

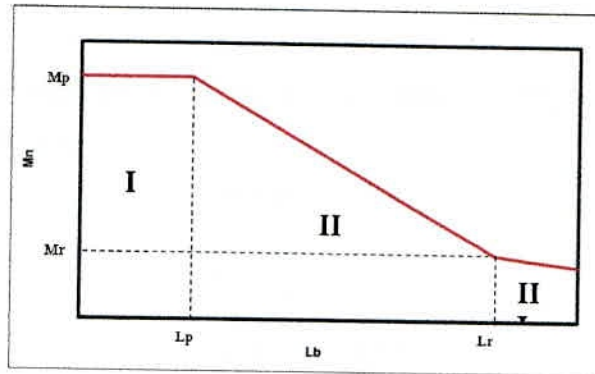
Los elementos metálicos se diseñan bajo todos los requerimientos de flexión, corte y carga axial.

Flexión.

La flexión se estudia para 3 estados límites:

- Flexión
- Pandeo local de la aleta
- Pandeo local del alma
- Pandeo lateral torsional

En secciones compactas, con arriostramiento continuo gobierna el estado límite a flexión.



Donde la zona I o zona de pandeo plástico, aplica para secciones compactas $b_r/t < \lambda_p$ y secciones $L_b < L_p$

$$\phi M_n = \phi \cdot Z \cdot f_y$$

Dónde: $\phi = 0.90$

Z = Modulo de sección plástica de la sección.

F_y = Fluencia del acero.

En la zona II se presenta pandeo inelástico de la sección, la flexión es afectada por la relación entre momentos plásticos y la longitud de arriostramientos laterales, y se calcula por medio de la siguiente expresión

$$\phi M_n = C_b \cdot \phi \cdot \left[M_p - (M_p - M_r) \frac{(L_b - L_p)}{(L_r - L_p)} \right] \leq \phi M_p$$

11.1 VIGAS

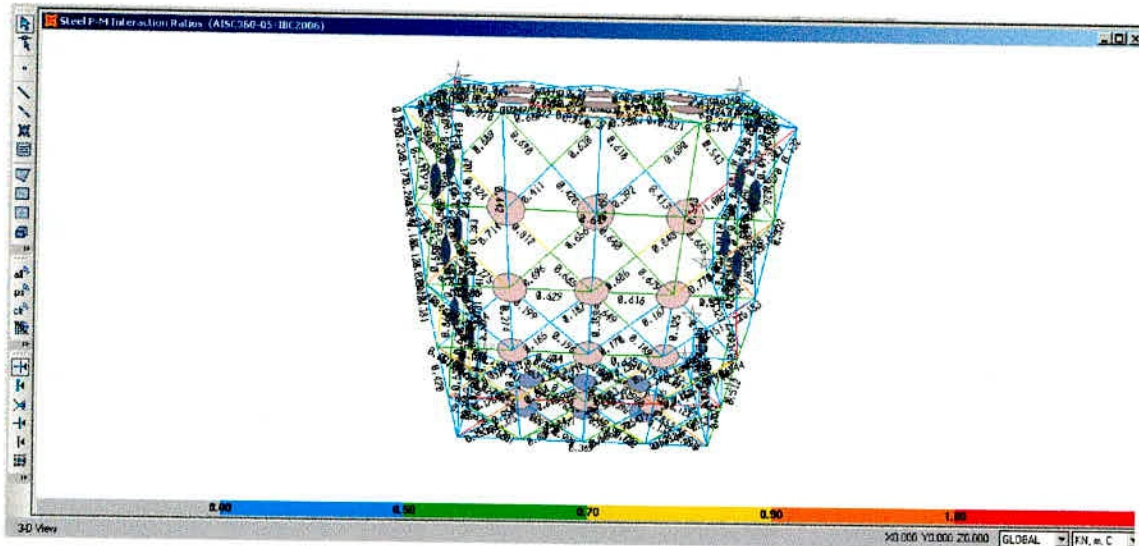


Figura 11-1 Índice de sobreesfuerzos elementos de cubierta

11.2 COLUMNAS

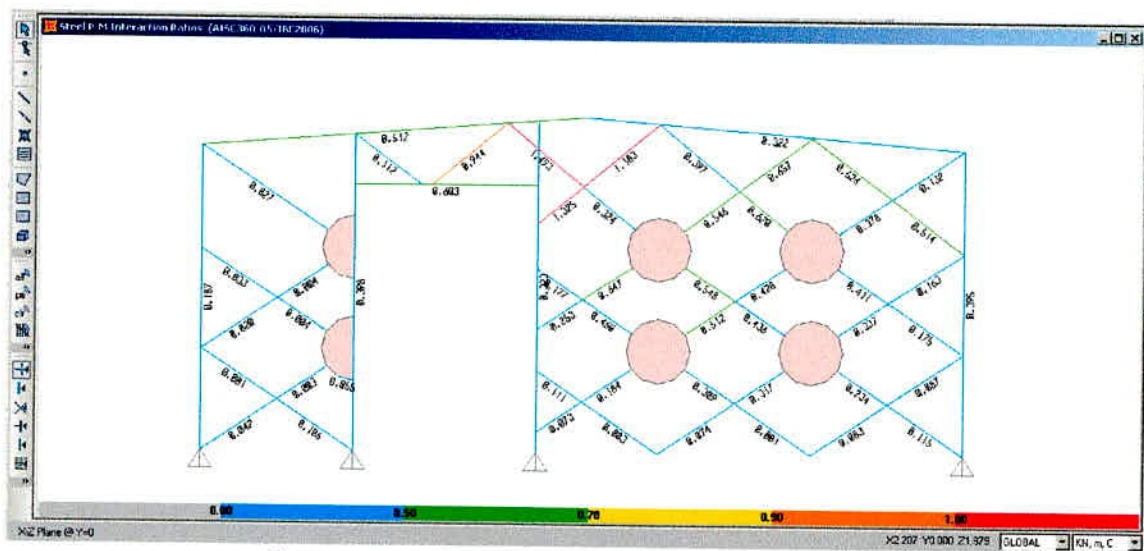


Figura 11-2 Índice de sobreesfuerzos elementos eje 1

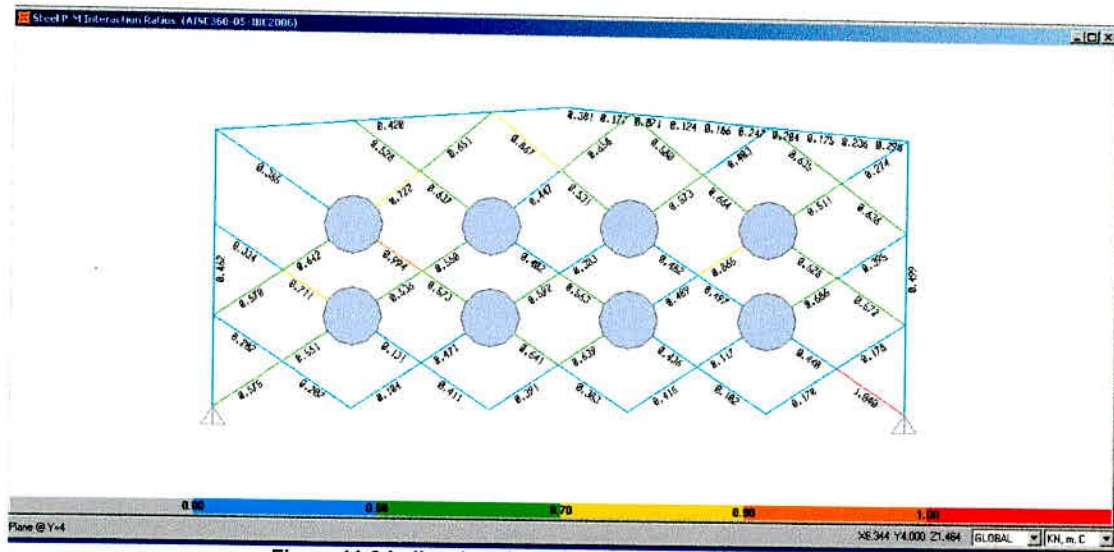


Figura 11-3 Índice de sobreesfuerzos elementos eje 2

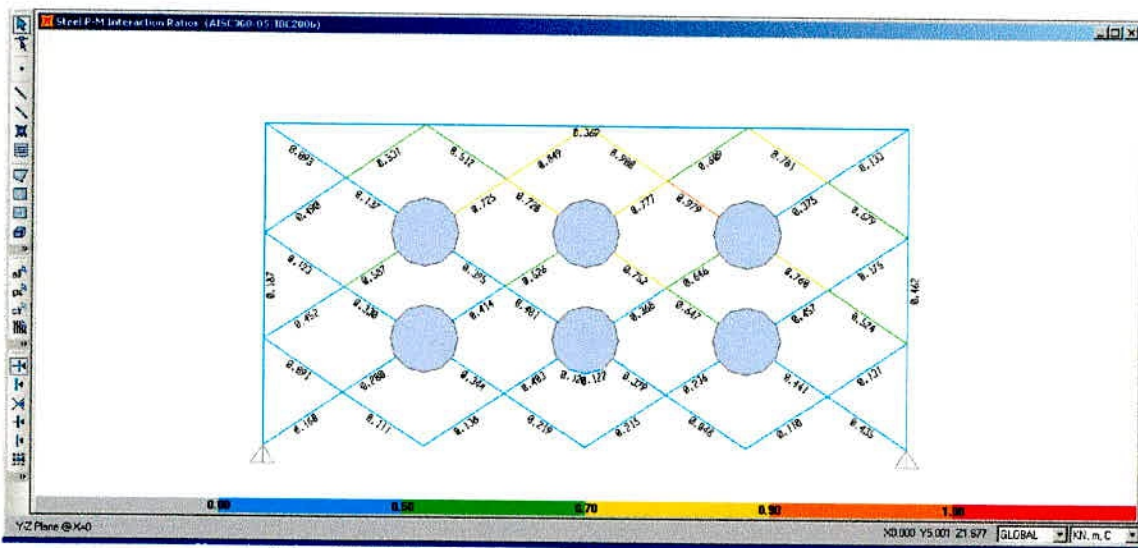


Figura 11-4 Índice de sobreesfuerzos elementos eje A

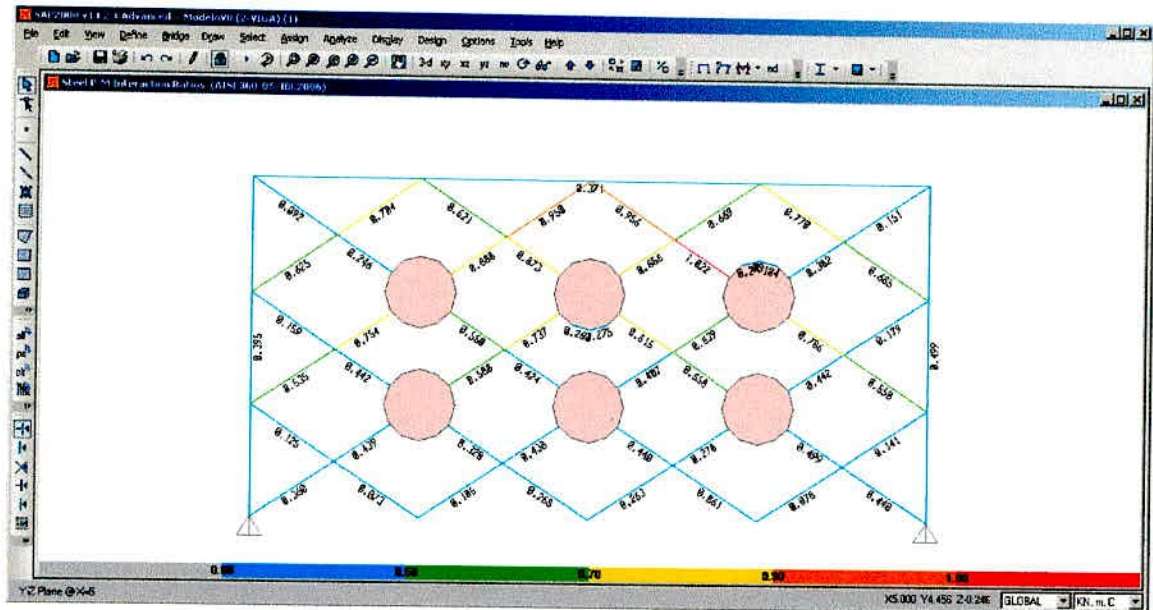


Figura 11-5 Índice de sobreesfuerzos elementos eje B

12. DISEÑO DE APOYOS

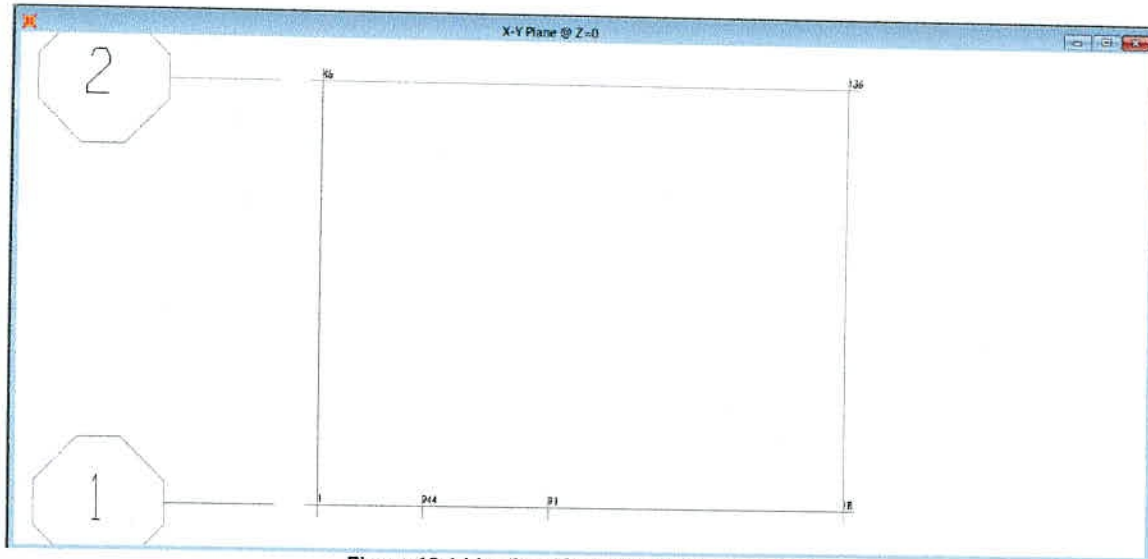


Figura 12-1 Identificación nudos de cimentación

Joint Reactions					
Joint	OutputCase	CaseType	F1	F2	F3
Text	Text	Text	KN	KN	KN
1	DEAD	LinStatic	0.178	2.421	5.814
1	L	LinStatic	0.633	12.097	17.873
10	DEAD	LinStatic	-1.973	3.266	10.85
10	L	LinStatic	-9.023	17.009	41.351
45	DEAD	LinStatic	7.475	-3.737	16.914
45	L	LinStatic	35.983	-19.473	69.671
91	DEAD	LinStatic	1.135	0.593	11.609
91	L	LinStatic	4.819	3.422	50.321
136	DEAD	LinStatic	-7.447	-3.746	16.829
136	L	LinStatic	-36.03	-19.927	69.864
944	DEAD	LinStatic	0.632	1.203	7.379
944	L	LinStatic	3.617	6.872	28.165

APOYOS DE NEOPRENO*Parametros de diseño:*

Luz =	
R_{cm} =	1.98 ton
R_{cv} (+ impacto) =	6.98 ton
R_{cm+cv} =	8.96 ton
Dureza =	60
G =	9.10 kg/cm ²
β capa interna =	1.00
β capa externa =	1.40
Modulo de Elasticidad e Inercia	
E viga =	kg/cm ²
I viga =	m ⁴
Temperatura	
Min =	23 °C
Max =	35 °C
Δt =	12 °C
Δt Δretracción y Fraguado =	0 °C
Δt ΔCreep & Shrinkage =	°C
$\Sigma \Delta t$ =	°C
Deformación horizontal de la Viga	
$\Delta TOTAL$ =	1.00 cm

Características de la almohadilla

h_R capa interior neopreno =	1.270 cm	1/2 in
h_R capa exterior neopreno =	1.270 cm	1/2 in
espesor de lámina =	0.635 cm	1/4 in
h_{rt} =	3.810 cm	1 1/2 in
T mín =	3.49 cm	1 3/8 in
T máx =	10.00 cm	4 in
Espesor total T =	5.08 cm	2 in
(3 capas de neopreno + 2 capas de ref.)		

Area Requerida Neopreno

Arequerida =	128.0 cm ²
usar A =	2500 cm ²

Dimensiones de apoyo y estabilidad

L =	50 cm	OK
W =	50 cm	OK
A =	2500 cm ²	OK

Factor de forma

	S / β	
S capa interna =	9.84	9.84 OK
S. capa externa =	9.84	7.03 OK

Chequeo a compresión

σ_{DL} =	0.79 kg/cm ²	
$\sigma_{C,TL}$ =	3.58 kg/cm ²	< 64 kg/cm ² OK (C.10.2.4.1.1 - i)
		< 70 kg/cm ² OK (C.10.2.4.1.1 - ii)

Evaluación a rotación del elastómero

ϵ =	0.0320	(A.10.4.1.2B)	
ΔC =	0.122 cm		Kv = 7349 ton/m
$\theta_{máx}$ =	0.0049 rad		E neopreno ref= 149 kg/cm ²
θ =	0.0020 rad	OK	

Chequeo a fuerza cortante

$E_{NEOPRENO}$ =	9.10 kg/cm ²	
Max.F.C. =	11.38 ton	
F. Cortante, H =	5.97 ton	OK
$\Delta TOTAL$ =	1.00 cm	OK

Refuerzo

Acero ASTM G50 F_s =	1900 kg/cm ²	
h_s =	0.64 cm	
$F_s \cdot h_s$ =	1207 kg/cm	
$300h_R$ =	381 kg/cm	OK

Rigidez a fuerzas cortantes

K_h =	1194.2 ton/m	(Para $\Delta s = h_{rt}/2$)
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$$H_{bu} = \mu P_u$$

Determinación de la rigidez de la almohadilla de neopreno:

L =	50.00	cm	
W =	50.00	cm	
v =	0.50		
G elastómero =	9.10	kg/cm ²	
E elastómero =	27.29	kg/cm ²	
E neopreno ref =	149.33	kg/cm ²	5.00 E_ref/E_elast
Peso neop ref =	27.94	kg	

Rigidez lateral del neopreno

$$K_H = k_{eff} = \frac{G_{eff} A}{H_r}$$

G =	9.10	kg/cm ²
A =	2,500.00	cm ²
Hr =	3.81	cm
Hh =	5,971.13	kg/cm
	597.11	ton/m

Rigidez vertical del neopreno

$$K_V = \frac{E_c A}{H}$$

Ec =	149.33	kg/cm ²
H =	5.08	cm
Kv =	73,490.81	kg/cm
	7,349.08	ton/m

Rigidez rotacional del neopreno

$$K_\theta = \frac{EI}{H_r}$$

Alrededor - eje de apoyo		
E =	149.33	kg/cm ²
I =	520,833.33	cm ⁴
Kθ =	20,414,114.90	kg-cm/rad
	200	ton-m/rad

Alrededor - eje de viga		
E =	149.33	kg/cm ²
I =	520,833.33	cm ⁴
Kθ =	20,414,114.90	kg-cm/rad
	200	ton-m/rad

Tipo: MultiLinear Elastic

13. CONCLUSIONES

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- Las secciones funcionan bajo las cargas contempladas en este documento; cualquier carga adicional o mayor a la estipulada en estas memorias de cálculo, deberá ser consultada al ingeniero calculista para que este emita su concepto.
- La estructura presenta elementos que trabajan perfiles que trabajan al 100% en condiciones de esfuerzos últimos. La envolvente de combinaciones de carga tiene un factor de mayoración de 5.
- El diseño lo está gobernando la combinación de cargas verticales; por desplazamientos horizontales la estructura trabaja de manera adecuada ya que su deriva (desplazamientos relativos) están por debajo del 10%.
- Los elementos principales (vigas y columnas) trabajan de manera adecuada para las cargas tan altas a las que se ve sometida la estructura.
- Las solicitaciones de cargas a las cuales se sometió la estructura en su diseño, equivale a 33 veces la carga (CM+CV) que se presenta en el diseño de una estructura de vivienda convencional, acorde con la NSR10.

ANEXO

ANEXO 1

DATOS DE ENTRADA

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Table: Active Degrees of Freedom

UX	UY	UZ	RX	RY	RZ
Yes	Yes	Yes	Yes	Yes	Yes

Table: Analysis Options

Solver	SolverProc	Force32Bit	StiffCase	GeomMod
Advanced	Auto	No	None	No

Table: Area Loads - Uniform To Frame

Area	LoadPat	CoordSys	Dir	UnifLoad KN/m2	DistType
2	DEAD	GLOBAL	Gravity	2.00	Two way
2	L	GLOBAL	Gravity	20.00	Two way
3	DEAD	GLOBAL	Gravity	2.00	Two way
3	L	GLOBAL	Gravity	20.00	Two way
4	DEAD	GLOBAL	Gravity	2.00	Two way
4	L	GLOBAL	Gravity	20.00	Two way
5	DEAD	GLOBAL	Gravity	2.00	Two way
5	L	GLOBAL	Gravity	20.00	Two way
6	DEAD	GLOBAL	Gravity	2.00	Two way
6	L	GLOBAL	Gravity	20.00	Two way
7	DEAD	GLOBAL	Gravity	2.00	Two way
7	L	GLOBAL	Gravity	20.00	Two way

Table: Case - Static 1 - Load Assignments

Case	LoadType	LoadName	LoadSF
PP	Load pattern	DEAD	0.700000
L	Load pattern	L	0.700000

Table: Combination Definitions, Part 1 of 3

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor	SteelDesign
COMB1	Linear Add	No	Linear Static	PP	1.400000	No
COMB2	Linear Add	No	Linear Static	PP	1.200000	No
COMB2			Linear Static	L	1.600000	
COMB3	Linear Add	No	Linear Static	PP	1.200000	No
COMB3			Linear Static	L	1.000000	
COMB3			Response Spectrum	EX	0.140000	
COMB4	Linear Add	No	Linear Static	EY	0.042000	
COMB4			Linear Static	PP	1.200000	No
COMB4			Linear Static	L	1.000000	
COMB4			Response Spectrum	EX	0.042000	
COMB4			Response Spectrum	EY	0.140000	
COMB5	Linear Add	No	Linear Static	PP	0.900000	No
COMB5			Response Spectrum	EX	0.140000	
COMB5			Response Spectrum	EY	0.042000	
COMB6	Linear Add	No	Linear Static	PP	0.900000	No
COMB6			Response Spectrum	EX	0.042000	
COMB6			Response Spectrum	EY	0.140000	
COMB7	Envelope	No	Response Combo	COMB1	1.000000	No
COMB7			Response Combo	COMB2	1.000000	
COMB7			Response Combo	COMB3	1.000000	
COMB7			Response Combo	COMB4	1.000000	
COMB7			Response Combo	COMB5	1.000000	
COMB7			Response Combo	COMB6	1.000000	
DERX	Linear Add	No	Linear Static	PP	1.000000	No
DERX			Linear Static	L	1.000000	
DERX			Response Spectrum	EX	1.000000	
DERX			Response Spectrum	EY	0.300000	
DERY	Linear Add	No	Linear Static	PP	1.000000	No
DERY			Linear Static	L	1.000000	
DERY			Response Spectrum	EY	1.000000	
DERY			Response Spectrum	EX	0.300000	
DERYUMBRAL	Linear Add	No	Linear Static	PP	1.000000	No
DERYUMBRAL			Linear Static	L	1.000000	
DERYUMBRAL			Response Spectrum	EUMBRALX	1.000000	
DERYUMBRAL			Response Spectrum	EUMBRALY	0.300000	
DERYUMBRAL	Linear Add	No	Linear Static	PP	1.000000	No
DERYUMBRAL			Linear Static	L	1.000000	
DERYUMBRAL			Response Spectrum	EUMBRALY	1.000000	
DERYUMBRAL			Response Spectrum	EUMBRALX	0.300000	
ENV	Envelope	No	Response Combo	COMB1	5.000000	No
ENV			Response Combo	COMB2	5.000000	
ENV			Response Combo	COMB3	5.000000	
ENV			Response Combo	COMB4	5.000000	

ENV			Response Combo	COMB5	5.000000	
ENV			Response Combo	COMB6	5.000000	
ENV			Response Combo	COMB7	5.000000	
CIM	Linear Add	No	Linear Static	L	1.000000	No
CIM			Linear Static	PP	1.000000	

Table: Combination Definitions, Part 2 of 3

ComboName	CaseName	ConcDesign	AlumDesign	ColdDesign	GUID
COMB1	PP	No	No	No	
COMB2	PP	No	No	No	
COMB2	L				
COMB3	PP	No	No	No	
COMB3	L				
COMB3	EX				
COMB3	EY				
COMB4	PP	No	No	No	
COMB4	L				
COMB4	EX				
COMB4	EY				
COMB5	PP	No	No	No	
COMB5	EX				
COMB5	EY				
COMB6	PP	No	No	No	
COMB6	EX				
COMB6	EY				
COMB7	COMB1	No	No	No	
COMB7	COMB2				
COMB7	COMB3				
COMB7	COMB4				
COMB7	COMB5				
COMB7	COMB6				
DERX	PP	No	No	No	
DERX	L				
DERX	EX				
DERX	EY				
DERY	PP	No	No	No	
DERY	L				
DERY	EY				
DERY	EX				
DERXUMBRAL	PP	No	No	No	
DERXUMBRAL	L				
DERXUMBRAL	EUMBRALX				
DERXUMBRAL	EUMBRALY				
DERYUMBRAL	PP	No	No	No	
DERYUMBRAL	L				
DERYUMBRAL	EUMBRALY				
DERYUMBRAL	EUMBRALX				
ENV	COMB1	No	No	No	
ENV	COMB2				
ENV	COMB3				
ENV	COMB4				
ENV	COMB5				
ENV	COMB6				
ENV	COMB7				
CIM	L	No	No	No	
CIM	PP				

Table: Combination Definitions, Part 3 of 3

ComboName	CaseName	Notes
COMB1	PP	
COMB2	PP	
COMB2	L	
COMB3	PP	
COMB3	L	
COMB3	EX	
COMB3	EY	
COMB4	PP	
COMB4	L	
COMB4	EX	
COMB4	EY	
COMB5	PP	
COMB5	EX	
COMB5	EY	
COMB6	PP	
COMB6	EX	
COMB6	EY	
COMB7	COMB1	
COMB7	COMB2	
COMB7	COMB3	
COMB7	COMB4	
COMB7	COMB5	
COMB7	COMB6	
DERX	PP	
DERX	L	
DERX	EX	
DERX	EY	
DERY	PP	

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DERY	L
DERY	EY
DERY	EX
DERXUMBRAL	PP
DERXUMBRAL	L
DERXUMBRAL	EUMBRALX
DERXUMBRAL	EUMBRALY
DERYUMBRAL	PP
DERYUMBRAL	L
DERYUMBRAL	EUMBRALY
DERYUMBRAL	EUMBRALX
ENV	COMB1
ENV	COMB2
ENV	COMB3
ENV	COMB4
ENV	COMB5
ENV	COMB6
ENV	COMB7
CIM	L
CIM	PP

Table: Frame Auto Mesh Assignments

Frame	AutoMesh	AtJoints	AtFrames	NumSegments	MaxLength m	MaxDegrees Degrees
1	Yes	Yes	No	0	0.000000	0.000
2	Yes	Yes	No	0	0.000000	0.000
3	Yes	Yes	No	0	0.000000	0.000
4	Yes	Yes	No	0	0.000000	0.000
5	Yes	Yes	No	0	0.000000	0.000
6	Yes	Yes	No	0	0.000000	0.000
7	Yes	Yes	No	0	0.000000	0.000
8	Yes	Yes	No	0	0.000000	0.000
9	Yes	Yes	No	0	0.000000	0.000
10	Yes	Yes	No	0	0.000000	0.000
11	Yes	Yes	No	0	0.000000	0.000
12	Yes	Yes	No	0	0.000000	0.000
16	Yes	Yes	No	0	0.000000	0.000
18	Yes	Yes	No	0	0.000000	0.000
20	Yes	Yes	No	0	0.000000	0.000
21	Yes	Yes	No	0	0.000000	0.000
23	Yes	Yes	No	0	0.000000	0.000
25	Yes	Yes	No	0	0.000000	0.000
45	Yes	Yes	No	0	0.000000	0.000
51	Yes	Yes	No	0	0.000000	0.000
54	Yes	Yes	No	0	0.000000	0.000
62	Yes	Yes	No	0	0.000000	0.000
63	Yes	Yes	No	0	0.000000	0.000
66	Yes	Yes	No	0	0.000000	0.000
69	Yes	Yes	No	0	0.000000	0.000
72	Yes	Yes	No	0	0.000000	0.000
73	Yes	Yes	No	0	0.000000	0.000
75	Yes	Yes	No	0	0.000000	0.000
78	Yes	Yes	No	0	0.000000	0.000
79	Yes	Yes	No	0	0.000000	0.000
80	Yes	Yes	No	0	0.000000	0.000
81	Yes	Yes	No	0	0.000000	0.000
84	Yes	Yes	No	0	0.000000	0.000
86	Yes	Yes	No	0	0.000000	0.000
87	Yes	Yes	No	0	0.000000	0.000
90	Yes	Yes	No	0	0.000000	0.000
91	Yes	Yes	No	0	0.000000	0.000
92	Yes	Yes	No	0	0.000000	0.000
93	Yes	Yes	No	0	0.000000	0.000
96	Yes	Yes	No	0	0.000000	0.000
97	Yes	Yes	No	0	0.000000	0.000
99	Yes	Yes	No	0	0.000000	0.000
100	Yes	Yes	No	0	0.000000	0.000
101	Yes	Yes	No	0	0.000000	0.000
102	Yes	Yes	No	0	0.000000	0.000
103	Yes	Yes	No	0	0.000000	0.000
104	Yes	Yes	No	0	0.000000	0.000
105	Yes	Yes	No	0	0.000000	0.000
106	Yes	Yes	No	0	0.000000	0.000
107	Yes	Yes	No	0	0.000000	0.000
108	Yes	Yes	No	0	0.000000	0.000
109	Yes	Yes	No	0	0.000000	0.000
110	Yes	Yes	No	0	0.000000	0.000
111	Yes	Yes	No	0	0.000000	0.000
114	Yes	Yes	No	0	0.000000	0.000
115	Yes	Yes	No	0	0.000000	0.000
116	Yes	Yes	No	0	0.000000	0.000
117	Yes	Yes	No	0	0.000000	0.000
120	Yes	Yes	No	0	0.000000	0.000
121	Yes	Yes	No	0	0.000000	0.000
124	Yes	Yes	No	0	0.000000	0.000
125	Yes	Yes	No	0	0.000000	0.000
126	Yes	Yes	No	0	0.000000	0.000
127	Yes	Yes	No	0	0.000000	0.000
130	Yes	Yes	No	0	0.000000	0.000
131	Yes	Yes	No	0	0.000000	0.000
132	Yes	Yes	No	0	0.000000	0.000
133	Yes	Yes	No	0	0.000000	0.000

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578	Yes	Yes	No	0	0.000000	0.000
581	Yes	Yes	No	0	0.000000	0.000
582	Yes	Yes	No	0	0.000000	0.000
590	Yes	Yes	No	0	0.000000	0.000
591	Yes	Yes	No	0	0.000000	0.000
592	Yes	Yes	No	0	0.000000	0.000
593	Yes	Yes	No	0	0.000000	0.000
596	Yes	Yes	No	0	0.000000	0.000
597	Yes	Yes	No	0	0.000000	0.000
600	Yes	Yes	No	0	0.000000	0.000
601	Yes	Yes	No	0	0.000000	0.000
602	Yes	Yes	No	0	0.000000	0.000
603	Yes	Yes	No	0	0.000000	0.000
606	Yes	Yes	No	0	0.000000	0.000
607	Yes	Yes	No	0	0.000000	0.000
608	Yes	Yes	No	0	0.000000	0.000
609	Yes	Yes	No	0	0.000000	0.000
610	Yes	Yes	No	0	0.000000	0.000
611	Yes	Yes	No	0	0.000000	0.000
612	Yes	Yes	No	0	0.000000	0.000
613	Yes	Yes	No	0	0.000000	0.000
616	Yes	Yes	No	0	0.000000	0.000
617	Yes	Yes	No	0	0.000000	0.000
618	Yes	Yes	No	0	0.000000	0.000
619	Yes	Yes	No	0	0.000000	0.000
620	Yes	Yes	No	0	0.000000	0.000
621	Yes	Yes	No	0	0.000000	0.000
622	Yes	Yes	No	0	0.000000	0.000
623	Yes	Yes	No	0	0.000000	0.000
667	Yes	Yes	No	0	0.000000	0.000
668	Yes	Yes	No	0	0.000000	0.000
800	Yes	Yes	No	0	0.000000	0.000
930	Yes	Yes	No	0	0.000000	0.000
941	Yes	Yes	No	0	0.000000	0.000
1234	Yes	Yes	No	0	0.000000	0.000
1235	Yes	Yes	No	0	0.000000	0.000
1333	Yes	Yes	No	0	0.000000	0.000
1334	Yes	Yes	No	0	0.000000	0.000
1401	Yes	Yes	No	0	0.000000	0.000
1565	Yes	Yes	No	0	0.000000	0.000
1569	Yes	Yes	No	0	0.000000	0.000
1576	Yes	Yes	No	0	0.000000	0.000
1577	Yes	Yes	No	0	0.000000	0.000
1578	Yes	Yes	No	0	0.000000	0.000
1579	Yes	Yes	No	0	0.000000	0.000
1580	Yes	Yes	No	0	0.000000	0.000
1581	Yes	Yes	No	0	0.000000	0.000
1582	Yes	Yes	No	0	0.000000	0.000
1583	Yes	Yes	No	0	0.000000	0.000
1584	Yes	Yes	No	0	0.000000	0.000
1585	Yes	Yes	No	0	0.000000	0.000
1586	Yes	Yes	No	0	0.000000	0.000
1588	Yes	Yes	No	0	0.000000	0.000
1590	Yes	Yes	No	0	0.000000	0.000
1592	Yes	Yes	No	0	0.000000	0.000
1594	Yes	Yes	No	0	0.000000	0.000
1596	Yes	Yes	No	0	0.000000	0.000
1597	Yes	Yes	No	0	0.000000	0.000
1607	Yes	Yes	No	0	0.000000	0.000
1620	Yes	Yes	No	0	0.000000	0.000
1622	Yes	Yes	No	0	0.000000	0.000
1627	Yes	Yes	No	0	0.000000	0.000
1634	Yes	Yes	No	0	0.000000	0.000
1638	Yes	Yes	No	0	0.000000	0.000

Table: Frame Output Station Assignments

Frame	StationType	MinNumSta	MaxStaSpog	AddAtElmInt	AddAtPtLoad
				m	
1	MinNumSta	3		Yes	Yes
2	MinNumSta	3		Yes	Yes
3	MinNumSta	3		Yes	Yes
4	MinNumSta	3		Yes	Yes
5	MinNumSta	3		Yes	Yes
6	MinNumSta	3		Yes	Yes
7	MinNumSta	3		Yes	Yes
8	MinNumSta	3		Yes	Yes
9	MinNumSta	3		Yes	Yes
10	MinNumSta	3		Yes	Yes
11	MinNumSta	3		Yes	Yes
12	MinNumSta	3		Yes	Yes
16	MinNumSta	3		Yes	Yes
18	MinNumSta	3		Yes	Yes
20	MinNumSta	3		Yes	Yes
21	MinNumSta	3		Yes	Yes
23	MinNumSta	3		Yes	Yes
25	MinNumSta	3		Yes	Yes
45	MinNumSta	3		Yes	Yes
51	MinNumSta	3		Yes	Yes
54	MaxStaSpog		0.50000	Yes	Yes
62	MaxStaSpog		0.50000	Yes	Yes
63	MinNumSta	3		Yes	Yes
66	MinNumSta	3		Yes	Yes

20



69	MinNumSta	3		Yes	Yes
72	MinNumSta	3		Yes	Yes
73	MaxStaSpccg		0.50000	Yes	Yes
75	MaxStaSpccg		0.50000	Yes	Yes
78	MaxStaSpccg		0.50000	Yes	Yes
79	MaxStaSpccg		0.50000	Yes	Yes
80	MaxStaSpccg		0.50000	Yes	Yes
81	MinNumSta	3		Yes	Yes
84	MinNumSta	3		Yes	Yes
86	MinNumSta	3		Yes	Yes
87	MinNumSta	3		Yes	Yes
90	MaxStaSpccg		0.50000	Yes	Yes
91	MaxStaSpccg		0.50000	Yes	Yes
92	MinNumSta	3		Yes	Yes
93	MinNumSta	3		Yes	Yes
96	MinNumSta	3		Yes	Yes
97	MinNumSta	3		Yes	Yes
99	MinNumSta	3		Yes	Yes
100	MinNumSta	3		Yes	Yes
101	MinNumSta	3		Yes	Yes
102	MinNumSta	3		Yes	Yes
103	MinNumSta	3		Yes	Yes
104	MinNumSta	3		Yes	Yes
105	MinNumSta	3		Yes	Yes
106	MinNumSta	3		Yes	Yes
107	MinNumSta	3		Yes	Yes
108	MinNumSta	3		Yes	Yes
109	MinNumSta	3		Yes	Yes
110	MinNumSta	3		Yes	Yes
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114	MinNumSta	3		Yes	Yes
115	MinNumSta	3		Yes	Yes
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117	MinNumSta	3		Yes	Yes
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124	MinNumSta	3		Yes	Yes
125	MinNumSta	3		Yes	Yes
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130	MinNumSta	3		Yes	Yes
131	MinNumSta	3		Yes	Yes
132	MinNumSta	3		Yes	Yes
133	MinNumSta	3		Yes	Yes
136	MinNumSta	3		Yes	Yes
137	MinNumSta	3		Yes	Yes
140	MinNumSta	3		Yes	Yes
141	MinNumSta	3		Yes	Yes
142	MinNumSta	3		Yes	Yes
143	MinNumSta	3		Yes	Yes
146	MinNumSta	3		Yes	Yes
147	MinNumSta	3		Yes	Yes
148	MinNumSta	3		Yes	Yes
149	MaxStaSpccg		0.50000	Yes	Yes
150	MaxStaSpccg		0.50000	Yes	Yes
151	MinNumSta	3		Yes	Yes
152	MinNumSta	3		Yes	Yes
153	MinNumSta	3		Yes	Yes
154	MinNumSta	3		Yes	Yes
155	MinNumSta	3		Yes	Yes
156	MinNumSta	3		Yes	Yes
157	MinNumSta	3		Yes	Yes
158	MaxStaSpccg		0.50000	Yes	Yes
160	MinNumSta	3		Yes	Yes
161	MaxStaSpccg		0.50000	Yes	Yes
162	MinNumSta	3		Yes	Yes
163	MinNumSta	3		Yes	Yes
165	MinNumSta	3		Yes	Yes
166	MinNumSta	3		Yes	Yes
167	MinNumSta	3		Yes	Yes
168	MinNumSta	3		Yes	Yes
169	MinNumSta	3		Yes	Yes
170	MinNumSta	3		Yes	Yes
171	MinNumSta	3		Yes	Yes
172	MinNumSta	3		Yes	Yes
174	MinNumSta	3		Yes	Yes
175	MinNumSta	3		Yes	Yes
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179	MinNumSta	3		Yes	Yes
180	MinNumSta	3		Yes	Yes
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189	MinNumSta	3		Yes	Yes
190	MinNumSta	3		Yes	Yes
191	MinNumSta	3		Yes	Yes
192	MinNumSta	3		Yes	Yes
193	MinNumSta	3		Yes	Yes
194	MinNumSta	3		Yes	Yes
195	MinNumSta	3		Yes	Yes

21

196	MinNumSta	3		Yes	Yes
213	MinNumSta	3		Yes	Yes
214	MinNumSta	3		Yes	Yes
215	MinNumSta	3		Yes	Yes
216	MinNumSta	3		Yes	Yes
217	MinNumSta	3		Yes	Yes
218	MinNumSta	3		Yes	Yes
219	MinNumSta	3		Yes	Yes
220	MinNumSta	3		Yes	Yes
233	MaxStaSpag		0.50000	Yes	Yes
240	MinNumSta	3		Yes	Yes
241	MinNumSta	3		Yes	Yes
242	MinNumSta	3		Yes	Yes
243	MinNumSta	3		Yes	Yes
254	MinNumSta	3		Yes	Yes
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258	MinNumSta	3		Yes	Yes
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274	MinNumSta	3		Yes	Yes
275	MinNumSta	3		Yes	Yes
278	MinNumSta	3		Yes	Yes
279	MinNumSta	2		Yes	Yes
282	MinNumSta	3		Yes	Yes
283	MinNumSta	3		Yes	Yes
284	MinNumSta	3		Yes	Yes
285	MinNumSta	3		Yes	Yes
288	MinNumSta	3		Yes	Yes
289	MinNumSta	3		Yes	Yes
290	MinNumSta	3		Yes	Yes
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326	MinNumSta	3		Yes	Yes
327	MinNumSta	3		Yes	Yes
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329	MinNumSta	3		Yes	Yes
330	MinNumSta	3		Yes	Yes
332	MinNumSta	3		Yes	Yes
333	MinNumSta	3		Yes	Yes
334	MinNumSta	3		Yes	Yes
335	MinNumSta	3		Yes	Yes
338	MinNumSta	3		Yes	Yes
339	MinNumSta	3		Yes	Yes
341	MinNumSta	3		Yes	Yes
342	MinNumSta	3		Yes	Yes
363	MaxStaSpag		0.50000	Yes	Yes
415	MinNumSta	3		Yes	Yes
416	MinNumSta	3		Yes	Yes
419	MinNumSta	3		Yes	Yes
420	MinNumSta	3		Yes	Yes
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429	MinNumSta	3		Yes	Yes
430	MinNumSta	3		Yes	Yes
433	MinNumSta	3		Yes	Yes
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435	MinNumSta	3		Yes	Yes
436	MinNumSta	3		Yes	Yes
439	MinNumSta	3		Yes	Yes
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441	MinNumSta	3		Yes	Yes
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445	MinNumSta	3		Yes	Yes
446	MinNumSta	3		Yes	Yes
449	MinNumSta	3		Yes	Yes
450	MinNumSta	3		Yes	Yes
451	MinNumSta	3		Yes	Yes

452	MinNumSta	3		Yes	Yes
455	MinNumSta	3		Yes	Yes
456	MinNumSta	3		Yes	Yes
459	MinNumSta	3		Yes	Yes
460	MinNumSta	3		Yes	Yes
461	MinNumSta	3		Yes	Yes
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471	MinNumSta	3		Yes	Yes
472	MinNumSta	3		Yes	Yes
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479	MinNumSta	3		Yes	Yes
480	MinNumSta	3		Yes	Yes
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483	MinNumSta	3		Yes	Yes
484	MinNumSta	3		Yes	Yes
485	MinNumSta	3		Yes	Yes
529	MinNumSta	3		Yes	Yes
530	MinNumSta	3		Yes	Yes
543	MinNumSta	3		Yes	Yes
544	MinNumSta	3		Yes	Yes
547	MinNumSta	3		Yes	Yes
548	MinNumSta	3		Yes	Yes
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558	MinNumSta	3		Yes	Yes
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562	MinNumSta	3		Yes	Yes
565	MinNumSta	3		Yes	Yes
566	MinNumSta	3		Yes	Yes
567	MinNumSta	3		Yes	Yes
568	MinNumSta	3		Yes	Yes
571	MinNumSta	3		Yes	Yes
572	MinNumSta	3		Yes	Yes
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581	MinNumSta	3		Yes	Yes
582	MinNumSta	3		Yes	Yes
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596	MinNumSta	3		Yes	Yes
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600	MinNumSta	3		Yes	Yes
601	MinNumSta	3		Yes	Yes
602	MinNumSta	3		Yes	Yes
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606	MinNumSta	3		Yes	Yes
607	MinNumSta	3		Yes	Yes
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613	MinNumSta	3		Yes	Yes
616	MinNumSta	3		Yes	Yes
617	MinNumSta	3		Yes	Yes
618	MinNumSta	3		Yes	Yes
619	MinNumSta	3		Yes	Yes
620	MinNumSta	3		Yes	Yes
621	MinNumSta	3		Yes	Yes
622	MinNumSta	3		Yes	Yes
623	MinNumSta	3		Yes	Yes
667	MinNumSta	3		Yes	Yes
668	MinNumSta	3		Yes	Yes
800	MaxStaSpccg		0.50000	Yes	Yes
930	MaxStaSpccg		0.50000	Yes	Yes
941	MaxStaSpccg		0.50000	Yes	Yes
1234	MinNumSta	3		Yes	Yes
1235	MinNumSta	3		Yes	Yes
1333	MinNumSta	3		Yes	Yes
1334	MinNumSta	3		Yes	Yes
1401	MinNumSta	3		Yes	Yes
1565	MaxStaSpccg		0.50000	Yes	Yes
1569	MaxStaSpccg		0.50000	Yes	Yes
1576	MaxStaSpccg		0.50000	Yes	Yes
1577	MaxStaSpccg		0.50000	Yes	Yes
1578	MaxStaSpccg		0.50000	Yes	Yes
1579	MaxStaSpccg		0.50000	Yes	Yes
1580	MaxStaSpccg		0.50000	Yes	Yes
1581	MaxStaSpccg		0.50000	Yes	Yes
1582	MaxStaSpccg		0.50000	Yes	Yes
1583	MaxStaSpccg		0.50000	Yes	Yes
1584	MinNumSta	3		Yes	Yes
1585	MaxStaSpccg		0.50000	Yes	Yes

1586	MinNumSta	3		Yes	Yes
1588	MinNumSta	3		Yes	Yes
1590	MaxStaSpceg		0.50000	Yes	Yes
1592	MinNumSta	3		Yes	Yes
1594	MinNumSta	3		Yes	Yes
1596	MaxStaSpceg		0.50000	Yes	Yes
1597	MinNumSta	3		Yes	Yes
1607	MaxStaSpceg		0.50000	Yes	Yes
1620	MinNumSta	3		Yes	Yes
1622	MaxStaSpceg		0.50000	Yes	Yes
1627	MaxStaSpceg		0.50000	Yes	Yes
1634	MinNumSta	3		Yes	Yes
1638	MaxStaSpceg		0.50000	Yes	Yes

Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
1	Box/Tube	N.A.	PT1	PT1	Default
2	Box/Tube	N.A.	PT2	PT2	Default
3	Box/Tube	N.A.	PT2	PT2	Default
4	Box/Tube	N.A.	PT1	PT1	Default
5	Box/Tube	N.A.	PT1	PT1	Default
6	Box/Tube	N.A.	PT1	PT1	Default
7	Box/Tube	N.A.	PT1	PT1	Default
8	Box/Tube	N.A.	PT1	PT1	Default
9	Box/Tube	N.A.	PT1	PT1	Default
10	Box/Tube	N.A.	PT1	PT1	Default
11	Box/Tube	N.A.	PT1	PT1	Default
12	Box/Tube	N.A.	PT1	PT1	Default
16	Box/Tube	N.A.	PT3A	PT3A	Default
18	Box/Tube	N.A.	PT3	PT3	Default
20	Box/Tube	N.A.	PT3	PT3	Default
21	Box/Tube	N.A.	PT3	PT3	Default
23	Box/Tube	N.A.	PT3	PT3	Default
25	Box/Tube	N.A.	PT3	PT3	Default
45	Box/Tube	N.A.	PT2	PT2	Default
51	Box/Tube	N.A.	PT3A	PT3A	Default
54	Box/Tube	N.A.	PT3A	PT3A	Default
62	Box/Tube	N.A.	PT3	PT3	Default
63	Box/Tube	N.A.	PT3A	PT3A	Default
66	Box/Tube	N.A.	PT3A	PT3A	Default
69	Box/Tube	N.A.	PT3	PT3	Default
72	Box/Tube	N.A.	PT3	PT3	Default
73	Box/Tube	N.A.	PT3	PT3	Default
75	Box/Tube	N.A.	PT3	PT3	Default
78	Box/Tube	N.A.	PT3	PT3	Default
79	Box/Tube	N.A.	PT3	PT3	Default
80	Box/Tube	N.A.	PT3	PT3	Default
81	Box/Tube	N.A.	PT3	PT3	Default
84	Box/Tube	N.A.	PT3	PT3	Default
86	Box/Tube	N.A.	PT3	PT3	Default
87	Box/Tube	N.A.	PT3	PT3	Default
90	Box/Tube	N.A.	PT3	PT3	Default
91	Box/Tube	N.A.	PT3	PT3	Default
92	Box/Tube	N.A.	PT3	PT3	Default
93	Box/Tube	N.A.	PT3	PT3	Default
96	Box/Tube	N.A.	PT3	PT3	Default
97	Box/Tube	N.A.	PT3	PT3	Default
99	Box/Tube	N.A.	PT3	PT3	Default
100	Box/Tube	N.A.	PT3A	PT3A	Default
101	Box/Tube	N.A.	PT3	PT3	Default
102	Box/Tube	N.A.	PT3	PT3	Default
103	Box/Tube	N.A.	PT3A	PT3A	Default
104	Box/Tube	N.A.	PT3A	PT3A	Default
105	Box/Tube	N.A.	PT3A	PT3A	Default
106	Box/Tube	N.A.	PT3	PT3	Default
107	Box/Tube	N.A.	PT3	PT3	Default
108	Box/Tube	N.A.	PT3	PT3	Default
109	Box/Tube	N.A.	PT3	PT3	Default
110	Box/Tube	N.A.	PT3A	PT3A	Default
111	Box/Tube	N.A.	PT3	PT3	Default
114	Box/Tube	N.A.	PT3	PT3	Default
115	Box/Tube	N.A.	PT3	PT3	Default
116	Box/Tube	N.A.	PT3A	PT3A	Default
117	Box/Tube	N.A.	PT3	PT3	Default
120	Box/Tube	N.A.	PT3	PT3	Default
121	Box/Tube	N.A.	PT3	PT3	Default
124	Box/Tube	N.A.	PT3	PT3	Default
125	Box/Tube	N.A.	PT3	PT3	Default
126	Box/Tube	N.A.	PT3	PT3	Default
127	Box/Tube	N.A.	PT3	PT3	Default
130	Box/Tube	N.A.	PT3	PT3	Default
131	Box/Tube	N.A.	PT3	PT3	Default
132	Box/Tube	N.A.	PT3	PT3	Default
133	Box/Tube	N.A.	PT3	PT3	Default
136	Box/Tube	N.A.	PT3	PT3	Default
137	Box/Tube	N.A.	PT3	PT3	Default
140	Box/Tube	N.A.	PT3	PT3	Default
141	Box/Tube	N.A.	PT3A	PT3A	Default
142	Box/Tube	N.A.	PT3	PT3	Default
143	Box/Tube	N.A.	PT3	PT3	Default
146	Box/Tube	N.A.	PT3	PT3	Default

596	Box/Tube	N.A.	PT3	PT3	Default
597	Box/Tube	N.A.	PT3	PT3	Default
600	Box/Tube	N.A.	PT3	PT3	Default
601	Box/Tube	N.A.	PT3	PT3	Default
602	Box/Tube	N.A.	PT3	PT3	Default
603	Box/Tube	N.A.	PT3	PT3	Default
606	Box/Tube	N.A.	PT3	PT3	Default
607	Box/Tube	N.A.	PT3	PT3	Default
608	Box/Tube	N.A.	PT3	PT3	Default
609	Box/Tube	N.A.	PT3	PT3	Default
610	Box/Tube	N.A.	PT3	PT3	Default
611	Box/Tube	N.A.	PT3	PT3	Default
612	Box/Tube	N.A.	PT3	PT3	Default
613	Box/Tube	N.A.	PT3	PT3	Default
616	Box/Tube	N.A.	PT3	PT3	Default
617	Box/Tube	N.A.	PT3	PT3	Default
618	Box/Tube	N.A.	PT3	PT3	Default
619	Box/Tube	N.A.	PT3	PT3	Default
620	Box/Tube	N.A.	PT3	PT3	Default
621	Box/Tube	N.A.	PT3	PT3	Default
622	Box/Tube	N.A.	PT3	PT3	Default
623	Box/Tube	N.A.	PT3	PT3	Default
667	Box/Tube	N.A.	PT3	PT3	Default
668	Box/Tube	N.A.	PT3	PT3	Default
800	Box/Tube	N.A.	PT3	PT3	Default
930	Box/Tube	N.A.	PT3	PT3	Default
941	Box/Tube	N.A.	PT3	PT3	Default
1234	Box/Tube	N.A.	PT1	PT1	Default
1235	Box/Tube	N.A.	PT1	PT1	Default
1333	Box/Tube	N.A.	PT2	PT2	Default
1334	Box/Tube	N.A.	PT2	PT2	Default
1401	Box/Tube	N.A.	PT1	PT1	Default
1565	Box/Tube	N.A.	PT1	PT1	Default
1569	Box/Tube	N.A.	PT1	PT1	Default
1576	Box/Tube	N.A.	PT1	PT1	Default
1577	Box/Tube	N.A.	PT1	PT1	Default
1578	Box/Tube	N.A.	PT1	PT1	Default
1579	Box/Tube	N.A.	PT1	PT1	Default
1580	Box/Tube	N.A.	PT1	PT1	Default
1581	Box/Tube	N.A.	PT1	PT1	Default
1582	Box/Tube	N.A.	PT1	PT1	Default
1583	Box/Tube	N.A.	PT1	PT1	Default
1584	Box/Tube	N.A.	PT1	PT1	Default
1585	Box/Tube	N.A.	PT1	PT1	Default
1586	Box/Tube	N.A.	PT1	PT1	Default
1588	Box/Tube	N.A.	PT1	PT1	Default
1590	Box/Tube	N.A.	PT1	PT1	Default
1592	Box/Tube	N.A.	PT1	PT1	Default
1594	Box/Tube	N.A.	PT1	PT1	Default
1596	Box/Tube	N.A.	PT1	PT1	Default
1597	Box/Tube	N.A.	PT1	PT1	Default
1607	Box/Tube	N.A.	PT3	PT3	Default
1620	Box/Tube	N.A.	PT3A	PT3A	Default
1622	Box/Tube	N.A.	PT3	PT3	Default
1627	Box/Tube	N.A.	PT3	PT3	Default
1634	Box/Tube	N.A.	PT3A	PT3A	Default
1638	Box/Tube	N.A.	PT3	PT3	Default

Table: Frame Section Properties 01 - General, Part 1 of 6

SectionName	Material	Shape	t3 m	t2 m	tf m	tw m
10/8	A572Gr50	Circle	0.031800			
DIAGONALES	A572Gr50	Pipe	0.025400			0.003000
FSEC1	A992Fy50	Rectangular	0.500000	0.300000		
PT1	A572Gr50	Box/Tube	0.220000	0.220000	0.007000	0.007000
PT2	A572Gr50	Box/Tube	0.300000	0.300000	0.010000	0.010000
PT3	A572Gr50	Box/Tube	0.075000	0.075000	0.003000	0.003000
PT3A	A572Gr50	Box/Tube	0.100000	0.100000	0.005000	0.005000

Table: Frame Section Properties 01 - General, Part 2 of 6

SectionName	Area m2	TorsConst m4	I33 m4	I22 m4	AS2 m2	AS3 m2	S33 m3
10/8	0.000794	1.004E-07	5.020E-08	5.020E-08	0.000715	0.000715	3.157E-06
DIAGONALES	0.000211	2.696E-08	1.348E-08	1.348E-08	0.000107	0.000107	1.061E-06
FSEC1	0.150000	0.002817	0.003125	0.001125	0.125000	0.125000	0.012500
PT1	0.005964	0.000068	0.000045	0.000045	0.003080	0.003080	0.000410
PT2	0.011600	0.000244	0.000163	0.000163	0.006000	0.006000	0.001085
PT3	0.000864	1.120E-06	7.478E-07	7.478E-07	0.000450	0.000450	0.000020
PT3A	0.001900	4.287E-06	2.866E-06	2.866E-06	0.001000	0.001000	0.000057

Table: Frame Section Properties 01 - General, Part 3 of 6

SectionName	S22 m3	Z33 m3	Z22 m3	R33 m	R22 m	ConcCol	ConcBeam
10/8	3.157E-06	5.360E-06	5.360E-06	0.007950	0.007950	No	No
DIAGONALES	1.061E-06	1.514E-06	1.514E-06	0.007990	0.007990	No	No
FSEC1	0.007500	0.018750	0.011250	0.144338	0.086603	No	No

PT1	0.000410	0.000477	0.000477	0.087004	0.087004	No	No
PT2	0.001085	0.001262	0.001262	0.118462	0.118462	No	No
PT3	0.000020	0.000023	0.000023	0.029419	0.029419	No	No
PT3A	0.000057	0.000068	0.000068	0.038837	0.038837	No	No

Table: Frame Section Properties 01 - General, Part 4 of 6

SectionName	Color	TotalWt KN	TotalMass KN-s2/m	FromFile	AMod	A2Mod	A3Mod
10/8	GraySDark	0.000	0.00	No	1.000000	1.000000	1.000000
DIAGONALES	White	0.000	0.00	No	1.000000	1.000000	1.000000
FSEC1	Magenta	0.000	0.00	No	1.000000	1.000000	1.000000
PT1	White	22.527	2.30	No	1.000000	1.000000	1.000000
PT2	White	10.941	1.12	No	1.000000	1.000000	1.000000
PT3	White	8.829	0.90	No	1.000000	1.000000	1.000000
PT3A	White	3.836	0.39	No	1.000000	1.000000	1.000000

Table: Frame Section Properties 01 - General, Part 5 of 6

SectionName	JMod	I2Mod	I3Mod	MMod	WMod	GUID
10/8	1.000000	1.000000	1.000000	1.000000	1.000000	
DIAGONALES	1.000000	1.000000	1.000000	1.000000	1.000000	
FSEC1	1.000000	1.000000	1.000000	0.000000	0.000000	
PT1	1.000000	1.000000	1.000000	1.000000	1.000000	
PT2	1.000000	1.000000	1.000000	1.000000	1.000000	
PT3	1.000000	1.000000	1.000000	1.000000	1.000000	
PT3A	1.000000	1.000000	1.000000	1.000000	1.000000	

Table: Frame Section Properties 01 - General, Part 6 of 6

SectionName	Notes
10/8	Added 12/07/2016 10:37:29 a. m.
DIAGONALES	Added 24/08/2016 10:55:04 a. m.
FSEC1	Added 30/06/2016 10:07:50 p. m.
PT1	Added 30/06/2016 10:56:49 p. m.
PT2	Added 24/08/2016 11:58:34 a. m.
PT3	Added 25/08/2016 6:04:21 a. m.
PT3A	Added 14/09/2016 09:19:55 a.m.

Table: Function - Response Spectrum - User

Name	Period Sec	Accel	FuncDamp
NSR	0.000000	1.518800	0.050000
NSR	0.100000	1.518800	
NSR	0.200000	1.518800	
NSR	0.300000	1.518800	
NSR	0.400000	1.518800	
NSR	0.500000	1.518800	
NSR	0.600000	1.518800	
NSR	0.700000	1.518800	
NSR	0.800000	1.518800	
NSR	0.900000	1.518800	
NSR	1.000000	1.518800	
NSR	1.100000	1.518800	
NSR	1.136000	1.518800	
NSR	1.200000	1.440000	
NSR	1.300000	1.329200	
NSR	1.400000	1.234300	
NSR	1.500000	1.152000	
NSR	1.600000	1.080000	
NSR	1.700000	1.016500	
NSR	1.800000	0.960000	
NSR	1.900000	0.909500	
NSR	2.000000	0.864000	
NSR	2.100000	0.822900	
NSR	2.200000	0.785500	
NSR	2.300000	0.751300	
NSR	2.400000	0.720000	
NSR	2.500000	0.691200	
NSR	2.600000	0.664600	
NSR	2.700000	0.640000	
NSR	2.800000	0.617100	
NSR	2.900000	0.595900	
NSR	3.000000	0.576000	
NSR	3.100000	0.557400	
NSR	3.200000	0.540000	
NSR	3.300000	0.523600	
NSR	3.400000	0.508200	
NSR	3.500000	0.493700	
NSR	3.600000	0.480000	
NSR	3.700000	0.467000	
NSR	3.800000	0.454700	
NSR	3.900000	0.443100	
NSR	4.000000	0.432000	

NSR	4.100000	0.421500
NSR	4.200000	0.411400
NSR	4.300000	0.401900
NSR	4.400000	0.392700
NSR	4.500000	0.384000
NSR	4.600000	0.375700
NSR	4.700000	0.367700
NSR	4.800000	0.360000
NSR	4.900000	0.352700
NSR	5.000000	0.345600
NSR	5.100000	0.338800
NSR	5.200000	0.332300
NSR	5.300000	0.326000
NSR	5.400000	0.320000
NSR	5.500000	0.314200
NSR	5.600000	0.308600
NSR	5.700000	0.303200
NSR	5.760000	0.300000
NSR	5.800000	0.295900
NSR	5.900000	0.285900
NSR	6.000000	0.276500
NSR	6.100000	0.267500
NSR	6.200000	0.258900
NSR	6.300000	0.250800
NSR	6.400000	0.243000
NSR	6.500000	0.235600
NSR	6.600000	0.228500
NSR	6.700000	0.221700
NSR	6.800000	0.215300
NSR	6.900000	0.209100
NSR	7.000000	0.203100
UMBRAL	0.000000	0.100000
UMBRAL	0.100000	0.180000
UMBRAL	0.200000	0.260000
UMBRAL	0.250000	0.300000
UMBRAL	0.300000	0.300000
UMBRAL	0.400000	0.300000
UMBRAL	0.500000	0.300000
UMBRAL	0.600000	0.300000
UMBRAL	0.700000	0.300000
UMBRAL	0.800000	0.300000
UMBRAL	0.900000	0.300000
UMBRAL	1.000000	0.300000
UMBRAL	1.100000	0.300000
UMBRAL	1.200000	0.300000
UMBRAL	1.300000	0.300000
UMBRAL	1.400000	0.300000
UMBRAL	1.500000	0.300000
UMBRAL	1.600000	0.281300
UMBRAL	1.700000	0.264700
UMBRAL	1.800000	0.250000
UMBRAL	1.900000	0.236800
UMBRAL	2.000000	0.225000
UMBRAL	2.100000	0.214300
UMBRAL	2.200000	0.204500
UMBRAL	2.300000	0.195700
UMBRAL	2.400000	0.187500
UMBRAL	2.500000	0.180000
UMBRAL	2.600000	0.173100
UMBRAL	2.700000	0.166700
UMBRAL	2.800000	0.160700
UMBRAL	2.900000	0.155200
UMBRAL	3.000000	0.150000
UMBRAL	3.100000	0.145200
UMBRAL	3.200000	0.140600
UMBRAL	3.300000	0.136400
UMBRAL	3.400000	0.132400
UMBRAL	3.500000	0.128600
UMBRAL	3.600000	0.125000
UMBRAL	3.700000	0.121600
UMBRAL	3.800000	0.118400
UMBRAL	3.900000	0.115400
UMBRAL	4.000000	0.112500
UMBRAL	4.100000	0.109800
UMBRAL	4.200000	0.107100
UMBRAL	4.300000	0.104700
UMBRAL	4.400000	0.102300
UMBRAL	4.500000	0.100000
UMBRAL	4.600000	0.097800
UMBRAL	4.700000	0.095700
UMBRAL	4.800000	0.093800
UMBRAL	4.900000	0.091800
UMBRAL	5.000000	0.090000
UMBRAL	5.100000	0.088200
UMBRAL	5.200000	0.086500
UMBRAL	5.300000	0.084900
UMBRAL	5.400000	0.083300
UMBRAL	5.500000	0.081800
UMBRAL	5.600000	0.080400
UMBRAL	5.700000	0.078900
UMBRAL	5.800000	0.077600
UMBRAL	5.900000	0.076300
UMBRAL	6.000000	0.075000
UMBRAL	6.100000	0.073800
UMBRAL	6.200000	0.072600

0.020000

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UMBRAL	6.300000	0.071400
UMBRAL	6.400000	0.070300
UMBRAL	6.500000	0.069200
UMBRAL	6.600000	0.068200
UMBRAL	6.700000	0.067200
UMBRAL	6.800000	0.066200
UMBRAL	6.900000	0.065200
UMBRAL	7.000000	0.064300
UMBRAL	7.100000	0.063400
UMBRAL	7.200000	0.062500
UMBRAL	7.300000	0.060800
UMBRAL	7.400000	0.059200
UMBRAL	7.500000	0.057600
UMBRAL	7.600000	0.056100
UMBRAL	7.700000	0.054600
UMBRAL	7.800000	0.053300
UMBRAL	7.900000	0.051900
UMBRAL	8.000000	0.050600

Table: Joint Coordinates, Part 1 of 2

Joint	CoordSys	CoordType	XorR m	Y m	Z m	SpecialJt	GlobalX m
1	GLOBAL	Cartesian	0.00000	0.00000	0.00000	Yes	0.00000
2	GLOBAL	Cartesian	2.76800	4.00000	2.18000	No	2.76800
3	GLOBAL	Cartesian	5.00000	1.00000	0.00000	No	5.00000
4	GLOBAL	Cartesian	5.00000	2.00000	0.00000	No	5.00000
5	GLOBAL	Cartesian	5.00000	3.00000	0.00000	No	5.00000
6	GLOBAL	Cartesian	0.82647	6.940E-18	0.78004	No	0.82647
7	GLOBAL	Cartesian	3.79000	3.00000	2.08000	No	3.79000
8	GLOBAL	Cartesian	3.26400	4.00000	2.14000	No	3.26400
9	GLOBAL	Cartesian	0.82790	-7.027E-18	0.55193	No	0.82790
10	GLOBAL	Cartesian	5.00000	0.00000	0.00000	Yes	5.00000
11	GLOBAL	Cartesian	0.49749	0.00000	0.33166	No	0.49749
12	GLOBAL	Cartesian	3.51200	4.00000	2.12000	No	3.51200
13	GLOBAL	Cartesian	3.76000	4.00000	2.10000	No	3.76000
14	GLOBAL	Cartesian	3.81813	3.10500	2.08000	No	3.81813
15	GLOBAL	Cartesian	2.50000	0.00000	1.74667	No	2.50000
16	GLOBAL	Cartesian	4.25600	4.00000	2.06000	No	4.25600
17	GLOBAL	Cartesian	4.50400	4.00000	2.04000	No	4.50400
18	GLOBAL	Cartesian	4.75200	4.00000	2.02000	No	4.75200
19	GLOBAL	Cartesian	2.50000	0.00000	1.00000	No	2.50000
20	GLOBAL	Cartesian	2.82790	0.00000	1.21860	No	2.82790
21	GLOBAL	Cartesian	3.16419	0.00000	1.45604	No	3.16419
22	GLOBAL	Cartesian	3.52521	0.00000	1.72583	No	3.52521
23	GLOBAL	Cartesian	2.50000	0.00000	0.33333	No	2.50000
24	GLOBAL	Cartesian	2.82790	0.00000	0.55193	No	2.82790
25	GLOBAL	Cartesian	3.17214	0.00000	0.78143	No	3.17214
26	GLOBAL	Cartesian	3.50000	0.00000	1.00000	No	3.50000
27	GLOBAL	Cartesian	0.00000	0.00000	0.50000	Yes	0.00000
28	GLOBAL	Cartesian	3.82790	0.00000	1.21860	No	3.82790
29	GLOBAL	Cartesian	4.17214	0.00000	1.44809	No	4.17214
30	GLOBAL	Cartesian	4.52358	0.00000	1.68239	No	4.52358
31	GLOBAL	Cartesian	3.50000	0.00000	0.33333	No	3.50000
32	GLOBAL	Cartesian	3.82790	0.00000	0.55193	No	3.82790
33	GLOBAL	Cartesian	4.17353	0.00000	0.78004	No	4.17353
34	GLOBAL	Cartesian	4.50251	0.00000	0.99497	No	4.50251
35	GLOBAL	Cartesian	4.50251	0.00000	0.33166	No	4.50251
36	GLOBAL	Cartesian	1.00000	0.00000	1.75000	No	1.00000
37	GLOBAL	Cartesian	4.17210	0.00000	0.55193	No	4.17210
38	GLOBAL	Cartesian	3.82786	0.00000	0.78143	No	3.82786
39	GLOBAL	Cartesian	0.00000	1.00000	0.00000	Yes	0.00000
40	GLOBAL	Cartesian	3.17210	0.00000	1.21860	No	3.17210
41	GLOBAL	Cartesian	0.00000	2.00000	0.00000	Yes	0.00000
42	GLOBAL	Cartesian	2.84294	0.00000	1.46317	No	2.84294
43	GLOBAL	Cartesian	0.00000	3.00000	0.00000	Yes	0.00000
44	GLOBAL	Cartesian	3.17210	0.00000	0.55193	No	3.17210
45	GLOBAL	Cartesian	0.00000	4.00000	0.00000	Yes	0.00000
46	GLOBAL	Cartesian	2.82786	0.00000	0.78143	No	2.82786
47	GLOBAL	Cartesian	3.89500	3.18187	2.08000	No	3.89500
48	GLOBAL	Cartesian	4.00000	3.21000	2.08000	No	4.00000
49	GLOBAL	Cartesian	4.10500	3.18187	2.08000	No	4.10500
50	GLOBAL	Cartesian	4.18187	3.10500	2.08000	No	4.18187
51	GLOBAL	Cartesian	4.21000	3.00000	2.08000	No	4.21000
52	GLOBAL	Cartesian	4.18187	2.89500	2.08000	No	4.18187
53	GLOBAL	Cartesian	0.82784	0.00000	1.44811	No	0.82784
54	GLOBAL	Cartesian	0.49749	0.00000	0.99497	No	0.49749
55	GLOBAL	Cartesian	0.00000	0.00000	1.00000	Yes	0.00000
56	GLOBAL	Cartesian	4.17141	0.00000	1.21791	No	4.17141
57	GLOBAL	Cartesian	0.00000	0.00000	1.50000	Yes	0.00000
58	GLOBAL	Cartesian	0.82861	0.00000	1.21793	No	0.82861
59	GLOBAL	Cartesian	0.00000	0.00000	2.00000	Yes	0.00000
60	GLOBAL	Cartesian	4.10500	2.81813	2.08000	No	4.10500
61	GLOBAL	Cartesian	3.84294	0.00000	1.46317	No	3.84294
62	GLOBAL	Cartesian	0.82647	4.00000	0.78004	No	0.82647
63	GLOBAL	Cartesian	1.17214	4.00000	0.78143	No	1.17214
64	GLOBAL	Cartesian	1.17210	4.00000	0.55193	No	1.17210
65	GLOBAL	Cartesian	0.82790	4.00000	0.55193	No	0.82790
66	GLOBAL	Cartesian	0.49749	4.00000	0.33166	No	0.49749
67	GLOBAL	Cartesian	1.50000	4.00000	1.00000	No	1.50000
68	GLOBAL	Cartesian	1.82790	4.00000	1.21860	No	1.82790
69	GLOBAL	Cartesian	2.15706	4.00000	1.46317	No	2.15706
70	GLOBAL	Cartesian	2.50000	4.00000	1.74667	No	2.50000

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71	GLOBAL	Cartesian	1.50000	4.00000	0.33333	No	1.50000
72	GLOBAL	Cartesian	1.82790	4.00000	0.55193	No	1.82790
73	GLOBAL	Cartesian	2.17214	4.00000	0.78143	No	2.17214
74	GLOBAL	Cartesian	2.50000	4.00000	1.00000	No	2.50000
75	GLOBAL	Cartesian	2.82790	4.00000	1.21860	No	2.82790
76	GLOBAL	Cartesian	3.16419	4.00000	1.45604	No	3.16419
77	GLOBAL	Cartesian	2.52000	0.00000	2.20000	Yes	2.52000
78	GLOBAL	Cartesian	3.52521	4.00000	1.72583	No	3.52521
79	GLOBAL	Cartesian	2.50000	4.00000	0.33333	No	2.50000
80	GLOBAL	Cartesian	2.82790	4.00000	0.55193	No	2.82790
81	GLOBAL	Cartesian	3.17214	4.00000	0.78143	No	3.17214
82	GLOBAL	Cartesian	3.50000	4.00000	1.00000	No	3.50000
83	GLOBAL	Cartesian	3.82790	4.00000	1.21860	No	3.82790
84	GLOBAL	Cartesian	4.17214	4.00000	1.44809	No	4.17214
85	GLOBAL	Cartesian	4.52358	4.00000	1.68239	No	4.52358
86	GLOBAL	Cartesian	3.50000	4.00000	0.33333	No	3.50000
87	GLOBAL	Cartesian	3.82790	4.00000	0.55193	No	3.82790
88	GLOBAL	Cartesian	4.00000	2.79000	2.08000	No	4.00000
89	GLOBAL	Cartesian	4.17353	4.00000	0.78004	No	4.17353
90	GLOBAL	Cartesian	4.50251	4.00000	0.99497	No	4.50251
91	GLOBAL	Cartesian	2.20000	0.00000	0.00000	No	2.20000
92	GLOBAL	Cartesian	4.50251	4.00000	0.33166	No	4.50251
93	GLOBAL	Cartesian	4.17210	4.00000	0.55193	No	4.17210
94	GLOBAL	Cartesian	5.00000	0.00000	2.00000	Yes	5.00000
95	GLOBAL	Cartesian	3.82786	4.00000	0.78143	No	3.82786
96	GLOBAL	Cartesian	3.17210	4.00000	1.21860	No	3.17210
97	GLOBAL	Cartesian	2.84294	4.00000	1.46317	No	2.84294
98	GLOBAL	Cartesian	3.17210	4.00000	0.55193	No	3.17210
99	GLOBAL	Cartesian	2.82786	4.00000	0.78143	No	2.82786
100	GLOBAL	Cartesian	2.17210	4.00000	1.21860	No	2.17210
101	GLOBAL	Cartesian	1.83569	4.00000	1.45592	No	1.83569
102	GLOBAL	Cartesian	1.47436	4.00000	1.72547	No	1.47436
103	GLOBAL	Cartesian	2.17210	4.00000	0.55193	No	2.17210
104	GLOBAL	Cartesian	1.82786	4.00000	0.78143	No	1.82786
105	GLOBAL	Cartesian	1.17208	4.00000	1.21861	No	1.17208
106	GLOBAL	Cartesian	0.82784	4.00000	1.44811	No	0.82784
107	GLOBAL	Cartesian	0.49749	4.00000	0.99497	No	0.49749
108	GLOBAL	Cartesian	4.17141	4.00000	1.21791	No	4.17141
109	GLOBAL	Cartesian	0.82861	4.00000	1.21793	No	0.82861
110	GLOBAL	Cartesian	1.15708	4.00000	1.46319	No	1.15708
111	GLOBAL	Cartesian	3.84294	4.00000	1.46317	No	3.84294
112	GLOBAL	Cartesian	5.00000	1.16879	0.54860	No	5.00000
113	GLOBAL	Cartesian	5.00000	1.17212	0.78141	No	5.00000
114	GLOBAL	Cartesian	5.00000	0.82317	0.77671	No	5.00000
115	GLOBAL	Cartesian	5.00000	0.82788	0.55192	No	5.00000
116	GLOBAL	Cartesian	5.00000	0.49749	0.33166	No	5.00000
117	GLOBAL	Cartesian	3.89500	2.81813	2.08000	No	3.89500
118	GLOBAL	Cartesian	5.00000	1.50000	1.00000	No	5.00000
119	GLOBAL	Cartesian	5.00000	0.50000	2.00000	Yes	5.00000
120	GLOBAL	Cartesian	5.00000	1.00000	2.00000	Yes	5.00000
121	GLOBAL	Cartesian	5.00000	1.50000	2.00000	Yes	5.00000
122	GLOBAL	Cartesian	5.00000	2.00000	2.00000	Yes	5.00000
123	GLOBAL	Cartesian	5.00000	2.50000	2.00000	Yes	5.00000
124	GLOBAL	Cartesian	5.00000	3.00000	2.00000	Yes	5.00000
125	GLOBAL	Cartesian	5.00000	3.50000	2.00000	Yes	5.00000
126	GLOBAL	Cartesian	5.00000	4.00000	2.00000	Yes	5.00000
127	GLOBAL	Cartesian	5.00000	1.82788	1.21859	No	5.00000
128	GLOBAL	Cartesian	3.81813	2.89500	2.08000	No	3.81813
129	GLOBAL	Cartesian	5.00000	2.17212	1.44808	No	5.00000
130	GLOBAL	Cartesian	5.00000	2.49875	1.66584	No	5.00000
131	GLOBAL	Cartesian	5.00000	1.49749	0.33166	No	5.00000
132	GLOBAL	Cartesian	5.00000	1.82788	0.55192	No	5.00000
133	GLOBAL	Cartesian	5.00000	2.17212	0.78141	No	5.00000
134	GLOBAL	Cartesian	5.00000	2.50000	1.00000	No	5.00000
135	GLOBAL	Cartesian	5.00000	4.00000	0.00000	Yes	5.00000
136	GLOBAL	Cartesian	5.00000	2.82788	1.21859	No	5.00000
137	GLOBAL	Cartesian	5.00000	3.17212	1.44808	No	5.00000
138	GLOBAL	Cartesian	5.00000	3.49505	1.66337	No	5.00000
139	GLOBAL	Cartesian	5.00000	2.50251	0.33166	No	5.00000
140	GLOBAL	Cartesian	5.00000	2.83121	0.54860	No	5.00000
141	GLOBAL	Cartesian	5.00000	3.17683	0.77671	No	5.00000
142	GLOBAL	Cartesian	5.00000	3.50376	0.99248	No	5.00000
143	GLOBAL	Cartesian	5.00000	3.50251	0.33166	No	5.00000
144	GLOBAL	Cartesian	5.00000	3.17212	0.55192	No	5.00000
145	GLOBAL	Cartesian	5.00000	2.17212	1.21859	No	5.00000
146	GLOBAL	Cartesian	5.00000	0.00000	2.00000	No	0.00000
147	GLOBAL	Cartesian	5.00000	1.82788	1.44808	No	5.00000
148	GLOBAL	Cartesian	5.00000	1.50495	1.66337	No	5.00000
149	GLOBAL	Cartesian	5.00000	2.17212	0.55192	No	5.00000
150	GLOBAL	Cartesian	5.00000	1.82788	0.78141	No	5.00000
151	GLOBAL	Cartesian	5.00000	1.17212	1.21859	No	5.00000
152	GLOBAL	Cartesian	5.00000	2.00000	2.00000	No	0.00000
153	GLOBAL	Cartesian	5.00000	3.16978	1.21625	No	5.00000
154	GLOBAL	Cartesian	5.00000	3.00000	2.00000	No	0.00000
155	GLOBAL	Cartesian	5.00000	2.82623	1.44643	No	5.00000
156	GLOBAL	Cartesian	5.00000	0.83522	1.21125	No	5.00000
157	GLOBAL	Cartesian	5.00000	1.17869	1.44151	No	5.00000
158	GLOBAL	Cartesian	2.220E-16	1.16879	0.54860	No	2.220E-16
159	GLOBAL	Cartesian	2.080E-16	1.17212	0.78141	No	2.080E-16
160	GLOBAL	Cartesian	0.00000	4.00000	2.00000	Yes	0.00000
161	GLOBAL	Cartesian	2.148E-16	0.82317	0.77671	No	2.148E-16
162	GLOBAL	Cartesian	2.220E-16	0.82788	0.55192	No	2.220E-16

171	GLOBAL	Cartesian	0.00000	0.49749	0.33166	No	0.00000
173	GLOBAL	Cartesian	0.00000	1.50000	1.00000	No	0.00000
174	GLOBAL	Cartesian	0.00000	1.82788	1.21859	No	0.00000
176	GLOBAL	Cartesian	0.00000	2.17212	1.44808	No	0.00000
177	GLOBAL	Cartesian	0.00000	2.49875	1.66584	No	0.00000
178	GLOBAL	Cartesian	0.00000	1.49749	0.33166	No	0.00000
179	GLOBAL	Cartesian	0.00000	1.82788	0.55192	No	0.00000
181	GLOBAL	Cartesian	0.00000	2.17212	0.78141	No	0.00000
182	GLOBAL	Cartesian	0.00000	2.50000	1.00000	No	0.00000
183	GLOBAL	Cartesian	0.00000	2.82788	1.21859	No	0.00000
185	GLOBAL	Cartesian	0.00000	3.17212	1.44808	No	0.00000
186	GLOBAL	Cartesian	0.00000	3.49505	1.66337	No	0.00000
187	GLOBAL	Cartesian	0.00000	2.50251	0.33166	No	0.00000
188	GLOBAL	Cartesian	0.00000	2.83121	0.54860	No	0.00000
190	GLOBAL	Cartesian	0.00000	3.17683	0.77671	No	0.00000
191	GLOBAL	Cartesian	0.00000	3.50376	0.99248	No	0.00000
192	GLOBAL	Cartesian	0.00000	3.50251	0.33166	No	0.00000
193	GLOBAL	Cartesian	0.00000	3.17212	0.55192	No	0.00000
194	GLOBAL	Cartesian	0.00000	2.82788	0.78141	No	0.00000
195	GLOBAL	Cartesian	0.00000	2.17212	1.21859	No	0.00000
196	GLOBAL	Cartesian	0.00000	1.82788	1.44808	No	0.00000
197	GLOBAL	Cartesian	0.00000	1.50495	1.66337	No	0.00000
198	GLOBAL	Cartesian	0.00000	2.17212	0.55192	No	0.00000
199	GLOBAL	Cartesian	0.00000	1.82788	0.78141	No	0.00000
200	GLOBAL	Cartesian	0.00000	1.17212	1.21859	No	0.00000
202	GLOBAL	Cartesian	0.00000	0.82788	1.44808	No	0.00000
203	GLOBAL	Cartesian	0.00000	0.50495	1.66337	No	0.00000
204	GLOBAL	Cartesian	0.00000	0.50000	0.99000	No	0.00000
205	GLOBAL	Cartesian	0.00000	3.16978	1.21625	No	0.00000
206	GLOBAL	Cartesian	0.00000	2.82623	1.44643	No	0.00000
207	GLOBAL	Cartesian	0.00000	0.83522	1.21125	No	0.00000
208	GLOBAL	Cartesian	2.175E-16	1.17869	1.44151	No	2.175E-16
210	GLOBAL	Cartesian	2.20000	0.00000	1.75000	No	2.20000
211	GLOBAL	Cartesian	2.20000	0.00000	1.49867	No	2.20000
212	GLOBAL	Cartesian	2.20000	0.00000	0.80000	No	2.20000
213	GLOBAL	Cartesian	2.20000	0.00000	0.13333	No	2.20000
214	GLOBAL	Cartesian	2.20000	0.00000	1.20000	No	2.20000
215	GLOBAL	Cartesian	2.20000	0.00000	0.53333	No	2.20000
216	GLOBAL	Cartesian	1.44149	0.00000	1.75000	No	1.44149
217	GLOBAL	Cartesian	1.50403	0.00000	1.75000	No	1.50403
218	GLOBAL	Cartesian	2.20000	0.00000	2.17460	No	2.20000
219	GLOBAL	Cartesian	0.50000	0.50000	2.04000	No	0.50000
220	GLOBAL	Cartesian	1.50000	1.50000	2.12000	No	1.50000
221	GLOBAL	Cartesian	2.50000	2.50000	2.16000	No	2.50000
222	GLOBAL	Cartesian	3.50000	3.50000	2.12032	No	3.50000
223	GLOBAL	Cartesian	1.50000	0.50000	2.11968	No	1.50000
224	GLOBAL	Cartesian	2.50000	1.50000	2.16000	No	2.50000
225	GLOBAL	Cartesian	3.50000	2.50000	2.12000	No	3.50000
226	GLOBAL	Cartesian	4.50000	3.50000	2.04000	No	4.50000
227	GLOBAL	Cartesian	3.50000	1.50000	2.12032	No	3.50000
228	GLOBAL	Cartesian	4.50000	2.50000	2.04032	No	4.50000
229	GLOBAL	Cartesian	3.50000	0.50000	2.12000	No	3.50000
230	GLOBAL	Cartesian	4.50000	1.50000	2.04000	No	4.50000
231	GLOBAL	Cartesian	4.50000	0.50000	2.04000	No	4.50000
232	GLOBAL	Cartesian	1.50000	3.50000	2.11968	No	1.50000
233	GLOBAL	Cartesian	0.50000	3.50000	2.04000	No	0.50000
234	GLOBAL	Cartesian	1.50000	2.50000	2.12000	No	1.50000
235	GLOBAL	Cartesian	0.50000	1.50000	2.04000	No	0.50000
248	GLOBAL	Cartesian	0.79000	1.00000	2.08000	No	0.79000
249	GLOBAL	Cartesian	0.81813	1.10500	2.08000	No	0.81813
250	GLOBAL	Cartesian	0.89500	1.18187	2.08000	No	0.89500
251	GLOBAL	Cartesian	1.00000	1.21000	2.08000	No	1.00000
252	GLOBAL	Cartesian	1.10500	1.18187	2.08000	No	1.10500
253	GLOBAL	Cartesian	1.18187	1.10500	2.08000	No	1.18187
254	GLOBAL	Cartesian	1.21000	1.00000	2.08000	No	1.21000
255	GLOBAL	Cartesian	1.18187	0.89500	2.08000	No	1.18187
256	GLOBAL	Cartesian	1.10500	0.81813	2.08000	No	1.10500
257	GLOBAL	Cartesian	1.00000	0.79000	2.08000	No	1.00000
258	GLOBAL	Cartesian	0.89500	0.81813	2.08000	No	0.89500
259	GLOBAL	Cartesian	0.81813	0.89500	2.08000	No	0.81813
260	GLOBAL	Cartesian	0.79000	2.00000	2.08000	No	0.79000
261	GLOBAL	Cartesian	0.81813	2.10500	2.08000	No	0.81813
262	GLOBAL	Cartesian	0.89500	2.18187	2.08000	No	0.89500
263	GLOBAL	Cartesian	1.00000	2.21000	2.08000	No	1.00000
264	GLOBAL	Cartesian	1.10500	2.18187	2.08000	No	1.10500
265	GLOBAL	Cartesian	1.18187	2.10500	2.08000	No	1.18187
266	GLOBAL	Cartesian	1.21000	2.00000	2.08000	No	1.21000
267	GLOBAL	Cartesian	1.18187	1.89500	2.08000	No	1.18187
268	GLOBAL	Cartesian	1.10500	1.81813	2.08000	No	1.10500
269	GLOBAL	Cartesian	1.00000	1.79000	2.08000	No	1.00000
270	GLOBAL	Cartesian	0.89500	1.81813	2.08000	No	0.89500
271	GLOBAL	Cartesian	0.81813	1.89500	2.08000	No	0.81813
272	GLOBAL	Cartesian	0.79000	3.00000	2.08000	No	0.79000
273	GLOBAL	Cartesian	0.81813	3.10500	2.08000	No	0.81813
274	GLOBAL	Cartesian	0.89500	3.18187	2.08000	No	0.89500
275	GLOBAL	Cartesian	1.00000	3.21000	2.08000	No	1.00000
276	GLOBAL	Cartesian	1.10500	3.18187	2.08000	No	1.10500
277	GLOBAL	Cartesian	1.18187	3.10500	2.08000	No	1.18187
278	GLOBAL	Cartesian	1.21000	3.00000	2.08000	No	1.21000
279	GLOBAL	Cartesian	1.18187	2.89500	2.08000	No	1.18187
280	GLOBAL	Cartesian	1.10500	2.81813	2.08000	No	1.10500
281	GLOBAL	Cartesian	1.00000	2.79000	2.08000	No	1.00000
282	GLOBAL	Cartesian	0.89500	2.81813	2.08000	No	0.89500
283	GLOBAL	Cartesian	0.81813	2.89500	2.08000	No	0.81813
284	GLOBAL	Cartesian	1.79000	1.00000	2.16000	No	1.79000

285	GLOBAL	Cartesian	1.81813	1.10500	2.16000	No	1.81813
286	GLOBAL	Cartesian	1.89500	1.18187	2.16000	No	1.89500
287	GLOBAL	Cartesian	2.00000	1.21000	2.16000	No	2.00000
288	GLOBAL	Cartesian	2.10500	1.18187	2.16000	No	2.10500
289	GLOBAL	Cartesian	2.18187	1.10500	2.16000	No	2.18187
290	GLOBAL	Cartesian	2.21000	1.00000	2.16000	No	2.21000
291	GLOBAL	Cartesian	2.18187	0.89500	2.16000	No	2.18187
292	GLOBAL	Cartesian	2.10500	0.81813	2.16000	No	2.10500
293	GLOBAL	Cartesian	2.00000	0.79000	2.16000	No	2.00000
294	GLOBAL	Cartesian	1.89500	0.81813	2.16000	No	1.89500
295	GLOBAL	Cartesian	1.81813	0.89500	2.16000	No	1.81813
296	GLOBAL	Cartesian	1.79000	2.00000	2.16000	No	1.79000
297	GLOBAL	Cartesian	1.81813	2.10500	2.16000	No	1.81813
298	GLOBAL	Cartesian	1.89500	2.18187	2.16000	No	1.89500
299	GLOBAL	Cartesian	2.00000	2.21000	2.16000	No	2.00000
300	GLOBAL	Cartesian	2.10500	2.18187	2.16000	No	2.10500
301	GLOBAL	Cartesian	2.18187	2.10500	2.16000	No	2.18187
302	GLOBAL	Cartesian	2.21000	2.00000	2.16000	No	2.21000
303	GLOBAL	Cartesian	2.18187	1.89500	2.16000	No	2.18187
304	GLOBAL	Cartesian	2.10500	1.81813	2.16000	No	2.10500
305	GLOBAL	Cartesian	2.00000	1.79000	2.16000	No	2.00000
306	GLOBAL	Cartesian	1.89500	1.81813	2.16000	No	1.89500
307	GLOBAL	Cartesian	1.81813	1.89500	2.16000	No	1.81813
308	GLOBAL	Cartesian	1.79000	3.00000	2.16000	No	1.79000
309	GLOBAL	Cartesian	1.81813	3.10500	2.16000	No	1.81813
310	GLOBAL	Cartesian	1.89500	3.18187	2.16000	No	1.89500
311	GLOBAL	Cartesian	2.00000	3.21000	2.16000	No	2.00000
312	GLOBAL	Cartesian	2.10500	3.18187	2.16000	No	2.10500
313	GLOBAL	Cartesian	2.18187	3.10500	2.16000	No	2.18187
314	GLOBAL	Cartesian	2.21000	3.00000	2.16000	No	2.21000
315	GLOBAL	Cartesian	2.18187	2.89500	2.16000	No	2.18187
316	GLOBAL	Cartesian	2.10500	2.81813	2.16000	No	2.10500
317	GLOBAL	Cartesian	2.00000	2.79000	2.16000	No	2.00000
318	GLOBAL	Cartesian	1.89500	2.81813	2.16000	No	1.89500
319	GLOBAL	Cartesian	1.81813	2.89500	2.16000	No	1.81813
320	GLOBAL	Cartesian	2.79000	1.00000	2.16000	No	2.79000
321	GLOBAL	Cartesian	2.81813	1.10500	2.16000	No	2.81813
322	GLOBAL	Cartesian	2.89500	1.18187	2.16000	No	2.89500
323	GLOBAL	Cartesian	3.00000	1.21000	2.16000	No	3.00000
324	GLOBAL	Cartesian	3.10500	1.18187	2.16000	No	3.10500
325	GLOBAL	Cartesian	3.18187	1.10500	2.16000	No	3.18187
326	GLOBAL	Cartesian	3.21000	1.00000	2.16000	No	3.21000
327	GLOBAL	Cartesian	3.18187	0.89500	2.16000	No	3.18187
328	GLOBAL	Cartesian	3.10500	0.81813	2.16000	No	3.10500
329	GLOBAL	Cartesian	3.00000	0.79000	2.16000	No	3.00000
330	GLOBAL	Cartesian	2.89500	0.81813	2.16000	No	2.89500
331	GLOBAL	Cartesian	2.81813	0.89500	2.16000	No	2.81813
332	GLOBAL	Cartesian	2.79000	2.00000	2.16000	No	2.79000
333	GLOBAL	Cartesian	2.81813	2.10500	2.16000	No	2.81813
334	GLOBAL	Cartesian	2.89500	2.18187	2.16000	No	2.89500
335	GLOBAL	Cartesian	3.00000	2.21000	2.16000	No	3.00000
336	GLOBAL	Cartesian	3.10500	2.18187	2.16000	No	3.10500
337	GLOBAL	Cartesian	3.18187	2.10500	2.16000	No	3.18187
338	GLOBAL	Cartesian	3.21000	2.00000	2.16000	No	3.21000
339	GLOBAL	Cartesian	3.18187	1.89500	2.16000	No	3.18187
340	GLOBAL	Cartesian	3.10500	1.81813	2.16000	No	3.10500
341	GLOBAL	Cartesian	3.00000	1.79000	2.16000	No	3.00000
342	GLOBAL	Cartesian	2.89500	1.81813	2.16000	No	2.89500
343	GLOBAL	Cartesian	2.81813	1.89500	2.16000	No	2.81813
344	GLOBAL	Cartesian	2.79000	3.00000	2.16000	No	2.79000
345	GLOBAL	Cartesian	2.81813	3.10500	2.16000	No	2.81813
346	GLOBAL	Cartesian	2.89500	3.18187	2.16000	No	2.89500
347	GLOBAL	Cartesian	3.00000	3.21000	2.16000	No	3.00000
348	GLOBAL	Cartesian	3.10500	3.18187	2.16000	No	3.10500
349	GLOBAL	Cartesian	3.18187	3.10500	2.16000	No	3.18187
350	GLOBAL	Cartesian	3.21000	3.00000	2.16000	No	3.21000
351	GLOBAL	Cartesian	3.18187	2.89500	2.16000	No	3.18187
352	GLOBAL	Cartesian	3.10500	2.81813	2.16000	No	3.10500
353	GLOBAL	Cartesian	3.00000	2.79000	2.16000	No	3.00000
354	GLOBAL	Cartesian	2.89500	2.81813	2.16000	No	2.89500
355	GLOBAL	Cartesian	2.81813	2.89500	2.16000	No	2.81813
356	GLOBAL	Cartesian	3.79000	1.00000	2.08000	No	3.79000
357	GLOBAL	Cartesian	3.81813	1.10500	2.08000	No	3.81813
358	GLOBAL	Cartesian	3.89500	1.18187	2.08000	No	3.89500
359	GLOBAL	Cartesian	4.00000	1.21000	2.08000	No	4.00000
360	GLOBAL	Cartesian	4.10500	1.18187	2.08000	No	4.10500
361	GLOBAL	Cartesian	4.18187	1.10500	2.08000	No	4.18187
362	GLOBAL	Cartesian	4.21000	1.00000	2.08000	No	4.21000
363	GLOBAL	Cartesian	4.18187	0.89500	2.08000	No	4.18187
364	GLOBAL	Cartesian	4.10500	0.81813	2.08000	No	4.10500
365	GLOBAL	Cartesian	4.00000	0.79000	2.08000	No	4.00000
366	GLOBAL	Cartesian	3.89500	0.81813	2.08000	No	3.89500
367	GLOBAL	Cartesian	3.81813	0.89500	2.08000	No	3.81813
368	GLOBAL	Cartesian	0.00000	4.00000	0.66000	No	0.00000
369	GLOBAL	Cartesian	5.00000	4.00000	0.66000	No	5.00000
370	GLOBAL	Cartesian	0.00000	4.00000	1.32000	No	0.00000
371	GLOBAL	Cartesian	5.00000	4.00000	1.32000	No	5.00000
372	GLOBAL	Cartesian	3.79000	2.00000	2.08000	No	3.79000
373	GLOBAL	Cartesian	3.81813	2.10500	2.08000	No	3.81813
374	GLOBAL	Cartesian	3.89500	2.18187	2.08000	No	3.89500
375	GLOBAL	Cartesian	4.00000	2.21000	2.08000	No	4.00000
376	GLOBAL	Cartesian	4.10500	2.18187	2.08000	No	4.10500
377	GLOBAL	Cartesian	4.18187	2.10500	2.08000	No	4.18187
378	GLOBAL	Cartesian	4.21000	2.00000	2.08000	No	4.21000
379	GLOBAL	Cartesian	4.18187	1.89500	2.08000	No	4.18187

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380	GLOBAL	Cartesian	4.10500	1.81813	2.08000	No	4.10500
381	GLOBAL	Cartesian	4.00000	1.79000	2.08000	No	4.00000
382	GLOBAL	Cartesian	3.89500	1.81813	2.08000	No	3.89500
383	GLOBAL	Cartesian	3.81813	1.89500	2.08000	No	3.81813
523	GLOBAL	Cartesian	2.220E-16	1.00000	0.45667	Yes	2.220E-16
524	GLOBAL	Cartesian	2.220E-16	1.10500	0.48480	Yes	2.220E-16
525	GLOBAL	Cartesian	2.220E-16	1.18187	0.56167	Yes	2.220E-16
526	GLOBAL	Cartesian	2.220E-16	1.18187	0.77167	Yes	2.220E-16
527	GLOBAL	Cartesian	1.110E-16	1.10500	0.84853	Yes	1.110E-16
528	GLOBAL	Cartesian	1.110E-16	1.00000	0.87667	Yes	1.110E-16
529	GLOBAL	Cartesian	1.110E-16	0.89500	0.84853	Yes	1.110E-16
530	GLOBAL	Cartesian	2.220E-16	0.81813	0.77167	Yes	2.220E-16
531	GLOBAL	Cartesian	2.220E-16	0.81813	0.56167	Yes	2.220E-16
532	GLOBAL	Cartesian	2.220E-16	0.89500	0.48480	Yes	2.220E-16
533	GLOBAL	Cartesian	1.286E-17	1.21000	0.66667	No	1.286E-17
534	GLOBAL	Cartesian	-3.858E-17	0.79000	0.66667	No	-3.858E-17
535	GLOBAL	Cartesian	0.00000	0.00000	0.66000	No	0.00000
536	GLOBAL	Cartesian	0.00000	0.00000	1.32000	No	0.00000
577	GLOBAL	Cartesian	0.81813	6.429E-18	0.77170	Yes	0.81813
578	GLOBAL	Cartesian	0.89500	1.114E-17	0.84857	Yes	0.89500
579	GLOBAL	Cartesian	1.286E-17	1.286E-17	0.21000	Yes	1.286E-17
584	GLOBAL	Cartesian	1.00000	-1.286E-17	0.45670	Yes	1.00000
585	GLOBAL	Cartesian	0.89500	-1.114E-17	0.48483	Yes	0.89500
586	GLOBAL	Cartesian	0.81813	-6.429E-18	0.56170	Yes	0.81813
587	GLOBAL	Cartesian	1.00000	1.286E-17	0.87670	No	1.00000
589	GLOBAL	Cartesian	0.79000	2.572E-17	0.66670	No	0.79000
709	GLOBAL	Cartesian	2.220E-16	2.00000	0.45667	Yes	2.220E-16
710	GLOBAL	Cartesian	2.220E-16	2.10500	0.48480	Yes	2.220E-16
711	GLOBAL	Cartesian	2.220E-16	2.18187	0.56167	Yes	2.220E-16
712	GLOBAL	Cartesian	2.220E-16	2.18187	0.77167	Yes	2.220E-16
713	GLOBAL	Cartesian	1.110E-16	2.10500	0.84853	Yes	1.110E-16
714	GLOBAL	Cartesian	1.110E-16	2.00000	0.87667	Yes	1.110E-16
715	GLOBAL	Cartesian	1.110E-16	1.89500	0.84853	Yes	1.110E-16
716	GLOBAL	Cartesian	2.220E-16	1.81813	0.77167	Yes	2.220E-16
717	GLOBAL	Cartesian	2.220E-16	1.81813	0.56167	Yes	2.220E-16
718	GLOBAL	Cartesian	2.220E-16	1.89500	0.48480	Yes	2.220E-16
719	GLOBAL	Cartesian	1.286E-17	2.21000	0.66667	No	1.286E-17
720	GLOBAL	Cartesian	-3.858E-17	1.79000	0.66667	No	-3.858E-17
721	GLOBAL	Cartesian	2.220E-16	3.00000	0.45667	Yes	2.220E-16
722	GLOBAL	Cartesian	2.220E-16	3.10500	0.48480	Yes	2.220E-16
723	GLOBAL	Cartesian	2.220E-16	3.18187	0.56167	Yes	2.220E-16
724	GLOBAL	Cartesian	2.220E-16	3.18187	0.77167	Yes	2.220E-16
725	GLOBAL	Cartesian	1.110E-16	3.10500	0.84853	Yes	1.110E-16
726	GLOBAL	Cartesian	1.110E-16	3.00000	0.87667	Yes	1.110E-16
727	GLOBAL	Cartesian	1.110E-16	2.89500	0.84853	Yes	1.110E-16
728	GLOBAL	Cartesian	2.220E-16	2.81813	0.77167	Yes	2.220E-16
729	GLOBAL	Cartesian	2.220E-16	2.81813	0.56167	Yes	2.220E-16
730	GLOBAL	Cartesian	2.220E-16	2.89500	0.48480	Yes	2.220E-16
731	GLOBAL	Cartesian	1.286E-17	3.21000	0.66667	No	1.286E-17
732	GLOBAL	Cartesian	-3.858E-17	2.79000	0.66667	No	-3.858E-17
733	GLOBAL	Cartesian	2.220E-16	1.00000	1.12333	Yes	2.220E-16
734	GLOBAL	Cartesian	2.220E-16	1.10500	1.15147	Yes	2.220E-16
735	GLOBAL	Cartesian	2.220E-16	1.18187	1.22833	Yes	2.220E-16
736	GLOBAL	Cartesian	2.220E-16	1.18187	1.43833	Yes	2.220E-16
737	GLOBAL	Cartesian	1.110E-16	1.10500	1.51520	Yes	1.110E-16
738	GLOBAL	Cartesian	1.110E-16	1.00000	1.54333	Yes	1.110E-16
739	GLOBAL	Cartesian	1.110E-16	0.89500	1.51520	Yes	1.110E-16
740	GLOBAL	Cartesian	2.220E-16	0.81813	1.43833	Yes	2.220E-16
741	GLOBAL	Cartesian	2.220E-16	0.81813	1.22833	Yes	2.220E-16
742	GLOBAL	Cartesian	2.220E-16	0.89500	1.15147	Yes	2.220E-16
743	GLOBAL	Cartesian	1.286E-17	1.21000	1.33333	No	1.286E-17
744	GLOBAL	Cartesian	-3.858E-17	0.79000	1.33333	No	-3.858E-17
745	GLOBAL	Cartesian	2.220E-16	2.00000	1.12333	Yes	2.220E-16
746	GLOBAL	Cartesian	2.220E-16	2.10500	1.15147	Yes	2.220E-16
747	GLOBAL	Cartesian	2.220E-16	2.18187	1.22833	Yes	2.220E-16
748	GLOBAL	Cartesian	2.220E-16	2.18187	1.43833	Yes	2.220E-16
749	GLOBAL	Cartesian	1.110E-16	2.10500	1.51520	Yes	1.110E-16
750	GLOBAL	Cartesian	1.110E-16	2.00000	1.54333	Yes	1.110E-16
751	GLOBAL	Cartesian	1.110E-16	1.89500	1.51520	Yes	1.110E-16
752	GLOBAL	Cartesian	2.220E-16	1.81813	1.43833	Yes	2.220E-16
753	GLOBAL	Cartesian	2.220E-16	1.81813	1.22833	Yes	2.220E-16
754	GLOBAL	Cartesian	2.220E-16	1.89500	1.15147	Yes	2.220E-16
755	GLOBAL	Cartesian	1.286E-17	2.21000	1.33333	No	1.286E-17
756	GLOBAL	Cartesian	-3.858E-17	1.79000	1.33333	No	-3.858E-17
757	GLOBAL	Cartesian	2.220E-16	3.00000	1.12333	Yes	2.220E-16
758	GLOBAL	Cartesian	2.220E-16	3.10500	1.15147	Yes	2.220E-16
759	GLOBAL	Cartesian	2.220E-16	3.18187	1.22833	Yes	2.220E-16
760	GLOBAL	Cartesian	2.220E-16	3.18187	1.43833	Yes	2.220E-16
761	GLOBAL	Cartesian	1.110E-16	3.10500	1.51520	Yes	1.110E-16
762	GLOBAL	Cartesian	1.110E-16	3.00000	1.54333	Yes	1.110E-16
763	GLOBAL	Cartesian	1.110E-16	2.89500	1.51520	Yes	1.110E-16
764	GLOBAL	Cartesian	2.220E-16	2.81813	1.43833	Yes	2.220E-16
765	GLOBAL	Cartesian	2.220E-16	2.81813	1.22833	Yes	2.220E-16
766	GLOBAL	Cartesian	2.220E-16	2.89500	1.15147	Yes	2.220E-16
767	GLOBAL	Cartesian	1.286E-17	3.21000	1.33333	No	1.286E-17
768	GLOBAL	Cartesian	-3.858E-17	2.79000	1.33333	No	-3.858E-17
861	GLOBAL	Cartesian	5.00000	1.00000	0.45667	Yes	5.00000
862	GLOBAL	Cartesian	5.00000	1.10500	0.48480	Yes	5.00000
863	GLOBAL	Cartesian	5.00000	1.18187	0.56167	Yes	5.00000
864	GLOBAL	Cartesian	5.00000	1.18187	0.77167	Yes	5.00000
865	GLOBAL	Cartesian	5.00000	1.10500	0.84853	Yes	5.00000
866	GLOBAL	Cartesian	5.00000	1.00000	0.87667	Yes	5.00000
867	GLOBAL	Cartesian	5.00000	0.89500	0.84853	Yes	5.00000
868	GLOBAL	Cartesian	5.00000	0.81813	0.77167	Yes	5.00000
869	GLOBAL	Cartesian	5.00000	0.81813	0.56167	Yes	5.00000

870	GLOBAL	Cartesian	5.00000	0.89500	0.48480	Yes	5.00000
871	GLOBAL	Cartesian	5.00000	1.21000	0.66667	No	5.00000
872	GLOBAL	Cartesian	5.00000	0.79000	0.66667	No	5.00000
879	GLOBAL	Cartesian	5.00000	2.00000	0.45667	Yes	5.00000
880	GLOBAL	Cartesian	5.00000	2.10500	0.48480	Yes	5.00000
881	GLOBAL	Cartesian	5.00000	2.18187	0.56167	Yes	5.00000
882	GLOBAL	Cartesian	5.00000	2.18187	0.77167	Yes	5.00000
883	GLOBAL	Cartesian	5.00000	2.10500	0.84853	Yes	5.00000
884	GLOBAL	Cartesian	5.00000	2.00000	0.87667	Yes	5.00000
885	GLOBAL	Cartesian	5.00000	1.89500	0.84853	Yes	5.00000
886	GLOBAL	Cartesian	5.00000	1.81813	0.77167	Yes	5.00000
887	GLOBAL	Cartesian	5.00000	1.81813	0.56167	Yes	5.00000
888	GLOBAL	Cartesian	5.00000	1.89500	0.48480	Yes	5.00000
889	GLOBAL	Cartesian	5.00000	2.21000	0.66667	No	5.00000
890	GLOBAL	Cartesian	5.00000	1.79000	0.66667	No	5.00000
891	GLOBAL	Cartesian	5.00000	3.00000	0.45667	Yes	5.00000
892	GLOBAL	Cartesian	5.00000	3.10500	0.48480	Yes	5.00000
893	GLOBAL	Cartesian	5.00000	3.18187	0.56167	Yes	5.00000
894	GLOBAL	Cartesian	5.00000	3.18187	0.77167	Yes	5.00000
895	GLOBAL	Cartesian	5.00000	3.10500	0.84853	Yes	5.00000
896	GLOBAL	Cartesian	5.00000	3.00000	0.87667	Yes	5.00000
897	GLOBAL	Cartesian	5.00000	2.89500	0.84853	Yes	5.00000
898	GLOBAL	Cartesian	5.00000	2.81813	0.77167	Yes	5.00000
899	GLOBAL	Cartesian	5.00000	2.81813	0.56167	Yes	5.00000
900	GLOBAL	Cartesian	5.00000	2.89500	0.48480	Yes	5.00000
901	GLOBAL	Cartesian	5.00000	3.21000	0.66667	No	5.00000
902	GLOBAL	Cartesian	5.00000	2.79000	0.66667	No	5.00000
903	GLOBAL	Cartesian	5.00000	1.00000	1.12333	Yes	5.00000
904	GLOBAL	Cartesian	5.00000	1.10500	1.15147	Yes	5.00000
905	GLOBAL	Cartesian	5.00000	1.18187	1.22833	Yes	5.00000
906	GLOBAL	Cartesian	5.00000	1.18187	1.43833	Yes	5.00000
907	GLOBAL	Cartesian	5.00000	1.10500	1.51520	Yes	5.00000
908	GLOBAL	Cartesian	5.00000	1.00000	1.54333	Yes	5.00000
909	GLOBAL	Cartesian	5.00000	0.89500	1.51520	Yes	5.00000
910	GLOBAL	Cartesian	5.00000	0.81813	1.43833	Yes	5.00000
911	GLOBAL	Cartesian	5.00000	0.81813	1.22833	Yes	5.00000
912	GLOBAL	Cartesian	5.00000	0.89500	1.15147	Yes	5.00000
913	GLOBAL	Cartesian	5.00000	1.21000	1.33333	No	5.00000
914	GLOBAL	Cartesian	5.00000	0.79000	1.33333	No	5.00000
915	GLOBAL	Cartesian	5.00000	2.00000	1.12333	Yes	5.00000
916	GLOBAL	Cartesian	5.00000	2.10500	1.15147	Yes	5.00000
917	GLOBAL	Cartesian	5.00000	2.18187	1.22833	Yes	5.00000
918	GLOBAL	Cartesian	5.00000	2.18187	1.43833	Yes	5.00000
919	GLOBAL	Cartesian	5.00000	2.10500	1.51520	Yes	5.00000
920	GLOBAL	Cartesian	5.00000	2.00000	1.54333	Yes	5.00000
921	GLOBAL	Cartesian	5.00000	1.89500	1.51520	Yes	5.00000
922	GLOBAL	Cartesian	5.00000	1.81813	1.43833	Yes	5.00000
923	GLOBAL	Cartesian	5.00000	1.81813	1.22833	Yes	5.00000
924	GLOBAL	Cartesian	5.00000	1.89500	1.15147	Yes	5.00000
925	GLOBAL	Cartesian	5.00000	2.21000	1.33333	No	5.00000
926	GLOBAL	Cartesian	5.00000	1.79000	1.33333	No	5.00000
927	GLOBAL	Cartesian	5.00000	3.00000	1.12333	Yes	5.00000
928	GLOBAL	Cartesian	5.00000	3.10500	1.15147	Yes	5.00000
929	GLOBAL	Cartesian	5.00000	3.18187	1.22833	Yes	5.00000
930	GLOBAL	Cartesian	5.00000	3.18187	1.43833	Yes	5.00000
931	GLOBAL	Cartesian	5.00000	3.10500	1.51520	Yes	5.00000
932	GLOBAL	Cartesian	5.00000	3.00000	1.54333	Yes	5.00000
933	GLOBAL	Cartesian	5.00000	2.89500	1.51520	Yes	5.00000
934	GLOBAL	Cartesian	5.00000	2.81813	1.43833	Yes	5.00000
935	GLOBAL	Cartesian	5.00000	2.81813	1.22833	Yes	5.00000
936	GLOBAL	Cartesian	5.00000	2.89500	1.15147	Yes	5.00000
937	GLOBAL	Cartesian	5.00000	3.21000	1.33333	No	5.00000
938	GLOBAL	Cartesian	5.00000	2.79000	1.33333	No	5.00000
942	GLOBAL	Cartesian	5.00000	0.00000	1.32000	No	5.00000
943	GLOBAL	Cartesian	5.00000	0.00000	0.66000	No	5.00000
944	GLOBAL	Cartesian	1.00000	0.00000	0.00000	No	1.00000
947	GLOBAL	Cartesian	2.00000	0.00000	2.16000	No	2.00000
948	GLOBAL	Cartesian	3.00000	0.00000	0.00000	No	3.00000
949	GLOBAL	Cartesian	3.00000	0.00000	2.16000	No	3.00000
950	GLOBAL	Cartesian	4.00000	0.00000	0.00000	No	4.00000
964	GLOBAL	Cartesian	1.00000	0.00000	2.07937	No	1.00000
967	GLOBAL	Cartesian	4.00000	0.00000	2.08065	No	4.00000
980	GLOBAL	Cartesian	2.81813	6.429E-19	0.77170	Yes	2.81813
981	GLOBAL	Cartesian	2.89500	1.114E-17	0.84857	Yes	2.89500
982	GLOBAL	Cartesian	3.10500	1.114E-17	0.84857	Yes	3.10500
983	GLOBAL	Cartesian	3.18187	6.429E-18	0.77170	Yes	3.18187
984	GLOBAL	Cartesian	3.18187	-6.429E-18	0.56170	Yes	3.18187
985	GLOBAL	Cartesian	3.10500	-1.114E-17	0.48483	Yes	3.10500
986	GLOBAL	Cartesian	3.00000	-1.286E-17	0.45670	Yes	3.00000
987	GLOBAL	Cartesian	2.89500	-1.114E-17	0.48483	Yes	2.89500
988	GLOBAL	Cartesian	2.81813	-6.429E-18	0.56170	Yes	2.81813
989	GLOBAL	Cartesian	3.00000	1.286E-17	0.87670	No	3.00000
990	GLOBAL	Cartesian	3.21000	0.00000	0.66670	No	3.21000
991	GLOBAL	Cartesian	2.79000	2.572E-17	0.66670	No	2.79000
992	GLOBAL	Cartesian	3.81813	6.429E-18	0.77170	Yes	3.81813
993	GLOBAL	Cartesian	3.89500	1.114E-17	0.84857	Yes	3.89500
994	GLOBAL	Cartesian	4.10500	1.114E-17	0.84857	Yes	4.10500
995	GLOBAL	Cartesian	4.18187	6.429E-18	0.77170	Yes	4.18187
996	GLOBAL	Cartesian	4.18187	-6.429E-18	0.56170	Yes	4.18187
997	GLOBAL	Cartesian	4.10500	-1.114E-17	0.48483	Yes	4.10500
998	GLOBAL	Cartesian	4.00000	-1.286E-17	0.45670	Yes	4.00000
999	GLOBAL	Cartesian	3.89500	-1.114E-17	0.48483	Yes	3.89500
1000	GLOBAL	Cartesian	3.81813	-6.429E-18	0.56170	Yes	3.81813
1001	GLOBAL	Cartesian	4.00000	1.286E-17	0.87670	No	4.00000
1002	GLOBAL	Cartesian	4.21000	0.00000	0.66670	No	4.21000

1003	GLOBAL	Cartesian	3.79000	2.572E-17	0.66670	No	3.79000
1016	GLOBAL	Cartesian	2.81813	6.429E-18	1.43837	Yes	2.81813
1017	GLOBAL	Cartesian	2.89500	1.114E-17	1.51523	Yes	2.89500
1018	GLOBAL	Cartesian	3.10500	1.114E-17	1.51523	Yes	3.10500
1019	GLOBAL	Cartesian	3.18187	6.429E-18	1.43837	Yes	3.18187
1020	GLOBAL	Cartesian	3.18187	-6.429E-18	1.22837	Yes	3.18187
1021	GLOBAL	Cartesian	3.10500	-1.114E-17	1.51510	Yes	3.10500
1022	GLOBAL	Cartesian	3.00000	-1.286E-17	1.12337	Yes	3.00000
1023	GLOBAL	Cartesian	2.89500	-1.114E-17	1.51510	Yes	2.89500
1024	GLOBAL	Cartesian	2.81813	-6.429E-18	1.22837	Yes	2.81813
1025	GLOBAL	Cartesian	3.00000	1.286E-17	1.54337	No	3.00000
1026	GLOBAL	Cartesian	3.21000	0.00000	1.33337	No	3.21000
1027	GLOBAL	Cartesian	2.79000	2.572E-17	1.33337	No	2.79000
1028	GLOBAL	Cartesian	3.81813	6.429E-18	1.43837	Yes	3.81813
1029	GLOBAL	Cartesian	3.89500	1.114E-17	1.51523	Yes	3.89500
1030	GLOBAL	Cartesian	4.10500	1.114E-17	1.51523	Yes	4.10500
1031	GLOBAL	Cartesian	4.18187	6.429E-18	1.43837	Yes	4.18187
1032	GLOBAL	Cartesian	4.18187	-6.429E-18	1.22837	Yes	4.18187
1033	GLOBAL	Cartesian	4.10500	-1.114E-17	1.51510	Yes	4.10500
1034	GLOBAL	Cartesian	4.00000	-1.286E-17	1.12337	Yes	4.00000
1035	GLOBAL	Cartesian	3.89500	-1.114E-17	1.51510	Yes	3.89500
1036	GLOBAL	Cartesian	3.81813	-6.429E-18	1.22837	Yes	3.81813
1037	GLOBAL	Cartesian	4.00000	1.286E-17	1.54337	No	4.00000
1038	GLOBAL	Cartesian	4.21000	0.00000	1.33337	No	4.21000
1039	GLOBAL	Cartesian	3.79000	2.572E-17	1.33337	No	3.79000
1052	GLOBAL	Cartesian	0.81813	6.429E-18	1.43840	Yes	0.81813
1053	GLOBAL	Cartesian	0.89500	1.114E-17	1.51527	Yes	0.89500
1058	GLOBAL	Cartesian	1.00000	-1.286E-17	1.12340	Yes	1.00000
1059	GLOBAL	Cartesian	0.89500	-1.114E-17	1.51513	Yes	0.89500
1060	GLOBAL	Cartesian	0.81813	-6.429E-18	1.22840	Yes	0.81813
1061	GLOBAL	Cartesian	1.00000	1.286E-17	1.54340	No	1.00000
1063	GLOBAL	Cartesian	0.79000	2.572E-17	1.33340	No	0.79000
1064	GLOBAL	Cartesian	0.00000	4.00000	0.50000	Yes	0.00000
1066	GLOBAL	Cartesian	0.00000	4.00000	1.00000	Yes	0.00000
1067	GLOBAL	Cartesian	0.00000	4.00000	1.50000	Yes	0.00000
1068	GLOBAL	Cartesian	2.52000	4.00000	2.20000	Yes	2.52000
1072	GLOBAL	Cartesian	0.81813	4.00000	0.77170	Yes	0.81813
1073	GLOBAL	Cartesian	0.89500	4.00000	0.84857	Yes	0.89500
1074	GLOBAL	Cartesian	1.286E-17	4.00000	0.21000	Yes	1.286E-17
1075	GLOBAL	Cartesian	1.10500	4.00000	0.84857	Yes	1.10500
1076	GLOBAL	Cartesian	1.18187	4.00000	0.77170	Yes	1.18187
1077	GLOBAL	Cartesian	1.18187	4.00000	0.56170	Yes	1.18187
1078	GLOBAL	Cartesian	1.10500	4.00000	0.48483	Yes	1.10500
1079	GLOBAL	Cartesian	1.00000	4.00000	0.45670	Yes	1.00000
1080	GLOBAL	Cartesian	0.89500	4.00000	0.48483	Yes	0.89500
1081	GLOBAL	Cartesian	0.81813	4.00000	0.56170	Yes	0.81813
1082	GLOBAL	Cartesian	1.00000	4.00000	0.87670	No	1.00000
1083	GLOBAL	Cartesian	1.21000	4.00000	0.66670	No	1.21000
1084	GLOBAL	Cartesian	0.79000	4.00000	0.66670	No	0.79000
1085	GLOBAL	Cartesian	1.00000	4.00000	0.00000	No	1.00000
1087	GLOBAL	Cartesian	2.00000	4.00000	0.00000	No	2.00000
1088	GLOBAL	Cartesian	2.00032	4.00000	2.15884	No	2.00032
1089	GLOBAL	Cartesian	3.00000	4.00000	0.00000	No	3.00000
1090	GLOBAL	Cartesian	3.00031	4.00000	2.16137	No	3.00031
1091	GLOBAL	Cartesian	4.00000	4.00000	0.00000	No	4.00000
1105	GLOBAL	Cartesian	1.00000	4.00000	2.07937	No	1.00000
1108	GLOBAL	Cartesian	4.00000	4.00000	2.08065	No	4.00000
1109	GLOBAL	Cartesian	1.81813	4.00000	0.77170	Yes	1.81813
1110	GLOBAL	Cartesian	1.89500	4.00000	0.84857	Yes	1.89500
1111	GLOBAL	Cartesian	2.10500	4.00000	0.84857	Yes	2.10500
1112	GLOBAL	Cartesian	2.18187	4.00000	0.77170	Yes	2.18187
1113	GLOBAL	Cartesian	2.16187	4.00000	0.56170	Yes	2.16187
1114	GLOBAL	Cartesian	2.10500	4.00000	0.48483	Yes	2.10500
1115	GLOBAL	Cartesian	2.00000	4.00000	0.45670	Yes	2.00000
1116	GLOBAL	Cartesian	1.89500	4.00000	0.48483	Yes	1.89500
1117	GLOBAL	Cartesian	1.81813	4.00000	0.56170	Yes	1.81813
1118	GLOBAL	Cartesian	2.00000	4.00000	0.87670	No	2.00000
1119	GLOBAL	Cartesian	2.21000	4.00000	0.66670	No	2.21000
1120	GLOBAL	Cartesian	1.79000	4.00000	0.66670	No	1.79000
1121	GLOBAL	Cartesian	2.81813	4.00000	0.77170	Yes	2.81813
1122	GLOBAL	Cartesian	2.89500	4.00000	0.84857	Yes	2.89500
1123	GLOBAL	Cartesian	3.10500	4.00000	0.84857	Yes	3.10500
1124	GLOBAL	Cartesian	3.18187	4.00000	0.77170	Yes	3.18187
1125	GLOBAL	Cartesian	3.18187	4.00000	0.56170	Yes	3.18187
1126	GLOBAL	Cartesian	3.10500	4.00000	0.48483	Yes	3.10500
1127	GLOBAL	Cartesian	3.00000	4.00000	0.45670	Yes	3.00000
1128	GLOBAL	Cartesian	2.89500	4.00000	0.48483	Yes	2.89500
1129	GLOBAL	Cartesian	2.81813	4.00000	0.56170	Yes	2.81813
1130	GLOBAL	Cartesian	3.00000	4.00000	0.87670	No	3.00000
1131	GLOBAL	Cartesian	3.21000	4.00000	0.66670	No	3.21000
1132	GLOBAL	Cartesian	2.79000	4.00000	0.66670	No	2.79000
1133	GLOBAL	Cartesian	3.81813	4.00000	0.77170	Yes	3.81813
1134	GLOBAL	Cartesian	3.89500	4.00000	0.84857	Yes	3.89500
1135	GLOBAL	Cartesian	4.10500	4.00000	0.84857	Yes	4.10500
1136	GLOBAL	Cartesian	4.18187	4.00000	0.77170	Yes	4.18187
1137	GLOBAL	Cartesian	4.18187	4.00000	0.56170	Yes	4.18187
1138	GLOBAL	Cartesian	4.10500	4.00000	0.48483	Yes	4.10500
1139	GLOBAL	Cartesian	4.00000	4.00000	0.45670	Yes	4.00000
1140	GLOBAL	Cartesian	3.89500	4.00000	0.48483	Yes	3.89500
1141	GLOBAL	Cartesian	3.81813	4.00000	0.56170	Yes	3.81813
1142	GLOBAL	Cartesian	4.00000	4.00000	0.87670	No	4.00000
1143	GLOBAL	Cartesian	4.21000	4.00000	0.66670	No	4.21000
1144	GLOBAL	Cartesian	3.79000	4.00000	0.66670	No	3.79000
1145	GLOBAL	Cartesian	1.81813	4.00000	1.43837	Yes	1.81813
1146	GLOBAL	Cartesian	1.89500	4.00000	1.51523	Yes	1.89500

1147	GLOBAL	Cartesian	2.10500	4.00000	1.51523	Yes	2.10500
1148	GLOBAL	Cartesian	2.18187	4.00000	1.43837	Yes	2.18187
1149	GLOBAL	Cartesian	2.18187	4.00000	1.22837	Yes	2.18187
1150	GLOBAL	Cartesian	2.10500	4.00000	1.15150	Yes	2.10500
1151	GLOBAL	Cartesian	2.00000	4.00000	1.12337	Yes	2.00000
1152	GLOBAL	Cartesian	1.89500	4.00000	1.15150	Yes	1.89500
1153	GLOBAL	Cartesian	1.81813	4.00000	1.22837	Yes	1.81813
1154	GLOBAL	Cartesian	2.00000	4.00000	1.54337	No	2.00000
1155	GLOBAL	Cartesian	2.21000	4.00000	1.33337	No	2.21000
1156	GLOBAL	Cartesian	1.79000	4.00000	1.33337	No	1.79000
1157	GLOBAL	Cartesian	2.81813	4.00000	1.43837	Yes	2.81813
1158	GLOBAL	Cartesian	2.89500	4.00000	1.51523	Yes	2.89500
1159	GLOBAL	Cartesian	3.10500	4.00000	1.51523	Yes	3.10500
1160	GLOBAL	Cartesian	3.18187	4.00000	1.43837	Yes	3.18187
1161	GLOBAL	Cartesian	3.18187	4.00000	1.22837	Yes	3.18187
1162	GLOBAL	Cartesian	3.10500	4.00000	1.15150	Yes	3.10500
1163	GLOBAL	Cartesian	3.00000	4.00000	1.12337	Yes	3.00000
1164	GLOBAL	Cartesian	2.89500	4.00000	1.15150	Yes	2.89500
1165	GLOBAL	Cartesian	2.81813	4.00000	1.22837	Yes	2.81813
1166	GLOBAL	Cartesian	3.00000	4.00000	1.54337	No	3.00000
1167	GLOBAL	Cartesian	3.21000	4.00000	1.33337	No	3.21000
1168	GLOBAL	Cartesian	2.79000	4.00000	1.33337	No	2.79000
1169	GLOBAL	Cartesian	3.81813	4.00000	1.43837	Yes	3.81813
1170	GLOBAL	Cartesian	3.89500	4.00000	1.51523	Yes	3.89500
1171	GLOBAL	Cartesian	4.10500	4.00000	1.51523	Yes	4.10500
1172	GLOBAL	Cartesian	4.18187	4.00000	1.43837	Yes	4.18187
1173	GLOBAL	Cartesian	4.18187	4.00000	1.22837	Yes	4.18187
1174	GLOBAL	Cartesian	4.10500	4.00000	1.15150	Yes	4.10500
1175	GLOBAL	Cartesian	4.00000	4.00000	1.12337	Yes	4.00000
1176	GLOBAL	Cartesian	3.89500	4.00000	1.15150	Yes	3.89500
1177	GLOBAL	Cartesian	3.81813	4.00000	1.22837	Yes	3.81813
1178	GLOBAL	Cartesian	4.00000	4.00000	1.54337	No	4.00000
1179	GLOBAL	Cartesian	4.21000	4.00000	1.33337	No	4.21000
1180	GLOBAL	Cartesian	3.79000	4.00000	1.33337	No	3.79000
1181	GLOBAL	Cartesian	0.81813	4.00000	1.43840	Yes	0.81813
1182	GLOBAL	Cartesian	0.89500	4.00000	1.51527	Yes	0.89500
1183	GLOBAL	Cartesian	1.10500	4.00000	1.51527	Yes	1.10500
1184	GLOBAL	Cartesian	1.18187	4.00000	1.43840	Yes	1.18187
1185	GLOBAL	Cartesian	1.18187	4.00000	1.22840	Yes	1.18187
1186	GLOBAL	Cartesian	1.10500	4.00000	1.15153	Yes	1.10500
1187	GLOBAL	Cartesian	1.00000	4.00000	1.12340	Yes	1.00000
1188	GLOBAL	Cartesian	0.89500	4.00000	1.15153	Yes	0.89500
1189	GLOBAL	Cartesian	0.81813	4.00000	1.22840	Yes	0.81813
1190	GLOBAL	Cartesian	1.00000	4.00000	1.54340	No	1.00000
1191	GLOBAL	Cartesian	1.21000	4.00000	1.33340	No	1.21000
1192	GLOBAL	Cartesian	0.79000	4.00000	1.33340	No	0.79000
1198	GLOBAL	Cartesian	4.00000	1.00000	2.08000	No	4.00000
1206	GLOBAL	Cartesian	1.00000	1.00000	2.08000	No	1.00000
1210	GLOBAL	Cartesian	4.00000	3.00000	2.08000	No	4.00000
1216	GLOBAL	Cartesian	1.00000	3.00000	2.08000	No	1.00000
1219	GLOBAL	Cartesian	1.00000	2.00000	2.07937	No	1.00000
1220	GLOBAL	Cartesian	4.00000	2.00000	2.08065	No	4.00000
1223	GLOBAL	Cartesian	2.00000	3.00000	2.16000	No	2.00000
1224	GLOBAL	Cartesian	2.00000	2.00000	2.16000	No	2.00000
1225	GLOBAL	Cartesian	2.00000	1.00000	2.16000	No	2.00000
1226	GLOBAL	Cartesian	3.00000	3.00000	2.16000	No	3.00000
1227	GLOBAL	Cartesian	3.00000	2.00000	2.16000	No	3.00000
1228	GLOBAL	Cartesian	3.00000	1.00000	2.16000	No	3.00000

Table: Joint Coordinates, Part 2 of 2

Joint	GlobalY m	GlobalZ m	GUID
1	0.00000	0.00000	
2	4.00000	2.18000	
3	1.00000	0.00000	
4	2.00000	0.00000	
5	3.00000	0.00000	
6	6.940E-18	0.78004	
7	3.00000	2.08000	
8	4.00000	2.14000	
9	-7.027E-18	0.55193	
10	0.00000	0.00000	
11	0.00000	0.33166	
12	4.00000	2.12000	
13	4.00000	2.10000	
14	3.10500	2.08000	
15	0.00000	1.74667	
16	4.00000	2.06000	
17	4.00000	2.04000	
18	4.00000	2.02000	
19	0.00000	1.00000	
20	0.00000	1.21860	
21	0.00000	1.45604	
22	0.00000	1.72583	
23	0.00000	0.33333	
24	0.00000	0.55193	
25	0.00000	0.78143	
26	0.00000	1.00000	
27	0.00000	0.50000	
28	0.00000	1.21860	
29	0.00000	1.44809	
30	0.00000	1.68239	

97

31	0.00000	0.33333
32	0.00000	0.55193
33	0.00000	0.78004
34	0.00000	0.99497
35	0.00000	0.33166
36	0.00000	1.75000
37	0.00000	0.55193
38	0.00000	0.78143
39	1.00000	0.00000
40	0.00000	1.21860
41	2.00000	0.00000
42	0.00000	1.46317
43	3.00000	0.00000
44	0.00000	0.55193
45	4.00000	0.00000
46	0.00000	0.78143
47	3.18187	2.08000
48	3.21000	2.08000
49	3.18187	2.08000
50	3.10500	2.08000
51	3.00000	2.08000
52	2.89500	2.08000
53	0.00000	1.44811
54	0.00000	0.99497
55	0.00000	1.00000
56	0.00000	1.21791
57	0.00000	1.50000
58	0.00000	1.21793
59	0.00000	2.00000
60	2.81813	2.08000
61	0.00000	1.46317
62	4.00000	0.78004
63	4.00000	0.78143
64	4.00000	0.55193
65	4.00000	0.55193
66	4.00000	0.33166
67	4.00000	1.00000
68	4.00000	1.21860
69	4.00000	1.46317
70	4.00000	1.74667
71	4.00000	0.33333
72	4.00000	0.55193
73	4.00000	0.78143
74	4.00000	1.00000
75	4.00000	1.21860
76	4.00000	1.45604
77	0.00000	2.20000
78	4.00000	1.72583
79	4.00000	0.33333
80	4.00000	0.55193
81	4.00000	0.78143
82	4.00000	1.00000
83	4.00000	1.21860
84	4.00000	1.44809
85	4.00000	1.68239
86	4.00000	0.33333
87	4.00000	0.55193
88	2.79000	2.08000
89	4.00000	0.78004
90	4.00000	0.99497
91	0.00000	0.00000
92	4.00000	0.33166
93	4.00000	0.55193
94	0.00000	2.00000
95	4.00000	0.78143
96	4.00000	1.21860
97	4.00000	1.46317
98	4.00000	0.55193
99	4.00000	0.78143
100	4.00000	1.21860
101	4.00000	1.45592
102	4.00000	1.72547
103	4.00000	0.55193
104	4.00000	0.78143
105	4.00000	1.21861
106	4.00000	1.44811
107	4.00000	0.99497
108	4.00000	1.21791
109	4.00000	1.21793
110	4.00000	1.46319
111	4.00000	1.46317
112	1.16879	0.54860
113	1.17212	0.78141
114	0.82317	0.77671
115	0.82788	0.55192
116	0.49749	0.33166
117	2.81813	2.08000
118	1.50000	1.00000
119	0.50000	2.00000
120	1.00000	2.00000
121	1.50000	2.00000
122	2.00000	2.00000
123	2.50000	2.00000
124	3.00000	2.00000
125	3.50000	2.00000

126	4.00000	2.00000
127	1.82788	1.21859
128	2.89500	2.08000
129	2.17212	1.44808
130	2.49875	1.66584
131	1.49749	0.33166
132	1.82788	0.55192
134	2.17212	0.78141
135	2.50000	1.00000
136	4.00000	0.00000
137	2.82788	1.21859
139	3.17212	1.44808
140	3.49505	1.66337
141	2.50251	0.33166
142	2.83121	0.54860
144	3.17683	0.77671
145	3.50376	0.99248
146	3.50251	0.33166
147	3.17212	0.55192
149	2.17212	1.21859
150	1.00000	2.00000
151	1.82788	1.44808
152	1.50495	1.66337
153	2.17212	0.55192
154	1.82788	0.78141
155	1.17212	1.21859
156	2.00000	2.00000
158	0.82788	1.44808
159	0.50495	1.66337
160	0.50000	0.99000
161	3.16978	1.21625
162	3.00000	2.00000
163	2.82623	1.44643
164	0.83522	1.21125
165	1.17869	1.44151
166	1.16879	0.54860
167	1.17212	0.78141
168	4.00000	2.00000
169	0.82317	0.77671
170	0.82788	0.55192
171	0.49749	0.33166
173	1.50000	1.00000
174	1.82788	1.21859
176	2.17212	1.44808
177	2.49875	1.66584
178	1.49749	0.33166
179	1.82788	0.55192
181	2.17212	0.78141
182	2.50000	1.00000
183	2.82788	1.21859
185	3.17212	1.44808
186	3.49505	1.66337
187	2.50251	0.33166
188	2.83121	0.54860
190	3.17683	0.77671
191	3.50376	0.99248
192	3.50251	0.33166
193	3.17212	0.55192
194	2.82788	0.78141
195	2.17212	1.21859
196	1.82788	1.44808
197	1.50495	1.66337
198	2.17212	0.55192
199	1.82788	0.78141
200	1.17212	1.21859
202	0.82788	1.44808
203	0.50495	1.66337
204	0.50000	0.99000
205	3.16978	1.21625
206	2.82623	1.44643
207	0.83522	1.21125
208	1.17869	1.44151
210	0.00000	1.75000
211	0.00000	1.49867
212	0.00000	0.80000
213	0.00000	0.13333
214	0.00000	1.20000
215	0.00000	0.53333
216	0.00000	1.75000
217	0.00000	1.75000
218	0.00000	2.17460
219	0.50000	2.04000
220	1.50000	2.12000
221	2.50000	2.16000
222	3.50000	2.12032
223	0.50000	2.11968
224	1.50000	2.16000
225	2.50000	2.12000
226	3.50000	2.04000
227	1.50000	2.12032
228	2.50000	2.04032
229	0.50000	2.12000
230	1.50000	2.04000
231	0.50000	2.04000
232	3.50000	2.11968

233	3.50000	2.04000
234	2.50000	2.12000
235	1.50000	2.04000
248	1.00000	2.08000
249	1.10500	2.08000
250	1.18187	2.08000
251	1.21000	2.08000
252	1.18187	2.08000
253	1.10500	2.08000
254	1.00000	2.08000
255	0.89500	2.08000
256	0.81813	2.08000
257	0.79000	2.08000
258	0.81813	2.08000
259	0.89500	2.08000
260	2.00000	2.08000
261	2.10500	2.08000
262	2.18187	2.08000
263	2.21000	2.08000
264	2.18187	2.08000
265	2.10500	2.08000
266	2.00000	2.08000
267	1.89500	2.08000
268	1.81813	2.08000
269	1.79000	2.08000
270	1.81813	2.08000
271	1.89500	2.08000
272	3.00000	2.08000
273	3.10500	2.08000
274	3.18187	2.08000
275	3.21000	2.08000
276	3.18187	2.08000
277	3.10500	2.08000
278	3.00000	2.08000
279	2.89500	2.08000
280	2.81813	2.08000
281	2.79000	2.08000
282	2.81813	2.08000
283	2.89500	2.08000
284	1.00000	2.16000
285	1.10500	2.16000
286	1.18187	2.16000
287	1.21000	2.16000
288	1.18187	2.16000
289	1.10500	2.16000
290	1.00000	2.16000
291	0.89500	2.16000
292	0.81813	2.16000
293	0.79000	2.16000
294	0.81813	2.16000
295	0.89500	2.16000
296	2.00000	2.16000
297	2.10500	2.16000
298	2.18187	2.16000
299	2.21000	2.16000
300	2.18187	2.16000
301	2.10500	2.16000
302	2.00000	2.16000
303	1.89500	2.16000
304	1.81813	2.16000
305	1.79000	2.16000
306	1.81813	2.16000
307	1.89500	2.16000
308	3.00000	2.16000
309	3.10500	2.16000
310	3.18187	2.16000
311	3.21000	2.16000
312	3.18187	2.16000
313	3.10500	2.16000
314	3.00000	2.16000
315	2.89500	2.16000
316	2.81813	2.16000
317	2.79000	2.16000
318	2.81813	2.16000
319	2.89500	2.16000
320	1.00000	2.16000
321	1.10500	2.16000
322	1.18187	2.16000
323	1.21000	2.16000
324	1.18187	2.16000
325	1.10500	2.16000
326	1.00000	2.16000
327	0.89500	2.16000
328	0.81813	2.16000
329	0.79000	2.16000
330	0.81813	2.16000
331	0.89500	2.16000
332	2.00000	2.16000
333	2.10500	2.16000
334	2.18187	2.16000
335	2.21000	2.16000
336	2.18187	2.16000
337	2.10500	2.16000
338	2.00000	2.16000
339	1.89500	2.16000

340	1.81813	2.16000
341	1.79000	2.16000
342	1.81813	2.16000
343	1.89500	2.16000
344	3.00000	2.16000
345	3.10500	2.16000
346	3.18187	2.16000
347	3.21000	2.16000
348	3.18187	2.16000
349	3.10500	2.16000
350	3.00000	2.16000
351	2.89500	2.16000
352	2.81813	2.16000
353	2.79000	2.16000
354	2.81813	2.16000
355	2.89500	2.16000
356	1.00000	2.08000
357	1.10500	2.08000
358	1.18187	2.08000
359	1.21000	2.08000
360	1.18187	2.08000
361	1.10500	2.08000
362	1.00000	2.08000
363	0.89500	2.08000
364	0.81813	2.08000
365	0.79000	2.08000
366	0.81813	2.08000
367	0.89500	2.08000
368	4.00000	0.66000
369	4.00000	0.66000
370	4.00000	1.32000
371	4.00000	1.32000
372	2.00000	2.08000
373	2.10500	2.08000
374	2.18187	2.08000
375	2.21000	2.08000
376	2.18187	2.08000
377	2.10500	2.08000
378	2.00000	2.08000
379	1.89500	2.08000
380	1.81813	2.08000
381	1.79000	2.08000
382	1.81813	2.08000
383	1.89500	2.08000
523	1.00000	0.45667
524	1.10500	0.48480
525	1.18187	0.56167
526	1.18187	0.77167
527	1.10500	0.84853
528	1.00000	0.87667
529	0.89500	0.84853
530	0.81813	0.77167
531	0.81813	0.56167
532	0.89500	0.48480
533	1.21000	0.66667
534	0.79000	0.66667
535	0.00000	0.66000
536	0.00000	1.32000
577	6.429E-18	0.77170
578	1.114E-17	0.84857
579	1.286E-17	0.21000
584	-1.286E-17	0.45670
585	-1.114E-17	0.48483
586	-6.429E-18	0.56170
587	1.286E-17	0.87670
589	2.572E-17	0.66670
709	2.00000	0.45667
710	2.10500	0.48480
711	2.18187	0.56167
712	2.18187	0.77167
713	2.10500	0.84853
714	2.00000	0.87667
715	1.89500	0.84853
716	1.81813	0.77167
717	1.81813	0.56167
718	1.89500	0.48480
719	2.21000	0.66667
720	1.79000	0.66667
721	3.00000	0.45667
722	3.10500	0.48480
723	3.18187	0.56167
724	3.18187	0.77167
725	3.10500	0.84853
726	3.00000	0.87667
727	2.89500	0.84853
728	2.81813	0.77167
729	2.81813	0.56167
730	2.89500	0.48480
731	3.21000	0.66667
732	2.79000	0.66667
733	1.00000	1.12333
734	1.10500	1.15147
735	1.18187	1.22833
736	1.18187	1.43833
737	1.10500	1.51520

738	1.00000	1.54333
739	0.89500	1.51520
740	0.81813	1.43833
741	0.81813	1.22833
742	0.89500	1.15147
743	1.21000	1.33333
744	0.79000	1.33333
745	2.00000	1.12333
746	2.10500	1.15147
747	2.18187	1.22833
748	2.18187	1.43833
749	2.10500	1.51520
750	2.00000	1.54333
751	1.89500	1.51520
752	1.81813	1.43833
753	1.81813	1.22833
754	1.89500	1.15147
755	2.21000	1.33333
756	1.79000	1.33333
757	3.00000	1.12333
758	3.10500	1.15147
759	3.18187	1.22833
760	3.18187	1.43833
761	3.10500	1.51520
762	3.00000	1.54333
763	2.89500	1.51520
764	2.81813	1.43833
765	2.81813	1.22833
766	2.89500	1.15147
767	3.21000	1.33333
768	2.79000	1.33333
861	1.00000	0.45667
862	1.10500	0.48480
863	1.18187	0.56167
864	1.18187	0.77167
865	1.10500	0.84853
866	1.00000	0.87667
867	0.89500	0.84853
868	0.81813	0.77167
869	0.81813	0.56167
870	0.89500	0.48480
871	1.21000	0.66667
872	0.79000	0.66667
879	2.00000	0.45667
880	2.10500	0.48480
881	2.18187	0.56167
882	2.18187	0.77167
883	2.10500	0.84853
884	2.00000	0.87667
885	1.89500	0.84853
886	1.81813	0.77167
887	1.81813	0.56167
888	1.89500	0.48480
889	2.21000	0.66667
890	1.79000	0.66667
891	3.00000	0.45667
892	3.10500	0.48480
893	3.18187	0.56167
894	3.18187	0.77167
895	3.10500	0.84853
896	3.00000	0.87667
897	2.89500	0.84853
898	2.81813	0.77167
899	2.81813	0.56167
900	2.89500	0.48480
901	3.21000	0.66667
902	2.79000	0.66667
903	1.00000	1.12333
904	1.10500	1.15147
905	1.18187	1.22833
906	1.18187	1.43833
907	1.10500	1.51520
908	1.00000	1.54333
909	0.89500	1.51520
910	0.81813	1.43833
911	0.81813	1.22833
912	0.89500	1.15147
913	1.21000	1.33333
914	0.79000	1.33333
915	2.00000	1.12333
916	2.10500	1.15147
917	2.18187	1.22833
918	2.18187	1.43833
919	2.10500	1.51520
920	2.00000	1.54333
921	1.89500	1.51520
922	1.81813	1.43833
923	1.81813	1.22833
924	1.89500	1.15147
925	2.21000	1.33333
926	1.79000	1.33333
927	3.00000	1.12333
928	3.10500	1.15147
929	3.18187	1.22833
930	3.18187	1.43833

931	3.10500	1.51520
932	3.00000	1.54333
933	2.89500	1.51520
934	2.81813	1.43833
935	2.81813	1.22833
936	2.89500	1.15147
937	3.21000	1.33333
938	2.79000	1.33333
942	0.00000	1.32000
943	0.00000	0.66000
944	0.00000	0.00000
947	0.00000	2.16000
948	0.00000	0.00000
949	0.00000	2.16000
950	0.00000	0.00000
964	0.00000	2.07937
967	0.00000	2.08065
980	6.429E-18	0.77170
981	1.114E-17	0.84857
982	1.114E-17	0.84857
983	6.429E-18	0.77170
984	-6.429E-18	0.56170
985	-1.114E-17	0.48483
986	-1.286E-17	0.45670
987	-1.114E-17	0.48483
988	-6.429E-18	0.56170
989	1.286E-17	0.87670
990	0.00000	0.66670
991	2.572E-17	0.66670
992	6.429E-18	0.77170
993	1.114E-17	0.84857
994	1.114E-17	0.84857
995	6.429E-18	0.77170
996	-6.429E-18	0.56170
997	-1.114E-17	0.48483
998	-1.286E-17	0.45670
999	-1.114E-17	0.48483
1000	-6.429E-18	0.56170
1001	1.286E-17	0.87670
1002	0.00000	0.66670
1003	2.572E-17	0.66670
1016	6.429E-18	1.43837
1017	1.114E-17	1.51523
1018	1.114E-17	1.51523
1019	6.429E-18	1.43837
1020	-6.429E-18	1.22837
1021	-1.114E-17	1.15150
1022	-1.286E-17	1.12337
1023	-1.114E-17	1.15150
1024	-6.429E-18	1.22837
1025	1.286E-17	1.54337
1026	0.00000	1.33337
1027	2.572E-17	1.33337
1028	6.429E-18	1.43837
1029	1.114E-17	1.51523
1030	1.114E-17	1.51523
1031	6.429E-18	1.43837
1032	-6.429E-18	1.22837
1033	-1.114E-17	1.15150
1034	-1.286E-17	1.12337
1035	-1.114E-17	1.15150
1036	-6.429E-18	1.22837
1037	1.286E-17	1.54337
1038	0.00000	1.33337
1039	2.572E-17	1.33337
1052	6.429E-18	1.43840
1053	1.114E-17	1.51527
1058	-1.286E-17	1.12340
1059	-1.114E-17	1.15153
1060	-6.429E-18	1.22840
1061	1.286E-17	1.54340
1063	2.572E-17	1.33340
1064	4.00000	0.50000
1066	4.00000	1.00000
1067	4.00000	1.50000
1068	4.00000	2.20000
1072	4.00000	0.77170
1073	4.00000	0.84857
1074	4.00000	0.21000
1075	4.00000	0.84857
1076	4.00000	0.77170
1077	4.00000	0.56170
1078	4.00000	0.48483
1079	4.00000	0.45670
1080	4.00000	0.48483
1081	4.00000	0.56170
1082	4.00000	0.87670
1083	4.00000	0.66670
1084	4.00000	0.66670
1085	4.00000	0.00000
1087	4.00000	0.00000
1088	4.00000	2.15884
1089	4.00000	0.00000
1090	4.00000	2.16137
1091	4.00000	0.00000

1105	4.00000	2.07937
1106	4.00000	2.08065
1109	4.00000	0.77170
1110	4.00000	0.84857
1111	4.00000	0.84857
1112	4.00000	0.77170
1113	4.00000	0.56170
1114	4.00000	0.48483
1115	4.00000	0.45670
1116	4.00000	0.48483
1117	4.00000	0.56170
1118	4.00000	0.87670
1119	4.00000	0.66670
1120	4.00000	0.66670
1121	4.00000	0.77170
1122	4.00000	0.84857
1123	4.00000	0.84857
1124	4.00000	0.77170
1125	4.00000	0.56170
1126	4.00000	0.48483
1127	4.00000	0.45670
1128	4.00000	0.48483
1129	4.00000	0.56170
1130	4.00000	0.87670
1131	4.00000	0.66670
1132	4.00000	0.66670
1133	4.00000	0.77170
1134	4.00000	0.84857
1135	4.00000	0.84857
1136	4.00000	0.77170
1137	4.00000	0.56170
1138	4.00000	0.48483
1139	4.00000	0.45670
1140	4.00000	0.48483
1141	4.00000	0.56170
1142	4.00000	0.87670
1143	4.00000	0.66670
1144	4.00000	0.66670
1145	4.00000	1.43837
1146	4.00000	1.51523
1147	4.00000	1.51523
1148	4.00000	1.43837
1149	4.00000	1.22837
1150	4.00000	1.15150
1151	4.00000	1.12337
1152	4.00000	1.15150
1153	4.00000	1.22837
1154	4.00000	1.54337
1155	4.00000	1.33337
1156	4.00000	1.33337
1157	4.00000	1.43837
1158	4.00000	1.51523
1159	4.00000	1.51523
1160	4.00000	1.43837
1161	4.00000	1.22837
1162	4.00000	1.15150
1163	4.00000	1.12337
1164	4.00000	1.15150
1165	4.00000	1.22837
1166	4.00000	1.54337
1167	4.00000	1.33337
1168	4.00000	1.33337
1169	4.00000	1.43837
1170	4.00000	1.51523
1171	4.00000	1.51523
1172	4.00000	1.43837
1173	4.00000	1.22837
1174	4.00000	1.15150
1175	4.00000	1.12337
1176	4.00000	1.15150
1177	4.00000	1.22837
1178	4.00000	1.54337
1179	4.00000	1.33337
1180	4.00000	1.33337
1181	4.00000	1.43840
1182	4.00000	1.51527
1183	4.00000	1.51527
1184	4.00000	1.43840
1185	4.00000	1.22840
1186	4.00000	1.15153
1187	4.00000	1.12340
1188	4.00000	1.15153
1189	4.00000	1.22840
1190	4.00000	1.54340
1191	4.00000	1.33340
1192	4.00000	1.33340
1198	1.00000	2.08000
1206	1.00000	2.08000
1210	3.00000	2.08000
1216	3.00000	2.08000
1219	2.00000	2.07937
1220	2.00000	2.08065
1223	3.00000	2.16000
1224	2.00000	2.16000
1225	1.00000	2.16000

 Industria y Comercio SUPERINTENDENCIA	LISTA DE CHEQUEO ADMISIÓN A TRÁMITE – NUEVAS CREACIONES
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PATENTE DE INVENCION ☐
 MODELO DE UTILIDAD ☐
 Art 33 Decisión 486/00

☐	Indicación que se solicita una patente.
☐	Datos de identificación del solicitante o de la persona que presenta la solicitud
☐	Descripción de la invención
☐	Dibujos de ser estos pertinentes
☐	Comprobante de pago de las tasas establecidas (De ser el caso formato de descuento)
Completa ☐	Incompleta ☐

PATENTE DE INVENCION PCT ☐
 MODELO DE UTILIDAD PCT ☐
 Art.33 Decisión 486/00, Circular Única

☐	Indicación que se solicita una PCT
☐	Copia de la solicitud en español, tal como fue presentada inicialmente (capítulo descriptivo, reivindicatorio, resumen)
☐	Dibujos de ser estos pertinentes
☐	Comprobante de pago de las tasas establecidas (de ser el caso formato de descuento)
Completa ☐	Incompleta ☐

DISEÑO INDUSTRIAL ☐
 (Art. 119 Decisión 486/00)

☐	Indicación que se solicita Diseño industrial
☐	Datos de identificación del solicitante o de la persona que presenta la solicitud
☐	Representación gráfica y fotográfica del Diseño industrial o muestra del material que incorpora el diseño
☐	Comprobante de pago de las tasas establecidas
Completa ☐	Incompleta ☐

ESQUEMA DE TRAZADO ☐
 (Art. 92 Decisión 486/00)

☐	Indicación que se solicita un esquema de trazado
☐	Datos de identificación del solicitante o de la persona que presenta la solicitud
☐	Representación gráfica de un esquema de trazado
☐	Comprobante de pago de las tasas establecidas
Completa ☐	Incompleta ☐

Superintendencia de Industria y Comer



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