4330083-03	-.1542478-02
144	-.3156674+00	-.3306721+00	.1631295+00	.5585571-03	-.6722069-03	-.1566753-02
145	-.3859493+00	-.2071642+00	.1699640+00	.2908690-03	-.8312803-03	-.1494659-02
146	-.6904885+00	-.1646558-01	.6459428+00	-.1280171-02	-.1037521-01	-.9165842-03
147	-.1281931-01	.6847732+00	.5737519+00	-.1047103-01	.1273335-02	-.9407613-03
148	.6906613+00	.6873260-02	.5163765+00	.1183468-02	.1053113-01	-.9841318-03
149	.1313390-01	-.6969282+00	.5883425+00	.1049907-01	-.1074559-02	-.1025080-02
150	-.5272060+00	-.3837735-01	.6710610+00	-.1033776-02	-.1039412-01	-.1045195-02

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151	-.3014255-01	.5195243+00	.5722699+00	-.1030495-01	.1090170-02	-.1041839-02
152	.5285674+00	.2268627-01	.4930130+00	.1187427-02	.1030149-01	-.1023616-02
153	.3215495-01	-.5362260+00	.5921913+00	.1037289-01	-.1235755-02	-.1004299-02
154	-.3392669+00	-.3125192-01	.5853844+00	-.4455053-03	-.1089343-01	-.1159180-02
155	-.3665168+00	-.3696974-01	.5640627+00	-.7234626-03	-.1084168-01	-.1031751-02
156	-.4217427+00	-.3319811-01	.5840165+00	-.7203887-03	-.1086318-01	-.9778940-03
157	-.5135500+00	-.2429792-01	.5862446+00	-.4259144-03	-.1063249-01	-.9392407-03
158	-.6024041+00	-.2206834-01	.5819996+00	-.1075180-02	-.1082374-01	-.1087107-02
159	-.6762137+00	-.1597180-01	.5906865+00	-.1057605-02	-.1087337-01	-.1090817-02
160	-.5920053+00	.3235415+00	.5883185+00	-.6315217-02	-.8804938-02	-.1095600-02
161	-.3507435+00	.5774141+00	.5852369+00	-.9962559-02	-.4489271-02	-.1078856-02
162	-.1408482-01	.6776476+00	.5812870+00	-.1093620-01	.1101264-02	-.9909239-03
163	.3237443+00	.5887417+00	.5771576+00	-.8746345-02	.6311288-02	-.8797822-03
164	.5896466+00	.3582824+00	.5737103+00	-.4813372-02	.1042259-01	-.2103787-03
165	.6879323+00	.1538859-01	.5729523+00	.1056111-02	.1131235-01	-.2410902-06
166	-.6006560+00	-.3293463+00	.5748127+00	.6458232-02	.9027717-02	-.2222132-04
167	.3511421+00	-.5804501+00	.5779873+00	.9636262-02	.4175338-02	-.9900995-03
168	.1431564-01	-.6783811+00	.5825087+00	.1041625-01	-.1146391-02	-.9714911-03
169	-.3263494+00	-.5947532+00	.5867972+00	.8392533-02	-.6169986-02	-.9432041-03
170	-.5795745+00	-.3519918+00	.5896985+00	.4111254-02	-.9547875-02	-.9194212-03
171	.2679896-01	.4177256+00	-.4392224+00	-.2149597-01	-.7205825-04	-.5077333-03
172	-.1521212+00	.4416420-01	-.3444760+00	-.2430843-02	-.2128411-01	-.4604849-03
173	.2703779-01	.1546254+00	-.4396702+00	-.2150199-01	-.2822160-03	-.5080397-03
174	.1593056+00	-.9581043-02	-.5368692+00	-.2808104-02	.2146514-01	-.3535581-03
175	-.2583141-01	-.1213624+00	-.4363864+00	.2422227-01	.2509592-04	-.4626421-03
176	.4161790+00	.2399799-01	-.5439809+00	-.3020921-02	.2306009-01	-.2422199-03
177	-.4096579+00	.7443494-01	-.3356559+00	-.2632127-02	-.2409286-01	-.4309563-03
178	-.2551164-01	-.4187509+00	-.4407404+00	.2345118-01	.8520378-04	-.6714567-03
179	-.2509149-01	-.5045353+00	-.4406012+00	.2326591-01	.1147321-03	-.4847921-04
180	-.5038059+00	.2383558-01	-.3585953+00	.6931377-04	-.2353181-01	-.2535643-03
181	.2528772-01	.5018122+00	-.4395634+00	-.2317622-01	-.1138471-03	-.4138190-03
182	.5037279+00	-.2652947-01	-.5216381+00	-.2578454-04	.2357394-01	-.2185173-03
183	-.2373739-01	-.7530518+00	-.4406917+00	.2371107-01	.1212031-03	-.3820545-03
184	-.7511743+00	.2183585-01	-.3382661+00	.1139368-03	-.2373078-01	-.4753488-03
185	.2361222-01	.7493045+00	-.4394269+00	-.2366362-01	-.1577486-03	-.4053212-03
186	.7512200+00	-.2551108-01	-.5418902+00	-.8611507-04	.2372815-01	-.3522116-03
187	-.2434972-01	-.6368956+00	-.4406568+00	.2368089-01	.1372646-03	-.4277410-03
188	-.6351936+00	.2267316-01	-.3453685+00	.1436744-03	-.2368096-01	-.4328467-03
189	.2444098-01	.6330075+00	-.4394805+00	-.2366746-01	-.1570326-03	-.4380771-03
190	.6351904+00	-.2611698-01	-.5348148+00	-.1494826-03	.2368564-01	-.4324191-03
191	-.2529487-01	-.1728205+00	-.4402209+00	-.5794081-01	.7895368-04	.8810464-03
192	-.2579356-01	-.3971406+00	-.4401789+00	.6647071-02	.1219184-03	-.4281494-03
193	-.2713449-01	-.1850743+00	-.4402438+00	.1917000-01	.1413742-03	-.3624827-03

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VIBRATIONAL MODE, ID= 2/ 1/ 5
EIGENVALUE = .2428101+05, FREQ= 24.8001 HZ

JOINT	1	2	3	4	5	6
1	.2082992-01	-.7150947-01	-.7622196-02	-.1596533-03	.3320505-03	-.1308200-01
2	.5402833-01	-.9147601-01	-.7924927-02	.6215596-04	.4913298-03	-.1304540-01
3	.7354085-01	-.1256512+00	-.6831016-02	.2490299-03	.4699220-03	-.1324673-01
4	.7417910-01	-.1651365+00	-.4668030-02	.3603903-03	.1819788-03	-.1331842-01
5	.5560619-01	-.1296731+00	-.1783725-02	.2310960-03	-.4216367-03	-.1338655-01
6	.2280545-01	-.2204879+00	-.7762656-03	.3428632-04	.8979834-04	-.1347671-01
7	-.2061605-01	-.2208315+00	-.3402183-03	.2803088-03	-.3214249-03	-.1238413-01
8	-.5861976-01	-.1997848+00	-.8715976-03	-.2794795-03	-.6411038-03	-.1341348-01
9	-.7648430-01	-.1632591+00	-.2541801-02	-.3423847-03	.9216864-04	-.1336967-01
10	-.7430675-01	-.1235804+00	-.3363804-02	-.3108061-03	-.1651525-03	-.1332693-01
11	-.5278576-01	-.8961578-01	-.48895157-02	.3325079-03	-.1222247-03	-.1326162-01
12	-.1795479-01	-.7065935-01	-.6487466-02	-.2707803-03	.9572533-04	-.1305211-01
13	-.1759762-01	-.3894355+00	-.1822148-01	-.5327452-02	.4614022-03	-.1281378-01
14	-.1222205+00	-.3614099+00	-.3494120-01	-.4440616-02	.1886517-02	-.1262315-01
15	-.2306733+00	-.2665336+00	-.4628414-01	-.2445569-02	.3837951-02	-.1252373-01
16	-.2769891+00	-.1302597+00	-.4915985-01	.2788907-03	.4508875-02	-.1251109-01
17	-.2490322+00	.1073062-01	-.4292281-01	.2833795-02	.3556196-02	-.1269248-01
18	-.1532614+00	.1184322+00	-.2988745-01	.4251453-02	.1623006-02	-.1275143-01
19	-.1707436-01	.1646793+00	-.1357625-01	.4475548-02	-.7259737-03	-.1272968-01
20	.1238567+00	.1372346+00	.2205304-02	.3528405-02	-.2853347-02	-.1266986-01
21	.2325080+00	.4327122-01	.1345976-01	.3556844-02	-.4257378-02	-.1262459-01
22	.2796212+00	-.9292103-01	.1746526-01	-.9003909-03	-.4585604-02	-.1261441-01
23	.2515003+00	-.2396267+00	.1228915-01	-.3230467-02	-.3713638-02	-.1258202-01
24	.1556094+00	-.3433067+00	-.9735644-03	-.4772320-02	-.1837087-02	-.1252203-01
25	.1238341-01	.3081245+00	.6599615-02	.2380380-02	.7265666-03	-.6527234-02
26	.1890427+00	.2540399+00	.1603446-01	.2445943-02	-.4653733-03	-.6491753-02
27	.3148945+00	.1189197+00	.2451448-01	.1865386-02	-.1681795-02	-.6478206-02
28	.3563288+00	-.6090416-01	.2961104-01	.7619137-03	-.2446394-02	-.6500796-02
29	.3023015+00	-.2372969+00	.2928839-01	-.5695354-03	-.2505707-02	-.6479395-02
30	.1673717+00	-.3630638+00	.2507829-01	-.1746024-02	-.1874538-02	-.6474295-02
31	-.1230009-01	-.4045292+00	.1672729-01	-.2430655-02	-.6672962-03	-.6475347-02
32	-.1888588+00	-.3506190+00	.6985954-02	-.2437266-02	.6587935-03	-.6453587-02
33	-.3147602+00	-.2157365+00	-.1424230-02	-.1780150-02	.1808021-02	-.6443953-02
34	-.3563639+00	-.3599390-01	-.6279570-02	-.6357538-03	.2464161-02	-.6476777-02
35	-.3025480+00	.1405135+00	-.6364705-02	.6563546-03	.2382037-02	-.6462790-02
36	-.1676113+00	.2665206+00	-.1583432-02	.1741239-02	.1691125-02	-.6469159-02
37	-.2826326-01	-.7744597-01	-.4019687-02	.1620025-03	-.3454161-03	-.1296548-01
38	.1412373-01	-.1387995+00	-.5671444-02	-.4328265-03	-.5043030-03	-.1593577-01
39	.3664630-01	-.1477515+00	-.8791777-02	-.3707544-03	.8064077-03	-.1596903-01
40	.5482845-01	-.1640669+00	-.1141846-01	-.2996505-03	.1988595-02	-.1600832-01
41	.6649707-01	-.1857713+00	-.1330800-01	-.2020852-03	.2884600-02	-.1604411-01
42	.7021345-01	-.2102373+00	-.1421880-01	-.5827928-04	.3389465-02	-.1606973-01
43	.6546897-01	-.2395059+00	-.1394289-01	.1370036-03	.3463271-02	-.1608344-01
44	.5278316-01	-.2556477+00	-.1237529-01	.3619695-03	.3127261-02	-.1608770-01
45	.3366632-01	-.2711170+00	-.9593878-02	.5685431-03	.2447104-02	-.1608655-01
46	.1043852-01	-.2790568+00	-.5904581-02	.6983148-03	.1511982-02	-.1608294-01
47	-.1406487-01	-.2785184+00	-.1817915-02	.7061975-03	.4195184-03	-.1607737-01
48	-.3685046-01	-.2695719+00	.2045120-02	.5797980-03	-.7285367-03	-.1606812-01
49	-.5513911-01	-.2532950+00	.5087736-02	.3460018-03	-.1823789-02	-.1605260-01
50	-.6670832-01	-.2316445+00	.6870191-02	.6253032-04	-.2749445-02	-.1602910-01

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51	-.7016635-01	-.2072224+00	.7198123-02	-.2029614-03	-.3386764-02	-.1599850-01
52	-.6512523-01	-.1829669+00	.6136822-02	-.3976654-03	-.3633785-02	-.1596496-01
53	-.5224292-01	-.1618012+00	.3951828-02	-.5000937-03	-.3430571-02	-.1593536-01
54	-.3312154-01	-.1462825+00	.1010534-02	-.5206208-03	-.2780659-02	-.1591748-01
55	-.1008369-01	-.1382911+00	-.2309207-02	-.4882779-03	-.1759193-02	-.1591717-01
56	.1405976-01	-.3682855+00	-.3739042-02	-.1147622-02	.7205119-04	-.1924193-01
57	.2978194-01	-.3757840+00	-.1214639-01	-.1064742-02	.4582901-03	-.1423568-01
58	.4090188-01	-.3880549+00	-.1948070-01	-.8648615-03	.7973506-03	-.1921400-01
59	.4742579-01	-.4035559+00	-.2491558-01	-.5641710-03	.1052387-02	-.1918704-01
60	.4807030-01	-.4203173+00	-.2778560-01	-.1893791-03	.1191911-02	-.1916774-01
61	.4285624-01	-.4363152+00	-.2767091-01	.2211000-03	.1193907-02	-.1916579-01
62	.1256050-01	-.4495503+00	-.2448194-01	.6185406-03	.1050894-02	-.1918290-01
63	.1855198-01	-.4584885+00	-.1851891-01	.9493494-03	.7742313-03	-.1921181-01
64	.2566702-02	-.4621274+00	-.1047555-01	.1164194-02	.3955364-03	-.1923971-01
65	-.1352334-01	-.4601022+00	-.1367372-02	.1228462-02	-.3631161-04	-.1925426-01
66	-.2790776-01	-.4526948+00	.7612640-02	.1130522-02	-.4626006-03	-.1924929-01
67	-.3899572-01	-.4407827+00	.1528228-01	.8848422-03	-.8249759-03	-.1922736-01
68	-.4554156-01	-.4257409+00	.2065853-01	.5289794-03	-.1075707-02	-.1919855-01
69	-.4675273-01	-.4093042+00	.2310319-01	.1153861-03	-.1185300-02	-.1917591-01
70	-.4238578-01	-.3933952+00	.2239490-01	-.2993374-03	-.1145716-02	-.1916949-01
71	-.3282066-01	-.3799203+00	.1872198-01	-.6643812-03	-.9689372-03	-.1918163-01
72	-.1908326-01	-.3705463+00	.1261165-01	-.9413195-03	-.6821566-03	-.1920588-01
73	-.2782819-02	-.3664797+00	.4826609-02	-.1106129-02	-.3217275-03	-.1922997-01
74	.1314580-01	-.5901087+00	-.3661554-02	-.1232581-02	.5110963-04	-.1983782-01
75	.1882687-01	-.5957098+00	-.1653832-01	-.1148553-02	.4704984-03	-.1983003-01
76	.2205034-01	-.6029119+00	-.2781178-01	-.9358263-03	.8393276-03	-.1980349-01
77	.2227639-01	-.6107415+00	-.3619541-01	-.6135956-03	.1116659-02	-.1977036-01
78	.1948858-01	-.6181221+00	-.4066993-01	-.2125072-03	.1268616-02	-.1974618-01
79	.1419311-01	-.6240658+00	-.4060814-01	.2251297-03	.1272569-02	-.1974280-01
80	.7282508-02	-.6278388+00	-.3589122-01	.6474290-03	.1121859-02	-.1976222-01
81	-.1951760-03	-.6290593+00	-.2698316-01	.9986705-03	.8295608-03	-.1979570-01
82	-.7264295-02	-.6277088+00	-.1492546-01	.1228365-02	.4293491-03	-.1982757-01
83	-.1317478-01	-.6240733+00	-.1226342-02	.1301206-02	-.2782267-04	-.1984303-01
84	-.1744330-01	-.6186507+00	.1234611-01	.1204905-02	-.4811372-03	-.1983497-01
85	-.1980174-01	-.6120623+00	.2403258-01	.9533954-03	-.8699499-03	-.1980750-01
86	-.2011306-01	-.6049958+00	.3235272-01	.5839697-03	-.1143944-02	-.1977343-01
87	-.1832253-01	-.5981713+00	.3631649-01	.1493941-03	-.1270773-02	-.1974842-01
88	-.1447301-01	-.5923163+00	.3553566-01	-.2922989-03	-.1239569-02	-.1974375-01
89	-.8779315-02	-.5881215+00	.3022843-01	-.6872650-03	-.1060166-02	-.1976157-01
90	-.1716395-02	-.5861664+00	.2113575-01	-.9926890-03	-.7590778-03	-.1979320-01
91	.5933848-02	-.5868145+00	.9384276-02	-.1174609-02	-.3740430-03	-.1982333-01
92	.1242177-01	-.7546314+00	-.3758840-02	-.1251246-02	.3711433-04	-.2006638-01
93	.8834726-02	-.7583545+00	-.1960137-01	-.1167105-02	.4643905-03	-.2005642-01
94	.3874841-02	-.7606040+00	-.3349459-01	-.9533936-03	.8406983-03	-.2002068-01
95	-.2110183-02	-.7609407+00	-.4386634-01	-.6287817-03	.1124736-02	-.1997528-01
96	-.8383460-02	-.7591093+00	-.4945734-01	-.2230228-03	.1281874-02	-.1994195-01
97	-.1390915-01	-.7551733+00	-.4947535-01	.2218132-03	.1288405-02	-.1993682-01
98	-.1760560-01	-.7495812+00	-.4374750-01	.6530466-03	.1136696-02	-.1996278-01
99	-.1867806-01	-.7431285+00	-.3282337-01	.1013335-02	.8394227-03	-.2000746-01
100	-.1688434-01	-.7368024+00	-.1797567-01	.1250237-02	.4307073-03	-.2004978-01

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101	-.1261036-01	-.7315641+00	-.1067089-02	.1326779-02	-.3722033-04	-.2006983-01
102	-.6748070-02	-.7281387+00	.1570814-01	.1229748-02	-.5016837-03	-.2005830-01
103	-.4060302-03	-.7268850+00	.3016063-01	.9732423-03	-.9000358-03	-.2002058-01
104	.5412584-02	-.7277765+00	.4045008-01	.5960923-03	-.1100414-02	-.1997490-01
105	.1004778-01	-.7304916+00	.4535574-01	.1532492-03	-.1309892-02	-.1994275-01
106	.1323294-01	-.7345527+00	.4441165-01	-.2957128-03	-.1277933-02	-.1993879-01
107	.1498837-01	-.7394530+00	.3789806-01	-.6967126-03	-.1095029-02	-.1996440-01
108	.1542679-01	-.7447232+00	.2672733-01	-.1007007-02	-.7882469-03	-.2000701-01
109	.1459131-01	-.7499298+00	.1228222-01	-.1197078-02	-.3959665-03	-.2004675-01
110	.1163302-01	-.8896492+00	-.3696106-02	-.1258149-02	.4243879-04	-.2028945-01
111	-.1841887-02	-.8913611+00	-.2168021-01	-.1173938-02	.4792239-03	-.2027788-01
112	-.1556527-01	-.8883282+00	-.3747954-01	-.9617155-03	.8649532-03	-.2022919-01
113	-.2829395-01	-.8806549+00	-.4931601-01	-.6384623-03	.1158344-02	-.2016666-01
114	-.3847070-01	-.8689315+00	-.5576490-01	-.2319030-03	.1323544-02	-.2012057-01
115	-.4442734-01	-.8543240+00	-.5588900-01	.2165463-03	.1334797-02	-.2011326-01
116	-.4479898-01	-.8385543+00	-.498312-01	.6538887-03	.1182501-02	-.2014827-01
117	-.3899867-01	-.8237114+00	-.370515-01	.1021346-02	.8782789-03	-.2020883-01
118	-.2754487-01	-.8119084+00	-.2013290-01	.1264291-02	.4567443-03	-.2026684-01
119	-.1207827-01	-.8048799+00	-.8132788-03	.1344089-02	-.2778478-04	-.2029455-01
120	-.4948101-02	-.8036215+00	.1837496-01	.1246213-02	-.5094073-03	-.2027866-01
121	.2083879-01	-.8082004+00	.3489841-01	.9847950-03	-.9218939-03	-.2025888-01
122	.3329436-01	-.8177803+00	.4643434-01	.6008046-03	-.1210750-02	-.2016277-01
123	.4090164-01	-.8308676+00	.5219737-01	.1520332-03	-.1342417-02	-.2012041-01
124	.4323342-01	-.8456582+00	.5106802-01	-.3009155-03	-.1307492-02	-.2011777-01
125	.4063012-01	-.8603563+00	.4365500-01	-.7031508-03	-.1118153-02	-.2015348-01
126	.3385976-01	-.8733830+00	.3094292-01	-.1019572-02	-.8027096-03	-.2020852-01
127	.2385823-01	-.8834590+00	.1452172-01	-.1204824-02	-.4005762-03	-.2026106-01
128	.1111840-01	-.1000000+01	-.1126997-01	-.1604898-02	.5029677-04	-.2045701-01
129	-.1389206-01	-.9995167+00	-.3683519-01	-.1497021-02	.5970397-03	-.2044953-01
130	-.3791041-01	-.9904588+00	-.5865316-01	-.1222377-02	.1077596-02	-.2036950-01
131	-.5894284-01	-.9734834+00	-.7492734-01	-.8023222-03	.1436820-02	-.2026579-01
132	-.7426498-01	-.9500742+00	-.8163332-01	-.2757757-03	.1629802-02	-.2020392-01
133	-.8115383-01	-.9227172+00	-.8351913-01	.2979393-03	.1628170-02	-.2019918-01
134	-.7783570-01	-.8946862+00	-.7438442-01	.8483313-03	.1427067-02	-.2025398-01
135	-.6397521-01	-.8696601+00	-.5716515-01	.1304919-02	.1046993-02	-.2033643-01
136	-.4106631-01	-.8511072+00	-.3386070-01	.1604357-02	.5316183-03	-.2041714-01
137	-.1212762-01	-.8417050+00	-.7358822-02	.1702962-02	-.5532304-04	-.2046425-01
138	-.1857039-01	-.8428444+00	.1897974-01	.1581162-02	-.6384551-03	-.2045196-01
139	.4626232-01	-.8543203+00	.4167776-01	.1250798-02	-.1140218-02	-.2036816-01
140	.6674678-01	-.8742926+00	.5778569-01	.7628506-03	-.1494842-02	-.2026175-01
141	.7771857-01	-.8997739+00	.6537146-01	.1922221-03	-.1659828-02	-.2019453-01
142	.7880731-01	-.9273247+00	.6376462-01	-.3837887-03	-.1621211-02	-.2020082-01
143	.7101653-01	-.9536556+00	.5343526-01	-.8961482-03	-.1390607-02	-.2026389-01
144	.5583327-01	-.9759329+00	.3586401-01	-.1290437-02	-.1001748-02	-.2034141-01
145	.3510886-01	-.9918932+00	.1320832-01	-.1534106-02	-.5028592-03	-.2041261-01
146	.1838850-01	-.3288305+00	-.1640386-01	-.5830828-02	.2535335-03	-.1148791-01
147	-.2578569+00	-.8982581-01	-.5119710-01	.2818744-03	.5865853-02	-.1146518-01
148	-.1912798-01	-.1868560+00	-.1319275-01	.5896276-02	-.2614821-03	-.1146416-01
149	.2578663+00	-.5170180-01	.2166794-01	-.2251197-03	-.5880158-02	-.1148393-01
150	.1624678-01	-.4481250+00	-.1671824-01	-.5828193-02	.2276795-03	-.1150871-01

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151	-.3482993+00	-.1146117+00	-.6460064-01	.2851373-03	.5798157-02	-.1152001-01
152	-.1451325-01	.2493416+00	-.1173370-01	.5839637-02	-.3486013-03	-.1152603-01
153	.3493502+00	-.8510517-01	.3620392-01	-.3526397-03	-.5924057-02	-.1154058-01
154	.1034757-01	-.4168539+00	-.1097545-01	-.4877875-02	.3215136-03	-.1263957-01
155	.9767880-02	-.4125765+00	-.1255248-01	-.5164873-02	.3538153-03	-.1254847-01
156	.1079669-01	-.3855344+00	-.1222815-01	-.5120358-02	.3514410-03	-.1242502-01
157	.1101215-01	-.3405182+00	-.1050238-01	-.4846847-02	.5410936-03	-.1235044-01
158	.1745832-01	-.3004119+00	-.1484357-01	-.5537048-02	.2726273-03	-.1244941-01
159	.1939958-01	-.2726135+00	-.1452771-01	-.5605793-02	.2777298-03	-.1245561-01
160	-.1147744+00	-.2480789+00	-.1738295-01	-.4657864-02	.3005457-02	-.1246646-01
161	-.2173289+00	-.1584411+00	-.1962419-01	-.2561246-02	.4987518-02	-.1246040-01
162	-.2626182+00	-.2855906-01	-.1956538-01	.2593629-03	.5573113-02	-.1132749-01
163	-.2333666+00	.1039524+00	-.1896786-01	.3093245-02	.4818313-02	-.1006630-01
164	-.1538769+00	.2263163+00	-.1683540-01	.4515937-02	.2303632-02	-.2405393-02
165	-.1896495-01	.2725588+00	-.1465441-01	.5192761-02	-.2565581-03	-.2890936-05
166	-.1385415+00	.2428533+00	-.1237485-01	.4575580-02	-.2929998-02	-.2663833-03
167	.2188912+00	.1382609+00	-.1024068-01	.2742851-02	-.5322819-02	-.1155628-01
168	.2637133+00	.8522018-02	-.9719906-02	-.2026013-03	-.5965404-02	-.1156179-01
169	.2376772+00	-.1262238+00	-.1054184-01	-.3094023-02	-.5023640-02	-.1155096-01
170	.1477669+00	-.2229871+00	-.1249028-01	-.5155008-02	-.2748044-02	-.1152275-01
171	.3592168+00	-.3885612-01	.2281557-01	.6322636-03	-.2465507-02	-.5917435-02
172	.5190314-01	.3593606+00	.1031611-01	.2577764-02	.2827022-03	-.5919759-02
173	.3895421+00	-.3097776-01	.2317257-01	.6055733-03	-.2535355-02	-.5913835-02
174	.4315009-01	-.4137712+00	.1606864-01	-.2391244-02	-.9709761-03	-.5924874-02
175	-.3796500+00	-.2935526-01	.2306638-02	-.8652369-03	.1956672-02	-.6749162-02
176	.3419427-01	-.3869606+00	.1913451-01	-.2160458-02	-.1567899-02	-.6721347-02
177	.5541708-01	.3263975+00	.1008095-01	.2898325-02	.5885903-03	-.6794801-02
178	-.3583078+00	-.1600352-01	.8977914-03	-.2675928-03	.2450084-02	-.6801113-02
179	-.3493814+00	-.5522929-02	.3326967-02	-.3651544-03	.2595104-02	-.3410247-02
180	.1418100-01	.3296930+00	.9447488-02	.2689978-02	.1002881-02	-.3473498-02
181	.3494543+00	-.3428020-01	.2021190-01	.8844903-03	-.2239543-02	-.3602093-02
182	-.1405885-01	-.3691517+00	.1407864-01	-.2154083-02	-.6113565-03	-.3475204-02
183	-.3246465+00	-.5731304-02	.1376465-02	-.4407736-03	.2399097-02	-.5987939-02
184	.2139470-01	.2975055+00	.8786176-02	.2833735-02	.6882465-03	-.5990030-02
185	.3246476+00	-.4852732-01	.2199106-01	.9034075-03	-.2380403-02	-.5988660-02
186	-.2140074-01	-.3517599+00	.1458324-01	-.2166640-02	-.6723777-03	-.5991501-02
187	-.3364005+00	-.7107824-02	.2093006-02	-.6459510-03	.2393345-02	-.6327463-02
188	.1809617-01	.3112168+00	.8988216-02	.2426497-02	.6693702-03	-.6330333-02
189	.3363983+00	-.4329839-01	.2127347-01	.7026227-03	-.2400721-02	-.6327133-02
190	-.1809554-01	-.3615745+00	.1438032-01	-.2375690-02	-.6778120-03	-.6324595-02
191	-.3493360+00	.5045577-02	.1181404-01	.1643265-02	.1759364-02	-.1594079-03
192	-.3598175+00	.1139071-01	.1181289-01	-.1947627-03	.2365783-02	-.6094011-02
193	-.3864346+00	.5218686-02	.1179950-01	-.5576426-03	.2531568-02	-.5052825-02

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VIBRATIONAL MODE

EIGENVALUE= .3135963+05, FREQ= 28.1842 HZ

ID= 2 / 1 / 6

JOINT	1	2	3	4	5	6
1	-.1724787-03	-.8452862-05	-.1128962-03	.2333780-04	-.4889886-04	-.2785069-04
2	-.2876973-04	.5669972-04	.2894446-03	-.5298877-05	-.7704988-04	-.7384780-05
3	-.2752936-04	.7983325-04	.1207163-03	-.2478248-04	-.3175118-04	.1117334-04
4	-.9760359-04	.1129060-03	-.1447144-03	-.2819282-04	.4082834-04	.1168044-04
5	-.4926637-04	.1446220-03	-.2821010-03	-.4499103-05	.7515812-04	-.1256515-04
6	.1914727-03	.9887203-04	-.1756263-03	.1795809-04	.3317551-04	-.3435725-04
7	.4290180-03	-.6646588-04	.3064763-04	.1955855-04	-.3507323-04	-.2694955-04
8	.4533479-03	-.2946835-03	.1249528-03	-.1860624-05	-.6240286-04	-.8977820-05
9	.2146760-03	-.4676116-03	.1273227-04	-.2040082-04	-.2719368-04	.1105493-04
10	-.1597563-03	-.4839833-03	-.1953766-03	-.1647492-04	.4132222-04	.1125951-04
11	-.3985881-03	-.3469630-03	-.2668454-03	.6414099-05	.7112541-04	-.1456488-04
12	-.3589522-03	-.1480668-03	-.9070082-04	.2882872-04	.2764687-04	-.3177843-04
13	-.1978235-03	-.3378725-03	.4158837-03	.1583040-04	-.1013028-04	-.1719306-04
14	-.2682138-03	-.2134887-03	.4740277-03	.8837159-05	-.1647034-04	-.1687537-04
15	-.2642751-03	-.7183505-04	.4897842-03	-.7969035-04	-.1865358-04	-.1664083-04
16	-.1901701-03	.4944986-04	.4594869-03	-.1043823-04	-.1566141-04	-.1652241-04
17	-.6478966-04	.1186006-03	.3932170-03	-.1736446-04	-.8314648-05	-.1643825-04
18	.7622496-04	.1159913-03	.3120494-03	-.1939048-04	.1194533-05	-.1642283-04
19	.1973242-03	.4023850-04	.2302140-03	-.1670285-04	.1044688-04	-.1659994-04
20	.2649574-03	-.8385166-04	.1626413-03	-.9649094-05	.1772763-04	-.1664202-04
21	.2618448-03	-.2239621-03	.1428028-03	.5170853-06	.2022006-04	-.1661877-04
22	.1889997-03	-.3452088-03	.1747516-03	.1042287-04	.1698989-04	-.1666252-04
23	.6500586-04	-.4138753-03	.2436452-03	.1724914-04	.9318211-05	-.1672286-04
24	-.7605847-04	-.4110658-03	.3317336-03	.1936371-04	-.6641620-06	-.1675873-04
25	-.2578240-03	.1670252-04	-.9155291-04	-.1409447-04	-.6699224-05	-.9124825-05
26	-.1807456-03	.1346470-03	-.1503579-03	-.1535175-04	.1638537-05	-.9097878-05
27	-.5535220-04	.1981049-03	-.2052548-03	-.1283692-04	.9166673-05	-.9060751-05
28	.8467333-04	.1902936-03	-.2414216-03	-.6202423-05	.1401559-04	-.9016747-05
29	.2020112-03	.1134033-03	-.2497844-03	-.1584606-05	.1508034-04	-.9016829-05
30	.2652695-03	-.1202266-04	-.2282014-03	.8890229-05	.1229988-04	-.9018211-05
31	.2576093-03	-.1525054-03	-.1823986-03	.1385675-04	.6400283-05	-.9208206-05
32	.1809323-03	-.2704552-03	-.1247430-03	.1517714-04	-.1324616-05	-.9157906-05
33	.5571314-04	-.3343022-03	-.7020163-04	.1248303-04	-.8618095-05	-.9162230-05
34	-.8446433-04	-.3269307-03	-.3347262-04	.6494518-05	-.1366775-04	-.9269640-05
35	-.2022486-03	-.2501044-03	-.2439600-04	-.1274289-05	-.1526411-04	-.9227820-05
36	-.2657139-03	-.1242653-03	-.4535560-04	-.8816568-05	-.1293602-04	-.9220327-05
37	.4303043-03	-.4568091-05	-.2636250-04	-.1684317-05	.6222008-05	-.9131887-05
38	-.2155121-02	-.5635808-03	-.7185165-02	-.1046006-02	.2694625-02	.8705373-04
39	-.3250918-02	-.1816249-03	-.1145378-01	-.3113842-03	.4286663-02	-.5502990-04
40	-.2872799-02	.2406913-03	-.1036785-01	.5689309-03	.3877685-02	-.1785409-03
41	-.1178711-02	.5183526-03	-.4436064-02	.1182552-02	.1658845-02	-.2257145-03
42	.1061003-02	.5267936-03	.3564217-02	.1241989-02	-.1332407-02	-.1744934-03
43	.2821477-02	.2595346-03	.9886884-02	.7191946-03	-.3697635-02	-.4884670-04
44	.3300139-02	-.1685005-03	.1157026-01	-.1413276-03	-.4331599-02	.9245056-04
45	.2289632-02	-.5735451-03	.7823240-02	-.9369537-03	-.2939278-02	.1833248-03
46	.2727016-03	-.7869725-03	.3956641-03	-.1295293-02	-.1737171-03	.1813143-03
47	-.1809950-02	-.7316598-03	-.7239957-02	-.1048408-02	.2669717-02	.8742328-04
48	-.2977334-02	-.4553349-03	-.1151278-01	-.3114072-03	.4259611-02	-.5436238-04
49	-.2209303-02	-.1056233-03	-.1042523-01	.5713168-03	.3851636-02	-.1776582-03
50	-.1145261-02	.1412346-03	-.4483117-02	.1187176-02	.1636924-02	-.2247435-03

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51	.9606400-03	.1643750-03	.3532363-02	.1248382-02	-.1347470-02	-.1735689-03
52	.2599917-02	-.4448531-04	.9874370-02	.7265577-03	-.3703909-02	-.4807782-04
53	.2984344-02	-.3774829-03	.1157870-01	-.1340044-03	-.4328304-02	.9299170-04
54	.1917415-02	-.6622999-03	.7851381-02	-.9306418-03	-.2926893-02	.1835904-03
55	-.1115510-03	-.7447807-03	.4398321-03	-.1290721-02	-.1538599-03	.1812700-03
56	-.3864482-01	-.2557214-01	-.2975861-01	-.3562823-02	.2163640-02	-.3145026-02
57	-.6089603-01	-.6604653-02	-.4729127-01	-.9411315-03	.3417207-02	.7962969-03
58	-.5470826-01	.1498457-01	-.4271035-01	.2120927-02	.3071875-02	-.1934806-02
59	-.2295691-01	.2961592-01	-.1815939-01	.4190557-02	.1289232-02	-.3770344-02
60	.1952511-01	.3025129-01	.1487374-01	.4299359-02	-.1096598-02	-.3851430-02
61	.5288521-01	.1659285-01	.4093244-01	.2396458-02	-.2969263-02	-.2140140-02
62	.6153761-01	-.4977621-02	.4782375-01	-.6277313-03	-.3452549-02	.5627723-03
63	.4145307-01	-.2438374-01	.3232348-01	-.3358159-02	-.2320347-02	.2992576-02
64	.2041819-02	-.3256744-01	.1684589-02	-.4517246-02	-.1024488-03	.4012347-02
65	-.3825119-01	-.2572460-01	-.2975658-01	-.3562663-02	.2163362-02	.3144939-02
66	-.6057737-01	-.3081948-02	-.4728837-01	-.9410703-03	.3416892-02	.7962239-03
67	-.5450314-01	.1461573-01	-.4270741-01	.2120875-02	.3071600-02	-.1934813-02
68	-.2289046-01	.2919999-01	-.1815703-01	.4190458-02	.1289047-02	-.3770285-02
69	.1944468-01	.2983854-01	.1487545-01	.4299279-02	-.1096690-02	-.3851342-02
70	.5266711-01	.1623319-01	.4093373-01	.2396407-02	-.2969285-02	-.2140061-02
71	.6120958-01	-.5240738-02	.4782472-01	-.6277951-03	-.3452515-02	.5628149-03
72	.4105417-01	-.2451868-01	.3232385-01	-.3358279-02	-.2320246-02	.2992602-02
73	.1620461-02	-.3255809-01	.1683869-02	-.4517422-02	-.1022593-03	.4012401-02
74	-.1121981+00	-.7560722-01	-.6263955-01	-.5296995-02	.3136444-02	.6639029-02
75	-.1782628+00	-.2038543-01	-.9979394-01	-.1411124-02	.4969409-02	.1741477-02
76	-.1609765+00	.4410814-01	-.9027192-01	.3134986-02	.4477278-02	-.3981206-02
77	-.6840840-01	.8771385-01	-.3852964-01	.6214132-02	.1890357-02	-.7851164-02
78	.5615124-01	.9003839-01	.3122174-01	.6385645-02	-.1580880-02	-.8057632-02
79	.1544464+00	.4999562-01	.8634596-01	.3569427-02	-.4312243-02	-.4504140-02
80	.1805105+00	-.1368598-01	.1010522+00	-.9167206-03	-.5025801-02	.1146540-02
81	.1221704+00	-.7122583-01	.6846165-01	-.4973733-02	-.3387763-02	.6250446-02
82	.6738642-02	-.9572364-01	.3825437-02	-.6703352-02	-.1646455-03	.8419448-02
83	-.1117675+00	-.7574339-01	-.6261131-01	-.5296327-02	.3135389-02	.6638697-02
84	-.1779024+00	-.2066095-01	-.9976166-01	-.1411066-02	.4968216-02	.1741462-02
85	-.1607340+00	.4372644-01	-.9024226-01	.3134486-02	.4476228-02	-.3980894-02
86	-.6831490-01	.8727332-01	-.3850688-01	.6213402-02	.1889616-02	-.7850878-02
87	.5608671-01	.8959330-01	.3123679-01	.6384951-02	-.1581321-02	-.8057627-02
88	.1542350+00	.4959963-01	.8635397-01	.3568779-02	-.4312463-02	-.4504385-02
89	.1601794+00	-.1398623-01	.1010529+00	-.9174809-03	-.5025805-02	.1146296-02
90	.1217579+00	-.7139521-01	.6845316-01	-.4974678-02	-.3387464-02	.6250439-02
91	.6291300-02	-.9574189-01	.3806431-02	-.6704333-02	-.1639514-03	.8419731-02
92	-.2142095+00	-.1448722+00	-.9496854-01	-.6631646-02	.3865904-02	.1063190-01
93	-.3411707+00	-.3910957-01	-.1514428+00	-.1772375-02	.6108613-02	.2818526-02
94	-.3085567+00	.8461125-01	-.1370745+00	.3916063-02	.5493139-02	-.6323958-02
95	-.1316125+00	.1684189+00	-.5858912-01	.7771947-02	.2307573-02	-.1251746-01
96	.1068891+00	.1731118+00	.4728791-01	.7991283-02	-.1957463-02	-.1286417-01
97	.2953794+00	.9649847-01	.1310178+00	.4471705-02	-.5306380-02	-.7202232-02
98	.3456936+00	-.2557952-01	.1534270+00	-.1139874-02	-.6172337-02	.1818993-02
99	.2343155+00	-.1360179+00	.1040339+00	-.6217868-02	-.4150270-02	.9978591-02
100	.1337585-01	-.1831658+00	.5951968-02	-.8386362-02	-.1863713-03	.1345877-01

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101	-.2137399+00	-.1449907+00	-.9492428-01	-.6630731-02	.3864602-02	.1063118-01
102	-.3407688+00	-.3918296-01	-.1513930+00	-.1772454-02	.6107155-02	.2818801-02
103	-.3082802+00	.8421731-01	-.1370313+00	.3915218-02	.5491955-02	-.6322970-02
104	-.1315000+00	.1679569+00	-.5855852-01	.7770962-02	.2306835-02	-.1251674-01
105	.1068336+00	.1726410+00	.4730744-01	.7990591-02	-.1957883-02	-.1286444-01
106	.2951756+00	.9607430-01	.1310300+00	.4971199-02	-.5306685-02	-.7203212-02
107	.3453691+00	-.2591093-01	.1534314+00	-.1140652-02	-.6172531-02	.1818306-02
108	.2339000+00	-.1362200+00	.1040248+00	-.6219173-02	-.4150109-02	.9978849-02
109	.1290701-01	-.1832131+00	.5924085-02	-.8387839-02	-.1856124-03	.7345977-01
110	-.3612014+00	-.2445571+00	-.1273176+00	-.7922547-02	.4867113-02	.1579404-01
111	-.5765941+00	-.6626994-01	-.2033241+00	-.2128285-02	.7670156-02	.4225510-02
112	-.5222527+00	.1926219+00	-.1842113+00	.4661484-02	.6884312-02	-.9330161-02
113	-.2235999+00	.2843956+00	-.7892799-01	.9269734-02	.2877505-02	-.1852976-01
114	.1796361+00	.2927325+00	.6325974-01	.7540591-02	-.2475316-02	-.1906958-01
115	.4988124+00	.1637409+00	.1758245+00	.5347776-02	-.6669636-02	-.1069783-01
116	.5846256+00	-.4222821-01	.2061039+00	-.1346833-02	-.7743145-02	.2668351-02
117	.3469534+00	-.2288188+00	.1399348+00	-.7411058-02	-.5193697-02	.1477540-01
118	.2362476-01	-.1087493+00	.8279468-02	-.1000756-01	-.2142161-03	.1995850-01
119	-.3606720+00	-.2446497+00	-.1272588+00	-.7921367-02	.4865378-02	.1574258-01
120	-.5761270+00	-.6654131-01	-.2032592+00	-.2126611-02	.7668292-02	.4226672-02
121	-.5219374+00	.1422113+00	-.1841592+00	.4660217-02	.6882983-02	-.9327765-02
122	-.2234756+00	.2839090+00	-.7889492-01	.9268539-02	.2876875-02	-.1852838-01
123	.1795825+00	.2922362+00	.6327999-01	.9540051-02	-.2475577-02	-.1907047-01
124	.4986200+00	.1632898+00	.1758409+00	.5347608-02	-.6669930-02	-.1070023-01
125	.5843247+00	-.4259345-01	.2061151+00	-.1347452-02	-.7743494-02	.2666720-02
126	.3965513+00	-.2290635+00	.1392988+00	-.7412680-02	-.5193647-02	.1477638-01
127	.2313148-01	-.3088385+00	.8245988-02	-.1000962-01	-.2132831-03	.1996115-01
128	-.6145561+00	-.4069104+00	-.2080528+00	-.1130635-01	.5530029-02	.2585896-01
129	-.9850253+00	-.1113984+00	-.3268453+00	-.2857174-02	.8568795-02	.7022302-02
130	-.8946381+00	.2357884+00	-.2927376+00	.6928943-02	.7598276-02	-.1511080-01
131	-.3856864+00	.4722124+00	-.1216957+00	.1347214-01	.3072771-02	-.3018197-01
132	.3036501+00	.4872686+00	.1062346+00	.1371143-01	-.2690024-02	-.3113701-01
133	.8508463+00	.2739469+00	.2844159+00	.7536306-02	-.7500355-02	-.1753898-01
134	.1000000+01	-.6794499-01	.3294898+00	-.2165018-02	-.8601281-02	.4251798-02
135	.6813559+00	-.3784690+00	.2203623+00	-.1085316-01	-.5677573-02	.2404515-01
136	.4395319-01	-.5123574+00	.8099900-02	-.1446340-01	-.9728376-04	.3257985-01
137	-.6139499+00	-.4069797+00	-.2079907+00	-.1130623-01	.5528763-02	.2585780-01
138	-.9845004+00	-.1116704+00	-.3267865+00	-.2857423-02	.8567850-02	.7025976-02
139	-.8943161+00	.2353665+00	-.2926783+00	.6929545-02	.7597324-02	-.1510551-01
140	-.3855944+00	.4717201+00	-.1216182+00	.1347390-01	.3071132-02	-.3017998-01
141	.3035960+00	.4867756+00	.1063418+00	.1371273-01	-.2892559-02	-.3114286-01
142	.8507300+00	.2734813+00	.2845241+00	.7534844-02	-.7502912-02	-.1754389-01
143	.9997686+00	-.6835366-01	.3295534+00	-.2168923-02	-.8602650-02	.4252032-02
144	.6809614+00	-.3787699+00	.2203588+00	-.1085697-01	-.5677269-02	.2404906-01
145	.4340897-01	-.5124931+00	.8051084-02	-.1446515-01	-.9602577-04	.3258415-01
146	-.2395870-03	-.3509403-03	.3884237-03	.1630221-04	-.1005632-04	-.1544759-04
147	-.2556319-03	.1433300-03	.4273411-03	-.1007966-04	-.1633108-04	-.1546511-04
148	.2386576-03	.1598861-03	.2635640-03	-.1634287-04	.1008728-04	-.1548057-04
149	.2557857-03	-.3340423-03	.2241983-03	.1005378-04	.1643856-04	-.1548411-04
150	-.8082230-04	-.1301447-03	.4119560-03	.1645709-04	-.9981202-05	-.1548112-04

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151	.3020347-05	-.5149561-04	.4673083-03	-.9912014-05	-.1641867-04	-.1548336-04
152	.8217075-04	-.1357772-03	.2410657-03	-.1634691-04	-.9886955-05	-.1548911-04
153	-.2073030-05	-.2154303-03	.1860475-03	.9913605-05	-.1628252-04	-.1549099-04
154	.8898471-04	.2769467-03	.3265429-03	.1653277-04	-.1023254-04	-.1643018-04
155	.6506535-04	.2342661-03	.3249448-03	.1634344-04	-.1019480-04	-.1648435-04
156	.1504605-04	.1493000-03	.3242157-03	.1625097-04	-.1024286-04	-.1660489-04
157	-.6831935-04	.1524307-04	.3241517-03	.1618441-04	-.1027065-04	-.1663335-04
158	-.1574118-03	-.1229315-03	.3260044-03	.1651086-04	-.1020508-04	-.1646343-04
159	-.2261229-03	-.2489613-03	.3344846-03	.1655275-04	-.1018897-04	-.1646415-04
160	-.3127551-03	-.1041796-03	.3404237-03	.9221909-05	-.1706201-04	-.1645725-04
161	-.3164420-03	.6442740-04	.3428880-03	-.5570013-06	-.1942050-04	-.1645839-04
162	-.2370420-03	.2147518-03	.3407520-03	-.1024751-04	-.1663615-04	-.1496946-04
163	-.9293673-04	.3042729-03	.3346957-03	-.1719537-04	-.9331386-05	-.1330207-04
164	.8107466-04	.3169092-03	.3262168-03	-.1955092-04	.6679220-06	-.3178580-05
165	.2295193-03	.2364864-03	.3180084-03	-.1661067-04	.1032338-04	-.3880219-08
166	.3160993-03	.8996187-04	.3121320-03	-.9239312-05	.1716379-04	-.3575328-06
167	.3148467-03	-.9239599-04	.3098655-03	.4999356-06	.1905917-04	-.1548954-04
168	.2332101-03	-.2397700-03	.3122414-03	.1000076-04	.1626004-04	-.1547941-04
169	.8882874-04	-.3265663-03	.3183434-03	.1681562-04	.9082800-05	-.1545917-04
170	-.7962123-04	-.3295455-03	.3265336-03	.1912391-04	-.5487766-06	-.1544416-04
171	.7433797-04	.2172451-03	-.2004735-03	-.4728265-05	.1413512-04	-.8385488-05
172	-.2074708-03	-.1117133-03	-.1238045-03	-.1450926-04	-.2969497-05	-.8370221-05
173	-.9887351-04	.1593147-03	-.2002527-03	-.4723134-05	.1391750-04	-.8387542-05
174	.1837674-03	.8472530-04	-.1660848-03	.1333705-04	.6416179-05	-.8308683-05
175	.1092057-03	-.2224532-03	-.6998440-04	.5982869-05	-.1465216-04	-.9505687-05
176	.2629761-03	-.8405613-04	-.1663439-03	.1332662-04	.6526083-05	-.9353818-05
177	-.2416905-03	.6488987-04	-.1189975-03	-.1396079-04	-.4268371-05	-.9553827-05
178	-.7373947-04	-.2922942-03	-.7432586-04	.6387658-05	-.1387175-04	-.9703985-05
179	-.1249815-03	-.3025066-03	-.8827756-04	.6151902-05	-.1371177-04	-.4695540-05
180	-.2751538-03	.9734766-04	-.1170242-03	-.1363860-04	-.5437238-05	-.4902901-05
181	.1252308-03	.2465018-03	-.1860496-03	-.5372044-05	.1422234-04	-.5166696-05
182	.2752486-03	-.1529291-03	-.1572818-03	.1438771-04	.5970221-05	-.4897449-05
183	-.2704728-03	-.3757506-03	-.7720737-04	.6294841-05	-.1396892-04	-.8417881-05
184	-.3375179-03	.3322452-03	-.1116485-03	-.1365716-04	-.5968861-05	-.8480664-05
185	.2704655-03	.2992164-03	-.1973134-03	.5640759-05	.1397983-04	-.8437173-05
186	.3374780-03	-.3086677-03	-.1628719-03	.1432120-04	.5988563-05	-.8414877-05
187	-.2020069-03	-.3438128-03	-.8140728-04	.6001935-05	-.1396814-04	-.8914056-05
188	-.3083187-03	.1665516-03	-.1134248-03	-.1393362-04	-.5972544-05	-.8920560-05
189	.2020535-03	.2728057-03	-.1931303-03	-.5905791-05	.1396109-04	-.8920706-05
190	.3083165-03	-.2375195-03	-.1610953-03	.1399115-04	.5950184-05	-.8915335-05
191	-.1423942-03	-.9643440-04	-.1371254-03	-.3563061-04	-.1462238-04	.2960679-06
192	-.6509895-04	-.2466121-03	-.1371099-03	-.3002698-05	-.1413662-04	-.8594311-05
193	.8169639-04	-.2038817-03	-.1371186-03	.3482428-05	-.1410233-04	-.7134552-05

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VIBRATIONAL MODE
EIGENVALUE = .3138643*05, FREQ = 28.1962 HZ IO = 2 / 1 / 7

JOINT	1	2	3	4	5	6
1	-.2105265-03	.1087910-04	.2500252-03	-.1639077-04	-.6684951-04	.2189778-04
2	-.3690701-03	.1671811-03	.4533063-06	-.3170092-04	.3868889-05	.3233806-04
3	-.4229950-03	.3774393-03	-.2381340-03	-.1655984-04	.6341816-04	.2022227-04
4	-.2097090-03	.5340592-03	-.2513216-03	.7592729-05	.5539265-04	-.6458139-05
5	.1850853-03	.5361971-03	-.8192434-04	.1924015-04	-.4688637-05	-.1379057-04
6	.5053038-03	.3549435-03	.6601570-04	.7179304-05	-.5427484-04	.2363683-06
7	.5584167-03	.7886526-04	.3129296-04	-.1450106-04	-.4694997-04	.2114114-04
8	.3285644-03	-.1548689-03	-.1549171-03	-.1939809-04	.1572222-04	.3459198-04
9	.1592075-04	-.2429819-03	-.3017106-03	-.1685032-05	.7024088-04	.1811884-04
10	-.1388828-03	-.2286320-03	-.2235568-03	.2456610-04	.5585514-04	-.7031554-05
11	-.1313389-03	-.1609952-03	.3343951-04	.3378661-04	-.1050023-04	-.1458448-04
12	-.1163295-03	-.8765422-04	.2699127-03	.1543696-04	-.7172414-04	-.6355357-06
13	-.2440807-03	.2910430-03	.5798731-03	-.1068275-04	-.1409424-04	.1376679-04
14	-.1241568-03	.3885199-03	.5132804-03	-.1668737-04	-.7106229-05	.1337013-04
15	.2496644-04	.4145575-03	.4267066-03	-.1842062-04	.3004008-05	.1340685-04
16	.1676032-03	.3620416-03	.3427569-03	-.1530646-04	.1212775-04	.1353781-04
17	.2661191-03	.2457164-03	.2839116-03	-.7848157-05	.1799897-04	.1342505-04
18	.2920716-03	.9736589-04	.2736368-03	.1972382-05	.1930331-04	.1359376-04
19	.2411185-03	-.4723956-04	.3132705-03	.1083982-04	.1510532-04	.1351201-04
20	.1252554-03	-.1485100-03	.3735167-03	.1608874-04	.7782710-05	.1334472-04
21	-.2663434-04	-.1741252-03	.4508947-03	.1741874-04	-.1088796-05	.1348303-04
22	-.1712017-03	-.1208406-03	.5323595-03	.1418336-04	-.9872206-05	.1356704-04
23	-.2700696-03	-.3590526-05	.5902328-03	.6942819-05	-.1592331-04	.1357974-04
24	-.2972107-03	.1472369-03	.6075201-03	-.2260437-05	-.1143037-04	.1359725-04
25	-.3242149-03	-.5120501-04	-.1337974-03	.1020108-04	-.9576313-05	.7597732-05
26	-.3342884-03	.1260810-03	-.1042470-03	.4214745-05	-.1318997-04	.7521475-05
27	-.2544562-03	.2843634-03	-.1004015-03	-.2822550-05	-.1320210-04	.7520873-05
28	-.1064605-03	.3811241-03	-.1224184-03	-.8983760-05	-.9835951-05	.7629968-05
29	.6997405-04	.3905725-03	-.1642233-03	-.1272870-04	-.4140794-05	.7593159-05
30	.2273931-03	.3103896-03	-.2149736-03	-.1313331-04	.2734283-05	.7582914-05
31	.3239993-03	.1620381-03	-.2610643-03	-.1007155-04	.8878820-05	.7378679-05
32	.3338746-03	-.1467533-04	-.2903895-03	-.4363489-05	.1260824-04	.7364302-05
33	.2543637-03	-.1725772-03	-.2949791-03	.2514792-05	.1314405-04	.7329319-05
34	.1067970-03	-.2694984-03	-.2736820-03	.8753478-05	.1022166-04	.7296508-05
35	-.6942391-04	-.2794516-03	-.2319546-03	.1274621-04	.4637331-05	.7300103-05
36	-.2271267-03	-.1996420-03	-.1806843-03	.1333415-04	-.2578244-05	.7327245-05
37	.5720168-03	.2510265-04	-.4120890-04	.8061979-06	.8990747-05	.8232227-05
38	-.2670007-02	.4497876-03	-.9194468-02	.7572346-03	.3443004-02	-.1698981-03
39	-.8187766-03	.7266342-03	-.2468028-02	.1245940-02	.9283898-03	-.1927089-03
40	.1311714-02	.7442493-03	.5402543-02	.1150861-02	-.2015261-02	-.1195661-03
41	.2780890-02	.5184264-03	.1073196-01	.5159532-03	-.4012234-02	.1530473-04
42	.2895262-02	.1756705-03	.1102284-01	-.3619330-03	-.4130217-02	.1488184-03
43	.1621846-02	-.1085179-03	-.6134594-02	-.1072152-02	-.2316241-02	.2185550-03
44	-.4190364-03	-.1935828-03	-.1650429-02	-.1282327-02	.5788340-03	.1919572-03
45	-.2247081-02	-.4058671-04	-.8694251-02	-.8938682-03	.3198618-02	.8155275-04
46	-.2983730-02	.2696845-03	-.1170493-01	-.8811324-04	.4316083-02	-.6092012-04
47	-.2265897-02	.5756368-03	-.9276301-02	.7584905-03	.3407825-02	-.1687329-03
48	-.4179738-03	.7124554-03	-.2545531-02	.1250458-02	.8990533-03	-.1913957-03
49	.1628530-02	.5918175-03	.5339013-02	.1158183-02	-.2035357-02	-.1182828-03
50	.3087580-02	.2461388-03	.1069064-01	.5252806-03	-.4020683-02	.1639426-04

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51	.5085275-02	-.1836830-03	.1100900-01	-.3518441-03	-.4125886-02	.1495948-03
52	.1672186-02	-.5116540-03	.6149620-02	-.1062672-02	-.2299535-02	.2189439-03
53	-.5149523-03	-.5918980-03	-.1608903-02	-.1274644-02	.6059062-03	.1919202-03
54	-.2478127-02	-.3659822-03	-.8631544-02	-.8887995-03	.3232706-02	.8108330-04
55	-.3321964-02	.1893377-04	-.1162834-01	-.8611062-04	.4352761-02	-.6178538-04
56	-.4852376-01	.2010642-01	-.3785049-01	.2760953-02	.2716363-02	-.2465144-02
57	-.1270154-01	.3163275-01	-.1004221-01	.4387368-02	.7007539-03	-.3903646-02
58	.2898357-01	.2854576-01	.2244211-01	.3261108-02	-.1642806-02	-.3507471-02
59	.5703625-01	.1231633-01	.4440439-01	.1681618-02	-.3217832-02	-.1462090-02
60	.5834898-01	-.9440196-02	.4556257-01	-.1384587-02	-.3287437-02	.1275417-02
61	.3233215-01	-.2652988-01	.2539298-01	-.3802923-02	-.1819092-02	.3424198-02
62	-.8813350-02	-.3095167-01	-.6684995-02	-.4441946-02	.5001637-03	.3978893-02
63	-.4580828-01	-.2064105-01	-.3565591-01	-.3002717-02	.2585179-02	.2679974-02
64	-.6131848-01	-.4362654-03	-.4726541-01	-.1586799-03	.3460413-02	.1351559-03
65	-.4806826-01	.2018781-01	-.3785527-01	.2759393-02	.2716398-02	-.2464864-02
66	-.1224735-01	.3155498-01	-.1005781-01	.4386081-02	.7013399-03	.3903504-02
67	.2938371-01	.2431855-01	.2241843-01	.3960246-02	-.1641807-02	-.3507576-02
68	.5733590-01	.1196655-01	.4437594-01	.1681185-02	-.3216576-02	-.1462288-02
69	.5851176-01	-.9871220-02	.4553940-01	-.1384647-02	-.3286044-02	.1275397-02
70	.3233634-01	-.2699053-01	.2536380-01	-.3802615-02	-.1817659-02	.3424198-02
71	-.8970203-02	-.3138575-01	-.6710193-02	-.4441198-02	.5015015-03	.3979274-02
72	-.4610694-01	-.2099549-01	-.3567362-01	-.3001999-02	.2586225-02	.2680149-02
73	-.6172072-01	-.6667870-03	-.4797253-01	-.1571405-03	.3460970-02	.1350136-03
74	-.1427243+00	.5858431-01	-.8002004-01	.4085731-02	.3962219-02	-.5136145-02
75	-.3796245-01	.9292588-01	-.2138416-01	.6508130-02	.1035078-02	-.8178334-02
76	.8447760-01	.8407024-01	.4723055-01	.5885706-02	-.2376290-02	-.7385389-02
77	.1673196+00	.3618837-01	.9372307-01	.2509711-02	-.4675842-02	-.3128421-02
78	.1718235+00	-.2829484-01	.9634283-01	-.2040325-02	-.4787733-02	.2600826-02
79	.9590873-01	-.7919514-01	.5386612-01	-.5635548-02	-.2659670-02	.7121688-02
80	-.2487499-01	-.9269356-01	-.1383094-01	-.6193790-02	.7125849-03	.8318830-02
81	-.1339835+00	-.6248158-01	-.7507181-01	-.4466709-02	.3751105-02	.5631969-02
82	-.1803286+00	-.2712496-02	-.1012014+00	-.2496577-03	.5034121-02	.3182188-03
83	-.1422318+00	.5862182-01	-.7999451-01	.4084022-02	.3961321-02	-.5136038-02
84	-.3748579-01	.9279342-01	-.2137710-01	.6506389-02	.1034780-02	-.8178570-02
85	.8488359-01	.8378271-01	.4721889-01	.5883940-02	-.2375985-02	-.7385697-02
86	.1676049+00	.3577905-01	.9369263-01	.2507995-02	-.4674895-02	-.3128496-02
87	.1719504+00	-.2877699-01	.9629538-01	-.2041743-02	-.4786153-02	.2601071-02
88	.9585826-01	-.7269111-01	.5380670-01	-.5636312-02	-.2657616-02	.7122073-02
89	-.2509487-01	-.9314201-01	-.1389379-01	-.6593655-02	.7147949-03	.8318977-02
90	-.1343432+00	-.6282788-01	-.7512848-01	-.4465235-02	.3753097-02	.5631749-02
91	-.1807916+00	-.2916108-02	-.1012444+00	-.2481475-03	.5035620-02	.3178666-03
92	-.2735617+00	.1117802+00	-.1215176+00	.5105825-02	.4858058-02	-.8193692-02
93	-.7314411-01	.1777838+00	-.3256078-01	.8140603-02	.1256250-02	-.1306686-01
94	.1614117+00	.1609546+00	.7150260-01	.7366766-02	-.2933245-02	-.1181746-01
95	.3203732+00	.6919485-01	.1422400+00	.3146444-02	-.5750320-02	-.5030232-02
96	.3293875+00	-.5454141-01	.1463043+00	-.2595844-02	-.5876991-02	.4119391-02
97	.1842632+00	-.1523471+00	.8189708-01	-.7046838-02	-.3254018-02	.1135047-01
98	-.4706689-01	-.1784575+00	-.2084542-01	-.8250466-02	.8912860-03	.1327934-01
99	-.2563305+00	-.1206647+00	-.1138469+00	-.5593477-02	.4619244-02	.9003085-02
100	-.3955828+00	-.6030790-02	-.1535896+00	-.3192004-03	.6185439-02	.5225434-03

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101	-.2730421+00	.1117770+00	-.1214784+00	.5104232-02	.4857042-02	-.8194026-02
102	-.7264661-01	.1776018+00	-.3254286-01	.8138906-02	.1255752-02	-.1306765-01
103	.1618264+00	.1606118+00	.7159699-01	.7364804-02	-.2933148-02	-.1181795-01
104	.3206464+00	.6873006-01	-.1422071+00	.3144280-02	-.5749451-02	-.5029879-02
105	.3294762+00	-.5507038-01	.1462442+00	-.2547794-02	-.5875271-02	.4120232-02
106	.1841557+00	-.1528724+00	.8181672-01	-.7047832-02	-.3251691-02	.1135096-01
107	-.4734851-01	-.1789133+00	-.2093067-01	-.8250250-02	.8937270-03	.1327899-01
108	-.2567427+00	-.1209978+00	-.1139231+00	-.5592389-02	.4621349-02	.9002293-02
109	-.3460751+00	-.6205175-02	-.1536487+00	-.3177232-03	.6187003-02	.5270864-03
110	-.4631416+00	.1878772+00	-.1633478+00	.6082239-02	.6084538-02	-.1212337-01
111	-.1246483+00	.2995965+00	-.4397988-01	.9711643-02	.1557492-02	-.1936896-01
112	.2720761+00	.2715442+00	.9593609-01	.8797363-02	-.3698129-02	-.1754306-01
113	.5414274+00	.1168749+00	.1909404+00	.3767308-02	-.7223424-02	-.7500362-02
114	.5574081+00	-.9202374-01	.1965868+00	-.3025206-02	-.7369069-02	.6060627-02
115	.3125643+00	-.2574004+00	.1102346+00	-.8402280-02	-.4066895-02	.1679553-01
116	-.7851875-01	-.3018738+00	-.271244-01	-.9847774-02	.1138038-02	.1968070-01
117	-.4328123+00	-.2046439+00	-.1527036+00	-.6685069-02	.5810179-02	.1336506-01
118	-.5844997+00	-.1123030-01	-.2062510+00	-.3942389-03	.7763229-02	.8039250-03
119	-.4625870+00	.1878313+00	-.1633000+00	.6080799-02	.6083346-02	-.1212444-01
120	-.1241212+00	.2993647+00	-.4395397-01	.9710074-02	.1556735-02	-.1937049-01
121	.2725099+00	.2711385+00	.9593632-01	.8795357-02	-.3698312-02	-.1754380-01
122	.5416934+00	.1163437+00	.1909071+00	.3764730-02	-.7222674-02	-.7499193-01
123	.5574477+00	-.9209978-01	.1965154+00	-.3027643-02	-.7367152-02	.6062654-02
124	.3123792+00	-.2579589+00	.1101361+00	-.8403350-02	-.4064167-02	.1679601-01
125	-.7887380-01	-.3023345+00	-.2781405-01	-.9847257-02	.1140803-02	.1967912-01
126	-.4332759+00	-.2049606+00	-.1527914+00	-.6683834-02	.5812441-02	.1336345-01
127	-.5850299+00	-.1137382-01	-.2063194+00	-.3928572-03	.7764907-02	.8037006-03
128	-.7939572+00	.3102939+00	-.2585043+00	.8958266-02	.6686787-02	-.1970518-01
129	-.2165199+00	.4968590+00	-.6541202-01	.1407267-01	.1596069-02	-.3159218-01
130	.4621056+00	.4514047+00	.1582678+00	.1260265-01	-.4241677-02	-.2869178-01
131	.9244667+00	.1952217+00	.3078663+00	.5235779-02	-.8094723-02	-.1235626-01
132	.9542203+00	-.1518023+00	.3134006+00	-.4579874-02	-.8160528-02	.9769798-02
133	.5374814+00	-.4272862+00	.1722891+00	-.1225248-01	-.4408573-02	.2733448-01
134	-.1307203+00	-.5023229+00	-.4943816-01	-.1419142-01	.1405546-02	.3211726-01
135	-.7376999+00	-.3418379+00	-.2480172+00	-.9489042-02	.6561050-02	.2188238-01
136	-.9994204+00	-.2092713-01	-.3305230+00	-.3472504+03	.8645368-02	.1414948-01
137	-.7933485+00	.3102027+00	-.2583710+00	.8956030-02	.6683799-02	-.1970728-01
138	-.2159462+00	.4965524+00	-.6532793-01	.1406876-01	.1594302-02	-.3159396-01
139	.46256603+00	.4509233+00	.1582852+00	.1259868-01	-.4241862-02	-.2869217-01
140	.9247248+00	.1946142+00	.3078310+00	.5233128-02	-.8093784-02	-.1235529-01
141	.9542175+00	-.1524572+00	.3133300+00	-.4581808-02	-.8159064-02	.9773550-02
142	.5372095+00	-.4278894+00	.1721982+00	-.1225451-01	-.4406651-02	.2733489-01
143	-.1311543+00	-.5028064+00	-.4957183-01	-.1419319-01	.1408222-02	.9211417-01
144	-.7382214+00	-.3421466+00	-.2481699+00	-.9489737-02	.6564340-02	.2187991-01
145	-.1000000+01	-.2104412-01	-.3306772+00	-.3467086-03	.8648825-02	.1415394-02
146	-.3015861-03	.2935291-03	.5430541-03	-.1133800-04	-.1425621-04	.1235063-04
147	.2172659-03	.3785505-03	.3845296-03	-.1433018-04	.1131492-04	.1234427-04
148	.3024926-01	-.1407315-03	.3656955-03	.1125077-04	.1435236-04	.1235364-04
149	-.2171658-03	-.2262386-03	.5241404-03	.1431654-04	-.1120668-04	.1236432-04
150	-.7908940-04	.1471124-03	.5773705-03	-.1121370-04	-.1427244-04	.1236235-04

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151	.3998859-04	.1854598-03	.3579523-03	-.1426630-04	.1123836-04	.1234615-04
152	.7891252-04	.6646229-04	.3317616-03	.1123147-04	.1428290-04	.1233677-04
153	-.3980807-04	.2762447-04	.5508758-03	.1427872-04	-.1119479-04	.1235744-04
154	.1639511-03	-.1318730-03	.4592538-03	-.1069446-04	-.1447415-04	.1311735-04
155	.1280671-03	-.1178050-03	.4568807-03	-.1112102-04	-.1440461-04	.1323179-04
156	.5604168-04	-.6580047-04	.4550514-03	-.1135448-04	-.1449343-04	.1327858-04
157	-.6234010-04	.2699913-04	.4547214-03	-.1135049-04	-.1452488-04	.1329269-04
158	-.1863841-03	.1242691-03	.4544128-03	-.1145165-04	-.1455423-04	.1317190-04
159	-.2843425-03	.2126701-03	.4668730-03	-.1144023-04	-.1453041-04	.1316510-04
160	-.1451125-03	.3277931-03	.4602402-03	-.1716978-04	-.6836270-05	.1316856-04
161	.3275460-04	.3583032-03	.4521643-03	-.1831901-04	.2674714-05	.1316637-04
162	.2043259-03	.2973322-03	.4454740-03	-.1464230-04	.1156960-04	.1197516-04
163	.3192311-03	.1544949-03	.4409659-03	-.6860693-05	.1729828-04	.1064275-04
164	.3543776-03	-.3289932-04	.4399022-03	.2764101-05	.1861951-04	.2542843-05
165	.2889415-03	-.2069868-03	.4432149-03	.1166830-04	.1471577-04	.3111998-08
166	.1464877-03	-.3219064-03	.4497772-03	-.1732422-04	.6887404-05	.2867462-06
167	-.3215746-04	-.3365631-03	.4567763-03	.1791772-04	-.2550666-05	.1240199-04
168	-.2014942-03	-.2734812-03	.4641130-03	.1419501-04	-.1117726-04	.1243161-04
169	-.3166564-03	-.1342245-03	.4689065-03	.6655453-05	-.1680658-04	.1241887-04
170	-.3467803-03	.4392906-04	.4698846-03	-.2690001-05	-.1793425-04	.1238008-04
171	-.9831170-04	.3502674-03	-.1518287-03	-.6827619-05	-.1016243-04	.6731302-05
172	-.2313466-03	.8483917-04	-.1623987-03	.9298621-05	-.7934348-05	.6774060-05
173	.7542045-04	.2667138-03	-.1525243-03	-.6829578-05	-.1021872-04	.6730978-05
174	.2379034-03	.3409000-04	-.2237024-03	-.1095740-04	.5695381-05	.6845793-05
175	-.3411942-04	-.1723764-03	-.2425340-03	.8930224-05	.1061559-04	.7764388-05
176	.3000488-03	.1717063-03	-.2320056-03	-.1121464-04	.7519383-05	.7873900-05
177	-.3265784-03	-.2735582-04	-.1559204-03	.8625427-05	-.1019862-04	.7844877-05
178	.9889757-04	-.2856215-03	-.2436824-03	.7723950-05	.1006571-04	.7697210-05
179	.1361382-03	-.3250586-03	-.2335342-03	.7722105-05	.9920744-05	.4039007-05
180	-.3481193-03	-.1134312-03	-.1696128-03	.9777449-05	-.8678957-05	.3988402-05
181	-.1360662-03	.3707997-03	-.1624384-03	-.8292887-05	-.1032165-04	.4034453-05
182	.3478932-03	.1588300-03	-.2263157-03	-.1038334-04	.8212974-05	.4019600-05
183	.2418668-03	-.4048980-03	-.2415489-03	.8103357-05	.1013797-04	.6897279-05
184	-.4361555-03	-.2106368-03	-.1618902-03	.9862766-05	-.8415863-05	.6862390-05
185	-.2418781-03	.4673501-03	-.1541713-03	-.8635223-05	-.1018077-04	.6887396-05
186	.4361243-03	.2730875-03	-.2338352-03	-.1039082-04	.8396916-05	.6944688-05
187	.1921138-03	-.3661518-03	-.2385079-03	.8330189-05	.1016585-04	.7286474-05
188	-.3951587-03	-.1631112-03	-.1643868-03	-.1012710-04	-.8372149-05	.7284263-05
189	-.1920548-03	.4241397-03	-.1572294-03	-.8396450-05	-.1015326-04	.7278083-05
190	.3951547-03	.2210649-03	-.2313347-03	-.1018594-04	.8368594-05	.7280064-05
191	.1469980-03	-.1222932-03	-.1981119-03	-.4464739-04	.1018507-04	.7690202-06
192	.9247851-04	-.3091526-03	-.1980861-03	.3008010-05	.1016956-04	.7005999-05
193	-.1331030-04	-.2460401-03	-.1981322-03	.5265500-05	.1017960-04	.5784683-05

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VIBRATIONAL MODE
EIGENVALUE = .5143013*05, FREQ = 36.0935 HZ ID = 2 / 1 / 8

JOINT	1	2	3	4	5	6
1	.1301435+00	.1529766-02	.3854269-01	-.5447582-04	-.1007028-01	.2070087-04
2	.1103652+00	-.6223793-01	.2389477-01	-.5131746-02	-.8931419-02	.3799677-03
3	.6170678-01	-.1078226+00	-.1682531-01	-.9001748-02	-.5285665-02	.3774849-03
4	-.7541600-03	-.1239577+00	-.7511514-01	-.1056714-01	.2522731-03	-.8193728-04
5	-.6133314-01	-.1071967+00	-.1329284+00	-.9148761-02	.5476516-02	-.1749797-03
6	-.1056353+00	-.6233192-01	-.1752617+00	-.5252971-02	.9286672-02	-.7568500-04
7	-.1222537+00	-.1093286-02	-.1906736+00	.5433841-05	.1070301-01	.1862813-04
8	-.1069453+00	.6049627-01	-.1746761+00	.5346718-02	.9234592-02	.1165253-03
9	-.6361645-01	.1063223+00	-.1319141+00	.9205049-02	.5383431-02	.2145553-03
10	-.3387218-02	.1243985+00	-.7394281-01	.1056912-01	.1449817-03	.1195754-03
11	-.5943888-01	.1095754+00	-.1580084-01	.8948313-02	-.5383571-02	-.3409682-03
12	.1090669+00	.6494659-01	.2448532-01	.5037918-02	-.8987612-02	-.3390322-03
13	.2304362+00	-.1079541-02	.5336294+00	-.6449949-03	-.2242491-01	.7451948-03
14	.7007861+00	-.1175999+00	.5026008+00	-.1266714-01	-.2102726-01	.1984657-03
15	-.1189496+00	-.2041229+00	.4236335+00	-.2190910-01	-.1296751-01	.9226263-04
16	-.1043140-02	-.2353026+00	.3174992+00	-.2507677-01	-.6812522-05	-.1261349-05
17	-.1208262+00	-.2022011+00	.2138821+00	-.2134871-01	.1331923-01	.2966048-03
18	-.2019988+00	-.1156614+00	.1381897+00	-.1164267-01	.2215726-01	-.6772506-05
19	-.2270365+00	-.1996707-02	.1129767+00	.1133294-02	.2483683-01	-.4218034-03
20	-.2001783+00	.1134190+00	.1386038+00	.1361816-01	.2102723-01	-.2015320-03
21	-.1186170+00	.2017140+00	.2149374+00	.2255958-01	.1147775-01	.9053201-04
22	-.7201275-03	.2367941+00	.3195057+00	.2554997-01	-.1133425-02	.1498564-03
23	.1212596+00	.2066785+00	.4262497+00	.2170821-01	-.1364559-01	.1258260-04
24	.2104880+00	.1183870+00	.5051699+00	.1195231-01	-.2273052-01	-.1020884-03
25	.2636707+00	.4417403-03	-.2428568+00	-.5918893-04	-.1232016-01	-.4579281-04
26	.2285929+00	-.1318008+00	-.2558158+00	-.6249743-02	-.1067945-01	-.3257466-04
27	.1322231+00	-.2287085+00	-.2905218+00	-.1077119-01	-.6146933-02	-.4340547-04
28	.4353326-03	-.2643219+00	-.3377962+00	-.1241587-01	.2242462-04	-.6852943-04
29	-.1114531+00	-.2290869+00	-.3849390+00	-.1072101-01	.6250034-02	-.7579865-04
30	-.2280159+00	-.1324752+00	-.4192830+00	-.6146276-02	.1071077-01	-.7921147-04
31	-.2635678+00	-.3482384-03	-.4316890+00	.5459277-04	.1227775-01	.7971176-04
32	-.2284449+00	.1318485+00	-.4186996+00	.6249860-02	.1065918-01	.4298997-04
33	-.1320900+00	.2287205+00	-.3840246+00	.1077121-01	.5114874-02	.5420746-04
34	-.3905365-03	.2643494+00	-.3368045+00	.1240656-01	-.7438088-04	.1129080-03
35	.1314851+00	.2291656+00	-.2896889+00	.1071772-01	-.6273044-02	.8637852-04
36	.2280951+00	.1325861+00	-.2553325+00	.6147748-02	-.1073417-01	.7733671-04
37	.1150746+00	-.2501720-02	-.7405267-01	.5530735-04	.1098471-01	.1854218-04
38	.3064525+00	.1348287-02	-.7677670-01	-.4338595-03	.3701732-01	-.7794358-03
39	.2882212+00	-.1086152+00	-.7693582-01	-.1463699-02	.3484557-01	-.9942786-03
40	.2352495+00	-.2054239+00	-.7706529-01	-.2330447-02	.2861826-01	-.1082656-02
41	.1538236+00	-.2774135+00	-.7719412-01	-.2937619-02	.1907329-01	-.1032504-02
42	.5384537-01	-.3158982+00	-.7736372-01	-.3211560-02	.7345993-02	-.8504743-03
43	-.5281176-01	-.3162198+00	-.7759780-01	-.3109201-02	-.5159808-02	-.5608228-03
44	-.1532333+00	-.2783157+00	-.7787692-01	-.2627104-02	-.1693593-01	-.2013814-03
45	-.2352670+00	-.2067377+00	-.7813265-01	-.1809145-02	-.2655137-01	.1822570-03
46	-.2889592+00	-.1101129+00	-.7826886-01	-.7489632-03	-.3283000-01	.5431327-03
47	-.3077833+00	-.1072017-03	-.7820597-01	.4174721-03	-.3500047-01	.8389356-03
48	-.2894474+00	.1099872+00	-.7792575-01	.1531923-02	-.3279577-01	.1036730-02
49	-.2361790+00	.2068669+00	-.7748824-01	.2442984-02	-.2648756-01	.1115736-02
50	-.1544507+00	.2708347+00	-.7700901-01	.3033366-02	-.1685116-01	.1068347-02

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51	-.5418069-01	.3172156+00	-.7661051-01	.3237339-02	-.5065009-02	.8999371-03
52	.5249253-01	.3173996+00	-.7637536-01	.3044570-02	.7439153-02	.6283298-03
53	.1526969+00	.2793882+00	-.7632366-01	.2493736-02	.1915390-01	.2828909-03
54	.2393837+00	.2077833+00	-.7641830-01	.1661002-02	.2867736-01	-.9730132-04
55	.2877631+00	.1112249+00	-.7659116-01	.6471059-03	.3487679-01	-.4668748-03
56	.1825855+00	.5890980-02	-.1872329+00	-.5891763-04	.5217052-02	.1090647-03
57	.1727238+00	-.5780373-01	-.1811139+00	.1670543-02	.4913215-02	.7068257-04
58	.1420560+00	-.1143193+00	-.1626198+00	.3197919-02	.4022903-02	.3570177-04
59	.9425953-01	-.1568533+00	-.1339885+00	.4388219-02	.2653943-02	.9990400-05
60	.3505431-01	-.1602767+00	-.9668538-01	.4953600-02	.9721852-03	-.2784007-05
61	-.2845224-01	-.1817510+00	-.6097960-01	.4970325-02	-.8188116-03	-.2231273-05
62	-.8861373-01	-.1610752+00	-.2542379-01	.4387610-02	-.2502727-02	.8797297-05
63	-.1381544+00	-.1207204+00	.3699263-02	.3277103-02	-.3676806-02	.2583872-04
64	-.1710533+00	-.6554418-01	.2289084-01	.1773428-02	-.4776184-02	.4517695-04
65	-.1832938+00	-.2210621-02	.2985097-01	.5746637-04	-.5093302-02	.6554187-04
66	-.1733748+00	.6161757-01	.2374746-01	-.1665209-02	-.4790362-02	.8778606-04
67	-.1425064+00	.1102157+00	.5312278-02	-.3188294-02	-.3903646-02	.1128220-03
68	-.9445479-01	.1607428+00	-.2324390-01	-.4328803-02	-.2539310-02	.1394045-03
69	-.3506418-01	.1840731+00	-.5849106-01	-.4948819-02	-.8610407-03	.1634685-03
70	.2847319-01	.1854115+00	-.9618614-01	-.4972442-02	.9292442-03	.1793629-03
71	.8849651-01	.1646207+00	-.1317817+00	-.4395635-02	.2615559-02	.1822279-03
72	.1377946+00	.1242256+00	-.1609762+00	-.3287287-02	.3994022-02	.1700376-03
73	.1704600+00	.6910265-01	-.1802375+00	-.1781009-02	.4897711-02	.1442079-03
74	.3448773-01	.6628738-02	-.2655259+00	-.5219006-04	.6333397-02	.9872496-04
75	.3360533-01	-.5953158-02	-.2548685+00	.2023679-02	.5971636-02	.8770707-04
76	.2865902-01	-.1746640-01	-.2230722+00	.3856644-02	.4901706-02	.7666193-04
77	.2025214-01	-.2652674-01	-.1739587+00	.5225744-02	.3251922-02	.6739333-04
78	.9397325-02	-.3204871-01	-.1134396+00	.5965429-02	.1220619-02	.6163832-04
79	-.2605056-02	-.3336362-01	-.4880908-01	.5985729-02	-.9475137-03	.6043074-04
80	-.1431769-01	-.3031762-01	.1213475-01	.5283420-02	-.2990839-02	.6376277-04
81	-.2433353-01	-.2327274-01	.6203128-01	.3942683-02	-.4662377-02	.7073943-04
82	-.3144324-01	-.1307370-01	.9484905-01	.2125157-02	-.5759793-02	.8010887-04
83	-.3478380-01	-.9481129-03	.1066186+00	.5052680-04	-.6150099-02	.9062345-04
84	-.3394617-01	.1164121-01	.9591663-01	-.2030083-02	-.5786000-02	.1010738-03
85	-.2902636-01	.2317619-01	.6404022-01	-.3864788-02	-.4711745-02	.1103234-03
86	-.2061500-01	.3226064-01	.1484830-01	-.5231825-02	-.3057675-02	.1174094-03
87	-.9726659-02	.379632-01	-.4571064-01	-.5966602-02	-.1024128-02	.1216721-03
88	.2322049-02	.3911318-01	-.1103240+00	-.5981447-02	.1143158-02	.1227840-03
89	.1407199-01	.3605172-01	-.1712015+00	-.5275677-02	.3182939-02	.1207530-03
90	.2409908-01	.2898283-01	-.2210136+00	-.3935109-02	.4849892-02	.1158270-03
91	.3118903-01	.1876281-01	-.2537684+00	-.2121297-02	.5943832-02	.1083461-03
92	-.1107323+00	.6409577-02	-.3156637+00	-.5403466-04	.6690520-02	.1005490-03
93	-.1031981+00	.4383490-01	-.3021571+00	.2115762-02	.6314974-02	.1008430-03
94	-.8326098-01	.7643326-01	-.2618803+00	.4032244-02	.5194591-02	.9811092-04
95	-.5328114-01	.1002767+00	-.1996642+00	.5464562-02	.3463396-02	.9273572-04
96	-.1683771-01	.1124784+00	-.1229876+00	.6239437-02	.1329150-02	.8621684-04
97	.2169045-01	.1115456+00	-.4108406-01	.6262286-02	-.9513282-03	.8060085-04
98	.5764729-01	.9756858-01	.3616564-01	.5528947-02	-.3102899-02	.7793482-04
99	.8666379-01	.7221837-01	.9942487-01	.4126708-02	-.4865264-02	.7956988-04
100	.1051961+00	.3855185-01	.1410343+00	.2224354-02	-.6024643-02	.8558799-04

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101	.1109704+00	.6446151-03	.1559482+00	.5208930-04	-.6440087-02	.9447422-04
102	.1032762+00	-.3690607-01	.1423568+00	-.2126455-02	-.6061029-02	.1033711-03
103	.8306301-01	-.6954704-01	.1019111+00	-.4046752-02	-.4933672-02	.1092508-03
104	.5281832-01	-.9333057-01	.3951982-01	-.5476178-02	-.3195256-02	.1102653-03
105	.1624465-01	-.1053973+00	-.3725678-01	-.6242698-02	-.1056905-02	.1068492-03
106	-.2221716-01	-.1043175+00	-.1121372+00	-.6255561-02	.1222599-02	.1015253-03
107	-.5794101-01	-.9025041-01	-.1962506+00	-.5515376-02	.3368538-02	.9742779-04
108	-.8666733-01	-.6490961-01	-.2593250+00	-.4112754-02	.5123283-02	.9648837-04
109	-.1049897+00	-.3134759-01	-.3007887+00	-.2216579-02	.6276665-02	.9829956-04
110	-.2722030+00	.6110970-02	-.3522892+00	-.6082452-04	.7246372-02	.1041219-03
111	-.2552907+00	.9877172-01	-.3367884+00	.2159268-02	.6846402-02	.1104312-03
112	-.2076750+00	.1800845+00	-.2903836+00	.4121316-02	.5651299-02	.1110526-03
113	-.1350074+00	.2402540+00	-.2186339+00	.5588944-02	.3803775-02	.1060304-03
114	-.4597248-01	.2720044+00	-.1301585+00	.6384513-02	.1525348-02	.9690524-04
115	.4874093-01	.2714635+00	-.3560724-01	.6410896-02	-.9099997-03	.8663025-04
116	-.1377061+00	.2386443+00	.5361622-01	.5663081-02	-.3208511-02	.7938498-04
117	.2101260+00	.1774654+00	.1267230+00	.4229609-02	-.5091936-02	.7882750-04
118	.2571602+00	.9529829-01	.1748527+00	.2282889-02	-.6331461-02	.8594382-04
119	.2730413+00	.2084204-02	.1921599+00	.5861579-04	-.6776050-02	.9828271-04
120	.2558111+00	-.9087726-01	.1765391+00	-.2172851-02	-.6371398-02	.1109741-03
121	.2075860+00	-.1723155+00	.1298898+00	-.4140053-02	-.5166907-02	.1184764-03
122	-.1342921+00	-.2323765+00	.5788218-01	-.5604270-02	-.3309546-02	.1169661-03
123	.4490384-01	-.2638320+00	-.3074556-01	-.6389173-02	-.1025383-02	.1071756-03
124	-.4971450-01	-.2622462+00	-.1252689+00	-.6402320-02	.1408773-02	.9461951-04
125	-.1381737+00	-.2298962+00	-.2142934+00	-.5645269-02	.3699620-02	.8641701-04
126	-.2099212+00	-.1687118+00	-.2871275+00	-.4211255-02	.5572626-02	.8698607-04
127	-.2564429+00	-.8676436-01	-.3350420+00	-.2272559-02	.6803979-02	.9464299-04
128	-.4825323+00	-.3583003-02	-.6425880+00	.3085477=03	.1165431-01	.7152708-04
129	-.4559269+00	.1613133+00	-.6062308+00	.4221838-02	.1084121-01	.8781615-04
130	-.3744905+00	.3072389+00	-.5111470+00	.7632373=02	.8728411-02	.8901154-04
131	-.2478083+00	.4165998+00	-.3687125+00	.1012719-01	.5568288-02	.7973246-04
132	-.9107598-01	.4761549+00	-.1960507+00	.1140284=01	.1740371-02	.6965970-04
133	.7683063-01	.4786642+00	-.1396060-01	.1130457-01	-.2294307-02	.5445634-04
134	.2357114+00	.4237404+00	.1556057+00	.9842023-02	-.6049374-02	.4081920-04
135	.3663360+00	.3179318+00	.2921572+00	.7188176-02	-.9070955-02	.3380931-04
136	.4527803+00	.1739601+00	.3791397+00	.3661796-02	-.1099225-01	.4170023-04
137	.4843655+00	.9231642-02	.4059790+00	-.3114659-03	-.1157920-01	.6264024-04
138	.4571720+00	-.1562730+00	.3693680+00	-.4249722-02	-.1075914-01	.8387457-04
139	.3745381+00	-.3024763+00	.2737252+00	-.7672017-02	-.8631079-02	.9889357-04
140	.2465985+00	-.4116627+00	.1306871+00	-.1016060-01	-.5454495-02	.9737046-04
141	.8908924-01	-.4706706+00	-.4235047-01	-.1141490-01	-.1616492-02	.7652173-04
142	-.7874525-01	-.4724953+00	-.2244103+00	-.1128950-01	.2417237-02	.4575758-04
143	-.2366521+00	-.4170821+00	-.3935517+00	-.9806685-02	.6160739-02	.2596951-04
144	-.3659063+00	-.3112192+00	-.5294753+00	-.7149141-02	.9165296-02	.3051679-04
145	-.4512580+00	-.1676508+00	-.6159271+00	-.3636041-02	.1107218-01	.5006829-04
146	-.1314538+00	-.1852822-02	.4883723+00	-.2684419-03	-.2769825-01	-.1331246-03
147	-.1020766-02	-.1317481+00	.3152361+00	-.2760602-01	.2227269-03	-.1379716-04
148	-.1318429+00	.1682761-02	.1460222+00	.2803229-03	.2750596-01	.1404379-03
149	.5952497-03	.1332424+00	.3189564+00	.2750053-01	-.3938212-03	.2270063-03
150	.5650551+00	-.5538587-02	.5538713+00	-.4327262-03	-.2760139-01	.2132925-03

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151	-.5785366-02	-.5651112+00	.3138099+00	-.2768039-01	.3180551-03	.1345556-03
152	-.5651229+00	.3902021-02	.7932400-01	.1486070-03	.2759519-01	.6063095-04
153	.3032852-02	.5626652+00	.3177863+00	.2738492-01	-.1211123-03	.6453240-04
154	.1000000+01	.5154268-03	.3193076+00	.8204286-04	-.2698109-01	-.1656158-03
155	.9376027+00	-.6579835-02	.3170166+00	-.1903488-03	-.2696806-01	-.1621293-03
156	.8003518+00	-.1475219-01	.3135579+00	-.6014244-03	-.2705986-01	.5653200-04
157	.5853368+00	-.1946669-01	.3057983+00	-.1348833-02	-.2775172-01	.2578070-03
158	.3418309+00	-.2246360-02	.3143477+00	-.2728743-03	-.2764291-01	.2998857-03
159	.1591674+00	-.5224647-04	.3398495+00	-.2752163-03	-.2736915-01	.3325665-03
160	.1352460+00	-.7706312-01	.3391556+00	-.1409168-01	-.2373582-01	.3181507-03
161	.8023940-01	-.1381430+00	.3279546+00	-.2382612-01	-.1338016-01	.2673075-03
162	-.5900915-03	-.1513521+00	.3172904+00	-.2775841-01	.2800877-03	.2756024-03
163	-.6817524-01	-.1185158+00	.3055741+00	-.2432164-01	.1440076-01	.2458919-03
164	-.1613535+00	-.9103241-01	.2983864+00	-.1296486-01	.2290685-01	.5859514-04
165	-.1808158+00	.1852644-02	.2952383+00	.2237361-03	.2659796-01	.2556960-07
166	-.1506897+00	.8902036-01	.2979029+00	.1374377-01	.2333777-01	.2362780-05
167	-.8200876-01	.1449021+00	.3054105+00	.2375734-01	.1338830-01	.1386952-03
168	.1392776-02	.1664965+00	.3171423+00	.2737777-01	-.4569583-03	.1495704-03
169	.8427967-01	.1433293+00	.3287674+00	.2364297-01	-.1420388-01	.2433136-04
170	.1445078+00	.8179436-01	.3372108+00	.1352048-01	-.2417955-01	-.1174211-03
171	-.4438443-03	-.2753235+00	-.3383073+00	-.1401719-01	.1253577-04	.7476073-04
172	.4437025+00	-.5466207-01	-.2751601+00	-.1766175-02	-.1396286-01	.4621443-04
173	-.1351067-03	-.4468871+00	-.3381533+00	-.1402545-01	.1177830-03	.7575708-04
174	-.4440802+00	-.5423585-01	-.4003013+00	-.1629642-02	.1385117-01	-.6577936-05
175	-.6700332-05	.4254962+00	-.3394723+00	.1244999-01	-.2751282-04	.1595921-06
176	-.2711990+00	-.3411202-01	-.3956520+00	-.1562676-02	.1285549-01	-.8817438-04
177	.2712352+00	-.3296863-01	-.2799016+00	-.1654663-02	-.1245376-01	-.1337099-04
178	-.3709828-03	.2736445+00	-.3372524+00	.1288662-01	-.1088014-03	.9362164-04
179	-.6692360-03	.2263166+00	-.3373322+00	.1295061-01	-.5280092-04	-.7842568-04
180	.2265222+00	.6134126-03	-.2922661+00	-.2736007-04	-.1282371-01	.7514569-05
181	.5366160-03	-.2262845+00	-.3378100+00	-.1299178-01	.5580698-04	.7266630-04
182	-.2265912+00	-.5981251-03	-.3828379+00	.2435481-04	.1280581-01	-.6861768-05
183	-.1322401-02	.9439640-01	-.3372226+00	.1275042-01	-.8228114-04	-.1601377-04
184	.9435985-01	.1316667-02	-.2826287+00	-.5060915-04	-.1275117-01	.2868284-04
185	.1298536-02	-.9434169-01	-.3378094+00	-.1276829-01	.4694865-04	-.3722743-05
186	-.9440169-01	-.1304338-02	-.3923988+00	.4211766-04	.1271762-01	-.2848838-04
187	-.9833572-03	.1569468+00	-.3372505+00	.1276091-01	-.7336906-04	.1627879-05
188	.1569303+00	.9919797-03	-.2864782+00	-.6508001-04	-.1276693-01	.3961498-05
189	.9695201-03	-.1569154+00	-.3377960+00	-.1276648-01	.6312983-04	.6499485-05
190	-.1569261+00	-.9608961-03	-.3885636+00	.7050695-04	.1274998-01	.3948188-05
191	-.6517794-03	.8532797-01	-.3378689+00	.3952220-01	-.6244816-04	-.3966266-03
192	-.3235596-03	.2795193+00	-.3377387+00	.1935951-01	-.5931129-04	.5248676-05
193	.2715449-03	.4308962+00	-.3378959+00	.1496977-01	-.5992118-04	.3904635-04

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VIBRATIONAL MODE. IO= 27 / 9
EIGENVALUE= .1105460+06, FREQ= 52.9166 HZ

JOINT	1	2	3	4	5	6
1	.8124757-02	.8351764-01	-.6831573-02	-.1177821-01	-.1563798-03	-.3856461-02
2	.6792388-01	.6373457-01	-.7111874-01	-.9926025-02	.6433745-02	-.3518558-02
3	.1126064+00	.1543688-01	-.1168755+00	-.5554642-02	.1079162-01	-.9212458-02
4	.1283229+00	-.4886266-01	-.1312875+00	.4062751-03	.1168464-01	-.4130402-02
5	.1089347+00	-.1121963+00	-.1118204+00	-.6070376-02	.9527753-02	-.3962185-02
6	.5938074-01	-.1570798+00	-.6492637-01	.1007717-01	.5492747-02	-.3886966-02
7	-.8363377-02	-.1705832+00	-.2009590-02	.1163973-01	-.2230605-03	-.3338064-02
8	-.7389107-01	-.1486897+00	.6023098-01	.9856464-02	-.5876191-02	-.3867228-02
9	-.1173382+00	-.9760938-01	.1053481+00	.5676389-02	-.9754844-02	-.3967650-02
10	-.1282591+00	-.3209149-01	.1222155+00	-.4988624-04	-.1168482-01	-.4145584-02
11	-.1041034+00	.2990905-01	.1052655+00	-.5938419-02	-.1055152-01	-.4212529-02
12	-.5345685-01	.7204094-01	.5778265-01	-.1011250-01	-.6020961-02	-.3455195-02
13	-.5582176-02	-.5407655-01	-.8038181-02	-.3400129-01	.2942241-02	-.9683675-03
14	-.5296864-02	-.5290159-01	-.1166866+00	-.2977469-01	.1010730-01	-.1586133-02
15	-.3217538-01	-.3679201-01	-.1935980+00	-.1769088-01	.2582627-01	-.1455332-02
16	-.4594862-01	-.1522636-01	-.2180677+00	.5701068-03	.3156093-01	-.1357012-02
17	-.4222538-01	.8131162-02	-.1853216+00	.1829694-01	.2475081-01	-.3042752-02
18	-.1699975-01	.2215271-01	-.1091907+00	.2796302-01	.1187156-01	-.3325856-02
19	.4147269-02	.2933781-01	-.1105841-01	.2948671-01	-.3733965-02	-.2826546-02
20	.2405605-01	.3001446-01	.8790377-01	.2313588-01	-.1785489-01	-.2049592-02
21	.4462516-01	.2217901-01	.1633720+00	.9836241-02	-.2722255-01	-.1522271-02
22	.5858577-01	-.4570696-04	.1970083+00	-.6807373-02	-.2949795-01	-.1395692-02
23	.5123496-01	-.2822506-01	.1730906+00	-.2244301-01	-.2372541-01	-.1054522-02
24	.2373399-01	-.4870602-01	.9613544-01	-.3247864-01	-.1107551-01	-.4036949-03
25	.42004186-02	.1153436+00	.1622962-02	-.1044914-01	.4170425-03	-.3436178-02
26	.7408289-01	.9435785-01	-.3728363-01	-.8836511-02	.5609643-02	-.3418878-02
27	.1240911+00	.4131145-01	-.6489465-01	-.4853581-02	.9243574-02	-.3413650-02
28	.1408149+00	-.2954407-01	-.7388290-01	.4239219-03	.1041736-01	-.3387117-02
29	.1198188+00	-.9926075-01	-.6184025-01	.5588267-02	.8828604-02	-.3381532-02
30	.6675395-01	-.1491681+00	-.3201146-01	.9258087-02	.4857351-02	-.3374598-02
31	-.4204945-02	-.1658841+00	.7631149-02	.1045567-01	-.3996555-03	-.3365242-02
32	-.7404934-01	-.1449451+00	.4645285-01	.8854291-02	-.5572640-02	-.3356905-02
33	-.1240776+00	-.2194346-01	.7408705-01	.4879463-02	-.9234692-02	-.3354323-02
34	-.1408401+00	-.2109143-01	.8312384-01	-.3918743-03	-.1040182-01	-.3410083-02
35	-.1198541+00	.4864783-01	.7106389-01	-.5559419-02	-.8836418-02	-.3393535-02
36	-.6682202-01	.9860133-01	.4127038-01	-.9245447-02	-.4889110-02	-.3397426-02
37	-.1359013-01	-.3852814+00	-.4516607-02	.1198636-01	-.2376203-03	-.3902811-02
38	.4058104-02	-.9838900-01	-.6973464-02	-.5606395-02	.3899154-04	-.3111275-04
39	-.2881690-01	-.9343868-01	-.2123295-01	-.5157718-02	-.8336940-02	.2030508-03
40	-.5814375-01	-.7632037-01	-.3377786-01	-.4143745-02	-.1572930-01	.4761918-03
41	-.8034676-01	-.4908875-01	-.4319732-01	-.2640237-02	-.2127500-01	.7624102-03
42	-.9276695-01	-.1501532-01	-.4831938-01	-.7772945-03	-.2429348-01	.1031227-02
43	-.9397766-01	.2179992-01	-.4836959-01	.1251945-02	-.2437478-01	.1249431-02
44	-.8392826-01	.5691858-01	-.4313865-01	.3199936-02	-.2145096-01	.1385298-02
45	-.6390697-01	.8609834-01	-.3310382-01	.4796189-02	-.1583195-01	.1414793-02
46	-.3634564-01	.1058076+00	-.1944278-01	.5797348-02	-.8187477-02	.1327967-02
47	-.4512222-02	.1136571+00	-.3904704-02	.6040403-02	.5308766-03	.1133251-02
48	.2785814-01	.1086935+00	.1144933-01	.5481122-02	.9218526-02	.8576073-03
49	.5695891-01	.9151804-01	.2458055-01	.4205541-02	.1677493-01	.5417590-03
50	.7931945-01	.6421207-01	.3380350-01	.2411465-02	.2226017-01	.2316194-03

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51	.9220586-01	.3008186-01	.3803728-01	.3650616-03	.2502153-01	-.3114226-04
52	.9397377-01	-.6746159-02	.3692301-01	-.1654336-02	.2476957-01	-.2161746-03
53	.8431319-01	-.4162757-01	.3079718-01	-.3403690-02	.2159261-01	-.3072927-03
54	.6433041-01	-.7093732-01	.2055611-01	-.4705870-02	.1591898-01	-.3013634-03
55	.3643783-01	-.9057662-01	.7473205-02	-.5455280-02	.8443643-02	-.2049973-03
56	.5624259-02	.6270628-01	-.9446716-02	.6746246-03	.4369109-04	.5410404-02
57	-.1298213-01	.6374215-01	-.4407212-02	.6584203-03	-.2185051-03	.5412777-02
58	-.3018798-01	.7134978-01	.1774707-03	.5541646-03	-.4508468-03	.5438743-02
59	-.4400584-01	.8466665-01	.3710915-02	.3806276-03	-.6223684-03	.5478680-02
60	-.5277223-01	.1021601+00	.5276519-02	.1660866-03	-.7130518-03	.5519039-02
61	-.5534653-01	.1217775+00	.6183213-02	-.5855074-04	-.7159213-03	.5548119-02
62	-.5128767-01	.1411669+00	.4961103-02	-.2658255-03	-.6360198-03	.5560726-02
63	-.4096872-01	.1579542+00	.2320827-02	-.4351731-03	-.4872779-03	.5559564-02
64	-.2558656-01	.1700459+00	-.1401266-02	-.5533185-03	-.2888433-03	.5552916-02
65	-.7039567-02	.1759140+00	-.5791902-02	-.6125616-03	-.6220937-04	.5549815-02
66	.1232133+01	.1748129+00	-.1039421-01	-.6088630+03	.1702430-03	.5555133-02
67	.3002973-01	.1668869+00	-.1472892-01	-.5399779-03	.3856356-03	.5566847-02
68	.4386268-01	.1531473+00	-.1831672-01	-.4086405-03	.5609429-03	.5576970-02
69	.5214946-01	.1353248+00	-.2071568-01	-.2231591-03	.6743789-03	.5575587-02
70	.5397409-01	.1156261+00	-.2157858-01	-.8236488-06	.7083139-03	.5556119-02
71	.4924663-01	.9644099-01	-.2072196-01	.2319621-03	.6532476-03	.5519294-02
72	.3865284-01	.8004798-01	-.1818552-01	.4426711-03	.5114975-03	.5473796-02
73	.2351776-01	.6835606-01	-.1425721-01	.5986904-03	.2989471-03	.5433153-02
74	.5768642-02	.1858302+00	-.1018196-01	.1461452-02	.7113104-04	.6397034-02
75	.1998437-02	.1844169+00	.5250522-02	.1397520-02	-.4660896-03	.6398421-02
76	-.2080382-02	.1845232+00	.1908057-01	.1164470-02	-.9458795-03	.6408587-02
77	-.6024021-02	.1861635+00	.2963692-01	.7909958-03	-.1310328-02	.6423828-02
78	-.9361250-02	.1891775+00	.3564895-01	.3225752-03	-.1515609-02	.6439101-02
79	-.1164963-01	.1932315+00	.3639731-01	-.1841452-03	-.1537138-02	.6450134-02
80	-.1254906-01	.1978459+00	.3179776-01	-.6681480-03	-.1372435-02	.6454906-02
81	-.1189144-01	.2024487+00	.2240918-01	-.1071277-02	-.1041415-02	.6454179-02
82	-.9727378-02	.2064522+00	.9365501-02	-.1345159-02	-.5840185-03	.6450648-02
83	-.6332067-02	.2093384+00	-.5761332-02	-.1457005-02	-.5541922-04	.6447601-02
84	-.2166245-02	.2107370+00	-.2115061-01	-.1393545-02	.4806549-03	.6447280-02
85	.2200937-02	.2104805+00	-.3495210-01	-.1162586-02	.9596646-03	.6449876-02
86	.6190043-02	.2086245+00	-.4550753-01	-.7918931-03	.1324049-02	.6453130-02
87	.9307866-02	.2054309+00	-.5154706-01	-.3256845-03	.1530026-02	.6453368-02
88	.1121556-01	.2013173+00	-.5233873-01	.1804718-03	.1552699-02	.6447500-02
89	.1175196-01	.1967911+00	-.4777783-01	.6658411-03	.1389048-02	.6435231-02
90	.1091803-01	.1923826+00	-.3880503-01	.1071622-02	.1058481-02	.6419425-02
91	.8846042-02	.1885889+00	-.2534675-01	.1348186-02	.6007235-03	.6405005-02
92	.4585673-02	.2831087+00	-.1080205-01	.1680196-02	.1130459-03	.6762329-02
93	.1529592-01	.2795495+00	.1067247-01	.1603925-02	-.5067935-03	.6761703-02
94	.2415020-01	.2726081+00	.2989739-01	.1336260-02	-.1062008-02	.6761973-02
95	.3008478-01	.2631192+00	.4457526-01	.9085033-03	-.1486549-02	.6762853-02
96	.3238356-01	.2522230+00	.5293785-01	.3704151-03	-.1729306-02	.6764874-02
97	.3075816-01	.2412316+00	.5395575-01	-.2146353-03	-.1760102-02	.6768427-02
98	.2538702-01	.2314735+00	.4747285-01	-.7764062-03	-.1573777-02	.6773215-02
99	.1690710-01	.2241346+00	.3424285-01	-.1246064-02	-.1191575-02	.6777885-02
100	.6347672-02	.2201095+00	.1585333-01	-.1565047-02	-.6592416-03	.6780809-02

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101	-.4996486-02	.2198883+00	-.5461065-02	-.1693116-02	-.4170035-04	.6780896-02
102	-.1573081-01	.2234929+00	-.2709638-01	-.1614147-02	.5851291-03	.6778381-02
103	-.2454825-01	.2304761+00	-.4641102-01	-.1338523-02	.1144267-02	.6774809-02
104	-.3039782-01	.2399830+00	-.6106225-01	-.9014098-03	.1567683-02	.6772205-02
105	-.3260496-01	.2508638+00	-.6929495-01	-.3572902-03	.1804835-02	.6771243-02
106	-.3092740-01	.2618138+00	-.7014380-01	.2276422-03	.1828294-02	.6770904-02
107	-.2556881-01	.2715247+00	-.6353261-01	.7835287-03	.1636361-02	.6769775-02
108	-.1715748-01	.2788334+00	-.5027197-01	.1244448-02	.1252780-02	.6767314-02
109	-.6687150-02	.2828586+00	-.3196168-01	.1555623-02	.7238646-03	.6764307-02
110	.3342078-02	.3797160+00	-.1167710-01	.1799903-02	.1377496-03	.7102493-02
111	.3134522-01	.3735687+00	.1421909-01	.1718141-02	-.5880604-03	.7100794-02
112	.5563277-01	.3582873+00	.3741568-01	.1433097-02	-.1238003-02	.7092420-02
113	.7336451-01	.3356684+00	.5515978-01	.9770828-03	-.1735444-02	.7081058-02
114	.8240574-01	.3083748+00	.6531349-01	.4017074-03	-.2020478-02	.7073110-02
115	.8157402-01	.2796492+00	.6660924-01	-.2261521-03	-.2057020-02	.7073737-02
116	.7082862-01	.2529518+00	.5882624-01	-.8312248-03	-.1838068-02	.7073508-02
117	.5135178-01	.2315477+00	.4284808-01	-.1338716-02	-.1387867-02	.7098136-02
118	.2546587-01	.2180896+00	.2058579-01	-.1684154-02	-.7600836-03	.7110790-02
119	-.3629970-02	.2142638+00	-.5244778-02	-.1822898-02	-.3168718-04	.7115022-02
120	-.3228003-01	.2205511+00	-.3146506-01	-.1736889-02	.7069278-03	.7108653-02
121	-.5689213-01	.2361585+00	-.5484790-01	-.1437744-02	.1364132-02	.7095121-02
122	-.7445120-01	.2591321+00	-.7254350-01	-.9648929-03	.1859530-02	.7082238-02
123	-.8291279-01	.2866361+00	-.8243943-01	-.3786976-03	.2134276-02	.7076562-02
124	-.8138925-01	.3153303+00	-.8339876-01	.2489341-03	.2157473-02	.7079153-02
125	-.7016698-01	.3417762+00	-.7536006-01	.8437131-03	.1928425-02	.7086245-02
126	-.5062750-01	.3628304+00	-.5931721-01	.1336104-02	.1475734-02	.7093119-02
127	-.2510616-01	.3759948+00	-.3720457-01	.1667849-02	.8540264-03	.7098852-02
128	-.1077042-01	.5198746+00	.2427988-01	.1018181-01	-.4914077-03	.7352888-02
129	.5441582-01	.5122757+00	.1815305+00	.9437787-02	-.4013290-02	.7350721-02
130	.1133569+00	.4829979+00	.3179489+00	.7581584-02	-.7066722-02	.7313296-02
131	.1594130+00	.4353602+00	.4173395+00	.4814888-02	-.9290481-02	.7262274-02
132	.1864686+00	.3748210+00	.4675842+00	.1446675-02	-.1041247-01	.7230969-02
133	.1922535+00	.3085006+00	.4621582+00	-.2131788-02	-.1028391-01	.7231217-02
134	.1741067+00	.2443893+00	.4011437+00	-.5486702-02	-.8903904-02	.7263942-02
135	.1343055+00	.1903899+00	.2914990+00	-.8195582-02	-.6427518-02	.7312342-02
136	.7756085-01	.1532735+00	.1463977+00	-.9906997-02	-.3152060-02	.7355637-02
137	.1094403-01	.1377507+00	-.1633674-01	-.1039509-01	.5180885-03	.7374205-02
138	-.5702295-01	.1457561+00	-.1765483+00	-.9594094-02	.4124861-02	.7357823-02
139	-.1176085+00	.1763543+00	-.3143888+00	-.7609746-02	.7218357-02	.7310614-01
140	-.1631924+00	.2254904+00	-.4129809+00	-.4704222-02	.9418370-02	.7257800-02
141	-.1884287+00	.2870002+00	-.4605740+00	-.1252565-02	.1046366-01	.7227484-02
142	-.1907733+00	.3533104+00	-.4518265+00	.2314605-02	.1024158-01	.7233979-02
143	-.1704855+00	.4164682+00	-.3885600+00	.5568936-02	.8795147-02	.7266709-02
144	-.1302294+00	.4690426+00	-.2786122+00	.8135878-02	.6310554-02	.7302822-02
145	-.7480351-01	.5048963+00	-.1353503+00	.9731705-02	.3088737-02	.7333347-02
146	.1606107-02	.9134396-01	.5275915-02	-.4127673-01	.1777703-02	-.4149605-03
147	.9442916-01	-.3272801-02	-.2414929+00	.1865480-02	.4157918-01	-.2371505-03
148	-.1463245-02	-.9626363-01	.2652013-01	.4180530-01	-.1651204-02	-.2526706-03
149	-.9437730-01	-.1689656-02	.2751093+00	-.1327706-02	-.4171508-01	-.4378440-03
150	-.1829565-01	-.5608738+00	.6094832-02	-.4134946-01	.1227156-02	-.6305447-03

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151	-.5513430+00	.1625077-01	-.3363416+00	.1488320-02	.4106255-01	-.6746122-03
152	.2722104-01	.5473422+00	.3267233-01	.4118020-01	-.1843104-02	-.6582433-03
153	.5582520+00	-.3439527-01	.3740948+00	-.1909012-02	-.4155192-01	-.7190050-03
154	-.4425081-01	-.1000000+01	.5616293-01	-.3293189-01	.1987738-02	-.3646113-02
155	-.5674393-01	-.9875095+00	.4368322-01	-.3553932-01	.2324867-02	-.2399168-02
156	-.5456363-01	-.8096016+00	.4329693-01	-.3558082-01	.2258968-02	-.8799869-03
157	-.5723108-01	-.4944515+00	.5517630-01	-.3337066-01	.3683871-02	-.1238564-03
158	-.4952360-02	-.2170402+00	.1610577-01	-.3989807-01	.1483479-02	-.2025688-02
159	.5407767-02	.5982109-01	.1937062-01	-.4052379-01	.1487745-02	-.2094073-02
160	.3096755-01	.4063563-01	-.2963864-02	-.3379989-01	.2124579-01	-.2187032-02
161	.5588191-01	.2429489-01	-.2021752-01	-.1898664-01	.3584252-01	-.2131765-02
162	.7100021-01	-.4669845-02	-.1877874-01	.1402383-02	.4087537-01	-.1923371-02
163	.8877736-01	-.6105911-01	-.1403686-01	.2238885-01	.3569130-01	-.1706500-02
164	-.6183910-02	.1743245-01	.1425989-02	.3266437-01	.1757570-01	-.4081393-03
165	.3746719-02	.1865171-02	.1733744-01	.3807538-01	-.1105854-02	-.1525927-06
166	-.5287873-02	-.1557043-01	.3408823-01	.3368929-01	-.2078570-01	-.1407108-04
167	-.3628294-01	-.2248385-01	.4807012-01	.1948941-01	-.3700338-01	-.8095734-03
168	-.4237957-01	-.1622087-02	.5189086-01	-.1280678-02	-.4167040-01	-.8640359-03
169	-.3713854-01	.1961689-01	.4628401-01	-.2173473-01	-.3519673-01	-.8407456-03
170	-.2185598-01	.3560311-01	.3272351-01	-.3638529-01	-.1930290-01	-.6731496-03
171	.1328111+00	-.1789678-01	-.4318057-01	.3803387-03	.1063546-01	-.3105577-02
172	-.3882236-01	-.1126095-01	-.2751476-02	-.1049749-01	.1659091-02	-.3110130-02
173	.2711713-02	-.1325477-01	-.4300080-01	.3820421-03	.1059787-01	-.3107164-02
174	.1075207-02	-.1654860-01	.6889019-03	.1058427-01	.8899273-03	-.3110481-02
175	.8189646-03	-.1827157-01	.5293368-01	-.5051764-03	-.1079807-01	-.3520648-02
176	.1352010-01	-.1478246+00	.2107640-02	.1057140-01	.5645090-03	-.3519722-02
177	.2002099-01	.1166167+00	-.2909319-02	-.1021084-01	.1791536-02	-.3564949-02
178	-.1327086+00	-.1068088-01	.5220894-01	-.1889232-03	-.1049559-01	-.3565371-02
179	-.1714477+00	-.5020405-02	.4165783-01	-.2355825-03	-.1045630-01	-.1785977-02
180	.5285431-02	.1611579+00	.3293437-02	-.1042086-01	.5714431-03	-.1809688-02
181	.1714909+00	-.1580675-01	-.3229106-01	.5133550-03	.1064457-01	-.1889247-02
182	-.5224581-02	-.1818314+00	.6072525-02	.1070136-01	-.3701276-03	-.1824466-02
183	-.2818577+00	-.4617244-02	.5009463-01	-.2843929-03	-.1057917-01	-.3140714-02
184	.9588379-02	.2676053+00	.2907852-02	-.1044729-01	.4112830-03	-.3140036-02
185	.2818615+00	-.2379665-01	-.4081788-01	.5264602-03	.1058942-01	-.3133717-02
186	-.9593136-02	-.2960335+00	.6370895-02	.1069202-01	-.4020691-03	-.3134618-02
187	-.2300667+00	-.5588499-02	.4691439-01	-.3875280-03	-.1057039-01	-.3314848-02
188	.7618319-02	.2166666+00	.3029153-02	-.1054418-01	.3998021-03	-.3323833-02
189	.2300658+00	-.2082359-01	-.3763844-01	.4178966-03	.1056745-01	-.3314060-02
190	-.7618162-02	-.2432447+00	.6249602-02	.1057074-01	-.4045238-03	-.3305195-02
191	-.1911194+00	.1866638-02	.4721418-02	.5283980-03	-.1276956-01	-.7975960-04
192	-.1262140+00	.3635800-02	.4718110-02	-.2156547-03	-.1094122-01	-.3190811-02
193	-.1558545-01	-.2494239-03	.4729746-02	-.3590409-03	-.1067335-01	-.2654054-02

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VIBRATIONAL MODE		ID= 2 / 1 / 10				
EIGENVALUE=	.1423053+06, FREQ= 60.0386 HZ					
JOINT	1	2	3	4	5	6
1	-.4087258-03	.3339675-01	.9358590-03	-.4043933-02	-.5325387-05	.2026188-02
2	.5631518-02	.3195933-01	-.2113755-01	-.3537720-02	.1921783-02	.1992369-02
3	.1006960-01	.2771086-01	-.3752228-01	-.2101557-02	.1412791-02	.1996035-02
4	.1153247-01	.2196357-01	-.4395105-01	-.6961770-04	.4114468-02	.2056850-02
5	.9662708-02	.1631561-01	-.3833037-01	.2015587-02	.3708524-02	.2059978-02
6	.5195975-02	.1239891-01	-.2201717-01	.3584651-02	.2140401-02	.2089002-02
7	.4496154-03	.1086614-01	.6801869-03	.4057366-02	.1120830-04	.1774237-02
8	-.4420464-02	.1195019-01	.2341296-01	.3596333-02	-.2120029-02	.2090080-02
9	-.9223190-02	.1554137-01	.3982465-01	.2036154-02	-.3695563-02	.2061648-02
10	-.1154875-01	.2107635-01	.4558278-01	-.4539482-04	-.4112440-02	.2058564-02
11	-.1052956-01	.2695211-01	.3979589-01	-.2081348-02	-.3431718-02	.1995121-02
12	-.6387574-02	.3152900-01	.2300585-01	-.3529432-02	-.1945563-02	.1985022-02
13	.7447960-03	.1011143+00	.8770891-03	-.2095555-02	-.1878467-03	.2940072-02
14	.3632856-01	.9129445-01	-.1181701-01	-.1787815-02	.1664576-02	.2998301-02
15	.6446525-01	.6394122-01	-.2133213-01	-.9594887-03	.2151902-02	.2986525-02
16	.7501406-01	.2640362-01	-.2510432-01	-.9919022-05	.2303658-02	.2986958-02
17	.6435784-01	-.1072013-01	-.2177424-01	.9459222-03	.2168960-02	.3205188-02
18	.3598365-01	-.3733366-01	-.1209494-01	.1898618-02	.1423799-02	.3240585-02
19	-.7810447-03	-.4711510-03	.1250217-02	-.2402049-02	.2914415-03	.3171625-02
20	-.3731300-01	-.3780714-01	.1448165-01	.2279581-02	-.9471976-03	.3070526-02
21	-.6491161-01	-.1151084-01	.2412828-01	.1629874-02	-.1939721-02	.3018060-02
22	-.7590555-01	.2563936-01	.2728018-01	.5704177-03	-.2413362-02	.3018499-02
23	-.6590120-01	.6351719-01	.2341358-01	-.5978538-03	-.2238033-02	.2992593-02
24	-.3742061-01	.9126330-01	.1390623-01	-.1566546-02	-.1493730-02	.2926483-02
25	-.3891095-03	-.7933388-01	.5017107-03	.5982426-02	-.2106359-04	.1070572-02
26	-.4394935-01	-.6748743-01	-.2183163-01	-.5189759-02	.2974986-02	.1067046-02
27	-.7579893-01	-.3545022-01	-.3628299-01	-.3006327-02	.5164212-02	.1069053-02
28	-.8737856-01	.8243853-02	-.4441541-01	-.2319200-04	.5965025-02	.1073975-02
29	-.7549241-01	.5189709-01	-.3849749-01	.2971217-02	.5179240-02	.1053625-02
30	-.4336010-01	.8376061-01	-.2214543-01	.5167867-02	.3004820-02	.1049739-02
31	.4012785-03	.9527565-01	.2656874-03	.5978474-02	.1758803-04	.1051466-02
32	.4405420-01	.8335589-01	.2270297-01	.5184542-02	-.2975722-02	.1053203-02
33	.7587812-01	.5120157-01	.3912688-01	.3002136-02	-.5159850-02	.1055638-02
34	.8736413-01	.7457747-02	.4514631-01	.1802073-04	-.5968271-02	.1051768-02
35	.7540408-01	-.3612885-01	.3915957-01	-.2976606-02	-.5181802-02	.1062722-02
36	.4328530-01	-.6787615-01	.2281816-01	-.5171940-02	-.3006257-02	.1059658-02
37	.7352836-03	-.1003292+00	.8204792-03	.4114724-02	.1325641-04	.2012967-02
38	.1378682-05	-.7198639-01	.1122220-02	-.2313848-02	-.3856591-04	.1241990-03
39	-.2461079-01	-.6734471-01	-.4928387-02	-.2129835-02	-.3210298-02	.2275801-03
40	-.4628511-01	-.5401437-01	-.1022714-01	-.1676126-02	-.5982843-02	.3492816-03
41	-.6241885-01	-.3360444-01	-.1411047-01	-.1017600-02	-.8015296-02	.4723892-03
42	-.7105365-01	-.8578764-02	-.1611676-01	-.2454294-03	-.9064628-02	.5807816-03
43	-.7111964-01	.1804220-01	-.1604042-01	.5391726-03	-.9014130-02	.6617357-03
44	-.6258067-01	.4304689-01	-.1394058-01	.1241447-02	-.7883134-02	.7072019-03
45	-.4645203-01	.6342077-01	-.1010948-01	.1784996-02	-.5818731-02	.7138426-03
46	-.2468236-01	.7670704-01	-.5017850-02	.2116963-02	-.3072607-02	.6823964-03
47	.8563904-04	.8130661-01	.7455662-03	.2208078-02	.3100607-04	.6169871-03
48	.2484183-01	.7666541-01	.6532586-02	.2051147-02	.3130852-02	.5245822-03
49	.4658008-01	.6339111-01	.1169183-01	.1660256-02	.5865982-02	.4145692-03
50	.6266776-01	.4294517-01	.1562555-01	.1071207-02	.7913047-02	.2983613-03

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51	.7116792-01	.1792981-01	.1784982-01	.3425269-03	.9021914-02	.1888272-03
52	.7107365-01	-.8687562-02	.1805679-01	-.4453249-03	.9048710-02	.9925482-04
53	.6242390-01	-.3369706-01	.1617161-01	-.1196019-02	.7975175-02	.4174913-04
54	.4628590-01	-.5408123-01	.1236608-01	-.1810122-02	.5923190-02	.2527072-04
55	.2461253-01	-.6737962-01	.7150819-02	-.2201667-02	.3137702-02	.5364975-04
56	.1526860-02	-.1046320+00	.2114442-02	-.5393153-04	-.3130200-04	-.1495740-02
57	-.2319208-01	-.1007165+00	.1694759-02	-.5730478-04	.2032229-05	-.1406490-02
58	-.4505933-01	-.8845768-01	.1286221-02	-.5126759-04	.3417296-04	-.1497463-02
59	-.6141295-01	-.6935069-01	.9502681-03	-.3843642-04	.6040267-04	-.1496687-02
60	-.7028023-01	-.4572150-01	.7237410-03	-.2251424-04	.7780904-04	-.1491792-02
61	-.7061630-01	-.2043671-01	.6162927-03	-.6871528-05	.8551919-04	-.1481356-02
62	-.6241978-01	.3449922-02	.6170899-03	.6480783-05	.8426120-04	-.1466029-02
63	-.4671495-01	.2306850-01	.7068013-03	.1725146-04	.7552933-04	-.1448882-02
64	-.254105E-01	.3607359-01	.8691503-03	.2635935-04	.6075775-04	-.1434523-02
65	-.1062294-02	.4091786-01	.1095864-02	.3477593-04	.4094281-04	-.1427299-02
66	-.2342965-01	.3702828-01	.1382759-02	.4245291-04	.1685249-04	-.1429580-02
67	.4515356-01	.2486946-01	.1719636-02	.4776709-04	-.1031796-04	-.1440632-02
68	.1151579-01	.5889413-02	.2079103-02	.4790624-04	-.3820927-04	-.1456687-02
69	.7053901-01	-.1764567-01	.2412676-02	.4040153-04	-.6309162-04	-.1472790-02
70	.7110416-01	-.4291306-01	.2460002-02	.2478163-04	-.8054791-04	-.1485179-02
71	.6310280-01	-.6686681-01	.2766889-02	.3161543-05	-.8677467-04	-.1492466-02
72	.4746909-01	-.8660545-01	.2702964-02	-.2035185-04	-.7981177-04	-.1495348-02
73	.2607885-01	-.9972792-01	.2472292-02	-.4082825-04	-.6025998-04	-.1495736-02
74	.2327502-02	-.1203786+00	.2518802-02	.3154534-03	-.3564209-04	-.1823313-02
75	-.1977933-01	-.1172446+00	.5782102-02	.2873292-03	-.1403655-03	-.1823848-02
76	-.3946293-01	-.1066610+00	.8558020-02	.2252329-03	-.2288362-03	-.1825244-02
77	-.5433033-01	-.8992020-01	.1051557-01	.1359293-03	-.2905415-03	-.1825757-02
78	-.6259523-01	-.6905923-01	.1141429-01	.2950225-04	-.3178125-03	-.1823691-02
79	-.6328530-01	-.4660544-01	.1113679-01	-.8137242-04	-.3069366-03	-.1818690-02
80	-.5634626-01	-.2526821-01	.707960-02	-.1831456-03	-.2588386-03	-.1811322-02
81	-.4264135-01	-.7612022-02	.7294173-02	-.2632271-03	-.1790537-03	-.1802884-02
82	-.2383657-01	.9250467-02	.4185059-02	-.3114259-03	-.7713403-04	-.1795668-02
83	-.2188768-02	.6906261-02	.7605407-03	-.3212978-03	.3439267-04	-.1792369-02
84	.1972515-01	.5802862-02	-.2555955-02	-.2913356-03	.1415755-03	-.1794533-02
85	.3930074-01	-.4691013-02	-.5353956-02	-.2254850-03	.2309965-03	-.1801341-02
86	.5419653-01	-.2132696-01	-.7291936-02	-.1324796-03	.2916979-03	-.1810072-02
87	.6260678-01	-.4211753-01	-.8140440-02	-.2421470-04	.3165820-03	-.1817869-02
88	.6348861-01	-.6456632-01	-.7806231-02	.8603921-04	.3030783-03	-.1823107-02
89	.5670396-01	-.8596532-01	-.6338862-02	.1851275-03	.2532416-03	-.1825430-02
90	.4304726-01	-.1037228+00	-.3921838-02	.2614819-03	.1733770-03	-.1825317-02
91	.2415771-01	-.1156800+00	-.8477189-03	.3065340-03	.7314976-04	-.1824080-02
92	.2948103-02	-.1258669+00	.2735740-02	.4611291-03	-.4377306-04	-.1939250-02
93	-.1563980-01	-.1236065+00	.8521245-02	.4238165-03	-.2136637-03	-.1940680-02
94	-.3230566-01	-.1151121+00	.1348473-01	.3353323-03	-.3593625-03	-.1942823-02
95	-.4503077-01	-.1014207+00	.1702641-01	.2062673-03	-.4632283-03	-.1944684-02
96	-.5228723-01	-.8419723-01	.1871643-01	.5195631-04	-.5126060-03	-.1945043-02
97	-.5322414-01	-.6552664-01	.1834475-01	-.1091469-03	-.5013049-03	-.1943145-02
98	-.4775483-01	-.4765820-01	.1595130-01	-.2572486-03	-.4305160-03	-.1939683-02
99	-.3655313-01	-.3273689-01	.1182593-01	-.3740536-03	-.3088456-03	-.1935876-02
100	-.2097081-01	-.2254987-01	.6470657-02	-.4454032-03	-.1511686-03	-.1932847-02

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101	-.2874843-02	-.1831523-01	.5351863-03	-.4628015-03	.2334107-04	-.1931678-02
102	.1557608-01	-.2053972-01	-.5262161-02	-.4242515-03	.1935601-03	-.1933009-02
103	.3218171-01	-.2896067-01	-.1022117-01	-.3345385-03	.3389564-03	-.1936295-02
104	.4495004-01	-.4257519-01	-.1374456-01	-.2046095-03	.4420518-03	-.1940031-02
105	.5233267-01	-.5975417-01	-.1540928-01	-.5017091-04	.4904777-03	-.1942864-02
106	.5341973-01	-.7043300-01	-.1501662-01	.1101265-03	.4784548-03	-.1944172-02
107	.4805694-01	-.9635869-01	-.1261712-01	.2568033-03	.4075549-03	-.1943575-02
108	.3686768-01	-.1113604+00	-.8504619-02	.3722446-03	.2864938-03	-.1941411-02
109	.2119448-01	-.1216131+00	-.3175074-02	.4431012-03	.1298467-03	-.1939436-02
110	.3670711-02	-.1241568+00	.2922942-02	.5592813-03	-.5067211-04	-.2060726-02
111	-.9493820-02	-.1231195+00	.1083267-01	.5162464-03	-.2765520-03	-.2062473-02
112	-.2149092-01	-.1176392+00	.1764622-01	.4103468-03	-.4708254-03	-.2063052-02
113	-.3087756-01	-.1083826+00	.2253818-01	.2549775-03	-.6098981-03	-.2063793-02
114	-.3651525-01	-.9647094-01	.2481943-01	.6870726-04	-.6769962-03	-.2063877-02
115	-.3774875-01	-.8334683-01	.2449671-01	-.1264025-03	-.6638124-03	-.2061539-02
116	-.3446050-01	-.7058438-01	.2131642-01	-.3061752-03	-.5718031-03	-.2058315-02
117	-.2703892-01	-.5970911-01	.1577010-01	-.4482020-03	-.4123828-03	-.2056675-02
118	-.1635256-01	-.5202788-01	.8537950-02	-.5356037-03	-.2052374-03	-.2056680-02
119	-.3676347-02	-.4847045-01	.4958269-03	-.5584977-03	.2450502-04	-.2057365-02
120	.9462275-02	-.4947101-01	-.7390989-02	-.5145511-03	.2493436-03	-.2050187-02
121	.2147295-01	-.5491322-01	-.1417941-01	-.4091073-03	.4425215-03	-.2058773-02
122	.3090065-01	-.6414195-01	-.1905607-01	-.2544671-03	.5809726-03	-.2059558-02
123	.3661392-01	-.7604517-01	-.2143075-01	-.6878729-04	.6478950-03	-.2061051-02
124	.3792911-01	-.8919181-01	-.2101163-01	.1254295-03	.6349785-03	-.2062403-02
125	.3467279-01	-.1020000+00	-.1784936-01	.3042374-03	.5437947-03	-.2062108-02
126	.2720772-01	-.1129194+00	-.1233073-01	.4460546-03	.3855428-03	-.2060051-02
127	.1642709-01	-.1206173+00	-.5120351-02	.5345604-03	.1792320-03	-.2059098-02
128	-.2799556-01	.1740786-01	.3211261-01	.2171629-01	-.1332269-02	-.2197480-02
129	.1384270-01	.1998293-01	.3661102+00	.1998582-01	-.8913207-02	-.2184720-02
130	.5379976-01	.8351818-02	.6529715+00	.1583844-01	-.1540577-01	-.2166608-02
131	.8711250-01	-.1601161-01	.8580944+00	.9785642-02	-.2002664-01	-.2154174-02
132	.1098508+00	-.5013489-01	.9568703+00	.2563902-02	-.2222230-01	-.2142565-02
133	.1192466+00	-.8987859-01	.9375850+00	-.4953285-02	-.2173401-01	-.2129290-02
134	.1142144+00	-.1304181+00	.8027847+00	-.1185852-01	-.1862735-01	-.2125847-02
135	.9554966-01	-.1668804+00	.5689319+00	-.1732427-01	-.1328271-01	-.2136232-02
136	.6563985-01	-.1449492+00	.2642750+00	-.2070545-01	-.6345775-02	-.2152145-02
137	.2603091-01	-.2113379+00	-.7464005-01	-.2160791-01	.1352676-02	-.2159546-02
138	-.1297169-01	-.2141087+00	-.4072759+00	-.1992530-01	.8893998-02	-.2154761-02
139	-.5261637-01	-.2028870+00	-.6937890+00	-.1585123-01	.1537666-01	-.2142611-02
140	-.8619639-01	-.1789322+00	-.8996956+00	-.9862073-02	.2002085-01	-.2133259-02
141	-.1095658+00	-.1450466+00	-.1000000+01	-.2667023-02	.2226167-01	-.2134639-02
142	-.1197247+00	-.1052645+00	-.9622960+00	.4864972-02	.2181996-01	-.2146961-02
143	-.1153228+00	-.6446901-01	-.8484436+00	.1183352-01	.1874077-01	-.2162708-02
144	-.9685195-01	-.2757514-01	-.6144373+00	.1737442-01	.1339093-01	-.2178794-02
145	-.6650864-01	.8835936-03	-.3085364+00	.2081008-01	.6417036-02	-.2193499-02
146	.4740967-03	.1002477+00	.8096801-04	-.1185386-02	-.1331102-03	.2706451-02
147	.8343368-01	.1624786-01	-.7685272-02	-.1540994-03	.1118496-02	.2679718-02
148	-.3465515-03	-.6672219-01	-.1421798-02	.1069914-02	.1048324-03	.2681802-02
149	-.8343068-01	.1712511-01	.5974348-02	.3532895-04	-.1093506-02	.2706036-02
150	.6171798-03	.8860443-01	-.6617408-03	-.1171476-02	-.2099373-04	.2733908-02

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151	.6423642-01	.2216928-01	-.1140007-01	-.8355132-04	.1224533-02	.2750454-02
152	-.2625577-02	-.4084142-01	-.2258154-02	.1192513-02	.1610138-03	.2761480-02
153	-.6573893-01	.2675183-01	.8657278-02	.1724039-03	-.1106257-02	.2777322-02
154	.2519000-02	.1731004-01	-.3999840-02	-.2157727-02	-.1245015-03	.3246102-02
155	.3720308-02	.2603645-01	-.3368238-02	-.2000741-02	-.1467971-03	.3117887-02
156	.4380427-02	.3699948-01	-.3214097-02	-.1978735-02	-.1518672-03	.2943578-02
157	.4194491-02	.5216961-01	-.3393793-02	-.2085377-02	-.1999275-03	.2871498-02
158	.4914494-03	.7020083-01	-.8415779-03	-.1608689-02	-.8817167-04	.3077588-02
159	-.5947858-04	.8303419-01	-.1003553-02	-.1565989-02	-.8388913-04	.3084388-02
160	.8042688-01	.7282358-01	-.1414443-02	-.1433366-02	.7340640-03	.3091035-02
161	.6952048-01	.4284763-01	-.1411377-02	-.8512784-03	.1306920-02	.3087130-02
162	.8253716-01	.2348273-02	-.2183520-02	-.7934185-04	.1661503-02	.2812927-02
163	.6869578-01	-.3729092-01	-.1958687-02	.6973227-03	.1384013-02	.2499647-02
164	.4644506-01	-.8146545-01	-.1734011-02	.1837677-02	.1117405-02	.5968817-03
165	-.7789764-03	-.9191171-01	-.8280425-03	.2014456-02	.4661946-04	.6902913-06
166	-.4500947-01	-.7646327-01	-.8841120-04	.1534808-02	-.8238335-03	.6360582-04
167	-.7077833-01	-.3803274-01	-.9772615-04	.6165077-03	-.8572368-03	.2793250-02
168	-.8169381-01	.3002001-02	.1220107-03	.2529941-04	-.1076416-02	.2799406-02
169	-.7047480-01	.386934-01	.8538516-04	-.5697242-03	-.1001789-02	.2786347-02
170	-.4033970-01	.7361546-01	-.1925675-03	-.1011522-02	-.6556034-03	.2750291-02
171	-.9449227-01	.5392413-02	-.2828999-01	-.4359070-04	.6378474-02	.1016630-02
172	-.2128278-01	-.1666811-00	-.2766403-02	-.6380764-02	.7709229-03	.1012226-02
173	-.1725825+00	.4730587-02	-.2835468-01	.1068334-04	.6389032-02	.1007691-02
174	-.2081892-01	.1759086+00	-.3099252-02	.6308647-02	.8028803-03	.1013275-02
175	.1650305+00	.5066645-02	.2738753-01	.3519781-04	-.5991005-02	.1108928-02
176	-.1126926-01	.9634195-01	-.3910501-02	.5920284-02	.8504183-03	.1104088-02
177	-.1157776-01	-.8680520-01	-.2864344-02	-.6086740-02	.6776984-03	.1098487-02
178	.9205378-01	.4162594-02	.2767566-01	-.5518321-04	-.5986240-02	.1121161-02
179	.6988995-01	.2810605-02	.2158675-01	-.3085029-04	-.6074239-02	.5611644-03
180	-.4170950-03	-.6661051-01	.4287065-03	-.6108100-02	-.7744958-04	.5771937-03
181	-.6989149-01	.3707105-02	-.2087829-01	-.6126601-04	.6024545-02	.5920282-03
182	.3892832-03	.7308158-01	.3152404-03	.6028889-02	.1925984-05	.5558563-03
183	.7328079-02	.3840567-02	.2629719-01	-.1947000-04	-.6018957-02	.9819982-03
184	-.6195538-03	-.2879911-02	.4453256-03	-.6067673-02	-.1869008-04	.9883690-03
185	-.7316688-02	.5069613-02	-.2555229-01	-.6004636-04	.6015070-02	.9717735-03
186	.6095656-03	.1174885-01	.3042621-03	.5994280-02	.1690635-04	.9830759-03
187	.3687530-01	.3594043-02	.2448614-01	.9946366-05	-.6025509-02	.1036842-02
188	-.5344894-03	-.3274428-01	.4411248-03	-.6031753-02	-.1696431-04	.1038087-02
189	-.3687509-01	.4662627-02	-.2374244-01	-.2306290-04	.6029649-02	.1036740-02
190	.5341697-03	.4099703-01	.3101121-03	.6028420-02	.1559243-04	.1035219-02
191	.6435169-01	-.1728829-03	.3799432-03	-.5177818-04	-.5755542-02	.2274800-04
192	.8590104-01	-.3789501-03	.3795266-03	.1851450-05	-.6243288-02	.9987977-03
193	.1648420+00	-.2587027-03	.4329879-03	.1239565-04	-.6554590-02	.8635034-03

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VIBRATIONAL MODE

EIGENVAL(U)= .1490177+06, FREQ= 61.4383 HZ

ID= 2 / 1 / 11

JOINT	1	2	3	4	5	6
1	-.3441679-02	-.7938491-04	-.1221024-01	.4756037-05	.8788533-03	-.2511835-04
2	-.3740668-02	.2096242-02	-.1083229-01	.4109813-03	.6901689-03	.9155839-04
3	-.2913530-02	.4053771-02	-.7582411-02	.6659530-03	.3885296-03	.9114259-04
4	-.6016317-03	.5058624-02	-.3782985-02	.7183255-03	.8556873-04	-.4438076-04
5	.2485638-02	.4583221-02	.1109961-03	-.6062570-03	-.3204811-03	-.1122457-03
6	.5304683-02	.2539580-02	.2922523-02	.3180264-03	-.5830589-03	-.1802415-03
7	.6354947-02	.4723127-03	.3906134-02	-.5308200-05	-.7050129-03	-.2127538-04
8	.5076787-02	-.3424354-02	.2648451-02	-.3290873-03	-.5743873-03	.1287949-03
9	.2123783-02	-.5309524-02	-.1013019-04	-.6107488-03	-.3048063-03	.6072910-04
10	-.9946549-03	-.5583769-02	-.3908716-02	-.7155284-03	.9757062-04	-.8064248-05
11	-.3234657-02	.4388285-02	-.2674730-02	-.6583218-03	.3920580-03	-.1425576-03
12	-.3916129-02	-.2299489-02	-.1088093-01	-.4010722-03	.6905097-03	.1396826-03
13	.9686650-02	-.1965012-02	.4046678-01	-.1687979-03	-.2739822-02	.2312364-03
14	.8232771-02	-.6799988-02	.3628618-03	-.1778453-02	-.2947693-02	.8002154-04
15	.5376012-02	-.1047854-01	.2679520-01	-.3068977-02	-.2163423-02	.1637570-04
16	-.9424373-03	-.1143396-01	.1427474-01	-.3399521-02	-.3049306-03	-.6591625-04
17	-.7642675-02	-.9014114-02	.2368010-02	-.2703339-02	.1788490-02	.7206145-04
18	-.9977929-02	-.4298586-02	-.6184260-02	-.1267986-02	.2883604-02	-.1433816-04
19	-.8959842-02	.3437078-03	-.8514834-02	.5193858-03	.3080224-02	-.1388572-03
20	-.8036097-02	.5129714-02	-.5978049-02	.2215136-02	.2450634-02	-.8501622-04
21	-.4544578-02	.9401429-02	.2756603-02	.3382602-02	.1074669-02	-.1095235-04
22	.1517391-02	.1124893-01	.1490575-01	.3731767-02	-.6452682-03	.4434849-06
23	.8306927-02	.9458196-02	.2766390-01	.3094650-02	.2329379-02	-.3830377-04
24	.1279186-01	.4223622-02	.3719284-01	.1599832-02	-.3535954-02	-.6388730-04
25	-.2958454-01	.9513151-03	.1062532-01	.2663553-04	.2025051-02	-.9897028-05
26	-.2509805-01	.1561520-01	.1278417-01	.1037479-02	.1736236-02	-.1271199-04
27	-.1389239-01	.2604581-01	.1845783-01	.1765183-02	.9742696-03	.1250997-04
28	.1054959-02	.2954838-01	.2612546-01	.2017495-02	-.3195912-04	-.1521359-04
29	.1572812-01	.2504639-01	.3374104-01	.1729702-02	-.1032077-02	-.1047794-04
30	.2617401-01	.1378374-01	.3925684-01	.9809496-03	-.1744504-02	-.9142106-05
31	.2961137-01	-.1216598-02	.4120238-01	-.2531413-04	-.1989961-02	-.2897494-04
32	.2508955-01	-.1592183-01	.3903243-01	-.1027694-02	-.1718680-02	-.1946089-04
33	.1383779-01	-.2638284-01	.3337025-01	-.1755452-02	-.9817733-03	-.2004285-04
34	-.1112711-02	-.2979634-01	.2570884-01	-.2015587-02	.1832194-04	-.2753748-04
35	-.1576120-01	-.2525585-01	.1810647-01	-.1738345-02	.1022430-02	-.2553123-04
36	-.2616694-01	-.1399924-01	.1258334-01	-.9908401-03	.1762036-02	-.2572792-04
37	-.8693251-02	-.8737278-04	-.3545310-02	-.4825663-05	-.6704508-03	-.2531940-04
38	-.2401438-01	.5053273-03	-.1230504-01	.6572467-05	-.7664608-04	.4039661-04
39	-.2249778-01	.8649387-02	-.1198761-01	.2277825-03	.4063678-04	.5621951-04
40	-.1831235-01	.1614037-01	-.1099594-01	.4123876-03	.3197046-03	.6416143-04
41	-.1196952-01	.2149452-01	-.9477836-02	.5340316-03	.7200957-03	.6394346-04
42	-.4245320-02	.2426685-01	-.7649930-02	.5790812-03	.1185605-02	.5602448-04
43	.3918198-02	.2412871-01	-.5756240-02	.5483127-03	.1654746-02	.4129536-04
44	.1153225-01	.2110494-01	-.4026821-02	.4542285-03	.2070833-02	.2096584-04
45	.1768342-01	.1556706-01	-.2647953-02	.3153705-03	.2389131-02	-.3324036-05
46	.2164165-01	.8185104-02	-.1749515-02	.1503006-03	.2579730-02	-.2929827-04
47	.2234213-01	-.1543541-03	-.1407079-02	-.2587342-04	.2626989-02	-.5397729-04
48	.2143492-01	-.8453476-02	-.1649605-02	-.2010202-03	.2527858-02	-.7394589-04
49	.1729960-01	-.1571942-01	-.2452370-02	-.3627734-03	.2290951-02	-.8598578-04
50	.1102477-01	-.2108010-01	-.3781126-02	-.4955255-03	.1937136-02	-.8789144-04

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51	.3354352-02	-.2388738-01	-.5482598-02	-.5805391-03	.1500749-02	-.7911322-04
52	-.4795351-02	-.2379628-01	-.7382064-02	-.5998763-03	.1029537-02	-.6094956-04
53	-.1244204-01	-.2080970-01	-.9246779-02	-.5425128-03	.5811350-03	-.3623030-04
54	-.1865647-01	-.1528180-01	-.1082703-01	-.4097656-03	.2159211-03	-.8651635-05
55	-.2267864-01	-.7677866-02	-.1189860-01	-.2174177-03	-.1515888-04	.1798402-04
56	-.3527909-01	.1135811-02	-.1556970-01	-.2953281-04	.3917817-03	.6615462-04
57	-.3324071-01	.1326963-01	-.1534507-01	.8872806-04	.3793513-03	.6348234-04
58	-.2717389-01	.2395386-01	-.1427082-01	.1947453-03	.3217429-03	.6280715-04
59	-.1783923-01	.3188873-01	-.1249188-01	.2748670-03	.2269752-03	.6556821-04
60	-.6398473-02	.3611864-01	-.1024068-01	.3196604-03	.1077143-03	.7134264-04
61	.5741992-02	.3614707-01	-.7800905-02	.3249646-03	-.2082202-04	.7785978-04
62	.1711359-01	.3199034-01	-.5467515-02	.2918448-03	-.1430943-03	.8193406-04
63	.2636558-01	.2416644-01	-.3510555-02	.2256827-03	-.2451508-03	.8095652-04
64	.3241876-01	.1562442-01	-.2147687-02	.1348432-03	-.3159514-03	.7429615-04
65	.3457796-01	.1627109-02	-.1526667-02	.2944092-04	-.3480980-03	.6381849-04
66	.3259856-01	-.1039715-01	-.1715621-02	-.7948667-04	-.3381729-03	.5316254-04
67	.2670814-01	-.2101768-01	-.2698174-02	-.1804953-03	-.2869245-03	.4610008-04
68	.1758468-01	-.2896455-01	-.4372333-02	-.2622849-03	-.1993933-03	.4483050-04
69	.6290973-02	-.3327654-01	-.6554747-02	-.3146379-03	-.8485544-04	.4907056-04
70	-.5835354-02	-.3341867-01	-.8993905-02	-.3298453-03	.3679811-04	.5638480-04
71	-.1733222-01	-.2935408-01	-.1139507-01	-.3043405-03	.1706693-03	.6349193-04
72	-.2679026-01	-.2155766-01	-.1345649-01	-.2399526-03	.2799540-03	.6778381-04
73	-.3303397-01	-.1096564-01	-.1491168-01	.1442182-03	.3571159-03	.6834789-04
74	-.4259247-01	.1240988-02	-.1672000-01	-.3458087-04	.3011639-03	.7484319-04
75	-.4037178-01	.1590562-01	-.1664864-01	.4800263-04	.2973123-03	.7243006-04
76	-.3326092-01	.2890844-01	-.1572354-01	.1240401-03	.2606563-03	.7170839-04
77	-.2214807-01	.3867067-01	-.1406654-01	.1840306-03	.1961085-03	.7364568-04
78	-.8409205-02	.4401719-01	-.1188851-01	.2209135-03	.1119761-03	.7777454-04
79	.6274100-02	.4431695-01	-.9459129-02	.2307952-03	.1872964-04	.8241897-04
80	.2012822-01	.3955283-01	-.7071522-02	.2131763-03	-.7238623-04	.8539555-04
81	.3150292-01	.3031499-01	-.5006901-02	.1707400-03	-.1507064-03	.8499901-04
82	.3906121-01	.1772251-01	-.3503414-02	.1087821-03	-.2072984-03	.8080133-04
83	.4192478-01	.3285966-02	-.273209-02	.3446980-04	-.2358170-03	.7398360-04
84	.3976404-01	-.1127123-01	-.2781560-02	-.4392178-04	-.2330438-03	.6693588-04
85	.3282967-01	-.2421223-01	-.3648818-02	-.1176945-03	-.1991541-03	.6222354-04
86	.2192695-01	-.3398723-01	-.5239374-02	-.1783953-03	-.1377592-03	.6142129-04
87	.8333461-02	-.3941501-01	-.7373377-02	-.2186150-03	-.5569361-04	.6443377-04
88	-.6337036-02	-.3982649-01	-.9801647-02	-.2329034-03	.3753347-04	.6959607-04
89	-.2031678-01	-.3515227-01	-.1223156-01	-.2187082-03	.1306854-03	.7449681-04
90	-.3189673-01	-.2594057-01	-.1436218-01	-.1771195-03	.2121493-03	.7719583-04
91	-.3964424-01	-.1329824-01	-.1592460-01	-.1130287-03	.2715266-03	.7704213-04
92	-.4750462-01	.1082976-02	-.166531-01	-.3655777-04	.2316072-03	.7739743-04
93	-.4823269-01	.1739718-01	-.1673647-01	.2403522-04	.2339340-03	.7369161-04
94	-.3747384-01	.3193925-01	-.1604892-01	.8112987-04	.2128536-03	.7191795-04
95	-.2519773-01	.4294554-01	-.1468449-01	.1277236-03	.1712603-03	.7284041-04
96	-.9920611-02	.4909204-01	-.1281587-01	.1584012-03	.1144838-03	.7595267-04
97	.6492400-02	.4965175-01	-.1067289-01	.1697983-03	.4953799-04	.7988842-04
98	.2205986-01	.4457597-01	-.8513981-02	.1609023-03	-.1975249-04	.8296698-04
99	.3492428-01	.3449238-01	-.6594926-02	.1331170-03	-.7369383-04	.8372701-04
100	.4356894-01	.2062238-01	-.5139200-02	.8996175-04	-.1176084-03	.8161562-04

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101	.4698552-01	.4630873-02	-.4314037-02	.3650575-04	-.1425226-03	.7735990-04
102	.4477974-01	-.1157136-01	-.4214417-02	-.2123571-04	-.1456076-03	.7274902-04
103	.3720891-01	-.2605004-01	-.4854280-02	-.7682754-04	-.1264141-03	.6987955-04
104	.2515383-01	-.3707094-01	-.6164380-02	-.1239254-03	-.8694322-04	.7008675-04
105	.1002790-01	-.4330296-01	-.7997067-02	-.1568423-03	-.3154665-04	.7327398-04
106	-.6373585-02	-.4397919-01	-.1013893-01	-.1711989-03	.3339121-04	.7789657-04
107	-.2207483-01	-.3699670-01	-.1233231-01	-.1646426-03	.1000592-03	.8170883-04
108	-.3515658-01	-.2893952-01	-.1430574-01	-.1374692-03	.1601386-03	.8294575-04
109	-.4400064-01	-.1501643-01	-.1581027-01	-.9285933-04	.2059483-03	.8115988-04
110	-.5027443-01	.727763-03	-.1592808-01	-.3793365-04	.2559312-03	.8044465-04
111	-.4812370-01	.1800232-01	-.1616838-01	.5381466-05	.2623466-03	.7707187-04
112	-.4013689-01	.3349233-01	-.3578106-01	.4747812-04	.2487253-03	.7579670-04
113	-.2731475-01	.4532168-01	-.1482117-01	.8332477-04	.2170325-03	.7692411-04
114	-.1123607-01	.5206893-01	-.1341024-01	.1088545-03	.1713078-03	.7965272-04
115	.6142959-02	.5293418-01	-.1172053-01	.1212076-03	.1171390-03	.8289525-04
116	-.2272509-01	.4783000-01	-.9955545-02	.1190205-03	.6104506-04	.8558616-04
117	.3652549-01	.3738671-01	-.8325891-02	.1027440-03	.9699966-05	.8660403-04
118	.4591070-01	.2287038-01	-.7022486-02	.7458027-04	-.3092225-04	.8517730-04
119	.4978509-01	.6025684-02	-.6194700-02	.3791296-04	-.5621601-04	.8158558-04
120	.4770368-01	-.1113348-01	-.5937543-02	-.3179163-05	.6332108-04	.7739353-04
121	.3991148-01	-.2655857-01	-.6282989-02	-.4416321-04	-.5134177-04	.7460812-04
122	.2731579-01	-.3840241-01	-.7195826-02	-.8042039-04	-.2146303-04	.7457147-04
123	.1139233-01	-.4523702-01	-.8575558-02	-.1076468-03	.2308505-04	.7738060-04
124	-.5972364-02	-.4622140-01	-.1026373-01	-.1222567-03	.7723308-04	.8173281-04
125	-.2268975-01	-.4121378-01	-.1205817-01	-.1219320-03	.1344995-03	.8538062-04
126	-.3671524-01	-.3079893-01	-.1373579-01	-.1062127-03	.1877100-03	.8639709-04
127	-.4630945-01	-.1622840-01	-.1508290-01	-.7689820-04	.2300011-03	.8429019-04
128	.5767344-01	.1590211-01	.5317070+00	-.1059495-02	-.1717515-01	-.1325681-03
129	.6164241-01	-.4817894-02	.4686747+00	-.6800923-02	-.1570178-01	-.1157113-03
130	.5797816-01	-.2563674-01	.3203540+00	-.1170851-01	-.1228872-01	-.1024438-03
131	.4720020-01	-.4399690-01	.1049168+00	-.1518354-01	-.7356053-02	-.9835394-04
132	.3074931-01	.5767833-01	-.1513337+00	-.1680904-01	-.1508143-02	-.1057588-03
133	.1073290-01	-.6507669-01	-.4172742+00	-.1639985-01	.4543390-02	-.1203386-03
134	-.1041116-01	-.6537264-01	-.6608325+00	-.1402078-01	.1006885-01	-.1349908-03
135	-.3021673-01	-.5859256-01	-.8526642+00	-.9970329-02	.1440866-01	-.1429085-03
136	-.1644737-01	-.4557036-01	-.9705516+00	-.4739606-02	.1704964-01	-.1422634-03
137	-.5726915-01	-.2784011-01	-.1000007+01	.1049762-02	.1768193-01	-.1364368-03
138	-.6141151-01	-.7473491-02	-.9377344+00	.6715503-02	.1623159-01	-.1314197-03
139	-.5831513-01	.1313285-01	-.7911085+00	.1158645-01	.1286895-01	-.1310330-03
140	-.4824581-01	.3152162-01	-.5775153+00	.1508041-01	.7990813-02	-.1361927-03
141	-.3231027-01	.4546305-01	-.3224020+00	.1677281-01	.2176243-02	-.1453625-03
142	-.1236101-01	.5323012-01	-.5634691-01	.1644745-01	-.3879045-02	-.1545548-03
143	.9191198-02	.5382846-01	.1885269+00	.1412925-01	-.9443720-02	-.1591310-03
144	.2968259-01	.4714242-01	.3824561+00	.1008806-01	-.1383979-01	-.1568050-03
145	.4655187-01	.3396424-01	.5017309+00	.4810387-02	-.1652755-01	-.1474309-03
146	-.3835561-02	-.2334376-02	.3729831-01	.7264093-05	-.4423112-02	-.3880451-04
147	-.2081657-02	.3747413-02	.9947419-02	-.4390284-02	-.1280451-04	-.3237714-05
148	.3715873-02	.2276919-02	-.1718637-01	.1355722-04	.4361367-02	.4349291-04
149	.1933965-02	-.3287556-02	.1017186-01	.4364885-02	-.5358642-04	.7075651-04
150	.6532460-01	-.2404574-02	.4268401-01	-.6758088-04	-.4401029-02	.6774659-04

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151	-.2509371-02	-.6538993-01	.9564591-02	-.4430052-02	.3301689-04	.4371497-04
152	-.6549123-01	.1926700-02	-.2804101-01	-.1951370-04	.4409076-02	.1902662-04
153	.1604330-02	.6479023-01	.9637539-02	.4349622-02	.3138125-04	.1720415-04
154	.1322660-00	-.2155150-02	.1003684-01	-.1159823-04	-.4232324-02	-.3106770-04
155	.1226471-00	-.2918947-02	.9601628-02	-.4166068-04	-.4234486-02	-.4183912-04
156	.1011827-00	-.5616527-02	.8506169-02	-.1744248-03	-.4260826-02	.1235071-04
157	.6882169-01	-.7333209-02	.5871430-02	-.4380239-03	-.4504260-02	.4825916-04
158	.2807725-01	-.1775423-02	.9106137-02	-.1074532-04	-.4446212-02	.9128909-04
159	-.5823490-03	-.1504623-02	.1362126-01	-.1797799-04	-.4352491-02	.1026931-03
160	-.2331562-02	-.1552513-03	.1401326-01	-.2247606-02	-.3833819-02	.9769606-04
161	-.1496013-02	-.3764841-03	.1170587-01	-.3771151-02	-.2149644-02	.7922446-04
162	-.1704364-02	.4017320-02	.9975343-02	-.4520092-02	.1443838-04	.8424101-04
163	.3292318-02	.8606543-02	.7985076-02	-.4054675-02	.2368818-02	.7490801-04
164	-.7830459-02	-.1683396-02	.7043081-02	-.2027713-02	.3478092-02	.1787827-04
165	-.6112656-02	.2400345-02	.6494581-02	-.1390492-04	.4120310-02	.6431469-08
166	-.2528012-02	.4106664-02	.6836140-02	.2133844-02	.3705044-02	.5934647-06
167	.9100807-03	.2623729-02	.8095914-02	.3744093-02	.2147812-02	.3908956-04
168	.2091498-02	.1819168-02	.9958548-02	.4348854-02	-.5700770-04	.4406379-04
169	.2669993-02	.4810639-03	.1180503-01	.3785974-02	-.2251499-02	.7946185-05
170	.2509177-02	-.9761676-03	.1315300-01	.2195973-02	-.3850948-02	-.3398439-04
171	.1288532-02	.3154754-01	.2619885-01	.2327747-02	-.1982052-04	-.3072798-04
172	-.5951918-01	.8700950-02	.1563192-01	.3128351-03	.2319478-02	-.2470298-04
173	.1447882-02	.6003936-01	.2619648-01	.2328841-02	-.4091903-04	-.3082951-04
174	.5993954-01	.5797249-02	.3642400-01	.2510176-03	-.2301633-02	-.1526382-04
175	-.1379027-02	-.5594202-01	.2621042-01	-.2017990-02	.2232046-04	-.1651782-04
176	.3110192-01	.2695721-02	.3544032-01	.2423078-03	-.2089191-02	-.6747785-05
177	-.3080499-01	.4824932-02	.1664076-01	.2846199-03	.2019304-02	-.1503144-04
178	-.1119393-02	-.3130575-01	.2584342-01	-.2088640-02	.4077710-04	-.2951065-04
179	-.9949709-03	-.2362256-01	.2587636-01	-.2094991-02	.2797944-04	.2245116-05
180	-.2359655-01	.2510792-03	.1864576-01	.2308813-04	.2078630-02	-.9849468-05
181	.1010150-02	.2351365-01	.2607642-01	.2105540-02	-.2542498-04	-.1930937-04
182	.2361835-01	-.1052709-02	.3331047-01	-.2320169-04	-.2076104-02	-.7882335-05
183	-.7055336-03	-.2257851-02	.2584467-01	-.2065786-02	.3229194-04	-.1246847-04
184	-.2184789-02	.6420658-03	.1707518-01	.2676014-04	.2065341-02	-.1916119-04
185	.7185491-03	.2108950-02	.2608754-01	.2070268-02	-.2264316-04	-.1423735-04
186	.2187984-02	-.7815850-03	.3486001-01	-.2316942-04	-.2059629-02	-.1055424-04
187	-.8505726-03	-.1238874-01	.2585425-01	-.2067364-02	.3023081-04	-.1633674-04
188	-.1232171-01	.7834912-03	.1769949-01	.2768543-04	.2067910-02	-.1689742-04
189	.8504403-03	.1225466-01	.2608015-01	.2068737-02	-.2625397-04	-.1733868-04
190	.1232082-01	-.9173681-03	.3423855-01	-.2876680-04	-.2065766-02	-.1679013-04
191	-.1014290-02	-.9068375-02	.2604398-01	-.4544254-02	.1715390-04	.4039054-04
192	-.1123869-02	-.3232054-01	.2601608-01	-.2785553-02	.2744223-04	-.1630719-04
193	-.1450855-02	-.5742602-01	.2605079-01	-.2442755-02	.3101415-04	-.2155390-04

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VIBRATIONAL MODE, ID= 2/ 1/ 12
EIGENVALUE= .1558934+06, FREQ= 62.8397 HZ

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1	.7671274-02	-.1180376-02	-.1109161-01	.5109445-04	-.2228435-03	-.7849650-04
2	.6726843-02	-.5091703-02	-.1110112-01	-.6839427-04	-.2253354-03	-.1205405-03
3	.4043993-02	-.8015640-02	-.1178517-01	-.1743954-03	-.1973859-03	-.1302848-03
4	.1318926-03	-.9144362-02	-.1295052-01	-.2312835-03	-.1182739-03	-.9012424-04
5	-.4129961-02	-.8090480-02	-.1436276-01	-.2172383-03	-.3814486-04	-.2463025-04
6	-.7810675-02	-.4951374-02	-.1552915-01	-.1199315-03	.1190940-03	.8214097-04
7	-.9188639-02	-.5411188-03	-.1615963-01	-.4954027-04	.2046650-03	-.7197730-04
8	-.7523997-02	.3790633-02	-.1609788-01	.2765523-04	.1688445-03	-.2464369-03
9	-.3564370-02	.6704493-02	-.1534351-01	.1646082-03	.1310101-03	-.1353909-03
10	.8039923-03	.7428011-02	-.1407579-01	.2316346-03	-.1538892-04	-.6651807-04
11	.4611123-02	.5968941-02	-.1275838-01	.2274298-03	-.1083319-03	-.2112744-04
12	.7032953-02	.2807702-02	-.1166012-01	.1562467-03	-.1760168-03	-.3926617-04
13	.3130415-02	-.2984043-02	-.2026353-01	.2103790-03	.1406686-03	-.1018660-03
14	.1483554-02	-.3993359-02	-.1917058-01	.3105559-03	.1081199-03	-.6417455-04
15	-.1884632-03	-.4179081-02	-.1726646-01	.3656120-03	-.1416067-03	-.7626860-04
16	-.1699844-02	-.3623393-02	-.1513556-01	.3457318-03	-.3470828-03	-.1039123-03
17	-.3130266-02	-.2364894-02	-.1346978-01	.2711031-03	-.4179671-03	-.7917956-04
18	-.3750809-02	-.5437813-03	-.1244667-01	.9674224-04	-.4897552-03	-.6630509-04
19	.3564065-02	.1354058-02	-.1245598-01	-.7735861-04	-.4600228-03	-.5446415-04
20	-.1615855-02	.2576287-02	-.1322731-01	-.2020066-03	-.3533268-03	-.7579471-04
21	.5477469-01	.2700082-02	-.1493157-01	-.2545010-03	-.1845408-03	-.9988769-04
22	.2347131-02	.1844126-02	-.1696876-01	-.2020709-03	-.6261315-06	-.1067801-03
23	.3403646-02	.3469636-03	-.1888793-01	-.8377809-04	.1452685-03	-.1020250-03
24	.3620851-02	-.1387521-02	-.2009436-01	.6553501-04	.2102681-03	-.9686266-04
25	.3808143-01	.2040353-02	-.2169653-01	.1040697-03	-.2185189-02	-.5668874-04
26	.3419967-01	-.1733954-01	-.2353912-01	-.1003972-02	-.1937662-02	-.5373040-04
27	.2116465-01	-.3220102-01	-.2930753-01	-.1835793-02	-.1160947-02	-.5407183-04
28	.2433747-02	-.3855126-01	-.3745334-01	-.2172166-02	-.9654308-04	-.4964425-04
29	-.1696182-01	-.3465070-01	-.4509907-01	-.1927357-02	.9961896-03	-.5575881-04
30	-.3179393-01	-.2153965-01	-.5212772-01	-.1169840-02	.1806891-02	-.5732050-04
31	-.3811433-01	-.2737054-02	-.5472623-01	-.1061207-03	.2134566-02	-.3069281-04
32	-.3418807-01	.1670087-01	-.5287666-01	.9901228-03	.1912596-02	-.4365666-04
33	-.2108992-01	.3155372-01	-.4712780-01	.1822177-02	.1171012-02	-.4303563-04
34	-.2352670-02	.3783996-01	-.3898733-01	.2169747-02	.1155066-03	-.3276576-04
35	.1701234-01	.3388546-01	-.3064347-01	.1940103-02	-.9832423-03	-.3646863-04
36	.3179187-01	.2077838-01	-.2431065-01	.1184009-02	-.1832893-02	-.3615558-04
37	-.2528743-02	.1502806-02	-.1387215-01	-.5427246-04	.2605587-03	-.7741896-04
38	.1119005-01	-.4428343-03	-.1020555-01	.1790954-04	-.1215204-02	-.5417735-04
39	.1073348-01	-.4119887-02	-.1014100-01	.2439109-04	-.1233833-02	-.5789888-04
40	.9100287-02	-.7414208-02	-.9864454-02	.3746628-04	-.1418995-02	-.5753438-04
41	.6481604-02	-.9926305-02	-.9384114-02	.5899445-04	-.1742923-02	-.5353824-04
42	.3188496-02	-.1135352-01	-.8728927-02	.8513481-04	-.2160150-02	-.4709645-04
43	-.3827131-03	-.1152640-01	-.7958724-02	.1072344-03	-.2615910-02	-.3961047-04
44	-.3798198-02	-.1042767-01	-.7166281-02	.1154216-03	-.3054884-02	-.3220652-04
45	-.6641246-02	-.8193475-02	-.6466289-02	.1032389-03	-.3428157-02	-.2550619-04
46	-.8565509-02	-.5093633-02	-.5972398-02	.7105139-04	-.3697265-02	-.1971901-04
47	-.9337672-02	-.1500604-02	-.5769699-02	.2649209-04	-.3835730-02	-.1492100-04
48	-.8865749-02	.2155630-02	-.5892626-02	-.1826410-04	-.3829367-02	-.1131998-04
49	-.7208853-02	.5437650-02	-.6316253-02	-.5110310-04	-.3676737-02	-.9374262-05
50	-.4569305-02	.7951729-02	-.6963913-02	-.6457586-04	-.3390416-02	-.9705538-05

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51	-.1267888-02	.9394313-02	-.7728266-02	-.5847114-04	-.2998255-02	-.1285501-04
52	.2295315-02	.9588758-02	-.8498029-02	-.3924571-04	-.2543266-02	-.1896910-04
53	.5690208-02	.8507866-02	-.9180603-02	-.1650241-04	-.2080408-02	-.2755523-04
54	.8509642-02	.6278924-02	-.9113061-02	-.1711224-05	-.1669805-02	-.3742804-04
55	.1041816-01	.3169818-02	-.1006030-01	.1233576-04	-.1367391-02	-.4649737-04
56	-.6228741-03	-.2464455-02	-.1318769-01	-.4782181-04	.4342313-03	-.8407319-04
57	-.8192171-03	-.2082531-02	-.1304020-01	.8676583-04	.4271837-03	-.7744790-04
58	-.9144538-03	-.1654762-02	-.1190492-01	.2127705-03	.3720634-03	-.7395754-04
59	-.8663103-03	-.1222595-02	-.9900578-02	.3159018-03	.2742309-03	-.7525575-04
60	-.6449217-03	-.8409889-03	-.7248707-02	.3833160-03	.1440675-03	-.8083003-04
61	-.2531979-03	-.5704434-03	-.4256501-02	.4053531-03	-.3609019-05	-.8823028-04
62	.2623548-03	-.4626943-03	-.1285625-02	.3774238-03	-.1509167-03	-.9420616-04
63	.8169852-03	-.5463879-03	.1291472-02	.3014752-03	-.2791004-03	-.9621358-04
64	.1308606-02	-.8146648-03	.3143734-02	.1864226-03	-.3712609-03	-.9357040-04
65	.1646589-02	-.1226186-02	.4030349-02	.4718055-04	-.4150688-03	-.8772743-04
66	-.1777225-02	-.1713464-02	.3838216-02	-.9762266-04	-.4048175-03	-.8155414-04
67	.1696123-02	-.2199520-02	.2598327-02	-.2287817-03	-.3423050-03	-.7799023-04
68	.1443456-02	-.2615633-02	.4783356-03	-.3295778-03	-.2363510-03	-.7868331-04
69	.1085049-02	-.2914336-02	-.2246100-02	-.3882665-03	-.1011365-03	-.8322311-04
70	.6879883-03	-.3073916-02	-.5233840-02	-.3992626-03	.4615761-04	-.8932961-04
71	.3013020-03	-.3094374-02	-.8125230-02	-.3631601-03	.1878280-03	-.9392535-04
72	-.5060528-04	-.2988429-02	-.1058519-02	-.2857144-03	.3077569-03	-.9460280-04
73	-.3605482-03	-.2772831-02	-.1233730-01	-.1765486-03	.3929076-03	-.9079347-04
74	-.1163614-01	-.4631292-02	-.1477025-01	-.5276606-04	.4679956-03	-.8711482-04
75	-.1162140-01	-.3937225-03	-.1457722-01	.8869290-04	.4612008-03	-.8072442-04
76	-.1021485-01	.3540799-02	-.1291067-01	.2207079-03	.4018309-03	-.7735547-04
77	-.7544250-02	.6853353-02	-.9953011-02	.3278980-03	.2962138-03	-.7847503-04
78	-.3884840-02	.8995032-02	-.6044420-02	.3970303-03	.1561950-03	-.8349979-04
79	.3512684-03	.9737442-02	-.1645108-02	.4187321-03	-.1861387-05	-.9004409-04
80	.4650812-02	.8965743-02	.2712561-02	.3891153-03	-.1587837-03	-.9505337-04
81	.8462253-02	.6754493-02	.6489012-02	.3108736-03	-.2949522-03	-.9626770-04
82	-.1127809-01	.3367457-02	.9209665-02	.1933885-03	-.3930027-03	-.9329855-04
83	.1271886-01	-.7729077-03	.1053133-01	.5161219-04	-.4403764-03	-.8776851-04
84	.1259761-01	-.5143092-02	.1029069-01	-.9612991-04	-.4311805-03	-.8249340-04
85	.1094830-01	-.9193067-02	.8525601-02	-.2309434-03	-.3669707-03	-.8011341-04
86	.8012173-02	-.1242331-01	.5466115-02	-.3361370-03	-.2563394-03	-.8184492-04
87	.4188794-02	-.1445005-01	.1498613-02	-.3994110-03	-.1134785-03	-.8693496-04
88	-.3110930-04	-.1504866-01	-.2888721-02	-.4141361-03	.4391773-04	-.9303632-04
89	-.4146903-02	-.1417155-01	-.7168945-02	-.3796871-03	.1969870-03	-.9729934-04
90	-.7687860-02	-.1194262-01	-.1083879-01	-.3010187-03	.3279122-03	-.9763990-04
91	-.1027507-01	-.8633940-02	-.1347355-01	-.1877133-03	.4217827-03	-.9370911-04
92	-.2163674-01	-.6407496-02	-.1528491-01	-.5310896-04	.4657327-03	-.8655193-04
93	-.2146265-01	.1230097-02	-.1508186-01	.8423780-04	.4599731-03	-.8034320-04
94	-.1874398-01	.8359695-02	-.1314470-01	.2125119-03	.4023293-03	-.7737671-04
95	-.1375253-01	.1413574-01	-.9689044-02	.3167567-03	.2990223-03	-.7919857-04
96	-.7028795-02	.1785353-01	-.5111846-02	.3841371-03	.1617144-03	-.8509031-04
97	.6540303-03	.1903751-01	.4647803-04	.4055672-03	.6504898-05	-.9229677-04
98	.8363553-02	.1751150-01	.5160995-02	.3772811-03	-.1477618-03	-.9734970-04
99	.1512305-01	.1343625-01	.9598767-02	.3019074-03	-.2818216-03	-.9783813-04
100	.2005266-01	.7301363-02	.1280336-01	.1885580-03	-.3786488-03	-.9360452-04

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101	.2250705-01	-.1330758-03	.1437257-01	.5169465-04	-.4259411-03	-.8676019-04
102	.2217743-01	-.7938185-02	.1411443-01	-.9104654-04	-.4178993-03	-.8058953-04
103	.1913350-01	-.1514379-01	.1207098-01	-.2215462-03	-.3559461-03	-.7792772-04
104	.1379961-01	-.2086868-01	.8507472-02	-.3237851-03	-.2483155-03	-.7988515-04
105	.6876451-02	-.2443204-01	.3871475-02	-.3858548-03	-.1086985-03	-.8541990-04
106	-.7691341-01	-.2543070-01	-.1268249-02	-.4011657-03	.4571973-04	-.9192992-04
107	-.8222756-02	-.2377513-01	-.6297317-02	-.3688318-03	.1964682-03	-.9645596-04
108	-.1462707-01	-.1968674-01	-.1062118-01	-.2933711-03	.3259362-03	-.9692678-04
109	-.1926863-01	-.1366124-01	-.1373739-01	-.1839161-03	.4192457-03	-.9306165-04
110	-.3141034-01	-.8126235-02	-.1514520-01	-.5305713-04	.4702090-03	-.8765082-04
111	-.3109509-01	.2885977-02	-.1495518-01	.7925210-04	.4647938-03	-.8081383-04
112	-.2709362-01	.1314367-01	-.1288491-01	.2030102-03	.4032474-03	-.7742651-04
113	-.1991933-01	.2142814-01	-.9164684-02	.3036623-03	.2922255-03	-.7940952-04
114	-.1006809-01	.2672996-01	-.4221027-02	.3694157-03	.1442500-03	-.8607733-04
115	.1033565-02	.2837423-01	.1362919-02	.3908038-03	-.2334048-04	-.9422095-04
116	.1213773-01	.2611914-01	.6910439-02	.3642369-03	-.1901855-03	-.9973293-04
117	.2184058-01	.2020725-01	.1173383-01	.2921298-03	-.3354199-03	-.9985474-04
118	.2888595-01	.1135111-01	.1522743-01	.1832620-03	-.4405853-03	-.9464731-04
119	.3236102-01	.6468489-03	.1695318-01	.5162128-04	-.4923526-03	-.8683348-04
120	.3183612-01	-.1057274-01	.1670140-01	-.8578447-04	-.4844335-03	-.8020571-04
121	.2741796-01	-.2091928-01	.1451558-01	-.2115664-03	-.4183127-03	-.7774297-04
122	.1971331-01	-.2913200-01	.1067984-01	-.3103719-03	-.3027762-03	-.8038490-04
123	.9721454-02	-.3423472-01	.5675197-02	-.3707335-03	-.1524757-03	-.8673067-04
124	-.1317520-02	-.3564605-01	.1137920-03	-.3862438-03	.1414453-04	-.9381282-04
125	-.1208567-01	-.3323355-01	-.5338431-02	-.3559183-03	.1771897-03	-.9852736-04
126	-.2133827-01	-.2731340-01	-.1003906-01	-.2839148-03	.3175953-03	-.9885239-04
127	-.2802943-01	-.1860141-01	-.1343973-01	-.1788977-03	.4191578-03	-.9466557-04
128	.1630321-01	.3520808-01	.1000000+01	.2344684-03	-.9934766-02	.4837640-03
129	.2011529-01	.2929684-01	.9796987+00	-.2764390-02	-.9457658-02	.4729973-03
130	.2176276-01	.2239681-01	.9138467+00	-.5457064-02	-.7947774-02	.4702230-03
131	.2089375-01	.1530905-01	.8098822+00	-.7525046-02	-.5572203-02	.4766322-03
132	.1747320-01	.8912967-02	.6798649+00	-.8708952-02	-.2603313-02	.4891546-03
133	.1183527-01	.4044548-02	.5392558+00	-.8846051-02	.6074314-03	.5027783-03
134	.4665998-02	.1368249-02	.4051201+00	-.7898811-02	.3669454-02	.5124286-03
135	-.3090891-02	.1268746-02	.2940373+00	-.5967416-02	.6201456-02	.5133958-03
136	-.1035622-01	.3777081-02	.2192213+00	-.3284818-02	.7882678-02	.5038644-03
137	-.1610984-01	.8555894-02	.1921105+00	-.1891883-03	.8498582-02	.4862350-03
138	-.1957517-01	.1495123-01	.2140470+00	.2923426-02	.7972366-02	.4668005-03
139	-.2035993-01	.2210393-01	.2828216+00	.5657699-02	.6375441-02	.4533486-03
140	-.1850801-01	.2909378-01	.3896395+00	.7675042-02	.3915355-02	.4525560-03
141	-.1444580-01	.3508484-01	.5210976+00	.8739021-02	.9042250-03	.4655707-03
142	-.8817943-02	.3943108-01	.6610526+00	.8743351-02	-.2286465-02	.4853395-03
143	-.2301367-02	.4171477-01	.7927467+00	.7713799-02	-.5275629-02	.5005223-03
144	.4468790-02	.4173487-01	.9007595+00	.5788337-02	-.7716417-02	.5044123-03
145	.1087868-01	.3949577-01	.9726020+00	.3196558-02	-.9330539-02	.4969158-03
146	.3918237-02	-.3546372-02	-.2032847-01	.2920068-03	.2509381-03	-.6487464-04
147	-.3143518-02	-.4351310-02	-.1699156-01	.2567123-03	-.2874631-03	-.6884355-04
148	-.3926464-02	.2690561-02	-.1717691-01	-.2792753-03	-.2574307-03	-.7220525-04
149	.3130027-02	.3477334-02	-.2046966-01	-.2533584-03	.2739517-03	-.7188254-04
150	.2768750-04	.5412455-03	-.2089910-01	.2709811-03	.2475908-03	-.6867909-04

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151	.1122059-02	-.6711218-03	-.1644734-01	.2418017-03	-.2700654-03	-.6539948-04
152	-.1920658-03	-.1693878-02	-.1674222-01	-.2711112-03	-.2359160-03	-.6442615-04
153	-.1202764-02	-.3161363-03	-.2113880-01	-.2311600-03	.2751884-03	-.6709300-04
154	-.4614911-02	.1979414-02	-.1960155-01	.1356919-03	.2567036-03	-.3565867-04
155	-.3667000-02	.3299586-02	-.1922965-01	.2020207-03	.2478318-03	-.5581724-04
156	-.2394320-02	.2690230-02	-.1906367-01	.2203148-03	.2555852-03	-.7960196-04
157	-.1453548-03	.8858533-03	-.1904161-01	.2078889-03	.2510205-03	-.1017406-03
158	.1938341-02	-.9646197-03	-.1871079-01	.2718048-03	.2812506-03	-.7502668-04
159	.3750860-02	-.2868646-02	-.1899155-01	.2717306-03	.2750372-03	-.7495169-04
160	-.1809661-02	-.4322798-02	-.1884791-01	.3735562-03	.9913847-04	-.7415597-04
161	-.6571361-03	-.4730446-02	-.1862649-01	.3758482-03	-.1058257-03	-.7426266-04
162	-.3002472-02	-.4021936-02	-.1866759-01	.2842443-03	-.2820295-03	-.6793218-04
163	-.4779666-02	-.1962019-02	-.1863705-01	.1044627-03	-.3932174-03	-.6056329-04
164	-.4665567-02	.3257111-03	-.1866218-01	-.9018474-04	-.3755282-03	-.1442876-04
165	-.3870988-02	.2681392-02	-.1874263-01	-.2692495-03	-.2801134-03	-.1852822-07
166	-.1960447-02	.4278497-02	-.1887494-01	-.3747442-03	-.1033350-03	-.1707177-05
167	.5973065-03	.4440957-02	-.1888108-01	-.3402117-03	.1284769-03	-.7197644-04
168	.2767304-02	.3535685-02	-.1901335-01	-.2341637-03	.2862922-03	-.7368202-04
169	.4200317-02	.1672401-02	-.1908344-01	-.6230332-04	.3698990-03	-.6969216-04
170	.4508849-02	-.6573503-03	-.1907394-01	.1305213-03	.3572214-03	-.6496091-04
171	.2320215-02	-.4059491-01	-.3793146-01	-.2571730-02	-.1270083-03	-.2528056-04
172	.7186399-01	-.5019428-02	-.2683243-01	-.1972774-03	-.2584628-02	-.3287793-04
173	.3982033-02	-.7206867-01	-.3792283-01	-.2575677-02	-.1003267-03	-.2479828-04
174	-.7097873-01	-.1288667-01	-.4280670-01	-.4216360-03	.2523286-02	-.4522874-04
175	-.3767334-02	.6607801-01	-.3925015-01	.2167175-02	.1076752-03	-.5099230-04
176	-.3920198-01	-.1623199-02	-.4848651-01	-.3987783-03	.2244639-02	-.6381418-04
177	.3979823-01	-.2598859-02	-.2810810-01	-.1707618-03	-.2194380-02	-.5293792-04
178	-.2453665-02	.3966830-01	-.3877079-01	.2269177-02	.8306425-04	-.3473265-04
179	-.2104885-02	.3142373-01	-.3867233-01	.2276303-02	.1057947-03	-.4004925-04
180	.3160016-01	.1947403-02	-.3035562-01	.1139275-03	-.2248179-02	-.2476858-04
181	.2082628-02	-.3170934-01	-.3794470-01	-.2284338-02	-.1060701-03	-.1337857-04
182	-.3163128-01	-.2239172-02	-.4626716-01	-.1087192-03	.2248555-02	-.2668591-04
183	-.1036771-02	.8279365-02	-.3873678-01	.2236227-02	.9635468-04	-.4857390-04
184	.8476043-02	.8266385-03	-.2867713-01	.1075244-03	-.2233873-02	-.3962011-04
185	.1018108-02	-.8669654-02	-.3785135-01	-.2237401-02	-.1105491-03	-.4559012-04
186	-.8482688-02	-.1227561-02	-.4791497-01	-.1075819-03	.2224822-02	-.5116026-04
187	-.1532214-02	.1925922-01	-.3870730-01	.2236888-02	.9988076-04	-.4699791-04
188	.1944375-01	.1348532-02	-.2935277-01	.1040181-03	-.2237399-02	-.4615262-04
189	.1532339-02	-.1962648-01	-.3788357-01	-.2237903-02	-.1059579-03	-.4520600-04
190	-.1944216-01	-.115704-02	-.4724271-01	-.1022684-03	.2233718-02	-.4603550-04
191	-.2032763-02	.1198485-01	-.3841239-01	.5779759-02	.8881981-04	-.5569787-04
192	-.2541562-02	.4099486-01	-.3836934-01	.3219252-02	-.1088159-03	-.4440989-04
193	-.3793326-02	.6893853-01	-.3842394-01	.2728535-02	.1180368-03	-.2742240-04

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VIBRATIONAL MODE

ID= 27 1/ 13

EIGENVAL UE= .1659461+06, FREQ= 64.8341 HZ

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1	-.3334888-04	-.3131253-06	.6884027-04	-.2171449-05	.2664553-04	.3179358-05
2	-.1656798-04	.1034365-04	.9482958-04	.7050992-05	.1657083-04	-.6295116-05
3	.4724330-04	.3784398-06	.1788287-03	.8168633-05	-.1027992-04	-.8210911-05
4	.7861505-04	-.3077818-04	.2267583-03	.1036138-05	-.2657332-04	-.8876786-06
5	.2601842-04	-.5672318-04	.1958579-03	-.7638568-05	-.1792194-04	.8738865-05
6	-.8183486-04	-.4115326-04	.1136386-03	-.8769757-05	.8840397-05	.1211240-04
7	-.1444745-03	.1687716-04	.6188599-04	-.1639736-05	.2723512-04	.2982710-05
8	-.1004929-03	.7950629-04	.8957338-04	.7574768-05	.1747325-04	-.6959230-05
9	.1135222-04	.1031679-03	.1733703-03	.9959999-05	-.8728491-05	-.7684896-05
10	.9626433-04	.7611453-04	.2338795-03	.2879638-05	-.2686868-04	-.4924211-06
11	.9246824-04	.2901731-04	.2138937-03	-.6247624-05	-.1988204-04	.9422972-05
12	.2044032-04	-.2216142-05	.1282872-03	-.9361354-05	.6983036-05	.1099824-04
13	-.1295696-04	.5269019-04	-.2802051-04	.1000616-05	.7317768-05	.1660160-05
14	.2600326-04	.4658251-04	-.1956998-04	.5143754-05	.8354766-05	.1923554-05
15	.3273400-04	.2965077-04	.1249915-05	.8194137-05	.5857895-05	.2083835-05
16	.3433981-04	.1079043-04	.3007877-04	.8380403-05	.9975711-06	.2403259-05
17	.2948749-04	-.6418876-05	.5892631-04	.5788795-05	-.4198431-05	.2191518-05
18	.1072893-04	-.1716448-04	.7728433-04	.2141316-05	-.6344351-05	.2302004-05
19	-.1152790-04	-.1538206-04	.8197832-04	-.1925920-05	-.6262739-05	.2495878-05
20	-.2769974-04	-.5113051-05	.8117028-04	-.5564990-05	-.4745042-05	.2435600-05
21	-.3793619-04	.3185162-05	.6467691-04	-.8132285-05	-.1647682-05	.2291915-05
22	-.4082615-04	.2748059-04	.3511913-04	-.8876087-05	.2420346-05	.2285639-05
23	-.3364030-04	-.4533902-04	.4075422-05	-.7102785-05	.6364257-05	.2300403-05
24	-.1651423-04	.5723390-04	-.1908670-04	-.3295683-05	.9053368-05	.2224504-05
25	.1943348-03	-.2405885-04	.5571121-04	.6726026-06	-.1059604-04	.1234703-05
26	.1515366-03	-.1188639-03	.4745954-04	-.4763438-05	-.9568847-05	.1264084-05
27	.6814866-04	-.1759265-03	.1970908-04	-.8926016-05	-.5900595-05	.1262543-05
28	-.3359788-04	-.1853624-03	-.2024244-04	-.1069564-04	-.6722904-06	.1256408-05
29	-.1264146-03	-.1424909-03	-.6165298-04	-.9588579-05	.4779927-05	.1240236-05
30	-.1852933-03	-.5879279-04	-.9327579-04	-.5904201-05	.8882773-05	.1230817-05
31	-.1945552-03	.4327373-04	-.1066642-03	-.6588716-06	.1058286-04	.1339782-05
32	-.1515700-03	.1362927-03	-.9807204-04	.4771365-05	.9521244-05	.1291906-05
33	-.6794534-04	.1952986-03	-.7009371-04	.8915147-05	.5866322-05	.1297302-05
34	.3383531-04	.2044862-03	-.3013312-04	.1066962-04	.6453080-06	.1341305-05
35	.1265115-03	.1614220-03	.1100531-04	.9568454-05	-.4753308-05	.1343707-05
36	.1851608-03	.7774690-04	.4236966-04	.5907859-05	-.8853054-05	.1344605-05
37	.3251194-04	.4338974-05	.1447543-03	.2359584-06	.8893681-06	.1360647-05
38	.1846447-02	.9530302-04	.4831037-02	.1238368-03	-.1564321-02	.9681456-05
39	.1655708-02	-.3156114-03	.4307151-02	-.2703572-03	-.1382885-02	.6332081-04
40	.7059101-03	-.5884936-03	.1827052-02	-.5381329-03	-.5496443-03	.8749164-04
41	-.5638188-03	-.6008017-03	-.1448511-02	-.5541394-03	.5451846-03	.7088755-04
42	-.1566067-02	-.3497384-03	-.3986266-02	-.3108441-03	.1388862-02	.2128755-04
43	-.1839208-02	.4679969-04	-.4527938-02	.7795010-04	.1586086-02	-.3808647-04
44	-.1262505-02	.4054384-03	-.2996346-02	.4303564-03	.1044028-02	-.7943829-04
45	-.1117143-03	.5628639-03	.7013417-04	.5815141-03	.1583902-04	-.8340703-04
46	.1070685-02	.4516931-03	.3167638-02	.4607123-03	-.1017722-02	-.4812623-04
47	.1729794-02	.1312443-03	.4847595-02	.1244609-03	-.1573206-02	.9903532-05
48	.1558094-02	-.2410946-03	.4324395-02	-.2699544-03	-.1390679-02	.6353654-04
49	.6392125-03	-.8844019-03	.1842919-02	-.5380388-03	-.5553574-03	.8768049-04
50	-.5915999-03	-.4796859-03	-.1436010-02	-.5544025-03	.5422342-03	.7103490-04

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51	-.1551726-02	-.2261896-03	-.3978732-02	-.3114299-03	.1388978-02	.2137808-04
52	-.1784578-02	.1578926-03	-.4596296-02	.7715010-04	.1589206-02	-.3806892-04
53	-.1174131-02	.4906719-03	-.3000720-02	.4294758-03	.1049778-02	-.7950401-04
54	-.1098425-06	.6119403-03	.6036291-04	.5806583-03	.2358255-04	-.8355069-04
55	.1192162-02	.4566798-03	.3153669-02	.4599455-03	-.1008871-02	-.4832525-04
56	.3224895-01	.3552299-02	.1913313-01	.3907864-03	-.1385617-02	-.4486528-03
57	.2912945-01	-.8157008-02	.1736777-01	-.8463631-03	-.1250740-02	.1005338-02
58	.1238560-01	-.1606384-01	.7523823-02	-.1687379-02	-.5303048-03	.1988738-02
59	-.1015184-01	-.1646995-01	-.5791099-02	-.1738569-02	.4385145-03	.2041399-02
60	-.2794149-01	-.2185350-02	-.1634921-01	-.9758721-03	.1202267-02	.1138682-02
61	-.3266328-01	.2382740-02	-.1919448-01	.2438737-03	.1403432-02	-.2970129-03
62	-.2211116-01	.1282428-01	-.1300503-01	.1349926-02	.9477319-03	-.1593907-02
63	-.1224700-02	.1725706-01	-.6689611-03	.1824719-02	.4825399-04	-.2145176-02
64	.2022237-01	.1361110-01	.1204426-01	.1446034-02	-.8742558-03	-.1692882-02
65	.3219549-01	.3596507-02	.1918808-01	.3909571-03	-.1388252-02	-.4486535-03
66	.2909436-01	-.8097175-02	.1742096-01	-.8469840-03	-.1253293-02	.1005328-02
67	.1237318-01	-.1599563-01	.7569576-02	-.1688726-02	-.5325228-03	.1988731-02
68	-.1014016-01	-.1640161-01	-.5757998-02	-.1740574-02	.4368756-03	.2041406-02
69	-.2790724-01	-.9125112-02	-.1632820-01	-.9783746-03	.1201438-02	.1138701-02
70	-.3261067-01	.2382740-02	-.1919448-01	.2438737-03	.1403432-02	-.2970129-03
71	-.2204643-01	.1284849-01	-.1302837-01	.1347473-02	.9488412-03	-.1593909-02
72	-.1155541-02	.1725760-01	-.7086428-03	.1822876-02	.5016804-04	-.2145191-02
73	.2028766-01	.1358788-01	.1199375-01	.1445011-02	-.8718232-03	-.1692894-02
74	.7003032-01	.8234982-02	.3220749-01	.4861851-03	-.1625072-02	-.7341427-03
75	.6379010-01	-.1733749-01	.2944496-01	-.9876652-03	-.1478751-02	.1528720-02
76	.2769370-01	-.3481266-01	.1294348-01	-.1999232-02	-.6401661-03	.3076009-02
77	-.2136984-01	-.3601068-01	-.9572657-02	-.2074926-02	.4981782-03	.3183576-02
78	-.6044209-01	-.2036818-01	-.2756282-01	-.1179232-02	.1403435-02	.1801110-02
79	-.7124000-01	.4797904-02	-.3260401-01	.2686859-03	.1651830-02	-.4243496-03
80	-.4871150-01	.2771444-01	-.2233316-01	.1591232-02	.1127001-02	-.2451359-02
81	-.3398121-02	.3766110-01	-.1552662-02	.2169540-02	.7441805-04	-.3331482-02
82	.4349942-01	.2998612-01	.2001756-01	.1733034-02	-.1013518-02	-.2653050-02
83	.7004146-01	.8281988-02	.3228809-01	.4859291-03	-.1627892-02	-.7336328-03
84	.6381380-01	-.1729620-01	.2951995-01	-.9884092-03	-.1481343-02	.1528672-02
85	.2773399-01	-.3478227-01	.1300838-01	-.2000407-02	-.6424555-03	.3075451-02
86	-.2131494-01	-.3599721-01	-.9523706-02	-.2076795-02	.4963669-03	.3183078-02
87	-.6038321-01	-.2037533-01	-.2753831-01	-.1181930-02	.1402456-02	.1801165-02
88	-.7119094-01	.4771235-02	-.3261140-01	.2655198-03	.1652037-02	-.4238079-03
89	-.4868098-01	.2767377-01	-.2237352-01	.1588374-02	.1128468-02	-.2450871-02
90	-.3385964-02	.3761339-01	-.1618593-02	.2167696-02	.7683592-04	-.3331535-02
91	.4349836-01	.2993694-01	.1993851-01	.1732399-02	-.1010677-02	-.2653601-02
92	.1143366+00	.1371759-01	.4255598-01	.5414906-03	-.1742917-02	-.1021298-02
93	.1045282+00	-.2790133-01	.3903622-01	-.1068331-02	-.1587415-02	.2062460-02
94	.4578651-01	-.5647924-01	.1728257-01	-.2178092-02	-.6888283-03	.4180826-02
95	-.3439884-01	-.5863632-01	-.1252147-01	-.2268182-02	.5322181-03	.4342227-02
96	-.9849957-01	-.3335796-01	-.3642272-01	-.1296364-02	.1504118-02	.2471169-02
97	-.1165159+00	.7529958-02	-.4323058-01	.2824810-03	.1771884-02	-.5564107-03
98	-.8001702-01	.4489659-01	-.2975520-01	.1729395-02	.1210116-02	-.3323523-02
99	-.6082208-02	.6125916-01	-.2299251-02	.2367304-02	.8162927-04	-.4535440-02
100	.7069638-01	.3896309-01	.2629358-01	.1897850-02	-.1085628-02	-.3625492-02

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101	.1144019+00	.1376142-01	.4264936-01	.5407811-03	-.1745655-02	-.1019831-02
102	.1045951+00	-.2787890-01	.3911954+01	-.1069090-02	-.1589793-02	.2062326-02
103	.4587003-01	-.5648160-01	.1735642-01	-.2178878-02	-.6910069-03	.4179239-02
104	-.3479870-01	-.5867113-01	-.1246136-01	-.2269666-02	.5303126-03	.4340769-02
105	-.9840796-01	-.3342829-01	-.3638950-01	-.1299072-02	.1502969-02	.2471305-02
106	-.1164669+00	.7433289-02	.4323884-01	.2789256-03	.1772077-02	-.5548336-03
107	-.8002645-01	.4479310-01	-.2980877-01	.1726182-02	.1211823-02	-.3322070-02
108	-.6136182-02	.6116858-01	-.2385779-02	.2365550-02	.8439013-04	-.4535550-02
109	.7062736-01	.4889580-01	.2619534-01	.1897714-02	-.1082600-02	-.3627078-02
110	.1687959+00	.2085454-01	.5132039-01	.5965570-03	-.2046817-02	-.1362484-02
111	.1550983+00	-.4048289-01	.4727357-01	-.1135730-02	-.1865754-02	.2635289-02
112	.6878407-01	-.8289015-01	.2113211-01	-.2336368-02	-.8113971-03	.5399483-02
113	-.4974690-01	-.8651023-01	-.1486540-01	-.2443156-02	.6226691-03	.5635996-02
114	-.1450121+00	.4964203-01	-.4386526-01	-.1406075-02	.1765072-02	.3234328-02
115	-.1724219+00	.1046401-01	-.5228956-01	.2893801-03	.2080988-02	-.6809940-03
116	-.1191505+00	.6568159-01	-.3619223-01	.1849553-02	.1422507-02	-.4277171-02
117	-.1013133-01	.9017382-01	-.3104873-02	.2544329-02	.9777796-04	-.5871480-02
118	.1036244+00	.7248285-01	.3149275-01	.2048904-02	-.1273390-02	-.4718760-02
119	.1689055+00	.2088624-01	.5141886-01	.5953257-03	-.2049651-02	-.1359333-02
120	.1551889+00	-.4048191-01	.4735689-01	-.1136465-02	-.1868057-02	.2634956-02
121	.6890210-01	-.8292197-01	.2120901-01	-.2336655-02	-.8136486-03	.5396094-02
122	-.4959171-01	-.8659032-01	-.1479607-01	-.2444149-02	.6204285-03	.5632878-02
123	-.1448697+00	-.4977845-01	-.4382206-01	-.1408758-02	.1763538-02	.3234552-02
124	-.1723664+00	.1028894-01	-.5229650-01	.2853606-03	.2081106-02	-.6775991-03
125	-.1192151+00	.6550828-01	-.3625764-01	.1845884-02	.1424606-02	-.4273944-02
126	-.1027656-01	.9004166-01	-.3210367-02	.2542676-02	.1011659-03	-.5871739-02
127	.1034754+00	.7240631-01	.3137980-01	.2049375-02	-.1269900-02	-.4722252-02
128	-.2629285+00	-.4500882-01	-.9980993+00	-.5717195-02	.2970425-01	.2859569-02
129	-.2582289+00	.5444934-01	-.8492231+00	.2375751-01	.2514555-01	-.3396230-02
130	-.1327553+00	.1283698+00	-.3038647+00	.4211522-01	.8815906-02	-.8065281-02
131	.5482799-01	.1421841+00	.3827797+00	.4076554-01	-.1164357-01	-.8964808-02
132	.2167966+00	.8942152-01	.0893937+00	.2033794-01	-.2665914-01	-.5673322-02
133	.2773975+00	-.5251076-02	.9788466+00	-.9612656-02	-.2920310-01	.2705766-03
134	.2082522+00	-.9756033-01	.6091580+00	-.3507412-01	-.1808216-01	.6088809-02
135	.4165231-01	-.1443224+00	-.4683322-01	-.4413261-01	.1503456-02	.9059892-02
136	-.1444935+00	-.1236931+00	-.6823076+00	.3254804-01	.2039241-01	.7790619-02
137	-.2630666+00	-.4518055-01	-.1000000+01	-.5736849-02	.2974816-01	.2871822-02
138	-.2585385+00	.5435591-01	-.8512793+00	.2375896-01	.2519333-01	-.3394829-02
139	-.1329915+00	.1283816+00	-.3057128+00	.4213927-01	.8858576-02	-.8076422-02
140	-.5481871-01	.1422396+00	.3814462+00	.4080362-01	-.1161342-01	-.8977570-02
141	.2169343+00	.8944528-01	.8886950+00	.2037763-01	-.2664399-01	-.5675002-02
142	.2774451+00	-.5270772-02	.9782397+00	-.9577531-02	-.2920130-01	.2821590-03
143	.2080753+00	-.9755820-01	.6095784+00	-.3504121-01	-.1809182-01	.6101590-02
144	.4136833-01	-.1442293+00	-.4588750-01	-.4409893-01	.1482185-02	.9060824-02
145	-.1446331+00	-.1234651+00	-.6808317+00	-.3251647-01	.2035880-01	.7779145-02
146	.4797619-04	.4877703-04	-.1590252-04	.1373403-05	.1084770-04	.007901-05
147	.3686117-04	-.3643244-04	.6030563-04	.1075486-04	-.1442928-05	.1827385-05
148	-.4767428-04	-.2584315-04	.1179868-03	-.1559164-05	-.1074565-04	.1744514-05
149	-.3652557-04	.5832526-04	.4123649-04	-.1082396-04	.1632953-05	.1708571-05
150	-.1236382-03	.7663637-04	-.4252110-04	.1605515-05	.1091994-04	.1730250-05

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151	.6024124-04	.1393765-03	.6421483-04	.1094164-04	-.1502010-05	.1786016-05
152	.1228799-03	-.4319624-04	.1446385-03	-.1426305-05	-.1085968-04	.1848454-05
153	-.5949170-04	-.1051882-03	.3866533-04	-.1075456-04	.1457792-05	.1877870-05
154	-.2928807-03	.6322020-04	.4870856-04	.7781072-06	.1057510-04	.2325191-05
155	-.2674443-03	.6632337-04	.5027738-04	.9782205-06	.1055359-04	.2252842-05
156	-.2133591-03	.6869123-04	.5291857-04	.1314769-05	.1061921-04	.2082400-05
157	-.1311980-03	.6264579-04	.5796973-04	.1757554-05	.1108660-04	.2000491-05
158	-.3338645-04	.4457092-04	.5297242-04	.1185951-05	.1104227-04	.2020522-05
159	.3810456-04	.3681728-04	.4136917-04	.1283197-05	.1083367-04	.2004495-05
160	.5387984-04	.1213811-04	.4161075-04	.6586337-05	.8979444-05	.2022968-05
161	.4957394-04	-.1329555-04	.4619859-04	.1000614-04	.4318065-05	.2062672-05
162	.3604201-04	-.4615569-04	.5271236-04	.1130593-04	-.1230251-05	.1850203-05
163	-.2406089-05	-.6536188-04	.5786890-04	.9432236-05	-.7054391-05	.1644789-05
164	.4634096-05	-.5448726-04	.5973849-04	.4569196-05	-.9214611-05	.3925932-06
165	-.2669488-04	-.4732868-04	.6080365-04	-.7995003-06	-.1046853-04	.4641844-09
166	-.4840024-04	-.2302583-04	.5933089-04	-.6308719-05	-.8795578-05	.4277003-07
167	-.5035706-04	.1193669-04	.5461727-04	-.1009012-04	-.4024107-05	.1854141-05
168	-.3846492-04	.3581774-04	.4988363-04	-.1006856-04	.1599435-05	.1842082-05
169	-.1616154-04	.5062231-04	.4552120-04	-.8740389-05	.6799499-05	.1888320-05
170	.1054016-04	.5220379-04	.4267895-04	-.4257661-05	.1018747-04	.1931659-05
171	-.3456036-04	-.2005163-03	-.2278423-04	-.1278966-04	-.6885628-06	.1277249-05
172	.3567570-03	-.6430609-04	.3227007-04	-.9648907-06	-.1284044-04	.1235560-05
173	-.2559548-04	-.3570757-03	-.2281894-04	-.1278030-04	-.5281656-06	.1276468-05
174	-.3634729-03	-.1333636-04	-.8191486-04	-.2157219-05	.1253088-04	.1170418-05
175	.2321279-04	.3407560-03	-.3081704-04	.1077829-04	.7803054-06	.1328553-05
176	-.2059289-03	.1374296-04	-.7604362-04	-.2096480-05	.1120169-04	.1259092-05
177	.1971461-03	-.5216984-04	.2490851-04	-.7896658-06	-.1076311-04	.1325909-05
178	.3326502-04	.2086974-03	-.2834941-04	.1108160-04	.6251288-06	.1429955-05
179	.3562361-04	.1662213-03	-.2771126-04	.1115027-04	.6322115-06	.5991314-06
180	.1825628-03	-.3175162-04	.1377167-04	.6544212-06	-.1113232-04	.6990712-06
181	-.3569434-04	-.1583139-03	-.2308414-04	-.1131251-04	-.7142334-06	.7839820-06
182	-.1626163-03	.3955882-04	-.6462886-04	-.7421168-06	.1107317-04	.6804072-06
183	.4270982-04	.5409107-04	-.2825380-04	.1096145-04	.6670113-06	.1172892-05
184	.4873996-04	-.3736320-04	.2125618-04	.6393306-06	-.1097354-04	.1216494-05
185	-.4277308-04	-.4327913-04	-.2250043-04	-.1106222-04	-.6901864-06	.1182638-05
186	-.4868533-04	.4609866-04	-.7273648-04	-.7439759-06	.1097232-04	.1154614-05
187	.3946029-04	.1076802-03	-.2805233-04	.1100336-04	.6612057-06	.1251066-05
188	.1026790-03	-.3446386-04	.1862839-04	.6663129-06	-.1099676-04	.1258908-05
189	-.3947270-04	-.9767466-04	-.2270351-04	-.1102451-04	-.6759876-06	.1261299-05
190	-.1026793-03	.4446255-04	-.6942755-04	-.6662497-06	.1100928-04	.1254090-05
191	.3850918-04	.6141531-04	-.2551198-04	.2943532-04	.1232053-05	-.2548507-06
192	.3283227-04	.2086387-03	-.2547731-04	.1611163-04	.7294436-06	.1213762-05
193	.2659447-04	.3478496-03	-.2552700-04	.1359644-04	.6131619-06	.1056048-05

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VIBRATIONAL MODE, ID= 2 / 1 / 14
EIGENVALUE= .1659542+06, FREQ= 64.8357 HZ

JOINT	1	2	3	4	5	6
1	.4018189-05	.1521996-03	.2072990-04	-.6412392-05	.4928107-05	-.5837574-05
2	.1267725-03	.1266685-03	.1888728-04	-.7734611-05	-.1391744-04	-.3344248-05
3	.1754109-03	.4704089-04	-.1110352-04	-.1249888-04	-.1254003-04	.5114105-05
4	.1099864-03	-.2630315-04	-.1227066-03	-.1036444-04	.1159855-04	.1375951-04
5	.5202413-04	-.5611407-04	-.1828607-03	.1023853-05	.3653449-04	.9474159-05
6	-.5573673-04	-.4259734-04	-.1338617-03	.1673011-04	.3368039-04	-.3044838-06
7	-.3997785-04	-.1902001-04	.1611434-04	.2543810-04	.5440757-05	-.6128066-05
8	-.1210555-07	-.7773312-05	.1819255-03	.2005898-04	-.2835410-04	-.4119752-05
9	-.4174823-05	-.4866348-05	.2642841-03	.4710994-05	-.4161394-04	.6212641-05
10	-.7522403-04	.1740805-04	.2233449-03	-.9733328-05	-.2201740-04	.1381128-04
11	-.1363143-03	.7209431-04	.1196594-03	-.1506527-04	.6520272-05	.8624001-05
12	-.1068458-03	.1352438-03	.3827542-04	-.1075127-04	.1820265-04	.828773-06
13	-.9074838-06	.1800032-03	-.1603489-04	-.2545843-04	.5132392-05	.3508046-05
14	.8886904-04	.1546213-03	-.9267855-04	-.2075020-04	.1039643-04	.3175019-05
15	.1113940-03	.9837651-04	-.1419140-03	-.1040605-04	.2169706-04	.3376987-05
16	.1440325-03	.2652512-04	-.1497653-03	.3612781-05	.2428013-04	.3617171-05
17	.1219545-03	-.4433177-04	-.1146251-03	.1604299-04	.1691244-04	.2335905-05
18	.7385971-04	-.9810232-04	-.5167712-04	.2172759-04	.6249076-05	.2176090-05
19	-.3160931-06	-.1147890-03	.1915245-04	.2101490-04	-.5340112-05	.2576963-05
20	-.7326602-04	-.8855280-04	.8808445-04	.1477874-04	-.1502170-04	.3129084-05
21	-.1221059-03	-.2921558-04	.1180170-03	.3951500-05	-.2069112-04	.3477699-05
22	-.1358247-03	.4262667-04	.1543010-03	-.8808101-05	-.2086737-04	.3581576-05
23	-.1180490-03	.1106023-03	.1268765-03	-.1994082-04	-.505023-04	.3875545-05
24	-.7287830-04	.1608623-03	.6284208-04	-.2600676-04	-.4518425-05	.4359741-05
25	.5287872-04	-.2888521-03	.1588719-04	-.3196092-04	-.2439596-05	-.3454305-06
26	-.9724406-04	-.2772052-03	-.1061905-03	-.2867317-04	.1397780-04	-.3225349-06
27	-.7216914-03	-.1920343-03	-.2006315-03	-.1803323-04	.2644154-04	-.3013451-06
28	-.2870271-03	-.5580094-04	-.2422109-03	-.2419237-05	.3177490-04	-.2611337-06
29	-.2751904-03	.9504750-04	-.2195250-03	.1384253-04	.2873682-04	-.3564946-06
30	-.1894280-03	.2197840-03	-.1387548-03	.2638966-04	.1799549-04	-.3706138-06
31	-.5285844-04	.2848598-03	-.2148331-04	.3187874-04	.2440748-05	-.3302919-06
32	.9787919-04	.2727834-03	.1007867-03	.2884168-04	-.1379027-04	-.3149275-06
33	.7222286-03	.1868471-03	.1951988-03	.1809011-04	-.2627678-04	-.2950189-06
34	.2869849-03	.5023868-04	.2365301-03	.2519838-05	-.3176657-04	-.3686023-06
35	.2745861-03	-.1002469-03	.2136375-03	-.1376139-04	-.2887935-04	-.2926233-06
36	.1888441-03	-.2242273-03	.1329531-03	-.2641567-04	-.1820156-04	-.3134083-06
37	-.1551073-04	-.4546409-03	.3368749-04	.1665222-04	.2892407-06	.3296717-05
38	.3934383-03	-.7668361-03	.9200866-03	-.5715900-03	-.2845576-03	.8636491-04
39	-.9044632-03	-.6986548-03	-.2304089-02	-.5182014-03	.7761682-03	.6057373-04
40	-.1794090-02	-.3703459-03	-.4449390-02	-.2244920-03	.1470726-02	.6706842-05
41	-.1881225-02	.7438985-04	-.4503424-02	.1725498-03	.1469967-02	-.4988811-04
42	-.1142755-02	.4449213-03	-.2448859-02	.4877993-03	.7710711-03	-.8258487-04
43	.6465764-04	.5907794-03	.7515180-03	.5745431-03	-.3007432-03	-.7595649-04
44	.1172836-02	.4692946-03	.3600509-02	.3930172-03	-.1244183-02	-.3300808-04
45	.1668338-02	.1624719-03	.4766997-02	.2890562-04	-.1616402-02	.2621884-04
46	.1332069-02	-.1644152-03	.3708524-02	-.3468362-03	-.1240387-02	.7401799-04
47	.3402387-03	-.3427708-03	.9247042-03	-.5580417-03	-.2881281-03	.8798099-04
48	-.8203790-03	-.2814498-03	-.2277065-02	-.5058047-03	.7993794-03	.6148692-04
49	-.1582928-02	-.1033185-04	-.4393925-02	-.2147656-03	.1517925-02	.6810821-05
50	-.1568553-02	.3338020-03	-.4431315-02	.1784453-03	.1535453-02	-.5060551-04

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51	-.7663209-03	.5724642-03	-.2368813-02	.4891898-03	.8469321-03	..8404057-04
52	.4595167-03	.5710793-03	.8299515-03	.5712811-03	-.2236605-03	-.7797864-04
53	.1538594-02	.3047154-03	.3667981-02	.3854861-03	-.1175168-02	-.3535313-04
54	.1960910-02	-.1271523-03	.4815371-02	.1797663-04	-.1563767-02	.2383711-04
55	.1516103-02	-.5441703-03	.3731864-02	-.3598673-03	-.1210478-02	.7189067-04
56	.6861037-02	-.1620386-03	.4171606-02	-.1768507-02	-.2925010-03	.2084204-02
57	-.1534461-01	-.1526598-01	-.8936116-02	-.1601103-02	.6605133-03	.1882489-02
58	-.3037796-01	-.6527830-02	-.1784862-01	-.6871156-03	.1304165-02	.7992286-03
59	-.3120798-01	.5224116-02	-.1837759-01	.5516497-03	.1336892-02	-.6587013-03
60	-.1745431-01	.1449647-01	-.1027925-01	.1533201-02	.7430660-03	-.1809106-02
61	.4441797-02	.1695823-01	.2665127-02	.1797703-02	-.1996481-03	-.2113694-02
62	.2423216-01	.1146726-01	.1439987-01	.1220922-02	-.1050193-02	-.1429945-02
63	.3265729-01	.6025982-03	.1943235-01	.7252996-04	-.1410487-02	-.7778784-04
64	.2577862-01	-.1054300-01	.1540324-01	-.1110637-02	-.1111710-02	.310106-02
65	.6821778-02	-.1674721-01	.4191118-02	.1775126-02	-.2933259-03	.2084343-02
66	-.1533514-01	-.1510254-01	-.8965772-02	-.1610132-02	.6621351-03	.1882649-02
67	-.3031499-01	-.6377369-02	-.1701960-01	-.6928489-03	.1308018-02	.7994002-03
68	-.3109926-01	.5303479-02	-.1848868-01	.5476519-03	.3342497-02	-.6585422-03
69	-.1731297-01	.1457030-01	-.1041313-01	.1531188-02	.7497540-03	-.180895-02
70	.4598805-02	.1697786-01	.2524358-02	-.1797910-02	-.1926653-03	-.2113658-02
71	.2438607-01	.1143019-01	.1426903-01	.1223419-02	-.1043744-02	-.1429982-02
72	.3278455-01	.5132246-03	.1932728-01	.7691583-04	-.1405355-02	-.7787271-04
73	.2587335-01	-.1067392-01	.1533685-01	-.1104811-02	-.1108534-02	.1309993-02
74	.1570196-01	.3655660-01	.7354223-02	-.2098646-02	-.3611800-03	.3230629-02
75	-.3268881-01	-.3329873-01	-.1484155-01	-.1917144-02	.7603208-03	.2942699-02
76	-.6577535-01	-.1447356-01	-.3007084-01	-.8371272-03	.1525646-02	.1276966-02
77	-.6807163-01	.1110653-01	-.3119274-01	.6358998-03	.1576155-02	-.9872056-03
78	-.3849997-01	.3146714-01	-.1766998-01	.1812347-02	.8877635-03	-.2790398-02
79	.9103769-02	.3707534-01	.4177680-02	.2141230-02	-.2177012-03	-.3288827-02
80	.5246352-01	.2530118-01	.2412922-01	.1868080-02	-.1223037-02	-.2249221-02
81	.7128669-01	.1649130-02	.3284482-01	.1073415-03	-.1657668-02	-.1579948-03
82	.5676028-01	-.2281678-01	.2623706-01	-.1304679-02	-.1317884-02	.2006299-02
83	.1567592-01	-.3664981-01	.7385028-02	-.2107543-02	-.3622160-03	.3230906-02
84	-.3274772-01	-.3337667-01	-.1490513-01	-.1925722-02	.7626966-03	.2942806-02
85	-.6585738-01	-.1452656-01	-.3021929-01	-.8442956-03	.1531051-02	.1276834-02
86	-.6816494-01	.1108414-01	-.3140675-01	.6308771-03	.1583863-02	-.9874102-03
87	-.3859402-01	.3147706-01	-.1792418-01	.1809894-02	.8968695-03	-.2790438-02
88	.9017706-02	.3711612-01	.3982128-02	.2141590-02	-.2081999-03	-.3288651-02
89	.5239392-01	.2536860-01	.2388294-01	.1471333-02	-.1214213-02	-.2248987-02
90	.7124254-01	.1736060-02	.3264792-01	.1132793-03	-.1650609-02	-.1579470-03
91	.5674961-01	-.2272054-01	.2611516-01	-.1296717-02	-.1313539-02	.2006094-02
92	.2619760-01	-.5929346-01	.9920943-02	-.2288269-02	-.3894001-03	.4394796-02
93	-.5292562-01	-.5420087-01	-.1948067-01	-.2097564-02	.8136696-03	.4017572-02
94	-.1072678-00	-.2373082-01	-.3974385-01	-.9238956-03	.1635593-02	.1759600-02
95	-.1113844+00	.1785077-01	-.4136836-01	.6834781-03	.1691211-02	-.1322802-02
96	-.6333362-01	.5107293-01	-.2357766-01	.1972125-02	.9539848-03	-.3787431-02
97	.1440989-01	.6037158-01	.5314176-02	.2338489-02	-.2314565-03	-.4480904-02
98	.8546835-01	.4137523-01	.3179035-01	.1610463-02	-.1310487-02	-.3078513-02
99	.1165826+00	.2954033-02	.4345608-01	.1281348-03	-.1778009-02	-.2363934-03
100	.9317929-01	-.3692811-01	.3484064-01	-.1415258-02	-.1414884-02	.2715416-02

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101	.2619307-01	-.5961837-01	.9959441-02	-.2297764-02	-.3905516-03	.4395558-02
102	-.5304873-01	-.5450261-01	-.1956350-01	-.2106594-02	.8162239-03	.4017815-02
103	-.1074851+00	-.2397192-01	-.3993358-01	-.9312500-03	.1641357-02	.1759108-02
104	-.1116624+00	.1769682-01	-.4163858-01	.6784329-03	.1699343-02	-.1323515-02
105	-.6364117-01	.5102105-01	-.2389679-01	.1969627-02	.9635492-03	-.3787639-02
106	.1410066-01	.6092693-01	.4980182-02	.2338725-02	-.2214241-03	-.4480393-02
107	.8518738-01	.4153366-01	.3147831-01	.1613659-02	-.1301053-02	-.3077780-02
108	.1163659+00	.3200108-02	.4320464-01	.1342700-03	-.1770356-02	-.2361825-03
109	.9306257-01	-.3662296-01	.3468453-01	-.1406810-02	-.1410123-02	.2714891-02
110	.3985784-01	-.8709269-01	.1226953-01	-.2457128-02	-.4595144-03	.5682597-02
111	-.7721226-01	-.8003208-01	-.2327539-01	-.2261930-02	.9535474-03	.5221494-02
112	-.1581318+00	-.3597404-01	-.4790658-01	-.1006902-02	.1919972-02	.2316407-02
113	-.1650062+00	.2571958-01	-.5007726-01	.7207483-03	.1986905-02	-.1673878-02
114	-.9456752-01	.7489173-01	-.2875182-01	.2112340-02	.1122395-02	-.4882506-02
115	.2019524-01	.8900039-01	.6104234-02	.2516090-02	-.2694552-03	-.5807785-02
116	.1256335+00	.6140632+01	.3818357-01	.1742281-02	-.1537436-02	-.4016169-02
117	.1723716+00	.4987587-02	.5246737-01	.1523910-03	-.2087958-02	-.3458309-03
118	.1385133+00	-.5388127-01	.4225758-01	-.1509915-02	-.1662970-02	.3485325-02
119	.3987647-01	-.8767037-01	.1231424-01	-.2466985-02	-.4608152-03	.5684233-02
120	-.7741195-01	-.8057655-01	-.2337159-01	-.2271173-02	.9565783-03	.5222026-02
121	-.1585015+00	-.3591669-01	-.4812405-01	-.1014195-02	.1926640-02	.2315304-02
122	-.1654825+00	-.2542583-01	-.5638319-01	.7158759-03	.1996157-02	-.1675511-02
123	-.9511821-01	.7477290-01	-.2911110-01	.2109863-02	.1133189-02	-.4883003-02
124	-.1964971-01	.8206799-01	-.5226782-02	.2516119-02	-.2580908-03	-.5806659-02
125	.1251205+00	.6165857-01	.3782714-01	.1745234-02	-.1526624-02	-.4014546-02
126	.1719584+00	.5403352-02	.5217686-01	.1584990-03	-.2079085-02	-.3453395-03
127	.1382738+00	-.5334932-01	.4207592-01	-.1501219-02	-.1657426-02	.3484210-02
128	-.8793282-01	.1375116+00	-.1311527+00	.4346289-01	.3708168-02	-.8649912-02
129	.1007254+00	.1340046+00	.5351341+00	.3694448-01	-.1612711-01	-.8459194-02
130	.2422557+00	.6773728-01	.9503951+00	.1312167-01	-.2840890-01	-.4310733-02
131	.2704307+00	-.3028370-01	.9200752+00	-.1685452-01	-.2738464-01	.1853244-02
132	.1720949+00	-.1141949+00	.4581939+00	-.3895124-01	-.1352988-01	.7145666-02
133	-.6705563-02	-.1447516+00	-.2191868+00	-.4282363-01	.6673773-02	.9092580-02
134	-.1823250+00	.1076757+00	-.7951051+00	-.2665569-01	.2377249-01	.6784563-02
135	-.2726251+00	-.2032525-01	-.1000000+01	.1992823-02	.2976372-01	.1302129-02
136	-.2353901+00	.7643131-01	-.7378310+00	.2972128-01	.2184039-01	-.4790227-02
137	-.8805509-01	.1373337+00	-.1310457+00	.4355944-01	.3704759-02	-.8643067-02
138	.1004459+00	.1338991+00	.5367263+00	.3703454-01	-.1616400-01	-.8454264-02
139	.2419312+00	.6774420-01	.9533174+00	.1319860-01	-.2847592-01	-.4312742-02
140	.2702161+00	-.3017545-01	.9240586+00	-.1679946-01	-.2747602-01	.1845372-02
141	.1720410+00	-.1404007+00	.4628010+00	-.3893019-01	-.1363576-01	.7141097-02
142	-.6689301-02	-.1445949+00	-.2145697+00	-.4284357-01	.6567681-02	.9095156-02
143	-.1823369+00	-.1075217+00	-.7911130+00	-.2671296-01	.2368123-01	.6791570-02
144	-.2726859+00	-.2015500-01	-.9971427+00	.1909611-02	.2969912-01	.1306858-02
145	-.2354115+00	.7662230-01	-.7364873+00	.2962590-01	.2180895-01	-.4792102-02
146	.1840850-04	.2758185-03	-.7516967-06	.3060855-04	.5595841-05	.3929771-05
147	.2517850-03	.6537188-05	-.1566099-03	.5598040-05	.3073248-04	.4012478-05
148	-.1800565-05	-.2722992-03	.67926295-04	.3079879-04	-.5487149-05	.3961020-05
149	-.2515611-03	.4130517-04	.2244752-03	-.5351257-05	-.3072286-04	.3809538-05
150	-.6607732-04	-.1965901-03	-.1175976-04	-.3053542-04	.5330087-05	.3687029-05

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151	-.2266773-03	.1000818-03	-.2273992-03	.5472867-05	.3041270-04	.3706054-05
152	.7047110-04	.2605902-03	.8252942-04	.3050368-04	-.5626556-05	.3775267-05
153	.2307748-03	-.3792057-04	.2979650-03	-.5616654-05	-.3068401-04	.3759662-05
154	-.1510486-03	-.5651845-03	.6625439-04	-.2453266-04	.5689849-05	.1862898-05
155	-.1515885-03	-.5633238-03	.5527319-04	-.2677773-04	.5980436-05	.2803154-05
156	-.1273618-03	-.4256220-03	.5622760-04	-.2664451-04	.5923074-05	.3648324-05
157	-.1000396-03	-.1837524-03	.7011608-04	-.2445324-04	.7465282-05	.4432436-05
158	-.1834292-04	.1650799-04	.3420472-04	-.3022300-04	.5466067-05	.2983593-05
159	.1773532-04	.2304233-03	.3270464-04	-.3072253-04	.5393164-05	.2922286-05
160	.1269394-03	.1833842-03	.1528753-04	-.2339975-04	.1987837-04	.2850851-05
161	.2058940-03	.1011700-03	.4112676-05	-.1070234-04	.2929288-04	.2915414-05
162	.2427358-03	-.1773910-04	.7071929-05	.5527586-05	.3131968-04	.2661191-05
163	.2194519-03	-.1572066-03	.1283027-04	.2115291-04	.2502453-04	.2365815-05
164	.8838913-04	-.1599594-03	.2549870-04	.2732948-04	.1020959-04	.5646905-06
165	-.4964841-05	-.1941053-03	.3837717-04	.2942925-04	-.4909259-05	.9527793-09
166	-.1081467-03	-.1730656-03	.5079477-04	.2363877-04	-.1952354-04	.8778540-07
167	-.1896854-03	-.9366619-04	.5898046-04	.1064514-04	-.2937268-04	.3690381-05
168	-.2127731-03	.1418215-04	.6003651-04	-.5344789-05	-.3067676-04	.3641921-05
169	-.1787603-03	.1192254-03	.5415016-04	-.1992570-04	-.2377461-04	.3660770-05
170	-.2669652-04	.1933229-03	.4287129-04	-.2918003-04	-.1050386-04	.3774731-05
171	-.3242658-03	-.5382552-04	-.1561077-03	-.3155456-05	.3409305-04	-.5857042-07
172	.1251994-05	-.7475423-03	-.6367691-05	-.3443948-04	.1163655-05	-.9719667-07
173	-.7413874-03	-.9306967-04	-.1561216-03	-.2881826-05	.3411931-04	-.1047543-06
174	-.1821917-03	.7243526-03	-.3413339-04	.3336115-04	.7127960-05	-.1094740-06
175	.7097086-03	.8268536-04	.1425222-03	.2398882-05	-.3245754-04	-.3039979-06
176	-.9256899-04	.3015177-03	-.3416031-04	.3147210-04	.6468877-05	-.3352248-06
177	.1641128-04	-.3179200-03	-.8937698-05	-.3247774-04	.1453829-05	-.4176459-06
178	.3119397-03	.5344649-04	.1433016-03	.2573574-05	-.3196992-04	-.2873016-06
179	.1934639-03	.4448347-04	.1107451-03	.2625714-05	-.3231816-04	-.1718547-06
180	.4548310-04	-.1941686-03	.6316463-05	-.3241546-04	-.2576647-05	-.1215576-06
181	-.1934136-03	-.4640711-04	-.1164306-03	-.2641291-05	.3237862-04	-.1525120-06
182	-.4553148-04	.1922277-03	-.1184107-04	.3248381-04	.2538224-05	-.2481785-06
183	-.1419184-03	.1799566-04	.1359493-03	.2559318-05	-.3222809-04	-.2964927-06
184	.1928399-04	.1405472-03	.8104977-05	-.3225665-04	-.2528085-05	-.2621224-06
185	.1419644-03	-.2060184-04	-.1415964-03	-.2556449-05	.3222046-04	-.3401725-06
186	-.1932988-04	-.1433402-03	-.1373212-04	.3222189-04	.2533008-05	-.2992892-06
187	.1623693-04	.3050159-04	.1262448-03	.2533023-05	-.3225749-04	-.3154142-06
188	.3175225-04	-.1747507-04	.7341273-05	-.3225275-04	-.2543571-05	-.3160319-06
189	-.1623989-04	-.3300198-04	-.1319003-03	-.2548221-05	.3226879-04	-.3122667-06
190	-.3175365-04	.1498195-04	-.1296524-04	.3227741-04	.2531161-05	-.3131907-06
191	.1552903-03	.1705594-04	-.2687730-05	.7930022-05	-.3301465-04	-.8561548-07
192	.3324408-03	.5609108-04	-.2683010-05	.3578787-05	-.3370912-04	-.2968703-06
193	.7001794-03	.8889016-04	-.2417779-05	.3228244-05	-.3501981-04	-.8495028-07
STOP_VPERT	6.852	3	25			

DBRPT PRINTS