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SSME STRUCTURAL DYNAMIC MODEL DEVELOPMENT

FINAL REPORT

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by

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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).

CONTENTS

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 tranform 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

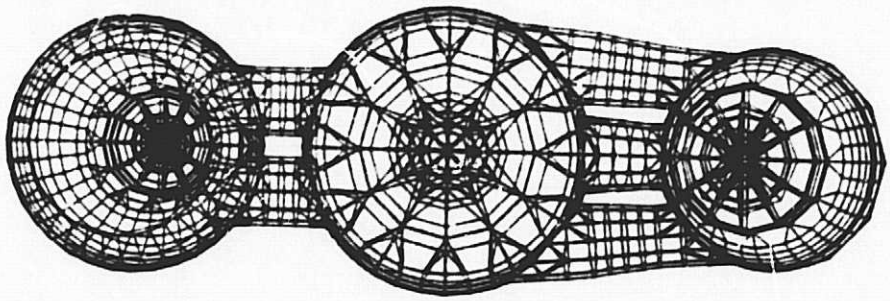


Fig. 1 - Hot Gas Manifold (Top View)

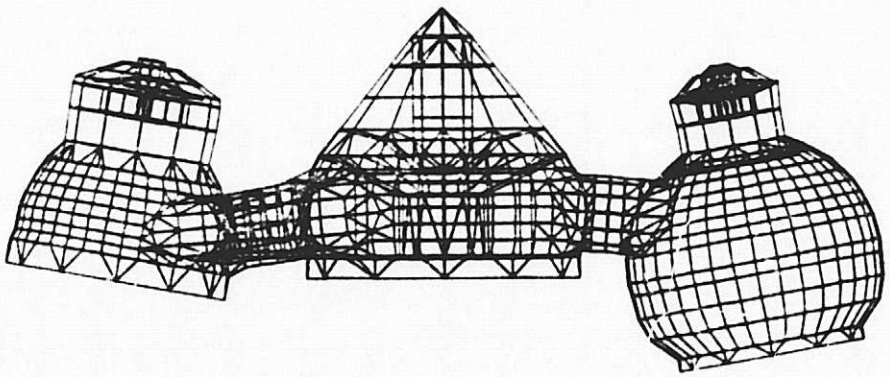


Fig. 2 - Hot Gas Manifold (Side View)

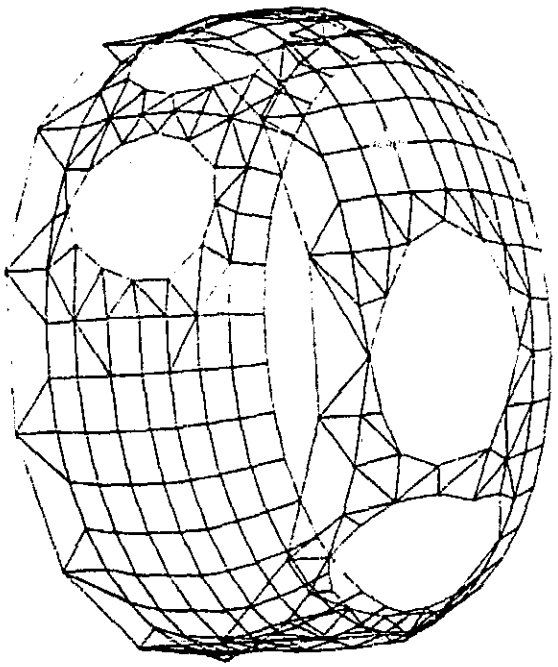


Fig. 3 HGM Injector Sphere

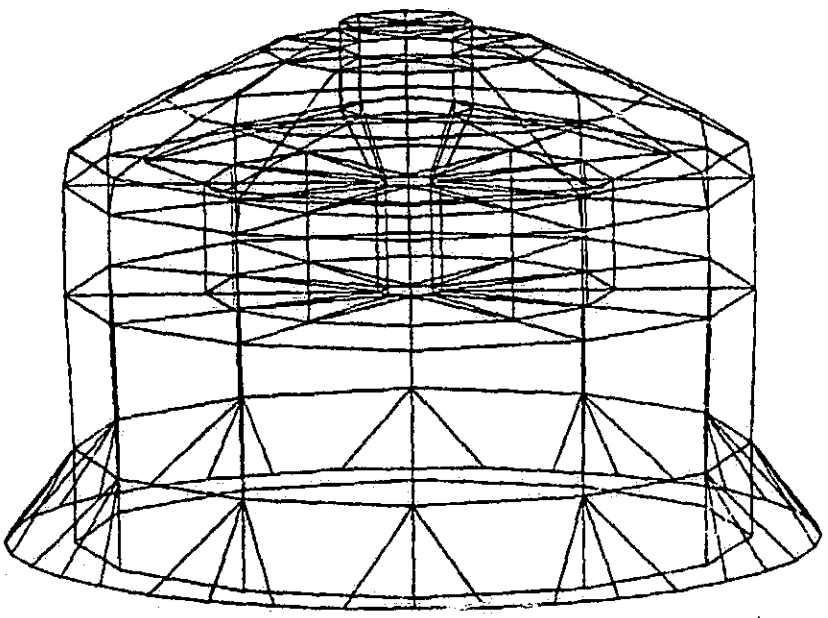


Fig. 4 - HGM Fuel Preburner

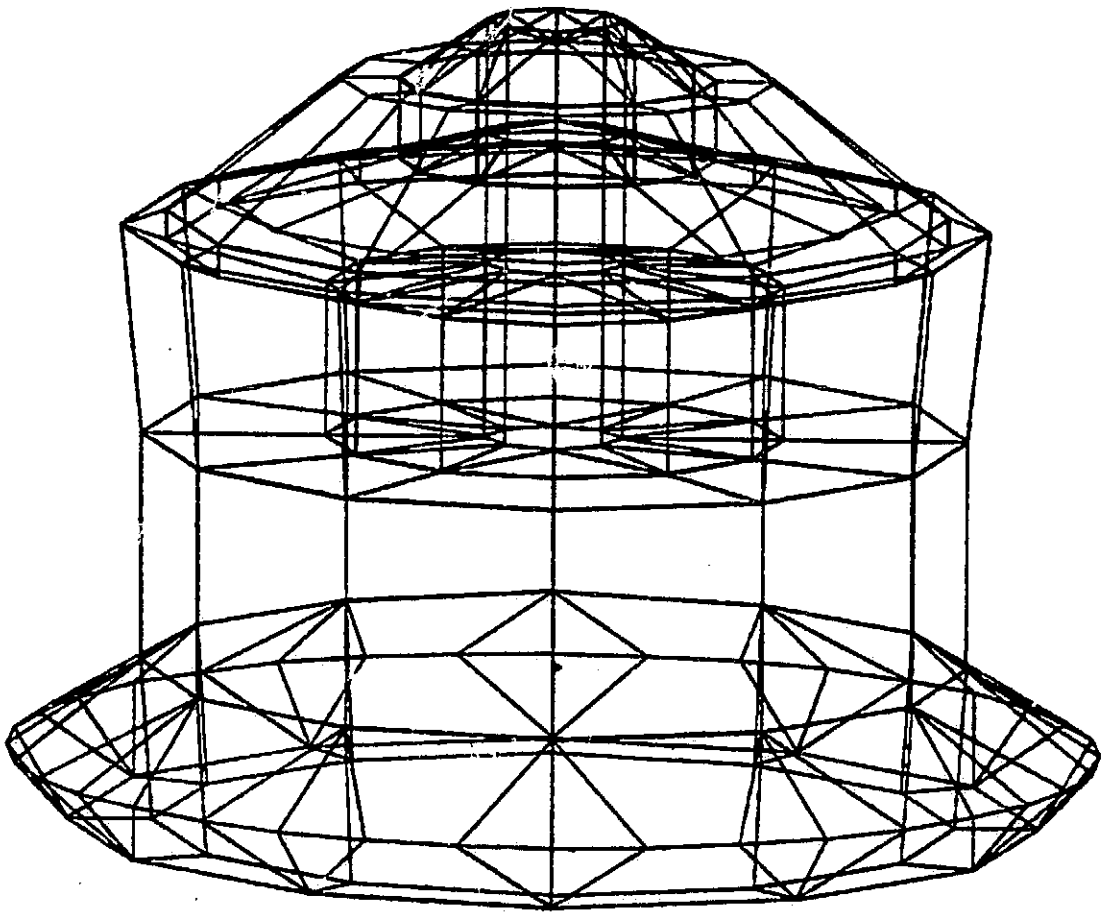


Fig. 5 - HGM Oxygen Preburner

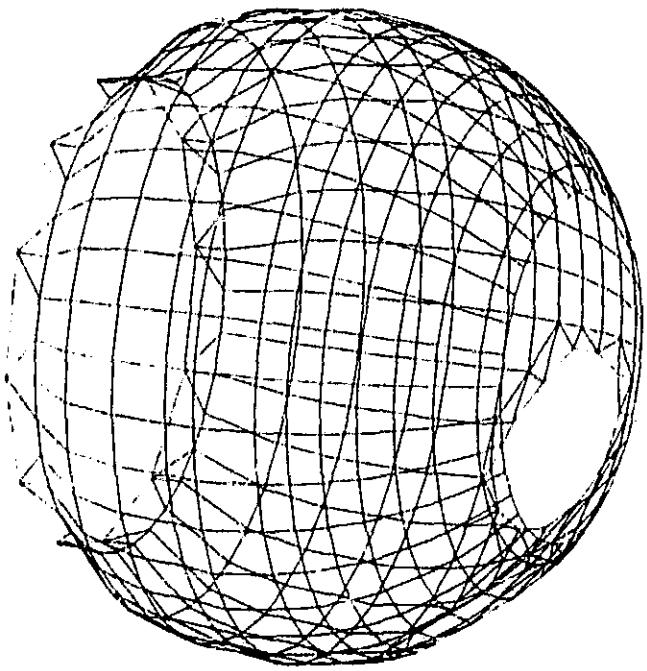


Fig. 6 - HGM Oxygen Sphere

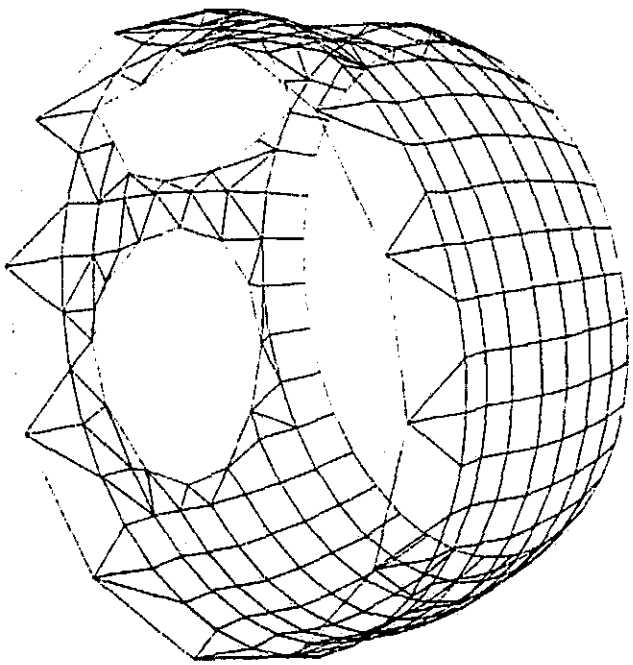


Fig. 7 - HGM Fuel Sphere

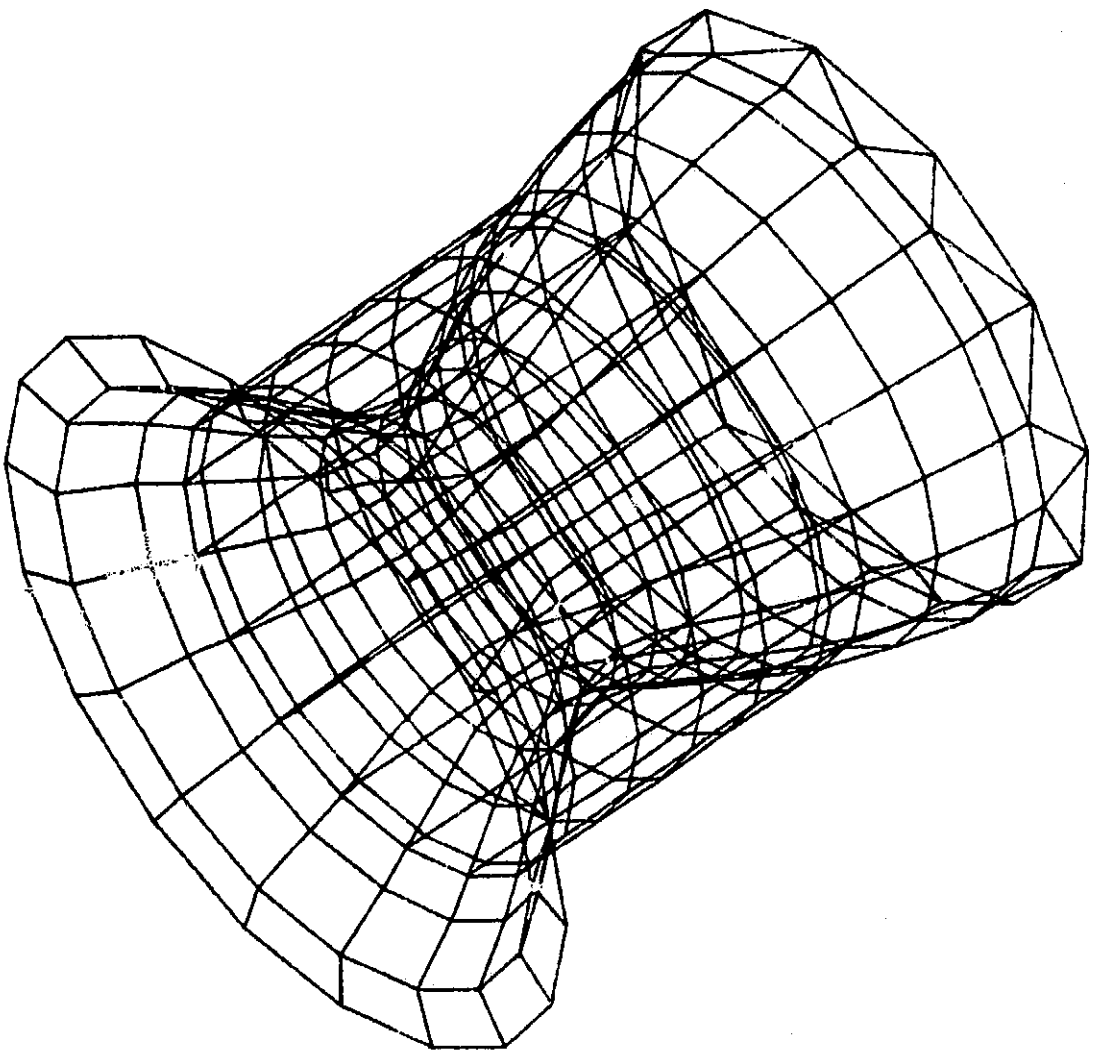


Fig. 8 - Main Combustion Chamber Model

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.

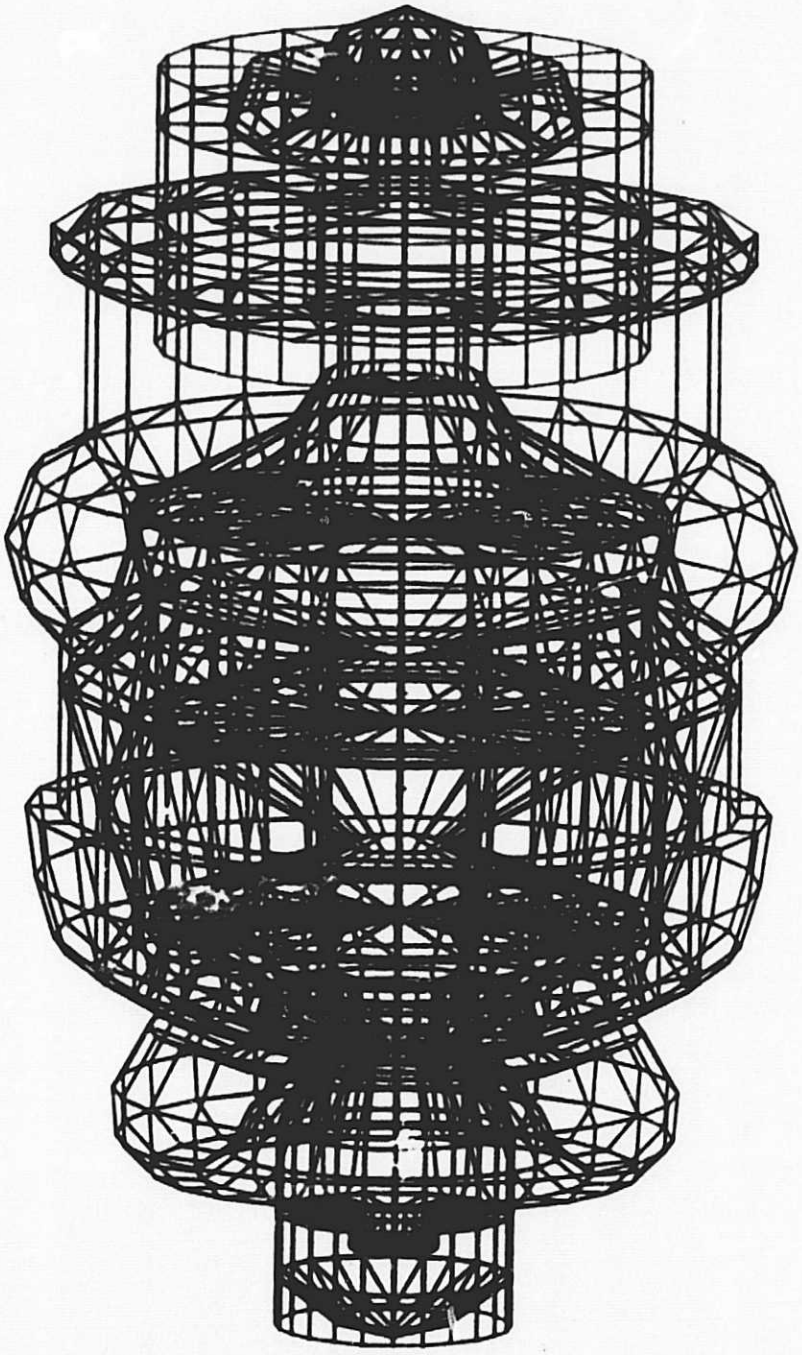


Fig. 9 - High Pressure Fuel Turbopump (Complete)

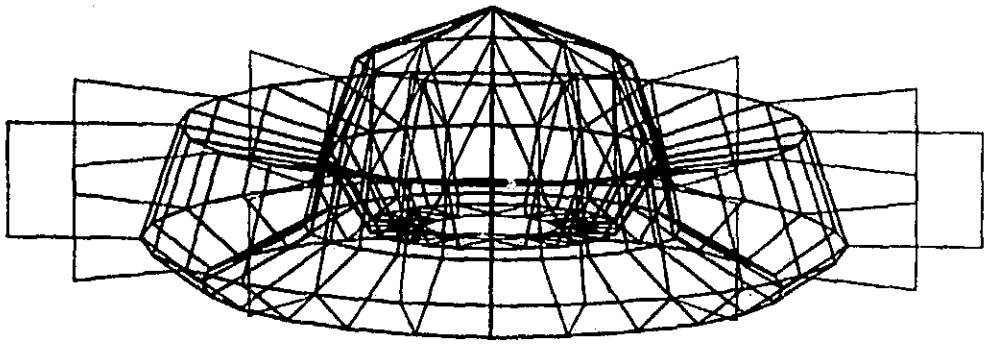


Fig. 10 - HPFTP Forward Bearing Housing

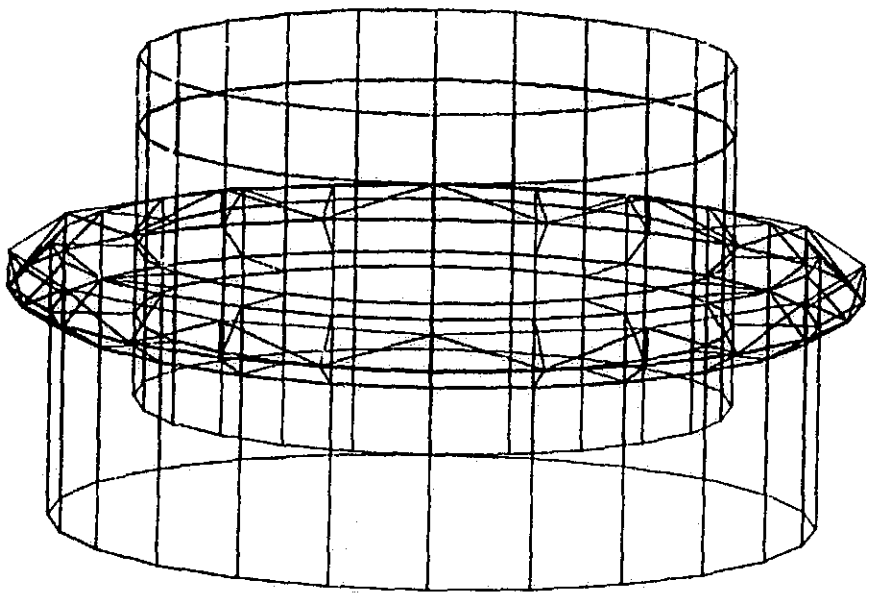


Fig. 11 - HPFTP Attach Flange

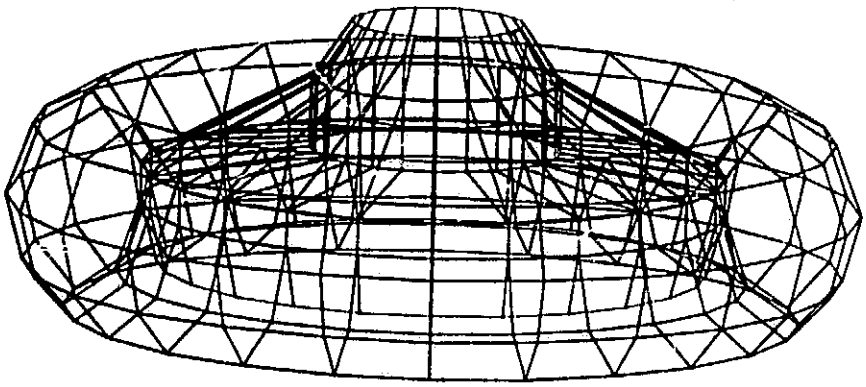


Fig. 12 - HPFTP Exit Volute

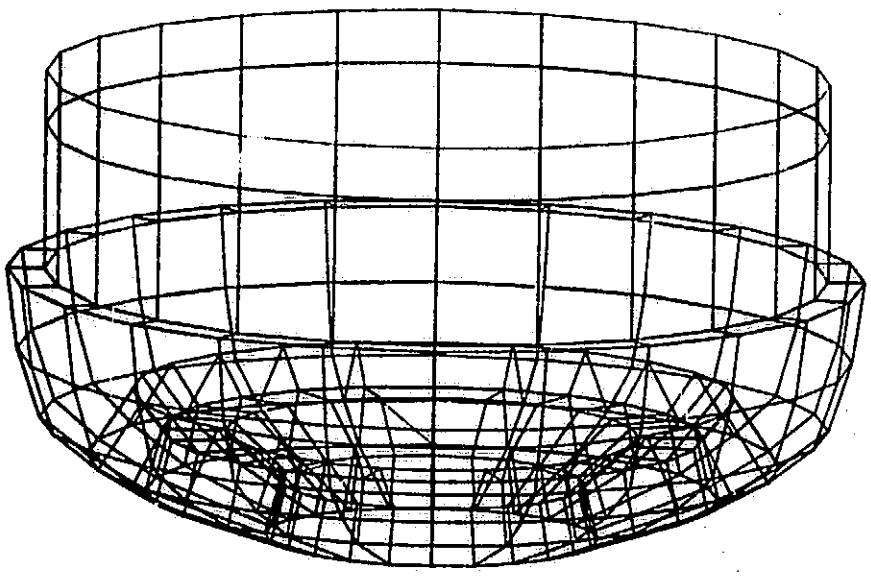


Fig. 13 - HPFTP Pump Housing

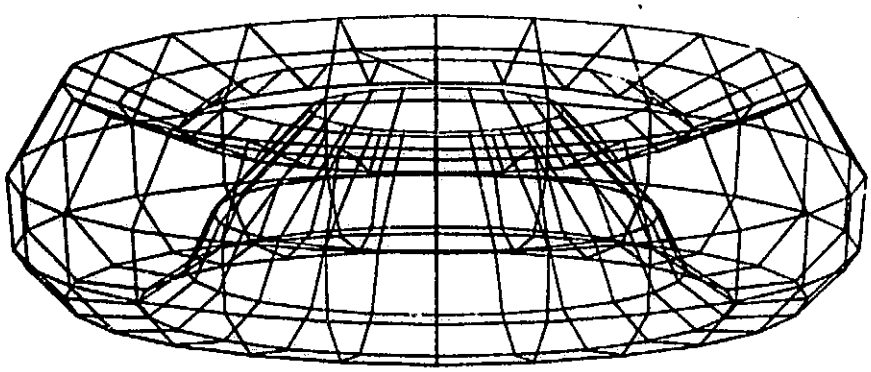


Fig. 14 - HPFTP Inlet Volute

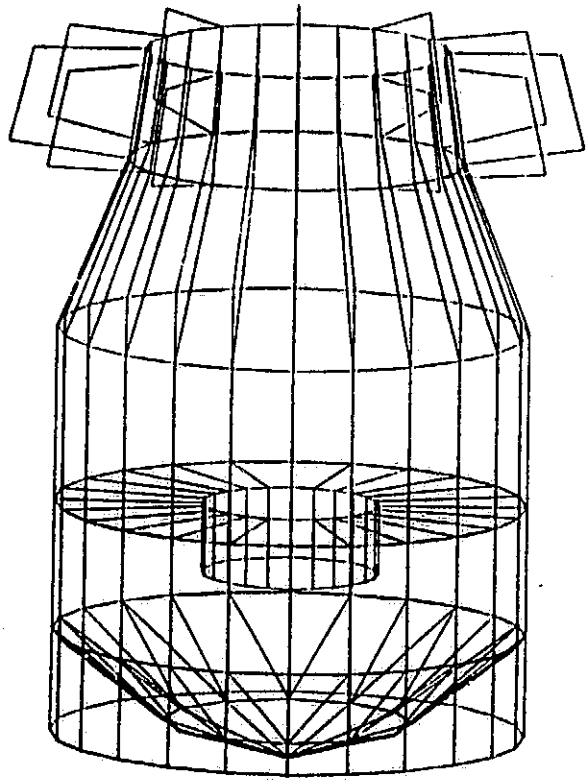


Fig. 15 - HPFTP Aft Bearing Housing

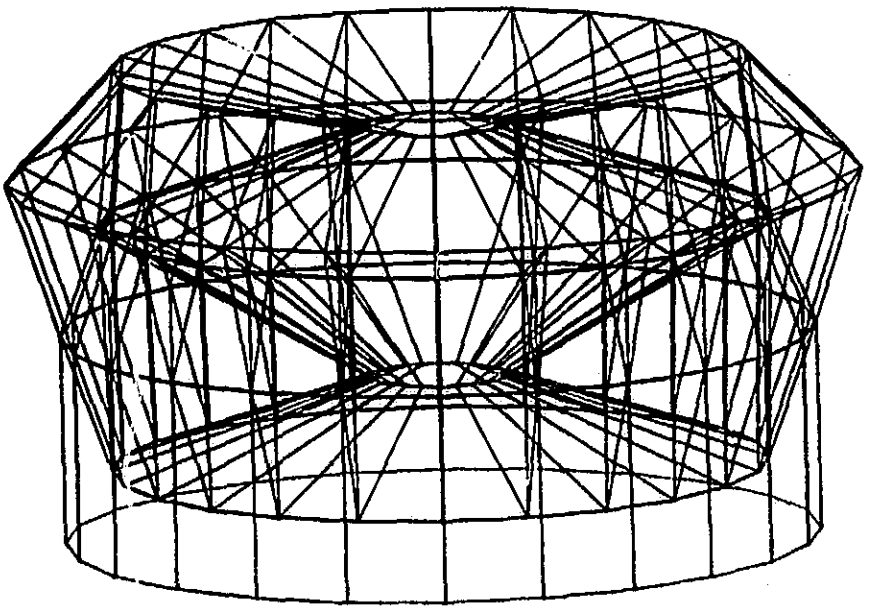


Fig. 16 - HPFTP Inner Stator

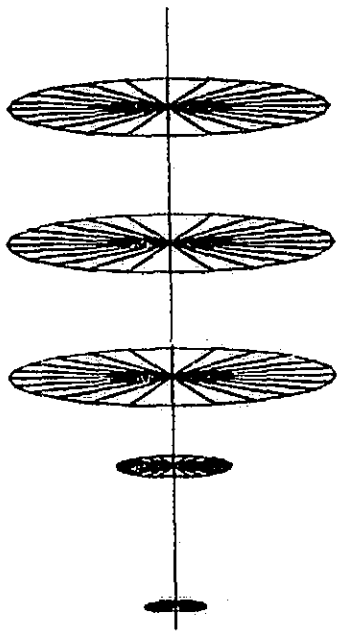


Fig. 17 - HPFTP Aft Shaft Assembly

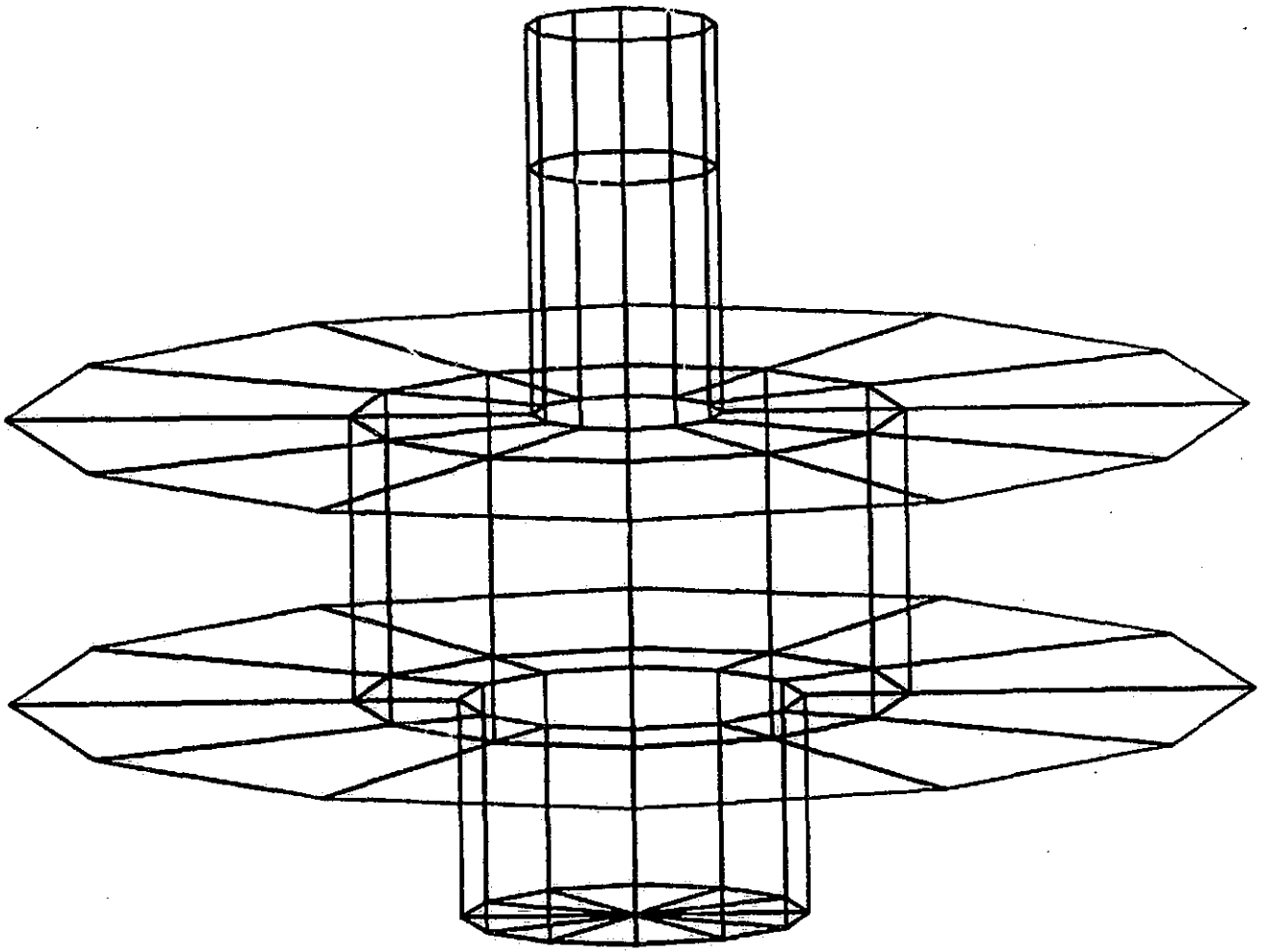


Fig. 18 - HPFTP Forward Shaft Assembly

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,

Table 3 HPFTP WEIGHT AND BALANCE CALCULATIONS

```
                * ANALYSIS OF MASS AND INERTIA PROPERTIES *

 MASS MATRIX NAME= DEM

 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	.720758+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	.197975+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-NODE:     .2355000+02
 TOTAL  3-NODE:     .5078374+03
 TOTAL  4-NODE:     .5485673+04
 STOP E          5.725        98        181
>
```

Table 4 HPFTP BOUNDARY JOINTS

```
*(BN)
350,361     $   *BOUNDRY* 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.

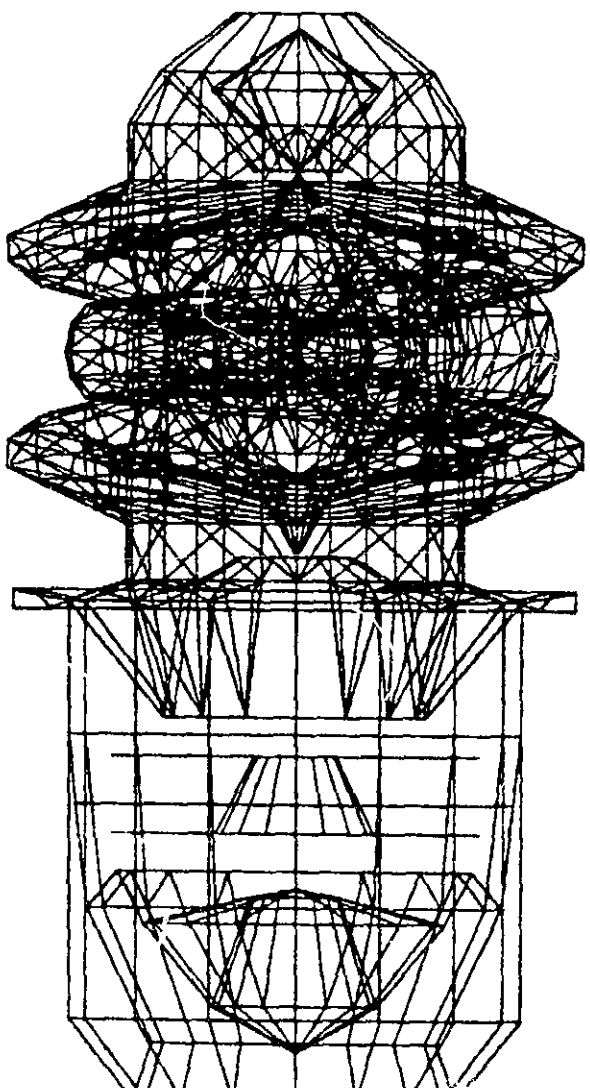


Fig. 19 - HPOTP (View 1)

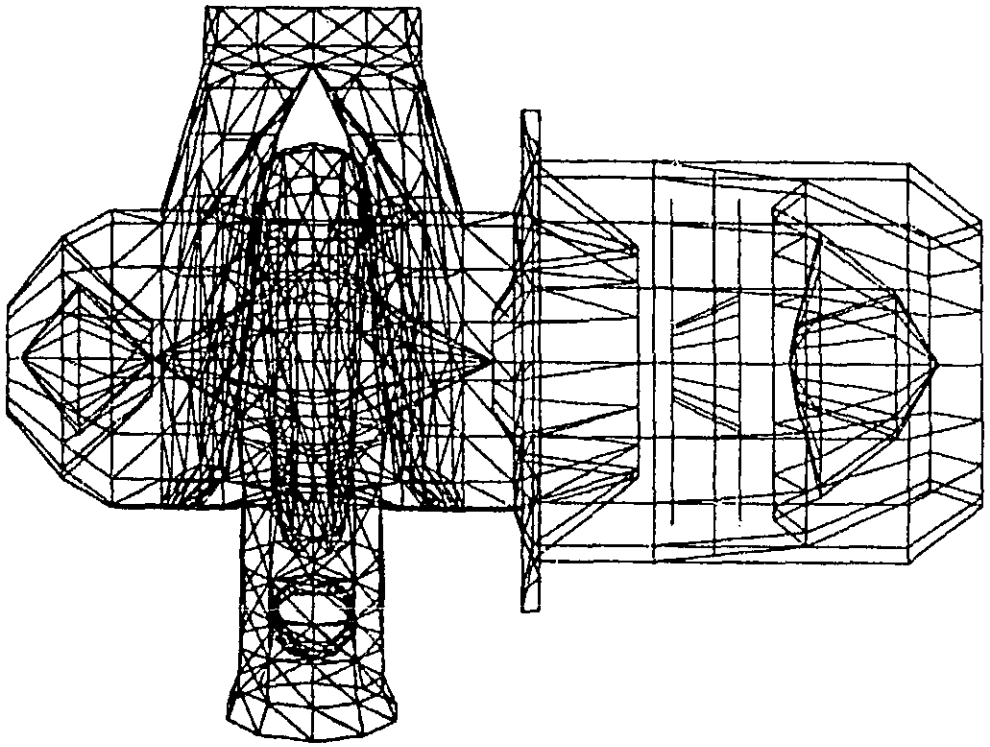


Fig. 20 - HPOTP (View 2)

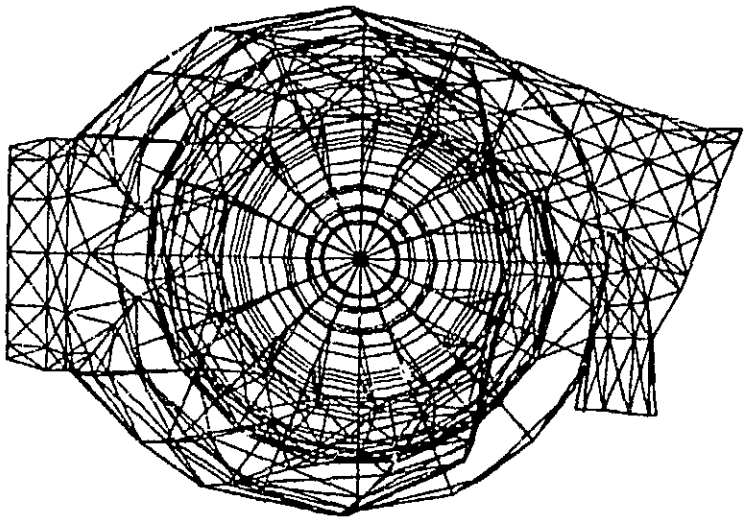


Fig. 21 - HPOTP (View 3)

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.

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:
              1             2             3             4             5             6
   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*
                    L, VOL OR      STRUCTURAL     NON-STRUCTURAL
 TYPE  GROUP        AREA SUM       WEIGHT         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     .354220+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
```

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        *                                   ENDHPOTP

@PRT,S HPFTP.ALL
```

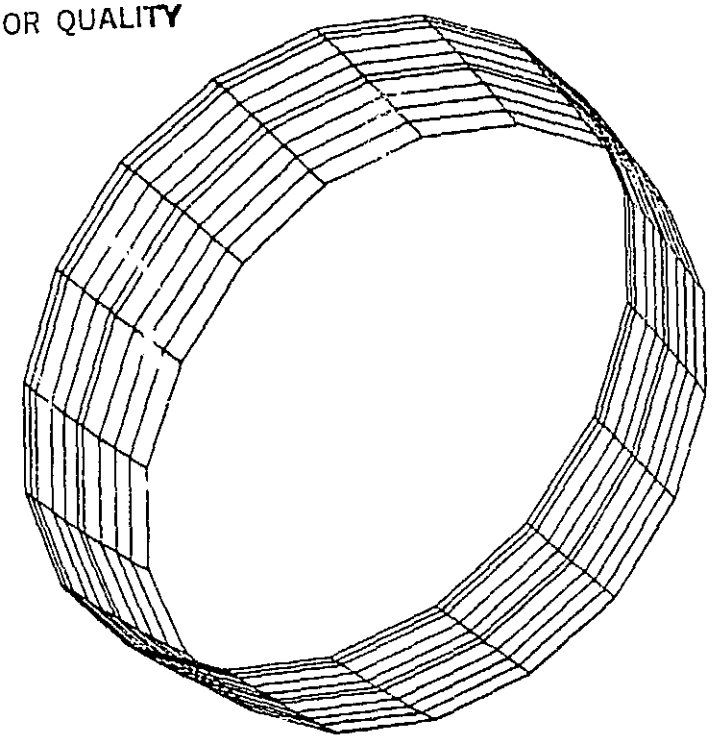


Fig. 22 - Typical Nozzle Macro-Element

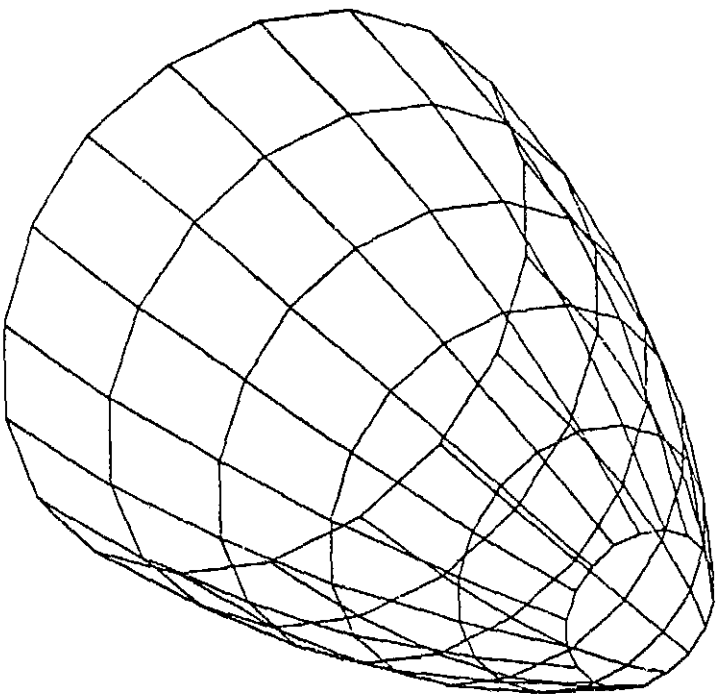


Fig. 23 - Assembly of Nozzle Macro-Elements

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-elemments. 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.

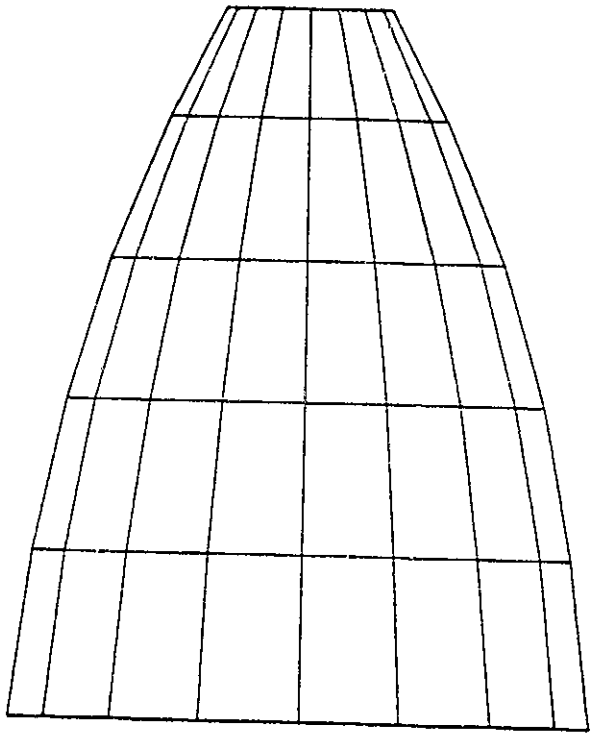


Fig. 24 - Nozzle Macro-Element Assembly (Side View)

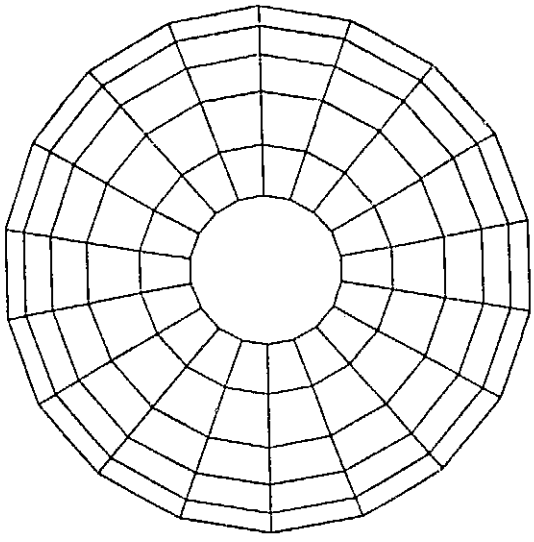


Fig. 25 - Nozzle Macro-Element Assembly (Plan View)

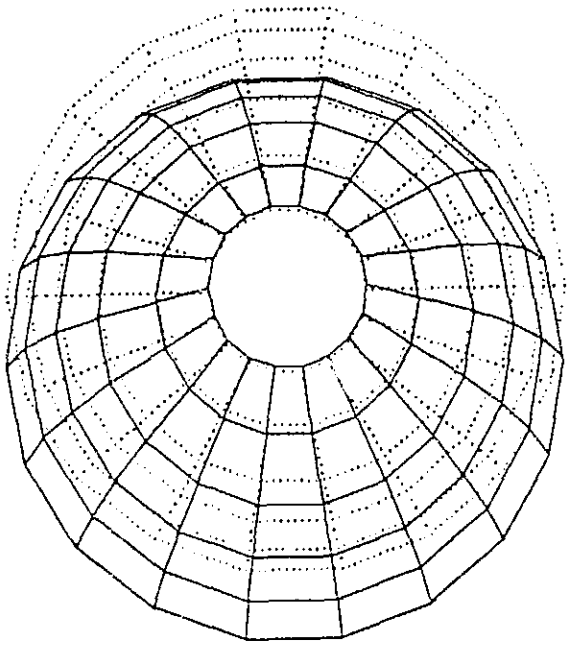


Fig. 26 - Nozzle (First Bending Mode)

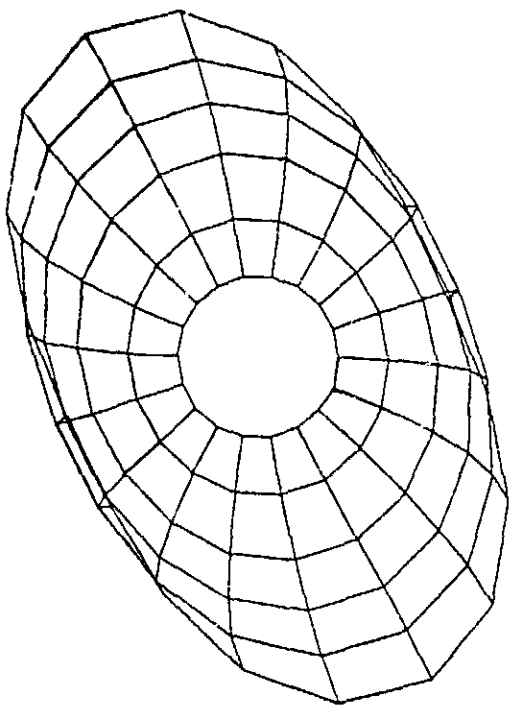


Fig. 27 - Nozzle (First Shell Mode)

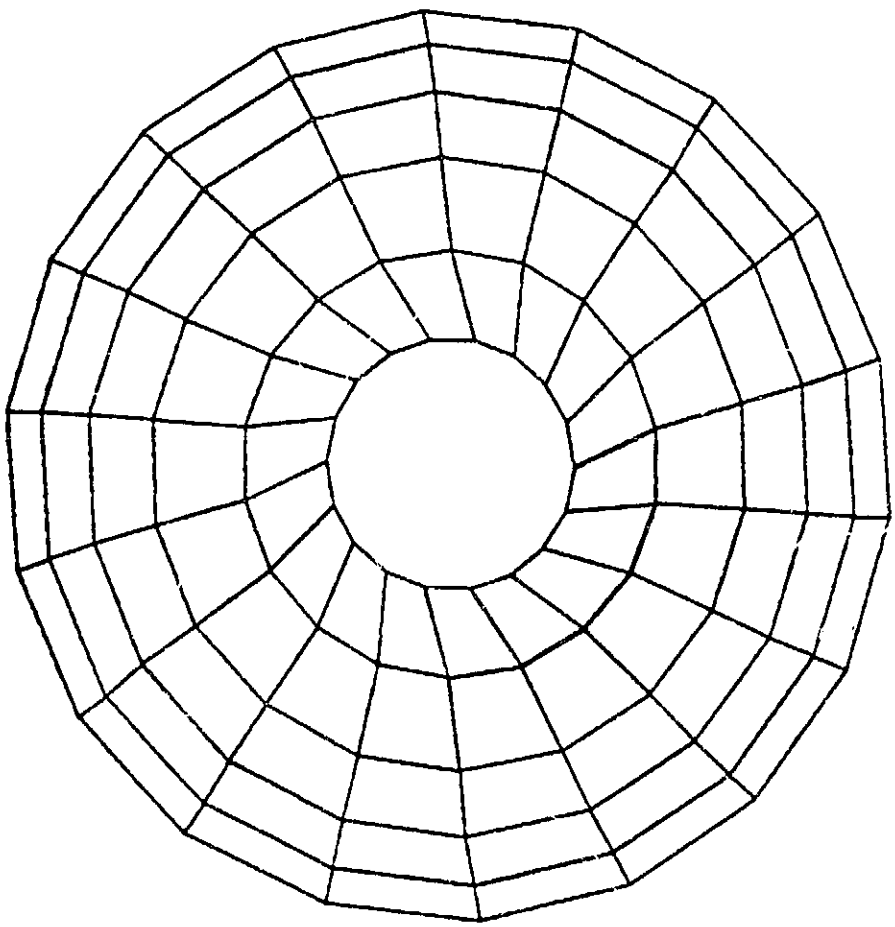


Fig. 28 - Nozzle (First Torsion Mode)

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	
138		11	
139		12	
140		13	
141		14	
142		15	
143		16	
144		17	
145		18	

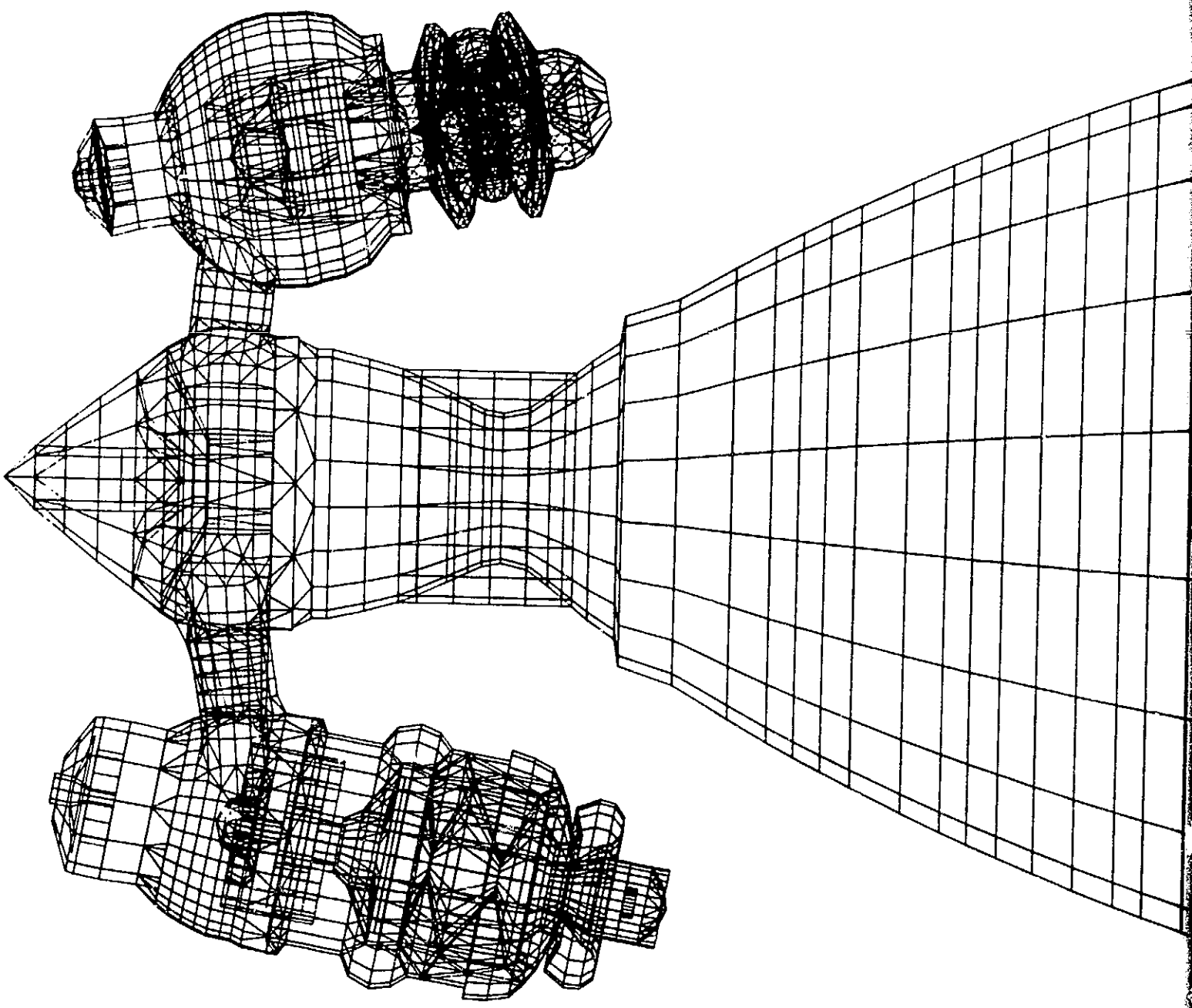
(Continued)

Table 9 (Continued)

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

Table 9 (Concluded)

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



FOLDOUT FRAME

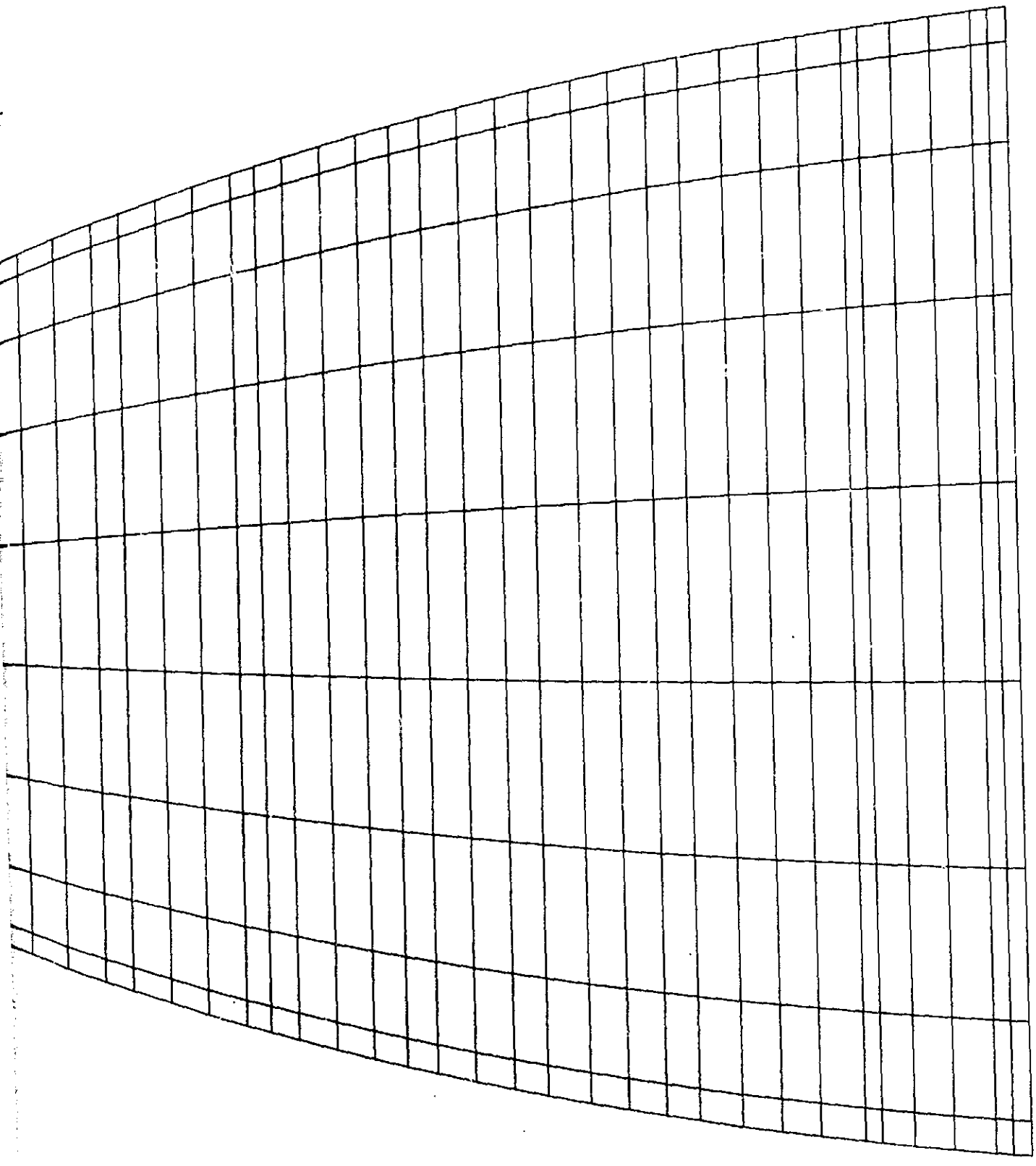
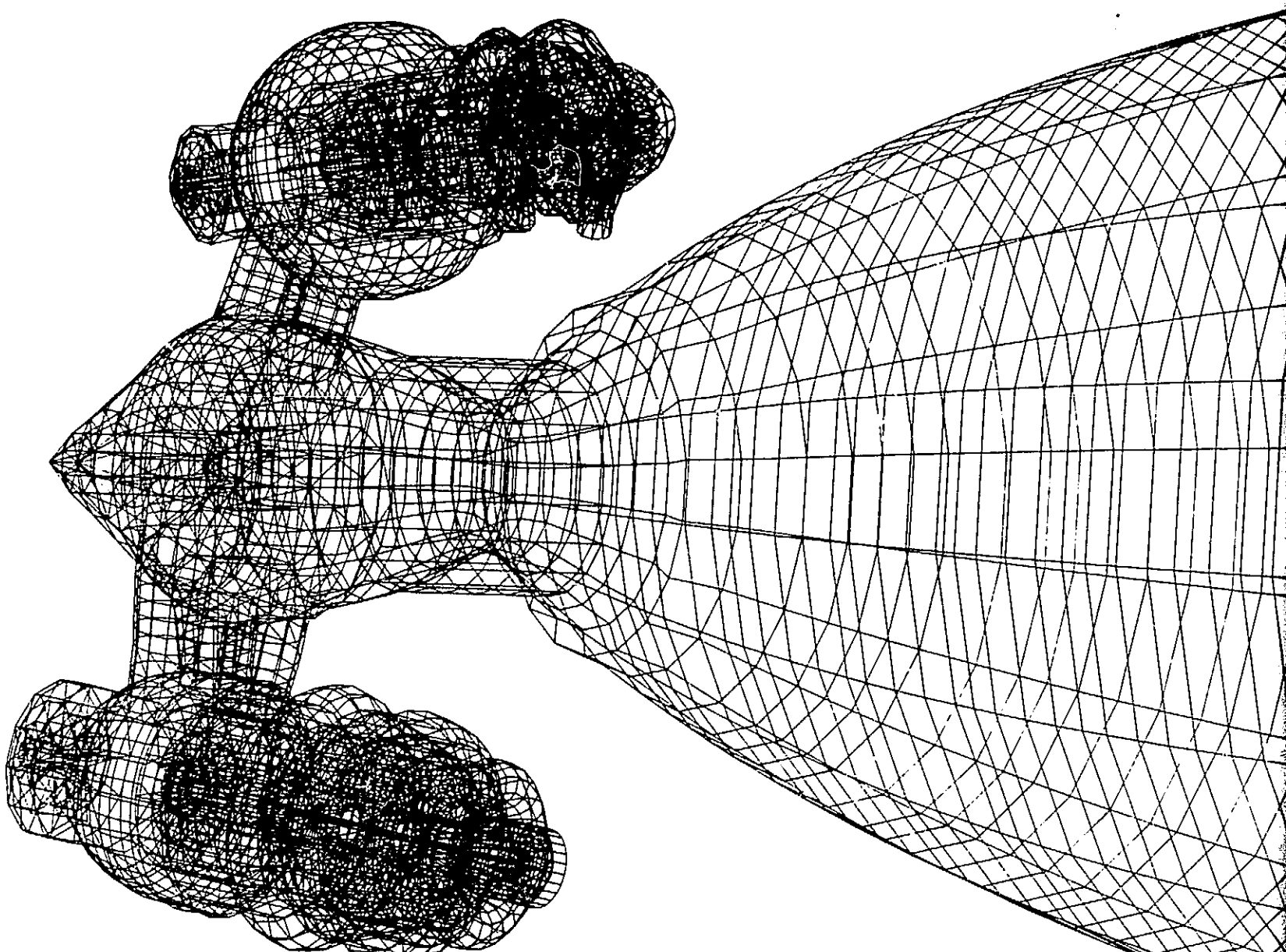


Fig. 3-9 SSME Structural Math Model (Side View)



FOLDOUT FRAME

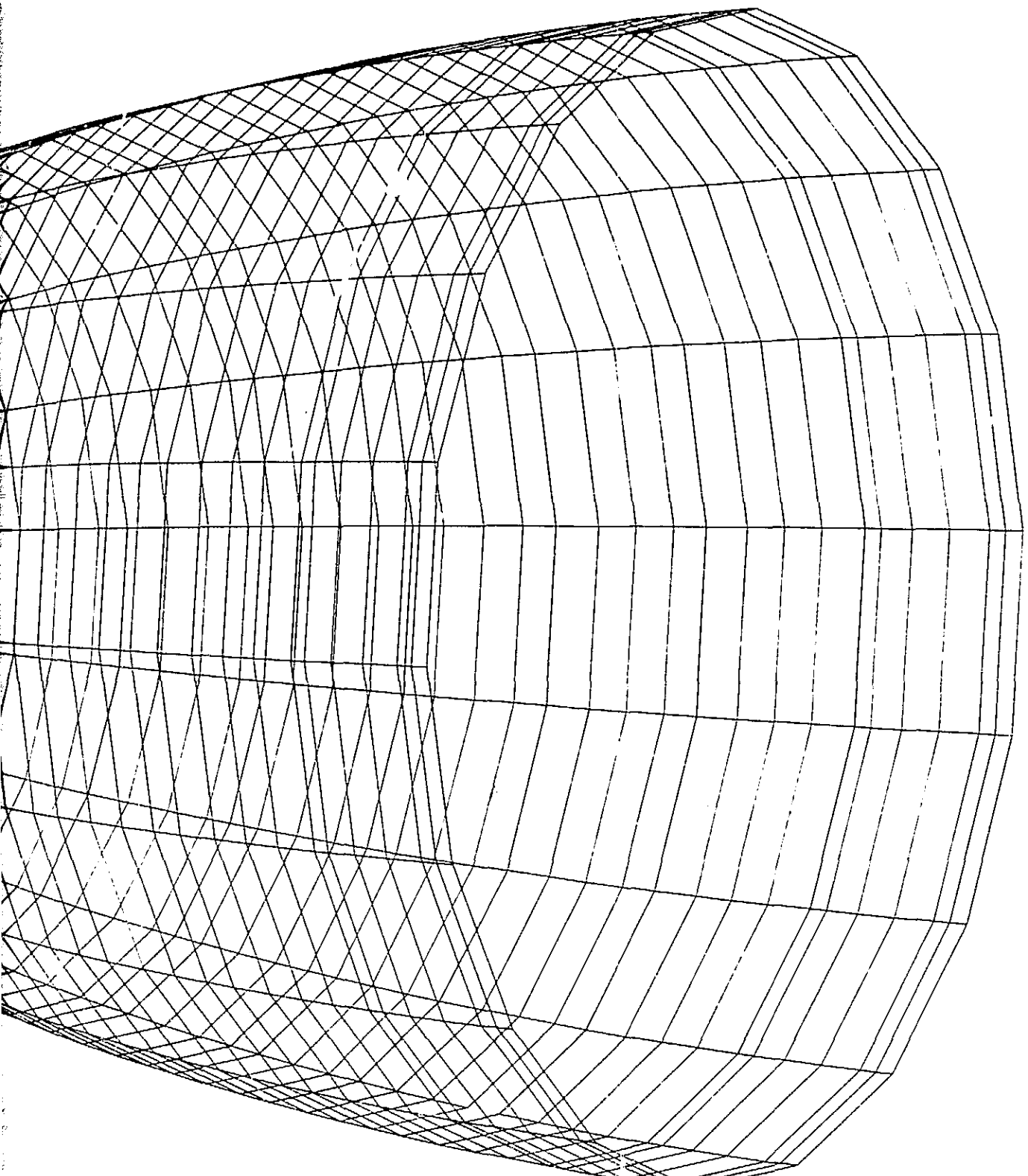


Fig. 30 SSME Structural Math Model (Perspective View)

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-EAL 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 difficiency 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 quadralateral 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

```
@PRI,S HGM.ALL
FURPUR 28R1M2 L36 574711 09/29/83 15:07:15

MFOLEYBIN202*HGM(1).ALL
      1      *(29 HGM DATA 1)                                    ENDHGM
      2      G=386.,SEQ=0,MICORE=150000
      3      *(TAB)
      4      START 1814
      5      ALTREF
      6      FORMAT=1
      7        2  1  -45.   2   90.   3   0.   -15.775   0.    0.
      8        3  1  -45.   2   80.   3   0.   -17.942  -18.03123  -18.03123
      9        4  1  -45.   2  100.   3   0.   -20.282   17.5009   17.5009
     10        5  1  -39.69  2  184.8567  3   0.   -15.775  -5.612   5.612
     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
     13        8  1  -45.   2   -5.0014   3   0.   -15.775   1.873833  6.965
     14        9  1  -45.   2   -5.0014   3   0.   -15.775   6.965   1.873833
     15      JLOC
     16      NREF=   2
     17              1   .108975+02   .000000      -.570000+01$
     18              2   .943751+01   .544875+01   -.570000+01$
     19              3   .544875+01   .943751+01   -.570000+01$
     20              4   .173197-06   .108975+02   -.570000+01$
     21              5  -.544875+01   .943751+01   -.570000+01$
     22              6  -.943751+01   .544875+01   -.570000+01$
     23              7  -.108975+02   .346393-06   -.570000+01$
     24              8   .108975+02   .000000      -.401700+01$
     25              9   .107319+02   .189233+01   -.401700+01$
     26             10   .102403+02   .372716+01   -.401700+01$
     27             11   .943751+01   .544875+01   -.401700+01$
     28             12   .825556+01   .711345+01   -.375000+01$
     29             13   .700478+01   .834797+01   -.401700+01$
     30             14   .544875+01   .943751+01   -.401700+01$
     31             15   .372716+01   .102403+02   -.401700+01$
     32             16   .189233+01   .107319+02   -.401700+01$
     33             17   .173197-06   .108975+02   -.401700+01$
     34             18  -.189233+01   .107319+02   -.401700+01$
     35             19  -.372716+01   .102403+02   -.401700+01$
     36             20  -.544675+01   .943751+01   -.401700+01$
     37             21  -.700478+01   .834797+01   -.401700+01$
     38             22  -.834797+01   .700478+01   -.401700+01$
     39             23  -.943751+01   .544875+01   -.401700+01$
     40             24  -.102403+02   .372716+01   -.401700+01$
     41             25  -.107319+02   .189233+01   -.401700+01$
     42             26  -.108975+02   .346393-06   -.401700+01$
     43             27   .109821+02   .154343+01   -.336000+01$
     44             28   .104063+02   .441722+01   -.252000+01$
     45             29   .955547+01   .562860+01   -.330000+01$
     46             30   .699993+01   .876866+01   -.310000+01$
     47             31   .564000+01   .976877+01   -.267800+01$
     48             32   .385799+01   .105997+02   -.267800+01$
     49             33   .195875+01   .111086+02   -.267800+01$
     50             34   .179276-06   .112800+02   -.267800+01$
     51             35  -.195875+01   .111086+02   -.267800+01$
     52             36  -.385799+01   .105997+02   -.267800+01$
     53             37  -.564000+01   .976877+01   -.267800+01$
     54             38  -.725064+01   .864098+01   -.267800+01$
     55             39  -.864098+01   .725064+01   -.267800+01$
     56             40  -.100855+02   .498455+01   -.277700+01$
```

57	41	-.109480+02	.359753+01	-.347000+01$
58	42	-.109946+02	.218696+01	-.286000+01$
59	43	-.112800+02	.358552-06	-.267800+01$
60	44	.109213+02	.257163+01	-.226000+01$
61	45	.106809+02	.399341+01	-.920000+00$
62	46	.557916+01	.986113+01	-.190000+01$
63	47	.389219+01	.106937+02	-.133900+01$
64	48	.197612+01	.112071+02	-.133900+01$
65	49	.180865-06	.113800+02	-.133900+01$
66	50	-.197612+01	.112071+02	-.133900+01$
67	51	-.389219+01	.106937+02	-.133900+01$
68	52	-.569000+01	.985537+01	-.133900+01$
69	53	-.731492+01	.871759+01	-.133900+01$
70	54	-.871759+01	.731492+01	-.133900+01$
71	55	-.973742+01	.585083+01	-.160700+01$
72	56	-.112770+02	.128486+01	-.174000+01$
73	57	-.113800+02	.361730-06	-.133900+01$
74	58	.110309+02	.295571+01	-.720000+00$
75	59	.109742+02	.450008+01	.100000+01$
76	60	.497005+01	.103040+02	-.400000+00$
77	61	.391955+01	.107689+02	.000000 $
78	62	.199001+01	.112859+02	.000000 $
79	63	.182137-06	.114600+02	.000000 $
80	64	-.199001+01	.112859+02	.000000 $
81	65	-.391955+01	.107689+02	.000000 $
82	66	-.573000+01	.992465+01	.000000 $
83	67	-.736635+01	.877887+01	.000000 $
84	68	-.877887+01	.736635+01	.000000 $
85	69	-.953965+01	.631416+01	-.297000+00$
86	70	-.113907+02	.946498+00	-.446300+00$
87	71	-.114600+02	.364273-06	.000000 $
88	72	.110673+02	.260601+01	.780000+00$
89	73	.558408+01	.986983+01	.101100+01$
90	74	.387851+01	.106561+02	.101100+01$
91	75	.196917+01	.111677+02	.101100+01$
92	76	-.180230-06	.113400+02	.101100+01$
93	77	-.196917+01	.111677+02	.101100+01$
94	78	-.387851+01	.106561+02	.101100+01$
95	79	-.567000+01	.982073+01	.101100+01$
96	80	-.728921+01	.868694+01	.101100+01$
97	81	-.868694+01	.728921+01	.101100+01$
98	82	-.943959+01	.624793+01	.106100+01$
99	83	-.112790+02	.128508+01	.910000+00$
100	84	-.113400+02	.360459-06	.101100+01$
101	85	.106694+02	.246321+01	.206000+01$
102	86	.103178+02	.375538+01	.202200+01$
103	87	.956408+01	.563368+01	.166000+01$
104	88	.809621+01	.716292+01	.234000+01$
105	89	.677228+01	.866812+01	.194000+01$
106	90	.549000+01	.950896+01	.202200+01$
107	91	.375538+01	.103178+02	.202200+01$
108	92	.190666+01	.108132+02	.202200+01$
109	93	.174508-06	.109800+02	.202200+01$
110	94	-.190666+01	.108132+02	.202200+01$
111	95	-.375538+01	.103178+02	.202200+01$
112	96	-.549000+01	.950896+01	.202200+01$
113	97	-.705781+01	.841117+01	.202200+01$

114	98	-.841117+01	.705781+01	.202200+01$
115	99	-.985275+01	.502023+01	.217300+01$
116	100	-.106165+02	.381170+01	.260000+01$
117	101	-.107812+02	.221306+01	.207250+01$
118	102	-.109800+02	.349016-06	.202200+01$
119	103	.105000+02	.000000	.303300+01$
120	104	.103405+02	.182331+01	.303300+01$
121	105	.986677+01	.359121+01	.303300+01$
122	106	.909327+01	.525000+01	.303300+01$
123	107	.804347+01	.674927+01	.303300+01$
124	108	.674927+01	.804347+01	.303300+01$
125	109	.525000+01	.909327+01	.303300+01$
126	110	.359121+01	.986677+01	.303300+01$
127	111	.182331+01	.103405+02	.303300+01$
128	112	.166879-06	.105000+02	.303300+01$
129	113	-.182331+01	.103405+02	.303300+01$
130	114	-.359121+01	.986677+01	.303300+01$
131	115	-.525000+01	.909327+01	.303300+01$
132	116	-.674927+01	.804347+01	.303300+01$
133	117	-.804347+01	.674927+01	.303300+01$
134	118	-.909327+01	.525000+01	.303300+01$
135	119	-.986677+01	.359121+01	.303300+01$
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$

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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$

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

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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	.426500+01	.102500+01$	
310	293	.656500+01	.550869+01	.102500+01$	
311	294	.550869+01	.656500+01	.102500+01$	
312	295	.426500+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$	

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$

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$

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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$

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	666	.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$

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	.254292-07	.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	.239889+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	.755000+01$	
882	862	.455342-07	.286500+01	.755000+01$	
883	863	-.143250+01	.248116+01	.755000+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$	

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	.127688+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	-.135250+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	-.189233+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	-.399381+01	-.920000+00$
1050	1028	.55791.+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	.182137-06	-.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$

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	-.405500+01	.616000+01$
1138	1116	.405500+01	-.702347+01	.616000+01$
1139	1117	.128894-06	-.811000+01	.616000+01$

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

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	.000000 $	
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$	

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	-.208806+01	.355000+01$
1293	1270	.748454+01	-.131973+01	.410000+01$
1294	1271	.714166+01	-.259935+01	.410000+01$
1295	1272	.658179+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$

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$

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

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	$
1465	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	$

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$

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+00	-.629842+01	.600000+01$
1549	1525	.411100+01	-.712046+01	.600000+01$
1550	1526	.281209+01	-.772615+00	.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	-.47727 +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$

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	.963747+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	.349652-07	-.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	.697237-07	-.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$
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1666		1642	.365545-07	-.230000+01	.116550+02$
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1668		1644	-.199186+01	-.115000+01	.116550+02$
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1670		1646	.209000+01	-.361999+01	.116550+02$
1671		1647	.664338-07	-.418000+01	.116550+02$
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1679		1655	.425218+01	-.245500+01	.777000+01$
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1694		1669	.144250+01	-.249848+01	.496250+01$
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1699		1674	.138500+01	-.239889+01	.627500+01$
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1707		1682	-.229930+01	-.132750+01	.758750+01$
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ORIGINAL PAGE IS
OF POOR QUALITY

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     1799   .135250+01  -.234260+01    .810000+01$
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2466	1110	1111	1112	191	$
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2468	193	18	19	4	$
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2470	1095	1113	1096	146	$
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2473	1006	1036	136	137	$
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2476	67	184	203	209	$
2477	1145	186	185	210	$
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2481	1008	1050	1022	1007	$
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ORIGINAL PAGE IS
OF POOR QUALITY

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2647	677	1533	1518	1503	$
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2660	525	474	506	473	$
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2670	622	625	623	624	$
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2676	605	606	589	570	$
2677	551	532	585	531	$
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C-2

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2836	NMAT=	1: NSECT=	8: NNSW=	0:	1018	1019	1033	1032	
2837	NMAT=	1: NSECT=	8: NNSW=	0:	1019	1020	1034	1033	
2838	NMAT=	1: NSECT=	8: NNSW=	0:	1020	1021	1035	1034	
2839	NMAT=	1: NSECT=	10: NNSW=	0:	1001	1002	1018	1017	
2840	NMAT=	1: NSECT=	10: NNSW=	0:	1002	1003	1019	1018	
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2842	NMAT=	1: NSECT=	10: NNSW=	0:	1004	1005	1021	1020	
2843	NMAT=	1: NSECT=	10: NNSW=	0:	1005	1006	1022	1021	
2844	NMAT=	1: NSECT=	7: NNSW=	0:	1035	1036	1049	1048	
2845	NMAT=	1: NSECT=	7: NNSW=	0:	1048	1049	1061	1060	
2846	NMAT=	1: NSECT=	3: NNSW=	0:	103	1081	1098	122	
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2848	NMAT=	1: NSECT=	3: NNSW=	0:	1082	1083	1100	1099	
2849	NMAT=	1: NSECT=	3: NNSW=	0:	1083	1084	1101	1100	

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2851	NMAT=	1: NSECT=	3: NNSW=	0:	1085	1086	1103	1102
2852	NMAT=	1: NSECT=	3: NNSW=	0:	1086	1087	1104	1103
2853	NMAT=	1: NSECT=	3: NNSW=	0:	1087	1088	1105	1104
2854	NMAT=	1: NSECT=	3: NNSW=	0:	1088	1089	1106	1105
2855	NMAT=	1: NSECT=	3: NNSW=	0:	1089	1090	1107	1106
2856	NMAT=	1: NSECT=	3: NNSW=	0:	1090	1091	1108	1107
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2858	NMAT=	1: NSECT=	3: NNSW=	0:	1092	1093	1110	1109
2859	NMAT=	1: NSECT=	3: NNSW=	0:	1093	1094	1111	1110
2860	NMAT=	1: NSECT=	3: NNSW=	0:	1094	1095	1112	1111
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2870	NMAT=	1: NSECT=	11: NNSW=	0:	236	237	256	255
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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
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2876	NMAT=	1: NSECT=	4: NNSW=	0:	237	238	257	256
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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
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2893	NMAT=	1: NSECT=	12: NNSW=	0:	276	277	293	292
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2899	NMAT=	1: NSECT=	12: NNSW=	0:	282	283	299	298
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2903	NMAT=	1: NSECT=	12: NNSW=	0:	295	296	311	310
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2905	NMAT=	1: NSECT=	12: NNSW=	0:	297	298	313	312
2906	NMAT=	1: NSECT=	12: NNSW=	0:	298	299	314	313

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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
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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
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2940	NMAT= 1: NSECT=	2: NNSW=	0:	270	271	287	286
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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
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2953	NMAT= 1: NSECT=	11: NNSW=	0:	1171	1172	1180	1179
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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

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
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2968	NMAT= 1:	NSECT=	4:	NNSW=	0:	1180	1181	1198	1197
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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
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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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3022	NMAT=	1: NSECT=	8: NNSW=	0:	1281	1282	1299	1298	
3023	NMAT=	1: NSECT=	8: NNSW=	0:	1282	1283	1300	1299	
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3025	NMAT=	1: NSECT=	8: NNSW=	0:	1284	1285	1302	1301	
3026	NMAT=	1: NSECT=	8: NNSW=	0:	1285	1286	1303	1302	
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3063	NMAT=	1: NSECT=	10: NNSW=	0:	493	494	513	512	
3064	NMAT=	1: NSECT=	15: NNSW=	0:	495	496	515	514	
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3246	NMAT= 1:	NSECT=	10:	NNSW=	0:	1376	1377	1394	1393
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3302	NMAT= 1: NSECT=	10: NNSW=	0:	1429	1430	1447	1446
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3535	NMAT= 1: NSECT=	21: NNSW=	0:	883	871	872	884	
3536	NMAT= 1: NSECT=	21: NNSW=	0:	895	883	884	896	
3537	NMAT= 1: NSECT=	21: NNSW=	0:	907	895	896	908	
3538	NMAT= 1: NSECT=	21: NNSW=	0:	919	907	908	920	
3539	NMAT= 1: NSECT=	21: NNSW=	0:	931	919	920	932	
3540	NMAT= 1: NSECT=	21: NNSW=	0:	936	924	925	937	
3541	NMAT= 1: NSECT=	21: NNSW=	0:	924	912	913	925	
3542	NMAT= 1: NSECT=	21: NNSW=	0:	912	900	901	913	
3543	NMAT= 1: NSECT=	21: NNSW=	0:	900	888	889	901	
3544	NMAT= 1: NSECT=	21: NNSW=	0:	888	876	877	889	
3545	NMAT= 1: NSECT=	21: NNSW=	0:	876	869	870	877	
3546	NMAT= 1: NSECT=	21: NNSW=	0:	871	883	894	882	
3547	NMAT= 1: NSECT=	21: NNSW=	0:	883	895	906	894	
3548	NMAT= 1: NSECT=	21: NNSW=	0:	895	907	918	906	
3549	NMAT= 1: NSECT=	21: NNSW=	0:	907	919	930	918	
3550	NMAT= 1: NSECT=	21: NNSW=	0:	914	926	925	913	
3551	NMAT= 1: NSECT=	21: NNSW=	0:	902	914	913	901	
3552	NMAT= 1: NSECT=	21: NNSW=	0:	890	902	901	889	
3553	NMAT= 1: NSECT=	21: NNSW=	0:	878	890	889	877	
3554	NMAT= 1: NSECT=	20: NNSW=	0:	872	865	866	877	
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3557	NMAT= 1: NSECT=	20: NNSW=	0:	908	896	897	909	
3558	NMAT= 1: NSECT=	20: NNSW=	0:	920	908	909	921	
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3560	NMAT= 1: NSECT=	20: NNSW=	0:	866	861	862	867	
3561	NMAT= 1: NSECT=	20: NNSW=	0:	873	866	867	874	
3562	NMAT= 1: NSECT=	20: NNSW=	0:	885	873	874	886	
3563	NMAT= 1: NSECT=	20: NNSW=	0:	897	885	886	898	
3564	NMAT= 1: NSECT=	20: NNSW=	0:	909	897	898	910	
3565	NMAT= 1: NSECT=	20: NNSW=	0:	921	909	910	922	
3566	NMAT= 1: NSECT=	20: NNSW=	0:	933	921	922	934	
3567	NMAT= 1: NSECT=	20: NNSW=	0:	938	933	934	939	
3568	NMAT= 1: NSECT=	20: NNSW=	0:	867	862	863	868	
3569	NMAT= 1: NSECT=	20: NNSW=	0:	874	867	868	875	
3570	NMAT= 1: NSECT=	20: NNSW=	0:	886	874	875	887	
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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	
3582	NMAT= 1: NSECT=	20: NNSW=	0:	882	894	893	881	
3583	NMAT= 1: NSECT=	20: NNSW=	0:	894	906	905	893	
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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	
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3589	NMAT= 1: NSECT=	20: NNSW=	0:	917	929	928	916	
3590	NMAT= 1: NSECT=	20: NNSW=	0:	880	892	891	879	

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3594	NMAT=	1: NSECT=	20: NNSW=	0:	879	891	890	878
3595	NMAT=	1: NSECT=	20: NNSW=	0:	891	903	902	890
3596	NMAT=	1: NSECT=	20: NNSW=	0:	903	915	914	902
3597	NMAT=	1: NSECT=	20: NNSW=	0:	915	927	926	914
3598	NMAT=	1: NSECT=	23: NNSW=	0:	1769	1774	1773	1768
3599	NMAT=	1: NSECT=	23: NNSW=	0:	1774	1786	1785	1773
3600	NMAT=	1: NSECT=	23: NNSW=	0:	1786	1798	1797	1785
3601	NMAT=	1: NSECT=	23: NNSW=	0:	1798	1810	1809	1797
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3604	NMAT=	1: NSECT=	23: NNSW=	0:	1797	1809	1814	1808
3605	NMAT=	1: NSECT=	22: NNSW=	0:	1779	1791	1790	1778
3606	NMAT=	1: NSECT=	22: NNSW=	0:	1791	1803	1802	1790
3607	NMAT=	1: NSECT=	22: NNSW=	0:	1780	1792	1791	1779
3608	NMAT=	1: NSECT=	22: NNSW=	0:	1792	1804	1803	1791
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3627	NMAT=	1: NSECT=	13: NNSW=	0:	1794	1806	1805	1793
3628	NMAT=	1: NSECT=	13: NNSW=	0:	1782	1794	1793	1781
3629	NMAT=	1: NSECT=	13: NNSW=	0:	1795	1807	1806	1794
3630	NMAT=	1: NSECT=	13: NNSW=	0:	1783	1795	1794	1782
3631	NMAT=	1: NSECT=	23: NNSW=	0:	942	947	946	941
3632	NMAT=	1: NSECT=	23: NNSW=	0:	947	959	958	946
3633	NMAT=	1: NSECT=	23: NNSW=	0:	959	971	970	958
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3635	NMAT=	1: NSECT=	23: NNSW=	0:	946	958	969	957
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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3639	NMAT=	1: NSECT=	22: NNSW=	0:	964	976	975	963
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3642	NMAT=	1: NSECT=	9: NNSW=	0:	943	948	947	942
3643	NMAT=	1: NSECT=	9: NNSW=	0:	948	960	959	947
3644	NMAT=	1: NSECT=	9: NNSW=	0:	960	972	971	959
3645	NMAT=	1: NSECT=	9: NNSW=	0:	972	984	983	971
3646	NMAT=	1: NSECT=	9: NNSW=	0:	957	969	968	956
3647	NMAT=	1: NSECT=	9: NNSW=	0:	969	981	980	968

3648	NMAT= 1: NSECT=	13: NNSW=	0:	963	975	974	962
3649	NMAT= 1: NSECT=	13: NNSW=	0:	951	963	962	950
3650	NMAT= 1: NSECT=	13: NNSW=	0:	974	986	985	973
3651	NMAT= 1: NSECT=	13: NNSW=	0:	962	974	973	961
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
3657	NMAT= 1: NSECT=	13: NNSW=	0:	944	949	948	943
3658	NMAT= 1: NSECT=	13: NNSW=	0:	966	978	977	965
3659	NMAT= 1: NSECT=	13: NNSW=	0:	954	966	965	953
3660	NMAT= 1: NSECT=	13: NNSW=	0:	967	979	978	966
3661	NMAT= 1: NSECT=	13: NNSW=	0:	955	967	966	954
3662	NMAT= 1: NSECT=	13: NNSW=	0:	968	980	979	967
3663	NMAT= 1: NSECT=	13: NNSW=	0:	956	968	967	955
3664	NMAT= 1: NSECT=	8: NNSW=	0:	375	376	383	382
3665	NMAT= 1: NSECT=	8: NNSW=	0:	376	377	384	383
3666	NMAT= 1: NSECT=	8: NNSW=	0:	377	378	385	384
3667	NMAT= 1: NSECT=	8: NNSW=	0:	378	379	386	385
3668	NMAT= 1: NSECT=	8: NNSW=	0:	379	380	387	386
3669	NMAT= 1: NSECT=	8: NNSW=	0:	380	381	388	387
3670	NMAT= 1: NSECT=	4: NNSW=	0:	382	383	390	389
3671	NMAT= 1: NSECT=	4: NNSW=	0:	383	384	391	390
3672	NMAT= 1: NSECT=	4: NNSW=	0:	384	385	392	391
3673	NMAT= 1: NSECT=	4: NNSW=	0:	385	386	393	392
3674	NMAT= 1: NSECT=	4: NNSW=	0:	386	387	394	393
3675	NMAT= 1: NSECT=	4: NNSW=	0:	387	388	395	394
3676	NMAT= 1: NSECT=	4: NNSW=	0:	389	390	397	396
3677	NMAT= 1: NSECT=	4: NNSW=	0:	390	391	398	397
3678	NMAT= 1: NSECT=	4: NNSW=	0:	391	392	399	398
3679	NMAT= 1: NSECT=	4: NNSW=	0:	392	393	400	399
3680	NMAT= 1: NSECT=	4: NNSW=	0:	393	394	401	400
3681	NMAT= 1: NSECT=	4: NNSW=	0:	394	395	402	401
3682	NMAT= 1: NSECT=	4: NNSW=	0:	396	397	404	403
3683	NMAT= 1: NSECT=	4: NNSW=	0:	397	398	405	404
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3685	NMAT= 1: NSECT=	4: NNSW=	0:	399	400	407	406
3686	NMAT= 1: NSECT=	4: NNSW=	0:	400	401	408	407
3687	NMAT= 1: NSECT=	4: NNSW=	0:	401	402	409	408
3688	NMAT= 1: NSECT=	15: NNSW=	0:	403	404	411	410
3689	NMAT= 1: NSECT=	15: NNSW=	0:	404	405	412	411
3690	NMAT= 1: NSECT=	15: NNSW=	0:	405	406	413	412
3691	NMAT= 1: NSECT=	15: NNSW=	0:	406	407	414	413
3692	NMAT= 1: NSECT=	15: NNSW=	0:	407	408	415	414
3693	NMAT= 1: NSECT=	15: NNSW=	0:	408	409	416	415
3694	NMAT= 1: NSECT=	15: NNSW=	0:	410	411	418	417
3695	NMAT= 1: NSECT=	15: NNSW=	0:	411	412	419	418
3696	NMAT= 1: NSECT=	15: NNSW=	0:	412	413	420	419
3697	NMAT= 1: NSECT=	15: NNSW=	0:	413	414	421	420
3698	NMAT= 1: NSECT=	15: NNSW=	0:	414	415	422	421
3699	NMAT= 1: NSECT=	15: NNSW=	0:	415	416	423	422
3700	NMAT= 1: NSECT=	8: NNSW=	0:	357	358	383	382
3701	NMAT= 1: NSECT=	8: NNSW=	0:	360	361	384	383
3702	NMAT= 1: NSECT=	8: NNSW=	0:	363	364	385	384
3703	NMAT= 1: NSECT=	8: NNSW=	0:	366	367	386	385
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
3707	NMAT=	1: NSECT=	4: NNSW=	0:	463	464	457	456
3708	NMAT=	1: NSECT=	4: NNSW=	0:	464	465	458	457
3709	NMAT=	1: NSECT=	4: NNSW=	0:	465	466	459	458
3710	NMAT=	1: NSECT=	4: NNSW=	0:	466	467	460	459
3711	NMAT=	1: NSECT=	4: NNSW=	0:	467	468	461	460
3712	NMAT=	1: NSECT=	9: NNSW=	0:	450	451	436	435
3713	NMAT=	1: NSECT=	9: NNSW=	0:	451	452	437	436
3714	NMAT=	1: NSECT=	9: NNSW=	0:	452	453	438	437
3715	NMAT=	1: NSECT=	9: NNSW=	0:	453	454	439	438
3716	NMAT=	1: NSECT=	13: NNSW=	0:	445	446	441	440
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3743	NMAT=	1: NSECT=	13: NNSW=	0:	461	460	401	402
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3746	NMAT=	1: NSECT=	8: NNSW=	0:	1305	1306	1311	1310
3747	NMAT=	1: NSECT=	8: NNSW=	0:	1306	1307	1312	1311
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3751	NMAT=	1: NSECT=	4: NNSW=	0:	1309	1310	1315	1314
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3764	NMAT= 1: NSECT=	4: NNSW=	0:	1320	1321	1326	1325	
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3766	NMAT= 1: NSECT=	4: NNSW=	0:	1322	1323	1328	1327	
3767	NMAT= 1: NSECT=	4: NNSW=	0:	1323	402	409	1328	
3768	NMAT= 1; NSECT=	15; NNSW=	0:	403	1324	1329	410	
3769	NMAT= 1: NSECT=	15: NNSW=	0:	1324	1325	1330	1329	
3770	NMAT= 1: NSECT=	15: NNSW=	0:	1325	1326	1331	1330	
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3772	NMAT= 1: NSECT=	15: NNSW=	0:	1327	1328	1333	1332	
3773	NMAT= 1: NSECT=	15: NNSW=	0:	1328	409	416	1333	
3774	NMAT= 1; NSECT=	15; NNSW=	0:	410	1329	1334	417	
3775	NMAT= 1: NSECT=	15: NNSW=	0:	1329	1330	1335	1334	
3776	NMAT= 1; NSECT=	15; NNSW=	0:	1330	1331	1336	1335	
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3778	NMAT= 1; NSECT=	15; NNSW=	0:	1332	1333	1338	1337	
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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3782	NMAT= 1; NSECT=	8; NNSW=	0:	1293	1294	1311	1310	
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3788	NMAT= 1; NSECT=	4; NNSW=	0:	1363	1364	1359	1358	
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3790	NMAT= 1; NSECT=	4; NNSW=	0:	1365	1366	1361	1360	
3791	NMAT= 1: NSECT=	4: NNSW=	0:	1366	468	461	1361	
3792	NMAT= 1; NSECT=	9; NNSW=	0:	450	1354	1345	435	
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3798	NMAT= 1; NSECT=	13; NNSW=	0:	1352	1353	1350	1349	
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3800	NMAT= 1; NSECT=	8; NNSW=	0:	440	1348	1345	435	
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3808	NMAT= 1; NSECT=	17: NNSW=	0:	424	1339	1342	429	
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3810	NMAT= 1; NSECT=	17; NNSW=	0:	1340	1341	1344	1343	
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3814	NMAT= 1: NSECT=	20: NNSW=	0:	1364	1363	1315	1316	
3815	NMAT= 1: NSECT=	20: NNSW=	0:	1365	1364	1316	1317	
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3818	NMAT= 1: NSECT=	13: NNSW=	0:	1357	455	396	1319	

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3824	NMAT= 1:	NSECT=	17:	NNSW=	0:	142	141	123	124
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3835	NMAT= 1:	NSECT=	9:	NNSW=	0:	154	153	146	147
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3853	NMAT= 1:	NSECT=	11:	NNSW=	0:	182	181	126	127
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3857	NMAT= 1:	NSECT=	11:	NNSW=	0:	186	185	138	139
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3862	NMAT= 1:	NSECT=	11:	NNSW=	0:	192	191	184	185
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3885	NMAT=	1: NSECT=	8: NNSW=	0:	219	220	176	175
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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
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3895	NMAT=	1: NSECT=	5: NNSW=	0:	226	227	198	197
3896	NMAT=	1: NSECT=	17: NNSW=	0:	1115	141	1098	1099
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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
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3911	NMAT=	1: NSECT=	9: NNSW=	0:	1128	1127	1122	1123
3912	NMAT=	1: NSECT=	9: NNSW=	0:	1129	1128	1123	1124
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3917	NMAT=	1: NSECT=	9: NNSW=	0:	166	1132	1129	161
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3924	NMAT=	1: NSECT=	11: NNSW=	0:	1141	180	1098	1099
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3926	NMAT=	1: NSECT=	11: NNSW=	0:	1143	1142	1104	1105
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3931	NMAT=	1: NSECT=	11: NNSW=	0:	1147	1146	1141	1142
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3935	NMAT= 1: NSECT=	11: NNSW=	0:	193	1150	1145	186	
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3950	NMAT= 1: NSECT=	2: NNSW=	0:	1131	1132	1164	1163	
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3972	NMAT= 1: NSECT=	8: NNSW=	0:	729	728	735	736	
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3975	NMAT= 1: NSECT=	20: NNSW=	0:	733	732	739	740	
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3979	NMAT= 1: NSECT=	20: NNSW=	0:	737	736	743	744	
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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	
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4230	NMAT=	1: NSECT=	25:NNSW=	0:	106	105	86
4231	NMAT=	1: NSECT=	26:NNSW=	0:	59	72	58
4232	NMAT=	1: NSECT=	26:NNSW=	0:	59	58	45
4233	NMAT=	1: NSECT=	26:NNSW=	0:	45	58	44
4234	NMAT=	1: NSECT=	26:NNSW=	0:	45	44	28
4235	NMAT=	1: NSECT=	25:NNSW=	0:	74	91	90
4236	NMAT=	1: NSECT=	25:NNSW=	0:	90	109	108
4237	NMAT=	1: NSECT=	25:NNSW=	0:	22	23	39
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4239	NMAT=	1: NSECT=	25:NNSW=	0:	24	25	41
4240	NMAT=	1: NSECT=	25:NNSW=	0:	25	26	43
4241	NMAT=	1: NSECT=	25:NNSW=	0:	42	25	43
4242	NMAT=	1: NSECT=	25:NNSW=	0:	41	25	42
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4246	NMAT=	1: NSECT=	25:NNSW=	0:	39	55	54
4247	NMAT=	1: NSECT=	25:NNSW=	0:	54	55	69
4248	NMAT=	1: NSECT=	25:NNSW=	0:	54	69	68
4249	NMAT=	1: NSECT=	25:NNSW=	0:	68	69	81
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4252	NMAT=	1: NSECT=	25:NNSW=	0:	98	82	99
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4267	NMAT=	1: NSECT=	28:NNSW=	0:	83	71	84
4268	NMAT=	1: NSECT=	30:NNSW=	0:	54	53	39
4269	NMAT=	1: NSECT=	30:NNSW=	0:	80	81	98
4270	NMAT=	1: NSECT=	32:NNSW=	0:	80	98	97
4271	NMAT=	1: NSECT=	31:NNSW=	0:	38	39	53
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4274	NMAT=	1: NSECT=	24:NNSW=	0:	996	995	988

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4277	NMAT=	1: NSECT=	24:NNSW=	0:	998	997	989
4278	NMAT=	1: NSECT=	24:NNSW=	0:	999	998	989
4279	NMAT=	1: NSECT=	24:NNSW=	0:	1001	1000	990
4280	NMAT=	1: NSECT=	24:NNSW=	0:	1002	1001	990
4281	NMAT=	1: NSECT=	24:NNSW=	0:	1004	1003	991
4282	NMAT=	1: NSECT=	24:NNSW=	0:	1005	1004	991
4283	NMAT=	1: NSECT=	24:NNSW=	0:	1007	1006	992
4284	NMAT=	1: NSECT=	24:NNSW=	0:	1008	1007	992
4285	NMAT=	1: NSECT=	24:NNSW=	0:	26	1009	7
4286	NMAT=	1: NSECT=	25:NNSW=	0:	8	993	1010
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4289	NMAT=	1: NSECT=	25:NNSW=	0:	1026	994	1011
4290	NMAT=	1: NSECT=	25:NNSW=	0:	994	995	1011
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4300	NMAT=	1: NSECT=	25:NNSW=	0:	1029	1042	1041
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4302	NMAT=	1: NSECT=	25:NNSW=	0:	1042	1054	1053
4303	NMAT=	1: NSECT=	25:NNSW=	0:	1053	1054	1069
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4314	NMAT=	1: NSECT=	25:NNSW=	0:	1065	1081	1064
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4329	NMAT=	1: NSECT=	25:NNSW=	0:	1024	1009	1025
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4337	NMAT=	1: NSECT=	25:NNSW=	0:	1061	1050	1062
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
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4343	NMAT=	1: NSECT=	25:NNSW=	0:	1079	1097	1096
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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
4351	NMAT=	1: NSECT=	28:NNSW=	0:	1038	57	1051
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4353	NMAT=	1: NSECT=	28:NNSW=	0:	1051	71	1063
4354	NMAT=	1: NSECT=	28:NNSW=	0:	1063	71	84
4355	NMAT=	1: NSECT=	30:NNSW=	0:	1036	1035	1022
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4357	NMAT=	1: NSECT=	32:NNSW=	0:	1060	1077	1076
4358	NMAT=	1: NSECT=	31:NNSW=	0:	1021	1022	1035
4359	NMAT=	1: NSECT=	34:NNSW=	0:	229	237	236
4360	NMAT=	1: NSECT=	34:NNSW=	0:	230	239	238
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4376	NMAT=	1: NSECT=	34:NNSW=	0:	302	288	303
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4378	NMAT=	1: NSECT=	34:NNSW=	0:	302	317	316
4379	NMAT=	1: NSECT=	34:NNSW=	0:	302	316	301
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4387	NMAT=	1: NSECT=	34:NNSW=	0:	250	269	268
4388	NMAT=	1: NSECT=	34:NNSW=	0:	249	250	268

4389	NMAT=	1: NSECT=	34:NNSW=	0:	267	249	268
4390	NMAT=	1: NSECT=	34:NNSW=	0:	248	249	267
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4392	NMAT=	1: NSECT=	34:NNSW=	0:	266	247	248
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4395	NMAT=	1: NSECT=	34:NNSW=	0:	265	266	284
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
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4403	NMAT=	1: NSECT=	27:NNSW=	0:	330	331	348
4404	NMAT=	1: NSECT=	27:NNSW=	0:	331	349	348
4405	NMAT=	1: NSECT=	27:NNSW=	0:	331	332	349
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4407	NMAT=	1: NSECT=	27:NNSW=	0:	350	332	351
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4411	NMAT=	1: NSECT=	27:NNSW=	0:	352	334	335
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4414	NMAT=	1: NSECT=	27:NNSW=	0:	354	336	355
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4424	NMAT=	1: NSECT=	34:NNSW=	0:	1171	1178	1177
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4436	NMAT=	1: NSECT=	34:NNSW=	0:	1192	1209	1208
4437	NMAT=	1: NSECT=	34:NNSW=	0:	1208	1209	1224
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4440	NMAT=	1: NSECT=	34:NNSW=	0:	1237	1224	1238
4441	NMAT=	1: NSECT=	34:NNSW=	0:	1237	1238	1251
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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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4449	NMAT=	1: NSECT=	34:NNSW=	0:	1189	1207	1206
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
4453	NMAT=	1: NSECT=	34:NNSW=	0:	1204	1188	1205
4454	NMAT=	1: NSECT=	34:NNSW=	0:	1187	1188	1204
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4456	NMAT=	1: NSECT=	34:NNSW=	0:	1203	1186	1187
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4458	NMAT=	1: NSECT=	34:NNSW=	0:	1203	1204	1220
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4466	NMAT=	1: NSECT=	27:NNSW=	0:	1185	1186	1202
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4477	NMAT=	1: NSECT=	27:NNSW=	0:	1286	1252	1269
4478	NMAT=	1: NSECT=	27:NNSW=	0:	1286	1269	355
4479	NMAT=	1: NSECT=	31:NNSW=	0:	1284	1268	1285
4480	NMAT=	1: NSECT=	31:NNSW=	0:	1285	1268	1286
4481	NMAT=	1: NSECT=	29:NNSW=	0:	1189	1190	1207
4482	NMAT=	1: NSECT=	29:NNSW=	0:	1208	1191	1192
4483	NMAT=	1: NSECT=	25:NNSW=	0:	1250	1251	1267
4484	NMAT=	1: NSECT=	25:NNSW=	0:	1267	1251	1268
4485	NMAT=	1: NSECT=	25:NNSW=	0:	1268	1251	1252
4486	NMAT=	1: NSECT=	25:NNSW=	0:	1252	1251	1238
4487	NMAT=	1: NSECT=	39:NNSW=	0:	476	469	477
4488	NMAT=	1: NSECT=	39:NNSW=	0:	478	470	479
4489	NMAT=	1: NSECT=	39:NNSW=	0:	479	470	480
4490	NMAT=	1: NSECT=	39:NNSW=	0:	481	471	482
4491	NMAT=	1: NSECT=	39:NNSW=	0:	482	471	483
4492	NMAT=	1: NSECT=	39:NNSW=	0:	484	472	485
4493	NMAT=	1: NSECT=	39:NNSW=	0:	486	485	472
4494	NMAT=	1: NSECT=	39:NNSW=	0:	488	487	473
4495	NMAT=	1: NSECT=	39:NNSW=	0:	489	488	473
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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4503	NMAT=	1: NSECT=	30:NNSW=	0:	592	574	593
4504	NMAT=	1: NSECT=	30:NNSW=	0:	593	574	594
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
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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
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4534	NMAT=	1: NSECT=	39:NNSW=	0:	1373	1367	1374
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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
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4550	NMAT=	1: NSECT=	30:NNSW=	0:	1476	1459	1477
4551	NMAT=	1: NSECT=	30:NNSW=	0:	1476	1477	1493
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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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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
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4574	NMAT=	1: NSECT=	25:NNSW=	0:	1539	1540	1557
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4578	NMAT=	1: NSECT=	40:NNSW=	0:	627	1522	644
4579	NMAT=	1: NSECT=	43:NNSW=	0:	1759	1760	1765
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4582	NMAT=	1: NSECT=	43:NNSW=	0:	1692	1688	1693
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4595	NMAT=	1: NSECT=	33:NNSW=	0:	1696	1067	1697
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4605	NMAT=	1: NSECT=	33:NNSW=	0:	1013	1692	996
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4615	NMAT=	1: NSECT=	33:NNSW=	0:	1754	1250	1267
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4626	NMAT=	1: NSECT=	33:NNSW=	0:	1040	1027	1706	
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4633	NMAT=	1: NSECT=	33:NNSW=	0:	1012	1691	1698	
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4635	NMAT=	1: NSECT=	25:NNSW=	0:	856	254	855	
4636	NMAT=	1: NSECT=	25:NNSW=	0:	856	272	254	
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4640	NMAT=	1: NSECT=	25:NNSW=	0:	858	303	288	
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4642	NMAT=	1: NSECT=	25:NNSW=	0:	859	318	303	
4643	NMAT=	1: NSECT=	25:NNSW=	0:	27	834	8	
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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	
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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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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	
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4672	NMAT=	1: NSECT=	25:NNSW=	0:	1026	1669	1668	
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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	NMAT=	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
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4685	NMAT=	1: NSECT=	27:NNSW=	0:	833	1064	103
4686	NMAT=	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
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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
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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
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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	NMAT=	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	NMAT=	1: NSECT=	33:NNSW=	0:	928	316	927
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4724	NMAT=	1: NSECT=	33:NNSW=	0:	927	334	926
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4971	NMAT=	1: NSECT=	34:NNSW=	0:	181	125	126
4972	NMAT=	1: NSECT=	34:NNSW=	0:	182	127	128
4973	NMAT=	1: NSECT=	34:NNSW=	0:	182	128	129
4974	NMAT=	1: NSECT=	34:NNSW=	0:	183	130	131
4975	NMAT=	1: NSECT=	34:NNSW=	0:	183	131	132
4976	NMAT=	1: NSECT=	34:NNSW=	0:	184	133	134
4977	NMAT=	1: NSECT=	34:NNSW=	0:	184	134	135
4978	NMAT=	1: NSECT=	34:NNSW=	0:	185	136	137
4979	NMAT=	1: NSECT=	34:NNSW=	0:	185	137	138
4980	NMAT=	1: NSECT=	34:NNSW=	0:	186	139	140
4981	NMAT=	1: NSECT=	26:NNSW=	0:	194	187	188
4982	NMAT=	1: NSECT=	26:NNSW=	0:	194	188	195
4983	NMAT=	1: NSECT=	26:NNSW=	0:	195	188	189
4984	NMAT=	1: NSECT=	26:NNSW=	0:	195	189	196
4985	NMAT=	1: NSECT=	26:NNSW=	0:	196	189	190
4986	NMAT=	1: NSECT=	26:NNSW=	0:	196	190	191
4987	NMAT=	1: NSECT=	26:NNSW=	0:	196	191	197
4988	NMAT=	1: NSECT=	26:NNSW=	0:	197	191	192
4989	NMAT=	1: NSECT=	26:NNSW=	0:	197	192	198
4990	NMAT=	1: NSECT=	26:NNSW=	0:	198	192	193
4991	NMAT=	1: NSECT=	31:NNSW=	0:	199	8	9
4992	NMAT=	1: NSECT=	31:NNSW=	0:	200	10	11
4993	NMAT=	1: NSECT=	31:NNSW=	0:	200	11	12
4994	NMAT=	1: NSECT=	31:NNSW=	0:	201	13	14
4995	NMAT=	1: NSECT=	31:NNSW=	0:	201	14	15
4996	NMAT=	1: NSECT=	31:NNSW=	0:	202	16	17
4997	NMAT=	1: NSECT=	31:NNSW=	0:	202	17	18
4998	NMAT=	1: NSECT=	31:NNSW=	0:	203	19	20
4999	NMAT=	1: NSECT=	31:NNSW=	0:	203	20	21
5000	NMAT=	1: NSECT=	31:NNSW=	0:	204	22	23
5001	NMAT=	1: NSECT=	31:NNSW=	0:	204	23	24
5002	NMAT=	1: NSECT=	31:NNSW=	0:	205	25	26
5003	NMAT=	1: NSECT=	31:NNSW=	0:	206	199	200
5004	NMAT=	1: NSECT=	31:NNSW=	0:	206	200	207
5005	NMAT=	1: NSECT=	31:NNSW=	0:	207	200	201
5006	NMAT=	1: NSECT=	31:NNSW=	0:	207	201	208
5007	NMAT=	1: NSECT=	31:NNSW=	0:	208	201	202
5008	NMAT=	1: NSECT=	31:NNSW=	0:	208	202	203
5009	NMAT=	1: NSECT=	31:NNSW=	0:	208	203	209
5010	NMAT=	1: NSECT=	31:NNSW=	0:	209	203	204
5011	NMAT=	1: NSECT=	31:NNSW=	0:	209	204	210
5012	NMAT=	1: NSECT=	31:NNSW=	0:	210	204	205
5013	NMAT=	1: NSECT=	31:NNSW=	0:	211	206	207
5014	NMAT=	1: NSECT=	31:NNSW=	0:	211	207	208
5015	NMAT=	1: NSECT=	31:NNSW=	0:	211	208	209

5016	NMAT=	1: NSECT=	31:NNSW=	0:	211	209	210
5017	NMAT=	1: NSECT=	25:NNSW=	0:	213	155	156
5018	NMAT=	1: NSECT=	25:NNSW=	0:	214	213	156
5019	NMAT=	1: NSECT=	25:NNSW=	0:	214	156	157
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5021	NMAT=	1: NSECT=	25:NNSW=	0:	215	157	158
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5024	NMAT=	1: NSECT=	25:NNSW=	0:	216	159	160
5025	NMAT=	1: NSECT=	25:NNSW=	0:	216	160	217
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5027	NMAT=	1: NSECT=	25:NNSW=	0:	212	162	163
5028	NMAT=	1: NSECT=	25:NNSW=	0:	212	163	164
5029	NMAT=	1: NSECT=	25:NNSW=	0:	212	164	165
5030	NMAT=	1: NSECT=	25:NNSW=	0:	212	165	166
5031	NMAT=	1: NSECT=	27:NNSW=	0:	228	162	212
5032	NMAT=	1: NSECT=	27:NNSW=	0:	228	163	212
5033	NMAT=	1: NSECT=	27:NNSW=	0:	228	164	212
5034	NMAT=	1: NSECT=	27:NNSW=	0:	228	165	212
5035	NMAT=	1: NSECT=	27:NNSW=	0:	228	166	212
5036	NMAT=	1: NSECT=	27:NNSW=	0:	212	162	213
5037	NMAT=	1: NSECT=	27:NNSW=	0:	212	163	214
5038	NMAT=	1: NSECT=	27:NNSW=	0:	212	164	215
5039	NMAT=	1: NSECT=	27:NNSW=	0:	212	165	216
5040	NMAT=	1: NSECT=	27:NNSW=	0:	212	166	217
5041	NMAT=	1: NSECT=	25:NNSW=	0:	206	187	188
5042	NMAT=	1: NSECT=	25:NNSW=	0:	207	206	188
5043	NMAT=	1: NSECT=	25:NNSW=	0:	207	188	189
5044	NMAT=	1: NSECT=	25:NNSW=	0:	208	207	189
5045	NMAT=	1: NSECT=	25:NNSW=	0:	208	189	190
5046	NMAT=	1: NSECT=	25:NNSW=	0:	208	190	191
5047	NMAT=	1: NSECT=	25:NNSW=	0:	208	190	191
5048	NMAT=	1: NSECT=	25:NNSW=	0:	208	191	209
5049	NMAT=	1: NSECT=	25:NNSW=	0:	209	191	192
5050	NMAT=	1: NSECT=	25:NNSW=	0:	209	192	210
5051	NMAT=	1: NSECT=	25:NNSW=	0:	210	192	193
5052	NMAT=	1: NSECT=	32:NNSW=	0:	163	156	157
5053	NMAT=	1: NSECT=	32:NNSW=	0:	165	159	160
5054	NMAT=	1: NSECT=	40:NNSW=	0:	141	122	1098
5055	NMAT=	1: NSECT=	40:NNSW=	0:	1115	1099	1100
5056	NMAT=	1: NSECT=	40:NNSW=	0:	1115	1100	1101
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5058	NMAT=	1: NSECT=	40:NNSW=	0:	1116	1103	1104
5059	NMAT=	1: NSECT=	40:NNSW=	0:	1117	1105	1106
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5061	NMAT=	1: NSECT=	40:NNSW=	0:	1118	1108	1109
5062	NMAT=	1: NSECT=	40:NNSW=	0:	1118	1109	1110
5063	NMAT=	1: NSECT=	40:NNSW=	0:	1119	1111	1112
5064	NMAT=	1: NSECT=	40:NNSW=	0:	1119	1112	1113
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5066	NMAT=	1: NSECT=	25:NNSW=	0:	228	162	1130
5067	NMAT=	1: NSECT=	25:NNSW=	0:	228	1130	1131
5068	NMAT=	1: NSECT=	25:NNSW=	0:	228	1131	1132
5069	NMAT=	1: NSECT=	25:NNSW=	0:	228	1132	166
5070	NMAT=	1: NSECT=	43:NNSW=	0:	174	167	1133
5071	NMAT=	1: NSECT=	43:NNSW=	0:	1138	174	1133
5072	NMAT=	1: NSECT=	43:NNSW=	0:	1138	1133	1134

5073	NMAT=	1: NSECT=	43:NNSW=	0:	1139	1138	1134
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5075	NMAT=	1: NSECT=	43:NNSW=	0:	1139	1135	1136
5076	NMAT=	1: NSECT=	43:NNSW=	0:	1139	1136	1140
5077	NMAT=	1: NSECT=	43:NNSW=	0:	1140	1136	1137
5078	NMAT=	1: NSECT=	43:NNSW=	0:	1140	1137	178
5079	NMAT=	1: NSECT=	43:NNSW=	0:	178	1137	173
5080	NMAT=	1: NSECT=	25:NNSW=	0:	179	174	1138
5081	NMAT=	1: NSECT=	25:NNSW=	0:	179	1138	1139
5082	NMAT=	1: NSECT=	25:NNSW=	0:	179	1139	1140
5083	NMAT=	1: NSECT=	25:NNSW=	0:	179	1140	178
5084	NMAT=	1: NSECT=	34:NNSW=	0:	180	122	1098
5085	NMAT=	1: NSECT=	34:NNSW=	0:	1141	1099	1100
5086	NMAT=	1: NSECT=	34:NNSW=	0:	1141	1100	1101
5087	NMAT=	1: NSECT=	34:NNSW=	0:	1142	1102	1103
5088	NMAT=	1: NSECT=	34:NNSW=	0:	1142	1103	1104
5089	NMAT=	1: NSECT=	34:NNSW=	0:	1143	1105	1106
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5091	NMAT=	1: NSECT=	34:NNSW=	0:	1144	1108	1109
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5093	NMAT=	1: NSECT=	34:NNSW=	0:	1145	1111	1112
5094	NMAT=	1: NSECT=	34:NNSW=	0:	1145	1112	1113
5095	NMAT=	1: NSECT=	34:NNSW=	0:	186	1114	140
5096	NMAT=	1: NSECT=	26:NNSW=	0:	194	187	1146
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5098	NMAT=	1: NSECT=	26:NNSW=	0:	1151	1146	1147
5099	NMAT=	1: NSECT=	26:NNSW=	0:	1151	1147	1152
5100	NMAT=	1: NSECT=	26:NNSW=	0:	1152	1147	1148
5101	NMAT=	1: NSECT=	26:NNSW=	0:	1152	1148	1149
5102	NMAT=	1: NSECT=	26:NNSW=	0:	1152	1149	1153
5103	NMAT=	1: NSECT=	26:NNSW=	0:	1153	1149	1150
5104	NMAT=	1: NSECT=	26:NNSW=	0:	1153	1150	198
5105	NMAT=	1: NSECT=	26:NNSW=	0:	198	1150	193
5106	NMAT=	1: NSECT=	31:NNSW=	0:	199	8	993
5107	NMAT=	1: NSECT=	31:NNSW=	0:	1154	994	995
5108	NMAT=	1: NSECT=	31:NNSW=	0:	1154	995	996
5109	NMAT=	1: NSECT=	31:NNSW=	0:	1155	997	998
5110	NMAT=	1: NSECT=	31:NNSW=	0:	1155	998	999
5111	NMAT=	1: NSECT=	31:NNSW=	0:	1156	1000	1001
5112	NMAT=	1: NSECT=	31:NNSW=	0:	1156	1001	1002
5113	NMAT=	1: NSECT=	31:NNSW=	0:	1157	1003	1004
5114	NMAT=	1: NSECT=	31:NNSW=	0:	1157	1004	1005
5115	NMAT=	1: NSECT=	31:NNSW=	0:	1158	1006	1007
5116	NMAT=	1: NSECT=	31:NNSW=	0:	1158	1007	1008
5117	NMAT=	1: NSECT=	31:NNSW=	0:	205	1009	26
5118	NMAT=	1: NSECT=	31:NNSW=	0:	206	199	1154
5119	NMAT=	1: NSECT=	31:NNSW=	0:	206	1154	1159
5120	NMAT=	1: NSECT=	31:NNSW=	0:	1159	1154	1155
5121	NMAT=	1: NSECT=	31:NNSW=	0:	1159	1155	1160
5122	NMAT=	1: NSECT=	31:NNSW=	0:	1160	1155	1156
5123	NMAT=	1: NSECT=	31:NNSW=	0:	1160	1156	1157
5124	NMAT=	1: NSECT=	31:NNSW=	0:	1160	1157	1161
5125	NMAT=	1: NSECT=	31:NNSW=	0:	1161	1157	1158
5126	NMAT=	1: NSECT=	31:NNSW=	0:	1161	1158	210
5127	NMAT=	1: NSECT=	31:NNSW=	0:	210	1158	205
5128	NMAT=	1: NSECT=	31:NNSW=	0:	211	206	1159
5129	NMAT=	1: NSECT=	31:NNSW=	0:	211	1159	1160

5130	NMAT=	1: NSECT=	31:NNSW=	0:	211	1160	1161
5131	NMAT=	1: NSECT=	31:NNSW=	0:	211	1161	210
5132	NMAT=	1: NSECT=	25:NNSW=	0:	213	155	1125
5133	NMAT=	1: NSECT=	25:NNSW=	0:	1162	213	1125
5134	NMAT=	1: NSECT=	25:NNSW=	0:	1162	1125	1126
5135	NMAT=	1: NSECT=	25:NNSW=	0:	1163	1162	1126
5136	NMAT=	1: NSECT=	25:NNSW=	0:	1163	1126	1127
5137	NMAT=	1: NSECT=	25:NNSW=	0:	1163	1127	1128
5138	NMAT=	1: NSECT=	25:NNSW=	0:	1163	1128	1164
5139	NMAT=	1: NSECT=	25:NNSW=	0:	1164	1128	1129
5140	NMAT=	1: NSECT=	25:NNSW=	0:	1164	1129	217
5141	NMAT=	1: NSECT=	25:NNSW=	0:	217	1129	161
5142	NMAT=	1: NSECT=	25:NNSW=	0:	212	162	1130
5143	NMAT=	1: NSECT=	25:NNSW=	0:	212	1130	1131
5144	NMAT=	1: NSECT=	25:NNSW=	0:	212	1131	1132
5145	NMAT=	1: NSECT=	25:NNSW=	0:	212	1132	166
5146	NMAT=	1: NSECT=	27:NNSW=	0:	228	1130	212
5147	NMAT=	1: NSECT=	27:NNSW=	0:	228	1131	212
5148	NMAT=	1: NSECT=	27:NNSW=	0:	228	1132	212
5149	NMAT=	1: NSECT=	27:NNSW=	0:	212	1130	1162
5150	NMAT=	1: NSECT=	27:NNSW=	0:	212	1131	1163
5151	NMAT=	1: NSECT=	27:NNSW=	0:	212	1132	1164
5152	NMAT=	1: NSECT=	25:NNSW=	0:	206	187	1146
5153	NMAT=	1: NSECT=	25:NNSW=	0:	1159	206	1146
5154	NMAT=	1: NSECT=	25:NNSW=	0:	1159	1146	1147
5155	NMAT=	1: NSECT=	25:NNSW=	0:	1160	1159	1147
5156	NMAT=	1: NSECT=	25:NNSW=	0:	1160	1147	1148
5157	NMAT=	1: NSECT=	25:NNSW=	0:	1160	1148	1149
5158	NMAT=	1: NSECT=	25:NNSW=	0:	1160	1149	1161
5159	NMAT=	1: NSECT=	25:NNSW=	0:	1161	1149	1150
5160	NMAT=	1: NSECT=	25:NNSW=	0:	1161	1150	210
5161	NMAT=	1: NSECT=	25:NNSW=	0:	210	1150	193
5162	NMAT=	1: NSECT=	32:NNSW=	0:	1130	1125	1126
5163	NMAT=	1: NSECT=	32:NNSW=	0:	1132	1128	1129
5164	NMAT=	1: NSECT=	36:NNSW=	0:	718	719	720
5165	NMAT=	1: NSECT=	36:NNSW=	0:	718	720	721
5166	NMAT=	1: NSECT=	36:NNSW=	0:	718	721	722
5167	NMAT=	1: NSECT=	36:NNSW=	0:	718	722	723
5168	NMAT=	1: NSECT=	25:NNSW=	0:	719	724	725
5169	NMAT=	1: NSECT=	25:NNSW=	0:	719	725	720
5170	NMAT=	1: NSECT=	25:NNSW=	0:	720	725	726
5171	NMAT=	1: NSECT=	25:NNSW=	0:	720	726	721
5172	NMAT=	1: NSECT=	25:NNSW=	0:	721	726	727
5173	NMAT=	1: NSECT=	25:NNSW=	0:	721	727	728
5174	NMAT=	1: NSECT=	25:NNSW=	0:	721	728	722
5175	NMAT=	1: NSECT=	25:NNSW=	0:	722	728	729
5176	NMAT=	1: NSECT=	25:NNSW=	0:	722	729	723
5177	NMAT=	1: NSECT=	25:NNSW=	0:	723	729	730
5178	NMAT=	1: NSECT=	31:NNSW=	0:	752	757	758
5179	NMAT=	1: NSECT=	31:NNSW=	0:	752	758	753
5180	NMAT=	1: NSECT=	31:NNSW=	0:	753	758	759
5181	NMAT=	1: NSECT=	31:NNSW=	0:	753	759	754
5182	NMAT=	1: NSECT=	31:NNSW=	0:	754	759	760
5183	NMAT=	1: NSECT=	31:NNSW=	0:	760	761	754
5184	NMAT=	1: NSECT=	31:NNSW=	0:	754	761	755
5185	NMAT=	1: NSECT=	31:NNSW=	0:	755	761	762
5186	NMAT=	1: NSECT=	31:NNSW=	0:	755	762	756

5187	NMAT=	1: NSECT=	31:NNSW=	0:	756	762	763
5188	NMAT=	1: NSECT=	36:NNSW=	0:	771	776	777
5189	NMAT=	1: NSECT=	36:NNSW=	0:	771	777	772
5190	NMAT=	1: NSECT=	36:NNSW=	0:	772	777	778
5191	NMAT=	1: NSECT=	36:NNSW=	0:	772	778	773
5192	NMAT=	1: NSECT=	36:NNSW=	0:	773	778	779
5193	NMAT=	1: NSECT=	36:NNSW=	0:	773	779	780
5194	NMAT=	1: NSECT=	36:NNSW=	0:	773	780	774
5195	NMAT=	1: NSECT=	36:NNSW=	0:	774	780	781
5196	NMAT=	1: NSECT=	36:NNSW=	0:	774	781	775
5197	NMAT=	1: NSECT=	36:NNSW=	0:	775	781	782
5198	NMAT=	1: NSECT=	36:NNSW=	0:	790	795	796
5199	NMAT=	1: NSECT=	36:NNSW=	0:	790	796	791
5200	NMAT=	1: NSECT=	36:NNSW=	0:	791	796	797
5201	NMAT=	1: NSECT=	36:NNSW=	0:	791	797	792
5202	NMAT=	1: NSECT=	36:NNSW=	0:	792	797	798
5203	NMAT=	1: NSECT=	36:NNSW=	0:	792	798	799
5204	NMAT=	1: NSECT=	36:NNSW=	0:	792	799	793
5205	NMAT=	1: NSECT=	36:NNSW=	0:	793	799	800
5206	NMAT=	1: NSECT=	36:NNSW=	0:	793	800	794
5207	NMAT=	1: NSECT=	36:NNSW=	0:	794	800	801
5208	NMAT=	1: NSECT=	29:NNSW=	0:	816	699	700
5209	NMAT=	1: NSECT=	29:NNSW=	0:	817	701	702
5210	NMAT=	1: NSECT=	29:NNSW=	0:	817	702	703
5211	NMAT=	1: NSECT=	29:NNSW=	0:	818	704	705
5212	NMAT=	1: NSECT=	29:NNSW=	0:	818	705	706
5213	NMAT=	1: NSECT=	29:NNSW=	0:	819	707	708
5214	NMAT=	1: NSECT=	29:NNSW=	0:	819	708	709
5215	NMAT=	1: NSECT=	29:NNSW=	0:	820	710	711
5216	NMAT=	1: NSECT=	29:NNSW=	0:	820	711	712
5217	NMAT=	1: NSECT=	29:NNSW=	0:	821	713	714
5218	NMAT=	1: NSECT=	29:NNSW=	0:	821	714	715
5219	NMAT=	1: NSECT=	29:NNSW=	0:	822	716	717
5220	NMAT=	1: NSECT=	31:NNSW=	0:	823	699	700
5221	NMAT=	1: NSECT=	31:NNSW=	0:	824	701	702
5222	NMAT=	1: NSECT=	31:NNSW=	0:	824	702	703
5223	NMAT=	1: NSECT=	31:NNSW=	0:	825	704	705
5224	NMAT=	1: NSECT=	31:NNSW=	0:	825	705	706
5225	NMAT=	1: NSECT=	31:NNSW=	0:	826	707	708
5226	NMAT=	1: NSECT=	31:NNSW=	0:	826	708	709
5227	NMAT=	1: NSECT=	31:NNSW=	0:	827	710	711
5228	NMAT=	1: NSECT=	31:NNSW=	0:	827	711	712
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

```
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
5264  NMAT=  1: NSECT=  36:NNSW=  0:  1626  1631  775
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)
```

```
5301      1,7
5302      228,235
5303      469,475
5304      988,992
5305      1171,1175
5306      1367,1371
5307      *                    ENDHWM

@PRT,S MCC.ALL
```

```
MCOLEYB1N202*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 29.6+6 0.29 0.4086 $ DENSITY CHANGED PER CTW 2/7/83 BY MJF
      7       2 18.4+6  0.35  0.33    1.05-5   1.05-5$  NARLOY Z
      8       JOINT LOCATIONS$
      9          FORMAT=2$
     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 10.70 340.0 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 1.42,0.27$
     38            BOX 2, 1.3,0.65 1.3,0.65$
     39       SA(3)
     40       FORMAT=LAMINATE$
     41         1$ Z-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$ Z-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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```
     1.98+4 0.0 0.0 0.0 0.0 0.0$
0.307 0.0 0.35>
     7.34+5 2.57+5 7.34+5 0.0 0.0 2.39+5>
     74.9   26.2   74.9   0.0 0.0 24.3$
3$ Z-COORDINATES 2.942 TO 4.785
0.0  0.0  0.092>
     2.97+6 8.61+5 2.97+6 0.0 0.0 9.66+5>
     2.05+3 594.0 2.05+3 0.0 0.0 729.0$
0.144 0.0 0.197>
     3.62+6 0.0 0.0 0.0 0.0 0.0>
     1.17+4 0.0 0.0 0.0 0.0 0.0$
0.26 0.0 0.035>
     7.34+5 2.57+5 7.34+5 0.0 0.0 2.39+5>
     74.9   26.2   74.9   0.0 0.0 24.3$
4$ Z-COORDINATES 4.485 TO 6.414
0.0 0.0 0.35>
     1.13+7 3.28+6 1.13+7 0.0 0.0 4.01+6>
     1.13+5 3.28+4 1.13+5 0.0 0.0 4.01+4$
0.269 0.0 0.188>
     3.46+6 0.0 0.0 0.0 0.0 0.0>
     1.02+4 0.0 0.0 0.0 0.0  .0$
0.377 0.0 0.028>
     5.87+5 2.05+5 5.87+5 0.0 0.0 1.91+5>
     38.35  13.42  38.35  0.0 0.0 12.46$
5$ Z-COORDINATES 6.414 TO 7.785
0.0 0.0 0.35>
     1.13+7 3.28+6 1.13+7 0.0 0.0 4.01+6>
     1.13+5 3.28+4 1.13+5 0.0 0.0 4.01+4$
0.228 0.0 0.107>
     1.97+6 0.0 0.0 0.0 0.0 0.0>
     1.88+3 0.0 0.0 0.0 0.0 0.0$
0.296 0.0 0.028>
     5.87+5 2.05+5 5.87+5 0.0 0.0 1.91+5>
     38.35  13.42  38.35  0.0 0.0 12.46$
6$ Z-COORDINATES 7.785 TO 8.785
0.0   0.0 0.177>
     5.72+6 1.66+6 5.72+6 0.0 0.0 2.03+6>
     1.46+4 4.23+3 1.46+4 0.0 0.0 5.18+3$
0.134 0.0 0.092>
     1.69+6 0.0 0.0 0.0 0.0 0.0>
     1.19+3 0.0 0.0 0.0 0.0 0.0$
0.194 0.0 0.028>
     5.87+5 2.05+5 5.87+5 0.0 0.0 1.91+5>
     38.35  13.42  38.35  0.0 0.0 12.46$
7$ Z-COORDINATE 8.785 TO 10.285
0.0 0.0 0.213>
     6.88+6 2.00+6 6.88+6 0.0 0.0 2.44+6>
     2.55+4 7.40+3 2.55+4 0.0 0.0 9.05+3$
0.148 0.0 0.084>
     1.55+6 0.0 0.0 0.0 0.0 0.0>
     908.6  0.0 0.0 0.0 0.0 0.0$
0.204 0.0 0.028>
     5.87+5 2.05+5 5.87+5 0.0 0.0 1.91+5>
     38.35  13.42  38.35  0.0 0.0 12.46$
8$ Z-COORDINATE 10.285 TO 12.498
0.0 0.0 0.241>
     7.79+6 2.26+6 7.79+6 0.0 0.0 2.77+6>
```

```
      3.69+4 1.07+4 3.69+4 0.0 0.0 1.31+4$
0.174 0.0 0.108>
      1.99+6 0.0 0.0 0.0 0.0 0.0>
      1.93+3 0.0 0.0 0.0 0.0 0.0$
0.242 0.0 0.108>
      5.87+5 2.05+5 5.87+5 0.0 0.0 1.91+5>
      38.35 13.42 38.35 0.0 0.0 12.46$
 9$ Z-COORDINATE 12.488 TO 13.785
 0.0 0.0 0.255>
      8.24+6 2.39+6 8.24+6 0.0 0.0 2.93+6>
      4.38+4 1.27+4 4.38+4 0.0 0.0 1.55+4$
0.177 0.0 0.1>
      1.84+6 0.0 0.0 0.0 0.0 0.0>
      1.84+3 0.0 0.0 0.0 0.0 0.0$
0.245 0.0 0.35>
      7.34+5 2.57+5 7.34+5 0.0 0.0 2.39+5>
      74.9 26.2 74.9 0.0 0.0 24.3$
 10$ Z-COORDINATE 13.785 TO 16.258
0.0 0.0 0.293>
      9.47+6 2.75+6 9.47+6 0.0 0.0 3.36+6>
      6.64+4 1.93+4 6.64+4 0.0 0.0 2.36+4$
0.195 0.0 0.098>
      1.80+6 0.0 0.0 0.0 0.0 0.0>
      1.44+3 0.0 0.0 0.0 0.0 0.0$
0.262 0.0 0.035>
      7.34+5 2.57+5 7.34+5 0.0 0.0 2.39+5>
      74.9 26.2 74.9 0.0 0.0 24.3$
 11$ Z-COORDINATE 16.258 TO 18.985
 0.0 0.0 0.382>
      1.23+7 3.57+6 1.23+7 0.0 0.0 4.38+6>
      1.47+5 4.26+4 1.47+5 0.0 0.0 5.22+4$
0.24 0.0 0.098>
      1.80+6 0.0 0.0 0.0 0.0 0.0>
      1.44+3 0.0 0.0 0.0 0.0 0.0$
0.306 0.0 0.035>
      7.34+5 2.57+5 7.34+5 0.0 0.0 2.39+5>
      74.9 26.2 74.9 0.0 0.0 24.3$
 FORMAT=ISOTROPICS
      12, 0.30$ THROAT RING CONNECTION
      13, 0.135$ THROAT RING
 FORMAT=LAMINATES
  14$ Z-COORDINATE -2.035 TO 0.0
 0.0 0.0 0.80>
      2.59+7 7.51+6 2.59+7 0.0 0.0 9.18+6>
      1.35+6 3.91+5 1.35+6 0.0 0.0 4.80+5$
0.59 0.0 0.24>
      4.42+6 0.0 0.0 0.0 0.0 0.0>
      2.12+4 0.0 0.0 0.0 0.0 0.0$
0.724 0.0 0.0 0.035>
      7.34+4 2.57+5 7.34+5 0.0 0.0 2.39+5>
      74.9 26.2 74.9 0.0 0.0 24.3$
 FORMAT=ISOTROPICS
      15, 1.0$ UPPER RING
      16, 1.6$ UPPER RING
      17, 0.5$ LOWER RING
W(1): .138, .0696, .0714, .1442, .1309, .077, .0864: W(8): .0986$
W(9): .1038, .1148: W(11): .1413$
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```
171     M(19): ..286$
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 1$ BOTTOM RING
186     NMAT=1$
187     NSECT=1
188     NOFF=1$
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 2$ TOP RING
193     NSECT=2
194     NOFF=2$
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=1$
201           1  19  20   2 2 18 1$
202     NSECT=2$
203           19  55  56  20 2 18 1$
204     NSECT=3$
205           55  73  74  56 2 18 1$
206     NSECT=4$
207           73  91  92  74 2 18 1$ THICKENED THROAT SECTION
208     NSECT=5$
209           91 109 110  92 2 18 1$ THICKENED THROAT SECTION
210     NSECT=6$
211         109 127 128 110 2 18 1$
212     NSECT=7$
213           127 145 146 128 2 18 1$
214     NSECT=8$
215           145 163 164 146 2 18 1$
216     NSECT=9$
217         163 181 182 164 2 18 1$
218     NSECT=10$
219           181 217 218 182 2 18 1$
220     NSECT=11$
221         217 235 236 218 2 18 1$
222     NSECT=12
223           19  37  38  20 2 18 1$ THROAT RING CONNECTION
224         199 181 182 200 2 18 1$THROAT RING CONNECTION
225       GROUP 2* THROAT RING
226     NSECT=13
227           37 253 254  38 2 18 1$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 RINGE43
237          NSECT=17
238             355 307 308 356 2 18 1$ LOWER RING E43
239       E33 $ PER CTW 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       *(UN)
272       343,354  $  UPPER INTERFACE NODES TO HGM
273       355,372  $  LOWER INTERFACE NODES TO NOZ5
274       *                              ENDMCC

@PRT,S HPOTP.ALL
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```
MFOLEYBIN202,HPOTP(1),ALL
      1      *(29 HPOTP DATA 1)                                          ENDHPOTP
      2      G=366.,SEQ=0,HICORE=150000.
      3      *ITAB)
      4      START 1069 $ HPOTP
      5      TITLE* HPOTP CHECKOUT
      6      ALTREF
      7      FORMAT=1
      8                2 1 -90.0000 2 109.2029 3 180.0000     -1.811045     -9.76761    10.075
      9      $
     10      $  *****  ALTREF 2 CHANGED 3/24/83 BY M. FOLEY PER M. TILLEY.  *****
     11      $  *****  ALTREF 7 IS NO GOOD , BUT IS NOT USED ANYWAY ....    *****
     12      $
     13                3 1 180.0000 2 180.0000 3 220.1999      .000        .000        .000
     14                4 1 180.0000 2 180.0000 3 220.1999      .000        .000      10.075
     15                5 1    .0000 2 180.0000 3 180.0000      .000        .000      10.075
     16                6 1    .0000 2    .0000 3    .0000      .000        .000      10.075
     17                7 1 -90.0000 2   0.  3 180.0000     -3.279      3.093      10.075
     18                8 1 -90.0000 2 -90.0000 3 -90.0000    10.150       .000      10.075
     19      JLOC
     20      NREF=  2
     21                1   .265000+01   .000000     -.924000+01$
     22                2   .214390+01   .155763+01  -.924000+01$
     23                3   .818895+00   .252030+01  -.924000+01$
     24                4  -.818895+00   .252030+01  -.924000+01$
     25                5  -.214390+01   .155763+01  -.924000+01$
     26                6  -.265000+01   .842342-07  -.924000+01$
     27                7  -.214390+01  -.155763+01  -.924000+01$
     28                8  -.818895+00  -.252030+01  -.924000+01$
     29                9   .818895+00  -.252030+01  -.924000+01$
     30               10   .214390+01  -.155763+01  -.924000+01$
     31               11   .228000+01   .000000     -.830900+01$
     32               12   .184456+01   .134015+01  -.830900+01$
     33               13   .704559+00   .216841+01  -.830900+01$
     34               14  -.704559+00   .216841+01  -.830900+01$
     35               15  -.184456+01   .134015+01  -.830900+01$
     36               16  -.228000+01   .724732-07  -.830900+01$
     37               17  -.184456+01  -.134015+01  -.830900+01$
     38               18  -.704559+00  -.216841+01  -.830900+01$
     39               19   .704559+00  -.216841+01  -.830900+01$
     40               20   .184456+01  -.134015+01  -.830900+01$
     41               21   .150000+01   .000000     -.695900+01$
     42               22   .149668+01   .108740+01  -.695900+01$
     43               23   .686018+00   .211135+01  -.695900+01$
     44               24  -.686018+00   .211135+01  -.695900+01$
     45               25  -.173939+01   .126374+01  -.695900+01$
     46               26  -.218000+01   .692946-07  -.695900+01$
     47               27  -.173939+01  -.126374+01  -.695900+01$
     48               28  -.686018+00  -.211135+01  -.695900+01$
     49               29   .686018+00  -.211135+01  -.695900+01$
     50               30   .149668+01  -.108740+01  -.695900+01$
     51               31   .250000+01   .000000     -.570900+01$
     52               32   .173939+01   .126374+01  -.570900+01$
     53               33   .695288+00   .213988+01  -.570900+01$
     54               34  -.655116+00   .201624+01  -.570900+01$
     55               35  -.173939+01   .126374+01  -.570900+01$
     56               36  -.211000+01   .670695-07  -.570900+01$
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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$

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114	98	.405000+01	.000000	-.690000+01$
115	95	.404869+01	.579819+00	-.690000+01$
116	96	.389147+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	.329941+01	-.579994+00	-.838000+01$
121	101	.349610+01	-.114878+01	-.796000+01$
122	102	.389147+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	.234747+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	.234747+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$

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+01$
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 $

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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$	

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$

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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$
380	356	.465800+00	.761577+01	.236000+01$
381	357	-.198244+00	.709723+01	.205000+01$
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$

399	375	.255411+01	.492738+01	.405000+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$
442	418	.884632+01	-.305813+01	.160000+01$
443	419	.885269+01	-.350146+01	.000000 $
444	420	.884632+01	-.305813+01	.000000 $
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$
449	425	.945000+01	.000000	.330000+01$
450	426	.945035+01	-.163066+01	.288000+01$
451	427	.944974+01	-.284945+01	.165000+01$
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$
457		433	.106486+02	-.161235+01	.279000+01$
458		434	.106452+02	-.281060+01	.161000+01$
459		435	.106522+02	-.322622+01	.000000 $
460	NREF= 6				
461		436	.407838+01	-.190178+01	.612000+01$
462		437	.407838+01	-.190178+01	.457000+01$
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$
472		447	.279517+01	-.352662+01	.612000+01$
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$
498		473	.369772+01	-.675403+01	.172000+01$
499		474	.198466+01	-.629453+01	.176000+01$
500		475	.248722+00	-.527414+01	.290000+01$
501		476	-.548412+00	-.446646+01	.335000+01$
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$
509		484	-.198244+00	-.709723+01	.205000+01$
510		485	-.149597+01	-.558305+01	.225000+01$
511		486	-.194403+01	-.469331+01	.300000+01$
512		487	-.228392+01	-.387733+01	.335000+01$

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$
551	526	-.440490+01	.920232+00	.411000+01$
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$
562	537	-.319241+01	.600404+01	.340000+01$
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$

570	545	-.228392+01	.387733+01	.457000+01$
571	546	-.194403+01	.469331+01	.425000+01$
572	547	-.897666+00	.638723+01	.368000+01$
573	548	.535032+00	.765132+01	.307000+01$
574	549	.465800+00	.761577+01	.236000+01$
575	550	-.198244+00	.709723+01	.205000+01$
576	551	-.149597+01	.558305+01	.225000+01$
577	552	-.194403+01	.469331+01	.300000+01$
578	553	-.228392+01	.387733+01	.335000+01$
579	554	-.228392+01	.387733+01	.270000+01$
580	555	-.548412+00	.446646+01	.612000+01$
581	556	-.548412+00	.446646+01	.457000+01$
582	557	.248722+00	.527414+01	.420000+01$
583	558	.392500+01	.679830+01	.345000+01$
584	559	.471816+01	.686497+01	.282000+01$
585	560	.464130+01	.688101+01	.200000+01$
586	561	.369772+01	.675403+01	.172000+01$
587	562	.198466+01	.629453+01	.176000+01$
588	563	.248722+00	.527414+01	.290000+01$
589	564	-.548412+00	.446646+01	.335000+01$
590	565	-.548412+00	.446646+01	.270000+01$
591	566	.118743+01	.434051+01	.612000+01$
592	567	.118743+01	.434051+01	.457000+01$
593	568	.255411+01	.492738+01	.405000+01$
594	569	.581510+01	.553764+01	.337000+01$
595	570	.660684+01	.558321+01	.270000+01$
596	571	.655895+01	.556239+01	.183000+01$
597	572	.555079+01	.555079+01	.138000+01$
598	573	.446197+01	.539359+01	.148000+01$
599	574	.255411+01	.492738+01	.265000+01$
600	575	.118743+01	.434051+01	.335000+01$
601	576	.118743+01	.434051+01	.270000+01$
602	577	.279517+01	.352662+01	.612000+01$
603	578	.279517+01	.352662+01	.457000+01$
604	579	.492690+01	.342428+01	.390000+01$
605	580	.798309+01	.365495+01	.315000+01$
606	581	.758867+01	.355479+01	.780000+00$
607	582	.668472+01	.350956+01	.105000+01$
608	583	.492690+01	.342428+01	.225000+01$
609	584	.279517+01	.352662+01	.335000+01$
610	585	.279517+01	.352662+01	.270000+01$
611	586	.407838+01	.190178+01	.612000+01$
612	587	.407838+01	.190178+01	.457000+01$
613	588	.676859+01	.134022+01	.370000+01$
614	589	.811670+01	.313197+01	.330000+01$
615	590	.856892+01	.361437+01	.230000+01$
616	591	.850880+01	.357677+01	.128000+01$
617	592	.801376+01	.298029+01	.600000+00$
618	593	.740172+01	.212241+01	.700000+00$
619	594	.676859+01	.134022+01	.150000+01$
620	595	.407838+01	.190178+01	.335000+01$
621	596	.407838+01	.190178+01	.270000+01$
622	597	.450000+01	.000000	.612000+01$
623	598	.450000+01	.000000	.457000+01$
624	599	.813000+01	.000000	.344000+01$
625	600	.813000+01	.000000	.460000+00$
626	601	.450000+01	.000000	.335000+01$

ORIGINAL PAGE IS
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```
602    .450000+01    .000000       .270000+01$
603    .885000+01    .000000       .330000+01$
604    .885278+01    .178021+01    .303000+01$
605    .884632+01    .305813+01    .160000+01$
606    .885278+01   -.178021+01    .303000+01$
607    .884632+01   -.305813+01    .160000+01$
608    .944974+01    .284945+01    .165000+01$
609    .945035+01    .163066+01    .288000+01$
610    .945000+01    .000000       .330000+01$
611    .945035+01   -.163066+01    .288000+01$
612    .944974+01   -.284945+01    .165000+01$
613    .106501+02    .279202+01    .161000+01$
614    .106486+02    .161235+01    .279000+01$
615    .106500+02    .000000       .323000+01$
616    .106486+02   -.161235+01    .279000+01$
617    .106452+02   -.281060+01    .161000+01$
FORMAT= 2
NREF= 6
618 1.65    0. -9.2   1.65     337.5 -9.2   16 1
634 3.65    0. -7.55  3.65     337.5 -7.55  16 1
650 2.2     0. -6.1   2.2      337.5 -6.1   16 1
666 1.15    0. -4.9   1.15     337.5 -4.9   16 1
682 1.5     0. 5.5    1.5      337.5 5.5    16 1
698 3.0     0. 6.4    3.0      337.5 6.4    16 1
714 1.55    0. 9.8    1.55     337.5 9.8    16 1
730 3.5     0. 9.8    3.5      337.5 9.8    16 1
746 6.      0. 6.65   6.       337.5 6.65   16 1
762 7.4625  0. 6.4    7.4625   337.5 6.4    16 1
778 7.4625  0. 6.9    7.4625   330.  6.9    12 1
790 6.      0. 10.3   6.       337.5 10.3   16 1
806 2.7     0. 12.1   2.7      337.5 12.1   16 1
822 5.8     0. 12.1   5.8      337.5 12.1   16 1
838 6.0     0. 18.0   6.0      337.5 18.0   16 1
854 4.3     0. 20.2   4.3      337.5 20.2   16 1
870 3.8     0. 18.6   3.8      337.5 18.6   16 1
886 5.5     0. 14.9   5.5      337.5 14.9   16 1
902 4.7     0. 13.9   4.7      337.5 13.9   16 1
918 4.      0. 15.3   4.       337.5 15.3   16 1
934 1.2     0. 14.6   1.2      337.5 14.6   16 1
950 2.2     0. 17.6   2.2      337.5 17.6   16 1
966 0.      0. 18.9
967 0.      0. 14.35
968 0.      0. 12.9
969 4.9     0. 12.9   4.9      337.5 12.9   16 1
985 2.1     0. 12.9   2.1      337.5 12.9   16 1
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1017 1.1    0. 10.85  1.1      337.5 10.85  16 1
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1034 0.     0. 5.5
1035 3.     0. 0.     3.       337.5 0.     16 1
1051 0.     0. 0.
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1068 0.     0. -4.9
1069 0.     0. -8.8
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     608:   609:   610:   611:   612$
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NREF= -6
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2  30.+6  .3  .325961
3  29.6+6 .3  .325961
4  29.6+6 .3  .325961
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714,729:806,821:968:1001,1016:969,984:1051
ZERO 2
1001:969
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    .32200+00   .86000-01
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    .10710+01   .19126+00
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    .18495+01   .57019+00
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  TUBE  6  .5  1.08
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1016    59  .1
1017  JSEQ
1018  618/681,1069,1067/1052,1/617,682/761,789/762,790/1051,1068
1019  *(ELD)
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1074  1068  1051
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1076  1034  1033
1077  E43
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1112   650  666  667  651  2  16
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1115  635 636 254 243
1116  636 637 263 254
1117  637 638 274 263
1118  638 639 285 274
1119  639 640 296 285
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
1125  645 646 362 351
1126  646 647 373 362
1127  647 648 384 373
1128  648 649 393 384
1129  649 634 404 393
1130  NSECT= 58
1131  404 243 651 650
1132  243 254 652 651
1133  254 263 653 652
1134  263 274 654 653
1135  274 285 655 654
1136  285 296 656 655
1137  296 307 657 656
1138  307 318 658 657
1139  318 329 659 658
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1140      329 340 660 659
1141      340 351 661 660
1142      351 362 662 661
1143      362 373 663 662
1144      373 384 664 663
1145      384 393 665 664
1146      393 404 650 665
1147      GROUP 3* FLANGE/HOUSING
1148      NMAT= 4
1149      NSECT= 56
1150      762 763 779 778
1151      765 766 781 780
1152      766 767 782 781
1153      769 770 784 783
1154      770 771 785 784
1155      773 774 787 786
1156      774 775 788 787
1157      777 762 778 789
1158      NSECT= 57
1159       762  746  747  763  2  16
1160      NSECT= 58
1161       746  730  731  747  2  16
1162      NSECT= 55
1163       698 730  731  699  2  16
1164      NSECT= 50
1165       682  698  699  683  2  16
1166      NSECT= 56
1167       730  714  715  731  2  16
1168      NSECT= 58
1169        746  790  791  747  2  16
1170      NSECT= 56
1171      597 586 747 746
1172      586 577 748 747
1173      577 566 749 748
1174      566 555 750 749
1175      555 544 751 750
1176      544 533 752 751
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
1190      577 566 733 732
1191      566 555 734 733
1192      555 544 735 734
1193      544 533 736 735
1194      533 522 737 736
1195      522 511 738 737
1196      511 500 739 738
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1198    489 478 741 740
1199    478 467 742 741
1200    467 456 743 742
1201    456 447 744 743
1202    447 436 745 744
1203    436 597 730 745
1204    NSECT= 55
1205    597 586 699 698
1206    586 577 700 699
1207    577 566 701 700
1208    566 555 702 701
1209    555 544 703 702
1210    544 533 704 703
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
1228     918  934  935  919  2  16
1229    NSECT= 54
1230     918  950  951  919  2  16
1231    NSECT= 54
1232     934  950  951  935  2  16
1233    NSECT= 13
1234    918  950  870  886
1235    919  951  871  887
1236    920  952  872  888
1237    921  953  873  889
1238    922  954  874  890
1239    923  955  875  891
1240    924  956  876  892
1241    925  957  877  893
1242    926  958  878  894
1243    927  959  879  895
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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OF POOR QUALITY

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1254      NSECT= 54
1255       1017  985  986  1018  2  16
1256      NSECT= 58
1257       1001  1017  1018  1002  2  16
1258      GROUP 6 ' TURBINE HOUSING
1259      NMAT= 4
1260      NSECT= 5
1261       790  838  839  791  2  16
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
1270       822  806  807  823  2  16
1271      E33
1272      GROUP 1 ' PUMP HOUSING
1273      NMAT=    2: NSECT=    8:NNSW=    0:    1    2   12
1274      NMAT=    2: NSECT=    9:NNSW=    0:    2    3   13
1275      NMAT=    2: NSECT=    9:NNSW=    0:    3    4   14
1276      NMAT=    2: NSECT=    9:NNSW=    0:    4    5   15
1277      NMAT=    2: NSECT=    9:NNSW=    0:    5    6   16
1278      NMAT=    2: NSECT=    9:NNSW=    0:    6    7   17
1279      NMAT=    2: NSECT=    9:NNSW=    0:    7    8   18
1280      NMAT=    2: NSECT=    9:NNSW=    0:    8    9   19
1281      NMAT=    2: NSECT=    9:NNSW=    0:    9   10   20
1282      NMAT=    2: NSECT=    8:NNSW=    0:   10    1   11
1283      NMAT=    2: NSECT=    8:NNSW=    0:   12   11    1
1284      NMAT=    2: NSECT=    9:NNSW=    0:   13   12    2
1285      NMAT=    2: NSECT=    9:NNSW=    0:   14   13    3
1286      NMAT=    2: NSECT=    9:NNSW=    0:   15   14    4
1287      NMAT=    2: NSECT=    9:NNSW=    0:   16   15    5
1288      NMAT=    2: NSECT=    9:NNSW=    0:   17   16    6
1289      NMAT=    2: NSECT=    9:NNSW=    0:   18   17    7
1290      NMAT=    2: NSECT=    9:NNSW=    0:   19   18    8
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1294      NMAT=    2: NSECT=   11:NNSW=    0:   12   13   23
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1297      NMAT=    2: NSECT=   11:NNSW=    0:   15   16   26
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1307      NMAT=    2: NSECT=   11:NNSW=    0:   26   25   15
1308      NMAT=    2: NSECT=   11:NNSW=    0:   27   26   16
1309      NMAT=    2: NSECT=   11:NNSW=    0:   28   27   17
1310      NMAT=    2: NSECT=   11:NNSW=    0:   29   28   18
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1315	NMAT=	2: NSECT=	12:NNSW=	0:	24	25	35
1316	NMAT=	2: NSECT=	12:NNSW=	0:	25	26	36
1317	NMAT=	2: NSECT=	12:NNSW=	0:	26	27	37
1318	NMAT=	2: NSECT=	12:NNSW=	0:	27	28	38
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1323	NMAT=	2: NSECT=	12:NNSW=	0:	35	34	24
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1330	NMAT=	2: NSECT=	12:NNSW=	0:	32	33	43
1331	NMAT=	2: NSECT=	14:NNSW=	0:	33	34	44
1332	NMAT=	2: NSECT=	14:NNSW=	0:	34	35	45
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1424	NMAT=	2: NSECT=	18:NNSW=	0:	104	134	31

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1448	NMAT=	2: NSECT=	21:NNSW=	0:	78	79	89
1449	NMAT=	2: NSECT=	21:NNSW=	0:	79	80	90
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1468	NMAT=	2: NSECT=	22:NNSW=	0:	88	89	99
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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
1475	NMAT=	2: NSECT=	22:NNSW=	0:	96	95	85
1476	NMAT=	2: NSECT=	22:NNSW=	0:	97	96	86
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1744	NMAT=	2: NSECT=	49:NNSW=	0:	194	185	253
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1992	NMAT=	2: NSECT=	51:NNSW=	0:	360	359	371
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1996	NMAT=	2: NSECT=	51:NNSW=	0:	365	364	375
1997	NMAT=	2: NSECT=	51:NNSW=	0:	366	365	376
1998	NMAT=	2: NSECT=	51:NNSW=	0:	377	378	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
2006	NMAT=	2: NSECT=	51:NNSW=	0:	365	375	376
2007	NMAT=	2: NSECT=	51:NNSW=	0:	366	376	377
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
2011	NMAT=	2: NSECT=	51:NNSW=	0:	370	369	381
2012	NMAT=	2: NSECT=	51:NNSW=	0:	371	370	382
2013	NMAT=	1: NSECT=	52:NNSW=	0:	372	371	383
2014	NMAT=	2: NSECT=	50:NNSW=	0:	384	385	373
2015	NMAT=	2: NSECT=	51:NNSW=	0:	375	374	385
2016	NMAT=	2: NSECT=	51:NNSW=	0:	376	375	386
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
2023	NMAT=	1: NSECT=	52:NNSW=	0:	391	392	382
2024	NMAT=	2: NSECT=	50:NNSW=	0:	374	373	385
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
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2034	NMAT=	2: NSECT=	50:NNSW=	0:	393	394	384
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2037	NMAT=	2: NSECT=	51:NNSW=	0:	396	397	387
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
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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

2052	NMAT=	2:	NSECT=	51:NNSW=	0:	401	402	407
2053	NMAT=	1:	NSECT=	52:NNSW=	0:	402	403	408
2054	NMAT=	2:	NSECT=	50:NNSW=	0:	405	404	394
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
2059	NMAT=	2:	NSECT=	51:NNSW=	0:	245	244	405
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2061	NMAT=	1:	NSECT=	52:NNSW=	0:	253	252	408
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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2069	NMAT=	2:	NSECT=	51:NNSW=	0:	396	397	411
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2072	NMAT=	2:	NSECT=	51:NNSW=	0:	413	412	398
2073	NMAT=	2:	NSECT=	51:NNSW=	0:	398	399	413
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2076	NMAT=	2:	NSECT=	51:NNSW=	0:	415	414	400
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2078	NMAT=	2:	NSECT=	51:NNSW=	0:	416	415	401
2079	NMAT=	2:	NSECT=	51:NNSW=	0:	407	416	401
2080	NMAT=	2:	NSECT=	51:NNSW=	0:	410	417	406
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2097	NMAT=	2:	NSECT=	53:NNSW=	0:	425	432	426
2098	NMAT=	2:	NSECT=	53:NNSW=	0:	426	433	427
2099	NMAT=	2:	NSECT=	53:NNSW=	0:	427	434	428
2100	NMAT=	2:	NSECT=	53:NNSW=	0:	430	423	429
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2104	NMAT=	2:	NSECT=	53:NNSW=	0:	434	427	433
2105	NMAT=	2:	NSECT=	53:NNSW=	0:	435	428	434
2106	NMAT=	2:	NSECT=	53:NNSW=	0:	423	412	422
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2108	NMAT=	2:	NSECT=	53:NNSW=	0:	425	410	424

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2111	NMAT=	2: NSECT=	53:NNSW=	0:	428	419	427
2112	NMAT=	2: NSECT=	53:NNSW=	0:	413	422	412
2113	NMAT=	2: NSECT=	53:NNSW=	0:	412	423	411
2114	NMAT=	2: NSECT=	53:NNSW=	0:	411	424	410
2115	NMAT=	2: NSECT=	53:NNSW=	0:	410	425	417
2116	NMAT=	2: NSECT=	53:NNSW=	0:	417	426	418
2117	NMAT=	2: NSECT=	53:NNSW=	0:	418	427	419
2118	NMAT=	2: NSECT=	54:NNSW=	0:	436	437	447
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2141	NMAT=	2: NSECT=	51:NNSW=	0:	452	453	463
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2152	NMAT=	2: NSECT=	51:NNSW=	0:	465	464	454
2153	NMAT=	1: NSECT=	52:NNSW=	0:	466	465	455
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2155	NMAT=	2: NSECT=	51:NNSW=	0:	457	469	458
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2157	NMAT=	2: NSECT=	51:NNSW=	0:	459	471	460
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2159	NMAT=	2: NSECT=	51:NNSW=	0:	461	462	472
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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
2165	NMAT=	2: NSECT=	51:NNSW=	0:	468	469	457

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2167	NMAT=	2: NSECT=	51:NNSW=	0:	470	471	459
2168	NMAT=	2: NSECT=	51:NNSW=	0:	472	471	461
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
2180	NMAT=	2: NSECT=	51:NNSW=	0:	473	474	484
2181	NMAT=	2: NSECT=	51:NNSW=	0:	474	475	485
2182	NMAT=	2: NSECT=	51:NNSW=	0:	475	476	486
2183	NMAT=	1: NSECT=	52:NNSW=	0:	476	477	487
2184	NMAT=	2: NSECT=	54:NNSW=	0:	479	478	468
2185	NMAT=	2: NSECT=	51:NNSW=	0:	479	480	468
2186	NMAT=	2: NSECT=	51:NNSW=	0:	480	481	469
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2190	NMAT=	2: NSECT=	51:NNSW=	0:	485	489	474
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2195	NMAT=	2: NSECT=	51:NNSW=	0:	491	480	479
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2200	NMAT=	2: NSECT=	51:NNSW=	0:	484	485	495
2201	NMAT=	2: NSECT=	51:NNSW=	0:	485	486	496
2202	NMAT=	2: NSECT=	51:NNSW=	0:	486	487	497
2203	NMAT=	1: NSECT=	52:NNSW=	0:	487	488	498
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
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2208	NMAT=	2: NSECT=	51:NNSW=	0:	494	493	483
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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
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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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2227	NMAT=	2:	NSECT=	51:	NNSW=	0:	504	503	493
2228	NMAT=	2:	NSECT=	51:	NNSW=	0:	505	504	494
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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
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2244	NMAT=	2:	NSECT=	54:	NNSW=	0:	512	511	501
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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
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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	517	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
2278	NMAT=	2:	NSECT=	51:	NNSW=	0:	537	538	526
2279	NMAT=	2:	NSECT=	51:	NNSW=	0:	538	539	527

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
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2304	NMAT=	2: NSECT=	54:NNSW=	0:	534	533	545
2305	NMAT=	2: NSECT=	51:NNSW=	0:	535	545	546
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2307	NMAT=	2: NSECT=	51:NNSW=	0:	537	547	548
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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
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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	555
2335	NMAT=	2: NSECT=	51:NNSW=	0:	557	556	567
2336	NMAT=	2: NSECT=	51:NNSW=	0:	558	557	568

2337	NMAT=	2: NSECT=	51:NNSW=	0:	559	558	569
2338	NMAT=	2: NSECT=	51:NNSW=	0:	570	571	559
2339	NMAT=	2: NSECT=	51:NNSW=	0:	571	572	560
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
2357	NMAT=	2: NSECT=	51:NNSW=	0:	570	569	580
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	578	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
2386	NMAT=	2: NSECT=	51:NNSW=	0:	582	581	593
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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2394	NMAT=	2: NSECT=	54:NNSW=	0:	598	597	587
2395	NMAT=	2: NSECT=	51:NNSW=	0:	599	598	588
2396	NMAT=	2: NSECT=	51:NNSW=	0:	601	600	595
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
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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
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2428	NMAT=	2: NSECT=	51:NNSW=	0:	413	414	442
2429	NMAT=	2: NSECT=	51:NNSW=	0:	443	442	414
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2431	NMAT=	2: NSECT=	51:NNSW=	0:	444	443	415
2432	NMAT=	2: NSECT=	51:NNSW=	0:	415	416	444
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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
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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
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2450	NMAT=	2: NSECT=	53:NNSW=	0:	612	607	611

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NMAT=       2: NSECT=      53:NNSW=       0:       419      428      605
NMAT=       2: NSECT=      53:NNSW=       0:       605      608      604
NMAT=       2: NSECT=      53:NNSW=       0:       604      609      603
NMAT=       2: NSECT=      53:NNSW=       0:       603      610      606
NMAT=       2: NSECT=      53:NNSW=       0:       606      611      607
NMAT=       2: NSECT=      53:NNSW=       0:       607      612      413
GROUP 2' AFT BEARING SUPPORT
NMAT= 3
NSECT= 58
1068 666 667 3 16
GROUP 3' FLANGE/HOUSING
NMAT= 4
NSECT= 56
779 763 764
764 780 779
780 764 765
782 767 768
768 783 782
783 768 769
785 771 772
772 786 785
786 772 773
788 775 776
776 789 788
789 776 777
NSECT= 56
1034 682 683 3 16
GROUP 4' TURBINE END
NMAT= 4
NSECT= 7
967 934 935 3 16
NSECT= 1
966 950 951 3 16
GROUP 5' ROTOR
NMAT= 4
NSECT= 19
968 985 986 3 16
NSECT= 55
1033 1017 1018 3 16
NMAT= 4
NSECT= 54
1034 1035 1036 3 16
1051 1035 1036 3 16
1068 1035 1036 3 16
1068 1052 1053 3 16
1069 1052 1053 3 16
*(BN)
511           $   PUMP HOUSE I/F FLG OM END
274           $   PUMP HOUSE I/F FLG PREBURNER END
318           $   PUMP HOUSE I/F FLG PREBURNER END
362           $   PUMP HOUSE I/F FLG PREBURNER END
404           $   PUMP HOUSE I/F FLG PREBURNER END
467           $   PUMP HOUSE I/F FLG OM END
555           $   PUMP HOUSE I/F FLG OM END
597           $   PUMP HOUSE I/F FLG OM END
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    *                       ENDHPOTP

@PRT,S HPFTP.ALL
```

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ME OLEYBIN202*HPFTP(1),ALL
      1      *(29 HPFTP DATA 1)                                    ENDHPFTP
      2      G=386.,HICORE=150000,SEG=0
      3      *(TAB)
      4      START 1641 $  HPFTP
      5      TITLE' HPFTP
      6      MATC
      7                1        30.1*6   .31      .295
      8                2        16.0*6   .3       .163
      9           3          10.4*6   .33       .098
     10      ALTREF
     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     6.6       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
```

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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 CIW 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 : 578/529 : 650/673 : 626/649
131      698/721 : 794/889 : 674/697 : 722/793 : 890/1457
132      *(ELO)
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
```

```
      328 329 351
      329 330 352
      330 331 352
      331 332 353
      332 333 353
      333 334 354
      334 335 354
      335 336 355
      336 337 355
      337 338 356
      338 339 356
      339 340 357
      340 341 357
      341 342 358
      342 343 358
      343 344 359
      344 345 359
      345 346 360
      346 347 360
      347 348 361
      348 349 361
      349 326 350
      351 350 327
      352 351 329
      353 352 331
      354 353 333
      355 354 335
      356 355 337
      357 356 339
      358 357 341
      359 358 343
      360 359 345
      361 360 347
      350 361 349
      GROUP 3 : EXIT VOLUTE
      NSECT= 6
      530 554 578
      532 556 580
      534 558 582
      536 560 584
      538 562 586
      540 564 588
      542 566 590
      544 568 592
      546 570 594
      548 572 596
      550 574 598
      552 576 600
      GROUP 4 : HOUSING
      NMAT= 2
      NSECT= 1
      914 938 939
      GROUP 5 : INLET VOLUTE
      NMAT= 2
      NSECT= 1
      1034 1058 1059
      GROUP 6 : AFT BEARING HOUSING
```

```
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     679 626 698
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
```

```
NMAT= 1
NSECT= 13
14 38 39 15 2 24 1
NSECT= 10
14 62 63 15 2 24 1
NSECT= 7
14 134 135 15 2 24 1
NSECT= 7
62 86 87 63 2 24 1
NSECT= 9
86 110 111 87 2 24 1
NSECT= 9
110 134 135 111 2 24 1
NSECT=10
110 134 158 182
112 136 160 184
114 138 162 186
116 140 164 188
118 142 166 190
120 144 168 192
122 146 170 194
124 148 172 196
126 150 174 198
128 152 176 200
130 154 178 202
132 156 180 204
GROUP 2: ATTACH FLANGE
NSECT= 13
158 182 183 159 2 24 1
182 206 207 183 2 24 1
NSECT= 8
206 230 231 207 2 24 1
230 254 255 231 2 24 1
230 206 278 302 1 1 1 12 2
NSECT=13
278 302 303 279 2 24 1
278 326 327 279 2 24 1
326 302 303 327 2 24 1
NSECT= 7
302 362 363 303 2 24 1
GROUP 3: EXIT VOLUTE
NSECT= 6
362 386 387 363 2 24 1
386 410 411 387 2 24 1
410 434 435 411 2 24 1
434 458 459 435 2 24 1
458 482 483 459 2 24 1
482 506 507 483 2 24 1
NSECT= 9
506 626 627 507 2 24 1
NSECT= 5
506 530 531 507 2 24 1
NSECT= 7
530 362 363 531 2 24 1
NSECT= 6
578 530 531 579 2 24 1
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
```

```
      1000 1024 1264 1288
      1002 1026 1266 1290
      1004 1028 1268 1292
      1006 1030 1270 1294
      1008 1032 1272 1296
      NSECT= 4
      1279 1250 1251 1275 2 24 1
      1250 1298 1299 1251 2 24 1
      NSECT= 12
      1298 1322 1323 1299 2 24 1
      1322 1394 1395 1323 2 24 1
      NSECT= 7
      1394 1418 1419 1395 2 24 1
      NSECT= 7
      1322 1346 1347 1323 2 24 1
      1346 1370 1371 1347 2 24 1
      GROUP 7 ' INTERNAL STATORS
      NMAT= 3
      NSECT= 4
      722 890 891 723 2 24 1
      NSECT= 5
      722 770 771 723 2 24 1
      674 770 771 675 2 24 1
      626 698 699 627 2 24 1
      626 674 675 627 2 24 1
      NSECT= 2
      674 698 699 675 2 24 1
      674 722 723 675 2 24 1
      722 698 699 723 2 24 1
      NSECT= 5
      770 746 747 771 2 24 1
      746 674 675 747 2 24 1
      674 650 651 675 2 24 1
      650 626 627 651 2 24 1
      GROUP 8 ' ROTOR AFT
      1618 1630 1631 1619 2 12 1
      GROUP 9 ' ROTOR END
      NSECT= 12
      1534 1546 1547 1535 2 12 1
      1546 1558 1559 1547 2 12 1
      NSECT= 10
      1558 1570 1571 1559 2 12 1
      1558 1582 1583 1559 2 12 1
      1582 1594 1595 1583 2 12 1
      NSECT= 9
      1582 1606 1607 1583 2 12 1
      NSECT= 9
      1606 1618 1619 1607 2 12 1
      NSECT= 4
      1618 1630 1631 1619 2 12 1
      *(BN)
      350,361    $   *BOUNDRY* FLANGE NODES @ HGM
      1454       $   AFT END NODE
      1456       $   AFT BEARING
      1457       $   INTERMEDIATE BEARING
      1483       $   INTERMEDIATE ROTOR
      1533       $   ON ROTOR
```

```
    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

@PRI,S NOZZLE,NOZ1
```

```
MFOLEYBIN202,NOZZLE(1),NOZ1
      1     *(29 NOZ1 DATA 1)                                    ENDNOZ1
      2     G=386.4,MNAME=CCM,HICORE=150000
      3     *(TAB)
      4     START 198
      5     TITLE* SSME NOZZLE - MACRO ELEMENT 1  (NOZ1)
      6     MAIC
      7     1 29.6+06 .3 .297 6.0-06
      8     NSW
      9     1  .05
     10     2  .0186  AFT MANIFOLD
     11     3  .005866  NOSY SKIN
     12     4  .000918  AFT RAY SKIN
     13     JOINT LOCATIONS $ *****   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.  -106.485   43.976  340.  -106.485   18   $ ROW  7
     29     127 43.495   0.  -102.965   43.495  340.  -102.965   18   $ ROW  8
     30     145 43.056   0.  -99.963   43.056  340.  -99.963   18   $ ROW  9
     31     163 42.590   0.  -96.961   42.590  340.  -96.961   18   $ ROW 10
      2     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
```

```
      TUBE  2  .686  .766
      TUBE  3  .716  .766
      TUBE  4  .716  .766
      TUBE  5  .686  .860
      GIVN  6  .03686  1.  .03686  1.  .1328  .07372
      GIVN  7  .02390  1.  .02390  1.  .1237  .04780
      GIVN  8  .05753  1.  .05753  1.  .1877  .1151
      TUBE  9  .7438  .8202$  DUMMY
      TUBE  10  .7438  .8202$  DUMMY
      GIVN  11  .1041  1.  .0752  1.  .1143  .1893
      GIVN  12  .1912  1.  .1135  1.  .1609  .3047
      GIVN  13  .2588  1.  .1444  1.  .1859  .4032
      GIVN  14  .3326  1.  .1807  1.  .2227  .5133
      GIVN  15  .3646  1.  .1994  1.  .2467  .5640
      GIVN  16  .5892  1.  .3215  1.  .3736  .9628
      GIVN  17  .4420  1.  .2433  1.  .2836  .6853
      GIVN  18  .5083  1.  .2900  1.  .3356  .7993
      GIVN  19  .5364  1.  .3095  1.  .3528  .8459
      GIVN  20  .7836  1.  .4725  1.  .6770  3.611  0.  -.0720  .072  0.
      SHELL SECTION PROP
      FORM  UNCOUPLED
      1  15.07  9.66  15.05  0.  0.  0.  4.344*6  4.344*6  4.344*6
      1.991*6  .310*6  3.104*6  0.  0.  .310*6
      48.8  1125.  7449.  0.  0.  1312.
      2  62.76  20.88  40.07  0.  0.  0.  5.499*6  5.499*6  5.499*6
      .478*6  .088*6  1.437*6  0.  0.  .088*6
      69.2  1727.  11445.  0.  0.  2015.
      3  86.71  28.49  54.76  0.  0.  0.  4.848*6  4.848*6  4.848*6
      .346*6  .0606*6  1.053*6  0.  0.  .0606*6
      34.5  976.  6471.  0.  0.  1139.
      4  86.21  25.91  50.88  0.  0.  0.  5.967*6  5.967*6  5.967*6
      .348*6  .0869*6  1.158*6  0.  0.  .0869*6
      55.  1807.  11990.  0.  0.  2108.
      5  14.96  10.27  15.56  0.  0.  0.  6.822*6  6.822*6  6.822*6
      2.005*6  .327*6  2.920*6  0.  0.  .327*6
      78.1  2711.  17997.  0.  0.  3163.
      6  14.94  9.87  15.15  0.  0.  0.  7.641*6  7.641*6  7.641*6
      2.008*6  .333*6  3.038*6  0.  0.  .333*6
      108.2  3858.  25613.  0.  0.  4501.
      7  5882.  30.86  23308.  0.  0.  0.  7.641*6  7.641*6  7.641*6
      .0051*6  .0649*6  .972*6  0.  0.  .0649*6
      35.3  1108.  7353.  0.  0.  1293.
      WIII:.0288  .0138  .0098  .0106  .0261  .0271  .0135
      FORM ISOTROPIC
      8  .050
      9  .0457
      10  .1
      11  .060
      BB
      1  3125.:  0.  3125.  :  0.  0.  3125.
      0.  -1500.  0.  2350.
      1500.  0.  0.  0.  2350.
      0.  0.  0.  0.  0.  2350.
      $
      $  ************************************************************
      $  ***                                                      ***
      $  ***  N O Z Z L E  B O U N D R Y  C O N D I T I O N S  ***
```

```
$ ***                                                              ***
$ ****************************************************************
$
CONSTRAINT DEFINITION 1
$ ***  NONE = FREE STRUCTURE  ***
RMAS
CM ,00259,,00259
REPEAT 18 1: 1 0. 0. .1805
*(ELD)
$
$ ****************************************************************
$ ***                                                          ***
$ ***  N O Z 1  E L E M E N T  D E F I N I T I O N              ***
$ ***                                                          ***
$ ****************************************************************
$
E21
NREF=2
NNSW=2
NSECT=20 : NOFF=10 :    1    2    2   18    5  ROW  1
NNSW=0
NSECT=19 : NOFF=9  :  109  110    2   18    5  ROW  7
$
E43
GROUP 1* NOZ1 PLATE ELEMENTS
NSECT=7  :NNSW=4   :    1   19   20    2    2   18   5
NSECT=6  :NNSW=3   :  109  127  128  110    2   18   4
GROUP 2* NOZ1 OVERLAY
NSECT=10 :NNSW=0   :    1   19   20    2    2   18   1
NSECT=11 :NNSW=0   :   19   37   38   20    2   18   1
NSECT=11 :NNSW=0   :   73   91   92   74    2   18   1
NSECT=6  :NNSW=0   :   91  109  110   92    2   18   1
*(UN)
1,18
181,198
*                                          ENDNOZ1
```

```
@PRT,S NOZZLE.NOZ2
```

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```
MFOLEYBIN202*NOZZLE(1).NOZZ
*(29 NOZZ DATA 1)                          ENDNOZZ
G=386.4,MNAME=CEM,HICORE=150000
*(TAB)
START 162
TITLE' SSME NOZZLE - MACRO ELEMENT 2 (NOZZ)
MATC
1 29.6+06 .3 .297 6.0-06
NSW
1  .05
2  .018$  AFT MANIFOLD
3  .005865  MOST SKIN
4  .00097$  AFT BAY SKIN
JOINT LOCATIONS $ *****   NOZZLE MACRO ELEMENT 2    *****
FORMAT=2
$
$  *****************************************************************
$  ***                                                          ***
$  ***  C Y L I N D R I C A L   C O O R D I N A T E S           ***
$  ***                                                          ***
$  *****************************************************************
$
1    42.033  0.  -93.585     42.033  340.  -93.585   18   $  ROW 11
19   41.575  0.  -90.958     41.575  340.  -90.958   18   $  ROW 12
37   41.024  0.  -87.956     41.024  340.  -87.956   18   $  ROW 13
55   40.443  0.  -84.955     40.443  340.  -84.955   18   $  ROW 14
73   39.752  0.  -81.585     39.752  340.  -81.585   18   $  ROW 15
91   39.184  0.  -78.951     39.184  340.  -78.951   18   $  ROW 16
109  38.507  0.  -75.950     38.507  340.  -75.950   18   $  ROW 17
127  37.794  0.  -72.948     37.794  340.  -72.948   18   $  ROW 18
145  37.208  0.  -70.585     37.208  340.  -70.585   18   $  ROW 19
$
JREF
NREF=-1 : 1,162
MREF
FORM  2
1  2  0.  0.  -112.578
FORM  1
2  1  3  -1  1.
FORM  2
3  1  0.  0.  0.
BRL
1   -1  -.7417  0.  0.   -1  -.7417  0.  0.
2   -1  -.9362  0.  0.   -1  -.9362  0.  0.
3   -1  -1.091  0.  0.   -1  -1.091  0.  0.
4   -1  -1.169  0.  0.   -1  -1.169  0.  0.
5   -1  -1.169  0.  0.   -1  -1.169  0.  0.
6   -1  -1.245  0.  0.   -1  -1.245  0.  0.
7   -1  -1.427  0.  0.   -1  -1.427  0.  0.
8   -1  -1.562  0.  0.   -1  -1.562  0.  0.
9   -1  -1.610  0.  0.   -1  -1.610  0.  0.
10  -1  -.823   0.  -.1  -1  -.823   0.  -.1
11  -1  -.823   0.  -.1   1  0.  0.  0.
BA
TUBE  1  .686  .795
TUBE  2  .686  .766
TUBE  3  .716  .766
```

```
TUBE  4  .716  .766
TUBE  5  .686  .860
GIVN  6  .03686  1.  .03686  1.  .1328  .07372
GIVN  7  .02390  1.  .02390  1.  .1237  .04780
GIVN  8  .05753  1.  .05753  1.  .1877  .1151
TUBE  9  .7438  .82028  DUMMY
TUBE  10  .7438  .82028  DUMMY
GIVN  11  .1041  1.  .0752  1.  .1143  .1893
GIVN  12  .1912  1.  .1135  1.  .1609  .3047
GIVN  13  .2588  1.  .1444  1.  .1859  .4032
GIVN  14  .3326  1.  .1807  1.  .2227  .5133
GIVN  15  .3646  1.  .1994  1.  .2467  .5640
GIVN  16  .5892  1.  .3215  1.  .3736  .9628
GIVN  17  .4420  1.  .2433  1.  .2836  .6853
GIVN  18  .5083  1.  .2900  1.  .3356  .7993
GIVN  19  .5364  1.  .3095  1.  .3528  .8459
GIVN  20  .2836  1.  .4725  1.  .6770  3.611  0.  -.0720  .072  0.
SHELL SECTION PROP
FORM  UNCOUPLED
1  15.07  9.66  15.05  0.  0.  0.  4.344*6  4.344*6  4.344*6
1.991*6  .310*6  3.104*6  0.  0.  .310*6
48.8  1125.  7449.  0.  0.  1312.
2  62.76  20.88  40.07  0.  0.  0.  5.499*6  5.499*6  5.499*6
.478*6  .088*6  1.437*6  0.  0.  .088*6
69.2  1727.  11445.  0.  0.  2015.
3  86.71  28.49  54.76  0.  0.  0.  4.848*6  4.848*6  4.848*6
.346*6  .0606*6  1.053*6  0.  0.  .0606*6
34.5  976.  6471.  0.  0.  1139.
4  86.21  25.91  50.88  0.  0.  0.  5.967*6  5.967*6  5.967*6
.348*6  .0869*6  1.158*6  0.  0.  .0869*6
55.  1807.  11990.  0.  0.  2108.
5  14.96  10.27  15.56  0.  0.  0.  6.822*6  6.822*6  6.822*6
2.005*6  .327*6  2.920*6  0.  0.  .327*6
78.1  2711.  17997.  0.  0.  3163.
6  14.94  9.87  15.15  0.  0.  0.  7.641*6  7.641*6  7.641*6
2.008*6  .333*6  3.038*6  0.  0.  .333*6
106.2  3858.  25613.  0.  0.  4501.
7  5882.  30.86  23308.  0.  0.  0.  7.641*6  7.641*6  7.641*6
.0051*6  .0649*6  .972*6  0.  0.  .0649*6
35.3  1108.  7353.  0.  0.  1293.
W(I):.0288  .0138  .0098  .0106  .0261  .0271  .0135
FORM ISOTROPIC
8  .050
9  .0457
10  .1
11  .060
BB
1  3125.:  0.  3125.  :  0.  0.  3125.
0.  -1500.  0.  2350.
1500.  0.  0.  0.  2350.
0.  0.  0.  0.  0.  2350.
$
$  **********************************************************
$  ***                                                    ***
$  ***  N O Z Z  B O U N D R Y  C O N D I T I O N S        ***
$  ***                                                    ***
$  **********************************************************
```

```
$
CONSTRAINT DEFINITION 1
$   ***   NONE - FREE STRUCTURE   ***
*(ELD)
$
$   **********************************************************
$   ***                                                    ***
$   ***   N O Z 2   E L E M E N T   D E F I N I T I O N    ***
$   ***                                                    ***
$   **********************************************************
$
E21
NREF=2
NSECT=18 : NOFF=8  :    1    2    2   18   $ ROW  11
NSECT=17 : NOFF=7  :   73   74    2   18   $ ROW  15
$
E43
GROUP 1* NOZ2 PLATE ELEMENTS
NSECT=5  :NNSW=3   :    1   19   20    2    2   18    8
*(BN)
1,18
145,162
*                                                ENDNOZ2

aPRT,S NOZZLE.NOZ3
```

```
MF,OLEY,B1N2,D2,*NOZZLE(1).NOZ3
      1      *(29 NOZ3 DATA 1)                              ENDNOZ3
      2      G=386.4,MNAME=CEM,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   .0185  AFT MANIFOLD
     11      3   .00586$  MOST SKIN
     12      4   .00097$  AFT 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      $REF
     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
```

```
TUBE  4   .716   .766
TUBE  5   .686   .860
GIVN  6  .03686  1.  .03686  1.  .1328  .07372
GIVN  7  .02390  1.  .02390  1.  .1237  .04780
GIVN  8  .05753  1.  .05753  1.  .1877  .1151
TUBE  9   .7438   .8202$  DUMMY
TUBE  10  .7438   .8202$  DUMMY
GIVN  11 .1041 1. .0752 1. .1143 .1893
GIVN  12 .1912 1. .1135 1. .1609 .3047
GIVN  13 .2588 1. .1444 1. .1859 .4032
GIVN  14 .3326 1. .1807 1. .2227 .5133
GIVN  15 .3646 1. .1994 1. .2467 .5640
GIVN  16 .5892 1. .3215 1. .3736 .9628
GIVN  17 .4420 1. .2433 1. .2836 .6853
GIVN  18 .5083 1. .2900 1. .3356 .7993
GIVN  19 .5364 1. .3095 1. .3528 .8459
GIVN 20 .2836 1. .4725 1. .6770 3.611 0. -.0720 .072 0.
SHELL SECTION PROP
FORM  UNCOUPLED
1  15.07 9.66 15.05 0. 0. 0. 4.344+6 4.344+6 4.344+6
1.991+6 .310+6 3.104+6 0. 0. .310+6
48.8  1125.  7449.  0.  0.  1312.
2  62.76 20.88 40.07 0. 0. 0. 5.499+6 5.499+6 5.499+6
.478+6 .088+6 1.437+6 0. 0. .088+6
69.2  1727.  11445.  0.  0.  2015.
3  86.71 28.49 54.76 0. 0. 0. 4.848+6 4.848+6 4.848+6
.346+6 .0606+6 1.053+6 0. 0. .0606+6
34.5  976.  6471.  0.  0.  1139.
4  86.21 25.91 50.88 0. 0. 0. 5.967+6 5.967+6 5.967+6
.348+6 .0869+6 1.158+6 0. 0. .0869+6
55.  1807.  11990.  0.  0.  2108.
5  14.96 10.27 15.56 0. 0. 0. 6.822+6 6.822+6 6.822+6
2.005+6 .327+6 2.920+6 0. 0. .327+6
78.1  2711.  17997.  0.  0.  3163.
6  14.94 9.87 15.15 0. 0. 0. 7.641+6 7.641+6 7.641+6
2.008+6 .333+6 3.038+6 0. 0. .333+6
108.2  3858.  25613.  0.  0.  4501.
7  5882. 30.86 23308. 0. 0. 0. 7.641+6 7.641+6 7.641+6
.0051+6 .0649+6 .972+6 0. 0. .0649+6
35.3  1108.  7353.  0.  0.  1293.
W(I): .0288  .0138  .0098  .0106  .0261  .0271  .0135
FORM ISOTROPIC
8  .050
9  .0457
10  .1
11  .060
BB
1  3125.:  0.  3125.  :  0.  0.  3125.
0.  -1500.  0.  2350.
1500.  0.  0.  0.  2350.
0.  0.  0.  0.  0.  2350.
$
$  ************************************************************
$  ***                                                      ***
$  ***   N O Z 3   B O U N D R Y   C O N D I T I O N S      ***
$  ***                                                      ***
$  ************************************************************
```

```
$
CONSTRAINT DEFINITION 1
$   ***   NONE = FREE STRUCTURE   ***
*(ELD)
$
$   ***********************************************************
$   ***                                                     ***
$   ***   N O Z 3   E L E M E N T   D E F I N I T I O N     ***
$   ***                                                     ***
$   ***********************************************************
$
E21
NREF=7
NSECT=16 : NOFF=6  :    1    2    2   18   $ ROW  19
NSECT=15 : NOFF=5  :   73   74    2   18   $ ROW  23
$
E43
GROUP 1' NOZ3 PLATE ELEMENTS
NSECT=9  :NNSW=3   :    1   19   20    2    2   18   4
NSECT=3  :NNSW=3   :   73   91   92   74    2   18   4
GROUP 2' NOZ3 OVERLAY
NSECT=8  :NNSW=0   :    1   19   20    2    2   18   8
*(BN)
1,18
195,162
*                                        ENDNOZ3
```

```
@PRT,S NOZZLE.NOZ4
```

```
MFOLEYBIN202*NOZZLE(1),NOZ4
      1      *(29 NOZ4 DATA 1)                                    ENDNOZ4
      2      G=386.4,MNAME=CEM,HICORE=130000
      3      *(TAB)
      4      START 162
      5      TITLE' SSME NOZZLE - MACRO ELEMENT 4  (NOZ4)
      6      MATC
      7      1 29.6+06 .3 .297 6.0-06
      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      MREF
     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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```
TUBE  4  .716  .766
TUBE  5  .686  .860
GIVN  6 .03686  1.  .03686  1.  .1328  .07372
GIVN  7  .02390  1.  .02390  1.  .1237  .04780
GIVN  8  .05753  1.  .05753  1.  .1877  .1151
TUBE  9  .7438  .8202$ DUMMY
TUBE 10  .7438  .8202$ DUMMY
GIVN 11 .1041 1. .0752 1. .1143 .1893
GIVN 12 .1912 1. .1135 1. .1609 .4047
GIVN 13 .2588 1. .1444 1. .1859 .4032
GIVN 14 .3326 1. .1807 1. .2227 .5133
GIVN 15 .3646 1. .1994 1. .2467 .5640
GIVN 16 .5892 1. .3215 1. .3736 .9628
GIVN 17 .4420 1. .2433 1. .2836 .6853
GIVN 18 .5083 1. .2900 1. .3356 .7993
GIVN 19 .5364 1. .3095 1. .3528 .8459
GIVN 20 .2836 1. .4725 1. .6770 3.611 0. -.0720 .072 0.
SHELL SECTION PROP
FORM UNCOUPLED
1  15.07 9.66 15.05 0. 0. 0. 4.348+6 4.348+6 4.348+6
1.991+6 .310+6 3.104+6 0. 0. .310+6
48.8  1125.  7449.  0.  0.  1312.
2  62.76 20.88 40.07 0. 0. 0. 5.499+6 5.499+6 5.499+6
.478+6 .088+6 1.437+6 0. 0. .088+6
69.2  1727.  11445.  0.  0.  2015.
3  86.71 28.49 54.76 0. 0. 0. 4.848+6 4.848+6 4.848+6
.346+6 .0606+6 1.053+6 0. 0. .0606+6
34.5  976.  6471.  0.  0.  1139.
4  86.21 25.91 50.88 0. 0. 0. 5.967+6 5.967+6 5.967+6
.348+6 .0869+6 1.158+6 0. 0. .0869+6
55.  1807.  11990.  0.  0.  2108.
5  14.96 10.27 15.56 0. 0. 0. 6.822+6 6.822+6 6.822+6
2.005+6 .327+6 2.920+6 0. 0. .327+6
78.1  2711.  17997.  0.  0.  3163.
6  14.94 9.87 15.15 0. 0. 0. 7.641+6 7.641+6 7.641+6
2.008+6 .333+6 3.038+6 0. 0. .333+6
108.2  3858.  25613.  0.  0.  4501.
7  5882.  30.86 23308.  0.  0.  0. 7.641+6 7.641+6 7.641+6
.0051+6 .0649+6 .972+6 0. 0. .0649+6
35.3  1108.  7353.  0.  0.  1293.
M(1):.0288  .0138  .0098  .0106  .0261  .0271  .0135
FORM ISOTROPIC
8  .050
9  .0457
10  .1
11  .060
BB
1  3125.:  0.  3125.  :  0.  0.  3125.
0.  -1500.  0.  2350.
1500.  0.  0.  0.  2350.
0.  0.  0.  0.  0.  2350.
$
$  ************************************************************
$  ***                                                      ***
$  ***  N O Z Z A  B O U N D R Y  C O N D I T I O N S        ***
$  ***                                                      ***
$  ************************************************************
```

```
$
CONSTRAINT DEFINITION 1
$   ***  NONE - FREE STRUCTURE  ***
*(ELD)
$
$   ************************************************************
$   ***                                                      ***
$   ***   N O Z 4   E L E M E N T   D E F I N I T I O N      ***
$   ***                                                      ***
$   ************************************************************
$
E21
NREF=2
NSECT=14 : NOFF=4  :    1    2    2   18   $ ROW  27
NSECT=13 : NOFF=3  :   73   74    2   18   $ ROW  31
$
E43
GROUP 1: NOZ4 PLATE ELEMENTS
NSECT=1  :NNSW=3   :    1   19   20    2    2   18   4
NSECT=2  :NNSW=3   :   73   91   92   74    2   18   4
GROUP 2: NOZ4 OVERLAY
NSECT=8  :NNSW=0   :    1   19   20    2    2   18   4
NSECT=9  :NNSW=0   :   73   91   92   74    2   18   4
*(BN)
1,18
145,162
*                                        ENDNOZ4

aPRT,S NOZZLE.NOZ5
```

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```
MFOLEY8IN202*NOZZLE(1),NOZS
      1      *(29 NOZS DATA 1)                                    ENDNOZS
      2      G=386.4,MNAME=CEM,MICORE=130000
      3      *(TAB)
      4      START 126
      5      TITLE* SSME NOZZLE - MACRO ELEMENT 5  (NOZS)
      6      MATC
      7      1 29.6+06 .3 .297 6.0-06
      8      NSW
      9      1  .05
     10      2  .0185  AFT MANIFOLD
     11      3  .00586$  MOST SKIN
     12      4  .00097$  AFT BAY SKIN
     13      JOINT LOCATIONS $ *****   NOZZLE MACRO ELEMENT 5   *****
     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   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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```
GIVN  6  .03686  1.  .03686  1.  .1328  .07372
GIVN  7  .02390  1.  .02390  1.  .1237  .04780
GIVN  8  .05753  1.  .05753  1.  .1877  .1151
TUBE  9  .7438  .82025  DUMMY
TUBE  10  .7438  .82025  DUMMY
GIVN  11  .1041  1.  .0752  1.  .1143  .1893
GIVN  12  .1912  1.  .1135  1.  .1609  .3047
GIVN  13  .2588  1.  .1444  1.  .1859  .4032
GIVN  14  .3326  1.  .1807  1.  .2227  .5133
GIVN  15  .3646  1.  .1994  1.  .2467  .5640
GIVN  16  .5892  1.  .3215  1.  .3736  .9628
GIVN  17  .4420  1.  .2433  1.  .2836  .6853
GIVN  18  .5083  1.  .2900  1.  .3356  .7993
GIVN  19  .5364  1.  .3095  1.  .3528  .8459
GIVN  20  .2836  1.  .4725  1.  .6770  3.611  0.  -.0720  .072  0.
SHELL SECTION PROP
FORM  UNCOUPLED
1  15.07  9.66  15.05  0.  0.  0.  4.344+6  4.344+6  4.344+6
1.991+6  .310+6  3.104+6  0.  0.  .310+6
48.8  1125.  7449.  0.  0.  1312.
2  62.76  20.88  40.07  0.  0.  0.  5.499+6  5.499+6  5.499+6
.478+6  .088+6  1.437+6  0.  0.  .088+6
69.2  1727.  11445.  0.  0.  2015.
3  86.71  28.49  54.76  0.  0.  0.  4.848+6  4.848+6  4.848+6
.346+6  .0606+6  1.053+6  0.  0.  .0606+6
34.5  976.  6471.  0.  0.  1139.
4  86.21  25.91  50.88  0.  0.  0.  5.967+6  5.967+6  5.967+6
.348+6  .0869+6  1.158+6  0.  0.  .0869+6
55.  1807.  11990.  0.  0.  2108.
5  14.96  10.27  15.56  0.  0.  0.  6.822+6  6.822+6  6.822+6
2.005+6  .327+6  2.920+6  0.  0.  .327+6
78.1  2711.  17997.  0.  0.  3163.
6  14.94  9.87  15.15  0.  0.  0.  7.641+6  7.641+6  7.641+6
2.008+6  .333+6  3.038+6  0.  0.  .333+6
108.2  3858.  25613.  0.  0.  4501.
7  5862.  30.86  23308.  0.  0.  0.  7.641+6  7.641+6  7.641+6
.0051+6  .0649+6  .972+6  0.  0.  .0649+6
35.3  1108.  7353.  0.  0.  1293.
W(1):.0288  .0138  .0098  .0106  .0261  .0271  .0135
FORM ISOTROPIC
8  .050
9  .0457
10  .1
11  .060
BB
1  3125.:  0.  3125.  :  0.  0.  3125.
0.  -1500.  0.  2350.
1500.  0.  0.  0.  2350.
0.  0.  0.  0.  0.  2350.
$
$  ************************************************************
$  ***                                                      ***
$  ***  N O Z Z L E  B O U N D R Y  C O N D I T I O N S      ***
$  ***                                                      ***
$  ************************************************************
$
CONSTRAINT DEFINITION 1
```

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```
ZERO  1 2 3 4 5 6
109,126
RMAS
CM .00259,.00259
REPEAT 18 1 : 73 .533
*(ELO)
$
$    ***************************************************************
$    ***                                                         ***
$    ***   N O Z S   E L E M E N T   D E F I N I T I O N         ***
$    ***                                                         ***
$    ***************************************************************
$
E21
NREF=2
NSECT=12 : NOFF=2  :    1    2    2   18   $  ROW  35
NSECT=11 : NOFF=1  :   73   74    2   18   $  ROW  39
$
E41
GROUP 1' NOZS PLATE ELEMENTS
NSECT=2   :NNSW=3  :    1   19   20    2    2    18    4
NSECT=1   :NNSW=3  :   73   91   92   74    2    18    2
GROUP 2' NOZS OVERLAY
NSECT=9   :NNSW=0  :    1   19   20    2    2    18    4
*(BN)
1,18
109,126
*                                        ENDNOZS
```

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```
@DATA,L SSMO.
DATA 9R1 SL74T9 09/29/83 15:10:53 (1)
      @RUN,/R SSMST,SED84D430105,MFOLEYB1N202,30,5000/5000
      @ASG,A PF.
      @BRKPT PRINTS/PF
      @ASG,A KIFLINBIN196*EALPRS/LDRARR.
      @ASG,A MEPROC2.
      @DELETE,C SSM1.
      @ASG,UP SSM1.,F/5/POS/60
      @FREE SSM1.
      @EXTEND SSM1.8
      @ASG,A SSM1.
      @ASG,A SSM3.
      @ASG,A SSM4.
      @ASG,A SSM5.
      @ASG,A SSM6.
      @USE IPES.,KIFLINBIN196*EALPRS.
      @USE EAL028.,MEPROC2.
      @USE EAL001.,SSM1.
      @USE EAL003.,SSM3.
      @USE EAL004.,SSM4.
      @USE EAL005.,SSM5.
      @USE EAL006.,SSM6.
      @ASG,A SSMO.
      @DATA,DL SSMO.
      @END
      @XQT .U1
      *CM 150000
      *(SYS DATA) ENDSYS
      $ SSM HGM+MCC+NOZZLE+HPFTP+HPOTP
      G=386.,MICORE=150000,SEQ=0
      *(TAB)
      START 193
      ALTREF
      2 1 -45. 2 90. 3 0. -15.775    0.0         0.0         $ MCC/HGM
      3 1 -45. 2 80. 3 0. -17.942    -18.03123   -18.03123   $ HPFTP/HGM
      $SYS ALTREF(3)=HPFTP ALTREF(2)
      $SYS ALTREF(1)=HPFTP ALTREF(1)
      4 1 -45. 2 100. 3 0. -20.282   17.5009     17.5009     $ HPOTP/HGM
      5 1 -45. 2 90. 3 0. -42.997    0.          0.          $ MCC BASIC
      6 1 -45. 2 90. 3 0. -35.352    0.          0.          $ NOZ BASIC
      7 1 -135. 3 10. 2 90. -44.5131 20.522      20.522      $ HPOTP BASIC
      JLOC:FORMAT=2
      NREF=2
      1,10.9875,0.0,-5.7,10.9875,330.,-5.7,12,1 $ MCC/HGM INTERFACE
      37,0.,0.,15.775                           $ GIMBAL POINT
      NREF=3
      13,8.85,0.0,-3.74,8.85,330.,-3.74,12,1    $ HPFTP/HGM INTERFACE
      NREF=4
      25,7.4625,0.0,-7.63,7.4625,330.,-7.63,12,1$ HPOTP/HGM INTERFACE
      NREF=5
      38,13.0,0.0,-2.355,13.0 ,340.,-2.355,18,1$ MCC/NOZ5 IN MCC CORDSYS
      NREF=6
      56,21.583,0.,-27.125,21.583,340.,-27.125,18,1 $ NOZ5/NOZ4
      74,30.709   0.  -48.985   30.709  340.  -48.985  18 1 $NOZ4/3
      92,37.208   0.  -70.585   37.208  340.  -70.585  18 1 $NOZ3/2
      110,42.033  0.  -93.585   42.033  340.  -93.585  18 1 $NOZ2/1
```

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```
128,45.457  0.  -119.578  45.457  340.  -119.578 18 1 $NOZ1 BOTTOM
NREF=3
146   6.2   0.0     .35    6.2   270.0     .35   4   $   J=158,164,170,176 ON HPFT
150   8.6   0.0  -15.35    8.6   270.0  -15.35   4   $   J=698,704,710,716 ON HPFT
154   0.0   0.0  -31.80   $   J=1454 ON HPFTP
155   0.0   0.0  -29.50   $   J=1456 ON HPFTP
156   0.0   0.0  -24.90   $   J=1457 ON HPFTP
157   0.0   0.0  -16.20   $   J=1483 ON HPFTP
158   0.0   0.0   -7.65   $   J=1533 ON HPFTP
159   0.85  0.    -.9   0.85   330.   -.9   12   $   1618 THROUGH 1629 ON HPFTP
$
$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
$$$$$$$$$$$                                       $$$$$$$$$$$
$$$$$$$$$$$     HIGH PRESSURE OXYGEN TURBOPUMP    $$$$$$$$$$$
$$$$$$$$$$$                                       $$$$$$$$$$$
$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
$
FORMAT=1
NREF=1
$
171  -28.564 21.716 15.352  $  511 IN HPOTP , 2697 IN PLOT SYS
172  -?1.394 17.314 16.538  $  274 IN HPOTP , 2460 IN PLOT SYS
173  -40.618 23.218 16.854  $  318 IN HPOTP , 2504 IN PLOT SYS
174  -39.843 23.535 22.759  $  362 IN HPOTP , 2548 IN PLOT SYS
175  -40.618 16.854 23.218  $  409 IN HPOTP , 2590 IN PLOT SYS
176  -27.789 22.032 21.256  $  467 IN HPOTP , 2653 IN PLOT SYS
177  -29.340 15.811 15.035  $  555 IN HPOTP , 2741 IN PLOT SYS
178  -28.564 15.352 21.716  $  597 IN HPOTP , 2783 IN PLOT SYS
179  -24.940 15.607 20.557  $  730 IN HPOTP , 2916 IN PLOT SYS
180  -25.548 15.644 15.644  $  734 IN HPOTP , 2920 IN PLOT SYS
181  -24.940 20.557 15.607  $  738 IN HPOTP , 2924 IN PLOT SYS
182  -24.332 20.519 20.519  $  742 IN HPOTP , 2928 IN PLOT SYS
183  -14.698 13.764 19.845  $  854 IN HPOTP , 3040 IN PLOT SYS
184  -15.445 13.810 13.810  $  858 IN HPOTP , 3044 IN PLOT SYS
185  -14.698 19.845 13.764  $  862 IN HPOTP , 3048 IN PLOT SYS
186  -13.951 19.799 19.799  $  866 IN HPOTP , 3052 IN PLOT SYS
187  -19.524 14.578 20.235  $  918 IN HPOTP , 3104 IN PLOT SYS
188  -20.218 14.621 14.621  $  922 IN HPOTP , 3108 IN PLOT SYS
189  -19.524 20.235 14.578  $  926 IN HPOTP , 3112 IN PLOT SYS
190  -18.829 20.192 20.192  $  930 IN HPOTP , 3116 IN PLOT SYS
191  -23.906 17.953 17.953  $ 1033 IN HPOTP , 3219 IN PLOT SYS
192  -29.175 18.610 18.610  $ 1034 IN HPOTP , 3220 IN PLOT SYS
193  -39.417 19.887 19.887  $ 1068 IN HPOTP , 3254 IN PLOT SYS
$
JREF
NREF=-2:1,12:37  $
NREF=-3:13,24    $
NREF=-4:25,36    $
NREF=-5:38,55    $
NREF=-6:56,145   $
NREF=-3 : 146,153 : 159,170  $ FOR HPFTP
NREF= 3 : 154,158            $ FOR HPFTP
NREF=-7 : 171,190            $ FOR HPOTP CASE
NREF= 7 : 191,193            $ FOR HPOTP SHAFT
$
JSEQ
37,13/36,1/12,146/193,38/145
```

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```
113.    $
114.    CON=1
115.    *      ENDSYS
116.    *(10 SJC HGM 1)
117.    1:2:3:4:5:6:7:37
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.    *(10 SJC HPOTP 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.    *(10 SJC HCC 5)
128.    1:2:3:4:5:6:7:8:9:10:11:12
129.    38:39:40:41:42:43:44:45:46:47:48:49:50:51:52:53:54:55
130.    *(10 SJC HPFTP 1)
131.    13:14:15:16:17:18:19:20:21:22:23:24 $ 350 THROUGH 361 ON HPFTP,HGM INTERFACE
132.    154:155:156:157:158 $ 1454,1456,1457,1483,1533 ON HPFTP
133.    $ 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.    *(10 SJC NOZ5 6)
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.    *(10 SJC NOZ4 6)
141.    74:75:76:77:78:79:80:81:82:83:84:85:86:87:88:89:90:91
142.    56:57:58:59:60:61:62:63:64:65:66:67:68:69:70:71:72:73
143.    *(10 SJC NOZ3 6)
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.    *(10 SJC NOZ2 6)
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.    *(10 SJC NOZ1 6)
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

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```
@XQT DCU
 DCU  DATA SPACE=    20000          D/T= 831004 100349

 PRIN LIB/SEQ= 1/  43   VIBR   EVAL          2        1

 BLOCK    1  VIBR    EVAL          2         1

              I=     1     I=
  J=    1     .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/T= 831004 100555
```

VIBRATIONAL MODE IO= 2/ 1/ 1
EIGENVALUE= .552230+02, FREQ= 1.1827 HZ

JOINT	1	2	3	4	5	6
1	.3107088-01	.1948968+00	-.4330675-01	-.8791955-02	.4199428-02	.1086891-02
2	.2183973+00	.3280482+00	-.8541053-01	-.5513154-02	.8039997-02	.1087302-02
3	.3471436+00	.1765211+00	-.1038498+00	-.7545395-03	.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	-.2184530+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	.6338043-01	-.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	-.6494353-01	-.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	-.2500870+00	.1045871+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	.1823284+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	-.2398866-01	.1061458+00	-.5672592-02	-.8027895-02	.1094659-02
53	-.1843946+00	.4068433-01	.7466970-01	-.8046006-02	-.5583460-02	.1094768-02
54	-.1692239+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	-.3212946-02	.1667431+00	-.2005351+00	.2622086-02	.9423258-02	.1090132-02
61	.4596345-01	.1592025+00	-.1689152+00	.5686565-02	.7957948-02	.1090159-02
62	.8959329-01	.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	.5156089-01	.2323841-01	.9734066-02	-.9453951-03	.1091703-02
65	.1415660+00	.1832070-02	.9386309-01	.8823791-02	-.4217597-02	.1091645-02
66	.1255991+00	-.4527516-01	.1535102+00	.6849527-02	-.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	-.9471602-02	-.2442107-02	.1091598-02
73	-.1404526+00	-.4478878-02	-.1755440-01	-.9735863-02	.9449920-03	.1091818-02
74	-.1238336+00	-.1378172+00	-.1267244+00	-.8828854-02	.4219532-02	.1092979-02
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	.1144833+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	-.1214573+00	-.1541636+00	-.6830330-02	.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	-.4216811-02	.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	-.3422517+00	.2990722+00	-.5685278-02	-.7962150-02	.1086948-02
107	.1511203+00	-.4218193+00	.2088519+00	-.8066452-02	-.5537651-02	.1089174-02
108	-.1614829-01	-.4456219+00	.9376283-01	-.9475657-02	-.2444375-02	.1092842-02
109	-.1815158+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	-.4048245-02	.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	.4329640+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	.3374994+00	-.5684319-02	-.7962951-02	.1082926-02
125	.2785610+00	-.6021265+00	.2355935+00	-.8065788-02	-.5538902-02	.1086247-02
126	.4014858-01	-.6583390+00	.1055808+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	-.9183458+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	.7111593+00	-.3592944+00	.5687621-02	.7966601-02	.1097683-02
134	-.4222594+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	.9781058+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	-.1363699-01	.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	-.9009819+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

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	-.2318265-01	-.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	.5369902-03	-.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	.1849930+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	-.8918140-02	-.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	-.2828325+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	.8677724-01	-.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	-.6699739-01	-.4296150-02	.6973928-02	.4733542-03
6	.1200039+00	-.1010062+00	-.8033704-01	-.2357443-03	.8198478-02	.4661386-03
7	.5078643-01	-.1967582+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	-.6974649-02	.4785764-03
12	-.1199610+00	.1115140+00	.9956044-01	.2303649-03	-.8190132-02	.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	-.8103417-02	-.3813743-03	.1096266-02
16	.1636175+00	.2428194-01	.1707581+00	-.7219591-02	.3729192-02	.1094332-02
17	.1482389+00	-.5948487-01	.1432319+00	-.4392521-02	.6841028-02	.1091980-02
18	.9435347-01	-.1246926+00	.1319295+00	-.3839748-03	.8121214-02	.1093763-02
19	.1483704-01	-.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	-.1490407+00	.7914797-01	.2692158+00	.4395154-02	-.6824637-02	.1103447-02
24	-.9445091-01	.1443498+00	.2755297+00	.3965402-03	-.8101710-02	.1104881-02
25	.2946292-01	.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	.3982805-01	-.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	-.1111289+00	-.2359472+00	-.1296841-03	.8118612-02	-.9217606-04
31	-.2446771-01	-.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	.7717697-01	-.1238443+00	.4171453-02	-.6967565-02	-.9495623-04
36	-.3551977-01	.1097412+00	-.1148612+00	.1288290-03	-.8121419-02	-.9512795-04
37	.2059325+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	-.1236235+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	-.9396962-01	-.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	.4750853-03
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	.1155129+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	-.4638457-01	-.7812510-02	.2594663-02	.4776056-03
61	-.5059197-01	-.2301689+00	-.1006787+00	-.6454223-02	.5110266-02	.4779400-03
62	-.1297941+00	-.1983637+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	-.1829883+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	-.7655291-02	-.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	.8148023-02	.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	.3963768+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	.3606021+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

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	.1998721+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	-.1661428-02	.8066865-02	.4803167-03
118	-.7751798+00	.2331040-01	-.3328897+00	.1196793-02	.8149150-02	.4826397-03
119	-.7274061+00	.2882551+00	-.2950313+00	.3911357-02	.7248853-02	.4831671-03
120	-.5918840+00	.5208836+00	-.2204239+00	.6155209-02	.5474053-02	.4808614-03
121	-.3649174+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	.1378857+00	.7830461+00	.1187393+00	.7819484-02	-.2596781-02	.4731134-03
124	.3905684+00	.6898626+00	.2295628+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	.3497387+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	.3392879+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	-.5233221+00	-.8157810+00	-.2230408+00	-.6457097-02	.5118786-02	.4682376-03
134	-.7780786+00	-.5863105+00	-.3093989+00	-.4317612-02	.7017784-02	.4717231-03
135	-.9390941+00	-.2835358+00	-.3573063+00	-.1683951-02	.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	-.7392937+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	.8594598+00	.2429319+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	-.8154882-02	.4824797-03
146	.9395359-01	.1851703+00	.2485318+00	-.3718570-02	-.7213917-02	.1012343-02
147	.1789241+00	.5026172-01	.1807395+00	-.7214752-02	.3720317-02	.1012929-02
148	.4902076-01	-.1726555+00	.1590652+00	.3721350-02	.7216134-02	.1012936-02
149	-.1785259+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	-.3714677-02	.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	.1080516-02
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	.7220212-02	.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	.3955825-02	-.8536772-04
172	.1229031+00	.4687052-01	-.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	-.4229026-02	-.1892297+00	-.7073088-02	.3952635-02	-.5503867-04
182	-.3905442-02	-.1251902+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	.7016204-02	-.3956660-02	-.7206734-04

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

JOINT	1	2	3	4	5	6
1	-.3264451-02	.3994440+00	.1629478-02	.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	.3272162-02	-.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	-.4826172-01	-.1975729-02	.4158556-02	-.3006735-03
10	-.3528593+00	-.6705793-02	-.5304889-01	.3699284-03	.4606665-02	-.3052873-03
11	-.3072413+00	.1701709+00	-.3425019-01	.2621742-02	.3811611-02	-.3124750-03
12	-.1792653+00	.3005350+00	-.2423930-01	.4175353-02	.1990414-02	-.3120902-03
13	-.1824423-02	.3369920+00	.1099668-01	.4470169-02	-.3836386-03	-.1090261-02
14	.1712345+00	.2911141+00	.3043782-01	.3696488-02	-.2555962-02	-.1061969-02
15	.2986902+00	.1651837+00	.4377077-01	.1927928-02	-.4088051-02	-.1053108-02
16	.3460125+00	-.7561116-02	.4745069-01	-.3718407-03	-.4512792-02	-.1051412-02
17	.3005718+00	-.1807906+00	.3946401-01	-.2579847-02	-.3716927-02	-.1042800-02
18	.1745738+00	-.3080793+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	-.2985948+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	.2892140+00	-.9282191-02	.4092078-02	.1907031-02	-.1064320-02
25	.1056509-02	.3431508+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	.1837986-01	.1937610-02	-.4082330-02	.2601130-03
28	.3912127+00	.8883008-03	.2152720-01	-.3676207-03	-.4502776-02	.2614000-03
29	.3382780+00	-.1945717+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	-.3719337-02	.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	.3022503+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	-.4555099-01	-.3341430-02	.3531526-02	-.3089298-03
50	-.4041691+00	-.2307567+00	-.5789111-01	-.2011291-02	.4553005-02	-.3120284-03

51	-.4573694+00	-.7888506-01	-.6354150-01	-.4395474-03	.5027381-02	-.3151226-03
52	-.4554059+00	.8201577-01	-.6182384-01	.1183461-02	.4895858-02	-.3178387-03
53	-.3985126+00	.2325588+00	-.5294980-01	.2662078-02	.4172515-02	-.3197143-03
54	-.2935486+00	.3595287+00	-.3799333-01	.3818086-02	.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	.4335304-02	-.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	.9993564-01	.4506196-03	-.4746670-02	-.3081727-03
61	.5348183+00	-.1133831+00	.9708701-01	-.1199136-02	-.4614413-02	-.3082826-03
62	.4660634+00	-.2894566+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	-.4593981-02	-.1268820-02	-.3086765-03
65	-.1221775-01	-.5518674+00	-.1065920-01	-.4751053-02	.3793773-03	-.3081283-03
66	-.1979613+00	-.5148071+00	-.4523793-01	-.4335256-02	.1981991-02	-.3074374-03
67	-.3598329+00	-.4164556+00	-.7466209-01	-.3396373-02	.3345785-02	-.3069741-03
68	-.4783061+00	-.2686742+00	-.9538209-01	-.2048020-02	.4306215-02	-.3070676-03
69	-.5390870+00	-.8928731-01	-.1048968+00	-.4521420-03	.4747304-02	-.3077273-03
70	-.5348416+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	.4188683+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	.5400129+00	.9208943-02	.4762726-02	-.3809968-03	-.3109199-03
75	.2414998+00	.5938000+00	.5852136-01	.4344208-02	-.1987430-02	-.3094390-03
76	.4332680+00	.4748204+00	.1004625+00	.3401522-02	-.3353437-02	-.3074060-03
77	.5727561+00	.2974331+00	.1299758+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	-.1201934-02	-.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	-.4601506-02	-.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	-.3402787-02	.3350238-02	-.3074987-03
86	-.5727029+00	-.3164175+00	-.1348916+00	-.2052817-02	.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	.4765957-02	-.3814168-03	-.3133983-03
93	.2845070+00	.6857541+00	.7148070-01	.4346215-02	-.1988660-02	-.3095530-03
94	.5058027+00	.5465978+00	.1223158+00	.3402328-02	-.3354909-02	-.3054871-03
95	.6660504+00	.3397685+00	.1580808+00	.2049743-02	-.4315762-02	-.3036524-03
96	.7459560+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	-.4603916-02	-.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	.3350748-02	-.3083435-03
104	-.6659203+00	-.3628069+00	-.1629712+00	-.2054034-02	.4313330-02	-.3053400-03
105	-.7459804+00	-.1138553+00	-.1794399+00	-.4560187-03	.4756427-02	-.3031677-03
106	-.7360781+00	.1479699+00	-.1745716+00	.1198193-02	.4626185-02	-.3036362-03
107	-.6373678+00	.3896459+00	-.1489361+00	.2709443-02	.3937530-02	-.3069720-03
108	-.4617273+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	.3767608-01	.8992503+00	.1355276-01	.4768070-02	-.3822675-03	-.3169628-03
111	.3303666+00	.7843455+00	.8110787-01	.4346904-02	-.1990477-02	-.3088910-03
112	.5830901+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	.1974575+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	.1139985+00	-.3891947-02	-.2770208-02	-.3105399-03
118	.2595445+00	-.8357956+00	.5097772-01	-.4604389-02	-.1271889-02	-.3115261-03
119	-.3748248-01	-.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	-.8426148+00	.1735931+00	-.1969357+00	.1197086-02	.4628588-02	-.2989618-03
125	-.7281030+00	.4505565+00	-.1679879+00	.2709131-02	.3940320-02	-.3042606-03
126	-.5256490+00	.6716369+00	-.1190341+00	.3896189-02	.2775126-02	-.3140368-03
127	-.2696571+00	.8101132+00	-.5597190-01	.4612068-02	.1273395-02	-.3199704-03
128	.4772751-01	.9723056+00	.1500342-01	.4783802-02	-.3852548-03	-.3275597-03
129	.3823242+00	.8964571+00	.8829343-01	.4359824-02	-.1997744-02	-.3040044-03
130	.6704822+00	.7108197+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	.1769339+00	-.2719335-02	-.3947073-02	-.3164840-03
135	.5974992+00	-.7997830+00	.1238231+00	-.3906632-02	-.2778466-02	-.3170286-03
136	.2927056+00	-.9567514+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	-.9243269+00	-.9312921-01	-.4356985-02	.1994802-02	-.3203201-03
139	-.6698344+00	-.7389216+00	-.1553990+00	-.3412418-02	.3364519-02	-.3156057-03
140	-.8273566+00	-.4661212+00	-.1992484+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	-.1286679+00	.3909826-02	.2780303-02	-.3168073-03
145	-.2928782+00	.9290849+00	-.6044219-01	.4627210-02	.1274584-02	-.3333084-03
146	-.3420541-02	.9214582+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	.2589886-02	.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	-.4529905-02	.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	.2944875-02	.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	-.3765782-03	-.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	.6042681-01	.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	.2443404-03
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	.3410413-03	.4499727-02	.2731042-03
179	-.3781739+00	.7442556-03	-.2778431-01	.3462179-03	.4488748-02	.1369731-03
180	.1799994-04	.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	-.1061326-01	.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	-.4496230-02	.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	.2[illegible]4749-03
193	-.4437327+00	.5242190-02	-.1205640-01	.3535380-03	.4453322-02	.2[illegible]1707-03

**ORIGINAL PAGE IS
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VIBRATIONAL MODE = 10= 27 17 4
EIGENVALUE= .2346438+05, FREQ= 24.3795 HZ

JOINT	1	2	3	4	5	6
1	-.7353615+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	.1776283+00	-.1034937-01	-.6159667-02	-.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	.9883023-02	.1740071-03
7	.7277374+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	.3626999+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	.1781193+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	-.4208784-02	-.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	.3364900+00	-.5556180+00	.5088566+00	.9764934-02	.6816292-02	-.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	-.8284670-03
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	.3862586+00	-.3499271+00	-.2118151-01	-.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	.2456767-01	-.5713800-03
32	.3640441+00	-.2438115+00	-.5950816+00	.1207694-01	.2126889-01	-.5510361-03
33	.1955187+00	-.3943198+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	-.3692690+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	.1585035+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	.1001229+00	-.6906516-02	-.3532428-02	-.1427863-02
44	.2539016+00	.4056683+00	.7844521-01	-.5892342-02	-.9052120-02	-.1217286-02
45	.3847602+00	.2950650+00	.6108568-01	-.4207213-02	-.1354041-01	-.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	.6235605-01	.4665041-02	-.1379600-01	-.4131279-03
50	.2435723+00	-.4401300+00	.8011805-01	.6186865-02	-.9404443-02	-.4361077-03

51	.8069361-01	-.4960981+00	.1019714+00	.7006265-02	-.3943760-02	-.5370394-03
52	-.9188947-01	-.4939266+00	.1253799+00	.7000398-02	.1945306-02	-.7054412-03
53	-.2533699+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	-.4687948+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	.2532644+00	.3980620+00	.9122355-01	-.1528995-02	.9553775-03	-.1391970-02
63	.3846746+00	.2858528+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	-.2037483+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	.9599111-01	.1651680-02	.7716477-03	-.1221495-02
69	.7995035-01	-.5172552+00	.1093921+00	.1858481-02	.2001514-03	-.1233721-02
70	-.9271494-01	-.5187624+00	.1235988+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	-.2373249+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	-.4508811-01	.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	-.3455273+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	-.9206932-04	-.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	-.1287244-03	-.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	.7596655-01	.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	.1015044-02	-.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	-.8188575-01	.3749737+00	.1167958+00	-.1167919-02	-.1747263-03	-.1320296-02
115	.7106598-01	.3769748+00	.1001632+00	-.1077230-02	.2239308-03	-.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	.4179563+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	-.7896142-01	-.4907979+00	.1279134+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	.3470996+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	.1069180+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	.3973952-04	.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	-.4729209+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	-.4904885+00	-.1846558-01	.6459928+00	-.1280171-02	-.1037521-01	-.9165842-03
147	-.1281931-01	.6847732+00	.5737519+00	-.1047103-01	.1273335-02	-.9407613-03
148	.4906613+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	-.3392689+00	-.3125192-01	.5853844+00	-.4455053-03	-.1089343-01	-.1159180-02
155	-.3665168+00	-.3696974-01	.5840627+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	-.6029041+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	.5687417+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	.4816920-01	-.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	-.4407904+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	.6339475+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	-.3824827-03

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	-.7692196-02	-.1596533-03	.3320505-03	-.1308200-01
2	.5402833-01	-.9147601-01	-.7924927-02	.6215596-04	.4913298-03	-.1304540-01
3	.7154985-01	-.1256512+00	-.6831016-02	.2490299-03	.4699290-03	-.1324673-01
4	.7417910-01	-.1651365+00	-.4668030-02	.3603903-03	.1819788-03	-.1331842-01
5	.5560619-01	-.1996731+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	-.1637591+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	-.4895157-02	-.3325079-03	-.1222247-03	-.1326162-01
12	-.1795479-01	-.7065935-01	-.6487466-02	-.2707803-03	.9572533-04	-.1305211-01
13	.1759768-01	-.3894355+00	-.1822148-01	-.5327452-02	.4614022-03	-.1281378-01
14	-.1222205+00	-.3614099+00	-.3494120-01	-.4440616-02	.3886517-02	-.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	.1556844-02	-.4257378-02	-.1262459-01
22	.2796212+00	-.9292103-01	.1746526-01	-.9003909-03	-.4585604-02	-.1261441-01
23	.2515003+00	-.2396267+00	.1224915-01	-.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	.3148985+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	.2978839-01	-.5695354-03	-.2505707-02	-.6479395-02
30	.1673717+00	-.3630638+00	.2507829-01	-.1746024-02	-.1874538-02	-.6474295-02
31	-.1239009-01	-.4045292+00	.1672729-01	-.2430655-02	-.6872962-03	-.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	-.1585432-02	.1741239-02	.1691125-02	-.6469159-02
37	-.2826326-01	.1744597-01	-.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	.1980595-02	-.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	-.2656477+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	-.2695718+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	-.1382855+00	-.3739042-02	-.1147622-02	.7205119-04	-.1924193-01
57	.2928194-01	-.1757840+00	-.1214639-01	-.1064742-02	.4582901-03	-.1923568-01
58	.4090188-01	-.1880549+00	-.1948070-01	-.8648615-03	.7973506-03	-.1921400-01
59	.4742579-01	-.1935559+00	-.2491558-01	-.5641710-03	.1052387-02	-.1918704-01
60	.4807030-01	-.1903373+00	-.2778560-01	-.1893791-03	.1191911-02	-.1916774-01
61	.4285624-01	-.1863152+00	-.2767091-01	.2211000-03	.1193907-02	-.1916579-01
62	.3256050-01	-.1895503+00	-.2448194-01	.6185406-03	.1050894-02	-.1918290-01
63	.1855198-01	-.1884885+00	-.1851891-01	.9493494-03	.7742313-03	-.1921181-01
64	.2566702-02	-.1821274+00	-.1047555-01	.1164194-02	.3955364-03	-.1923971-01
65	-.1352334-01	-.1801022+00	-.1367372-02	.1228462-02	-.3631161-04	-.1925426-01
66	-.2790776-01	-.1826948+00	.7612640-02	.1130522-02	-.4626006-03	-.1924929-01
67	-.3899572-01	-.1807827+00	.1528228-01	.8848422-03	-.8249759-03	-.1922736-01
68	-.4554156-01	-.1857409+00	.2065853-01	.5289794-03	-.1075707-02	-.1919855-01
69	-.4675273-01	-.1893042+00	.2310319-01	.1153861-03	-.1185300-02	-.1917591-01
70	-.4238578-01	-.1933952+00	.2239490-01	-.2993374-03	-.1145716-02	-.1916949-01
71	-.3282066-01	-.1979203+00	.1872198-01	-.6643812-03	-.9689372-03	-.1918163-01
72	-.1908326-01	-.1970463+00	.1261165-01	-.9413195-03	-.6821566-03	-.1920588-01
73	-.2782819-02	-.1964797+00	.4826609-02	-.1106129-02	-.3217275-03	-.1922997-01
74	.1314580-01	-.1901087+00	-.3661554-02	-.1232581-02	.5110963-04	-.1923782-01
75	.1882687-01	-.1957098+00	-.1653832-01	-.1148553-02	.4704984-03	-.1923003-01
76	.2205034-01	-.1929119+00	-.2781178-01	-.9358263-03	.8393276-03	-.1920349-01
77	.2227639-01	-.1907415+00	-.3619541-01	-.6135956-03	.1116659-02	-.1917036-01
78	.1948858-01	-.1881221+00	-.4066993-01	-.2125072-03	.1268616-02	-.1914618-01
79	.1419311-01	-.1840658+00	-.4060814-01	.2251292-03	.1272569-02	-.1914280-01
80	.7282508-02	-.1828388+00	-.3589122-01	.6474290-03	.1121859-02	-.1916222-01
81	-.1951760-03	-.1829593+00	-.2698316-01	.9986705-03	.8295608-03	-.1919570-01
82	-.7264295-02	-.1827088+00	-.1492546-01	.1228365-02	.4293491-03	-.1922757-01
83	-.1317478-01	-.1840733+00	-.1226342-02	.1301206-02	-.2782267-04	-.1924303-01
84	-.1744330-01	-.1886507+00	.1234611-01	.1204905-02	-.4811372-03	-.1923497-01
85	-.1980174-01	-.1860623+00	.2403258-01	.9533954-03	-.8699499-03	-.1920750-01
86	-.2011306-01	-.1849958+00	.3235272-01	.5839697-03	-.1143944-02	-.1917343-01
87	-.1832253-01	-.1898713+00	.3631649-01	.1493941-03	-.1270773-02	-.1914842-01
88	-.1447301-01	-.1923163+00	.3553566-01	-.2922989-03	-.1239569-02	-.1914375-01
89	-.8779315-02	-.1881215+00	.3022843-01	-.6872650-03	-.1060166-02	-.1916157-01
90	-.1716395-02	-.1861664+00	.2113575-01	-.9926890-03	-.7590778-03	-.1919320-01
91	.5933848-02	-.1868145+00	.9384276-02	-.1179609-02	-.3740430-03	-.1922333-01
92	.1242177-01	-.1946314+00	-.3758840-02	-.1251246-02	.3711433-04	-.2006638-01
93	.8834726-02	-.1983545+00	-.1960137-01	-.1167105-02	.4643905-03	-.2005642-01
94	.3874841-02	-.1960640+00	-.3349459-01	-.9533936-03	.8406983-03	-.2002068-01
95	-.2110183-02	-.1909407+00	-.4386634-01	-.6287817-03	.1124736-02	-.1997528-01
96	-.8383460-02	-.1891093+00	-.4945734-01	-.2230228-03	.1281874-02	-.1994195-01
97	-.1390915-01	-.1851733+00	-.4947535-01	.2218132-03	.1288405-02	-.1993682-01
98	-.1760560-01	-.1895812+00	-.4374750-01	.6530466-03	.1136696-02	-.1996278-01
99	-.1867806-01	-.1931285+00	-.3282337-01	.1013335-02	.8394227-03	-.2000746-01
100	-.1688434-01	-.1968024+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	-.1160414-02	-.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	-.7496492+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	-.3147954-01	-.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	-.5588[illegible]-01	.2165463-03	.1334797-02	-.2011326-01
116	-.4479898-01	-.8385543+00	-.4948[illegible]-01	.6538887-03	.1182501-02	-.2014827-01
117	-.3899867-01	-.8237114+00	-.3705[illegible]-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	-.2022588-01
122	.3329436-01	-.8177803+00	.4663434-01	.6008046-03	-.1210750-02	-.2016277-01
123	.4090164-01	-.8308676+00	.5219737-01	.1520332-03	-.1342412-02	-.2012041-01
124	.4323342-01	-.8456582+00	.5106802-01	-.3004155-03	-.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	-.1196997-01	-.1604898-02	.5029677-04	-.2045701-01
129	-.1389206-01	-.9995167+00	-.3683519-01	-.1497021-02	.5970397-03	-.2044953-01
130	-.3791041-01	-.9909588+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	-.8363332-01	-.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	.1897979-01	.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	.3586901-01	-.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	-.5860158-02	-.1148393-01
150	.1624678-01	-.4481250+00	-.1671829-01	-.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	.1185415+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	.2637137+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	-.2298711+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	.2698325-02	.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	-.1405865-01	-.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= ID= 2/ 1/ 6
EIGENVALUE= .3135963+05, FREQ= 28.1842 HZ

JOINT	1	2	3	4	5	6
1	-.1724787-03	-.8452862-05	.1428962-03	.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	-.9499103-05	.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	-.7969035-06	-.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	.1194523-05	-.1642283-04
19	.1973242-03	.4023850-04	.2302140-03	-.1670985-04	.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	.1698988-04	-.1668252-04
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	-.1404447-04	-.6699229-05	-.9124825-05
26	-.1807456-03	.1346470-03	-.1503579-03	-.1535175-04	.1638537-05	-.9097878-05
27	-.5535220-04	.1981049-03	-.2052548-03	-.1293692-04	.9166873-05	-.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	-.1279289-05	-.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	.5163526-03	-.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	.1815143-03
47	-.1804950-02	-.7316598-03	-.7239957-02	-.1048408-02	.2669717-02	.8742328-04
48	-.2977334-02	-.4553349-03	-.1151278-01	-.3114072-03	.9259611-02	-.5436238-04
49	-.2709303-02	-.1056233-03	-.1042423-01	.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	-.6804653-02	-.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	-.7081948-02	-.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	.5266771-01	.1623319-01	.4093373-01	.2396407-02	-.2969285-02	-.2140061-02
71	.6120958-01	-.5240738-02	.4782472-01	-.6277951-03	-.3452515-02	.5628149-03
72	.4105437-01	-.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	-.3407668+00	-.3938296-01	-.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	.4471199-02	-.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	.1345977-01
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	-.1892113+00	.9661484-02	.6884312-02	-.9330161-02
113	-.2235999+00	.2843956+00	-.7892799-01	.9269734-02	.2877505-02	-.1852976-01
114	.1796361+00	.2927325+00	.6329974-01	.9540591-02	-.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	.3569534+00	-.2288188+00	.1399348+00	-.7411058-02	-.5193697-02	.1477540-01
118	.2362476-01	-.3087493+00	.8279968-02	-.1000756-01	-.2142161-03	.1995850-01
119	-.3606720+00	-.2446497+00	-.1272588+00	-.7921367-02	.4865378-02	.1579258-01
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	.1756409+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	.1399298+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	-.2692559-02	-.3114286-01
142	.8501300+00	.2734813+00	.2845241+00	.7534849-02	-.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	-.2325870-03	-.3509405-03	.3884237-03	.1630221-04	-.1005632-04	-.1544759-04
147	-.2556319-03	.1433300-03	.4273411-03	-.1007966-04	-.1633108-04	-.1546511-04
148	.2386576-03	.1598861-04	.2635640-03	-.1638287-04	.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	.1634394-04	-.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	-.3127561-03	-.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	.3160293-03	.8996187-04	.3121320-03	-.9239312-05	.1716379-04	-.3575328-06
167	.3148467-03	-.9239599-04	.3098655-03	.4999356-06	.1905912-04	-.1548954-04
168	.2332101-03	-.2397700-03	.3122414-03	.1000076-04	.1626004-04	-.1547941-04
169	.8882874-04	-.3265663-03	.3183434-03	.1681462-04	.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	.2322452-03	-.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. ID= 2/ 1/ 7
EIGENVALUE= .3138643+05, FREQ= 28.1962 HZ

JOINT	1	2	3	4	5	6
1	-.2105265-03	.1087910-04	.2500252-03	-.1639077-04	-.6684951-04	.2189978-04
2	-.3690701-03	.1671811-03	.4533063-06	-.3170092-04	.3698889-05	.3233806-04
3	-.4229950-03	.3779393-03	-.2381740-03	-.1655984-04	.6391816-04	.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	-.2529819-03	-.3017106-03	-.1685032-05	.7024088-04	.1811884-04
10	-.1386828-03	-.2286320-03	-.2235568-03	.2456610-04	.5585514-04	-.7031554-05
11	-.1313389-03	-.1609952-03	.3383953-04	.3378661-04	-.1050023-04	-.1456448-04
12	-.1163295-03	-.8765922-04	.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	.3004009-05	.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	.4506947-03	.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	-.1186037-04	.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	-.4140704-05	.7593159-05
30	.2273931-03	.3103896-03	-.2149736-03	-.1313331-04	.2734283-05	.7582914-05
31	.3239993-03	.1620381-03	-.2610643-03	-.1007195-04	.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	.1319405-04	.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	-.1606843-03	.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	-.8387766-03	.7266342-03	-.2468028-02	.1245980-02	.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	.1698530-02	.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	.3085275-02	-.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	.4352961-02	-.6178538-04
56	-.4852376-03	.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	.2859576-01	.2244211-01	.3961108-02	-.1642806-02	-.3507471-02
59	.5703625-01	.1231633-01	.4440439-01	.1681618-02	-.3217832-02	-.1462090-02
60	.5834898-01	-.9440196-02	.4556957-01	-.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	-.4796541-01	-.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	.2831855-01	.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	.3424471-02
71	-.8970203-02	-.3138575-01	-.6710193-02	-.4441198-02	.5015015-03	.3979274-02
72	-.4610694-01	-.2099549-01	-.3567362-01	-.3001499-02	.2586225-02	.2680149-02
73	-.6172072-01	-.6678702-03	-.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	.9590872-01	-.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	-.2712696-02	-.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	.9585896-01	-.7969111-01	.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	-.4465735-02	.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	.7160260-01	.7366766-02	-.2933245-02	-.1181746-01
95	.3203732+00	.6919485-01	.1422400+00	.3146444-02	-.5750320-02	-.5030232-02
96	.3293875+00	-.5454141-01	.1463048+00	-.2545844-02	-.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	-.3455828+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	.3144290-02	-.5749451-02	-.5029879-02
105	.3294762+00	-.5507038-01	.1462442+00	-.2547794-02	-.5875271-02	.4120232-02
106	.1841557+00	-.1528724+00	.8181672-01	-.7097832-02	-.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	.5220864-03
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	-.2771244-01	-.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	.2993607+00	-.4395397-01	.9710074-02	.1556735-02	-.1937049-01
121	.2725099+00	.2711365+00	.9593632-01	.8795357-02	-.3698312-02	-.1754380-01
122	.5416934+00	.1163437+00	.1909071+00	.3764730-02	-.7222674-02	-.7499193-02
123	.5574477+00	-.9260978-01	.1965154+00	-.3027643-02	-.7367152-02	.6062654-02
124	.3123790+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	-.5023299+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	.4965594+00	-.6532793-01	.1406876-01	.1594302-02	-.3159396-01
139	.4625603+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	.1721082+00	-.1225451-01	-.4406651-02	.2733489-01
143	-.1311543+00	-.5028064+00	-.4957183-01	-.1419319-01	.1408222-02	.3211417-01
144	-.7382214+00	-.3421466+00	-.2481699+00	-.9489737-02	.6564340-02	.2187991-01
145	-.1000000+01	-.2104412-01	-.3306772+00	-.3467086-03	.8648825-02	.1415394-01
146	-.3015861-03	.2935291-03	.5930541-03	-.1133800-04	-.1425621-04	.1235063-04
147	.2172659-03	.3785505-03	.3845296-03	-.1433018-04	.1131492-04	.1234427-04
148	.3024926-03	-.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	-.1795425-04	.1238068-04
171	-.9831170-04	.3502674-03	-.1518287-03	-.6827619-05	-.1016243-04	.6731302-05
172	-.2513466-03	.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. ID= 2/ 1/ 0
EIGENVALUE= .5143013+05, FREQ= 36.0935 HZ

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	.5433841-04	.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	.2007861+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	-.2928568+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	-.1314531+00	-.2290869+00	-.3849390+00	-.1072101-01	.6250034-02	-.7979865-04
30	-.2280159+00	-.1324752+00	-.4192830+00	-.6146276-02	.1071077-01	-.7921147-04
31	-.2635678+00	-.3982384-03	-.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	.6119874-02	.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	-.2601720-02	-.2405267-01	.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	.1538736+00	-.2774135+00	-.7719912-01	-.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	.2768347+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	.4338219-02	.2653943-02	.9990400-05
60	.3505431-01	-.1802767+00	-.9868538-01	.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	-.3876806-02	.2583872-04
64	-.1710633+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	.1182157+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	-.8610409-03	.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	-.3204671-01	-.1134396+00	.5965429-02	.1220619-02	.6163832-04
79	-.2605056-02	-.3336362-01	-.4880908-01	.5985729-02	-.9475137-03	.6043074-04
80	-.1431769-01	-.3031782-01	.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	.1164191-01	.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	.3779632-01	-.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

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	-.4933572-02	.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	-.1191372+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	.2571607+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	.2556111+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	-.2629462+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	-.3112199+00	-.5294753+00	-.7149141-02	.9165296-02	.3051679-04
145	-.4512580+00	-.1676508+00	-.6159271+00	-.3638041-02	.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	.1460292+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

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= 10= 2(1/ 9
EIGENVALUE= .1105460+06, FREQ= 52.9166 HZ

JOINT	1	2	3	4	5	6
1	.8126757-02	.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	-.4212458-02
4	.1283229+00	-.4886266-01	-.1312875+00	.4062751-03	.1168464-01	-.4130402-02
5	.1089347+00	-.1121463+00	-.1118904+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	-.3879201-01	-.1935980+00	-.1769088-01	.2582627-01	-.1455332-02
16	-.4594862-01	-.1522636-01	-.2180677+00	.5701068-03	.3156093-01	-.1357012-02
17	-.9222538-01	.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	.4204186-02	.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	.4857251-02	-.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	-.9194346-01	.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	-.8039676-01	-.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	.8609839-01	-.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	.2226012-01	.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	-.4182757-01	.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	.5776519-02	.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	-.6086630-03	.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	.3564896-01	.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	.2024887+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	-.3840503-01	.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	.1144260-02	.6774809-02
104	-.3039782-01	.2399650+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	.2276922-03	.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	-.6607150-02	.2828586+00	-.3196168-01	.1555623-02	.7238646-03	.6764307-02
110	.3342078-02	.2797160+00	-.1167710-01	.1799903-02	.1377496-03	.7102493-02
111	.3134522-01	.2735687+00	.1421909-01	.1718141-02	-.5880604-03	.7100794-02
112	.5563277-01	.2582873+00	.3741568-01	.1433090-02	-.1238003-02	.7092420-02
113	.7336451-01	.2356684+00	.5515978-01	.9770828-03	-.1735444-02	.7081058-02
114	.8240574-01	.2083748+00	.6531349-01	.4017079-03	-.2020478-02	.7073110-02
115	.8157402-01	.1796492+00	.6660924-01	-.2261521-03	-.2057020-02	.7073737-02
116	.7082862-01	.1529518+00	.5882624-01	-.8312248-03	-.1838068-02	.7083508-02
117	.5135178-01	.1315477+00	.4284808-01	-.1338716-02	-.1387867-02	.7098136-02
118	.2546567-01	.1180896+00	.2058579-01	-.1684154-02	-.7600836-03	.7110790-02
119	-.3629970-02	.1142638+00	-.5244778-02	-.1822898-02	-.3168718-04	.7115022-02
120	-.3228003-01	.1205511+00	-.3146506-01	-.1736889-02	.7069278-03	.7108653-02
121	-.5689213-01	.1361585+00	-.5484790-01	-.1437744-02	.1364132-02	.7095121-02
122	-.7445120-01	.1591321+00	-.7254350-01	-.9648929-03	.1859530-02	.7082238-02
123	-.8291279-01	.1866361+00	-.8243943-01	-.3786976-03	.2134276-02	.7076562-02
124	-.8138925-01	.2153303+00	-.8339876-01	.2489341-03	.2157473-02	.7079153-02
125	-.7016698-01	.2417762+00	-.7536006-01	.8437131-03	.1928425-02	.7086245-02
126	-.5062750-01	.2628304+00	-.5931721-01	.1336104-02	.1475734-02	.7093119-02
127	-.2510616-01	.2759948+00	-.3720457-01	.1667849-02	.8540264-03	.7098852-02
128	.1077042-01	.2798746+00	.2427988-01	.1018181-01	-.4914077-03	.7352888-02
129	.5441582-01	.2722757+00	.1815305+00	.9437787-02	-.4013290-02	.7350721-02
130	.1133569+00	.2529979+00	.3179489+00	.7581584-02	-.7066722-02	.7313296-02
131	.1594130+00	.2253602+00	.4173395+00	.4814888-02	-.9290481-02	.7262274-02
132	.1869686+00	.1948210+00	.4675842+00	.1446675-02	-.1041247-01	.7230969-02
133	.1922535+00	.1685006+00	.4621582+00	-.2131788-02	-.1028391-01	.7231217-02
134	.1741067+00	.1493893+00	.4011437+00	-.5486702-02	-.8903904-02	.7263942-02
135	.1343055+00	.1403899+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	.7310614-02
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	-.4518965+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	.5134396-01	.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

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	.5616993-01	-.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	-.2463869-02	-.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	.3266937-01	.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	.3560[illegible]-01	.3272351-01	-.3638529-01	-.1930290-01	-.6731496-03
171	.1328111+00	-.1789[illegible]-01	-.4318057-01	.3803387-03	.1063546-01	-.3105557-02
172	-.3882236-03	-.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	-.3110981-02
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	-.1327066+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 10= 27 17 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	.3419741-02	.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	.1086619-01	.6801869-03	.4057366-02	.1120830-04	.1774237-02
8	-.4420464-02	.1195019-01	.2341296-01	.3596333-02	-.2120029-02	.2090080-02
9	-.9223390-02	.1559137-01	.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	.9459922-03	.2168960-02	.3205188-02
18	.3598365-01	-.3733366-01	-.1209494-01	.1898618-02	.1423799-02	.3240585-02
19	-.7810447-03	-.4711510-01	.1250217-02	-.2402049-02	.2914415-03	.3171625-02
20	-.3731300-01	-.3780714-01	.1448165-01	.2279581-02	-.9471976-03	.3070526-02
21	-.6491161-01	-.1151089-01	.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	.2971237-02	.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	.7582812-01	.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	.6339311-01	.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	.1792981-03	.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	-.1496490-02
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	-.4972150-01	.7237410-03	-.2251424-04	.7780904-04	-.1491792-02
61	-.7061630-01	-.2043671-01	.6162927-03	-.6871528-05	.8551919-04	-.1481356-02
62	-.6241978-01	.3449992-02	.6170899-03	.6480783-05	.8426120-04	-.1466029-02
63	-.4671495-01	.2306850-01	.7068013-03	.1725146-04	.7552933-04	-.1448882-02
64	-.2541058-01	.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	.6151579-01	.5889413-02	.2079103-02	.4790624-04	-.3820997-04	-.1456687-02
69	.7053901-01	-.1764567-01	.2412676-02	.4040153-04	-.6309167-04	-.1472790-02
70	.7110416-01	-.4291306-01	.2660002-02	.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	.2158802-02	-.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	.1007960-02	-.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	.6906761-02	.7605407-03	-.3212978-03	.3439267-04	-.1792369-02
84	.1972515-01	.5802662-02	-.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	.1346473-01	.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	-.2199092-01	-.1176399+00	.1764622-01	.4103966-03	-.4708254-03	-.2063052-02
113	-.3087756-01	-.1083826+00	.2253818-01	.2549775-03	-.6098981-03	-.2063793-02
114	-.3651525-01	-.9647099-01	.2491943-01	.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	-.5884977-03	.2450502-04	-.2057365-02
120	.9462275-02	-.4947101-01	-.7390989-02	-.5145511-03	.2493436-03	-.2058187-02
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	.1259295-03	.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	-.2060056-02
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	-.1949492+00	.2642750+00	-.2070545-01	-.6345775-02	-.2152145-02
137	.2803091-01	-.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	.4869727-02	.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	-.4790967-03	.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	-.6677219-01	-.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

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	-.3949840-02	-.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	.4918494-03	.7020083-01	-.8415779-03	-.1608689-02	-.8817167-04	.3077588-02
159	-.5947858-04	.8303419-01	-.1003553-02	-.1565989-02	-.8388913-04	.3084388-02
160	.9042688-01	.7282358-01	-.1414443-02	-.1433366-02	.7340640-03	.3091035-02
161	.6952048-01	.4284763-01	-.1411377-02	-.8512784-03	.1506920-02	.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	-.9197171-01	-.8280425-03	.2014456-02	.4661946-04	.6902913-06
166	-.4500997-01	-.7646327-01	-.8841120-04	.1534808-02	-.8238335-03	.6360582-04
167	-.7097833-01	-.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	.3386934-01	.8536516-04	-.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	-.2766903-02	-.6380764-02	.7709229-03	.1012226-02
173	-.1725825+00	.4730587-02	-.2835968-01	.1068334-04	.6389032-02	.1007691-02
174	-.2081892-01	.1759086+00	-.3094252-02	.6308647-02	.8028803-03	.1013275-02
175	.1650305+00	.5066645-02	.2738753-01	.3519781-04	-.5991005-0	.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	.3707139-02	-.2087829-01	-.6126601-04	.6024545-02	.5920282-03
182	.3892832-03	.7306150-01	.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	.9838759-03
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	.9590104-01	-.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. ID= 2/ 1/ 11
EIGENVALUE= .1490177+06, FREQ= 61.4383 HZ

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1	-.3491679-02	-.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	.4563221-02	.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	.3906139-02	-.5308200-05	-.7050129-03	-.2127538-04
8	.5076767-02	-.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	-.7674730-02	-.6583218-03	.3920580-03	-.1425576-03
12	-.3916129-02	-.2299489-02	-.1088093-01	-.4010722-03	.6905097-03	-.1396826-03
13	.9680650-02	-.1965012-02	.4096678-01	-.1687979-03	-.2739822-02	.2312364-03
14	.8232771-02	-.6799988-02	.3628618-01	-.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	-.6380730-04
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	.2608581-01	.1845783-01	.1765183-02	.9742696-03	-.1250997-04
28	.1054959-02	.2954838-01	.2612546-01	.2017495-02	-.3195912-04	-.1521359-04
29	.1572872-01	.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	.8449387-02	-.1198741-01	.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	.8185105-02	-.1749515-02	.1503006-03	.2579730-02	-.2929827-04
47	.2294213-01	-.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	-.2462370-02	-.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	.2155211-03	-.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	-.2717369-01	.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	.1362442-01	-.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	.4367981-04	.5638480-04
71	-.1733222-01	-.2935408-01	-.1139507-01	-.3043405-03	.1706693-03	.6349193-04
72	-.2679026-01	-.2155766-01	-.1345645-01	-.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	-.2732209-02	.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	-.1665531-01	-.3655777-04	.2316072-03	.7739743-04
93	-.4523269-01	.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	-.1575249-04	.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

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	-.6375585-02	-.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	-.5027493-01	.7277763-03	-.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	-.1578106-01	.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	.2272609-01	.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	-.7022466-02	.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	-.3840281-01	-.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	-.4644737-01	-.4557036-01	-.9705516+00	-.4739606-02	.1704964-01	-.1422634-03
137	-.5726915-01	-.2784011-01	-.1000000+01	.1049762-02	.1768193-01	-.1364368-03
138	-.6141151-01	-.7473491-02	-.9372344+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	.4714247-01	.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	-.2904574-02	.4768401-01	-.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	.9510792-03	.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= 27 17 12
EIGENVALUE= .1558934+06, FREQ= 62.8397 HZ

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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	.6709493-02	-.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	.2279298-03	-.1083319-03	-.2112744-04
12	.7032953-02	.2807702-02	-.1166012-01	.1562467-03	-.1760168-03	-.3926617-04
13	.3130915-02	-.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	.1359058-02	-.1245598-01	-.7735861-04	-.4600228-03	-.5446415-04
20	-.1615855-02	.2576287-02	-.1322731-01	-.2020066-03	-.3533268-03	-.7579471-04
21	.5477469-03	.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	-.9686260-04
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	-.4580907-01	-.1927357-02	.9961896-03	-.5575881-04
30	-.3179393-01	-.2153965-01	-.5212772-01	-.1169840-02	.1806891-02	-.5732050-04
31	-.3611433-01	-.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	-.4119847-02	-.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	-.6641296-02	-.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

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	-.9213061-02	.1711224-05	-.1669805-02	-.3742804-04
55	.1041816-01	.3169818-02	-.1006030-01	.1233576-04	-.1367391-02	-.4689737-04
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
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61	-.2531979-03	-.5704434-03	-.4256501-02	.4053531-03	-.3609019-05	-.8823028-04
62	.2623548-03	-.4626943-03	-.1285695-02	.3774238-03	-.1509167-03	-.9420616-04
63	.8169852-03	-.5463879-03	.1291472-02	.3014752-03	-.2791004-03	-.9671358-04
64	.1308606-02	-.8196648-03	.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	-.9762966-04	-.4048175-03	-.8155414-04
67	.1696123-02	-.2199520-02	.2598327-02	-.2287817-03	-.3423050-03	-.7799023-04
68	.1443456-02	-.2615633-02	.4703356-03	-.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	-.3992696-03	.4615761-04	-.8932961-04
71	.3013020-03	-.3094374-02	-.8125230-02	-.3631601-03	.1878280-03	-.9392535-04
72	-.5060528-04	-.2988429-02	-.1058519-01	-.2857149-03	.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	-.1021489-01	.3590799-02	-.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	-.6094494-02	.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	-.3310930-04	-.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	.1431443-01	-.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	-.2443209-01	.3871475-02	-.3858548-03	-.1086985-03	-.8541990-04
106	-.7693341-03	-.2643070-01	-.1268949-02	-.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	-.2709367-01	.1319367-01	-.1288491-01	.2030102-03	.4032474-03	-.7742651-04
113	-.1981933-01	.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	.2688595-01	.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	-.1317570-02	-.3564605-01	.1379704-03	-.3862438-03	.1414453-04	-.9381282-04
125	-.1208587-01	-.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
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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	.1183627-01	.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	.2199213+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	-.2799753-03	-.2574307-03	-.7220525-04
149	.3130027-02	.3477334-02	-.2046966-01	.2533584-03	.2739907-03	-.7188254-04
150	.2768750-04	.5412455-03	-.2089910-01	.2709811-03	.2475908-03	-.6867909-04

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	.1972414-02	-.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	-.4372798-02	-.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	-.5019928-02	-.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	-.4380670-01	-.4216360-03	.2523286-02	-.4522874-04
175	-.3767334-02	.6607801-01	-.3925015-01	.2167175-02	.1076752-03	-.5099230-04
176	-.3920198-01	-.7623199-02	-.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	-.1087142-03	.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	-.1715704-02	-.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

VIBRATIONAL MODE. ID= 2/ 1/ 13
EIGENVALUE= .1659461+06, FREQ= 64.8341 HZ

JOINT	1	2	3	4	5	6
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	.2601892-04	-.5672318-04	.1958579-03	-.7638568-06	-.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	.5769019-04	-.2802051-04	.1000616-05	.7317766-05	.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	.9185162-05	.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	.6360257-05	.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	-.1168639-03	.4745954-04	-.4763438-05	-.9568747-05	.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	.1619220-03	.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	-.4597938-02	.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	-.4844019-03	.1842919-02	-.5380388-03	-.5553574-03	.8768049-04
50	-.5915999-03	-.4796859-03	-.1436010-02	-.5544025-03	.5422342-03	.7103490-04

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	-.1015185-01	-.1646995-01	-.5791099-02	-.1738569-02	.4385145-03	.2041399-02
60	-.2794149-01	-.9185350-02	-.1634421-01	-.9758721-03	.1202267-02	.1138682-02
61	-.3266328-01	.2382790-02	-.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	-.1380252-02	-.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	.4360756-03	.2041406-02
69	-.2790724-01	-.9125112-02	-.1632820-01	-.9783746-03	.1201438-02	.1138701-02
70	-.3261067-01	.2427710-02	-.1919822-01	.2411872-03	.1403569-02	-.2969985-03
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	.3766120-01	-.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	-.1296369-02	.1504118-02	.2471169-02
97	-.1165159+00	.7529958-02	-.4323058-01	.2824810-03	.1771884-02	-.5564107-03
98	-.8001702-01	.4489659-01	-.2975520-01	.1729385-02	.1210116-02	-.3323523-02
99	-.6082208-02	.6125916-01	-.2299251-02	.2367304-02	.8162922-04	-.4535440-02
100	.7069638-01	.9896309-01	.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	-.3429870-01	-.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	.7933289-02	.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	-.1406015-02	.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	-.1269909-02	-.4722252-02
128	-.2629285+00	-.4500082-01	-.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	.8893937+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	-.1449935+00	-.1236431+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	.9787397+00	-.9577531-02	-.2920130-01	.2871590-03
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	.4797679-04	.4877703-04	-.1590252-04	.1373403-05	.1084770-04	.1907901-05
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	.7463637-04	-.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	.2042400-05
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	.4699859-04	.1000614-04	.4318065-05	.2062672-05
162	.3604201-04	-.4615569-04	.5271236-04	.1130593-04	-.1230251-05	.1850203-05
163	-.2406869-05	-.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	-.4732068-04	.6080365-04	-.7995903-06	-.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	-.1066856-04	.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	.3567570-04	-.6430609-04	.3227007-04	-.9648907-06	-.1284044-04	.1235560-05
173	-.2559598-04	-.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	-.2096400-05	.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	.1625628-03	-.3175162-04	.1377167-04	.6544212-06	-.1113232-04	.6940712-06
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	.2195618-04	.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	.4016189-05	.1591996-03	.2072490-04	-.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	.5202413-06	-.5611407-04	-.1828607-03	.1023853-05	.3653449-04	.9474159-05
6	-.5573673-04	-.4299734-04	-.1338617-03	.1673011-04	.3368039-04	-.3044838-06
7	-.3997745-04	-.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	.1828773-06
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	.1513940-03	.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	-.5160931-06	-.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	.1380170-03	.3951500-05	-.2069112-04	.3477699-05
22	-.1358247-03	.4262667-04	.1543010-03	-.8808101-05	-.2086737-04	.3581576-05
23	-.1180990-03	.1106023-03	.1268765-03	-.1994082-04	-.1505023-04	.3875545-05
24	-.7287830-04	.1608623-03	.6284208-04	-.2600676-04	-.4518425-05	.4359741-05
25	.5287872-04	-.2888521-03	.1568719-04	-.3196092-04	-.2439596-05	-.3454305-06
26	-.9724406-04	-.2772052-03	-.1061905-03	-.2887317-04	.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	.2684168-04	-.1379027-04	-.3149275-06
33	.2222286-03	.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	-.2309089-02	-.5182014-03	.7761682-03	.6057373-04
40	-.1794090-02	-.3703459-03	-.4449390-02	-.2244920-03	.1470726-02	.6706842-05
41	-.1881225-02	.7438985-04	-.4503924-02	.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	-.1240787-02	.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	.5712831-03	-.2236605-03	-.7797864-04
53	.1538594-02	.3047154-03	.3667981-02	.3854861-03	-.1175168-02	-.3535313-04
54	.1960910-02	-.1271573-03	.4615371-02	.1797663-04	-.1563767-02	.2383711-04
55	.1516103-02	-.5441703-03	.3731864-02	-.3598673-03	-.1210478-02	.7189067-04
56	.6867037-02	-.1620386-01	.4171606-02	-.1768587-02	-.2925010-03	.2084204-02
57	-.1534461-01	-.1526598-01	-.8936116-02	-.1607[illegible]3-02	.6605133-03	.1882489-02
58	-.3037796-01	-.6527830-02	-.1784462-01	-.687[illegible]56-03	.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	.1220992-02	-.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	.1310106-02
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	-.1791960-01	-.6928489-03	.1308018-02	.7994002-03
68	-.3109926-01	.5343479-02	-.1848868-01	.5476519-03	.1342497-02	-.6585422-03
69	-.1731297-01	.1457030-01	-.1041313-01	.1531188-02	.7497540-03	-.1808995-02
70	-.5968805-02	.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	.1937228-01	.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	.1468080-02	-.1223037-02	-.2249221-02
81	.7128669-01	.1649150-02	.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	.3932128-02	.2141590-02	-.2081999-03	-.3288651-02
89	.5239392-01	.2536860-01	.2388294-01	.1471333-02	-.1214213-02	-.2248987-02
90	.7124254-01	.1736067-02	.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	-.6333369-01	.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

101	.2619307-01	-.5961837-01	.9959441-02	-.2297764-02	-.3905516-03	.4395558-02
102	-.5304873-01	-.5450261-01	-.1966350-01	-.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	.9635497-03	-.3787639-02
106	.1410066-01	.6042693-01	.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	-.7721726-01	-.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	.2571998-01	-.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	.1926644-02	.2315304-02
122	-.1654825+00	.2542583-01	-.5038319-01	.7158759-03	.1996157-02	-.1675511-02
123	-.9511821-01	.7477290-01	-.2911110-01	.2109863-02	.1133189-02	-.4883003-02
124	.1964971-01	.8906799-01	.5726782-02	.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	-.1140407+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	-.7364073+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	.6598040-05	.3073248-04	.8012478-05
148	-.1800565-04	-.2772992-03	.6796295-04	.3079879-04	-.5487149-05	.3961020-05
149	-.2515611-03	.4130517-04	.2294752-03	-.5351257-05	-.3072286-04	.3809538-05
150	-.6607732-04	-.1965901-03	-.1175976-04	-.3053542-04	.5330087-05	.3687029-05

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	-.1898854-03	-.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	-.9669652-04	.1933229-03	.4287149-04	-.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	.1934659-03	.4448347-04	.1107451-03	.2625714-05	-.3231816-04	-.1718547-06
180	.4548310-04	-.1941686-03	.6316463-05	-.3281546-04	-.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	.3229189-04	.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	-.1296529-04	.3227741-04	.2531161-05	-.3131907-06
191	.1552903-03	.1705594-04	-.2687730-05	.7930822-05	-.3301465-04	-.8561548-07
192	.3324408-03	.5609108-04	-.2683010-05	.3978787-05	-.3370912-04	-.2968703-06
193	.7001794-03	.8889016-04	-.2417779-05	.3228244-05	-.3501981-04	-.8495028-07

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