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**CONSTRUCCIÓN DE VIADUCTO PARA LA SUPRESIÓN DEL PASO A NIVEL DE EUBA
(P.K. 25+387 LÍNEA BILBAO-DONOSTIA)**

VIADUCTO EUBA

ANEJO PRUEBA DE CARGA

JUNIO 2022 (REV.: 01)

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1. PRUEBA DE CARGA

1.1. INTRODUCCIÓN:

La Prueba de Carga de una estructura es un proceso que, mediante la reproducción de un estado de carga sobre la misma, pretende obtener datos suficientes de su respuesta frente a dicho estado, de forma que pueda deducirse su comportamiento funcional.

No es objeto de este documento la comprobación de elementos estructurales aislados tales como piezas prefabricadas o pilotes, consideradas como unidades parciales de la estructura global. Las pruebas de recepción de estos elementos corresponden a ensayos de control a realizar antes o después de la ejecución de las obras, aunque a veces un comportamiento distinto al supuesto sea detectado en las pruebas de carga.

1.2. REALIZACIÓN DE LA PRUEBA DE CARGA

1.2.1. Dirección de las pruebas

La dirección de las pruebas estará a cargo del Ingeniero Director de la Obra, el cual podrá, ante las incidencias habidas durante la ejecución de la misma, introducir cuantas modificaciones al programa general sean necesarias, ordenar la realización de pruebas complementarias, modificar o adaptar el tren de carga a las condiciones de las pruebas o a las características de la estructura, intensificar las medidas a realizar, ampliar los tiempos de carga, etcétera.

Será quien, una vez que considere realizadas en todas sus fases, dará por terminadas las pruebas, y deberá en su caso ordenar la suspensión de las misma cuando así lo exija el comportamiento de la estructura durante el ensayo.

Deberá efectuar una inspección previa a la realización del ensayo y otra posterior al mismo en la que se refleje el estado final de la obra después del proceso de carga.

El Director de la Obra podrá encargar la realización de las pruebas a personal cualificado, al frente del cual figurará un Ingeniero especializado en este tipo de trabajos, a quién en adelante denominaremos Director de las Pruebas. Dependiendo de la naturaleza de la Obra puede ser conveniente la asesoría del Autor del Proyecto.

1.2.2. Materialización del tren de cargas

Dada la dificultad práctica de materializar el tren de cargas de la Instrucción vigente (IAP-11), se empleará, normalmente, un tren de cargas constituido por camiones u otros vehículos análogos, que deberán ser entre sí lo más parecidos que sea posible en cuanto a forma, peso y dimensiones. Su número y características deberán ser los necesarios para adaptarse a los distintos estados de carga definidos en el proyecto de las pruebas.

Las solicitaciones a que dé lugar el tren de cargas real nunca podrán ser superiores a los valores que teóricamente produciría la aplicación del tren de cargas definido en la "Instrucción de Acciones". Se aconseja no superar el 70% de dichos esfuerzos. Se señala igualmente que debido a las características de cada estructura es complicado, en algunas ocasiones, alcanzar tales valores con lo que se designarán siempre las relaciones entre valores reales y valores teóricos previstas en cada caso propuesto.

1.2.3. Zonas de aplicación de la carga

Como norma general, la sobrecarga que sustituye al tren de la Instrucción se aplicará solamente en la calzada y arcenes, sin que sea necesario someter a prueba las aceras. También como norma general se distribuirán uniformemente los vehículos de carga en el ancho de la calzada y arcenes, si bien pueden definirse estados de carga en los que ésta se distribuya únicamente en la mitad izquierda o derecha de la misma.

Los estados de carga serán determinados por el proyectista de la prueba de forma que, cargando convenientemente distintas partes de la estructura, se alcancen los porcentajes deseados de los esfuerzos máximos producidos por el tren de cargas de la Instrucción en las secciones críticas.

En el caso de que el puente este compuesto por varios vanos iguales, la Prueba de Carga completa puede reducirse a un número de ellos, siempre que el control de la obra fuera del tipo intenso, realizando en el resto pruebas de carga reducidas. En el caso de vanos iguales isostáticos será suficiente realizar la prueba sobre un 30% del número total de vanos.

1.2.4. Magnitudes a medir y aparatos de medida

Las magnitudes a medir serán aquellas que especifique el autor del Proyecto, de forma que permitan deducir el correcto comportamiento de la obra frente a los trenes de carga utilizados en las pruebas.

Asimismo, el proyectista fijará los puntos de la estructura en los que deban medirse las magnitudes correspondientes.

En el caso de medida de desplazamientos se referirán las medidas a puntos fijos que, siempre que sea posible, serán independientes de la estructura del puente.

Los aparatos de medida que se utilicen deberán estar sancionados por la experiencia en pruebas similares y deberán garantizar una apreciación mínima del orden de un 5% de los valores máximos esperados de las magnitudes que se vayan a medir. su campo debe ser como mínimo superior en un 50% a los valores esperados de dichas magnitudes.

1.2.5. Plazo de ejecución

La Prueba de Carga se realizará antes de la puesta en servicio de la estructura. En el momento de iniciarse la pruebas el hormigón de cualquier elemento resistente de la obra deberá haber alcanzado la resistencia característica del proyecto. El Director de Obra podrá autorizar la realización de la prueba aunque no se cumpla esta condición, una vez analizada la repercusión estructural de tal decisión.

En el caso de que fuera necesario realizar la prueba antes de la ejecución de algunas unidades no estructurales que formen parte de la carga permanente, tales como el pavimento, aceras, barandillas, etc. pueden seguirse dos caminos:

- a) Materializar una carga permanente supletoria equivalente a esas unidades de obra, colocándola, en este caso, con una antelación no inferior a 12 horas en puentes de hormigón.
- b) Incrementar la carga de ensayo en la proporción que la ausencia de tales unidades represente.

1.2.6. Forma de aplicación de las cargas

Se aconseja efectuar un mínimo de dos ciclos para cada uno de los estados de carga definidos en el proyecto de la prueba, con el fin de observar la concordancia de las medidas obtenidas. Una vez realizado el segundo ciclo y a la vista de los resultados obtenidos y del comportamiento general de la estructura, el Director de la prueba podrá determinar la necesidad de algún ciclo adicional.

En el caso de puentes con varios vanos iguales o análogos el Director de la prueba podrá reducir el número de ciclos, incluso a uno solo, cuando se vayan ocupando posiciones de carga similares en otros vanos, si el comportamiento es satisfactorio y concordante con los de los vanos precedentes.

La carga de ensayo se aplicará en un mínimo de dos escalones, si bien en el caso ya comentado de puentes con vanos análogos podrán a juicio del Director reducirse, e incluso limitarse a uno solo, cuando se vayan ocupando posiciones de carga similares en otros vanos, si el comportamiento de los anteriores ha sido satisfactorio. También podrá reducirse el número de escalones en los ciclos de carga posteriores al primero, una vez visto el comportamiento de la estructura en los ciclos anteriores.

La descarga se realizará, en general, en un solo Prueba de Carga . No obstante el Director de las pruebas podrá, si lo juzga oportuno, disponer su realización en escalones análogos a los del proceso de carga.

En cualquier caso el número de ciclos y de escalones vendrá determinado por las condiciones previstas en el proyecto de la prueba de carga.

Los movimientos de los vehículos en cualquier fase del proceso de carga o descarga se efectuará con la suficiente lentitud para no provocar efectos dinámicos no deseados, y se organizarán de forma que la realización de cualquier estado de carga no produzca sobre otras partes de la estructura solicitaciones superiores a las previstas.

1.2.7. Duración de la aplicación de las cargas

El tiempo que se debe mantener la aplicación de la carga en un Prueba de Carga intermedio antes de pasar al Prueba de Carga siguiente, así como el tiempo que se debe mantener la carga total correspondiente a un cierto estado de carga, vendrá determinado por el criterio de estabilización de las medidas (Ver apartado siguiente).

Se advierte especialmente sobre el hecho de que la aplicación de cargas de larga duración producirá frecuentemente resultados de difícil interpretación, a menos que se controlen los efectos de los distintos factores externos que pueden perturbar las medidas de la respuesta real de la estructura frente a la acción exclusiva de las cargas de ensayo aplicadas. Entre estas causas habrá que considerar las climatológicas y ambientales (variaciones térmicas, soleamiento, viento, lluvia...).

1.2.8. Criterios de estabilización

Los valores de la respuesta de la estructura se obtienen en cada momento como diferencia entre las lecturas de los aparatos en ese instante y las lecturas iniciales en descarga del ciclo que se está realizando.

Una vez situado el tren de cargas correspondiente, bien a un escalón intermedio o al final de cualquier estado de carga, se realizará una medida de la respuesta instantánea de la estructura, y se controlarán los aparatos de medida situados en los puntos en que se esperen las deformaciones más desfavorables desde el punto de vista de la estabilización.

Transcurridos 10 minutos se realizará una nueva lectura en dichos puntos. Si las diferencias entre los nuevos valores de la respuesta y los instantáneos son inferiores al 5% de estos últimos, o bien son del mismo orden de la precisión de los aparatos de medida, se considerará estabilizado el proceso de carga y se realizará la lectura final en todos los puntos de medida. En caso contrario se mantendrá la carga durante un nuevo intervalo de 10 minutos, y deberá cumplirse al final de los mismos que la diferencia de lecturas correspondiente a ese intervalo no supere en más de un 20% a la diferencia de lecturas correspondiente al intervalos anterior, o bien sea del orden de la precisión de los aparatos de medida. Si esto no se cumpliera, se comprobará la misma condición en un nuevo intervalo de 10 minutos. Si el criterio de estabilización siguiera sin cumplirse, se procederá, a juicio del Ingeniero Director de las pruebas, a mantener la carga durante un nuevo intervalo, a suspender dicho estado de carga o bien a reducir la carga correspondiente al Prueba de Carga considerado.

Una vez alcanzada la estabilización se tomarán las lecturas finales en todos los puntos de la misma. Por otra parte, deberá comprobarse que no se detecta ningún signo o muestra de fallo o inestabilidad en alguna parte de la estructura.

Una vez descargada totalmente la estructura se esperará a que los valores de las medidas estén estabilizados, aplicando el mismo criterio seguido para el proceso de carga. La diferencia entre los valores estabilizados después de la descarga y los iniciales antes de cargar serán los valores remanentes correspondientes al estado considerado. Para el análisis de estos valores nos remitimos a los incluidos en las "Recomendaciones para el proyecto y ejecución de pruebas de carga en puentes de carretera".

1.2.9. Criterios de aceptación

Los valores de las magnitudes máximas al finalizar el ciclo de carga, medidas después de la estabilización, no superarán en más de un 10% a los valores previstos.

1.3. DESARROLLO DEL CÁLCULO

Se han realizado cálculos para obtener valores de flectores máximos en centro-luz. Los camiones utilizados son del tipo dumper con la separación de ejes y la distribución de cargas indicada en los planos adjuntos. El primer escalón será aquel en el que se encuentre colocada una sola fila con dos camiones. El segundo escalón terminará cuando la primera y segunda fila estén colocadas

En los siguientes apartados se incluyen un resumen de los resultado obtenidos, así como los listados de los cálculos realizados, indicandos los vehículos utilizados y flechas previstas.

1.3.1. Resumen Esfuerzos y Flechas previstas

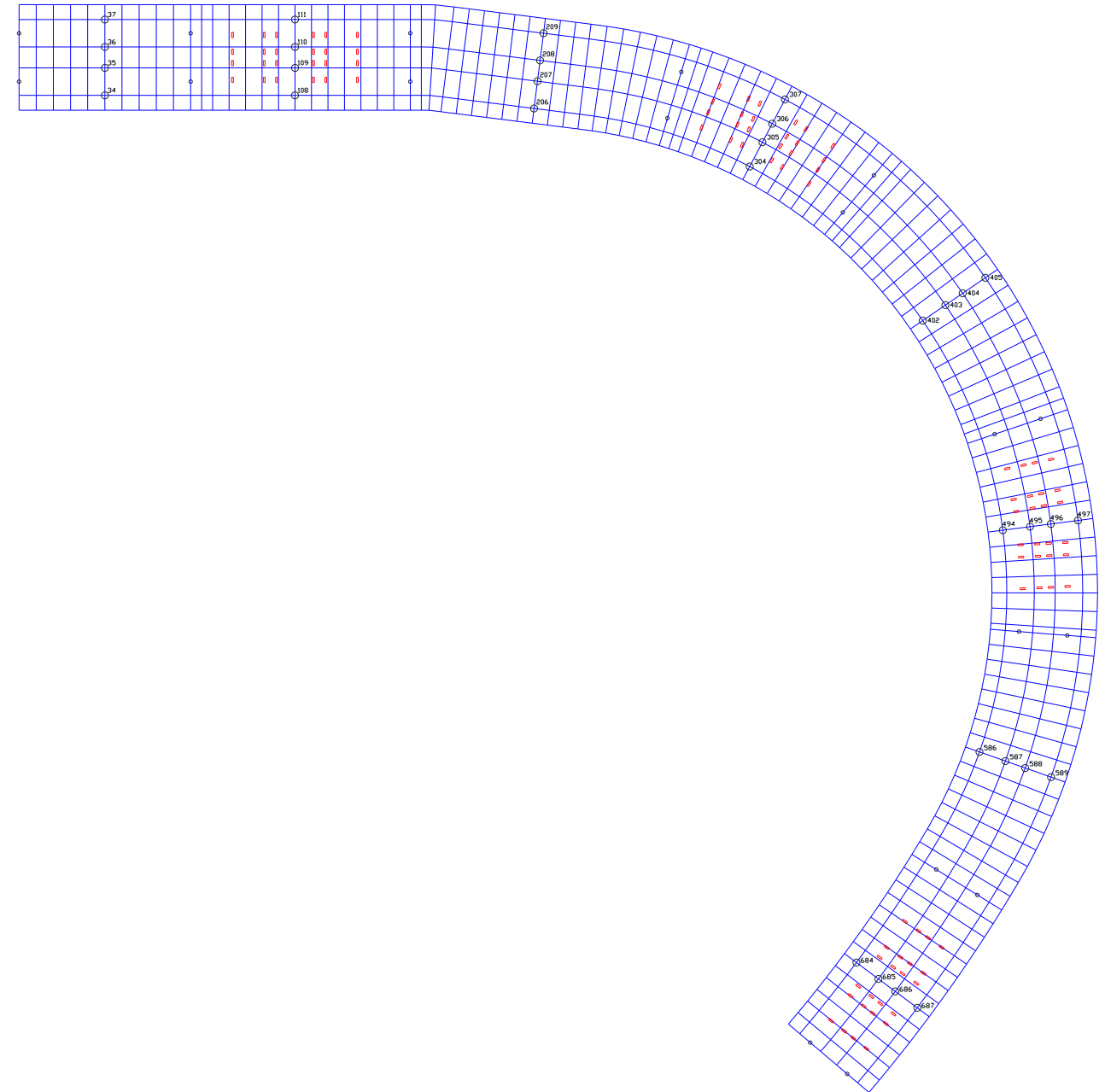
Hipótesis 1. Vanos impares cargados:

Escalón 1
(Prueba de carga 3)

NUDO	FLECHA (mm)
34	0.84
35	0.44
36	0.36
37	0.73
108	-2.25
109	-2.59
110	-2.01
111	-1.11
206	1.75
207	1.43
208	1.42
209	1.83
304	-1.85
305	-2.49
306	-2.13
307	-1.53
402	1.77
403	1.62
404	1.74
405	2.27
494	-1.88
495	-2.53
496	-2.17
497	-1.57
586	1.78
587	1.56
588	1.67
589	2.27
684	-2.77
685	-3.38
686	-2.71
687	-1.52

Escalón 2
(Prueba de carga 4)

NUDO	FLECHA (mm)
34	1.59
35	0.79
36	0.79
37	1.59
108	-3.34
109	-4.63
110	-4.66
111	-3.40
206	3.49
207	2.89
208	3.00
209	3.98
304	-2.94
305	-4.63
306	-5.06
307	-4.50
402	3.62
403	3.42
404	3.80
405	5.01
494	-3.02
495	-4.71
496	-5.16
497	-4.62
586	3.59
587	3.24
588	3.60
589	4.92
684	-4.13
685	-6.11
686	-6.34
687	-4.98



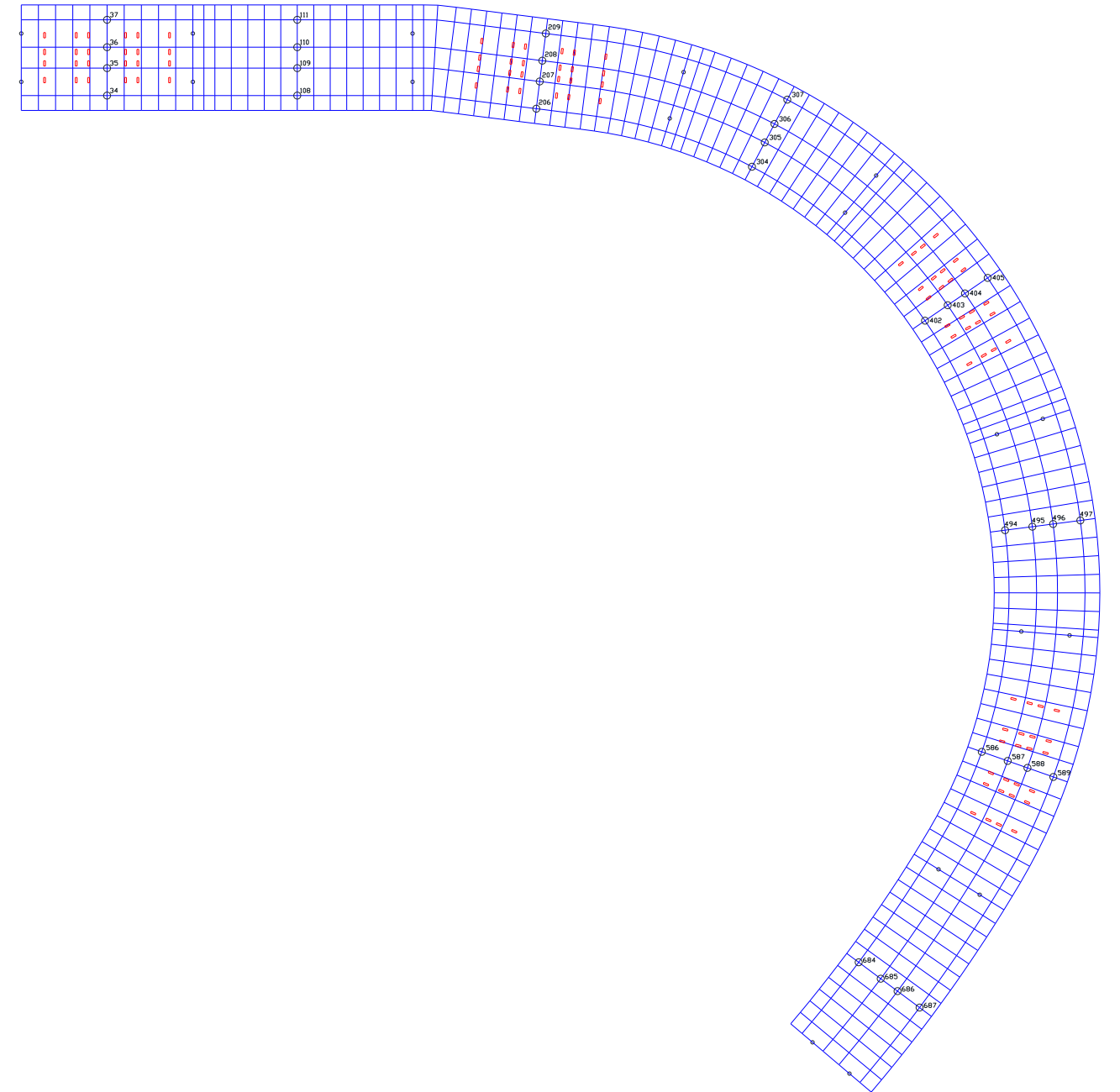
Hipótesis 2. Vanos pares cargados:

Escalón 1
(Prueba de carga 1)

NUDO	FLECHA (mm)
34	-1.36
35	-2.06
36	-1.52
37	-0.37
108	1.75
109	1.14
110	1.04
111	1.55
206	-3.84
207	-4.25
208	-3.69
209	-2.80
304	1.70
305	1.61
306	1.69
307	2.25
402	-4.26
403	-4.99
404	-4.65
405	-4.16
494	1.70
495	1.60
496	1.71
497	2.27
586	-3.43
587	-4.07
588	-3.67
589	-3.09
684	1.14
685	0.92
686	0.95
687	1.27

Escalón 2
(Prueba de carga 2)

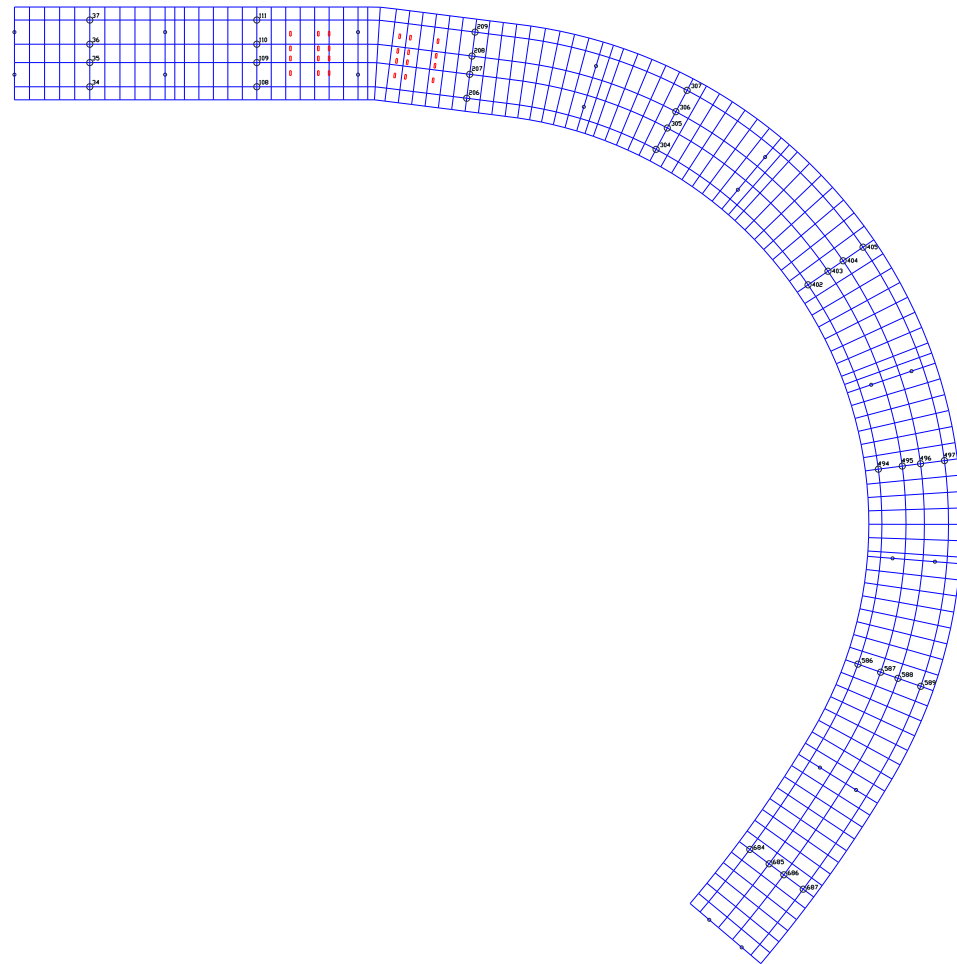
NUDO	FLECHA (mm)
34	-1.73
35	-3.61
36	-3.61
37	-1.73
108	3.42
109	2.24
110	2.22
111	3.37
206	-6.24
207	-7.98
208	-8.38
209	-7.47
304	3.53
305	3.29
306	3.64
307	4.92
402	-7.39
403	-9.72
404	-10.71
405	-10.92
494	3.54
495	3.35
496	3.75
497	4.99
586	-5.79
587	-7.80
588	-8.53
589	-8.46
684	2.33
685	1.96
686	2.09
687	2.74



Hipótesis 3. Pila 1:

Escalón 1
(Prueba de carga 6)

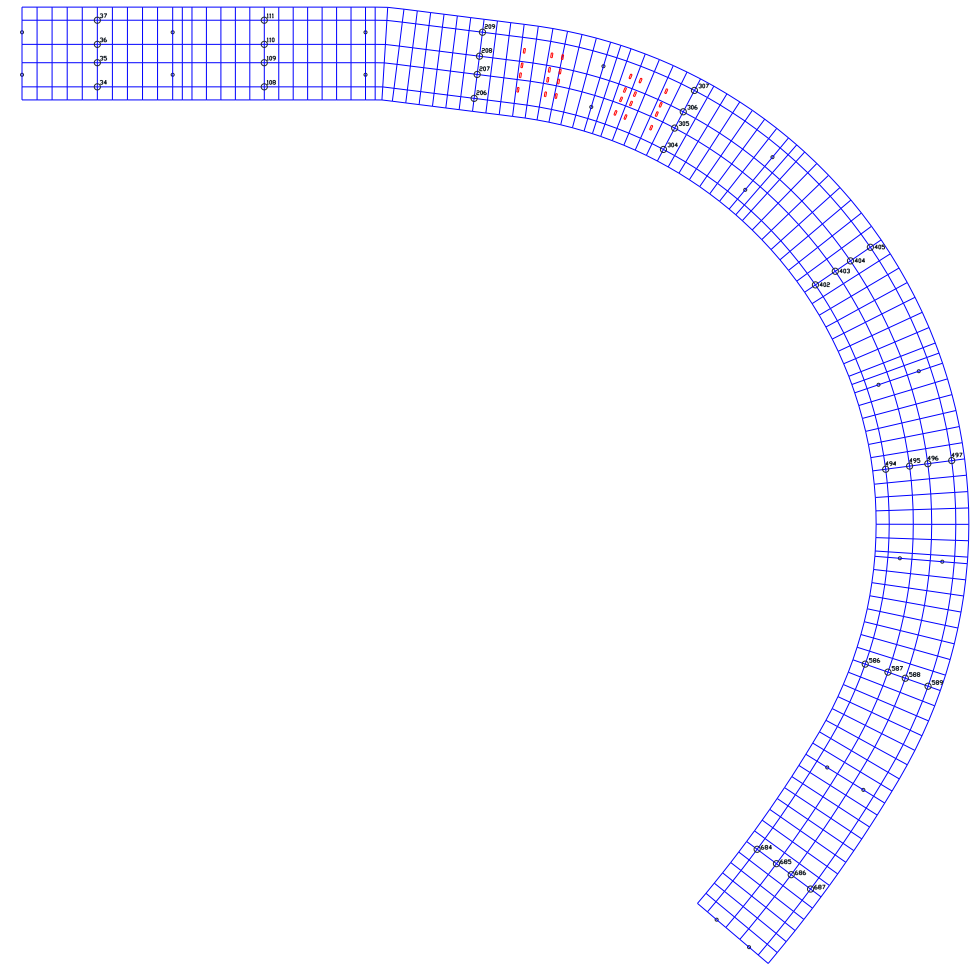
NUDO	FLECHA (mm)
108	-0.12
109	-0.62
110	-0.64
111	-0.27
206	0.35
207	-0.55
208	-0.56
209	0.38



Hipótesis 4. Pila 2:

Escalón 1
(Prueba de carga 7)

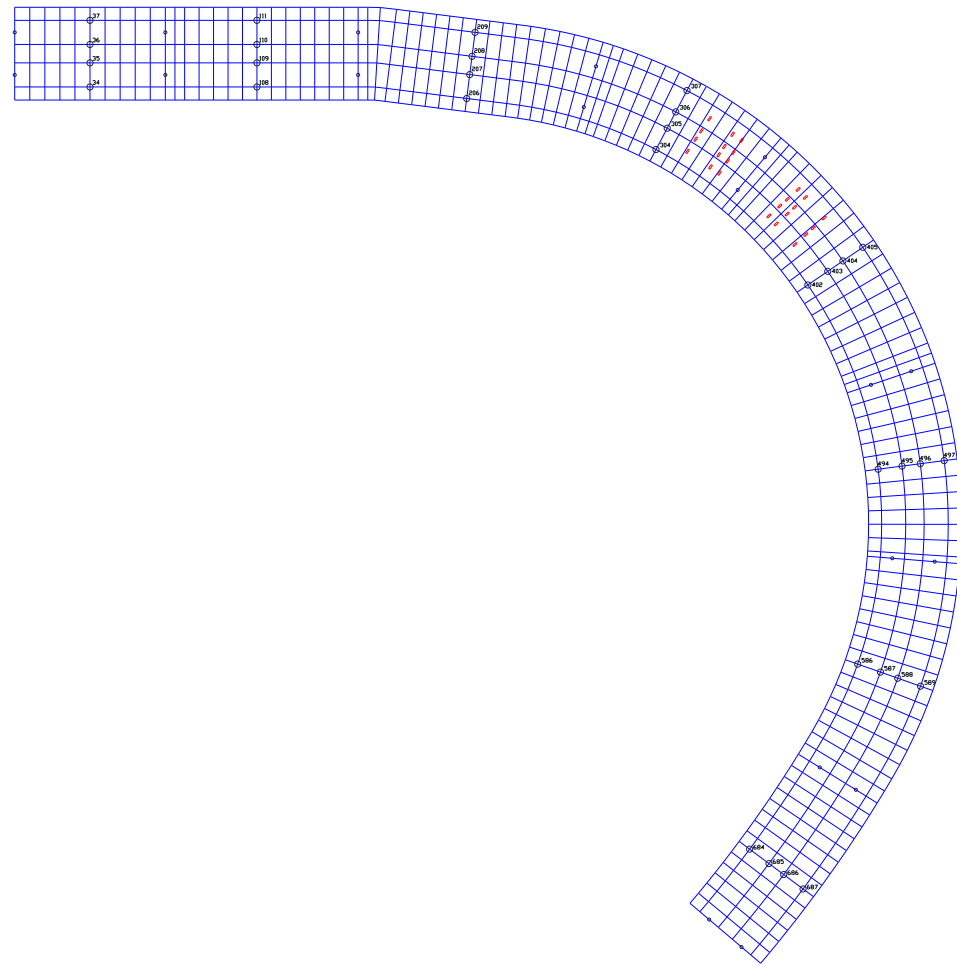
NUDO	FLECHA (mm)
206	-0.80
207	-1.57
208	-1.70
209	-1.16
304	0.01
305	-0.72
306	-0.77
307	-0.13



Hipótesis 5. Pila 3:

Escalón 1
(Prueba de carga 8)

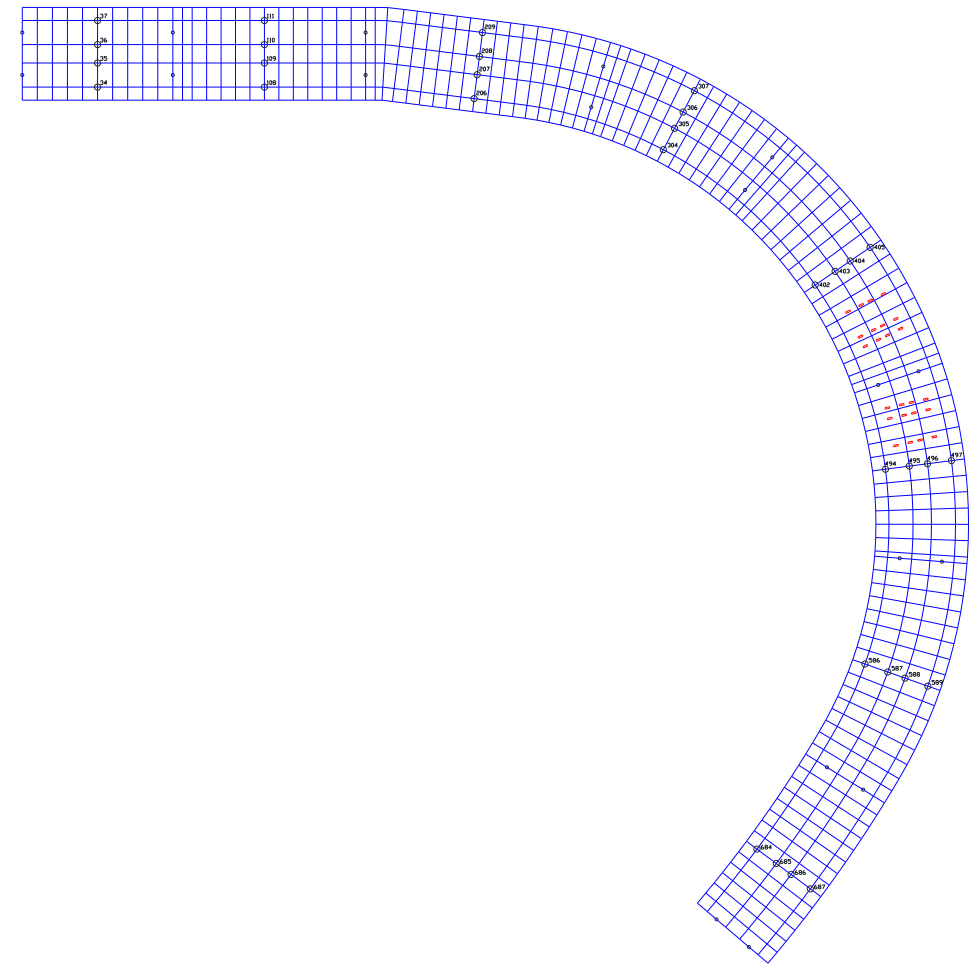
NUDO	FLECHA (mm)
304	0.07
305	-0.61
306	-0.64
307	-0.03
402	-1.14
403	-1.95
404	-2.14
405	-1.79



Hipótesis 6. Pila 4:

Escalón 1
(Prueba de carga 9)

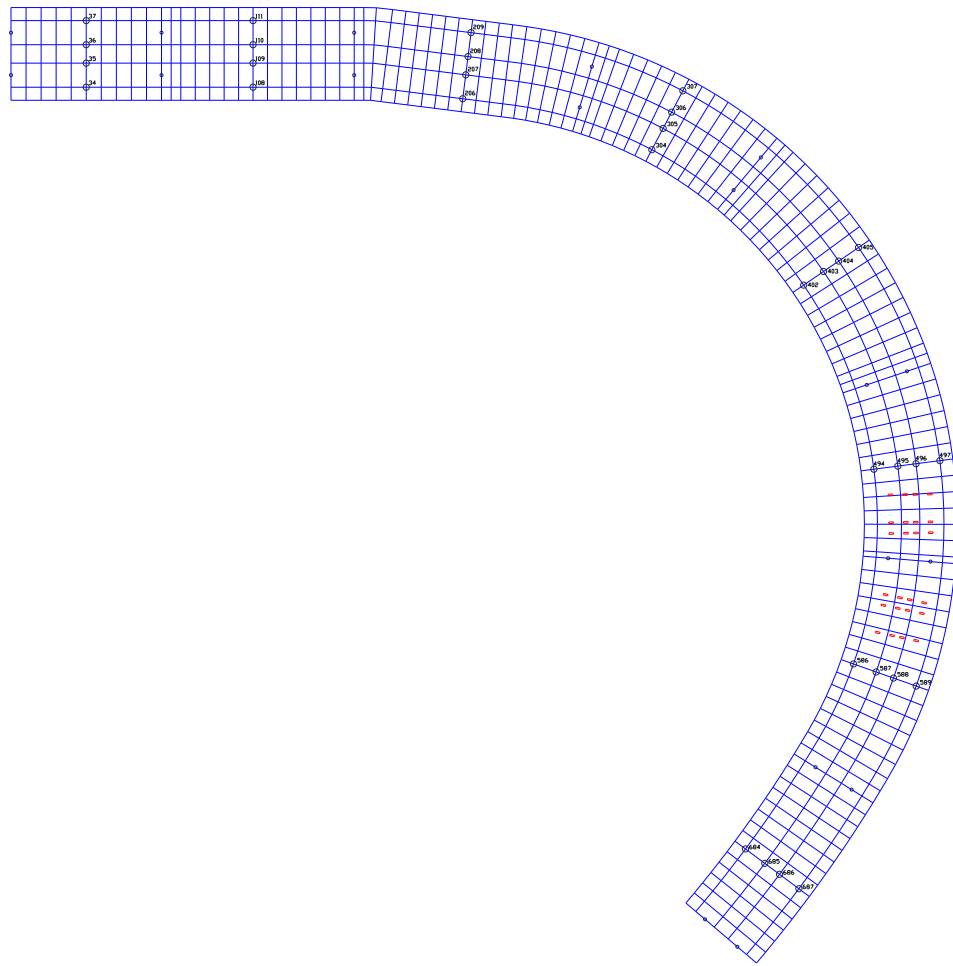
NUDO	FLECHA (mm)
402	-1.15
403	-1.96
404	-2.15
405	-1.80
494	0.08
495	-0.62
496	-0.65
497	-0.02



Hipótesis 7. Pila 5:

Escalón 1
(Prueba de carga 10)

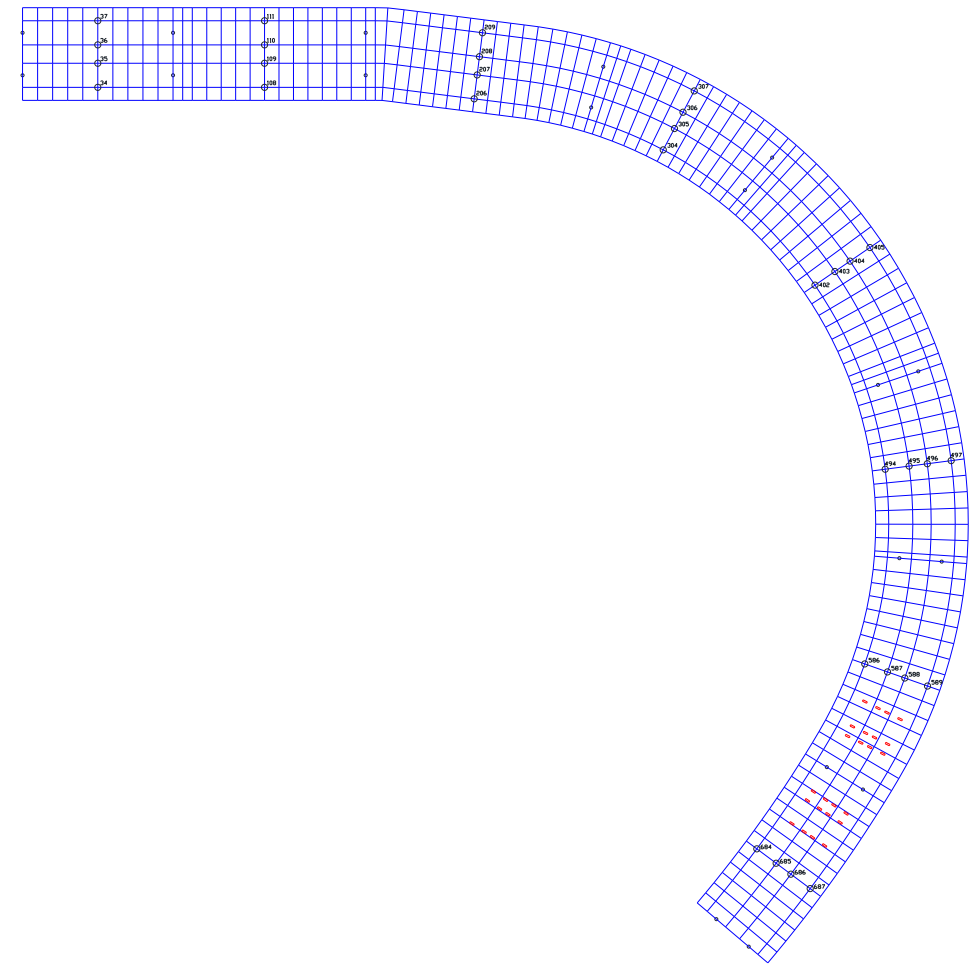
NUDO	FLECHA (mm)
494	0.01
495	-0.69
496	-0.73
497	-0.13
586	-0.84
587	-1.64
588	-1.78
589	-1.33



Hipótesis 8. Pila 6:

Escalón 1
(Prueba de carga 11)

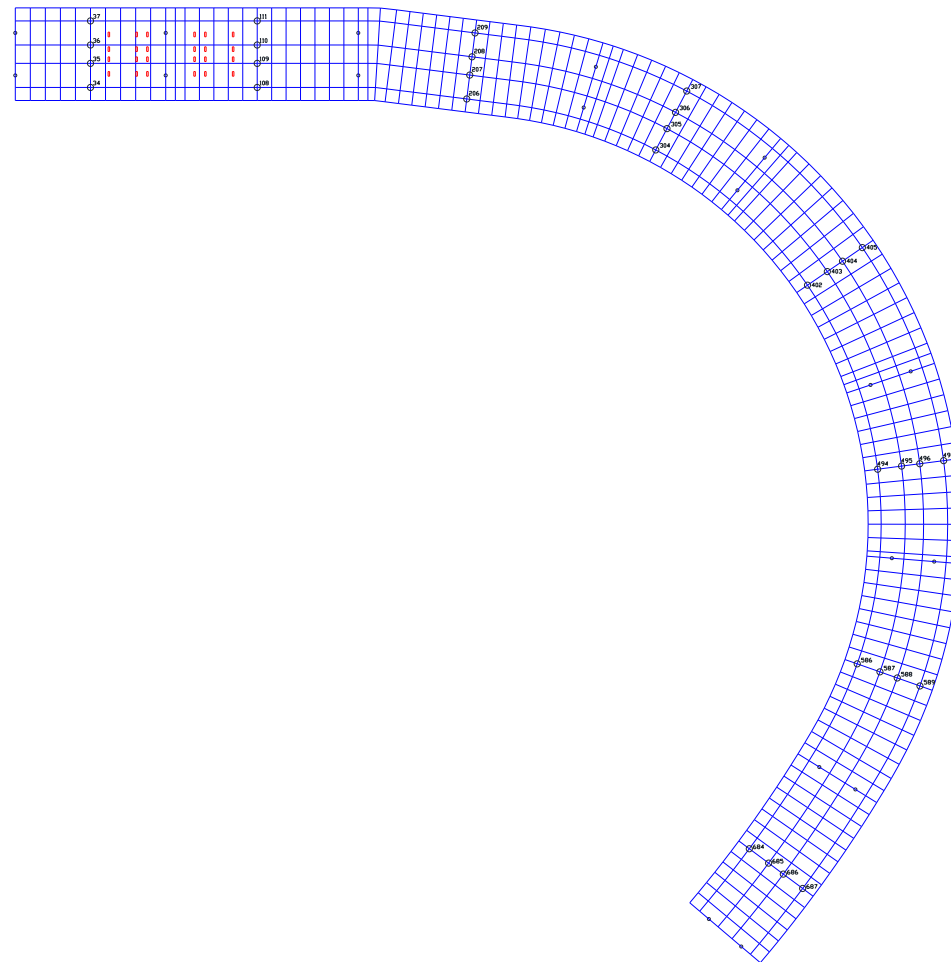
NUDO	FLECHA (mm)
586	-0.74
587	-1.60
588	-1.72
589	-1.16
684	-0.05
685	-1.01
686	-1.02
687	-0.11



Hipótesis 9. Pila 0:

Escalón 1
(Prueba de carga 5)

NUDO	FLECHA (mm)
34	0.33
35	-0.88
36	-0.88
37	0.33
108	-0.31
109	-1.27
110	-1.28
111	-0.33



Porcentaje máximo de esfuerzo alcanzado con la hipótesis 1 (Prueba de carga 3 y 4):

- Vano 1: 57.10 %
- Vano 3: 57.80 %
- Vano 5: 55.40 %
- Vano 7: 55.60 %

Porcentaje máximo de esfuerzo alcanzado con la hipótesis 2 (Prueba de carga 1 y 2):

- Vano 0: 53.70 %
- Vano 2: 59.00 %
- Vano 4: 56.80 %
- Vano 6: 55.60 %

Porcentaje máximo de esfuerzo alcanzado con la hipótesis 3 (Prueba de carga 6):

- Pila 1: 46.10 %

Porcentaje máximo de esfuerzo alcanzado con la hipótesis 4 (Prueba de carga 7):

- Pila 2: 40.10 %

Porcentaje máximo de esfuerzo alcanzado con la hipótesis 5 (Prueba de carga 8):

- Pila 3: 44.20 %

Porcentaje máximo de esfuerzo alcanzado con la hipótesis 6 (Prueba de carga 9):

- Pila 4: 43.8 %

Porcentaje máximo de esfuerzo alcanzado con la hipótesis 7 (Prueba de carga 10):

- Pila 5: 39.00 %

Porcentaje máximo de esfuerzo alcanzado con la hipótesis 8 (Prueba de carga 11):

- Pila 6: 48.90 %

Porcentaje máximo de esfuerzo alcanzado con la hipótesis 9 (Prueba de carga 5):

- Pila 0: 52.40 %

1.3.2. Listados

Prueba de carga nº 1

Cargas puntuales

X (m)	Y (m)	Carga (t)
2.650	3.450	-4.000
2.650	5.350	-4.000
6.250	3.450	-6.250
6.250	5.350	-6.250
7.650	3.450	-6.250
7.650	5.350	-6.250
16.850	5.350	-4.000
16.850	3.450	-4.000
13.250	5.350	-6.250
13.250	3.450	-6.250
11.850	5.350	-6.250
11.850	3.450	-6.250
51.693	2.834	-4.000
51.930	4.719	-4.000
55.265	2.385	-6.250
55.502	4.270	-6.250
56.654	2.210	-6.250
56.891	4.095	-6.250
66.019	2.946	-4.000
65.782	1.061	-4.000
62.447	3.395	-6.250
62.210	1.510	-6.250
61.058	3.570	-6.250
60.821	1.685	-6.250
99.952	-17.442	-4.000
101.432	-16.250	-4.000
102.210	-20.246	-6.250
103.690	-19.054	-6.250
103.088	-21.336	-6.250
104.568	-20.144	-6.250
109.380	-27.866	-4.000
107.733	-28.813	-4.000
107.584	-24.745	-6.250
105.938	-25.693	-6.250
106.886	-23.532	-6.250
105.239	-24.479	-6.250
112.742	-66.946	-4.000
114.578	-67.437	-4.000
111.813	-70.425	-6.250
113.649	-70.915	-6.250
111.452	-71.777	-6.250
113.288	-72.267	-6.250
109.899	-80.710	-4.000
108.162	-79.941	-4.000

X (m)	Y (m)	Carga (t)
111.357	-77.419	-6.250
109.619	-76.649	-6.250
111.924	-76.139	-6.250
110.186	-75.369	-6.250

Cargas en Nudos

Nudo	Carga (t)
10	-1.118
11	-3.429
12	-0.582
16	-0.626
17	-1.920
18	-0.326
22	-2.375
23	-7.286
24	-1.236
28	-3.074
29	-9.429
30	-1.600
40	-3.074
41	-9.429
42	-1.600
46	-2.375
47	-7.286
48	-1.236
52	-0.626
53	-1.920
54	-0.326
58	-1.118
59	-3.429
60	-0.582
176	-0.137
177	-0.421
178	-0.072
182	-1.606
183	-4.927
184	-0.836
188	-0.033
189	-0.102
190	-0.017
194	-3.259
195	-9.999
196	-1.696
200	-2.156
201	-6.614
202	-1.122
212	-2.173
213	-6.666

Nudo	Carga (t)
214	-1.131
218	-3.259
219	-9.999
220	-1.696
224	-0.016
225	-0.050
226	-0.009
230	-1.550
231	-4.864
232	-0.853
236	-0.181
237	-0.480
238	-0.071
378	-1.149
379	-3.524
380	-0.636
384	-0.532
385	-1.810
386	-0.349
390	-2.117
391	-6.832
392	-1.220
396	-3.212
397	-9.854
398	-1.765
408	-3.234
409	-9.922
410	-1.777
414	-2.095
415	-6.764
416	-1.208
420	-0.539
421	-1.831
422	-0.353
426	-1.142
427	-3.502
428	-0.632
562	-1.282
563	-3.947
564	-0.716
568	-0.398
569	-1.386
570	-0.271
574	-2.232
575	-7.198
576	-1.286
580	-3.096
581	-9.488
582	-1.700

Nudo	Carga (t)
592	-2.969
593	-9.089
594	-1.629
598	-2.359
599	-7.597
600	-1.357
604	-0.357
605	-1.259
606	-0.247
610	-1.322
611	-4.075
612	-0.741
Total...	-264.000

Prueba de carga nº 2
Cargas puntuales

X (m)	Y (m)	Carga (t)
2.650	3.450	-4.000
2.650	5.350	-4.000
6.250	3.450	-6.250
6.250	5.350	-6.250
7.650	3.450	-6.250
7.650	5.350	-6.250
16.850	5.350	-4.000
16.850	3.450	-4.000
13.250	5.350	-6.250
13.250	3.450	-6.250
11.850	5.350	-6.250
11.850	3.450	-6.250
51.693	2.834	-4.000
51.930	4.719	-4.000
55.265	2.385	-6.250
55.502	4.270	-6.250
56.654	2.210	-6.250
56.891	4.095	-6.250
66.019	2.946	-4.000
65.782	1.061	-4.000
62.447	3.395	-6.250
62.210	1.510	-6.250
61.058	3.570	-6.250
60.821	1.685	-6.250
99.952	-17.442	-4.000
101.432	-16.250	-4.000
102.210	-20.246	-6.250
103.690	-19.054	-6.250
103.088	-21.336	-6.250
104.568	-20.144	-6.250

X (m)	Y (m)	Carga (t)
109.380	-27.866	-4.000
107.733	-28.813	-4.000
107.584	-24.745	-6.250
105.938	-25.693	-6.250
106.886	-23.532	-6.250
105.239	-24.479	-6.250
112.742	-66.946	-4.000
114.578	-67.437	-4.000
111.813	-70.425	-6.250
113.649	-70.915	-6.250
111.452	-71.777	-6.250
113.288	-72.267	-6.250
109.899	-80.710	-4.000
108.162	-79.941	-4.000
111.357	-77.419	-6.250
109.619	-76.649	-6.250
111.924	-76.139	-6.250
110.186	-75.369	-6.250
2.650	6.650	-4.000
2.650	8.550	-4.000
6.250	6.650	-6.250
6.250	8.550	-6.250
7.650	6.650	-6.250
7.650	8.550	-6.250
16.850	8.550	-4.000
16.850	6.650	-4.000
13.250	8.550	-6.250
13.250	6.650	-6.250
11.850	8.550	-6.250
11.850	6.650	-6.250
52.093	6.009	-4.000
52.330	7.894	-4.000
55.664	5.560	-6.250
55.902	7.445	-6.250
57.053	5.385	-6.250
57.291	7.270	-6.250
66.419	6.121	-4.000
66.181	4.236	-4.000
62.847	6.570	-6.250
62.610	4.685	-6.250
61.458	6.745	-6.250
61.221	4.860	-6.250
102.444	-15.435	-4.000
103.924	-14.243	-4.000
104.702	-18.239	-6.250
106.182	-17.047	-6.250
105.581	-19.329	-6.250
107.060	-18.137	-6.250
112.153	-26.270	-4.000

X (m)	Y (m)	Carga (t)
110.507	-27.217	-4.000
110.358	-23.149	-6.250
108.711	-24.097	-6.250
109.660	-21.936	-6.250
108.013	-22.883	-6.250
115.834	-67.772	-4.000
117.670	-68.262	-4.000
114.905	-71.250	-6.250
116.741	-71.740	-6.250
114.544	-72.603	-6.250
116.380	-73.093	-6.250
112.825	-82.006	-4.000
111.088	-81.237	-4.000
114.283	-78.714	-6.250
112.545	-77.945	-6.250
114.849	-77.434	-6.250
113.112	-76.665	-6.250

Cargas en Nudos

Nudo	Carga (t)
10	-1.118
11	-4.011
12	-4.011
13	-1.118
16	-0.626
17	-2.246
18	-2.246
19	-0.626
22	-2.375
23	-8.522
24	-8.522
25	-2.375
28	-3.074
29	-11.029
30	-11.029
31	-3.074
40	-3.074
41	-11.029
42	-11.029
43	-3.074
46	-2.375
47	-8.522
48	-8.522
49	-2.375
52	-0.626
53	-2.246
54	-2.246
55	-0.626

Nudo	Carga (t)
58	-1.118
59	-4.011
60	-4.011
61	-1.118
176	-0.137
177	-0.493
178	-0.493
179	-0.137
182	-1.606
183	-5.763
184	-5.763
185	-1.606
188	-0.033
189	-0.120
190	-0.120
191	-0.033
194	-3.259
195	-11.695
196	-11.695
197	-3.259
200	-2.156
201	-7.736
202	-7.736
203	-2.156
212	-2.173
213	-7.797
214	-7.797
215	-2.173
218	-3.259
219	-11.695
220	-11.695
221	-3.259
224	-0.016
225	-0.059
226	-0.059
227	-0.016
230	-1.550
231	-5.695
232	-5.905
233	-1.680
236	-0.181
237	-0.541
238	-0.372
239	-0.077
378	-1.149
379	-4.032
380	-3.848
381	-1.035
384	-0.532

Nudo	Carga (t)
385	-2.134
386	-2.507
387	-0.763
390	-2.117
391	-8.063
392	-8.820
393	-2.585
396	-3.212
397	-11.316
398	-10.920
399	-2.967
408	-3.234
409	-11.395
410	-11.000
411	-2.990
414	-2.095
415	-7.984
416	-8.740
417	-2.562
420	-0.539
421	-2.159
422	-2.533
423	-0.770
426	-1.142
427	-4.007
428	-3.822
429	-1.028
562	-1.282
563	-4.518
564	-4.347
565	-1.176
568	-0.398
569	-1.646
570	-2.011
571	-0.623
574	-2.232
575	-8.491
576	-9.273
577	-2.716
580	-3.096
581	-10.886
582	-10.468
583	-2.838
592	-2.969
593	-10.423
594	-9.996
595	-2.705
598	-2.359
599	-8.954

Nudo	Carga (t)
600	-9.745
601	-2.849
604	-0.357
605	-1.499
606	-1.859
607	-0.580
610	-1.322
611	-4.664
612	-4.499
613	-1.220
Total...	-528.000

X (m)	Y (m)	Carga (t)
115.959	-54.305	-4.000
114.062	-54.403	-4.000
115.775	-50.710	-6.250
113.877	-50.807	-6.250
115.703	-49.312	-6.250
113.805	-49.409	-6.250
100.657	-92.232	-4.000
102.213	-93.324	-4.000
98.590	-95.179	-6.250
100.145	-96.271	-6.250
97.786	-96.326	-6.250
99.341	-97.417	-6.250
93.761	-104.686	-4.000
92.269	-103.510	-4.000
95.989	-101.858	-6.250
94.497	-100.682	-6.250
96.855	-100.758	-6.250
95.363	-99.582	-6.250

Prueba de carga nº 3Cargas puntuales

X (m)	Y (m)	Carga (t)
24.260	3.450	-4.000
24.260	5.350	-4.000
27.860	3.450	-6.250
27.860	5.350	-6.250
29.260	3.450	-6.250
29.260	5.350	-6.250
38.460	5.350	-4.000
38.460	3.450	-4.000
34.860	5.350	-6.250
34.860	3.450	-6.250
33.460	5.350	-6.250
33.460	3.450	-6.250
77.570	-1.957	-4.000
78.321	-0.212	-4.000
80.877	-3.380	-6.250
81.628	-1.634	-6.250
82.163	-3.933	-6.250
82.914	-2.188	-6.250
90.777	-6.764	-4.000
89.765	-8.372	-4.000
87.731	-4.845	-6.250
86.719	-6.452	-6.250
86.547	-4.099	-6.250
85.534	-5.706	-6.250
112.286	-40.739	-4.000
114.145	-40.348	-4.000
113.026	-44.262	-6.250
114.886	-43.871	-6.250
113.314	-45.632	-6.250
115.174	-45.241	-6.250

Cargas en Nudos

Nudo	Carga (t)
84	-1.382
85	-4.240
86	-0.719
90	-0.361
91	-1.109
92	-0.188
96	-2.701
97	-8.286
98	-1.406
102	-2.748
103	-8.429
104	-1.430
114	-2.748
115	-8.429
116	-1.430
120	-2.701
121	-8.286
122	-1.406
126	-0.361
127	-1.109
128	-0.188
132	-1.382
133	-4.240
134	-0.719
274	-0.092
275	-0.143

Nudo	Carga (t)
276	-0.006
280	-1.583
281	-5.185
282	-0.991
292	-2.873
293	-9.220
294	-1.650
298	-2.452
299	-7.464
300	-1.342
310	-2.514
311	-7.658
312	-1.377
316	-2.811
317	-9.026
318	-1.615
323	-0.016
324	-0.005
328	-1.602
329	-5.215
330	-0.992
334	-0.072
335	-0.097
470	-1.250
471	-3.847
472	-0.697
476	-0.430
477	-1.487
478	-0.289
482	-2.236
483	-7.210
484	-1.288
488	-3.092
489	-9.477
490	-1.698
500	-3.103
501	-9.509
502	-1.703
506	-2.226
507	-7.177
508	-1.282
512	-0.433
513	-1.497
514	-0.291
518	-1.247
519	-3.836
520	-0.695
654	-0.067
655	-0.155

Nudo	Carga (t)
656	-0.020
660	-1.653
661	-5.186
662	-0.919
672	-3.096
673	-9.644
674	-1.667
678	-2.310
679	-7.059
680	-1.224
690	-2.349
691	-7.179
692	-1.245
696	-3.057
697	-9.524
698	-1.646
708	-1.665
709	-5.225
710	-0.925
714	-0.054
715	-0.117
716	-0.014
Total...	-264.000

Prueba de carga nº 4

Cargas puntuales

X (m)	Y (m)	Carga (t)
24.260	3.450	-4.000
24.260	5.350	-4.000
27.860	3.450	-6.250
27.860	5.350	-6.250
29.260	3.450	-6.250
29.260	5.350	-6.250
38.460	5.350	-4.000
38.460	3.450	-4.000
34.860	5.350	-6.250
34.860	3.450	-6.250
33.460	5.350	-6.250
33.460	3.450	-6.250
77.570	-1.957	-4.000
78.321	-0.212	-4.000
80.877	-3.380	-6.250
81.628	-1.634	-6.250
82.163	-3.933	-6.250
82.914	-2.188	-6.250

X (m)	Y (m)	Carga (t)
90.777	-6.764	-4.000
89.765	-8.372	-4.000
87.731	-4.845	-6.250
86.719	-6.452	-6.250
86.547	-4.099	-6.250
85.534	-5.706	-6.250
112.286	-40.739	-4.000
114.145	-40.348	-4.000
113.026	-44.262	-6.250
114.886	-43.871	-6.250
113.314	-45.632	-6.250
115.174	-45.241	-6.250
115.959	-54.305	-4.000
114.062	-54.403	-4.000
115.775	-50.710	-6.250
113.877	-50.807	-6.250
115.703	-49.312	-6.250
113.805	-49.409	-6.250
100.657	-92.232	-4.000
102.213	-93.324	-4.000
98.590	-95.179	-6.250
100.145	-96.271	-6.250
97.786	-96.326	-6.250
99.341	-97.417	-6.250
93.761	-104.686	-4.000
92.269	-103.510	-4.000
95.989	-101.858	-6.250
94.497	-100.682	-6.250
96.855	-100.758	-6.250
95.363	-99.582	-6.250
24.260	6.650	-4.000
24.260	8.550	-4.000
27.860	6.650	-6.250
27.860	8.550	-6.250
29.260	6.650	-6.250
29.260	8.550	-6.250
38.460	8.550	-4.000
38.460	6.650	-4.000
34.860	8.550	-6.250
34.860	6.650	-6.250
33.460	8.550	-6.250
33.460	6.650	-6.250
78.835	0.982	-4.000
79.586	2.728	-4.000
82.142	-0.440	-6.250
82.893	1.305	-6.250
83.428	-0.994	-6.250
84.179	0.752	-6.250
92.483	-4.057	-4.000

X (m)	Y (m)	Carga (t)
91.470	-5.664	-4.000
89.437	-2.137	-6.250
88.424	-3.745	-6.250
88.253	-1.391	-6.250
87.240	-2.999	-6.250
115.417	-40.081	-4.000
117.277	-39.690	-4.000
116.158	-43.604	-6.250
118.017	-43.213	-6.250
116.446	-44.974	-6.250
118.305	-44.583	-6.250
119.155	-54.141	-4.000
117.257	-54.238	-4.000
118.970	-50.546	-6.250
117.073	-50.643	-6.250
118.899	-49.148	-6.250
117.001	-49.245	-6.250
103.277	-94.070	-4.000
104.832	-95.161	-4.000
101.209	-97.017	-6.250
102.765	-98.108	-6.250
100.405	-98.163	-6.250
101.961	-99.255	-6.250
96.274	-106.666	-4.000
94.782	-105.490	-4.000
98.502	-103.838	-6.250
97.010	-102.663	-6.250
99.369	-102.739	-6.250
97.877	-101.563	-6.250

Cargas en Nudos

Nudo	Carga (t)
84	-1.382
85	-4.960
86	-4.960
87	-1.382
90	-0.361
91	-1.297
92	-1.297
93	-0.361
96	-2.701
97	-9.692
98	-9.692
99	-2.701
102	-2.748
103	-9.859
104	-9.859
105	-2.748

Nudo	Carga (t)
114	-2.748
115	-9.860
116	-9.860
117	-2.748
120	-2.701
121	-9.692
122	-9.692
123	-2.701
126	-0.361
127	-1.297
128	-1.297
129	-0.361
132	-1.382
133	-4.959
134	-4.959
135	-1.382
274	-0.092
275	-0.143
276	-0.006
280	-1.583
281	-5.985
282	-6.137
283	-1.687
287	-0.021
288	-0.227
289	-0.120
292	-2.873
293	-10.846
294	-11.722
295	-3.414
298	-2.452
299	-8.522
300	-8.026
301	-2.145
310	-2.514
311	-8.748
312	-8.255
313	-2.210
316	-2.811
317	-10.621
318	-11.492
319	-3.350
323	-0.048
324	-0.294
325	-0.141
328	-1.602
329	-6.005
330	-6.076
331	-1.666

Nudo	Carga (t)
334	-0.072
335	-0.097
470	-1.250
471	-4.402
472	-4.229
473	-1.143
476	-0.430
477	-1.762
478	-2.128
479	-0.656
482	-2.236
483	-8.503
484	-9.280
485	-2.716
488	-3.092
489	-10.875
490	-10.461
491	-2.837
500	-3.103
501	-10.912
502	-10.499
503	-2.847
506	-2.226
507	-8.466
508	-9.241
509	-2.706
512	-0.433
513	-1.774
514	-2.140
515	-0.659
518	-1.247
519	-4.391
520	-4.216
521	-1.140
654	-0.067
655	-0.165
656	-0.054
660	-1.653
661	-6.053
662	-6.230
663	-1.759
668	-0.011
669	-0.009
672	-3.096
673	-11.302
674	-11.616
675	-3.291
678	-2.310
679	-8.183

Nudo	Carga (t)
680	-8.004
681	-2.199
690	-2.349
691	-8.323
692	-8.145
693	-2.238
696	-3.057
697	-11.162
698	-11.475
699	-3.251
704	-0.027
705	-0.021
708	-1.665
709	-6.098
710	-6.243
711	-1.746
714	-0.054
715	-0.120
716	-0.025
Total...	-528.000

X (m)	Y (m)	Carga (t)
24.640	6.650	-6.250
23.240	8.550	-6.250
23.240	6.650	-6.250

Cargas en Nudos

Nudo	Carga (t)
40	-1.359
41	-4.877
42	-4.877
43	-1.359
46	-0.384
47	-1.380
48	-1.380
49	-0.384
52	-3.130
53	-11.229
54	-11.229
55	-3.130
58	-2.319
59	-8.322
60	-8.322
61	-2.319
78	-0.920
79	-3.300
80	-3.300
81	-0.920
84	-3.411
85	-12.240
86	-12.240
87	-3.411
90	-1.118
91	-4.010
92	-4.010
93	-1.118
96	-1.162
97	-4.171
98	-4.171
99	-1.162
102	-0.581
103	-2.085
104	-2.085
105	-0.581
Total...	-132.000

Prueba de carga nº 5Cargas puntuales

X (m)	Y (m)	Carga (t)
12.130	3.450	-4.000
12.130	5.350	-4.000
15.730	3.450	-6.250
15.730	5.350	-6.250
17.130	3.450	-6.250
17.130	5.350	-6.250
28.240	5.350	-4.000
28.240	3.450	-4.000
24.640	5.350	-6.250
24.640	3.450	-6.250
23.240	5.350	-6.250
23.240	3.450	-6.250
12.130	6.650	-4.000
12.130	8.550	-4.000
15.730	6.650	-6.250
15.730	8.550	-6.250
17.130	6.650	-6.250
17.130	8.550	-6.250
28.240	8.550	-4.000
28.240	6.650	-4.000
24.640	8.550	-6.250

Prueba de carga nº 6Cargas puntuales

X (m)	Y (m)	Carga (t)
35.720	3.450	-4.000
35.720	5.350	-4.000
39.320	3.450	-6.250
39.320	5.350	-6.250
40.720	3.450	-6.250
40.720	5.350	-6.250
54.411	4.407	-4.000
54.173	2.522	-4.000
50.839	4.857	-6.250
50.602	2.972	-6.250
49.450	5.032	-6.250
49.213	3.147	-6.250
35.720	6.650	-4.000
35.720	8.550	-4.000
39.320	6.650	-6.250
39.320	8.550	-6.250
40.720	6.650	-6.250
40.720	8.550	-6.250
54.810	7.582	-4.000
54.573	5.697	-4.000
51.239	8.032	-6.250
51.001	6.147	-6.250
49.850	8.207	-6.250
49.612	6.321	-6.250

Nudo	Carga (t)
177	-11.695
178	-11.695
179	-3.259
182	-0.789
183	-2.833
184	-2.833
185	-0.789
188	-1.122
189	-4.027
190	-4.027
191	-1.122
194	-0.621
195	-2.229
196	-2.229
197	-0.621
Total...	-132.000

Cargas en Nudos

Nudo	Carga (t)
120	-1.170
121	-4.198
122	-4.198
123	-1.170
126	-0.574
127	-2.059
128	-2.059
129	-0.574
132	-2.038
133	-7.312
134	-7.312
135	-2.038
138	-3.411
139	-12.240
140	-12.240
141	-3.411
170	-1.400
171	-5.024
172	-5.024
173	-1.400
176	-3.259

Prueba de carga nº 7
Cargas puntuales

X (m)	Y (m)	Carga (t)
64.198	1.314	-4.000
64.505	3.189	-4.000
67.751	0.733	-6.250
68.058	2.608	-6.250
69.133	0.507	-6.250
69.439	2.383	-6.250
82.163	-1.832	-4.000
81.437	-3.588	-4.000
78.836	-0.457	-6.250
78.110	-2.212	-6.250
77.542	0.078	-6.250
76.816	-1.677	-6.250
64.715	4.472	-4.000
65.021	6.347	-4.000
68.267	3.891	-6.250
68.574	5.767	-6.250
69.649	3.666	-6.250
69.956	5.541	-6.250
83.385	1.125	-4.000
82.659	-0.631	-4.000
80.059	2.501	-6.250
79.333	0.745	-6.250
78.765	3.036	-6.250
78.039	1.280	-6.250

Cargas en Nudos

Nudo	Carga (t)
224	-1.412
225	-5.024
226	-4.923
227	-1.350
230	-0.266
231	-1.133
232	-1.438
233	-0.454
236	-1.893
237	-6.970
238	-7.249
239	-2.066
242	-3.069
243	-11.387
244	-12.004
245	-3.449
248	-0.370
249	-1.015
250	-0.484
251	-0.044
274	-1.379
275	-4.738
276	-4.339
277	-1.134
280	-3.155
281	-11.619
282	-12.115
283	-3.462
286	-0.805
287	-3.037
288	-3.268
289	-0.948
292	-0.996
293	-3.863
294	-4.340
295	-1.291
298	-0.684
299	-2.299
300	-2.016
301	-0.510
Total...	-132.000

X (m)	Y (m)	Carga (t)
87.109	-6.637	-4.000
88.173	-5.063	-4.000
90.091	-8.654	-6.250
91.155	-7.080	-6.250
91.250	-9.438	-6.250
92.315	-7.864	-6.250
102.425	-17.411	-4.000
101.018	-18.688	-4.000
100.004	-14.746	-6.250
98.597	-16.024	-6.250
99.062	-13.710	-6.250
97.656	-14.988	-6.250
88.901	-3.987	-4.000
89.965	-2.413	-4.000
91.883	-6.003	-6.250
92.948	-4.429	-6.250
93.043	-6.787	-6.250
94.107	-5.214	-6.250
104.793	-15.259	-4.000
103.387	-16.536	-4.000
102.372	-12.594	-6.250
100.966	-13.872	-6.250
101.430	-11.558	-6.250
100.024	-12.836	-6.250

Cargas en Nudos

Nudo	Carga (t)
316	-1.368
317	-4.821
318	-4.640
319	-1.256
322	-0.310
323	-1.340
324	-1.720
325	-0.545
328	-1.911
329	-7.032
330	-7.331
331	-2.100
334	-3.117
335	-11.560
336	-12.131
337	-3.459
340	-0.304
341	-0.778
342	-0.276
366	-1.258
367	-4.315

Prueba de carga nº 8Cargas puntuales

Nudo	Carga (t)
368	-3.944
369	-1.029
372	-3.352
373	-12.318
374	-12.802
375	-3.650
378	-0.735
379	-2.767
380	-2.970
381	-0.860
384	-1.357
385	-5.174
386	-5.674
387	-1.666
390	-0.322
391	-0.981
392	-0.686
393	-0.140
Total...	-132.000

X (m)	Y (m)	Carga (t)
117.015	-38.690	-6.250
115.162	-39.112	-6.250

Cargas en Nudos

Nudo	Carga (t)
414	-0.329
415	-1.007
416	-0.712
417	-0.147
420	-1.350
421	-5.149
422	-5.648
423	-1.658
426	-0.746
427	-2.807
428	-3.010
429	-0.871
432	-3.352
433	-12.318
434	-12.802
435	-3.650
438	-1.247
439	-4.276
440	-3.903
441	-1.018
464	-0.689
465	-2.216
466	-1.764
467	-0.412
470	-3.298
471	-12.168
472	-12.718
473	-3.637
476	-1.355
477	-5.009
478	-5.237
479	-1.497
482	-0.921
483	-3.568
484	-4.005
485	-1.191
488	-0.761
489	-2.597
490	-2.348
491	-0.608
Total...	-132.000

Prueba de carga nº 9

Cargas puntuales

X (m)	Y (m)	Carga (t)
106.958	-27.368	-4.000
108.658	-26.520	-4.000
108.564	-30.590	-6.250
110.265	-29.742	-6.250
109.189	-31.842	-6.250
110.890	-30.994	-6.250
115.005	-44.276	-4.000
113.153	-44.698	-4.000
114.206	-40.766	-6.250
112.353	-41.188	-6.250
113.895	-39.401	-6.250
112.042	-39.823	-6.250
109.821	-25.940	-4.000
111.522	-25.092	-4.000
111.428	-29.161	-6.250
113.128	-28.313	-6.250
112.053	-30.414	-6.250
113.753	-29.566	-6.250
118.125	-43.565	-4.000
116.273	-43.987	-4.000
117.326	-40.055	-6.250
115.473	-40.477	-6.250

Prueba de carga nº 10Cargas puntuales

X (m)	Y (m)	Carga (t)
113.940	-51.080	-4.000
115.840	-51.038	-4.000
114.018	-54.679	-6.250
115.918	-54.638	-6.250
114.049	-56.078	-6.250
115.948	-56.037	-6.250
114.138	-69.278	-4.000
112.279	-68.886	-4.000
114.881	-65.755	-6.250
113.021	-65.364	-6.250
115.169	-64.386	-6.250
113.310	-63.994	-6.250
117.140	-51.010	-4.000
119.039	-50.969	-4.000
117.218	-54.610	-6.250
119.117	-54.568	-6.250
117.248	-56.009	-6.250
119.147	-55.968	-6.250
117.270	-69.938	-4.000
115.410	-69.546	-4.000
118.012	-66.415	-6.250
116.153	-66.024	-6.250
118.301	-65.045	-6.250
116.441	-64.654	-6.250

Cargas en Nudos

Nudo	Carga (t)
500	-0.101
501	-0.182
502	-0.014
506	-1.574
507	-5.955
508	-6.195
509	-1.712
512	-0.291
513	-1.193
514	-1.548
515	-0.513
518	-3.332
519	-12.222
520	-12.663
521	-3.605
524	-1.712
525	-5.988

Nudo	Carga (t)
526	-5.678
527	-1.521
550	-1.081
551	-3.655
552	-3.247
553	-0.830
556	-3.294
557	-12.127
558	-12.636
559	-3.608
562	-0.969
563	-3.617
564	-3.832
565	-1.103
568	-1.131
569	-4.345
570	-4.818
571	-1.423
574	-0.550
575	-1.817
576	-1.538
577	-0.378
Total...	-132.000

Prueba de carga nº 11Cargas puntuales

X (m)	Y (m)	Carga (t)
109.155	-77.834	-4.000
110.854	-78.685	-4.000
107.544	-81.053	-6.250
109.243	-81.904	-6.250
106.917	-82.305	-6.250
108.616	-83.156	-6.250
101.277	-94.686	-4.000
99.700	-93.627	-4.000
103.284	-91.698	-6.250
101.707	-90.639	-6.250
104.065	-90.536	-6.250
102.488	-89.476	-6.250
112.017	-79.267	-4.000
113.716	-80.117	-4.000
110.405	-82.486	-6.250
112.104	-83.336	-6.250
109.778	-83.738	-6.250
111.477	-84.588	-6.250

X (m)	Y (m)	Carga (t)
103.933	-96.471	-4.000
102.356	-95.411	-4.000
105.941	-93.482	-6.250
104.364	-92.423	-6.250
106.721	-92.320	-6.250
105.144	-91.261	-6.250

Cargas en Nudos

Nudo	Carga (t)
598	-0.816
599	-2.797
600	-2.554
601	-0.666
604	-0.866
605	-3.368
606	-3.800
607	-1.133
610	-1.399
611	-5.167
612	-5.399
613	-1.543
616	-3.280
617	-12.105
618	-12.660
619	-3.622
622	-0.664
623	-2.119
624	-1.661
625	-0.382
648	-2.884
649	-10.251
650	-10.085
651	-2.781
654	-2.522
655	-9.233
656	-9.535
657	-2.708
660	-0.117
661	-0.497
662	-0.623
663	-0.195
666	-1.603
667	-5.723
668	-5.671
669	-1.571
Total...	-132.000

Resultados del cálculo

Prueba de carga 1

Desplazamientos de nudos

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
1	2.300112e-004	7.172789e-004	-2.766564e-004
2	2.303524e-004	3.291312e-004	-2.830986e-004
3	2.459166e-004	-3.764482e-005	-2.800403e-004
4	2.605248e-004	-4.376315e-004	-2.769820e-004
5	-3.708056e-004	-5.915769e-004	-1.515060e-004
6	-3.677998e-004	-1.359072e-005	-1.481352e-004
7	-3.638148e-004	5.554493e-004	-1.447643e-004
8	-3.663610e-004	1.172460e-003	-1.393860e-004
9	2.355957e-004	1.878147e-004	-2.648214e-004
10	2.402792e-004	-2.132457e-004	-2.676737e-004
11	2.422463e-004	-9.669641e-004	-2.608020e-004
12	-3.709081e-004	-8.829891e-004	-1.448531e-004
13	-3.723992e-004	2.780139e-004	-1.378900e-004
14	-3.715198e-004	9.064325e-004	-1.334843e-004
15	2.372999e-004	-2.957869e-004	-2.257856e-004
16	2.376485e-004	-6.973046e-004	-2.241033e-004
17	2.348229e-004	-1.436056e-003	-2.168101e-004
18	-3.757430e-004	-1.148017e-003	-1.241662e-004
19	-3.767499e-004	2.675300e-005	-1.182866e-004
20	-3.758788e-004	6.626864e-004	-1.158316e-004
21	2.348416e-004	-6.766708e-004	-1.601474e-004
22	2.335540e-004	-1.072922e-003	-1.571943e-004
23	2.291084e-004	-1.797029e-003	-1.500579e-004
24	-3.789618e-004	-1.358522e-003	-8.923550e-005
25	-3.788381e-004	-1.757508e-004	-8.810681e-005
26	-3.772018e-004	4.629211e-004	-8.823808e-005
27	2.309988e-004	-9.115957e-004	-7.774667e-005
28	2.290924e-004	-1.300901e-003	-7.446216e-005
29	2.239100e-004	-2.010180e-003	-6.733427e-005
30	-3.775702e-004	-1.488842e-003	-4.315488e-005
31	-3.767200e-004	-3.116904e-004	-5.017024e-005
32	-3.744411e-004	3.227517e-004	-5.404685e-005
33	2.272850e-004	-9.788207e-004	9.932094e-006
34	2.251417e-004	-1.361616e-003	1.216344e-005
35	2.198151e-004	-2.058168e-003	1.646977e-005
36	-3.700050e-004	-1.522711e-003	8.014121e-006
37	-3.689335e-004	-3.695926e-004	-8.187506e-006
38	-3.665167e-004	2.515666e-004	-1.643429e-005
39	2.251654e-004	-8.767725e-004	9.406802e-005
40	2.233060e-004	-1.256245e-003	9.527266e-005
41	2.182978e-004	-1.947665e-003	9.688156e-005
42	-3.561560e-004	-1.455710e-003	5.931949e-005
43	-3.552870e-004	-3.453991e-004	3.393290e-005
44	-3.529659e-004	2.527801e-004	2.128484e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
45	2.231802e-004	-6.208021e-004	1.659302e-004
46	2.219016e-004	-9.973300e-004	1.674702e-004
47	2.176696e-004	-1.685299e-003	1.693059e-004
48	-3.361839e-004	-1.291651e-003	1.059175e-004
49	-3.359079e-004	-2.426312e-004	7.228254e-005
50	-3.341583e-004	3.233653e-004	5.578707e-005
51	2.201179e-004	-2.459403e-004	2.144308e-004
52	2.201633e-004	-6.181286e-004	2.168885e-004
53	2.172479e-004	-1.302135e-003	2.185883e-004
54	-3.115599e-004	-1.045839e-003	1.419524e-004
55	-3.121195e-004	-7.223884e-005	1.031481e-004
56	-3.112052e-004	4.543868e-004	8.403225e-005
57	2.146651e-004	1.930536e-004	2.311591e-004
58	2.175803e-004	-1.712741e-004	2.361281e-004
59	2.180321e-004	-8.520034e-004	2.379039e-004
60	-2.848244e-004	-7.427822e-004	1.641996e-004
61	-2.860045e-004	1.485105e-004	1.237625e-004
62	-2.857101e-004	6.315383e-004	1.034045e-004
63	2.106531e-004	6.331747e-004	2.189305e-004
64	2.061668e-004	2.798360e-004	2.203871e-004
65	2.167684e-004	-4.631594e-005	2.217934e-004
66	2.267108e-004	-3.961386e-004	2.231996e-004
67	-2.593289e-004	-4.108291e-004	1.714157e-004
68	-2.593550e-004	-5.698698e-006	1.519249e-004
69	-2.587149e-004	3.980121e-004	1.324341e-004
70	-2.600416e-004	8.365219e-004	1.128364e-004
71	2.091409e-004	8.968919e-004	2.010957e-004
72	2.131833e-004	5.416160e-004	1.987298e-004
73	2.171781e-004	-1.302894e-004	2.022514e-004
74	-2.425289e-004	-1.971072e-004	1.689996e-004
75	-2.443972e-004	5.633550e-004	1.325247e-004
76	-2.452275e-004	9.771007e-004	1.143588e-004
77	2.103308e-004	1.134360e-003	1.784528e-004
78	2.134303e-004	7.769570e-004	1.780451e-004
79	2.138244e-004	1.100082e-004	1.822749e-004
80	-2.278775e-004	1.115334e-005	1.628090e-004
81	-2.303681e-004	7.269554e-004	1.295887e-004
82	-2.317429e-004	1.117724e-003	1.128960e-004
83	2.098884e-004	1.437361e-003	1.461784e-004
84	2.108048e-004	1.081942e-003	1.482209e-004
85	2.104673e-004	4.244018e-004	1.535472e-004
86	-2.084913e-004	3.043271e-004	1.476758e-004
87	-2.110522e-004	9.595963e-004	1.195754e-004
88	-2.126963e-004	1.317909e-003	1.052724e-004
89	2.068577e-004	1.681562e-003	1.158439e-004
90	2.071503e-004	1.331722e-003	1.189853e-004
91	2.066828e-004	6.857845e-004	1.254024e-004
92	-1.925006e-004	5.629810e-004	1.264101e-004
93	-1.949123e-004	1.168039e-003	1.035629e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
94	-1.965928e-004	1.499103e-003	9.182016e-005
95	2.026727e-004	1.869266e-003	8.580954e-005
96	2.028275e-004	1.526616e-003	8.950277e-005
97	2.022798e-004	8.942751e-004	9.683349e-005
98	-1.797803e-004	7.767173e-004	1.001183e-004
99	-1.820034e-004	1.341723e-003	8.228570e-005
100	-1.836100e-004	1.650892e-003	7.307801e-005
101	1.978738e-004	1.999930e-003	5.489792e-005
102	1.979832e-004	1.665427e-003	5.898271e-005
103	1.973833e-004	1.048270e-003	6.701975e-005
104	-1.701033e-004	9.369734e-004	6.964878e-005
105	-1.721704e-004	1.471491e-003	5.650640e-005
106	-1.736916e-004	1.763954e-003	4.972157e-005
107	1.926020e-004	2.071114e-003	2.224880e-005
108	1.927124e-004	1.745519e-003	2.668386e-005
109	1.921141e-004	1.144807e-003	3.531901e-005
110	-1.632669e-004	1.036573e-003	3.564674e-005
111	-1.652480e-004	1.549596e-003	2.696353e-005
112	-1.667261e-004	1.830315e-003	2.250997e-005
113	1.868529e-004	2.078818e-003	-1.293662e-005
114	1.870217e-004	1.762897e-003	-8.105528e-006
115	1.864960e-004	1.179845e-003	1.201045e-006
116	-1.591733e-004	1.069411e-003	-1.364109e-006
117	-1.611565e-004	1.569658e-003	-5.624422e-006
118	-1.626573e-004	1.843484e-003	-7.755856e-006
119	1.805108e-004	2.017504e-003	-5.147525e-005
120	1.807967e-004	1.712218e-003	-4.610786e-005
121	1.804185e-004	1.148394e-003	-3.584486e-005
122	-1.578707e-004	1.030316e-003	-4.088269e-005
123	-1.599469e-004	1.526660e-003	-4.052501e-005
124	-1.615380e-004	1.798533e-003	-4.024056e-005
125	1.733379e-004	1.880027e-003	-9.424682e-005
126	1.738002e-004	1.586731e-003	-8.810315e-005
127	1.736355e-004	1.044456e-003	-7.641411e-005
128	-1.595574e-004	9.151055e-004	-8.232374e-005
129	-1.618033e-004	1.417018e-003	-7.694758e-005
130	-1.635257e-004	1.692163e-003	-7.407378e-005
131	1.648827e-004	1.657416e-003	-1.423175e-004
132	1.657007e-004	1.378130e-003	-1.349654e-004
133	1.658137e-004	8.607621e-004	-1.212942e-004
134	-1.645505e-004	7.208469e-004	-1.249086e-004
135	-1.669979e-004	1.238717e-003	-1.140083e-004
136	-1.687906e-004	1.522726e-003	-1.083981e-004
137	1.540904e-004	1.338204e-003	-1.972683e-004
138	1.560702e-004	1.076381e-003	-1.876673e-004
139	1.567114e-004	5.883109e-004	-1.715647e-004
140	-1.732289e-004	4.463283e-004	-1.675622e-004
141	-1.757613e-004	9.914930e-004	-1.507279e-004
142	-1.772475e-004	1.290011e-003	-1.425424e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
143	1.393165e-004	9.074751e-004	-2.606154e-004
144	1.437865e-004	6.695787e-004	-2.472323e-004
145	1.470859e-004	2.157357e-004	-2.286662e-004
146	-1.861179e-004	9.270555e-005	-2.088321e-004
147	-1.878654e-004	6.769516e-004	-1.860925e-004
148	-1.883104e-004	9.946943e-004	-1.760037e-004
149	1.254399e-004	3.534145e-004	-3.247678e-004
150	1.211596e-004	1.439628e-004	-3.146331e-004
151	1.331424e-004	-5.016740e-005	-3.045089e-004
152	1.450327e-004	-2.713934e-004	-2.943846e-004
153	-2.055958e-004	-3.357361e-004	-2.468667e-004
154	-2.034040e-004	-1.531963e-005	-2.330452e-004
155	-2.004226e-004	2.984738e-004	-2.192237e-004
156	-2.027607e-004	6.397434e-004	-2.058491e-004
157	1.171640e-004	-7.572931e-005	-3.610434e-004
158	1.219226e-004	-2.759292e-004	-3.550453e-004
159	1.270583e-004	-6.653288e-004	-3.349952e-004
160	-2.152426e-004	-6.576938e-004	-2.668637e-004
161	-2.147184e-004	1.346463e-005	-2.368898e-004
162	-2.129885e-004	3.741879e-004	-2.214081e-004
163	1.135092e-004	-4.001473e-004	-3.818234e-004
164	1.159849e-004	-6.339476e-004	-3.767405e-004
165	1.168494e-004	-1.073282e-003	-3.614577e-004
166	-2.299319e-004	-1.024058e-003	-2.786912e-004
167	-2.289405e-004	-3.614483e-004	-2.494396e-004
168	-2.278828e-004	-2.049206e-006	-2.366264e-004
169	1.087561e-004	-9.122482e-004	-3.967503e-004
170	1.093617e-004	-1.178484e-003	-3.920349e-004
171	1.091597e-004	-1.668190e-003	-3.803785e-004
172	-2.500873e-004	-1.581780e-003	-2.794163e-004
173	-2.476929e-004	-9.135441e-004	-2.476660e-004
174	-2.470657e-004	-5.491461e-004	-2.325267e-004
175	1.043934e-004	-1.574778e-003	-3.905135e-004
176	1.040376e-004	-1.831692e-003	-3.856993e-004
177	1.030663e-004	-2.301529e-003	-3.753494e-004
178	-2.673805e-004	-2.110552e-003	-2.630861e-004
179	-2.640003e-004	-1.384019e-003	-2.315416e-004
180	-2.620133e-004	-9.902694e-004	-2.163550e-004
181	1.036278e-004	-2.203699e-003	-3.578570e-004
182	1.028184e-004	-2.452186e-003	-3.535935e-004
183	1.009050e-004	-2.904935e-003	-3.444932e-004
184	-2.816939e-004	-2.600618e-003	-2.307980e-004
185	-2.779167e-004	-1.818442e-003	-2.022248e-004
186	-2.749901e-004	-1.396270e-003	-1.884232e-004
187	1.064423e-004	-2.755294e-003	-3.021274e-004
188	1.052766e-004	-2.996573e-003	-2.986903e-004
189	1.023828e-004	-3.434708e-003	-2.913323e-004
190	-2.916824e-004	-3.024671e-003	-1.842764e-004
191	-2.878974e-004	-2.194611e-003	-1.611992e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
192	-2.844754e-004	-1.747858e-003	-1.501844e-004
193	1.126276e-004	-3.192105e-003	-2.271264e-004
194	1.112218e-004	-3.427886e-003	-2.241405e-004
195	1.075859e-004	-3.854899e-003	-2.177087e-004
196	-2.961536e-004	-3.358972e-003	-1.256293e-004
197	-2.928007e-004	-2.493130e-003	-1.105561e-004
198	-2.891535e-004	-2.028182e-003	-1.035227e-004
199	1.207234e-004	-3.484838e-003	-1.384659e-004
200	1.190376e-004	-3.715282e-003	-1.356138e-004
201	1.149883e-004	-4.131452e-003	-1.294691e-004
202	-2.940613e-004	-3.583517e-003	-5.828101e-005
203	-2.915881e-004	-2.698536e-003	-5.304597e-005
204	-2.882003e-004	-2.223806e-003	-5.076927e-005
205	1.303852e-004	-3.615843e-003	-4.354003e-005
206	1.283733e-004	-3.842288e-003	-4.199136e-005
207	1.238204e-004	-4.250542e-003	-3.890709e-005
208	-2.854408e-004	-3.686109e-003	1.295644e-005
209	-2.840920e-004	-2.800326e-003	8.204772e-006
210	-2.812871e-004	-2.325272e-003	5.479682e-006
211	1.417741e-004	-3.578622e-003	5.229048e-005
212	1.397785e-004	-3.804116e-003	5.252068e-005
213	1.349502e-004	-4.211176e-003	5.256405e-005
214	-2.707156e-004	-3.661725e-003	8.491774e-005
215	-2.706931e-004	-2.793338e-003	7.016593e-005
216	-2.685694e-004	-2.327637e-003	6.246424e-005
217	1.533177e-004	-3.375843e-003	1.438238e-004
218	1.516161e-004	-3.601607e-003	1.439480e-004
219	1.471210e-004	-4.010208e-003	1.437872e-004
220	-2.502181e-004	-3.510248e-003	1.543844e-004
221	-2.517479e-004	-2.677709e-003	1.298086e-004
222	-2.506821e-004	-2.230721e-003	1.175656e-004
223	1.633294e-004	-3.021557e-003	2.236249e-004
224	1.619875e-004	-3.247421e-003	2.235074e-004
225	1.580176e-004	-3.657281e-003	2.227645e-004
226	-2.249728e-004	-3.238888e-003	2.165446e-004
227	-2.282216e-004	-2.458894e-003	1.841762e-004
228	-2.288419e-004	-2.038576e-003	1.685683e-004
229	1.710826e-004	-2.573342e-003	2.825643e-004
230	1.705375e-004	-2.790974e-003	2.829768e-004
231	1.673947e-004	-3.187178e-003	2.830684e-004
232	-1.961510e-004	-2.860154e-003	2.685836e-004
233	-2.011160e-004	-2.133982e-003	2.328940e-004
234	-2.031318e-004	-1.741662e-003	2.163185e-004
235	1.760084e-004	-2.061851e-003	3.211629e-004
236	1.759616e-004	-2.261436e-003	3.226527e-004
237	1.740406e-004	-2.626163e-003	3.243953e-004
238	-1.664754e-004	-2.401342e-003	3.078839e-004
239	-1.730711e-004	-1.723023e-003	2.719942e-004
240	-1.760335e-004	-1.355716e-003	2.555777e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
241	1.772792e-004	-1.499691e-003	3.400320e-004
242	1.780581e-004	-1.678091e-003	3.421483e-004
243	1.773536e-004	-2.006583e-003	3.441382e-004
244	-1.386903e-004	-1.889150e-003	3.324849e-004
245	-1.466299e-004	-1.254467e-003	2.987282e-004
246	-1.504077e-004	-9.096564e-004	2.833602e-004
247	1.730780e-004	-9.202119e-004	3.380023e-004
248	1.758558e-004	-1.075099e-003	3.410963e-004
249	1.766705e-004	-1.365820e-003	3.429379e-004
250	-1.149604e-004	-1.348319e-003	3.426341e-004
251	-1.237022e-004	-7.503964e-004	3.127560e-004
252	-1.279770e-004	-4.244930e-004	2.991130e-004
253	1.616839e-004	-3.587906e-004	3.151117e-004
254	1.671137e-004	-4.873813e-004	3.196018e-004
255	1.716739e-004	-7.408621e-004	3.206621e-004
256	-9.699301e-005	-8.033421e-004	3.394175e-004
257	-1.057659e-004	-2.336514e-004	3.145447e-004
258	-1.101230e-004	7.751699e-005	3.029961e-004
259	1.481995e-004	1.525711e-004	2.763709e-004
260	1.437907e-004	4.918236e-005	2.792536e-004
261	1.563498e-004	-4.658459e-005	2.767951e-004
262	1.676221e-004	-1.696931e-004	2.746862e-004
263	-8.623328e-005	-2.771748e-004	3.247253e-004
264	-9.005249e-005	-2.204625e-006	3.147976e-004
265	-9.345048e-005	2.733811e-004	3.050201e-004
266	-9.795938e-005	5.741754e-004	2.960865e-004
267	1.361186e-004	4.818747e-004	2.432113e-004
268	1.393930e-004	3.870855e-004	2.392793e-004
269	1.465828e-004	1.907962e-004	2.397757e-004
270	-8.210159e-005	7.981100e-005	3.080924e-004
271	-8.947359e-005	6.227010e-004	2.928225e-004
272	-9.320360e-005	9.198592e-004	2.857986e-004
273	1.253058e-004	7.703175e-004	2.065832e-004
274	1.286127e-004	6.818910e-004	2.039422e-004
275	1.319624e-004	5.059974e-004	2.059458e-004
276	-8.177412e-005	4.104562e-004	2.882286e-004
277	-8.831631e-005	9.499742e-004	2.769360e-004
278	-9.168876e-005	1.245635e-003	2.717017e-004
279	1.089405e-004	1.108199e-003	1.584857e-004
280	1.107743e-004	1.030029e-003	1.585158e-004
281	1.132024e-004	8.798814e-004	1.612779e-004
282	-8.651019e-005	8.244376e-004	2.561130e-004
283	-9.154953e-005	1.364425e-003	2.492415e-004
284	-9.422053e-005	1.660106e-003	2.459636e-004
285	9.098547e-005	1.370288e-003	1.155375e-004
286	9.214671e-005	1.302600e-003	1.166830e-004
287	9.426612e-005	1.174486e-003	1.196827e-004
288	-9.648301e-005	1.166295e-003	2.205648e-004
289	-1.001079e-004	1.711224e-003	2.169961e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
290	-1.020329e-004	2.009187e-003	2.152125e-004
291	7.231152e-005	1.562229e-003	7.598550e-005
292	7.306692e-005	1.503412e-003	7.725135e-005
293	7.476930e-005	1.392976e-003	7.992042e-005
294	-1.106419e-004	1.428391e-003	1.828612e-004
295	-1.131436e-004	1.980077e-003	1.814804e-004
296	-1.144298e-004	2.281303e-003	1.807028e-004
297	5.329850e-005	1.687325e-003	3.830529e-005
298	5.362530e-005	1.634719e-003	3.920776e-005
299	5.469424e-005	1.536593e-003	4.097099e-005
300	-1.280416e-004	1.605264e-003	1.438659e-004
301	-1.297780e-004	2.163096e-003	1.437525e-004
302	-1.305976e-004	2.467335e-003	1.435726e-004
303	3.399551e-005	1.747116e-003	1.416373e-006
304	3.382383e-005	1.697442e-003	1.676459e-006
305	3.405983e-005	1.605252e-003	2.073176e-006
306	-1.479347e-004	1.693080e-003	1.041710e-004
307	-1.492320e-004	2.254549e-003	1.046967e-004
308	-1.497611e-004	2.560566e-003	1.048380e-004
309	1.426365e-005	1.741799e-003	-3.553444e-005
310	1.355093e-005	1.691362e-003	-3.608252e-005
311	1.281798e-005	1.597962e-003	-3.732783e-005
312	-1.697937e-004	1.689241e-003	6.423779e-005
313	-1.708752e-004	2.250625e-003	6.509846e-005
314	-1.712495e-004	2.556539e-003	6.543361e-005
315	-6.197680e-006	1.670400e-003	-7.326920e-005
316	-7.447006e-006	1.615270e-003	-7.468925e-005
317	-9.201110e-006	1.513075e-003	-7.765274e-005
318	-1.932842e-004	1.592181e-003	2.452559e-005
319	-1.942213e-004	2.149274e-003	2.572641e-005
320	-1.945070e-004	2.452942e-003	2.626843e-005
321	-2.788978e-005	1.530817e-003	-1.124176e-004
322	-2.957571e-005	1.467013e-003	-1.146735e-004
323	-3.232290e-005	1.348325e-003	-1.192674e-004
324	-2.182006e-004	1.401330e-003	-1.440061e-005
325	-2.188864e-004	1.950152e-003	-1.259802e-005
326	-2.190625e-004	2.249525e-003	-1.172984e-005
327	-5.167273e-005	1.319687e-003	-1.535465e-004
328	-5.338804e-005	1.243482e-003	-1.565060e-004
329	-5.703745e-005	1.100702e-003	-1.625734e-004
330	-2.443732e-004	1.117258e-003	-5.178828e-005
331	-2.445193e-004	1.654658e-003	-4.896131e-005
332	-2.444688e-004	1.948047e-003	-4.764046e-005
333	-7.902367e-005	1.031964e-003	-1.971187e-004
334	-7.961933e-005	9.405312e-004	-2.005824e-004
335	-8.392009e-005	7.661458e-004	-2.081537e-004
336	-2.715642e-004	7.419708e-004	-8.664137e-005
337	-2.706979e-004	1.266038e-003	-8.238074e-005
338	-2.701997e-004	1.552091e-003	-8.074930e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
339	-1.109619e-004	6.607998e-004	-2.430652e-004
340	-1.096752e-004	5.528786e-004	-2.468318e-004
341	-1.130495e-004	3.391316e-004	-2.572856e-004
342	-2.994807e-004	2.793406e-004	-1.176117e-004
343	-2.966810e-004	7.895017e-004	-1.120084e-004
344	-2.954906e-004	1.066662e-003	-1.106030e-004
345	-1.403431e-004	2.025161e-004	-2.895305e-004
346	-1.493519e-004	7.395142e-005	-2.916161e-004
347	-1.441680e-004	-4.421596e-005	-3.039600e-004
348	-1.400811e-004	-1.876929e-004	-3.151684e-004
349	-3.288720e-004	-2.644051e-004	-1.420717e-004
350	-3.244310e-004	-1.327785e-005	-1.401763e-004
351	-3.200894e-004	2.322549e-004	-1.383377e-004
352	-3.192026e-004	4.998789e-004	-1.338378e-004
353	-1.581320e-004	-1.680907e-004	-3.183747e-004
354	-1.638371e-004	-3.215963e-004	-3.297283e-004
355	-1.687482e-004	-6.219289e-004	-3.433911e-004
356	-3.436596e-004	-6.920002e-004	-1.568307e-004
357	-3.372722e-004	-2.044310e-004	-1.486558e-004
358	-3.330748e-004	5.946690e-005	-1.442712e-004
359	-1.700890e-004	-5.716860e-004	-3.447920e-004
360	-1.758934e-004	-7.530504e-004	-3.553687e-004
361	-1.851826e-004	-1.095856e-003	-3.668935e-004
362	-3.553998e-004	-1.145373e-003	-1.631221e-004
363	-3.480886e-004	-6.655636e-004	-1.530862e-004
364	-3.438717e-004	-4.047941e-004	-1.484598e-004
365	-1.747830e-004	-1.238476e-003	-3.701454e-004
366	-1.818862e-004	-1.463283e-003	-3.779133e-004
367	-1.938320e-004	-1.878011e-003	-3.889861e-004
368	-3.637183e-004	-1.875287e-003	-1.576991e-004
369	-3.540534e-004	-1.402765e-003	-1.462752e-004
370	-3.496822e-004	-1.145829e-003	-1.412100e-004
371	-1.618555e-004	-1.911666e-003	-3.753638e-004
372	-1.697169e-004	-2.178896e-003	-3.821577e-004
373	-1.835725e-004	-2.668534e-003	-3.928041e-004
374	-3.574340e-004	-2.596871e-003	-1.351922e-004
375	-3.457228e-004	-2.126254e-003	-1.233644e-004
376	-3.405405e-004	-1.871320e-003	-1.182685e-004
377	-1.306578e-004	-2.543139e-003	-3.631879e-004
378	-1.385383e-004	-2.851192e-003	-3.693459e-004
379	-1.531534e-004	-3.414377e-003	-3.785619e-004
380	-3.346779e-004	-3.265713e-003	-9.731163e-005
381	-3.220932e-004	-2.792131e-003	-8.635411e-005
382	-3.163808e-004	-2.536821e-003	-8.182788e-005
383	-8.233436e-005	-3.088620e-003	-3.360522e-004
384	-8.948922e-005	-3.433094e-003	-3.412609e-004
385	-1.036675e-004	-4.062209e-003	-3.481311e-004
386	-2.948715e-004	-3.838858e-003	-4.731540e-005
387	-2.828965e-004	-3.359416e-003	-3.843927e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
388	-2.773194e-004	-3.102078e-003	-3.501936e-005
389	-1.916354e-005	-3.509339e-003	-2.966075e-004
390	-2.457469e-005	-3.883044e-003	-3.003242e-004
391	-3.632849e-005	-4.565454e-003	-3.037591e-004
392	-2.387477e-004	-4.278715e-003	1.070280e-005
393	-2.291090e-004	-3.792566e-003	1.645928e-005
394	-2.243980e-004	-3.532639e-003	1.827326e-005
395	5.462041e-005	-3.774413e-003	-2.478273e-004
396	5.191522e-005	-4.166351e-003	-2.492372e-004
397	4.502201e-005	-4.881565e-003	-2.480415e-004
398	-1.685365e-004	-4.554823e-003	7.181476e-005
399	-1.629415e-004	-4.063993e-003	7.373440e-005
400	-1.598711e-004	-3.802143e-003	7.379140e-005
401	1.330632e-004	-3.864672e-003	-1.943316e-004
402	1.326658e-004	-4.262207e-003	-1.938057e-004
403	1.296147e-004	-4.986951e-003	-1.894481e-004
404	-8.929908e-005	-4.648501e-003	1.304716e-004
405	-8.820458e-005	-4.156395e-003	1.289257e-004
406	-8.720463e-005	-3.893909e-003	1.274891e-004
407	2.113818e-004	-3.774094e-003	-1.406581e-004
408	2.136306e-004	-4.166142e-003	-1.386785e-004
409	2.149328e-004	-4.881565e-003	-1.318734e-004
410	-5.940078e-006	-4.554931e-003	1.831116e-004
411	-9.708232e-006	-4.063973e-003	1.786242e-004
412	-1.085020e-005	-3.802053e-003	1.757980e-004
413	2.835989e-004	-3.508712e-003	-8.962253e-005
414	2.889756e-004	-3.882622e-003	-8.595236e-005
415	2.963536e-004	-4.565408e-003	-7.629022e-005
416	7.643084e-005	-4.278931e-003	2.264448e-004
417	6.762639e-005	-3.792528e-003	2.195801e-004
418	6.425362e-005	-3.532460e-003	2.158639e-004
419	3.432582e-004	-3.087720e-003	-4.511148e-005
420	3.506491e-004	-3.432511e-003	-4.035842e-005
421	3.620913e-004	-4.062210e-003	-2.968738e-005
422	1.508048e-004	-3.839213e-003	2.577720e-004
423	1.382583e-004	-3.359368e-003	2.498654e-004
424	1.330800e-004	-3.101808e-003	2.459258e-004
425	3.860656e-004	-2.542010e-003	-9.985111e-006
426	3.945986e-004	-2.850503e-003	-4.899780e-006
427	4.083764e-004	-3.414499e-003	5.328792e-006
428	2.117912e-004	-3.266236e-003	2.768082e-004
429	1.970969e-004	-2.792078e-003	2.690918e-004
430	1.908443e-004	-2.536449e-003	2.654293e-004
431	4.087326e-004	-1.910343e-003	1.459458e-005
432	4.178438e-004	-2.178151e-003	1.943165e-005
433	4.326685e-004	-2.668851e-003	2.843412e-005
434	2.553101e-004	-2.597589e-003	2.843557e-004
435	2.401374e-004	-2.126186e-003	2.777736e-004
436	2.335535e-004	-1.870821e-003	2.748141e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
437	4.085860e-004	-1.236963e-003	2.844626e-005
438	4.183208e-004	-1.462500e-003	3.222683e-005
439	4.328442e-004	-1.878555e-003	3.930075e-005
440	2.785418e-004	-1.876209e-003	2.821378e-004
441	2.645044e-004	-1.402657e-003	2.773212e-004
442	2.582521e-004	-1.145153e-003	2.751103e-004
443	3.833061e-004	-5.699451e-004	3.317007e-005
444	3.951812e-004	-7.522084e-004	3.471836e-005
445	4.091477e-004	-1.096613e-003	3.917755e-005
446	2.805708e-004	-1.146486e-003	2.725152e-004
447	2.687010e-004	-6.653558e-004	2.693999e-004
448	2.629262e-004	-4.038536e-004	2.671784e-004
449	3.543509e-004	-1.659456e-004	3.156464e-005
450	3.669487e-004	-3.204364e-004	3.267038e-005
451	3.812761e-004	-6.225210e-004	3.236923e-005
452	2.704458e-004	-6.929505e-004	2.639067e-004
453	2.606595e-004	-2.038420e-004	2.610085e-004
454	2.551319e-004	6.090613e-005	2.586980e-004
455	3.209985e-004	2.050367e-004	2.544161e-005
456	3.262594e-004	7.541963e-005	3.272795e-005
457	3.357154e-004	-4.410034e-005	2.364699e-005
458	3.445085e-004	-1.881527e-004	1.601436e-005
459	2.513324e-004	-2.652118e-004	2.554896e-004
460	2.480265e-004	-1.329388e-005	2.521490e-004
461	2.448094e-004	2.332441e-004	2.488728e-004
462	2.404110e-004	5.018444e-004	2.496033e-004
463	2.625990e-004	6.967394e-004	1.357881e-005
464	2.655412e-004	5.890242e-004	1.107670e-005
465	2.760765e-004	3.766544e-004	1.072056e-005
466	2.149325e-004	3.189804e-004	2.358711e-004
467	2.090300e-004	8.323564e-004	2.355221e-004
468	2.073963e-004	1.111436e-003	2.350220e-004
469	2.042042e-004	1.086726e-003	-3.045336e-007
470	2.075479e-004	9.965773e-004	-7.049747e-007
471	2.156915e-004	8.254637e-004	5.387816e-007
472	1.723748e-004	8.079114e-004	2.203105e-004
473	1.685814e-004	1.336648e-003	2.211957e-004
474	1.670269e-004	1.625296e-003	2.214264e-004
475	1.503676e-004	1.380473e-003	-1.029645e-005
476	1.534359e-004	1.306060e-003	-9.656696e-006
477	1.597517e-004	1.167098e-003	-8.562160e-006
478	1.262307e-004	1.194177e-003	2.071389e-004
479	1.241444e-004	1.737385e-003	2.083840e-004
480	1.231085e-004	2.033862e-003	2.088469e-004
481	1.004283e-004	1.586222e-003	-1.793135e-005
482	1.025799e-004	1.523759e-003	-1.717646e-005
483	1.068721e-004	1.407938e-003	-1.641916e-005
484	7.813549e-005	1.473504e-003	1.961009e-004
485	7.706289e-005	2.028525e-003	1.974095e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
486	7.649089e-005	2.331145e-003	1.978652e-004
487	5.325938e-005	1.709744e-003	-2.454346e-005
488	5.421016e-005	1.654493e-003	-2.391131e-005
489	5.618884e-005	1.552496e-003	-2.350074e-005
490	2.928203e-005	1.644025e-003	1.869726e-004
491	2.862634e-005	2.206612e-003	1.882357e-004
492	2.828992e-005	2.513126e-003	1.886367e-004
493	7.935250e-006	1.754862e-003	-3.076805e-005
494	7.584022e-006	1.701795e-003	-3.029672e-005
495	7.074384e-006	1.604023e-003	-3.020256e-005
496	-1.945957e-005	1.705681e-003	1.795649e-004
497	-2.003016e-005	2.270560e-003	1.807942e-004
498	-2.027945e-005	2.578227e-003	1.811747e-004
499	-3.638866e-005	1.723982e-003	-3.688513e-005
500	-3.802279e-005	1.668061e-003	-3.657498e-005
501	-4.099308e-005	1.564903e-003	-3.673864e-005
502	-6.741605e-005	1.659821e-003	1.738196e-004
503	-6.789125e-005	2.221453e-003	1.750995e-004
504	-6.805144e-005	2.527406e-003	1.755320e-004
505	-8.056578e-005	1.618242e-003	-4.293908e-005
506	-8.335047e-005	1.554619e-003	-4.278488e-005
507	-8.853969e-005	1.436825e-003	-4.313129e-005
508	-1.139642e-004	1.509034e-003	1.698642e-004
509	-1.139770e-004	2.062449e-003	1.712960e-004
510	-1.138856e-004	2.364120e-003	1.718576e-004
511	-1.255361e-004	1.437464e-003	-4.872043e-005
512	-1.291886e-004	1.361691e-003	-4.877819e-005
513	-1.362005e-004	1.220691e-003	-4.923415e-005
514	-1.583760e-004	1.257215e-003	1.680111e-004
515	-1.572472e-004	1.798804e-003	1.696523e-004
516	-1.566103e-004	2.094324e-003	1.703832e-004
517	-1.724962e-004	1.179837e-003	-5.357407e-005
518	-1.763959e-004	1.088264e-003	-5.425156e-005
519	-1.848194e-004	9.162864e-004	-5.480345e-005
520	-1.996699e-004	9.098627e-004	1.686995e-004
521	-1.965256e-004	1.438011e-003	1.704949e-004
522	-1.950307e-004	1.726464e-003	1.713124e-004
523	-2.228499e-004	8.412474e-004	-5.616297e-005
524	-2.258917e-004	7.319251e-004	-5.863548e-005
525	-2.355415e-004	5.217310e-004	-5.978320e-005
526	-2.364890e-004	4.745860e-004	1.724000e-004
527	-2.304822e-004	9.899940e-004	1.740413e-004
528	-2.280735e-004	1.271230e-003	1.745441e-004
529	-2.749550e-004	4.166869e-004	-5.701353e-005
530	-2.785367e-004	2.886837e-004	-5.954271e-005
531	-2.899466e-004	3.283396e-005	-6.605627e-005
532	-2.670256e-004	-3.822932e-005	1.797550e-004
533	-2.577388e-004	4.672197e-004	1.798354e-004
534	-2.541675e-004	7.414430e-004	1.798078e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
535	-2.939812e-004	2.231460e-004	-5.974574e-005
536	-3.002788e-004	8.556095e-005	-5.414619e-005
537	-3.070124e-004	-4.037773e-005	-6.451816e-005
538	-3.134871e-004	-1.904897e-004	-7.367009e-005
539	-2.770787e-004	-2.621123e-004	1.848400e-004
540	-2.717131e-004	-9.138619e-006	1.831798e-004
541	-2.664944e-004	2.401140e-004	1.813984e-004
542	-2.614065e-004	5.118823e-004	1.829392e-004
543	-3.337152e-004	-3.014079e-004	-6.531072e-005
544	-3.448422e-004	-4.755022e-004	-6.675004e-005
545	-3.579826e-004	-8.075432e-004	-6.782967e-005
546	-2.916240e-004	-8.520359e-004	1.929657e-004
547	-2.773489e-004	-3.531621e-004	1.925190e-004
548	-2.703271e-004	-8.205906e-005	1.919973e-004
549	-3.547250e-004	-8.724317e-004	-7.513205e-005
550	-3.644459e-004	-1.084907e-003	-7.453505e-005
551	-3.783066e-004	-1.478300e-003	-7.196715e-005
552	-2.875225e-004	-1.464610e-003	2.034630e-004
553	-2.702003e-004	-9.630604e-004	2.020320e-004
554	-2.623557e-004	-6.903844e-004	2.013314e-004
555	-3.514446e-004	-1.449079e-003	-8.710638e-005
556	-3.603626e-004	-1.698238e-003	-8.520652e-005
557	-3.746412e-004	-2.155143e-003	-8.080727e-005
558	-2.640042e-004	-2.063716e-003	2.128579e-004
559	-2.448393e-004	-1.553058e-003	2.099141e-004
560	-2.363889e-004	-1.276360e-003	2.085273e-004
561	-3.250850e-004	-1.988164e-003	-1.028351e-004
562	-3.332008e-004	-2.271812e-003	-1.005289e-004
563	-3.464186e-004	-2.790320e-003	-9.481560e-005
564	-2.212406e-004	-2.612198e-003	2.186541e-004
565	-2.021612e-004	-2.087251e-003	2.143926e-004
566	-1.938243e-004	-1.804042e-003	2.121768e-004
567	-2.784219e-004	-2.450108e-003	-1.228446e-004
568	-2.852556e-004	-2.763774e-003	-1.205649e-004
569	-2.962242e-004	-3.336250e-003	-1.139356e-004
570	-1.613974e-004	-3.074115e-003	2.185694e-004
571	-1.443896e-004	-2.532312e-003	2.134951e-004
572	-1.370497e-004	-2.241123e-003	2.106826e-004
573	-2.149567e-004	-2.800862e-003	-1.469720e-004
574	-2.196307e-004	-3.137913e-003	-1.451895e-004
575	-2.265569e-004	-3.752769e-003	-1.385509e-004
576	-8.790258e-005	-3.418475e-003	2.108786e-004
577	-7.495464e-005	-2.859765e-003	2.058104e-004
578	-6.951086e-005	-2.560480e-003	2.027032e-004
579	-1.394084e-004	-3.013857e-003	-1.736604e-004
580	-1.408509e-004	-3.364324e-003	-1.725982e-004
581	-1.416168e-004	-4.002913e-003	-1.670826e-004
582	-5.652034e-006	-3.620483e-003	1.944946e-004
583	1.514936e-006	-3.048212e-003	1.904253e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
584	4.422142e-006	-2.742206e-003	1.875896e-004
585	-5.865168e-005	-3.073360e-003	-2.010671e-004
586	-5.754145e-005	-3.426187e-003	-2.005612e-004
587	-5.419996e-005	-4.068161e-003	-1.960765e-004
588	7.837047e-005	-3.666108e-003	1.701670e-004
589	7.962998e-005	-3.085432e-003	1.677417e-004
590	7.987510e-005	-2.774971e-003	1.656973e-004
591	2.125879e-005	-2.975586e-003	-2.281890e-004
592	2.459436e-005	-3.321505e-003	-2.287004e-004
593	3.148733e-005	-3.951317e-003	-2.258806e-004
594	1.588429e-004	-3.553727e-003	1.395558e-004
595	1.542230e-004	-2.969470e-003	1.394525e-004
596	1.517558e-004	-2.657065e-003	1.383646e-004
597	9.499443e-005	-2.727495e-003	-2.522314e-004
598	1.010043e-004	-3.056102e-003	-2.539959e-004
599	1.128117e-004	-3.654674e-003	-2.539181e-004
600	2.305851e-004	-3.290235e-003	1.045619e-004
601	2.201476e-004	-2.708733e-003	1.074043e-004
602	2.151817e-004	-2.397312e-003	1.076772e-004
603	1.560623e-004	-2.347812e-003	-2.704281e-004
604	1.636187e-004	-2.650184e-003	-2.728382e-004
605	1.777173e-004	-3.200749e-003	-2.748723e-004
606	2.875104e-004	-2.894835e-003	6.884978e-005
607	2.727783e-004	-2.321999e-003	7.457860e-005
608	2.659676e-004	-2.014316e-003	7.637776e-005
609	1.997539e-004	-1.865955e-003	-2.811931e-004
610	2.076831e-004	-2.137078e-003	-2.839376e-004
611	2.217223e-004	-2.631054e-003	-2.874096e-004
612	3.261869e-004	-2.397838e-003	3.630113e-005
613	3.088258e-004	-1.837474e-003	4.458970e-005
614	3.008535e-004	-1.535514e-003	4.771505e-005
615	2.232418e-004	-1.318634e-003	-2.825704e-004
616	2.307661e-004	-1.556109e-003	-2.856160e-004
617	2.433011e-004	-1.989778e-003	-2.898512e-004
618	3.446980e-004	-1.836038e-003	1.040469e-005
619	3.261679e-004	-1.290818e-003	2.071956e-005
620	3.175383e-004	-9.960606e-004	2.491719e-005
621	2.246623e-004	-7.479420e-004	-2.723286e-004
622	2.311504e-004	-9.518992e-004	-2.765739e-004
623	2.404714e-004	-1.328127e-003	-2.808326e-004
624	3.423923e-004	-1.251658e-003	-5.549574e-006
625	3.238708e-004	-7.230184e-004	5.927832e-006
626	3.142325e-004	-4.373045e-004	1.061944e-005
627	2.048821e-004	-2.071359e-004	-2.490439e-004
628	2.106579e-004	-3.898631e-004	-2.562491e-004
629	2.164490e-004	-7.384135e-004	-2.623930e-004
630	3.234129e-004	-7.343979e-004	-9.169157e-006
631	3.051967e-004	-2.368464e-004	1.735306e-006
632	2.940588e-004	3.058493e-005	6.720991e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
633	1.678714e-004	2.690546e-004	-2.189211e-004
634	1.734484e-004	1.061537e-004	-2.177411e-004
635	1.710035e-004	-4.509089e-005	-2.285363e-004
636	1.688921e-004	-2.190335e-004	-2.387274e-004
637	2.911047e-004	-2.624055e-004	1.175470e-006
638	2.803864e-004	-2.347538e-005	2.724601e-006
639	2.696263e-004	2.050456e-004	4.032108e-006
640	2.627122e-004	4.531168e-004	1.118023e-005
641	1.217143e-004	6.628300e-004	-1.862200e-004
642	1.196664e-004	5.050952e-004	-1.894091e-004
643	1.239019e-004	2.005465e-004	-1.956022e-004
644	2.466828e-004	1.392459e-004	1.004133e-005
645	2.319384e-004	5.784527e-004	1.978773e-005
646	2.256527e-004	8.151354e-004	2.256189e-005
647	7.489189e-005	9.598350e-004	-1.553989e-004
648	7.578823e-005	8.072101e-004	-1.579456e-004
649	8.127965e-005	5.211435e-004	-1.621463e-004
650	2.055927e-004	4.627627e-004	2.383438e-005
651	1.937019e-004	8.767553e-004	3.331073e-005
652	1.880644e-004	1.102393e-003	3.729601e-005
653	3.543362e-005	1.168512e-003	-1.263009e-004
654	3.792039e-005	1.023418e-003	-1.284805e-004
655	4.367761e-005	7.542860e-004	-1.324247e-004
656	1.669449e-004	7.098157e-004	3.909952e-005
657	1.572300e-004	1.102014e-003	4.732050e-005
658	1.524285e-004	1.316370e-003	5.142058e-005
659	2.188043e-006	1.300831e-003	-9.954885e-005
660	5.058822e-006	1.163649e-003	-1.015823e-004
661	1.083316e-005	9.100384e-004	-1.054083e-004
662	1.311155e-004	8.837219e-004	5.481940e-005
663	1.231931e-004	1.257233e-003	6.177372e-005
664	1.192133e-004	1.461316e-003	6.538475e-005
665	-2.622519e-005	1.366858e-003	-7.539262e-005
666	-2.338627e-005	1.236955e-003	-7.727085e-005
667	-1.781710e-005	9.972577e-004	-8.086732e-005
668	9.844526e-005	9.890719e-004	7.033325e-005
669	9.194294e-005	1.346381e-003	7.620632e-005
670	8.864655e-005	1.541418e-003	7.926235e-005
671	-5.054451e-005	1.375259e-003	-5.388165e-005
672	-4.789782e-005	1.251637e-003	-5.554119e-005
673	-4.276019e-005	1.023915e-003	-5.876606e-005
674	6.912316e-005	1.031373e-003	8.510776e-005
675	6.370082e-005	1.374280e-003	9.012073e-005
676	6.093352e-005	1.561262e-003	9.270658e-005
677	-7.122509e-005	1.333911e-003	-3.502574e-005
678	-6.887316e-005	1.215388e-003	-3.641164e-005
679	-6.436050e-005	9.973888e-004	-3.914277e-005
680	4.321907e-005	1.016745e-003	9.872217e-005
681	3.860208e-005	1.346455e-003	1.030772e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
682	3.623606e-005	1.526078e-003	1.052956e-004
683	-8.860486e-005	1.250166e-003	-1.883115e-005
684	-8.662196e-005	1.135452e-003	-1.991196e-005
685	-8.286869e-005	9.247016e-004	-2.206592e-005
686	2.072689e-005	9.516837e-004	1.108647e-004
687	1.672205e-005	1.268960e-003	1.147206e-004
688	1.466883e-005	1.441691e-003	1.166587e-004
689	-1.029433e-004	1.130985e-003	-5.295820e-006
690	-1.013713e-004	1.018752e-003	-6.067266e-006
691	-9.844074e-005	8.126971e-004	-7.609384e-006
692	1.600440e-006	8.428838e-004	1.213217e-004
693	-1.900608e-006	1.148238e-003	1.247831e-004
694	-3.688093e-006	1.314408e-003	1.265030e-004
695	-1.144325e-004	9.830295e-004	5.596057e-006
696	-1.132773e-004	8.719941e-004	5.115989e-006
697	-1.111579e-004	6.681630e-004	4.165310e-006
698	-1.421801e-005	6.971168e-004	1.299598e-004
699	-1.724286e-005	9.909989e-004	1.330764e-004
700	-1.876909e-005	1.150905e-003	1.346116e-004
701	-1.232064e-004	8.127482e-004	1.385132e-005
702	-1.224424e-004	7.017283e-004	1.366092e-005
703	-1.210443e-004	4.979046e-004	1.322591e-005
704	-2.677517e-005	5.211657e-004	1.367001e-004
705	-2.928058e-005	8.041349e-004	1.394786e-004
706	-3.047976e-005	9.581604e-004	1.408374e-004
707	-1.293574e-004	6.265057e-004	1.937463e-005
708	-1.289430e-004	5.143746e-004	1.961619e-005
709	-1.280766e-004	3.087684e-004	1.959906e-005
710	-3.609720e-005	3.218198e-004	1.414636e-004
711	-3.797494e-005	5.946663e-004	1.439296e-004
712	-3.857645e-005	7.434974e-004	1.451155e-004
713	-1.329943e-004	4.307966e-004	2.192674e-005
714	-1.329353e-004	3.162114e-004	2.295368e-005
715	-1.321252e-004	1.076108e-004	2.349075e-005
716	-4.226167e-005	1.059588e-004	1.439849e-004
717	-4.320902e-005	3.696835e-004	1.465187e-004
718	-4.259675e-005	5.147815e-004	1.475305e-004
719	-1.343974e-004	2.319172e-004	2.219548e-005
720	-1.353114e-004	1.133542e-004	2.279473e-005
721	-1.338595e-004	4.873267e-006	2.440208e-005
722	-1.323774e-004	-9.881103e-005	2.604600e-005
723	-4.604192e-005	-1.192032e-004	1.428905e-004
724	-4.507300e-005	5.623809e-006	1.456353e-004
725	-4.410145e-005	1.362382e-004	1.483685e-004
726	-4.341412e-005	2.797569e-004	1.484128e-004

Prueba de carga 2

Desplazamientos de nudos

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
1	6.043594e-004	1.915450e-003	-4.182535e-004
2	6.021107e-004	8.968301e-004	-4.301531e-004
3	6.217008e-004	-5.139079e-005	-4.305126e-004
4	6.393477e-004	-1.041866e-003	-4.308721e-004
5	-6.394127e-004	-1.041976e-003	-4.307717e-004
6	-6.217643e-004	-5.139946e-005	-4.304126e-004
7	-6.021709e-004	8.969170e-004	-4.300534e-004
8	-6.044187e-004	1.915638e-003	-4.181538e-004
9	6.151935e-004	1.115732e-003	-4.004284e-004
10	6.207439e-004	7.261131e-005	-4.077709e-004
11	6.211765e-004	-1.867231e-003	-4.079859e-004
12	-6.212388e-004	-1.867140e-003	-4.078787e-004
13	-6.208048e-004	7.289450e-005	-4.076683e-004
14	-6.152503e-004	1.116114e-003	-4.003292e-004
15	6.213848e-004	3.845080e-004	-3.434739e-004
16	6.225770e-004	-6.667928e-004	-3.443556e-004
17	6.186847e-004	-2.605761e-003	-3.431399e-004
18	-6.187420e-004	-2.605443e-003	-3.430111e-004
19	-6.226294e-004	-6.663035e-004	-3.442460e-004
20	-6.214298e-004	3.850789e-004	-3.433776e-004
21	6.204239e-004	-1.993151e-004	-2.498041e-004
22	6.207359e-004	-1.248376e-003	-2.468757e-004
23	6.163488e-004	-3.181208e-003	-2.411649e-004
24	-6.163871e-004	-3.180602e-003	-2.409986e-004
25	-6.207636e-004	-1.247669e-003	-2.467608e-004
26	-6.204381e-004	-1.985738e-004	-2.497209e-004
27	6.140642e-004	-5.765489e-004	-1.326096e-004
28	6.143934e-004	-1.614841e-003	-1.256650e-004
29	6.099903e-004	-3.527957e-003	-1.119378e-004
30	-6.099817e-004	-3.526976e-003	-1.117219e-004
31	-6.143662e-004	-1.613918e-003	-1.255576e-004
32	-6.140148e-004	-5.756929e-004	-1.325649e-004
33	6.027564e-004	-7.157353e-004	-6.545405e-006
34	6.029796e-004	-1.734788e-003	3.643738e-006
35	5.986461e-004	-3.612143e-003	2.359533e-005
36	-5.985441e-004	-3.610681e-003	2.386293e-005
37	-6.028481e-004	-1.733694e-003	3.712570e-006
38	-6.025916e-004	-7.148961e-004	-6.587280e-006
39	5.875195e-004	-6.115369e-004	1.162680e-004
40	5.879226e-004	-1.605014e-003	1.297461e-004
41	5.836954e-004	-3.435741e-003	1.560197e-004
42	-5.834288e-004	-3.433705e-003	1.563218e-004
43	-5.876124e-004	-1.603883e-003	1.297171e-004
44	-5.871622e-004	-6.109765e-004	1.160590e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
45	5.672845e-004	-2.819421e-004	2.238011e-004
46	5.676842e-004	-1.241224e-003	2.413585e-004
47	5.636282e-004	-3.008895e-003	2.759125e-004
48	-5.630954e-004	-3.006250e-003	2.761994e-004
49	-5.670905e-004	-1.240346e-003	2.411326e-004
50	-5.666265e-004	-2.821295e-004	2.232994e-004
51	5.419871e-004	2.295379e-004	3.019681e-004
52	5.428448e-004	-6.872257e-004	3.229270e-004
53	5.392514e-004	-2.377633e-003	3.622883e-004
54	-5.383175e-004	-2.374486e-003	3.624594e-004
55	-5.418283e-004	-6.871345e-004	3.223519e-004
56	-5.408774e-004	2.278202e-004	3.009850e-004
57	5.119752e-004	8.543982e-004	3.397954e-004
58	5.150167e-004	-1.245747e-005	3.643189e-004
59	5.141051e-004	-1.619896e-003	4.051340e-004
60	-5.126154e-004	-1.616615e-003	4.050145e-004
61	-5.133932e-004	-1.404982e-005	3.631768e-004
62	-5.102084e-004	8.499111e-004	3.380671e-004
63	4.833652e-004	1.511874e-003	3.388832e-004
64	4.775592e-004	6.986119e-004	3.590806e-004
65	4.884958e-004	-5.088763e-005	3.791405e-004
66	4.980696e-004	-8.247863e-004	3.992003e-004
67	-4.959675e-004	-8.221691e-004	3.985174e-004
68	-4.861563e-004	-5.167258e-005	3.777977e-004
69	-4.750020e-004	6.939403e-004	3.570781e-004
70	-4.807876e-004	1.502863e-003	3.362097e-004
71	4.677532e-004	1.925870e-003	3.237255e-004
72	4.707831e-004	1.134331e-003	3.386604e-004
73	4.726667e-004	-3.388863e-004	3.767904e-004
74	-4.698369e-004	-3.373667e-004	3.757017e-004
75	-4.677860e-004	1.126744e-003	3.360542e-004
76	-4.646107e-004	1.913057e-003	3.204128e-004
77	4.561746e-004	2.315039e-003	3.006196e-004
78	4.577571e-004	1.543136e-003	3.159179e-004
79	4.555124e-004	1.170321e-004	3.513255e-004
80	-4.519844e-004	1.170087e-004	3.499212e-004
81	-4.541381e-004	1.531952e-003	3.128258e-004
82	-4.524483e-004	2.297633e-003	2.967173e-004
83	4.379732e-004	2.836923e-003	2.616930e-004
84	4.371606e-004	2.097244e-003	2.769112e-004
85	4.341426e-004	7.368353e-004	3.080791e-004
86	-4.294683e-004	7.339052e-004	3.063027e-004
87	-4.324375e-004	2.079643e-003	2.732768e-004
88	-4.332020e-004	2.811292e-003	2.571479e-004
89	4.202858e-004	3.282315e-003	2.182835e-004
90	4.188438e-004	2.572997e-003	2.319425e-004
91	4.158603e-004	1.269768e-003	2.587751e-004
92	-4.099632e-004	1.263318e-003	2.566994e-004
93	-4.129377e-004	2.548128e-003	2.279454e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
94	-4.143807e-004	3.247465e-003	2.133427e-004
95	4.046624e-004	3.641984e-003	1.692961e-004
96	4.031803e-004	2.959125e-003	1.809157e-004
97	4.003223e-004	1.704627e-003	2.035346e-004
98	-3.932006e-004	1.694127e-003	2.011879e-004
99	-3.960977e-004	2.926468e-003	1.767262e-004
100	-3.976324e-004	3.597409e-003	1.642098e-004
101	3.915328e-004	3.904946e-003	1.142149e-004
102	3.901168e-004	3.244236e-003	1.237888e-004
103	3.873843e-004	2.030344e-003	1.423883e-004
104	-3.791355e-004	2.015298e-003	1.397930e-004
105	-3.819660e-004	3.203618e-003	1.196057e-004
106	-3.834950e-004	3.850662e-003	1.092739e-004
107	3.808708e-004	4.059606e-003	5.289628e-005
108	3.795290e-004	3.416865e-003	6.052174e-005
109	3.769113e-004	2.235863e-003	7.531755e-005
110	-3.677538e-004	2.215838e-003	7.253807e-005
111	-3.705409e-004	3.368556e-003	5.661930e-005
112	-3.720649e-004	3.996285e-003	4.848061e-005
113	3.725561e-004	4.094192e-003	-1.472555e-005
114	3.712817e-004	3.465455e-003	-8.942830e-006
115	3.687665e-004	2.310056e-003	2.263358e-006
116	-3.590600e-004	2.284814e-003	-5.315313e-007
117	-3.618273e-004	3.410363e-003	-1.216133e-005
118	-3.633568e-004	4.023372e-003	-1.809800e-005
119	3.664668e-004	3.996807e-003	-8.872106e-005
120	3.652463e-004	3.378321e-003	-8.468754e-005
121	3.628193e-004	2.241643e-003	-7.687741e-005
122	-3.530761e-004	2.211411e-003	-7.933243e-005
123	-3.558434e-004	3.318287e-003	-8.663299e-005
124	-3.573826e-004	3.921195e-003	-9.035415e-005
125	3.624789e-004	3.755401e-003	-1.691983e-004
126	3.613151e-004	3.143602e-003	-1.668194e-004
127	3.589606e-004	2.019100e-003	-1.622616e-004
128	-3.498327e-004	1.985016e-003	-1.637275e-004
129	-3.526071e-004	3.081792e-003	-1.666680e-004
130	-3.541194e-004	3.679221e-003	-1.682020e-004
131	3.603087e-004	3.357581e-003	-2.564497e-004
132	3.594113e-004	2.749222e-003	-2.554575e-004
133	3.571435e-004	1.630547e-003	-2.541125e-004
134	-3.493575e-004	1.595339e-003	-2.535075e-004
135	-3.520902e-004	2.690592e-003	-2.521315e-004
136	-3.532956e-004	3.286891e-003	-2.517777e-004
137	3.589171e-004	2.789821e-003	-3.513842e-004
138	3.594045e-004	2.182906e-003	-3.507012e-004
139	3.575599e-004	1.063606e-003	-3.527325e-004
140	-3.517380e-004	1.032576e-003	-3.483668e-004
141	-3.540318e-004	2.134624e-003	-3.429230e-004
142	-3.537008e-004	2.732650e-003	-3.419824e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
143	3.565710e-004	2.036383e-003	-4.546097e-004
144	3.601512e-004	1.432265e-003	-4.525727e-004
145	3.617610e-004	3.052387e-004	-4.585117e-004
146	-3.579707e-004	2.876270e-004	-4.478594e-004
147	-3.568466e-004	1.403895e-003	-4.390750e-004
148	-3.529468e-004	2.002264e-003	-4.399430e-004
149	3.610187e-004	1.089061e-003	-5.536587e-004
150	3.512409e-004	4.850222e-004	-5.609461e-004
151	3.666303e-004	-6.918397e-005	-5.664317e-004
152	3.811712e-004	-6.584230e-004	-5.719174e-004
153	-3.775522e-004	-6.475338e-004	-5.513018e-004
154	-3.641378e-004	-6.351322e-005	-5.461476e-004
155	-3.496636e-004	4.880249e-004	-5.409934e-004
156	-3.563493e-004	1.086310e-003	-5.357127e-004
157	3.682899e-004	3.653953e-004	-6.064834e-004
158	3.699564e-004	-2.567026e-004	-6.237070e-004
159	3.726323e-004	-1.417292e-003	-6.399402e-004
160	-3.704681e-004	-1.375350e-003	-6.107928e-004
161	-3.657446e-004	-2.267574e-004	-6.009013e-004
162	-3.599616e-004	3.840768e-004	-5.899281e-004
163	3.786885e-004	-1.742734e-004	-6.332700e-004
164	3.786761e-004	-8.813999e-004	-6.566304e-004
165	3.736212e-004	-2.191904e-003	-6.849583e-004
166	-3.727453e-004	-2.218938e-003	-6.504726e-004
167	-3.730964e-004	-1.186087e-003	-6.467857e-004
168	-3.698866e-004	-6.285185e-004	-6.424148e-004
169	3.963849e-004	-9.885390e-004	-6.621440e-004
170	3.958597e-004	-1.794489e-003	-6.824947e-004
171	3.893529e-004	-3.284256e-003	-7.163299e-004
172	-3.742659e-004	-3.491730e-003	-6.664099e-004
173	-3.762035e-004	-2.588098e-003	-6.623745e-004
174	-3.764264e-004	-2.096448e-003	-6.597634e-004
175	4.198753e-004	-2.039206e-003	-6.546309e-004
176	4.178885e-004	-2.881816e-003	-6.727064e-004
177	4.110283e-004	-4.435124e-003	-7.070885e-004
178	-3.734899e-004	-4.708520e-003	-6.404076e-004
179	-3.757675e-004	-3.795683e-003	-6.340322e-004
180	-3.761837e-004	-3.298532e-003	-6.308384e-004
181	4.458282e-004	-3.035353e-003	-6.056822e-004
182	4.442003e-004	-3.911230e-003	-6.218904e-004
183	4.377458e-004	-5.526571e-003	-6.536575e-004
184	-3.685001e-004	-5.844967e-003	-5.740380e-004
185	-3.711418e-004	-4.920731e-003	-5.678261e-004
186	-3.713199e-004	-4.417585e-003	-5.649183e-004
187	4.733966e-004	-3.909735e-003	-5.208123e-004
188	4.726711e-004	-4.814323e-003	-5.343957e-004
189	4.669029e-004	-6.484019e-003	-5.611017e-004
190	-3.583731e-004	-6.832922e-003	-4.722553e-004
191	-3.614459e-004	-5.899770e-003	-4.678791e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
192	-3.613844e-004	-5.392132e-003	-4.660919e-004
193	5.008671e-004	-4.605529e-003	-4.060984e-004
194	5.012884e-004	-5.532469e-003	-4.154437e-004
195	4.966298e-004	-7.244885e-003	-4.334433e-004
196	-3.425238e-004	-7.614878e-003	-3.384549e-004
197	-3.463281e-004	-6.678001e-003	-3.390030e-004
198	-3.461389e-004	-6.168863e-003	-3.397158e-004
199	5.253125e-004	-5.078549e-003	-2.696786e-004
200	5.265589e-004	-6.017770e-003	-2.735055e-004
201	5.233517e-004	-7.753093e-003	-2.800876e-004
202	-3.199192e-004	-8.138093e-003	-1.815779e-004
203	-3.246857e-004	-7.210021e-003	-1.894078e-004
204	-3.249116e-004	-6.705622e-003	-1.935744e-004
205	5.452700e-004	-5.301020e-003	-1.218229e-004
206	5.470448e-004	-6.242414e-003	-1.208994e-004
207	5.449976e-004	-7.981520e-003	-1.185102e-004
208	-2.929121e-004	-8.376948e-003	-1.801238e-005
209	-2.982513e-004	-7.468974e-003	-3.042983e-005
210	-2.989463e-004	-6.975228e-003	-3.706817e-005
211	5.601539e-004	-5.261703e-003	2.886625e-005
212	5.627806e-004	-6.196462e-003	3.464784e-005
213	5.619349e-004	-7.923958e-003	4.620096e-005
214	-2.631404e-004	-8.324944e-003	1.484272e-004
215	-2.689994e-004	-7.444169e-003	1.314893e-004
216	-2.699171e-004	-6.965345e-003	1.224168e-004
217	5.679067e-004	-4.964444e-003	1.737666e-004
218	5.715569e-004	-5.881817e-003	1.856102e-004
219	5.723191e-004	-7.577827e-003	2.092172e-004
220	-2.300848e-004	-7.977511e-003	3.135456e-004
221	-2.367235e-004	-7.134882e-003	2.896612e-004
222	-2.382600e-004	-6.676572e-003	2.774609e-004
223	5.665242e-004	-4.430376e-003	3.020974e-004
224	5.713919e-004	-5.318527e-003	3.195172e-004
225	5.737857e-004	-6.961428e-003	3.532099e-004
226	-1.955798e-004	-7.349533e-003	4.606519e-004
227	-2.026751e-004	-6.556398e-003	4.328549e-004
228	-2.055144e-004	-6.123867e-003	4.190998e-004
229	5.565701e-004	-3.743700e-003	3.991491e-004
230	5.630471e-004	-4.580506e-003	4.229866e-004
231	5.677611e-004	-6.128220e-003	4.673080e-004
232	-1.625998e-004	-6.473938e-003	5.824799e-004
233	-1.692514e-004	-5.703846e-003	5.585309e-004
234	-1.728987e-004	-5.283754e-003	5.471642e-004
235	5.389747e-004	-2.941205e-003	4.670527e-004
236	5.459858e-004	-3.704242e-003	4.962743e-004
237	5.534851e-004	-5.113601e-003	5.495562e-004
238	-1.349133e-004	-5.406356e-003	6.742276e-004
239	-1.407412e-004	-4.622952e-003	6.572048e-004
240	-1.440584e-004	-4.195674e-003	6.493736e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
241	5.131301e-004	-2.041469e-003	5.064553e-004
242	5.210671e-004	-2.720107e-003	5.387894e-004
243	5.312128e-004	-3.973243e-003	5.959444e-004
244	-1.158386e-004	-4.215793e-003	7.303090e-004
245	-1.205381e-004	-3.397926e-003	7.210281e-004
246	-1.231749e-004	-2.951814e-003	7.167251e-004
247	4.780678e-004	-1.096225e-003	5.149698e-004
248	4.884164e-004	-1.684271e-003	5.491433e-004
249	5.012443e-004	-2.774034e-003	6.064332e-004
250	-1.072451e-004	-2.966587e-003	7.522201e-004
251	-1.105160e-004	-2.096705e-003	7.496918e-004
252	-1.118623e-004	-1.623093e-003	7.476329e-004
253	4.327931e-004	-1.610329e-004	4.918119e-004
254	4.463290e-004	-6.548804e-004	5.268800e-004
255	4.643544e-004	-1.583025e-003	5.806276e-004
256	-1.107620e-004	-1.721584e-003	7.416092e-004
257	-1.111775e-004	-7.881868e-004	7.435857e-004
258	-1.105000e-004	-2.837831e-004	7.415183e-004
259	3.851150e-004	7.122609e-004	4.429922e-004
260	3.851256e-004	3.084596e-004	4.738860e-004
261	4.082525e-004	-6.233664e-005	4.946415e-004
262	4.287588e-004	-4.678374e-004	5.154242e-004
263	-1.318579e-004	-5.419705e-004	7.014311e-004
264	-1.248571e-004	-3.353099e-005	7.017381e-004
265	-1.180816e-004	4.591231e-004	7.020526e-004
266	-1.215101e-004	9.949135e-004	7.055025e-004
267	3.488986e-004	1.289378e-003	3.981020e-004
268	3.586405e-004	9.337881e-004	4.177244e-004
269	3.793796e-004	2.566313e-004	4.615351e-004
270	-1.416280e-004	2.394325e-004	6.564741e-004
271	-1.396288e-004	1.288137e-003	6.616870e-004
272	-1.359750e-004	1.853342e-003	6.666372e-004
273	3.154369e-004	1.806818e-003	3.464776e-004
274	3.244764e-004	1.493138e-003	3.650864e-004
275	3.393369e-004	9.056168e-004	4.058531e-004
276	-1.586357e-004	9.503709e-004	6.101273e-004
277	-1.587063e-004	2.044220e-003	6.168386e-004
278	-1.562267e-004	2.637610e-003	6.209339e-004
279	2.676943e-004	2.428445e-003	2.742332e-004
280	2.740268e-004	2.170586e-003	2.924391e-004
281	2.863286e-004	1.694826e-003	3.271350e-004
282	-1.880555e-004	1.826575e-003	5.412830e-004
283	-1.881154e-004	2.979078e-003	5.484693e-004
284	-1.872243e-004	3.606139e-003	5.517687e-004
285	2.200757e-004	2.924670e-003	2.044027e-004
286	2.245620e-004	2.714831e-003	2.201864e-004
287	2.348152e-004	2.330828e-003	2.481391e-004
288	-2.215300e-004	2.542150e-003	4.689130e-004
289	-2.214270e-004	3.744855e-003	4.755516e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
290	-2.207906e-004	4.399157e-003	4.783089e-004
291	1.737856e-004	3.296316e-003	1.351877e-004
292	1.765924e-004	3.124088e-003	1.473420e-004
293	1.843084e-004	2.810753e-003	1.680962e-004
294	-2.581584e-004	3.088279e-003	3.937039e-004
295	-2.582834e-004	4.330371e-003	3.988932e-004
296	-2.577051e-004	5.005712e-003	4.008895e-004
297	1.293576e-004	3.542533e-003	6.512155e-005
298	1.302322e-004	3.396051e-003	7.315083e-005
299	1.347457e-004	3.131015e-003	8.629167e-005
300	-2.972768e-004	3.457758e-003	3.161163e-004
301	-2.981391e-004	4.726152e-003	3.190757e-004
302	-2.978126e-004	5.415450e-003	3.199767e-004
303	8.696162e-005	3.661591e-003	-6.692795e-006
304	8.553470e-005	3.528107e-003	-3.026685e-006
305	8.613787e-005	3.287693e-003	2.155492e-006
306	-3.383547e-004	3.644649e-003	2.364127e-004
307	-3.404890e-004	4.924243e-003	2.365165e-004
308	-3.406761e-004	5.619374e-003	2.360322e-004
309	4.664183e-005	3.651466e-003	-8.088912e-005
310	4.252432e-005	3.517541e-003	-8.172948e-005
311	3.849798e-005	3.276840e-003	-8.475232e-005
312	-3.809901e-004	3.644006e-003	1.547189e-004
313	-3.849220e-004	4.917998e-003	1.515035e-004
314	-3.858854e-004	5.609917e-003	1.494173e-004
315	8.376287e-006	3.510115e-003	-1.579807e-004
316	1.195186e-006	3.361718e-003	-1.634052e-004
317	-8.178022e-006	3.094721e-003	-1.747713e-004
318	-4.249001e-004	3.451690e-003	7.107682e-005
319	-4.311292e-004	4.701890e-003	6.422662e-005
320	-4.331196e-004	5.380799e-003	6.039127e-005
321	-2.798272e-005	3.235595e-003	-2.384122e-004
322	-3.849090e-005	3.058242e-003	-2.484218e-004
323	-5.391447e-005	2.737980e-003	-2.681700e-004
324	-4.699006e-004	3.064247e-003	-1.451689e-005
325	-4.788943e-004	4.271351e-003	-2.519730e-005
326	-4.821446e-004	4.926829e-003	-3.089575e-005
327	-6.296774e-005	2.825951e-003	-3.225856e-004
328	-7.661771e-005	2.605075e-003	-3.370704e-004
329	-9.873943e-005	2.203759e-003	-3.651816e-004
330	-5.158884e-004	2.478843e-003	-1.020768e-004
331	-5.280640e-004	3.622641e-003	-1.167167e-004
332	-5.327627e-004	4.243592e-003	-1.245865e-004
333	-9.792757e-005	2.278689e-003	-4.107786e-004
334	-1.134251e-004	2.000640e-003	-4.294949e-004
335	-1.425716e-004	1.489771e-003	-4.661030e-004
336	-5.628901e-004	1.693239e-003	-1.915479e-004
337	-5.784378e-004	2.752735e-003	-2.104135e-004
338	-5.846254e-004	3.326504e-003	-2.218595e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
339	-1.336835e-004	1.590611e-003	-5.025300e-004
340	-1.500832e-004	1.243865e-003	-5.251076e-004
341	-1.844681e-004	5.943666e-004	-5.718849e-004
342	-6.116887e-004	7.058288e-004	-2.822583e-004
343	-6.290677e-004	1.659210e-003	-3.070719e-004
344	-6.367871e-004	2.169122e-003	-3.248782e-004
345	-1.603759e-004	7.643957e-004	-5.948978e-004
346	-1.938612e-004	3.340724e-004	-6.183667e-004
347	-2.047147e-004	-5.883950e-005	-6.547851e-004
348	-2.174377e-004	-4.832704e-004	-6.883982e-004
349	-6.690715e-004	-4.843225e-004	-3.684829e-004
350	-6.706035e-004	-5.742887e-005	-3.912245e-004
351	-6.729277e-004	3.401377e-004	-4.127053e-004
352	-6.872574e-004	7.707110e-004	-4.227790e-004
353	-1.723523e-004	1.077021e-004	-6.539165e-004
354	-2.032439e-004	-3.991399e-004	-6.920173e-004
355	-2.499307e-004	-1.349733e-003	-7.522219e-004
356	-6.883291e-004	-1.444474e-003	-4.343760e-004
357	-7.119408e-004	-7.230705e-004	-4.671310e-004
358	-7.170539e-004	-3.415191e-004	-4.808634e-004
359	-1.744679e-004	-5.964519e-004	-7.096203e-004
360	-2.064621e-004	-1.186741e-003	-7.481897e-004
361	-2.623230e-004	-2.282003e-003	-8.080277e-004
362	-7.002083e-004	-2.477828e-003	-4.792267e-004
363	-7.291997e-004	-1.867238e-003	-5.096376e-004
364	-7.385541e-004	-1.538537e-003	-5.238881e-004
365	-1.542383e-004	-1.738134e-003	-7.749220e-004
366	-1.886578e-004	-2.464741e-003	-8.103924e-004
367	-2.506483e-004	-3.804024e-003	-8.712381e-004
368	-6.927000e-004	-4.161089e-003	-5.162374e-004
369	-7.226447e-004	-3.731381e-003	-5.443688e-004
370	-7.357578e-004	-3.497171e-003	-5.574170e-004
371	-1.068403e-004	-2.876002e-003	-8.096854e-004
372	-1.413562e-004	-3.737467e-003	-8.435868e-004
373	-2.055200e-004	-5.325975e-003	-9.025325e-004
374	-6.509409e-004	-5.844974e-003	-5.149477e-004
375	-6.786515e-004	-5.589804e-003	-5.387755e-004
376	-6.916618e-004	-5.449635e-003	-5.496592e-004
377	-3.364013e-005	-3.933246e-003	-8.167077e-004
378	-6.548526e-005	-4.922592e-003	-8.480976e-004
379	-1.268619e-004	-6.749829e-003	-9.009115e-004
380	-5.729308e-004	-7.420642e-003	-4.758562e-004
381	-5.968336e-004	-7.321692e-003	-4.943704e-004
382	-6.082590e-004	-7.266270e-003	-5.026898e-004
383	6.168873e-005	-4.840147e-003	-7.979742e-004
384	3.531129e-005	-5.941617e-003	-8.250079e-004
385	-1.810079e-005	-7.978787e-003	-8.678267e-004
386	-4.595119e-004	-8.780492e-003	-4.030879e-004
387	-4.783802e-004	-8.811396e-003	-4.158512e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
388	-4.875389e-004	-8.826518e-003	-4.214582e-004
389	1.739947e-004	-5.536423e-003	-7.557154e-004
390	1.560066e-004	-6.725722e-003	-7.765364e-004
391	1.164455e-004	-8.927983e-003	-8.058685e-004
392	-3.133165e-004	-9.829556e-003	-3.022751e-004
393	-3.270842e-004	-9.956909e-003	-3.097930e-004
394	-3.338073e-004	-1.002458e-002	-3.130352e-004
395	2.961135e-004	-5.974769e-003	-6.929519e-004
396	2.888104e-004	-7.219080e-003	-7.057390e-004
397	2.686890e-004	-9.524126e-003	-7.188759e-004
398	-1.411014e-004	-1.048702e-002	-1.829537e-004
399	-1.503340e-004	-1.067634e-002	-1.864193e-004
400	-1.548360e-004	-1.077771e-002	-1.876702e-004
401	4.193200e-004	-6.125577e-003	-6.150007e-004
402	4.229445e-004	-7.387611e-003	-6.197485e-004
403	4.225775e-004	-9.724994e-003	-6.182493e-004
404	4.002298e-005	-1.070843e-002	-5.929502e-005
405	3.807940e-005	-1.092173e-002	-5.753864e-005
406	3.683016e-005	-1.103597e-002	-5.621822e-005
407	5.362496e-004	-5.979126e-003	-5.277531e-004
408	5.513557e-004	-7.222319e-003	-5.252468e-004
409	5.718416e-004	-9.525331e-003	-5.106575e-004
410	2.214543e-004	-1.048869e-002	6.403358e-005
411	2.269825e-004	-1.068085e-002	7.071344e-005
412	2.292925e-004	-1.078375e-002	7.414547e-005
413	6.387244e-004	-5.544992e-003	-4.359340e-004
414	6.652199e-004	-6.732007e-003	-4.263904e-004
415	7.078982e-004	-8.930092e-003	-3.995682e-004
416	3.956406e-004	-9.832579e-003	1.806326e-004
417	4.065756e-004	-9.965628e-003	1.901045e-004
418	4.115381e-004	-1.003639e-002	1.949050e-004
419	7.186304e-004	-4.852653e-003	-3.457536e-004
420	7.539926e-004	-5.950626e-003	-3.306562e-004
421	8.143172e-004	-7.981408e-003	-2.958340e-004
422	5.431640e-004	-8.784468e-003	2.797078e-004
423	5.608453e-004	-8.823838e-003	2.920821e-004
424	5.688972e-004	-8.843553e-003	2.983202e-004
425	7.705639e-004	-3.949276e-003	-2.627800e-004
426	8.120193e-004	-4.933826e-003	-2.441735e-004
427	8.846367e-004	-6.752305e-003	-2.055583e-004
428	6.527553e-004	-7.424878e-003	3.584508e-004
429	6.776294e-004	-7.337071e-003	3.734792e-004
430	6.890340e-004	-7.287695e-003	3.808705e-004
431	7.905846e-004	-2.894991e-003	-1.909976e-004
432	8.354104e-004	-3.750248e-003	-1.708175e-004
433	9.148668e-004	-5.327415e-003	-1.318308e-004
434	7.182127e-004	-5.848491e-003	4.164478e-004
435	7.494389e-004	-5.607008e-003	4.331501e-004
436	7.638173e-004	-5.474263e-003	4.411158e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
437	7.755237e-004	-1.759357e-003	-1.331025e-004
438	8.218437e-004	-2.478201e-003	-1.135794e-004
439	9.024248e-004	-3.803269e-003	-7.730152e-005
440	7.354293e-004	-4.162545e-003	4.544203e-004
441	7.714953e-004	-3.748910e-003	4.716955e-004
442	7.879439e-004	-3.523406e-003	4.790109e-004
443	7.222892e-004	-6.190058e-004	-8.935276e-005
444	7.706887e-004	-1.199822e-003	-7.322038e-005
445	8.482445e-004	-2.277654e-003	-4.225391e-005
446	7.046888e-004	-2.475477e-003	4.743982e-004
447	7.425399e-004	-1.883176e-003	4.900292e-004
448	7.587685e-004	-1.564317e-003	4.934659e-004
449	6.698340e-004	8.534738e-005	-7.028117e-005
450	7.174706e-004	-4.108469e-004	-5.509113e-005
451	7.920715e-004	-1.341735e-003	-3.266174e-005
452	6.593237e-004	-1.437964e-003	4.792748e-004
453	6.973561e-004	-7.360663e-004	4.892175e-004
454	7.115680e-004	-3.649343e-004	4.888255e-004
455	6.107876e-004	7.426889e-004	-5.908647e-005
456	6.458608e-004	3.242308e-004	-3.657801e-005
457	6.844443e-004	-5.824700e-005	-3.897895e-005
458	7.210630e-004	-4.710394e-004	-3.861526e-005
459	5.918272e-004	-4.727229e-004	4.846383e-004
460	6.129151e-004	-5.678075e-005	4.780793e-004
461	6.331221e-004	3.310536e-004	4.727368e-004
462	6.472130e-004	7.504868e-004	4.816412e-004
463	5.072360e-004	1.629780e-003	-4.887811e-005
464	5.348253e-004	1.303554e-003	-4.155938e-005
465	5.917908e-004	6.931741e-004	-2.579630e-005
466	4.832235e-004	8.134075e-004	4.614637e-004
467	5.110934e-004	1.754300e-003	4.686067e-004
468	5.292768e-004	2.258279e-003	4.692800e-004
469	4.010611e-004	2.355423e-003	-4.749713e-005
470	4.244567e-004	2.104747e-003	-3.947403e-005
471	4.695023e-004	1.645355e-003	-2.563714e-005
472	3.736002e-004	1.864670e-003	4.477371e-004
473	3.949616e-004	2.916150e-003	4.548314e-004
474	4.064698e-004	3.485983e-003	4.563560e-004
475	2.990435e-004	2.917052e-003	-4.685589e-005
476	3.172927e-004	2.728014e-003	-3.938811e-005
477	3.511583e-004	2.385781e-003	-2.933691e-005
478	2.658947e-004	2.681715e-003	4.349303e-004
479	2.816206e-004	3.818243e-003	4.402354e-004
480	2.893512e-004	4.435256e-003	4.414417e-004
481	2.010186e-004	3.318079e-003	-4.850226e-005
482	2.133905e-004	3.174162e-003	-4.253924e-005
483	2.361858e-004	2.915757e-003	-3.582777e-005
484	1.604396e-004	3.266158e-003	4.221363e-004
485	1.707072e-004	4.462881e-003	4.258260e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
486	1.757172e-004	5.112590e-003	4.263650e-004
487	1.062181e-004	3.561017e-003	-5.365560e-005
488	1.125135e-004	3.444774e-003	-4.913265e-005
489	1.242939e-004	3.237410e-003	-4.502627e-005
490	5.728421e-005	3.620499e-003	4.092541e-004
491	6.219481e-005	4.853126e-003	4.117022e-004
492	6.466787e-005	5.522281e-003	4.116868e-004
493	1.417179e-005	3.648192e-003	-6.268588e-005
494	1.438726e-005	3.542197e-003	-5.923547e-005
495	1.522628e-005	3.353650e-003	-5.697505e-005
496	-4.355643e-005	3.748055e-003	3.962609e-004
497	-4.388444e-005	4.992870e-003	3.978520e-004
498	-4.388499e-005	5.668631e-003	3.974615e-004
499	-7.545589e-005	3.582416e-003	-7.568359e-005
500	-8.126916e-005	3.469517e-003	-7.289225e-005
501	-9.127000e-005	3.268145e-003	-7.172946e-005
502	-1.420694e-004	3.652930e-003	3.831458e-004
503	-1.474804e-004	4.886850e-003	3.842540e-004
504	-1.498807e-004	5.556727e-003	3.836655e-004
505	-1.629869e-004	3.367156e-003	-9.266476e-005
506	-1.747390e-004	3.230539e-003	-9.013844e-005
507	-1.954495e-004	2.985302e-003	-8.934223e-005
508	-2.382358e-004	3.339990e-003	3.699077e-004
509	-2.485337e-004	4.540654e-003	3.708904e-004
510	-2.532404e-004	5.192545e-003	3.702734e-004
511	-2.488356e-004	3.006454e-003	-1.135289e-004
512	-2.663076e-004	2.829757e-003	-1.109972e-004
513	-2.975707e-004	2.510240e-003	-1.098659e-004
514	-3.320240e-004	2.814861e-003	3.565556e-004
515	-3.469794e-004	3.960706e-003	3.577440e-004
516	-3.539156e-004	4.582923e-003	3.572283e-004
517	-3.337419e-004	2.504531e-003	-1.377389e-004
518	-3.562611e-004	2.272337e-003	-1.354430e-004
519	-3.978987e-004	1.848762e-003	-1.333882e-004
520	-4.233782e-004	2.083928e-003	3.431220e-004
521	-4.427547e-004	3.154244e-003	3.447623e-004
522	-4.521526e-004	3.735214e-003	3.441670e-004
523	-4.187320e-004	1.864909e-003	-1.639019e-004
524	-4.448814e-004	1.564085e-003	-1.631173e-004
525	-4.967129e-004	1.007327e-003	-1.602976e-004
526	-5.121894e-004	1.154374e-003	3.298502e-004
527	-5.358292e-004	2.129259e-003	3.316135e-004
528	-5.492158e-004	2.655794e-003	3.295068e-004
529	-5.011788e-004	1.092035e-003	-1.926533e-004
530	-5.323438e-004	7.113612e-004	-1.911060e-004
531	-5.944064e-004	-6.920525e-006	-1.933163e-004
532	-5.981297e-004	3.425470e-005	3.191004e-004
533	-6.263939e-004	8.943864e-004	3.157529e-004
534	-6.435114e-004	1.349971e-003	3.120134e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
535	-5.300820e-004	7.464850e-004	-2.077576e-004
536	-5.664048e-004	3.302813e-004	-1.962313e-004
537	-6.006977e-004	-5.007223e-005	-2.060794e-004
538	-6.339017e-004	-4.583823e-004	-2.137675e-004
539	-6.310593e-004	-4.659194e-004	3.216845e-004
540	-6.470290e-004	-4.811237e-005	3.119144e-004
541	-6.625691e-004	3.440831e-004	3.027782e-004
542	-6.765283e-004	7.708682e-004	3.089225e-004
543	-5.904584e-004	-1.646862e-004	-2.479489e-004
544	-6.352560e-004	-6.933045e-004	-2.447276e-004
545	-7.081109e-004	-1.677225e-003	-2.377055e-004
546	-6.923714e-004	-1.811757e-003	2.950790e-004
547	-7.242649e-004	-1.139328e-003	2.979216e-004
548	-7.359411e-004	-7.791459e-004	2.964144e-004
549	-6.221961e-004	-1.130281e-003	-2.960703e-004
550	-6.663641e-004	-1.777249e-003	-2.903765e-004
551	-7.425584e-004	-2.971413e-003	-2.776938e-004
552	-7.076877e-004	-3.240304e-003	2.733145e-004
553	-7.375501e-004	-2.710431e-003	2.793178e-004
554	-7.506272e-004	-2.422486e-003	2.812456e-004
555	-6.186296e-004	-2.086387e-003	-3.477425e-004
556	-6.610116e-004	-2.849370e-003	-3.410530e-004
557	-7.363508e-004	-4.256925e-003	-3.257315e-004
558	-6.771481e-004	-4.658529e-003	2.477650e-004
559	-7.021419e-004	-4.263674e-003	2.542770e-004
560	-7.136828e-004	-4.047931e-003	2.574725e-004
561	-5.815871e-004	-2.967286e-003	-4.028101e-004
562	-6.200857e-004	-3.838712e-003	-3.968401e-004
563	-6.885823e-004	-5.448642e-003	-3.805681e-004
564	-5.999797e-004	-5.972147e-003	2.159003e-004
565	-6.189757e-004	-5.694916e-003	2.222084e-004
566	-6.278199e-004	-5.542982e-003	2.255049e-004
567	-5.147892e-004	-3.713359e-003	-4.596445e-004
568	-5.467059e-004	-4.678131e-003	-4.555293e-004
569	-6.028373e-004	-6.462986e-003	-4.400702e-004
570	-4.803913e-004	-7.088178e-003	1.760583e-004
571	-4.926753e-004	-6.905118e-003	1.815189e-004
572	-4.984246e-004	-6.804429e-003	1.844578e-004
573	-4.229558e-004	-4.273964e-003	-5.157469e-004
574	-4.454468e-004	-5.309845e-003	-5.146376e-004
575	-4.835594e-004	-7.228606e-003	-5.024698e-004
576	-3.241205e-004	-7.926442e-003	1.271526e-004
577	-3.304478e-004	-7.808477e-003	1.315936e-004
578	-3.334643e-004	-7.743398e-003	1.339076e-004
579	-3.123824e-004	-4.610394e-003	-5.674731e-004
580	-3.229678e-004	-5.687799e-003	-5.699593e-004
581	-3.382121e-004	-7.684027e-003	-5.636589e-004
582	-1.422703e-004	-8.418763e-003	6.898436e-005
583	-1.442969e-004	-8.337432e-003	7.233711e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
584	-1.451815e-004	-8.292388e-003	7.407377e-005
585	-1.918919e-004	-4.699932e-003	-6.113989e-004
586	-1.907290e-004	-5.785945e-003	-6.174962e-004
587	-1.847403e-004	-7.797275e-003	-6.178719e-004
588	4.453508e-005	-8.531489e-003	6.820043e-006
589	4.902400e-005	-8.455965e-003	7.798357e-006
590	5.117037e-005	-8.414054e-003	8.565044e-006
591	-6.985954e-005	-4.537559e-003	-6.454839e-004
592	-5.752028e-005	-5.600674e-003	-6.558673e-004
593	-3.142621e-005	-7.569638e-003	-6.642587e-004
594	2.281984e-004	-8.266356e-003	-5.557761e-005
595	2.387272e-004	-8.160430e-003	-5.704789e-005
596	2.435380e-004	-8.102318e-003	-5.764837e-005
597	4.587317e-005	-4.135111e-003	-6.665306e-004
598	6.903482e-005	-5.143811e-003	-6.811281e-004
599	1.152172e-004	-7.010720e-003	-6.988208e-004
600	4.004431e-004	-7.633311e-003	-1.165537e-004
601	4.133761e-004	-7.468819e-003	-1.195795e-004
602	4.193752e-004	-7.379078e-003	-1.210745e-004
603	1.463073e-004	-3.521767e-003	-6.720621e-004
604	1.775749e-004	-4.448986e-003	-6.894938e-004
605	2.377279e-004	-6.161938e-003	-7.149788e-004
606	5.414407e-004	-6.676653e-003	-1.676783e-004
607	5.569013e-004	-6.431282e-003	-1.727482e-004
608	5.640669e-004	-6.297674e-003	-1.751834e-004
609	2.242573e-004	-2.742166e-003	-6.614684e-004
610	2.602405e-004	-3.569499e-003	-6.804888e-004
611	3.275669e-004	-5.094480e-003	-7.115565e-004
612	6.416773e-004	-5.476751e-003	-2.018600e-004
613	6.591841e-004	-5.130611e-003	-2.088984e-004
614	6.671686e-004	-4.942484e-003	-2.123866e-004
615	2.745567e-004	-1.852107e-003	-6.342738e-004
616	3.120949e-004	-2.569526e-003	-6.536548e-004
617	3.805880e-004	-3.888186e-003	-6.876250e-004
618	6.965332e-004	-4.126654e-003	-2.147392e-004
619	7.141032e-004	-3.668887e-003	-2.229678e-004
620	7.216744e-004	-3.420594e-003	-2.272554e-004
621	2.931118e-004	-9.156716e-004	-5.895586e-004
622	3.294627e-004	-1.521554e-003	-6.093449e-004
623	3.931400e-004	-2.633735e-003	-6.430889e-004
624	7.025389e-004	-2.733652e-003	-2.021753e-004
625	7.178635e-004	-2.162901e-003	-2.106275e-004
626	7.218323e-004	-1.855777e-003	-2.156792e-004
627	2.799027e-004	-1.734060e-005	-5.280176e-004
628	3.130016e-004	-5.370386e-004	-5.504290e-004
629	3.683873e-004	-1.504369e-003	-5.846124e-004
630	6.666410e-004	-1.517547e-003	-1.667095e-004
631	6.768006e-004	-8.932733e-004	-1.774844e-004
632	6.733916e-004	-5.666874e-004	-1.836836e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
633	2.384256e-004	7.873596e-004	-4.578941e-004
634	2.685160e-004	3.462715e-004	-4.674874e-004
635	2.863537e-004	-5.906283e-005	-4.935071e-004
636	3.048211e-004	-4.920393e-004	-5.179863e-004
637	5.974253e-004	-4.329740e-004	-9.758529e-005
638	5.922266e-004	-7.982074e-005	-1.150559e-004
639	5.871872e-004	2.343200e-004	-1.321856e-004
640	5.936981e-004	5.715965e-004	-1.305043e-004
641	1.796355e-004	1.467437e-003	-3.853549e-004
642	1.964778e-004	1.079067e-003	-3.987459e-004
643	2.377768e-004	3.532653e-004	-4.259731e-004
644	4.951925e-004	4.585359e-004	-4.673198e-005
645	4.966330e-004	1.155564e-003	-5.254638e-005
646	5.001110e-004	1.521340e-003	-6.341888e-005
647	1.151351e-004	1.996205e-003	-3.170812e-004
648	1.324069e-004	1.652838e-003	-3.277123e-004
649	1.684347e-004	1.021704e-003	-3.485752e-004
650	4.076783e-004	1.152598e-003	8.467291e-006
651	4.078133e-004	1.866728e-003	8.386737e-006
652	4.082970e-004	2.250791e-003	4.609528e-006
653	5.627541e-005	2.379426e-003	-2.533154e-004
654	7.226925e-005	2.076551e-003	-2.617370e-004
655	1.021284e-004	1.523227e-003	-2.788078e-004
656	3.284544e-004	1.666689e-003	5.890582e-005
657	3.261740e-004	2.387435e-003	6.119022e-005
658	3.248231e-004	2.777667e-003	6.103113e-005
659	2.524316e-006	2.629253e-003	-1.951227e-004
660	1.596752e-005	2.360204e-003	-2.018733e-004
661	4.015040e-005	1.869320e-003	-2.157620e-004
662	2.563778e-004	2.017263e-003	1.038735e-004
663	2.520790e-004	2.735965e-003	1.077622e-004
664	2.496339e-004	3.125665e-003	1.090014e-004
665	-4.687299e-005	2.757142e-003	-1.429284e-004
666	-3.608287e-005	2.514791e-003	-1.482515e-004
667	-1.689854e-005	2.072587e-003	-1.592904e-004
668	1.910914e-004	2.219940e-003	1.436633e-004
669	1.853005e-004	2.929559e-003	1.487607e-004
670	1.821394e-004	3.314540e-003	1.507569e-004
671	-9.187033e-005	2.774399e-003	-9.680128e-005
672	-8.346638e-005	2.552148e-003	-1.008514e-004
673	-6.862378e-005	2.146442e-003	-1.093215e-004
674	1.324112e-004	2.289706e-003	1.786075e-004
675	1.256031e-004	2.984652e-003	1.845921e-004
676	1.219778e-004	3.361825e-003	1.871234e-004
677	-1.321765e-004	2.692778e-003	-5.670628e-005
678	-1.258431e-004	2.484789e-003	-5.962253e-005
679	-1.147438e-004	2.104881e-003	-6.578716e-005
680	8.022302e-005	2.241096e-003	2.089656e-004
681	7.281013e-005	2.917065e-003	2.155526e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
682	6.892879e-005	3.284075e-003	2.184676e-004
683	-1.675120e-004	2.524544e-003	-2.257449e-005
684	-1.629515e-004	2.325748e-003	-2.450050e-005
685	-1.550511e-004	1.962332e-003	-2.862146e-005
686	3.445216e-005	2.088315e-003	2.349312e-004
687	2.680537e-005	2.742170e-003	2.418601e-004
688	2.285786e-005	3.097309e-003	2.450211e-004
689	-1.976634e-004	2.282356e-003	5.695130e-006
690	-1.945966e-004	2.088436e-003	4.600136e-006
691	-1.893830e-004	1.733543e-003	2.241528e-006
692	-4.945986e-006	1.845330e-003	2.566545e-004
693	-1.246757e-005	2.475034e-003	2.636740e-004
694	-1.629478e-005	2.817206e-003	2.669475e-004
695	-2.224811e-004	1.979115e-003	2.823930e-005
696	-2.206365e-004	1.786504e-003	2.780395e-005
697	-2.176001e-004	1.433516e-003	2.688170e-005
698	-3.798020e-005	1.525928e-003	2.742600e-004
699	-4.499957e-005	2.130546e-003	2.811130e-004
700	-4.850316e-005	2.459277e-003	2.843615e-004
701	-2.418650e-004	1.627838e-003	4.517933e-005
702	-2.409752e-004	1.433698e-003	4.529350e-005
703	-2.395754e-004	1.077428e-003	4.542268e-005
704	-6.460485e-005	1.143794e-003	2.878397e-004
705	-7.070860e-005	1.723539e-003	2.942687e-004
706	-7.359053e-005	2.039055e-003	2.973503e-004
707	-2.557579e-004	1.241709e-003	5.642304e-005
708	-2.555848e-004	1.043705e-003	5.729501e-005
709	-2.551872e-004	6.805211e-004	5.809880e-005
710	-8.470999e-005	7.126480e-004	2.973699e-004
711	-8.943364e-005	1.268892e-003	3.032345e-004
712	-9.099453e-005	1.572458e-003	3.060379e-004
713	-2.642158e-004	8.343648e-004	6.155557e-005
714	-2.646950e-004	6.299892e-004	6.384363e-005
715	-2.642073e-004	2.578826e-004	6.551699e-005
716	-9.827421e-005	2.465598e-004	3.023144e-004
717	-1.008262e-004	7.815747e-004	3.083242e-004
718	-9.965012e-005	1.076405e-003	3.107738e-004
719	-2.676118e-004	4.192453e-004	6.193257e-005
720	-2.701079e-004	2.056920e-004	6.315266e-005
721	-2.676561e-004	1.004886e-005	6.667460e-005
722	-2.651251e-004	-1.759882e-004	7.028391e-005
723	-1.067325e-004	-2.393557e-004	2.996163e-004
724	-1.048330e-004	1.223072e-005	3.058172e-004
725	-1.029005e-004	2.764995e-004	3.120204e-004
726	-1.014622e-004	5.674287e-004	3.124079e-004

Prueba de carga 3

Desplazamientos de nudos

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
1	1.224047e-004	4.010096e-004	8.674370e-005
2	1.217253e-004	1.945116e-004	8.717211e-005
3	1.188571e-004	6.066208e-006	8.605719e-005
4	1.159012e-004	-1.762770e-004	8.494227e-005
5	-1.040647e-004	-1.582174e-004	7.501562e-005
6	-1.064762e-004	5.326406e-006	7.549382e-005
7	-1.088377e-004	1.739623e-004	7.597201e-005
8	-1.091491e-004	3.583067e-004	7.526355e-005
9	1.222821e-004	5.689586e-004	8.513331e-005
10	1.210312e-004	3.630837e-004	8.479772e-005
11	1.195220e-004	-1.257452e-005	8.214686e-005
12	-1.064935e-004	-1.368705e-005	7.241383e-005
13	-1.076841e-004	3.207007e-004	7.372104e-005
14	-1.087255e-004	5.037881e-004	7.368348e-005
15	1.232885e-004	7.303290e-004	7.899597e-005
16	1.227613e-004	5.223475e-004	7.752730e-005
17	1.218900e-004	1.403564e-004	7.403368e-005
18	-1.077840e-004	1.206237e-004	6.455637e-005
19	-1.087044e-004	4.586490e-004	6.688969e-005
20	-1.093556e-004	6.429898e-004	6.801816e-005
21	1.254510e-004	8.743503e-004	6.708671e-005
22	1.252226e-004	6.624972e-004	6.510912e-005
23	1.245558e-004	2.725485e-004	6.094863e-005
24	-1.097689e-004	2.343735e-004	5.140808e-005
25	-1.108172e-004	5.788176e-004	5.540930e-005
26	-1.114968e-004	7.667620e-004	5.756695e-005
27	1.280584e-004	9.896425e-004	4.940697e-005
28	1.280079e-004	7.732502e-004	4.730239e-005
29	1.275036e-004	3.743856e-004	4.290974e-005
30	-1.130345e-004	3.172879e-004	3.307223e-005
31	-1.142775e-004	6.722576e-004	3.939273e-005
32	-1.151370e-004	8.662314e-004	4.276876e-005
33	1.306347e-004	1.064631e-003	2.569030e-005
34	1.307605e-004	8.437571e-004	2.376356e-005
35	1.304299e-004	4.360603e-004	1.970121e-005
36	-1.180393e-004	3.594370e-004	9.805745e-006
37	-1.195115e-004	7.304239e-004	1.914008e-005
38	-1.205854e-004	9.334552e-004	2.406360e-005
39	1.327641e-004	1.086962e-003	-4.583017e-006
40	1.330828e-004	8.623441e-004	-6.009656e-006
41	1.329427e-004	4.471366e-004	-9.114194e-006
42	-1.252605e-004	3.515700e-004	-1.794131e-005
43	-1.269879e-004	7.455435e-004	-4.859775e-006
44	-1.282733e-004	9.614227e-004	1.962531e-006
45	1.339082e-004	1.042997e-003	-4.222500e-005
46	1.345538e-004	8.161826e-004	-4.269805e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
47	1.346275e-004	3.960876e-004	-4.422674e-005
48	-1.351971e-004	2.855452e-004	-4.947014e-005
49	-1.371716e-004	7.109793e-004	-3.193440e-005
50	-1.385748e-004	9.442004e-004	-2.295176e-005
51	1.329244e-004	9.168780e-004	-8.871006e-005
52	1.347014e-004	6.909520e-004	-8.715012e-005
53	1.351998e-004	2.697566e-004	-8.661956e-005
54	-1.483416e-004	1.548806e-004	-8.377303e-005
55	-1.504108e-004	6.215578e-004	-6.125850e-005
56	-1.515077e-004	8.768482e-004	-5.023603e-005
57	1.278034e-004	6.890242e-004	-1.457770e-004
58	1.323136e-004	4.705572e-004	-1.403422e-004
59	1.353803e-004	5.276603e-005	-1.375675e-004
60	-1.653394e-004	-4.458629e-005	-1.194925e-004
61	-1.664965e-004	4.737847e-004	-9.193887e-005
62	-1.664853e-004	7.549036e-004	-7.955907e-005
63	1.235829e-004	3.429486e-004	-2.051204e-004
64	1.187971e-004	1.369224e-004	-2.033534e-004
65	1.314201e-004	-5.384089e-005	-2.009232e-004
66	1.437493e-004	-2.729555e-004	-1.984930e-004
67	-1.892620e-004	-3.140049e-004	-1.549466e-004
68	-1.859518e-004	-1.962650e-005	-1.390719e-004
69	-1.819373e-004	2.657985e-004	-1.231972e-004
70	-1.850867e-004	5.767068e-004	-1.070186e-004
71	1.219005e-004	6.657308e-005	-2.369049e-004
72	1.265672e-004	-1.415382e-004	-2.395005e-004
73	1.314396e-004	-5.445077e-004	-2.336960e-004
74	-1.992932e-004	-5.205151e-004	-1.733725e-004
75	-1.988866e-004	1.012954e-004	-1.396079e-004
76	-1.978886e-004	4.360096e-004	-1.206109e-004
77	1.234009e-004	-2.451887e-004	-2.599726e-004
78	1.265510e-004	-4.557026e-004	-2.605159e-004
79	1.264052e-004	-8.510245e-004	-2.544509e-004
80	-2.128582e-004	-7.449904e-004	-1.836045e-004
81	-2.136064e-004	-7.920524e-005	-1.488380e-004
82	-2.123723e-004	2.803920e-004	-1.303540e-004
83	1.234904e-004	-7.435205e-004	-2.662113e-004
84	1.235453e-004	-9.524240e-004	-2.643682e-004
85	1.214174e-004	-1.335735e-003	-2.581518e-004
86	-2.349205e-004	-1.092893e-003	-1.831043e-004
87	-2.351670e-004	-3.591005e-004	-1.494935e-004
88	-2.341431e-004	3.738167e-005	-1.327533e-004
89	1.212377e-004	-1.223083e-003	-2.404289e-004
90	1.201538e-004	-1.427382e-003	-2.381646e-004
91	1.169173e-004	-1.798803e-003	-2.326640e-004
92	-2.554088e-004	-1.422506e-003	-1.645721e-004
93	-2.548317e-004	-6.261994e-004	-1.352696e-004
94	-2.531684e-004	-1.971222e-004	-1.209932e-004
95	1.187394e-004	-1.628593e-003	-1.881364e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
96	1.172421e-004	-1.828435e-003	-1.859307e-004
97	1.131659e-004	-2.189998e-003	-1.809486e-004
98	-2.721398e-004	-1.701802e-003	-1.299212e-004
99	-2.708336e-004	-8.544915e-004	-1.081093e-004
100	-2.683427e-004	-3.992062e-004	-9.752839e-005
101	1.160264e-004	-1.916843e-003	-1.165598e-004
102	1.141947e-004	-2.111868e-003	-1.142255e-004
103	1.095969e-004	-2.463271e-003	-1.090874e-004
104	-2.830971e-004	-1.903149e-003	-8.265250e-005
105	-2.813238e-004	-1.022454e-003	-7.087904e-005
106	-2.783549e-004	-5.499100e-004	-6.507471e-005
107	1.136829e-004	-2.060193e-003	-3.490041e-005
108	1.116432e-004	-2.251056e-003	-3.360242e-005
109	1.068727e-004	-2.594084e-003	-3.103697e-005
110	-2.872607e-004	-2.007998e-003	-2.835736e-005
111	-2.853263e-004	-1.114635e-003	-2.719365e-005
112	-2.822736e-004	-6.353960e-004	-2.661521e-005
113	1.128381e-004	-2.046457e-003	4.977501e-005
114	1.109765e-004	-2.236072e-003	5.001101e-005
115	1.063491e-004	-2.577392e-003	4.995097e-005
116	-2.845797e-004	-2.007678e-003	2.874664e-005
117	-2.827643e-004	-1.122433e-003	1.924195e-005
118	-2.797589e-004	-6.474906e-004	1.456565e-005
119	1.124335e-004	-1.876499e-003	1.304212e-004
120	1.108712e-004	-2.065632e-003	1.307016e-004
121	1.067379e-004	-2.407236e-003	1.306418e-004
122	-2.750305e-004	-1.900351e-003	8.442199e-005
123	-2.736438e-004	-1.044166e-003	6.470999e-005
124	-2.710858e-004	-5.842007e-004	5.517751e-005
125	1.120248e-004	-1.566520e-003	1.979528e-004
126	1.107615e-004	-1.755098e-003	1.979593e-004
127	1.074377e-004	-2.097086e-003	1.971309e-004
128	-2.595653e-004	-1.694131e-003	1.330180e-004
129	-2.588818e-004	-8.850500e-004	1.055595e-004
130	-2.571630e-004	-4.491973e-004	9.224758e-005
131	1.120456e-004	-1.147802e-003	2.455531e-004
132	1.113537e-004	-1.336814e-003	2.452974e-004
133	1.090430e-004	-1.681797e-003	2.434145e-004
134	-2.401371e-004	-1.406362e-003	1.709367e-004
135	-2.403032e-004	-6.564533e-004	1.388717e-004
136	-2.394774e-004	-2.511213e-004	1.232223e-004
137	1.114666e-004	-6.624965e-004	2.683223e-004
138	1.121189e-004	-8.513821e-004	2.687988e-004
139	1.110960e-004	-1.200256e-003	2.666070e-004
140	-2.187705e-004	-1.059003e-003	1.961375e-004
141	-2.197749e-004	-3.743339e-004	1.626461e-004
142	-2.197699e-004	-2.889608e-006	1.460983e-004
143	1.090058e-004	-1.611069e-004	2.628793e-004
144	1.121600e-004	-3.469674e-004	2.654304e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
145	1.141667e-004	-7.003429e-004	2.632197e-004
146	-1.977185e-004	-6.773260e-004	2.076826e-004
147	-1.991459e-004	-5.756505e-005	1.757694e-004
148	-1.996531e-004	2.794385e-004	1.595568e-004
149	1.083810e-004	3.062845e-004	2.352958e-004
150	1.044341e-004	1.254472e-004	2.345341e-004
151	1.144222e-004	-4.175510e-005	2.339231e-004
152	1.242465e-004	-2.314648e-004	2.333121e-004
153	-1.796199e-004	-2.863660e-004	2.063980e-004
154	-1.795870e-004	-5.640181e-006	1.921781e-004
155	-1.790302e-004	2.736729e-004	1.779582e-004
156	-1.812152e-004	5.784162e-004	1.638274e-004
157	1.087386e-004	5.854938e-004	2.102464e-004
158	1.122461e-004	4.001691e-004	2.059922e-004
159	1.166385e-004	4.227003e-005	2.055818e-004
160	-1.673338e-004	-3.202478e-005	1.999255e-004
161	-1.693533e-004	4.936313e-004	1.746227e-004
162	-1.710129e-004	7.813616e-004	1.626343e-004
163	1.107886e-004	7.611960e-004	1.912643e-004
164	1.126956e-004	5.923549e-004	1.854323e-004
165	1.138333e-004	2.707985e-004	1.815218e-004
166	-1.563704e-004	2.235908e-004	1.898954e-004
167	-1.590208e-004	7.492503e-004	1.676845e-004
168	-1.602450e-004	1.035809e-003	1.584832e-004
169	1.132223e-004	1.019240e-003	1.611400e-004
170	1.145579e-004	8.620243e-004	1.563330e-004
171	1.142888e-004	5.670497e-004	1.502511e-004
172	-1.430583e-004	5.205995e-004	1.721540e-004
173	-1.471386e-004	1.033384e-003	1.520803e-004
174	-1.486471e-004	1.312456e-003	1.426244e-004
175	1.135507e-004	1.294059e-003	1.279786e-004
176	1.140166e-004	1.130056e-003	1.252317e-004
177	1.136693e-004	8.254614e-004	1.207830e-004
178	-1.345813e-004	7.713461e-004	1.515647e-004
179	-1.385223e-004	1.250547e-003	1.355451e-004
180	-1.406366e-004	1.512531e-003	1.275746e-004
181	1.123534e-004	1.514272e-003	9.822152e-005
182	1.126206e-004	1.346257e-003	9.658035e-005
183	1.123192e-004	1.035037e-003	9.375213e-005
184	-1.290933e-004	9.856908e-004	1.286284e-004
185	-1.324284e-004	1.438744e-003	1.166092e-004
186	-1.345222e-004	1.686710e-003	1.104308e-004
187	1.103378e-004	1.684505e-003	7.065181e-005
188	1.105622e-004	1.514157e-003	6.974679e-005
189	1.102816e-004	1.199044e-003	6.828529e-005
190	-1.261344e-004	1.159734e-003	1.041732e-004
191	-1.288309e-004	1.593774e-003	9.586009e-005
192	-1.306384e-004	1.831264e-003	9.152177e-005
193	1.077679e-004	1.807744e-003	4.450449e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
194	1.079529e-004	1.636263e-003	4.414409e-005
195	1.076690e-004	1.319425e-003	4.370693e-005
196	-1.253771e-004	1.290915e-003	7.881946e-005
197	-1.274981e-004	1.712450e-003	7.384240e-005
198	-1.289766e-004	1.942942e-003	7.122428e-005
199	1.047726e-004	1.885878e-003	1.921016e-005
200	1.049169e-004	1.714143e-003	1.924261e-005
201	1.046244e-004	1.397132e-003	1.951109e-005
202	-1.265368e-004	1.377655e-003	5.301502e-005
203	-1.281673e-004	1.792526e-003	5.104160e-005
204	-1.293492e-004	2.019231e-003	4.999472e-005
205	1.014413e-004	1.919900e-003	-5.725997e-006
206	1.015567e-004	1.748532e-003	-5.420433e-006
207	1.012668e-004	1.432391e-003	-4.685062e-006
208	-1.293931e-004	1.419097e-003	2.709421e-005
209	-1.306141e-004	1.832605e-003	2.788536e-005
210	-1.315460e-004	2.058460e-003	2.828988e-005
211	9.783172e-005	1.909997e-003	-3.074513e-005
212	9.793347e-005	1.739429e-003	-3.024882e-005
213	9.766650e-005	1.424860e-003	-2.919342e-005
214	-1.337991e-004	1.414940e-003	1.334996e-006
215	-1.346747e-004	1.832032e-003	4.756021e-006
216	-1.353903e-004	2.059772e-003	6.527682e-006
217	9.397601e-005	1.855645e-003	-5.623442e-005
218	9.406824e-005	1.686182e-003	-5.560168e-005
219	9.384152e-005	1.373690e-003	-5.430830e-005
220	-1.396742e-004	1.365373e-003	-2.398806e-005
221	-1.402395e-004	1.790817e-003	-1.799602e-005
222	-1.407294e-004	2.023027e-003	-1.493797e-005
223	8.990961e-005	1.755698e-003	-8.252214e-005
224	8.993190e-005	1.587549e-003	-8.180278e-005
225	8.974253e-005	1.277507e-003	-8.035227e-005
226	-1.470262e-004	1.271101e-003	-4.855322e-005
227	-1.472354e-004	1.709579e-003	-4.004409e-005
228	-1.473895e-004	1.948660e-003	-3.582438e-005
229	8.591175e-005	1.619759e-003	-1.083212e-004
230	8.564361e-005	1.450073e-003	-1.079657e-004
231	8.534540e-005	1.137307e-003	-1.073062e-004
232	-1.560931e-004	1.130123e-003	-7.224174e-005
233	-1.558640e-004	1.581879e-003	-6.198720e-005
234	-1.557085e-004	1.828146e-003	-5.707287e-005
235	8.182397e-005	1.453089e-003	-1.343744e-004
236	8.141270e-005	1.277971e-003	-1.347581e-004
237	8.091556e-005	9.551090e-004	-1.356356e-004
238	-1.665106e-004	9.380232e-004	-9.453334e-005
239	-1.658451e-004	1.401221e-003	-8.283070e-005
240	-1.655037e-004	1.653856e-003	-7.726171e-005
241	7.717353e-005	1.248647e-003	-1.623372e-004
242	7.695448e-005	1.065658e-003	-1.633500e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
243	7.620679e-005	7.275048e-004	-1.659005e-004
244	-1.782320e-004	6.974341e-004	-1.147437e-004
245	-1.769848e-004	1.172640e-003	-1.013881e-004
246	-1.763446e-004	1.431843e-003	-9.513844e-005
247	7.111947e-005	1.002840e-003	-1.929355e-004
248	7.202741e-005	8.101420e-004	-1.941268e-004
249	7.116065e-005	4.510409e-004	-1.986151e-004
250	-1.912472e-004	4.114656e-004	-1.322383e-004
251	-1.891460e-004	8.998719e-004	-1.170848e-004
252	-1.879009e-004	1.165834e-003	-1.104401e-004
253	6.315031e-005	7.109399e-004	-2.261649e-004
254	6.564262e-005	5.078938e-004	-2.272582e-004
255	6.654935e-005	1.214037e-004	-2.346579e-004
256	-2.056222e-004	8.434152e-005	-1.461555e-004
257	-2.017880e-004	5.875448e-004	-1.295106e-004
258	-1.995145e-004	8.596885e-004	-1.231696e-004
259	5.928210e-005	3.719171e-004	-2.574007e-004
260	5.149442e-005	1.548135e-004	-2.613527e-004
261	6.073933e-005	-4.379281e-005	-2.692219e-004
262	6.869781e-005	-2.666580e-004	-2.765666e-004
263	-2.230708e-004	-2.783207e-004	-1.549951e-004
264	-2.177232e-004	-1.510633e-005	-1.468822e-004
265	-2.121575e-004	2.409750e-004	-1.390769e-004
266	-2.114929e-004	5.191313e-004	-1.303106e-004
267	5.853065e-005	1.048993e-004	-2.742200e-004
268	5.746974e-005	-1.323423e-004	-2.856383e-004
269	5.742671e-005	-5.836158e-004	-2.979097e-004
270	-2.295184e-004	-5.573924e-004	-1.571464e-004
271	-2.232787e-004	-2.662377e-005	-1.392612e-004
272	-2.190837e-004	2.588178e-004	-1.299175e-004
273	6.290941e-005	-1.738839e-004	-2.857386e-004
274	6.158388e-005	-4.337364e-004	-2.966284e-004
275	5.653668e-005	-9.179862e-004	-3.088509e-004
276	-2.357320e-004	-8.409095e-004	-1.504735e-004
277	-2.298175e-004	-2.983882e-004	-1.323094e-004
278	-2.258032e-004	-5.601280e-006	-1.237227e-004
279	7.515858e-005	-5.658962e-004	-2.842344e-004
280	7.242214e-005	-8.558471e-004	-2.925080e-004
281	6.544214e-005	-1.388613e-003	-3.037857e-004
282	-2.400871e-004	-1.228975e-003	-1.270326e-004
283	-2.337019e-004	-6.688999e-004	-1.101871e-004
284	-2.301151e-004	-3.666257e-004	-1.027978e-004
285	9.324610e-005	-9.232618e-004	-2.620988e-004
286	9.028947e-005	-1.238644e-003	-2.684428e-004
287	8.260577e-005	-1.815522e-003	-2.777249e-004
288	-2.370367e-004	-1.574969e-003	-8.949764e-005
289	-2.305830e-004	-9.989788e-004	-7.543163e-005
290	-2.270295e-004	-6.889265e-004	-6.951913e-005
291	1.171148e-004	-1.213462e-003	-2.232291e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
292	1.148940e-004	-1.548963e-003	-2.274086e-004
293	1.078508e-004	-2.162035e-003	-2.328731e-004
294	-2.255173e-004	-1.853128e-003	-4.059826e-005
295	-2.199475e-004	-1.264296e-003	-3.080938e-005
296	-2.165686e-004	-9.482757e-004	-2.694781e-005
297	1.448766e-004	-1.411381e-003	-1.722923e-004
298	1.437358e-004	-1.758900e-003	-1.735601e-004
299	1.385480e-004	-2.393034e-003	-1.735295e-004
300	-2.052021e-004	-2.041517e-003	1.567845e-005
301	-2.015428e-004	-1.445544e-003	2.001923e-005
302	-1.989209e-004	-1.126174e-003	2.149573e-005
303	1.743700e-004	-1.501433e-003	-1.152662e-004
304	1.740919e-004	-1.852499e-003	-1.143910e-004
305	1.702601e-004	-2.492391e-003	-1.110769e-004
306	-1.776441e-004	-2.126702e-003	7.392147e-005
307	-1.763468e-004	-1.529850e-003	7.311639e-005
308	-1.748734e-004	-1.210084e-003	7.227010e-005
309	2.040236e-004	-1.477572e-003	-5.697384e-005
310	2.050986e-004	-1.824857e-003	-5.416263e-005
311	2.032868e-004	-2.458516e-003	-4.780739e-005
312	-1.445699e-004	-2.103725e-003	1.305677e-004
313	-1.461378e-004	-1.511400e-003	1.249047e-004
314	-1.459219e-004	-1.194058e-003	1.218094e-004
315	2.308164e-004	-1.342117e-003	-1.486003e-006
316	2.337538e-004	-1.676899e-003	3.910591e-006
317	2.355401e-004	-2.288518e-003	1.502630e-005
318	-1.078789e-004	-1.973309e-003	1.820751e-004
319	-1.127748e-004	-1.391442e-003	1.718268e-004
320	-1.140766e-004	-1.079282e-003	1.668103e-004
321	2.512484e-004	-1.106872e-003	4.601894e-005
322	2.555427e-004	-1.420698e-003	5.330656e-005
323	2.602958e-004	-1.994368e-003	6.729843e-005
324	-7.112226e-005	-1.744814e-003	2.240100e-004
325	-7.890672e-005	-1.178339e-003	2.107809e-004
326	-8.175452e-005	-8.735445e-004	2.045810e-004
327	2.629585e-004	-7.928746e-004	8.138684e-005
328	2.685812e-004	-1.080112e-003	8.968228e-005
329	2.756690e-004	-1.606556e-003	1.046264e-004
330	-3.775078e-005	-1.436196e-003	2.542891e-004
331	-4.767022e-005	-8.869863e-004	2.398390e-004
332	-5.166230e-005	-5.905551e-004	2.331248e-004
333	2.631256e-004	-4.281429e-004	1.022051e-004
334	2.707678e-004	-6.841697e-004	1.110216e-004
335	2.798419e-004	-1.156938e-003	1.257587e-004
336	-1.061575e-005	-1.069485e-003	2.720670e-004
337	-2.169879e-005	-5.374069e-004	2.578557e-004
338	-2.641805e-005	-2.494067e-004	2.510768e-004
339	2.498783e-004	-4.599770e-005	1.071012e-004
340	2.598379e-004	-2.675448e-004	1.156976e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
341	2.712217e-004	-6.859732e-004	1.272496e-004
342	7.486409e-006	-6.708098e-004	2.774266e-004
343	-3.232257e-006	-1.532890e-004	2.645045e-004
344	-8.111331e-006	1.265291e-004	2.576165e-004
345	2.290874e-004	3.211955e-004	9.761860e-005
346	2.303811e-004	1.328167e-004	1.074247e-004
347	2.428691e-004	-4.002697e-005	1.064752e-004
348	2.543589e-004	-2.351166e-004	1.060999e-004
349	1.390682e-005	-2.670998e-004	2.728592e-004
350	1.050590e-005	-1.130171e-005	2.660007e-004
351	7.493430e-006	2.395602e-004	2.590597e-004
352	1.899194e-006	5.122206e-004	2.549860e-004
353	2.111425e-004	5.622736e-004	8.628003e-005
354	2.157900e-004	3.881058e-004	8.745662e-005
355	2.276903e-004	5.204901e-005	9.435097e-005
356	1.630055e-005	7.797319e-006	2.628110e-004
357	7.484539e-006	5.096202e-004	2.535393e-004
358	4.369410e-006	7.812987e-004	2.497246e-004
359	1.932449e-004	7.806104e-004	7.089110e-005
360	1.979756e-004	6.181673e-004	7.238619e-005
361	2.067090e-004	3.109115e-004	8.047783e-005
362	1.491275e-005	2.688739e-004	2.527242e-004
363	6.656066e-006	7.679986e-004	2.459210e-004
364	3.457549e-006	1.039759e-003	2.429063e-004
365	1.661152e-004	1.072275e-003	4.943826e-005
366	1.701578e-004	9.287711e-004	5.270985e-005
367	1.776651e-004	6.618530e-004	6.018589e-005
368	8.164688e-006	6.414322e-004	2.361911e-004
369	1.818716e-006	1.139740e-003	2.319631e-004
370	-1.122822e-006	1.411657e-003	2.300509e-004
371	1.402171e-004	1.311840e-003	3.191150e-005
372	1.438100e-004	1.186389e-003	3.548559e-005
373	1.505881e-004	9.544386e-004	4.209282e-005
374	-3.067050e-006	9.664429e-004	2.191035e-004
375	-7.473496e-006	1.468111e-003	2.168818e-004
376	-9.633514e-006	1.741746e-003	2.158459e-004
377	1.157538e-004	1.504148e-003	1.669439e-005
378	1.188126e-004	1.394408e-003	1.989372e-005
379	1.246902e-004	1.192152e-003	2.551794e-005
380	-1.768884e-005	1.238326e-003	2.021389e-004
381	-2.049495e-005	1.746020e-003	2.013328e-004
382	-2.188636e-005	2.022678e-003	2.009092e-004
383	9.258350e-005	1.652233e-003	2.658228e-006
384	9.493786e-005	1.555187e-003	5.278305e-006
385	9.959576e-005	1.376886e-003	9.744331e-006
386	-3.476698e-005	1.453343e-003	1.856466e-004
387	-3.641218e-005	1.968026e-003	1.857297e-004
388	-3.721406e-005	2.248237e-003	1.856830e-004
389	7.050609e-005	1.757982e-003	-1.088664e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
390	7.198853e-005	1.670220e-003	-8.940037e-006
391	7.509583e-005	1.509472e-003	-5.796821e-006
392	-5.357214e-005	1.609068e-003	1.697634e-004
393	-5.447035e-005	2.130179e-003	1.703383e-004
394	-5.487604e-005	2.413692e-003	1.704960e-004
395	4.930035e-005	1.822523e-003	-2.445101e-005
396	4.977844e-005	1.740325e-003	-2.323648e-005
397	5.105915e-005	1.590118e-003	-2.151244e-005
398	-7.358441e-005	1.703972e-003	1.545256e-004
399	-7.405213e-005	2.229791e-003	1.553461e-004
400	-7.421767e-005	2.515743e-003	1.556084e-004
401	2.870685e-005	1.846385e-003	-3.843004e-005
402	2.810102e-005	1.765823e-003	-3.796732e-005
403	2.737520e-005	1.618723e-003	-3.766672e-005
404	-9.446331e-005	1.737142e-003	1.399591e-004
405	-9.467708e-005	2.265233e-003	1.409259e-004
406	-9.469626e-005	2.552384e-003	1.412632e-004
407	8.407202e-006	1.829575e-003	-5.310837e-005
408	6.700601e-006	1.746643e-003	-5.337262e-005
409	3.908615e-006	1.595062e-003	-5.440733e-005
410	-1.159978e-004	1.708111e-003	1.261473e-004
411	-1.159681e-004	2.235803e-003	1.272914e-004
412	-1.158577e-004	2.522785e-003	1.277356e-004
413	-1.199219e-005	1.771606e-003	-6.866543e-005
414	-1.475315e-005	1.682359e-003	-6.958916e-005
415	-1.954207e-005	1.518836e-003	-7.179274e-005
416	-1.380446e-004	1.616814e-003	1.132834e-004
417	-1.375996e-004	2.141684e-003	1.147417e-004
418	-1.372910e-004	2.427263e-003	1.153730e-004
419	-3.297018e-005	1.671459e-003	-8.518936e-005
420	-3.668615e-005	1.572144e-003	-8.666984e-005
421	-4.328510e-005	1.389606e-003	-8.982063e-005
422	-1.604562e-004	1.463655e-003	1.017072e-004
423	-1.592361e-004	1.984005e-003	1.036918e-004
424	-1.585727e-004	2.267331e-003	1.046219e-004
425	-5.510320e-005	1.527500e-003	-1.026946e-004
426	-5.963168e-005	1.414645e-003	-1.046102e-004
427	-6.777700e-005	1.206587e-003	-1.084615e-004
428	-1.829971e-004	1.249690e-003	9.192606e-005
429	-1.804685e-004	1.764994e-003	9.468110e-005
430	-1.792137e-004	2.045830e-003	9.602716e-005
431	-7.913817e-005	1.337302e-003	-1.211117e-004
432	-8.422615e-005	1.207801e-003	-1.233839e-004
433	-9.366074e-005	9.683161e-004	-1.277066e-004
434	-2.052477e-004	9.769403e-004	8.460606e-005
435	-2.007555e-004	1.488192e-003	8.834522e-005
436	-1.986237e-004	1.767080e-003	9.018250e-005
437	-1.062543e-004	1.097222e-003	-1.401378e-004
438	-1.111885e-004	9.486463e-004	-1.429706e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
439	-1.217816e-004	6.721947e-004	-1.476592e-004
440	-2.264975e-004	6.488261e-004	8.051949e-005
441	-2.193821e-004	1.158692e-003	8.532651e-005
442	-2.161353e-004	1.436912e-003	8.754641e-005
443	-1.380301e-004	8.016514e-004	-1.589025e-004
444	-1.413587e-004	6.331483e-004	-1.631735e-004
445	-1.530893e-004	3.139563e-004	-1.688487e-004
446	-2.456547e-004	2.707230e-004	8.045259e-005
447	-2.354452e-004	7.832819e-004	8.604649e-005
448	-2.311099e-004	1.062260e-003	8.799475e-005
449	-1.603973e-004	5.784065e-004	-1.707919e-004
450	-1.632581e-004	3.976804e-004	-1.751852e-004
451	-1.750410e-004	4.787379e-005	-1.845468e-004
452	-2.563970e-004	4.602413e-006	8.299486e-005
453	-2.437177e-004	5.208769e-004	8.807128e-005
454	-2.387446e-004	8.001170e-004	8.951169e-005
455	-1.786612e-004	3.306529e-004	-1.843153e-004
456	-1.889133e-004	1.350818e-004	-1.819944e-004
457	-1.928984e-004	-4.473991e-005	-1.950742e-004
458	-1.970815e-004	-2.486701e-004	-2.068852e-004
459	-2.657427e-004	-2.763894e-004	8.918178e-005
460	-2.576962e-004	-1.269485e-005	8.972965e-005
461	-2.497262e-004	2.455179e-004	8.989518e-005
462	-2.436632e-004	5.259111e-004	9.363376e-005
463	-1.965487e-004	-7.867335e-005	-2.029651e-004
464	-2.088720e-004	-3.128296e-004	-2.097047e-004
465	-2.250453e-004	-7.548719e-004	-2.161864e-004
466	-2.676799e-004	-7.235762e-004	9.793541e-005
467	-2.513439e-004	-1.889373e-004	1.032548e-004
468	-2.429939e-004	9.989638e-005	1.051339e-004
469	-1.934015e-004	-5.030221e-004	-2.179802e-004
470	-2.042360e-004	-7.758277e-004	-2.218447e-004
471	-2.213381e-004	-1.279086e-003	-2.245272e-004
472	-2.523656e-004	-1.162073e-003	1.149889e-004
473	-2.354594e-004	-6.116735e-004	1.198060e-004
474	-2.276792e-004	-3.141178e-004	1.214358e-004
475	-1.662398e-004	-8.978551e-004	-2.240928e-004
476	-1.753255e-004	-1.203644e-003	-2.261463e-004
477	-1.911043e-004	-1.763802e-003	-2.265784e-004
478	-2.191737e-004	-1.555873e-003	1.357533e-004
479	-2.033919e-004	-9.886152e-004	1.390641e-004
480	-1.963535e-004	-6.828635e-004	1.399098e-004
481	-1.184618e-004	-1.220268e-003	-2.237275e-004
482	-1.251779e-004	-1.552528e-003	-2.248958e-004
483	-1.373167e-004	-2.160156e-003	-2.232455e-004
484	-1.695525e-004	-1.872279e-003	1.570139e-004
485	-1.570832e-004	-1.289510e-003	1.585405e-004
486	-1.514953e-004	-9.764777e-004	1.583125e-004
487	-5.578480e-005	-1.436746e-003	-2.186117e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
488	-5.914767e-005	-1.786048e-003	-2.188549e-004
489	-6.513026e-005	-2.423933e-003	-2.152202e-004
490	-1.068202e-004	-2.083628e-003	1.754980e-004
491	-9.971800e-005	-1.490161e-003	1.753312e-004
492	-9.639258e-005	-1.172027e-003	1.742260e-004
493	1.416002e-005	-1.526302e-003	-2.106130e-004
494	1.352293e-005	-1.882009e-003	-2.101560e-004
495	1.193901e-005	-2.530748e-003	-2.054333e-004
496	-3.716251e-005	-2.172267e-003	1.886345e-004
497	-3.580531e-005	-1.574623e-003	1.873197e-004
498	-3.506679e-005	-1.254344e-003	1.857659e-004
499	8.494252e-005	-1.481193e-003	-2.017203e-004
500	8.709331e-005	-1.834184e-003	-2.011600e-004
501	8.999690e-005	-2.478651e-003	-1.962210e-004
502	3.423248e-005	-2.132455e-003	1.954817e-004
503	2.972102e-005	-1.536385e-003	1.936821e-004
504	2.783592e-005	-1.216916e-003	1.918380e-004
505	1.498858e-004	-1.305661e-003	-1.918344e-004
506	1.554354e-004	-1.645271e-003	-1.912123e-004
507	1.646920e-004	-2.265981e-003	-1.864760e-004
508	1.020791e-004	-1.966536e-003	1.954582e-004
509	9.186199e-005	-1.378526e-003	1.937979e-004
510	8.753097e-005	-1.062798e-003	1.921654e-004
511	2.012906e-004	-1.017045e-003	-1.813573e-004
512	2.091476e-004	-1.333873e-003	-1.807805e-004
513	2.223215e-004	-1.913453e-003	-1.769663e-004
514	1.596310e-004	-1.688929e-003	1.893119e-004
515	1.456278e-004	-1.113694e-003	1.884192e-004
516	1.395884e-004	-8.038020e-004	1.874229e-004
517	2.334832e-004	-6.447878e-004	-1.705107e-004
518	2.429779e-004	-9.326484e-004	-1.706959e-004
519	2.579270e-004	-1.461277e-003	-1.683861e-004
520	2.026507e-004	-1.324357e-003	1.792118e-004
521	1.870508e-004	-7.630377e-004	1.794437e-004
522	1.801788e-004	-4.596056e-004	1.791055e-004
523	2.422516e-004	-2.274056e-004	-1.578794e-004
524	2.535223e-004	-4.813499e-004	-1.602314e-004
525	2.686489e-004	-9.539174e-004	-1.601050e-004
526	2.286296e-004	-9.030429e-004	1.676631e-004
527	2.134439e-004	-3.540893e-004	1.688988e-004
528	2.062517e-004	-5.682020e-005	1.688687e-004
529	2.275984e-004	1.914549e-004	-1.438205e-004
530	2.384044e-004	-2.591346e-005	-1.468845e-004
531	2.513948e-004	-4.440642e-004	-1.537452e-004
532	2.365890e-004	-4.591022e-004	1.577934e-004
533	2.233308e-004	8.143138e-005	1.584671e-004
534	2.164747e-004	3.729442e-004	1.584446e-004
535	2.175303e-004	3.521445e-004	-1.408987e-004
536	2.254767e-004	1.469062e-004	-1.358394e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
537	2.309269e-004	-4.051526e-005	-1.468088e-004
538	2.363025e-004	-2.515657e-004	-1.565455e-004
539	2.349292e-004	-2.830600e-004	1.563157e-004
540	2.286826e-004	-1.102740e-005	1.551348e-004
541	2.225527e-004	2.559882e-004	1.534931e-004
542	2.171794e-004	5.466527e-004	1.558612e-004
543	1.851731e-004	7.186550e-004	-1.308047e-004
544	1.877723e-004	5.326677e-004	-1.336429e-004
545	1.979149e-004	1.788363e-004	-1.373264e-004
546	2.239558e-004	1.350316e-004	1.474702e-004
547	2.149840e-004	6.725630e-004	1.496544e-004
548	2.116136e-004	9.645422e-004	1.502084e-004
549	1.503313e-004	1.030447e-003	-1.228045e-004
550	1.539266e-004	8.608627e-004	-1.243059e-004
551	1.627120e-004	5.447694e-004	-1.258915e-004
552	2.079021e-004	5.170057e-004	1.440588e-004
553	2.022985e-004	1.057983e-003	1.465717e-004
554	1.998632e-004	1.353001e-003	1.476635e-004
555	1.188615e-004	1.289223e-003	-1.135503e-004
556	1.226803e-004	1.135515e-003	-1.142074e-004
557	1.301405e-004	8.512836e-004	-1.154437e-004
558	1.881331e-004	8.536152e-004	1.442610e-004
559	1.855221e-004	1.402526e-003	1.463621e-004
560	1.842650e-004	1.701927e-003	1.474191e-004
561	9.004087e-005	1.499573e-003	-1.038907e-004
562	9.326903e-005	1.359566e-003	-1.041928e-004
563	9.924794e-005	1.101533e-003	-1.051478e-004
564	1.658532e-004	1.137944e-003	1.475316e-004
565	1.656008e-004	1.697910e-003	1.490711e-004
566	1.653980e-004	2.003102e-003	1.498394e-004
567	6.274835e-005	1.664406e-003	-9.449884e-005
568	6.502973e-005	1.534990e-003	-9.448863e-005
569	6.921167e-005	1.297083e-003	-9.500997e-005
570	1.419484e-004	1.364920e-003	1.533619e-004
571	1.433716e-004	1.937401e-003	1.543559e-004
572	1.439456e-004	2.249151e-003	1.548079e-004
573	3.622931e-005	1.785329e-003	-8.565534e-005
574	3.736692e-005	1.662917e-003	-8.525796e-005
575	3.941250e-005	1.438390e-003	-8.516201e-005
576	1.170159e-004	1.530820e-003	1.612712e-004
577	1.195296e-004	2.115712e-003	1.618064e-004
578	1.206222e-004	2.434012e-003	1.619867e-004
579	9.899246e-006	1.863121e-003	-7.746787e-005
580	9.761470e-006	1.743789e-003	-7.660995e-005
581	9.412143e-006	1.525235e-003	-7.572066e-005
582	9.144281e-005	1.632865e-003	1.708797e-004
583	9.464347e-005	2.228834e-003	1.710591e-004
584	9.607737e-005	2.553037e-003	1.710322e-004
585	-1.675878e-005	1.897897e-003	-6.992146e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
586	-1.823217e-005	1.777502e-003	-6.855921e-005
587	-2.108996e-005	1.557050e-003	-6.673495e-005
588	6.549688e-005	1.668921e-003	1.819506e-004
589	6.920703e-005	2.273867e-003	1.818488e-004
590	7.091095e-005	2.602932e-003	1.816715e-004
591	-4.422261e-005	1.889160e-003	-6.285923e-005
592	-4.700271e-005	1.763490e-003	-6.098934e-005
593	-5.230388e-005	1.533109e-003	-5.815169e-005
594	3.942041e-005	1.637329e-003	1.944044e-004
595	4.371161e-005	2.248934e-003	1.940248e-004
596	4.573222e-005	2.581710e-003	1.937242e-004
597	-7.294728e-005	1.835757e-003	-5.595486e-005
598	-7.690793e-005	1.700724e-003	-5.362285e-005
599	-8.439813e-005	1.452591e-003	-4.978417e-005
600	1.352565e-005	1.536856e-003	2.083092e-004
601	1.872894e-005	2.153182e-003	2.075431e-004
602	2.123528e-005	2.488731e-003	2.070947e-004
603	-1.033861e-004	1.735769e-003	-4.868567e-005
604	-1.083058e-004	1.587602e-003	-4.599628e-005
605	-1.175523e-004	1.314484e-003	-4.127947e-005
606	-1.170775e-005	1.366780e-003	2.238523e-004
607	-5.004136e-006	1.986920e-003	2.224374e-004
608	-1.723206e-006	2.324865e-003	2.217448e-004
609	-1.360233e-004	1.586292e-003	-4.027605e-005
610	-1.415876e-004	1.421743e-003	-3.744268e-005
611	-1.520180e-004	1.117335e-003	-3.208582e-005
612	-3.553482e-005	1.127128e-003	2.412856e-004
613	-2.650913e-005	1.751880e-003	2.387703e-004
614	-2.205291e-005	2.092763e-003	2.376480e-004
615	-1.714249e-004	1.383006e-003	-2.949864e-005
616	-1.772085e-004	1.199673e-003	-2.708275e-005
617	-1.881977e-004	8.588172e-004	-2.143851e-005
618	-5.685736e-005	8.190722e-004	2.608322e-004
619	-4.451290e-005	1.451592e-003	2.565629e-004
620	-3.837526e-005	1.797244e-003	2.547360e-004
621	-2.102014e-004	1.119349e-003	-1.426737e-005
622	-2.156958e-004	9.164386e-004	-1.382091e-005
623	-2.268311e-004	5.351134e-004	-8.515452e-006
624	-7.419907e-005	4.455231e-004	2.824760e-004
625	-5.744984e-005	1.091840e-003	2.756989e-004
626	-4.912642e-005	1.445676e-003	2.728426e-004
627	-2.518336e-004	7.879688e-004	6.949847e-006
628	-2.556833e-004	5.752972e-004	3.700002e-006
629	-2.664954e-004	1.664325e-004	5.919182e-006
630	-8.506591e-005	5.638744e-005	3.037324e-004
631	-6.319344e-005	7.349091e-004	2.934608e-004
632	-5.275459e-005	1.105424e-003	2.887748e-004
633	-2.933454e-004	3.772471e-004	2.701678e-005
634	-2.956212e-004	1.572241e-004	3.237842e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
635	-3.051037e-004	-4.765264e-005	2.502667e-005
636	-3.142437e-004	-2.769090e-004	1.815247e-005
637	-8.869865e-005	-3.687226e-004	3.269744e-004
638	-7.568870e-005	-7.028657e-006	3.191185e-004
639	-6.317994e-005	3.533118e-004	3.107191e-004
640	-4.928387e-005	7.460915e-004	3.049530e-004
641	-3.272203e-004	-1.011849e-004	4.054435e-005
642	-3.364017e-004	-3.415146e-004	4.141747e-005
643	-3.437181e-004	-7.990643e-004	4.271129e-005
644	-8.362250e-005	-8.204688e-004	3.461293e-004
645	-5.222585e-005	-4.377977e-005	3.287196e-004
646	-3.652618e-005	3.790881e-004	3.198877e-004
647	-3.454155e-004	-6.241305e-004	4.203083e-005
648	-3.509548e-004	-8.831837e-004	4.403616e-005
649	-3.560409e-004	-1.363339e-003	4.817288e-005
650	-6.446568e-005	-1.275655e-003	3.616053e-004
651	-2.992682e-005	-4.349593e-004	3.413668e-004
652	-1.318588e-005	2.228360e-005	3.314028e-004
653	-3.402777e-004	-1.149558e-003	3.091701e-005
654	-3.440498e-004	-1.423945e-003	3.392267e-005
655	-3.487624e-004	-1.926989e-003	3.967224e-005
656	-3.166638e-005	-1.709212e-003	3.705698e-004
657	3.797772e-006	-7.982356e-004	3.482827e-004
658	2.062087e-005	-3.041523e-004	3.372732e-004
659	-3.139545e-004	-1.632561e-003	6.408865e-006
660	-3.171724e-004	-1.921101e-003	9.995683e-006
661	-3.214851e-004	-2.447404e-003	1.700628e-005
662	1.386765e-005	-2.094835e-003	3.710615e-004
663	4.770311e-005	-1.111823e-003	3.483204e-004
664	6.346505e-005	-5.802704e-004	3.367409e-004
665	-2.698531e-004	-2.032735e-003	-3.062415e-005
666	-2.730431e-004	-2.334541e-003	-2.647167e-005
667	-2.774430e-004	-2.883171e-003	-1.799079e-005
668	6.961504e-005	-2.407010e-003	3.620996e-004
669	9.956397e-005	-1.355534e-003	3.405811e-004
670	1.132125e-004	-7.883063e-004	3.292535e-004
671	-2.115868e-004	-2.315865e-003	-7.876202e-005
672	-2.146180e-004	-2.630453e-003	-7.434573e-005
673	-2.186662e-004	-3.201205e-003	-6.498425e-005
674	1.325996e-004	-2.624220e-003	3.434062e-004
675	1.565786e-004	-1.512337e-003	3.249019e-004
676	1.671611e-004	-9.136433e-004	3.146321e-004
677	-1.433892e-004	-2.455439e-003	-1.346449e-004
678	-1.459288e-004	-2.780628e-003	-1.301051e-004
679	-1.491269e-004	-3.369532e-003	-1.205443e-004
680	1.986938e-004	-2.729289e-003	3.156538e-004
681	2.152625e-004	-1.569820e-003	3.016902e-004
682	2.223435e-004	-9.459541e-004	2.933678e-004
683	-7.136570e-005	-2.435701e-003	-1.946996e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
684	-7.439490e-005	-2.770142e-003	-1.895019e-004
685	-7.916097e-005	-3.375409e-003	-1.783811e-004
686	2.628825e-004	-2.713941e-003	2.814985e-004
687	2.721797e-004	-1.521519e-003	2.725595e-004
688	2.758118e-004	-8.798136e-004	2.666775e-004
689	-2.665620e-007	-2.251529e-003	-2.564235e-004
690	-3.974885e-006	-2.595438e-003	-2.510188e-004
691	-1.041424e-005	-3.219117e-003	-2.387455e-004
692	3.219144e-004	-2.578590e-003	2.434142e-004
693	3.243823e-004	-1.367449e-003	2.397964e-004
694	3.247900e-004	-7.153101e-004	2.364599e-004
695	6.621102e-005	-1.906900e-003	-3.156340e-004
696	6.277701e-005	-2.258439e-003	-3.110645e-004
697	5.685809e-005	-2.898124e-003	-2.998461e-004
698	3.726124e-004	-2.329865e-003	2.040405e-004
699	3.690791e-004	-1.114030e-003	2.057991e-004
700	3.669439e-004	-4.583626e-004	2.050722e-004
701	1.228333e-004	-1.417048e-003	-3.667159e-004
702	1.196902e-004	-1.772749e-003	-3.634131e-004
703	1.137588e-004	-2.423092e-003	-3.535108e-004
704	4.112189e-004	-1.983168e-003	1.676983e-004
705	4.041315e-004	-7.739555e-004	1.736054e-004
706	4.005810e-004	-1.201701e-004	1.751546e-004
707	1.651236e-004	-8.095947e-004	-4.046020e-004
708	1.624168e-004	-1.165639e-003	-4.045583e-004
709	1.559193e-004	-1.823753e-003	-3.968166e-004
710	4.364230e-004	-1.562613e-003	1.383711e-004
711	4.286215e-004	-3.654429e-004	1.465539e-004
712	4.242881e-004	2.832182e-004	1.494762e-004
713	1.910524e-004	-1.229859e-004	-4.232326e-004
714	1.898876e-004	-4.706637e-004	-4.302659e-004
715	1.811789e-004	-1.131589e-003	-4.282787e-004
716	4.489535e-004	-1.095719e-003	1.191241e-004
717	4.418872e-004	8.916220e-005	1.269359e-004
718	4.363590e-004	7.304495e-004	1.305713e-004
719	2.009536e-004	5.989858e-004	-4.254516e-004
720	2.067259e-004	2.715197e-004	-4.299481e-004
721	1.925686e-004	-3.948554e-005	-4.411536e-004
722	1.789565e-004	-3.886812e-004	-4.517690e-004
723	4.541670e-004	-6.111392e-004	1.148588e-004
724	4.476630e-004	-1.715787e-005	1.144228e-004
725	4.406894e-004	5.644037e-004	1.133668e-004
726	4.374806e-004	1.195602e-003	1.210303e-004

Prueba de carga 4

Desplazamientos de nudos

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
1	2.371847e-004	7.775847e-004	1.627249e-004
2	2.361654e-004	3.772466e-004	1.638406e-004
3	2.308982e-004	1.144736e-005	1.622116e-004
4	2.254891e-004	-3.430819e-004	1.605825e-004
5	-2.255473e-004	-3.431827e-004	1.606790e-004
6	-2.309542e-004	1.143722e-005	1.623071e-004
7	-2.362174e-004	3.773196e-004	1.639352e-004
8	-2.372354e-004	7.777446e-004	1.628193e-004
9	2.366712e-004	1.092425e-003	1.595386e-004
10	2.343492e-004	6.939105e-004	1.592015e-004
11	2.316035e-004	-3.365788e-005	1.551503e-004
12	-2.316577e-004	-3.356553e-005	1.552541e-004
13	-2.344017e-004	6.941701e-004	1.592995e-004
14	-2.367191e-004	1.092769e-003	1.596327e-004
15	2.383811e-004	1.394422e-003	1.477265e-004
16	2.371770e-004	9.924217e-004	1.450537e-004
17	2.353411e-004	2.546392e-004	1.390794e-004
18	-2.353892e-004	2.549548e-004	1.392067e-004
19	-2.372200e-004	9.928793e-004	1.451600e-004
20	-2.384164e-004	1.394945e-003	1.478185e-004
21	2.428102e-004	1.663602e-003	1.253232e-004
22	2.418738e-004	1.253917e-003	1.210716e-004
23	2.401112e-004	5.013802e-004	1.126881e-004
24	-2.401387e-004	5.019827e-004	1.128558e-004
25	-2.418905e-004	1.254588e-003	1.211852e-004
26	-2.428132e-004	1.664288e-003	1.254035e-004
27	2.492417e-004	1.879654e-003	9.277505e-005
28	2.482978e-004	1.459093e-003	8.712994e-005
29	2.464978e-004	6.865658e-004	7.610254e-005
30	-2.464765e-004	6.875501e-004	7.632357e-005
31	-2.482574e-004	1.459979e-003	8.723840e-005
32	-2.491787e-004	1.880450e-003	9.281855e-005
33	2.575201e-004	2.023021e-003	5.026694e-005
34	2.565314e-004	1.588498e-003	4.319360e-005
35	2.546689e-004	7.903601e-004	2.936983e-005
36	-2.545509e-004	7.918396e-004	2.964718e-005
37	-2.563832e-004	1.589558e-003	4.326580e-005
38	-2.573377e-004	2.023798e-003	5.022483e-005
39	2.676758e-004	2.074327e-003	-2.193412e-006
40	2.666603e-004	1.622645e-003	-1.073656e-005
41	2.647241e-004	7.929924e-004	-2.748730e-005
42	-2.644365e-004	7.950711e-004	-2.717003e-005
43	-2.663277e-004	1.623750e-003	-1.076074e-005
44	-2.672945e-004	2.074823e-003	-2.403432e-006
45	2.795619e-004	2.014025e-003	-6.481269e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
46	2.787462e-004	1.542067e-003	-7.464820e-005
47	2.767658e-004	6.747353e-004	-9.444382e-005
48	-2.762035e-004	6.774585e-004	-9.413615e-005
49	-2.781211e-004	1.542928e-003	-7.487013e-005
50	-2.788702e-004	2.013765e-003	-6.531938e-005
51	2.920738e-004	1.821396e-003	-1.385925e-004
52	2.926851e-004	1.327314e-003	-1.485369e-004
53	2.910224e-004	4.159320e-004	-1.714492e-004
54	-2.900456e-004	4.192040e-004	-1.712529e-004
55	-2.916228e-004	1.327391e-003	-1.491130e-004
56	-2.909164e-004	1.819585e-003	-1.395893e-004
57	3.026377e-004	1.472539e-003	-2.249052e-004
58	3.070765e-004	9.589000e-004	-2.324513e-004
59	3.088780e-004	-2.913235e-006	-2.583824e-004
60	-3.073234e-004	5.456234e-007	-2.584760e-004
61	-3.053868e-004	9.572793e-004	-2.336064e-004
62	-3.008049e-004	1.467913e-003	-2.266623e-004
63	3.178738e-004	9.495078e-004	-3.115253e-004
64	3.098667e-004	4.170646e-004	-3.266535e-004
65	3.264387e-004	-7.333404e-005	-3.407930e-004
66	3.419814e-004	-6.008888e-004	-3.549325e-004
67	-3.397722e-004	-5.980469e-004	-3.555970e-004
68	-3.240026e-004	-7.405840e-005	-3.421442e-004
69	-3.072249e-004	4.123170e-004	-3.286913e-004
70	-3.152010e-004	9.402670e-004	-3.142623e-004
71	3.295867e-004	5.333838e-004	-3.567231e-004
72	3.351686e-004	-2.594444e-005	-3.791111e-004
73	3.403294e-004	-1.080881e-003	-4.086241e-004
74	-3.373800e-004	-1.079124e-003	-4.097171e-004
75	-3.320515e-004	-3.366999e-005	-3.817853e-004
76	-3.263259e-004	5.202325e-004	-3.601420e-004
77	3.462157e-004	6.719432e-005	-3.893412e-004
78	3.505347e-004	-5.205151e-004	-4.092352e-004
79	3.495364e-004	-1.613863e-003	-4.396394e-004
80	-3.458633e-004	-1.613684e-003	-4.411017e-004
81	-3.467657e-004	-5.319592e-004	-4.124568e-004
82	-3.423424e-004	4.927802e-005	-3.934105e-004
83	3.691869e-004	-6.717337e-004	-3.976675e-004
84	3.702145e-004	-1.296610e-003	-4.135067e-004
85	3.677501e-004	-2.449491e-003	-4.427774e-004
86	-3.628842e-004	-2.452448e-003	-4.447594e-004
87	-3.652975e-004	-1.314844e-003	-4.174157e-004
88	-3.642292e-004	-6.983184e-004	-4.025156e-004
89	3.871488e-004	-1.382717e-003	-3.597497e-004
90	3.877035e-004	-2.037613e-003	-3.727534e-004
91	3.849742e-004	-3.244942e-003	-3.985431e-004
92	-3.788455e-004	-3.252010e-003	-4.010652e-004
93	-3.815741e-004	-2.063814e-003	-3.772295e-004
94	-3.810428e-004	-1.419255e-003	-3.651706e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
95	4.010411e-004	-1.986478e-003	-2.835831e-004
96	4.020469e-004	-2.665207e-003	-2.929481e-004
97	3.992370e-004	-3.917635e-003	-3.117807e-004
98	-3.918796e-004	-3.929899e-003	-3.149232e-004
99	-3.947585e-004	-2.700319e-003	-2.978631e-004
100	-3.938561e-004	-2.033809e-003	-2.893316e-004
101	4.095055e-004	-2.420852e-003	-1.791645e-004
102	4.107054e-004	-3.114029e-003	-1.835494e-004
103	4.078841e-004	-4.393537e-003	-1.920648e-004
104	-3.994846e-004	-4.412264e-003	-1.959240e-004
105	-4.024719e-004	-3.158691e-003	-1.887088e-004
106	-4.014819e-004	-2.479227e-003	-1.848913e-004
107	4.120891e-004	-2.644510e-003	-5.877595e-005
108	4.132311e-004	-3.341972e-003	-5.879950e-005
109	4.104581e-004	-4.629212e-003	-5.896839e-005
110	-4.014128e-004	-4.655834e-003	-6.359120e-005
111	-4.044834e-004	-3.396319e-003	-6.386063e-005
112	-4.036898e-004	-2.713304e-003	-6.393610e-005
113	4.094450e-004	-2.637485e-003	6.707868e-005
114	4.108002e-004	-3.330668e-003	7.154260e-005
115	4.081307e-004	-4.610684e-003	7.996709e-005
116	-3.991128e-004	-4.646624e-003	7.467799e-005
117	-4.022514e-004	-3.393952e-003	6.717594e-005
118	-4.014154e-004	-2.714712e-003	6.333542e-005
119	4.006250e-004	-2.399387e-003	1.878488e-004
120	4.019268e-004	-3.077614e-003	1.976531e-004
121	3.994208e-004	-4.330088e-003	2.171284e-004
122	-3.914518e-004	-4.376377e-003	2.115530e-004
123	-3.946375e-004	-3.147604e-003	1.949622e-004
124	-3.940500e-004	-2.481000e-003	1.868016e-004
125	3.859082e-004	-1.951303e-003	2.911952e-004
126	3.867680e-004	-2.604282e-003	3.051021e-004
127	3.844797e-004	-3.809290e-003	3.327236e-004
128	-3.789889e-004	-3.865866e-003	3.277176e-004
129	-3.821953e-004	-2.676401e-003	3.056038e-004
130	-3.822500e-004	-2.030257e-003	2.946798e-004
131	3.670190e-004	-1.334959e-003	3.673968e-004
132	3.676565e-004	-1.955854e-003	3.841356e-004
133	3.656436e-004	-3.101322e-003	4.167888e-004
134	-3.644851e-004	-3.165914e-003	4.139395e-004
135	-3.676569e-004	-2.022029e-003	3.900351e-004
136	-3.681321e-004	-1.400049e-003	3.779343e-004
137	3.444361e-004	-6.079689e-004	4.091028e-004
138	3.457584e-004	-1.191084e-003	4.284210e-004
139	3.443044e-004	-2.268685e-003	4.638841e-004
140	-3.496641e-004	-2.335149e-003	4.658279e-004
141	-3.525182e-004	-1.238342e-003	4.427323e-004
142	-3.526062e-004	-6.424150e-004	4.300514e-004
143	3.181740e-004	1.596174e-004	4.110889e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
144	3.218575e-004	-3.800028e-004	4.333634e-004
145	3.232984e-004	-1.387303e-003	4.689098e-004
146	-3.372575e-004	-1.443307e-003	4.796866e-004
147	-3.378482e-004	-3.889320e-004	4.599378e-004
148	-3.361063e-004	1.797909e-004	4.466091e-004
149	2.941882e-004	8.962492e-004	3.799126e-004
150	2.887075e-004	4.024174e-004	3.975991e-004
151	3.008207e-004	-5.302404e-005	4.147808e-004
152	3.122559e-004	-5.357906e-004	4.319625e-004
153	-3.346077e-004	-5.598381e-004	4.573359e-004
154	-3.267273e-004	-4.046590e-005	4.491588e-004
155	-3.179782e-004	4.590994e-004	4.409816e-004
156	-3.233562e-004	1.002222e-003	4.327648e-004
157	2.801304e-004	1.350359e-003	3.477755e-004
158	2.843106e-004	8.751079e-004	3.606102e-004
159	2.883315e-004	-2.020710e-005	3.931478e-004
160	-3.210409e-004	-5.559756e-006	4.300306e-004
161	-3.194065e-004	9.937510e-004	4.156285e-004
162	-3.172511e-004	1.530447e-003	4.122920e-004
163	2.725890e-004	1.642596e-003	3.204314e-004
164	2.735204e-004	1.215661e-003	3.319341e-004
165	2.729153e-004	4.240637e-004	3.569107e-004
166	-3.137410e-004	5.379209e-004	3.998266e-004
167	-3.156260e-004	1.592333e-003	3.833269e-004
168	-3.142274e-004	2.163193e-003	3.779457e-004
169	2.612589e-004	2.094947e-003	2.828561e-004
170	2.610183e-004	1.717285e-003	2.905253e-004
171	2.604834e-004	1.024958e-003	3.055193e-004
172	-3.042575e-004	1.156509e-003	3.559894e-004
173	-3.083979e-004	2.240144e-003	3.367986e-004
174	-3.092787e-004	2.828090e-003	3.279137e-004
175	2.471789e-004	2.595842e-003	2.349149e-004
176	2.469236e-004	2.231678e-003	2.413973e-004
177	2.467029e-004	1.563456e-003	2.533761e-004
178	-2.986941e-004	1.668777e-003	3.113980e-004
179	-3.030413e-004	2.719116e-003	2.950026e-004
180	-3.049677e-004	3.290449e-003	2.869459e-004
181	2.344042e-004	3.011354e-003	1.869448e-004
182	2.342846e-004	2.658316e-003	1.922386e-004
183	2.340169e-004	2.009772e-003	2.022015e-004
184	-2.956247e-004	2.102902e-003	2.647109e-004
185	-2.996351e-004	3.125679e-003	2.517587e-004
186	-3.017614e-004	3.682542e-003	2.452172e-004
187	2.227973e-004	3.341282e-003	1.386462e-004
188	2.227166e-004	2.997405e-003	1.430347e-004
189	2.223313e-004	2.365376e-003	1.514719e-004
190	-2.949608e-004	2.455139e-003	2.164202e-004
191	-2.984877e-004	3.456988e-003	2.072038e-004
192	-3.004896e-004	4.002614e-003	2.024960e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
193	2.121116e-004	3.585206e-003	8.998548e-005
194	2.119850e-004	3.248938e-003	9.362827e-005
195	2.114512e-004	2.630843e-003	1.007321e-004
196	-2.967023e-004	2.722588e-003	1.669804e-004
197	-2.997049e-004	3.710466e-003	1.615646e-004
198	-3.014706e-004	4.248499e-003	1.587787e-004
199	2.022204e-004	3.742584e-003	4.085302e-005
200	2.019930e-004	3.412538e-003	4.378678e-005
201	2.012831e-004	2.805967e-003	4.957643e-005
202	-3.007856e-004	2.903091e-003	1.167815e-004
203	-3.032637e-004	3.883947e-003	1.151033e-004
204	-3.047533e-004	4.418105e-003	1.142205e-004
205	1.931137e-004	3.812635e-003	-8.916041e-006
206	1.927338e-004	3.487395e-003	-6.740276e-006
207	1.918106e-004	2.889853e-003	-2.366024e-006
208	-3.071022e-004	2.995143e-003	6.616513e-005
209	-3.090716e-004	3.975734e-003	6.807801e-005
210	-3.102641e-004	4.509639e-003	6.901695e-005
211	1.848919e-004	3.794328e-003	-5.946643e-005
212	1.842798e-004	3.472294e-003	-5.818254e-005
213	1.830818e-004	2.880984e-003	-5.544928e-005
214	-3.155062e-004	2.997831e-003	1.544259e-005
215	-3.169850e-004	3.984567e-003	2.071026e-005
216	-3.178523e-004	4.521635e-003	2.332280e-005
217	1.778122e-004	3.686522e-003	-1.108417e-004
218	1.768067e-004	3.365696e-003	-1.107132e-004
219	1.752195e-004	2.777243e-003	-1.100307e-004
220	-3.258016e-004	2.910806e-003	-3.509125e-005
221	-3.267981e-004	3.909548e-003	-2.685163e-005
222	-3.272751e-004	4.452827e-003	-2.282089e-005
223	1.723999e-004	3.488270e-003	-1.629086e-004
224	1.705999e-004	3.165906e-003	-1.644014e-004
225	1.683724e-004	2.575909e-003	-1.664732e-004
226	-3.377845e-004	2.734273e-003	-8.514960e-005
227	-3.382478e-004	3.749984e-003	-7.457454e-005
228	-3.381544e-004	4.301920e-003	-6.953314e-005
229	1.695441e-004	3.221183e-003	-2.123506e-004
230	1.663309e-004	2.888024e-003	-2.168270e-004
231	1.627442e-004	2.279799e-003	-2.242847e-004
232	-3.514079e-004	2.461990e-003	-1.351411e-004
233	-3.514387e-004	3.489066e-003	-1.246672e-004
234	-3.508188e-004	4.046847e-003	-1.198778e-004
235	1.692852e-004	2.898874e-003	-2.604707e-004
236	1.648614e-004	2.543264e-003	-2.689010e-004
237	1.594269e-004	1.894588e-003	-2.838437e-004
238	-3.654476e-004	2.080460e-003	-1.850065e-004
239	-3.654260e-004	3.106338e-003	-1.764688e-004
240	-3.646652e-004	3.663310e-003	-1.726799e-004
241	1.716263e-004	2.512470e-003	-3.097699e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
242	1.663221e-004	2.124871e-003	-3.222889e-004
243	1.585732e-004	1.416955e-003	-3.454480e-004
244	-3.794957e-004	1.590423e-003	-2.347152e-004
245	-3.796500e-004	2.604922e-003	-2.288054e-004
246	-3.787316e-004	3.155327e-003	-2.265843e-004
247	1.758452e-004	2.061666e-003	-3.609287e-004
248	1.708381e-004	1.633110e-003	-3.770058e-004
249	1.606466e-004	8.459728e-004	-4.088829e-004
250	-3.934501e-004	9.917552e-004	-2.847195e-004
251	-3.937149e-004	1.983452e-003	-2.820656e-004
252	-3.919662e-004	2.519598e-003	-2.830425e-004
253	1.813609e-004	1.545605e-003	-4.136876e-004
254	1.773697e-004	1.068989e-003	-4.327154e-004
255	1.670967e-004	1.820329e-004	-4.741283e-004
256	-4.083290e-004	2.838491e-004	-3.351907e-004
257	-4.061899e-004	1.240111e-003	-3.371529e-004
258	-4.024806e-004	1.749805e-003	-3.441615e-004
259	1.954273e-004	9.688231e-004	-4.619779e-004
260	1.777793e-004	4.341929e-004	-4.870756e-004
261	1.830742e-004	-5.490656e-005	-5.157403e-004
262	1.862009e-004	-5.728375e-004	-5.430155e-004
263	-4.334391e-004	-5.343620e-004	-3.838045e-004
264	-4.201526e-004	-6.429218e-005	-3.908697e-004
265	-4.072879e-004	3.723268e-004	-3.977316e-004
266	-4.131921e-004	8.449692e-004	-3.984772e-004
267	2.093942e-004	5.255036e-004	-4.881488e-004
268	2.002302e-004	-6.501806e-005	-5.239318e-004
269	1.859096e-004	-1.168381e-003	-5.784091e-004
270	-4.265048e-004	-1.190700e-003	-4.144933e-004
271	-4.247322e-004	-3.282325e-004	-4.242345e-004
272	-4.185831e-004	1.276314e-004	-4.241661e-004
273	2.305445e-004	7.195514e-005	-5.068873e-004
274	2.215350e-004	-5.783047e-004	-5.423438e-004
275	2.005227e-004	-1.783961e-003	-5.975813e-004
276	-4.207782e-004	-1.874424e-003	-4.200950e-004
277	-4.246625e-004	-1.060607e-003	-4.294551e-004
278	-4.218738e-004	-6.235782e-004	-4.319480e-004
279	2.690609e-004	-5.528578e-004	-5.093136e-004
280	2.593172e-004	-1.285527e-003	-5.405323e-004
281	2.366595e-004	-2.638622e-003	-5.930033e-004
282	-4.009009e-004	-2.827133e-003	-3.888674e-004
283	-4.066460e-004	-2.083978e-003	-3.985079e-004
284	-4.079183e-004	-1.681244e-003	-4.027738e-004
285	3.137752e-004	-1.115511e-003	-4.829605e-004
286	3.056310e-004	-1.920302e-003	-5.092673e-004
287	2.843423e-004	-3.407378e-003	-5.542189e-004
288	-3.648027e-004	-3.686745e-003	-3.187751e-004
289	-3.708144e-004	-3.010169e-003	-3.273128e-004
290	-3.731551e-004	-2.642798e-003	-3.314653e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
291	3.628186e-004	-1.570191e-003	-4.324741e-004
292	3.581692e-004	-2.432518e-003	-4.520955e-004
293	3.414338e-004	-4.028481e-003	-4.841670e-004
294	-3.125553e-004	-4.382038e-003	-2.151060e-004
295	-3.187653e-004	-3.760472e-003	-2.225453e-004
296	-3.212723e-004	-3.422952e-003	-2.262531e-004
297	4.125337e-004	-1.881504e-003	-3.633954e-004
298	4.121771e-004	-2.780598e-003	-3.742333e-004
299	4.027315e-004	-4.445428e-003	-3.891418e-004
300	-2.461818e-004	-4.849335e-003	-8.836201e-005
301	-2.524476e-004	-4.270806e-003	-9.514576e-005
302	-2.550752e-004	-3.956527e-003	-9.836670e-005
303	4.592294e-004	-2.026835e-003	-2.827707e-004
304	4.632077e-004	-2.939347e-003	-2.849240e-004
305	4.613456e-004	-4.628888e-003	-2.842454e-004
306	-1.738484e-004	-5.057438e-003	4.427320e-005
307	-1.782771e-004	-4.504069e-003	4.142467e-005
308	-1.802923e-004	-4.203212e-003	4.008503e-005
309	5.001501e-004	-1.996790e-003	-1.968394e-004
310	5.091719e-004	-2.899615e-003	-1.904352e-004
311	5.161967e-004	-4.571956e-003	-1.743809e-004
312	-9.895941e-005	-4.999081e-003	1.785849e-004
313	-1.013230e-004	-4.446558e-003	1.799132e-004
314	-1.022916e-004	-4.146236e-003	1.804050e-004
315	5.315328e-004	-1.794357e-003	-1.113415e-004
316	5.458657e-004	-2.663174e-003	-9.603831e-005
317	5.636084e-004	-4.272288e-003	-6.338937e-005
318	-2.327992e-005	-4.671198e-003	3.092441e-004
319	-2.477499e-005	-4.099740e-003	3.120057e-004
320	-2.523429e-005	-3.789091e-003	3.132667e-004
321	5.496370e-004	-1.435799e-003	-3.325081e-005
322	5.680578e-004	-2.248112e-003	-1.063976e-005
323	5.949518e-004	-3.750570e-003	3.444363e-005
324	4.353802e-005	-4.095074e-003	4.200050e-004
325	4.384824e-005	-3.488564e-003	4.250068e-004
326	4.411341e-005	-3.158675e-003	4.273797e-004
327	5.522688e-004	-9.500270e-004	3.136215e-005
328	5.740005e-004	-1.689055e-003	5.893386e-005
329	6.078752e-004	-3.054586e-003	1.113974e-004
330	9.407398e-005	-3.323874e-003	5.036643e-004
331	9.671784e-005	-2.664525e-003	5.114860e-004
332	9.809537e-005	-2.306023e-003	5.148904e-004
333	5.370113e-004	-3.760509e-004	7.815440e-005
334	5.620162e-004	-1.029540e-003	1.085892e-004
335	6.007033e-004	-2.237858e-003	1.640120e-004
336	1.242087e-004	-2.418097e-003	5.573646e-004
337	1.291436e-004	-1.693319e-003	5.669120e-004
338	1.316891e-004	-1.300574e-003	5.696992e-004
339	5.025688e-004	2.393066e-004	1.041317e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
340	5.304621e-004	-3.213243e-004	1.350699e-004
341	5.726146e-004	-1.366129e-003	1.868737e-004
342	1.284108e-004	-1.452058e-003	5.785843e-004
343	1.372004e-004	-6.533793e-004	5.878688e-004
344	1.410459e-004	-2.262961e-004	5.872171e-004
345	4.570900e-004	8.493114e-004	1.098745e-004
346	4.735920e-004	3.801546e-004	1.418552e-004
347	5.031053e-004	-5.011029e-005	1.583730e-004
348	5.306083e-004	-5.067647e-004	1.754436e-004
349	9.989550e-005	-5.020089e-004	5.741514e-004
350	1.126961e-004	-5.205168e-005	5.716171e-004
351	1.252936e-004	3.715115e-004	5.690489e-004
352	1.254807e-004	8.307340e-004	5.769489e-004
353	4.210000e-004	1.263454e-003	1.061047e-004
354	4.407476e-004	8.449898e-004	1.263112e-004
355	4.810682e-004	6.036662e-005	1.675444e-004
356	8.405794e-005	1.233573e-004	5.487165e-004
357	9.380497e-005	1.045578e-003	5.548314e-004
358	1.038812e-004	1.536848e-003	5.596586e-004
359	3.851790e-004	1.650304e-003	9.571181e-005
360	4.035885e-004	1.277277e-003	1.147301e-004
361	4.379627e-004	5.866328e-004	1.541140e-004
362	6.212296e-005	7.022478e-004	5.280416e-004
363	6.818742e-005	1.668909e-003	5.357823e-004
364	7.517904e-005	2.190154e-003	5.393092e-004
365	3.294061e-004	2.185732e-003	7.900841e-005
366	3.450940e-004	1.880735e-003	9.732844e-005
367	3.745502e-004	1.322190e-003	1.306788e-004
368	2.519116e-005	1.507503e-003	4.976798e-004
369	2.991917e-005	2.536147e-003	5.047438e-004
370	3.319007e-005	3.094432e-003	5.076703e-004
371	2.755734e-004	2.644444e-003	6.235033e-005
372	2.887322e-004	2.399004e-003	7.822248e-005
373	3.136660e-004	1.951935e-003	1.052272e-004
374	-1.284678e-005	2.195566e-003	4.676160e-004
375	-8.846904e-006	3.277111e-003	4.736823e-004
376	-6.555471e-006	3.864528e-003	4.760972e-004
377	2.241458e-004	3.025020e-003	4.425326e-005
378	2.346862e-004	2.828787e-003	5.701323e-005
379	2.548961e-004	2.472624e-003	7.802408e-005
380	-5.179624e-005	2.763861e-003	4.377279e-004
381	-4.849310e-005	3.889334e-003	4.428363e-004
382	-4.659476e-005	4.500565e-003	4.447966e-004
383	1.750411e-004	3.325338e-003	2.393274e-005
384	1.828078e-004	3.167364e-003	3.361378e-005
385	1.980262e-004	2.881665e-003	4.906753e-005
386	-9.164180e-005	3.210091e-003	4.080653e-004
387	-8.908590e-005	4.370465e-003	4.122733e-004
388	-8.754990e-005	5.000596e-003	4.138079e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
389	1.280740e-004	3.543316e-003	1.144158e-006
390	1.329064e-004	3.412572e-003	7.960704e-006
391	1.428571e-004	3.177002e-003	1.829451e-005
392	-1.323555e-004	3.532272e-003	3.786952e-004
393	-1.306130e-004	4.718410e-003	3.820559e-004
394	-1.294689e-004	5.362494e-003	3.831884e-004
395	8.305238e-005	3.677285e-003	-2.421564e-005
396	8.478780e-005	3.562759e-003	-2.002442e-005
397	8.918710e-005	3.357050e-003	-1.438595e-005
398	-1.738852e-004	3.728768e-003	3.496890e-004
399	-1.730250e-004	4.931417e-003	3.522557e-004
400	-1.723041e-004	5.584444e-003	3.530094e-004
401	3.979079e-005	3.726078e-003	-5.224077e-005
402	3.826100e-005	3.616760e-003	-5.043909e-005
403	3.681449e-005	3.420650e-003	-4.908389e-005
404	-2.161602e-004	3.798336e-003	3.211184e-004
405	-2.162498e-004	5.008138e-003	3.229484e-004
406	-2.159824e-004	5.665041e-003	3.233485e-004
407	-1.887355e-006	3.689023e-003	-8.304139e-005
408	-6.858152e-006	3.573875e-003	-8.339847e-005
409	-1.445895e-005	3.367050e-003	-8.592377e-005
410	-2.590985e-004	3.740142e-003	2.930523e-004
411	-2.602015e-004	4.947658e-003	2.942079e-004
412	-2.604165e-004	5.603327e-003	2.942820e-004
413	-4.214825e-005	3.565939e-003	-1.167452e-004
414	-5.074455e-005	3.433862e-003	-1.190331e-004
415	-6.482433e-005	3.195896e-003	-1.250411e-004
416	-3.026132e-004	3.553779e-003	2.655529e-004
417	-3.047889e-004	4.749512e-003	2.661011e-004
418	-3.055132e-004	5.398806e-003	2.658788e-004
419	-8.114933e-005	3.357146e-003	-1.534946e-004
420	-9.356113e-005	3.196951e-003	-1.574865e-004
421	-1.144616e-004	2.907242e-003	-1.665799e-004
422	-3.466184e-004	3.239256e-003	2.386706e-004
423	-3.499231e-004	4.413678e-003	2.386819e-004
424	-3.511821e-004	5.051438e-003	2.381945e-004
425	-1.190657e-004	3.063462e-003	-1.934340e-004
426	-1.354572e-004	2.863857e-003	-1.989124e-004
427	-1.635342e-004	2.501581e-003	-2.106902e-004
428	-3.910346e-004	2.796979e-003	2.124402e-004
429	-3.955270e-004	3.940544e-003	2.119853e-004
430	-3.973475e-004	4.561602e-003	2.112637e-004
431	-1.562256e-004	2.686110e-003	-2.366413e-004
432	-1.765715e-004	2.435818e-003	-2.434644e-004
433	-2.121796e-004	1.979890e-003	-2.575288e-004
434	-4.357920e-004	2.227729e-003	1.868752e-004
435	-4.415439e-004	3.330860e-003	1.860135e-004
436	-4.439836e-004	3.930001e-003	1.850298e-004
437	-1.935004e-004	2.226274e-003	-2.828609e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
438	-2.170587e-004	1.914628e-003	-2.912402e-004
439	-2.604832e-004	1.343701e-003	-3.072873e-004
440	-4.808351e-004	1.532622e-003	1.619840e-004
441	-4.879408e-004	2.585649e-003	1.606861e-004
442	-4.913107e-004	3.157129e-003	1.588509e-004
443	-2.323399e-004	1.684218e-003	-3.309568e-004
444	-2.572741e-004	1.302655e-003	-3.418695e-004
445	-3.083398e-004	5.952292e-004	-3.604595e-004
446	-5.261925e-004	7.131124e-004	1.380158e-004
447	-5.346352e-004	1.706060e-003	1.355240e-004
448	-5.401496e-004	2.241176e-003	1.300229e-004
449	-2.574382e-004	1.289215e-003	-3.619485e-004
450	-2.837257e-004	8.611773e-004	-3.738176e-004
451	-3.386768e-004	5.648362e-005	-3.977259e-004
452	-5.560263e-004	1.204116e-004	1.246930e-004
453	-5.644323e-004	1.069437e-003	1.177312e-004
454	-5.725830e-004	1.574152e-003	1.093811e-004
455	-2.760968e-004	8.639946e-004	-3.957445e-004
456	-3.128348e-004	3.841109e-004	-3.996945e-004
457	-3.395887e-004	-5.663941e-005	-4.228488e-004
458	-3.661511e-004	-5.264886e-004	-4.437661e-004
459	-5.884033e-004	-5.224514e-004	1.192700e-004
460	-5.901909e-004	-5.806915e-005	1.054855e-004
461	-5.918834e-004	3.777115e-004	9.189473e-005
462	-5.992976e-004	8.495125e-004	9.452817e-005
463	-2.890902e-004	1.849972e-004	-4.462656e-004
464	-3.288082e-004	-3.981845e-004	-4.620067e-004
465	-3.942263e-004	-1.486033e-003	-4.828486e-004
466	-6.038293e-004	-1.582778e-003	9.190231e-005
467	-6.160712e-004	-7.655179e-004	8.722667e-005
468	-6.167362e-004	-3.285204e-004	8.316076e-005
469	-2.726181e-004	-4.981588e-004	-4.910082e-004
470	-3.092226e-004	-1.183684e-003	-5.034254e-004
471	-3.742968e-004	-2.452055e-003	-5.189093e-004
472	-5.717514e-004	-2.653047e-003	8.969029e-005
473	-5.839413e-004	-1.918987e-003	8.843632e-005
474	-5.882872e-004	-1.521097e-003	8.698010e-005
475	-2.240160e-004	-1.121597e-003	-5.216580e-004
476	-2.551874e-004	-1.897408e-003	-5.317959e-004
477	-3.130213e-004	-3.332052e-003	-5.431325e-004
478	-4.924323e-004	-3.628949e-003	1.006663e-004
479	-5.022678e-004	-2.969683e-003	1.008502e-004
480	-5.067298e-004	-2.611292e-003	1.006643e-004
481	-1.486123e-004	-1.624930e-003	-5.392997e-004
482	-1.716845e-004	-2.473534e-003	-5.479945e-004
483	-2.154791e-004	-4.044902e-003	-5.548059e-004
484	-3.704898e-004	-4.418772e-003	1.203300e-004
485	-3.778993e-004	-3.818090e-003	1.215950e-004
486	-3.813762e-004	-3.491576e-003	1.219063e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
487	-5.435087e-005	-1.961204e-003	-5.444978e-004
488	-6.675037e-005	-2.857947e-003	-5.513385e-004
489	-9.046369e-005	-4.519299e-003	-5.534771e-004
490	-2.161979e-004	-4.943233e-003	1.433640e-004
491	-2.219929e-004	-4.383515e-003	1.452067e-004
492	-2.246028e-004	-4.079268e-003	1.458681e-004
493	4.886074e-005	-2.100579e-003	-5.383779e-004
494	4.728013e-005	-3.016824e-003	-5.433799e-004
495	4.312468e-005	-4.713833e-003	-5.420699e-004
496	-5.077263e-005	-5.158333e-003	1.652040e-004
497	-5.174749e-005	-4.617573e-003	1.677462e-004
498	-5.219625e-005	-4.323456e-003	1.689391e-004
499	1.522319e-004	-2.031586e-003	-5.228161e-004
500	1.616422e-004	-2.939245e-003	-5.267440e-004
501	1.773866e-004	-4.620819e-003	-5.234994e-004
502	1.167173e-004	-5.056066e-003	1.856847e-004
503	1.207341e-004	-4.504889e-003	1.888520e-004
504	1.225776e-004	-4.205242e-003	1.901598e-004
505	2.468096e-004	-1.760312e-003	-4.982934e-004
506	2.671795e-004	-2.630316e-003	-5.011609e-004
507	3.038981e-004	-4.241264e-003	-4.970166e-004
508	2.774172e-004	-4.636901e-003	2.026312e-004
509	2.836456e-004	-4.052189e-003	2.057343e-004
510	2.866549e-004	-3.734269e-003	2.070138e-004
511	3.228660e-004	-1.311117e-003	-4.664219e-004
512	3.515789e-004	-2.118099e-003	-4.683394e-004
513	4.036432e-004	-3.610023e-003	-4.646809e-004
514	4.096608e-004	-3.937428e-003	2.150328e-004
515	4.193707e-004	-3.299278e-003	2.177917e-004
516	4.239477e-004	-2.952156e-003	2.189976e-004
517	3.728839e-004	-7.250832e-004	-4.291266e-004
518	4.072700e-004	-1.450966e-003	-4.311337e-004
519	4.682662e-004	-2.791827e-003	-4.291288e-004
520	5.022042e-004	-3.029500e-003	2.253258e-004
521	5.157758e-004	-2.318272e-003	2.275077e-004
522	5.216984e-004	-1.931814e-003	2.280300e-004
523	3.909929e-004	-5.649858e-005	-3.867722e-004
524	4.292208e-004	-6.890351e-004	-3.908334e-004
525	4.930480e-004	-1.861334e-003	-3.916283e-004
526	5.494160e-004	-1.997516e-003	2.359528e-004
527	5.655835e-004	-1.200163e-003	2.366384e-004
528	5.705779e-004	-7.699309e-004	2.346237e-004
529	3.765700e-004	6.323286e-004	-3.418225e-004
530	4.141024e-004	9.849883e-005	-3.464500e-004
531	4.741118e-004	-9.048020e-004	-3.562276e-004
532	5.476152e-004	-9.385672e-004	2.517459e-004
533	5.640908e-004	-4.952899e-005	2.450061e-004
534	5.676800e-004	4.210735e-004	2.401504e-004
535	3.647917e-004	9.045938e-004	-3.280675e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
536	3.980534e-004	4.054136e-004	-3.220065e-004
537	4.262364e-004	-5.083824e-005	-3.369453e-004
538	4.538001e-004	-5.353550e-004	-3.495756e-004
539	5.339542e-004	-5.290180e-004	2.663813e-004
540	5.411992e-004	-5.282390e-005	2.538484e-004
541	5.482539e-004	3.950841e-004	2.415092e-004
542	5.559693e-004	8.818885e-004	2.464337e-004
543	3.234841e-004	1.538436e-003	-2.902080e-004
544	3.475591e-004	1.111967e-003	-2.940150e-004
545	3.976046e-004	3.182628e-004	-3.003883e-004
546	4.871647e-004	4.101303e-004	2.703169e-004
547	5.013746e-004	1.416361e-003	2.676611e-004
548	5.114339e-004	1.956576e-003	2.631313e-004
549	2.751204e-004	2.101617e-003	-2.574936e-004
550	2.972748e-004	1.738541e-003	-2.595673e-004
551	3.394332e-004	1.071737e-003	-2.635752e-004
552	4.401793e-004	1.236092e-003	2.846916e-004
553	4.531660e-004	2.314772e-003	2.842930e-004
554	4.600080e-004	2.899633e-003	2.825556e-004
555	2.271898e-004	2.587772e-003	-2.261735e-004
556	2.461636e-004	2.280481e-003	-2.271227e-004
557	2.801186e-004	1.719598e-003	-2.307477e-004
558	3.923753e-004	1.944726e-003	3.009476e-004
559	4.041187e-004	3.086755e-003	3.006226e-004
560	4.095908e-004	3.707014e-003	2.997533e-004
561	1.791556e-004	2.995194e-003	-1.973395e-004
562	1.939355e-004	2.733527e-003	-1.977137e-004
563	2.197224e-004	2.257338e-003	-2.007483e-004
564	3.437149e-004	2.532196e-003	3.182501e-004
565	3.542442e-004	3.728575e-003	3.178239e-004
566	3.590294e-004	4.378388e-003	3.170271e-004
567	1.300968e-004	3.321361e-003	-1.716635e-004
568	1.404255e-004	3.094003e-003	-1.713871e-004
569	1.581403e-004	2.681125e-003	-1.733342e-004
570	2.942353e-004	2.994935e-003	3.365704e-004
571	3.035436e-004	4.236528e-003	3.361025e-004
572	3.077357e-004	4.910843e-003	3.352923e-004
573	7.959866e-005	3.563532e-003	-1.492631e-004
574	8.547601e-005	3.358820e-003	-1.480671e-004
575	9.521973e-005	2.987705e-003	-1.483883e-004
576	2.439896e-004	3.329647e-003	3.559405e-004
577	2.520505e-004	4.607091e-003	3.555221e-004
578	2.556428e-004	5.300835e-003	3.547330e-004
579	2.744064e-005	3.719324e-003	-1.300920e-004
580	2.891779e-005	3.525451e-003	-1.276719e-004
581	3.078694e-005	3.174354e-003	-1.258202e-004
582	1.930387e-004	3.533323e-003	3.763834e-004
583	1.998239e-004	4.837003e-003	3.761143e-004
584	2.028034e-004	5.544974e-003	3.753922e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
585	-2.656726e-005	3.786882e-003	-1.140773e-004
586	-2.943093e-005	3.591919e-003	-1.101269e-004
587	-3.533949e-005	3.238864e-003	-1.055525e-004
588	1.414452e-004	3.603259e-003	3.979171e-004
589	1.469397e-004	4.923325e-003	3.979002e-004
590	1.493016e-004	5.640196e-003	3.972932e-004
591	-8.262648e-005	3.764882e-003	-1.011389e-004
592	-8.976292e-005	3.556781e-003	-9.535974e-005
593	-1.033387e-004	3.179550e-003	-8.751555e-005
594	8.926969e-005	3.537059e-003	4.205657e-004
595	9.348869e-005	4.863472e-003	4.209009e-004
596	9.524469e-005	5.583823e-003	4.204577e-004
597	-1.409596e-004	3.652501e-003	-9.117299e-005
598	-1.522802e-004	3.419118e-003	-8.328559e-005
599	-1.733778e-004	2.995274e-003	-7.163997e-005
600	3.657067e-005	3.332621e-003	4.443758e-004
601	3.958326e-005	4.655249e-003	4.451491e-004
602	4.077417e-005	5.373621e-003	4.449146e-004
603	-2.018205e-004	3.449347e-003	-8.400274e-005
604	-2.171934e-004	3.178508e-003	-7.378390e-005
605	-2.456035e-004	2.685479e-003	-5.784346e-005
606	-1.658581e-005	2.988111e-003	4.694364e-004
607	-1.462402e-005	4.296888e-003	4.707002e-004
608	-1.391009e-005	5.007877e-003	4.707082e-004
609	-2.655237e-004	3.155281e-003	-7.922865e-005
610	-2.847204e-004	2.834976e-003	-6.665854e-005
611	-3.201344e-004	2.250226e-003	-4.601307e-005
612	-7.010275e-005	2.501937e-003	4.959056e-004
613	-6.890448e-005	3.787117e-003	4.976443e-004
614	-6.852558e-005	4.485514e-003	4.979007e-004
615	-3.324821e-004	2.769906e-003	-7.580364e-005
616	-3.550749e-004	2.388898e-003	-6.155859e-005
617	-3.970717e-004	1.690208e-003	-3.600611e-005
618	-1.238067e-004	1.872731e-003	5.240449e-004
619	-1.229001e-004	3.125289e-003	5.261037e-004
620	-1.228310e-004	3.806143e-003	5.265151e-004
621	-4.029755e-004	2.291512e-003	-7.142544e-005
622	-4.283891e-004	1.840813e-003	-5.778235e-005
623	-4.766960e-004	1.006726e-003	-2.793339e-005
624	-1.773776e-004	1.099369e-003	5.542304e-004
625	-1.761426e-004	2.311595e-003	5.560677e-004
626	-1.773295e-004	2.969495e-003	5.562424e-004
627	-4.756523e-004	1.717972e-003	-6.374392e-005
628	-5.011613e-004	1.208190e-003	-5.290533e-005
629	-5.542572e-004	2.539747e-004	-2.303868e-005
630	-2.248726e-004	2.755354e-004	5.846599e-004
631	-2.224888e-004	1.474687e-003	5.832130e-004
632	-2.260931e-004	2.120394e-003	5.821673e-004
633	-5.457005e-004	1.038918e-003	-6.236169e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
634	-5.714890e-004	4.677702e-004	-3.935630e-005
635	-6.058042e-004	-5.942478e-005	-3.361940e-005
636	-6.391247e-004	-6.151933e-004	-2.685847e-005
637	-2.665146e-004	-6.554478e-004	6.242521e-004
638	-2.688280e-004	-4.945213e-005	6.149288e-004
639	-2.715084e-004	5.344177e-004	6.050640e-004
640	-2.662901e-004	1.167706e-003	6.077573e-004
641	-6.035306e-004	2.772365e-004	-7.388140e-005
642	-6.397815e-004	-3.761878e-004	-5.579749e-005
643	-6.968059e-004	-1.595470e-003	-2.160278e-005
644	-3.009975e-004	-1.687611e-003	6.397817e-004
645	-2.925924e-004	-5.024303e-004	6.349139e-004
646	-2.863046e-004	1.362048e-004	6.281021e-004
647	-6.385505e-004	-5.282390e-004	-1.041947e-004
648	-6.711812e-004	-1.264387e-003	-8.485742e-005
649	-7.270769e-004	-2.624446e-003	-4.642958e-005
650	-2.974669e-004	-2.760359e-003	6.445272e-004
651	-2.835278e-004	-1.572167e-003	6.391300e-004
652	-2.760982e-004	-9.263937e-004	6.347120e-004
653	-6.407206e-004	-1.316286e-003	-1.525913e-004
654	-6.708918e-004	-2.130590e-003	-1.331774e-004
655	-7.254722e-004	-3.631841e-003	-9.393067e-005
656	-2.590633e-004	-3.805284e-003	6.313257e-004
657	-2.408170e-004	-2.603946e-003	6.234311e-004
658	-2.319034e-004	-1.949847e-003	6.191329e-004
659	-6.123669e-004	-2.023058e-003	-2.182865e-004
660	-6.402892e-004	-2.910533e-003	-2.003076e-004
661	-6.907200e-004	-4.547163e-003	-1.626776e-004
662	-1.858603e-004	-4.751888e-003	5.974255e-004
663	-1.651729e-004	-3.527602e-003	5.878378e-004
664	-1.553550e-004	-2.861301e-003	5.827140e-004
665	-5.574308e-004	-2.591699e-003	-2.983694e-004
666	-5.823534e-004	-3.544552e-003	-2.827177e-004
667	-6.265071e-004	-5.302619e-003	-2.483312e-004
668	-8.318497e-005	-5.530791e-003	5.437836e-004
669	-6.120963e-005	-4.276793e-003	5.331301e-004
670	-5.102299e-005	-3.594839e-003	5.272374e-004
671	-4.803180e-004	-2.974718e-003	-3.891102e-004
672	-5.009487e-004	-3.982595e-003	-3.768258e-004
673	-5.359739e-004	-5.843209e-003	-3.479712e-004
674	4.476186e-005	-6.085103e-003	4.714446e-004
675	6.584903e-005	-4.795449e-003	4.612588e-004
676	7.538407e-005	-4.094745e-003	4.551954e-004
677	-3.865088e-004	-3.136214e-003	-4.849648e-004
678	-4.015846e-004	-4.184740e-003	-4.763695e-004
679	-4.253119e-004	-6.119924e-003	-4.548170e-004
680	1.889433e-004	-6.363501e-003	3.836709e-004
681	2.071689e-004	-5.038550e-003	3.752669e-004
682	2.154086e-004	-4.318856e-003	3.698893e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
683	-2.838244e-004	-3.055234e-003	-5.805241e-004
684	-2.940486e-004	-4.129906e-003	-5.748700e-004
685	-3.089450e-004	-6.112186e-003	-5.590983e-004
686	3.347566e-004	-6.344145e-003	2.908511e-004
687	3.521152e-004	-4.982846e-003	2.827354e-004
688	3.598436e-004	-4.243428e-003	2.776373e-004
689	-1.791772e-004	-2.725977e-003	-6.719113e-004
690	-1.850158e-004	-3.814238e-003	-6.692486e-004
691	-1.917547e-004	-5.821164e-003	-6.590951e-004
692	4.787361e-004	-6.027011e-003	1.966195e-004
693	4.948537e-004	-4.624555e-003	1.891137e-004
694	5.016918e-004	-3.863252e-003	1.842103e-004
695	-7.867133e-005	-2.156266e-003	-7.541993e-004
696	-7.975441e-005	-3.244945e-003	-7.546196e-004
697	-7.722818e-005	-5.251538e-003	-7.511347e-004
698	6.158788e-004	-5.415386e-003	1.029945e-004
699	6.279943e-004	-3.972611e-003	9.811996e-005
700	6.328830e-004	-3.189773e-003	9.433611e-005
701	9.973665e-006	-1.369043e-003	-8.217304e-004
702	1.251854e-005	-2.446136e-003	-8.242564e-004
703	2.096281e-005	-4.429564e-003	-8.250327e-004
704	7.314657e-004	-4.535029e-003	2.080766e-005
705	7.405234e-004	-3.056032e-003	1.759430e-005
706	7.435357e-004	-2.253883e-003	1.484340e-005
707	7.972966e-005	-4.029021e-004	-8.697383e-004
708	8.442273e-005	-1.459880e-003	-8.753042e-004
709	9.471988e-005	-3.408595e-003	-8.780569e-004
710	8.191568e-004	-3.441729e-003	-4.215097e-005
711	8.258698e-004	-1.926541e-003	-4.514935e-005
712	8.249126e-004	-1.107622e-003	-4.746142e-005
713	1.259885e-004	6.893156e-004	-8.922242e-004
714	1.328357e-004	-3.373918e-004	-9.041008e-004
715	1.399911e-004	-2.245887e-003	-9.106584e-004
716	8.768605e-004	-2.198290e-003	-8.020931e-005
717	8.780501e-004	-6.484168e-004	-8.720241e-005
718	8.670769e-004	1.771754e-004	-8.894472e-005
719	1.458705e-004	1.845559e-003	-8.925153e-004
720	1.626402e-004	8.610006e-004	-8.980468e-004
721	1.532463e-004	-5.124148e-005	-9.159595e-004
722	1.446115e-004	-1.007850e-003	-9.329124e-004
723	9.112236e-004	-8.825439e-004	-7.506219e-005
724	8.975681e-004	-6.215240e-005	-9.532620e-005
725	8.827874e-004	7.018850e-004	-1.168775e-004
726	8.740344e-004	1.516808e-003	-1.074699e-004

Prueba de carga 5

Desplazamientos de nudos

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
1	3.553918e-004	1.147368e-003	-3.468765e-005
2	3.535526e-004	5.482262e-004	-3.734633e-005
3	3.538808e-004	-3.207485e-006	-3.945904e-005
4	3.538405e-004	-5.556902e-004	-4.157176e-005
5	-3.538767e-004	-5.557520e-004	-4.151434e-005
6	-3.539160e-004	-3.212761e-006	-3.940197e-005
7	-3.535858e-004	5.482737e-004	-3.728960e-005
8	-3.554243e-004	1.147471e-003	-3.463097e-005
9	3.585692e-004	1.082306e-003	-3.219429e-005
10	3.576435e-004	4.769619e-004	-3.531867e-005
11	3.554000e-004	-6.364556e-004	-4.074998e-005
12	-3.554344e-004	-6.364026e-004	-4.068856e-005
13	-3.576770e-004	4.771211e-004	-3.526016e-005
14	-3.586002e-004	1.082520e-003	-3.213786e-005
15	3.634453e-004	1.026951e-003	-2.525884e-005
16	3.623082e-004	4.134963e-004	-2.961770e-005
17	3.597366e-004	-7.139116e-004	-3.791809e-005
18	-3.597679e-004	-7.137275e-004	-3.784381e-005
19	-3.623365e-004	4.137733e-004	-2.955493e-005
20	-3.634693e-004	1.027271e-003	-2.520403e-005
21	3.701876e-004	9.892159e-004	-1.482230e-005
22	3.689593e-004	3.644316e-004	-2.080509e-005
23	3.663038e-004	-7.835997e-004	-3.253562e-005
24	-3.663237e-004	-7.832496e-004	-3.243913e-005
25	-3.689730e-004	3.648337e-004	-2.073899e-005
26	-3.701934e-004	9.896336e-004	-1.477487e-005
27	3.789896e-004	9.752551e-004	-1.621382e-006
28	3.778541e-004	3.355197e-004	-9.205467e-006
29	3.751297e-004	-8.402393e-004	-2.428633e-005
30	-3.751220e-004	-8.396708e-004	-2.416052e-005
31	-3.778355e-004	3.360462e-004	-9.143361e-006
32	-3.789581e-004	9.757377e-004	-1.596055e-006
33	3.895098e-004	9.895786e-004	1.345146e-005
34	3.886905e-004	3.318078e-004	4.762683e-006
35	3.858889e-004	-8.778606e-004	-1.276004e-005
36	-3.858265e-004	-8.770116e-004	-1.260363e-005
37	-3.886108e-004	3.324331e-004	4.802719e-006
38	-3.894107e-004	9.900503e-004	1.342668e-005
39	4.006047e-004	1.033999e-003	2.855097e-005
40	4.003247e-004	3.570215e-004	2.012740e-005
41	3.974487e-004	-8.892033e-004	2.990102e-006
42	-3.972900e-004	-8.880179e-004	3.167256e-006
43	-4.001405e-004	3.576684e-004	2.011087e-005
44	-4.003929e-004	1.034308e-003	2.842911e-005
45	4.100424e-004	1.103917e-003	3.890422e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
46	4.106258e-004	4.102817e-004	3.241777e-005
47	4.077454e-004	-8.683842e-004	1.830562e-005
48	-4.074309e-004	-8.668411e-004	1.847470e-005
49	-4.102758e-004	4.107826e-004	3.228686e-005
50	-4.096546e-004	1.103790e-003	3.861200e-005
51	4.145782e-004	1.181952e-003	3.625546e-005
52	4.176608e-004	4.788529e-004	3.513069e-005
53	4.153097e-004	-8.230630e-004	2.795198e-005
54	-4.147606e-004	-8.212226e-004	2.805440e-005
55	-4.170634e-004	4.788968e-004	3.479650e-005
56	-4.139263e-004	1.180933e-003	3.568266e-005
57	4.085021e-004	1.229743e-003	8.404998e-006
58	4.167373e-004	5.346509e-004	1.711733e-005
59	4.192529e-004	-7.719467e-004	1.947811e-005
60	-4.183783e-004	-7.700216e-004	1.941208e-005
61	-4.157847e-004	5.337154e-004	1.645251e-005
62	-4.074660e-004	1.227110e-003	7.397516e-006
63	4.011868e-004	1.194738e-003	-4.053815e-005
64	3.922305e-004	5.218901e-004	-3.699064e-005
65	4.151441e-004	-9.985950e-005	-3.265626e-005
66	4.362093e-004	-7.723983e-004	-2.832188e-005
67	-4.349745e-004	-7.708526e-004	-2.871577e-005
68	-4.137720e-004	-1.003114e-004	-3.343675e-005
69	-3.907325e-004	5.191607e-004	-3.815774e-005
70	-3.996759e-004	1.189466e-003	-4.209856e-005
71	3.973606e-004	1.124642e-003	-7.302165e-005
72	4.064027e-004	4.488185e-004	-7.671432e-005
73	4.138280e-004	-8.327629e-004	-6.563156e-005
74	-4.121683e-004	-8.318520e-004	-6.626292e-005
75	-4.046453e-004	4.443889e-004	-7.823533e-005
76	-3.955185e-004	1.117149e-003	-7.495777e-005
77	3.984002e-004	1.014791e-003	-1.009320e-004
78	4.053571e-004	3.369274e-004	-9.924485e-005
79	4.045451e-004	-9.287652e-004	-8.521085e-005
80	-4.024763e-004	-9.287516e-004	-8.602969e-005
81	-4.032348e-004	3.303960e-004	-1.010538e-004
82	-3.962153e-004	1.004611e-003	-1.032166e-004
83	3.926693e-004	8.058100e-004	-1.147642e-004
84	3.951059e-004	1.401308e-004	-1.049827e-004
85	3.925467e-004	-1.091036e-003	-8.301111e-005
86	-3.898055e-004	-1.092726e-003	-8.405781e-005
87	-3.923358e-004	1.298359e-004	-1.071195e-004
88	-3.898713e-004	7.908059e-004	-1.174350e-004
89	3.775618e-004	5.946885e-004	-1.032481e-004
90	3.784395e-004	-4.427191e-005	-8.812460e-005
91	3.757763e-004	-1.222963e-003	-5.767326e-005
92	-3.723178e-004	-1.226742e-003	-5.891345e-005
93	-3.749759e-004	-5.885303e-005	-9.049047e-005
94	-3.741000e-004	5.742552e-004	-1.061658e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
95	3.572417e-004	4.177045e-004	-7.874095e-005
96	3.574707e-004	-1.863638e-004	-6.076898e-005
97	3.549409e-004	-1.299469e-003	-2.511686e-005
98	-3.507659e-004	-1.305690e-003	-2.654380e-005
99	-3.533200e-004	-2.055724e-004	-6.326946e-005
100	-3.531252e-004	3.915141e-004	-8.176166e-005
101	3.342140e-004	2.912258e-004	-4.972822e-005
102	3.339654e-004	-2.735254e-004	-3.036580e-005
103	3.316167e-004	-1.313190e-003	7.933089e-006
104	-3.267880e-004	-1.322208e-003	6.320976e-006
105	-3.291982e-004	-2.975068e-004	-3.288709e-005
106	-3.295201e-004	2.592587e-004	-5.267928e-005
107	3.102484e-004	2.185428e-004	-2.171608e-005
108	3.096374e-004	-3.054030e-004	-2.277174e-006
109	3.074839e-004	-1.269125e-003	3.598119e-005
110	-3.021423e-004	-1.281281e-003	3.420903e-005
111	-3.044037e-004	-3.340422e-004	-4.655943e-006
112	-3.051348e-004	1.811754e-004	-2.436353e-005
113	2.866842e-004	1.950979e-004	2.418317e-006
114	2.859057e-004	-2.888818e-004	2.111590e-005
115	2.839491e-004	-1.178662e-003	5.770560e-005
116	-2.783305e-004	-1.194206e-003	5.585986e-005
117	-2.804507e-004	-3.216756e-004	1.912903e-005
118	-2.814021e-004	1.532536e-004	4.051672e-007
119	2.641737e-004	2.124862e-004	2.145495e-005
120	2.633765e-004	-2.334254e-004	3.913984e-005
121	2.616118e-004	-1.053094e-003	7.363619e-005
122	-2.560620e-004	-1.072027e-003	7.191490e-005
123	-2.580527e-004	-2.692827e-004	3.792171e-005
124	-2.590766e-004	1.678536e-004	2.053902e-005
125	2.429139e-004	2.606095e-004	3.483077e-005
126	2.421694e-004	-1.494059e-004	5.147869e-005
127	2.405867e-004	-9.031095e-004	8.390668e-005
128	-2.355680e-004	-9.249166e-004	8.268413e-005
129	-2.374388e-004	-1.863679e-004	5.157629e-005
130	-2.384553e-004	2.159194e-004	3.563797e-005
131	2.228639e-004	3.285460e-004	4.223676e-005
132	2.222203e-004	-4.765902e-005	5.794449e-005
133	2.208082e-004	-7.393212e-004	8.847078e-005
134	-2.168864e-004	-7.625700e-004	8.837656e-005
135	-2.186354e-004	-8.254609e-005	6.011149e-005
136	-2.195808e-004	2.878950e-004	4.557915e-005
137	2.037895e-004	4.048186e-004	4.338643e-005
138	2.034013e-004	6.067387e-005	5.839517e-005
139	2.021853e-004	-5.725248e-004	8.718624e-005
140	-1.999782e-004	-5.943003e-004	8.919255e-005
141	-2.015578e-004	3.266588e-005	6.360949e-005
142	-2.022951e-004	3.740340e-004	5.029223e-005
143	1.852661e-004	4.773292e-004	3.799735e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
144	1.854424e-004	1.642130e-004	5.271498e-005
145	1.848209e-004	-4.138415e-004	7.985590e-005
146	-1.848421e-004	-4.290202e-004	8.535598e-005
147	-1.859309e-004	1.499132e-004	6.215886e-005
148	-1.862940e-004	4.644104e-004	4.974479e-005
149	1.678606e-004	5.343682e-004	2.728353e-005
150	1.667909e-004	2.513958e-004	4.081982e-005
151	1.687049e-004	-9.530437e-006	5.354550e-005
152	1.702772e-004	-2.747859e-004	6.627118e-005
153	-1.722975e-004	-2.751945e-004	7.710853e-005
154	-1.715824e-004	-6.384516e-006	6.645602e-005
155	-1.705258e-004	2.599651e-004	5.580351e-005
156	-1.721131e-004	5.497489e-004	4.501516e-005
157	1.570728e-004	5.619147e-004	1.854597e-005
158	1.581104e-004	2.959222e-004	3.123680e-005
159	1.583679e-004	-1.985926e-004	5.528955e-005
160	-1.625140e-004	-1.828948e-004	7.032119e-005
161	-1.633812e-004	3.257232e-004	5.006819e-005
162	-1.641025e-004	6.024198e-004	4.065099e-005
163	1.497601e-004	5.749337e-004	1.091854e-005
164	1.496660e-004	3.238465e-004	2.399657e-005
165	1.491600e-004	-1.370839e-004	4.565250e-005
166	-1.530314e-004	-9.705936e-005	6.328522e-005
167	-1.548001e-004	3.924372e-004	4.364854e-005
168	-1.552586e-004	6.580679e-004	3.551301e-005
169	1.390721e-004	6.084236e-004	5.182980e-006
170	1.386126e-004	3.774528e-004	1.526566e-005
171	1.391702e-004	-4.366191e-005	3.270996e-005
172	-1.400570e-004	-2.094148e-005	5.405285e-005
173	-1.430872e-004	4.347445e-004	3.398943e-005
174	-1.438131e-004	6.813270e-004	2.436652e-005
175	1.271827e-004	6.367573e-004	-3.115303e-006
176	1.274034e-004	4.234481e-004	5.448818e-006
177	1.284106e-004	3.238481e-005	2.115263e-005
178	-1.292891e-004	3.637921e-005	4.529432e-005
179	-1.326037e-004	4.560695e-004	2.640376e-005
180	-1.339994e-004	6.842048e-004	1.696162e-005
181	1.168236e-004	6.490117e-004	-1.092208e-005
182	1.173227e-004	4.511536e-004	-3.272331e-006
183	1.183963e-004	8.760240e-005	1.126059e-005
184	-1.194521e-004	8.096337e-005	3.679991e-005
185	-1.226526e-004	4.669699e-004	1.928760e-005
186	-1.242622e-004	6.771911e-004	1.034725e-005
187	1.074327e-004	6.464263e-004	-1.794637e-005
188	1.080116e-004	4.627211e-004	-1.083203e-005
189	1.090868e-004	1.249016e-004	2.865001e-006
190	-1.104634e-004	1.131817e-004	2.870928e-005
191	-1.134506e-004	4.681424e-004	1.267245e-005
192	-1.150383e-004	6.615938e-004	4.421975e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
193	9.869975e-005	6.306704e-004	-2.399312e-005
194	9.929206e-005	4.602862e-004	-1.724964e-005
195	1.003508e-004	1.468731e-004	-4.200123e-006
196	-1.023008e-004	1.336907e-004	2.118757e-005
197	-1.050446e-004	4.603352e-004	6.621173e-006
198	-1.065316e-004	6.384023e-004	-8.971810e-007
199	9.048646e-005	6.035796e-004	-2.902928e-005
200	9.106722e-005	4.458846e-004	-2.258785e-005
201	9.209963e-005	1.557992e-004	-1.009085e-005
202	-9.491175e-005	1.434344e-004	1.438582e-005
203	-9.740871e-005	4.444190e-004	1.215333e-006
204	-9.877158e-005	6.085052e-004	-5.596533e-006
205	8.273168e-005	5.669702e-004	-3.309084e-005
206	8.328712e-005	4.214138e-004	-2.692525e-005
207	8.428447e-005	1.536891e-004	-1.494565e-005
208	-8.821856e-005	1.436145e-004	8.431533e-006
209	-9.047835e-005	4.214174e-004	-3.460712e-006
210	-9.171202e-005	5.728489e-004	-9.621740e-006
211	7.540760e-005	5.225726e-004	-3.623427e-005
212	7.593316e-005	3.886298e-004	-3.033869e-005
213	7.688532e-005	1.423206e-004	-1.888340e-005
214	-8.212823e-005	1.356521e-004	3.427960e-006
215	-8.416729e-005	3.925090e-004	-7.331902e-006
216	-8.527817e-005	5.324918e-004	-1.290960e-005
217	6.849155e-005	4.720128e-004	-3.852018e-005
218	6.901048e-005	3.491666e-004	-3.289090e-005
219	6.990717e-005	1.232788e-004	-2.200483e-005
220	-7.653587e-005	1.211494e-004	-5.447083e-007
221	-7.837711e-005	3.590062e-004	-1.034156e-005
222	-7.939344e-005	4.886174e-004	-1.539665e-005
223	6.195052e-005	4.168188e-004	-3.998102e-005
224	6.253140e-005	3.045742e-004	-3.461892e-005
225	6.339098e-005	9.799189e-005	-2.439458e-005
226	-7.131417e-005	1.018520e-004	-3.431285e-006
227	-7.301368e-005	3.223196e-004	-1.245741e-005
228	-7.399890e-005	4.425247e-004	-1.704138e-005
229	5.614077e-005	3.627163e-004	-4.071671e-005
230	5.669851e-005	2.591228e-004	-3.553548e-005
231	5.755735e-005	6.877890e-005	-2.606138e-005
232	-6.619221e-005	7.864460e-005	-5.273395e-006
233	-6.782467e-005	2.814971e-004	-1.366658e-005
234	-6.870399e-005	3.919415e-004	-1.775284e-005
235	5.097443e-005	3.121041e-004	-4.046246e-005
236	5.148569e-005	2.157131e-004	-3.563570e-005
237	5.242719e-005	3.902258e-005	-2.702874e-005
238	-6.108530e-005	5.109285e-005	-6.079418e-006
239	-6.278289e-005	2.362209e-004	-1.397083e-005
240	-6.360879e-005	3.368552e-004	-1.773894e-005
241	4.633000e-005	2.639119e-004	-3.939966e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
242	4.684625e-005	1.741018e-004	-3.500002e-005
243	4.788638e-005	9.659761e-006	-2.723738e-005
244	-5.605008e-005	2.141614e-005	-5.914364e-006
245	-5.784691e-005	1.895940e-004	-1.333704e-005
246	-5.870103e-005	2.809712e-004	-1.684867e-005
247	4.232694e-005	2.191357e-004	-3.756048e-005
248	4.282395e-005	1.352306e-004	-3.361837e-005
249	4.393378e-005	-1.821568e-005	-2.662307e-005
250	-5.104908e-005	-8.240218e-006	-4.866232e-006
251	-5.294312e-005	1.438333e-004	-1.181653e-005
252	-5.386194e-005	2.264849e-004	-1.506155e-005
253	3.901290e-005	1.788101e-004	-3.498289e-005
254	3.946935e-005	1.001382e-004	-3.147568e-005
255	4.053454e-005	-4.333546e-005	-2.511065e-005
256	-4.603849e-005	-3.591353e-005	-3.026906e-006
257	-4.805950e-005	1.010327e-004	-9.461875e-006
258	-4.906223e-005	1.756068e-004	-1.238602e-005
259	3.608928e-005	1.438084e-004	-3.190719e-005
260	3.707888e-005	6.996936e-005	-2.862377e-005
261	3.726740e-005	2.096965e-006	-2.555534e-005
262	3.739765e-005	-6.427307e-005	-2.255494e-005
263	-4.084106e-005	-5.981827e-005	-5.239375e-007
264	-4.218791e-005	1.256483e-006	-3.416042e-006
265	-4.337027e-005	6.314572e-005	-6.275167e-006
266	-4.421154e-005	1.302950e-004	-9.141447e-006
267	3.431030e-005	1.221482e-004	-2.955545e-005
268	3.498760e-005	5.186425e-005	-2.615734e-005
269	3.610887e-005	-7.617824e-005	-2.066252e-005
270	-3.761082e-005	-7.401981e-005	1.591913e-006
271	-3.969880e-005	3.983631e-005	-3.859627e-006
272	-4.081869e-005	1.019489e-004	-6.573379e-006
273	3.260505e-005	1.035225e-004	-2.709650e-005
274	3.328959e-005	3.670614e-005	-2.396065e-005
275	3.464060e-005	-8.536267e-005	-1.884827e-005
276	-3.437421e-005	-8.547037e-005	3.521351e-006
277	-3.635776e-005	1.998386e-005	-1.532170e-006
278	-3.742884e-005	7.743687e-005	-3.966240e-006
279	3.030894e-005	8.179379e-005	-2.392514e-005
280	3.110974e-005	1.971029e-005	-2.116544e-005
281	3.255990e-005	-9.405822e-005	-1.646172e-005
282	-2.997425e-005	-9.704714e-005	5.970700e-006
283	-3.188916e-005	-2.576408e-006	1.460191e-006
284	-3.283978e-005	4.880897e-005	-6.609531e-007
285	2.823568e-005	6.507408e-005	-2.117725e-005
286	2.909540e-005	7.398556e-006	-1.867259e-005
287	3.060805e-005	-9.841482e-005	-1.431986e-005
288	-2.592142e-005	-1.036826e-004	8.096274e-006
289	-2.776602e-005	-1.889159e-005	4.115337e-006
290	-2.866389e-005	2.723086e-005	2.255245e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
291	2.630998e-005	5.262400e-005	-1.876386e-005
292	2.720369e-005	-8.488176e-007	-1.644917e-005
293	2.876781e-005	-9.900279e-005	-1.240300e-005
294	-2.224692e-005	-1.058383e-004	9.894914e-006
295	-2.400125e-005	-2.948181e-005	6.417881e-006
296	-2.485468e-005	1.206703e-005	4.795400e-006
297	2.448464e-005	4.381784e-005	-1.662590e-005
298	2.540279e-005	-5.607041e-006	-1.447152e-005
299	2.701067e-005	-9.635910e-005	-1.069723e-005
300	-1.896235e-005	-1.040414e-004	1.136959e-005
301	-2.060855e-005	-3.494727e-005	8.363041e-006
302	-2.141008e-005	2.661370e-006	6.960634e-006
303	2.273092e-005	3.809420e-005	-1.473350e-005
304	2.366670e-005	-7.419301e-006	-1.272293e-005
305	2.530970e-005	-9.100491e-005	-9.195665e-006
306	-1.607054e-005	-9.886380e-005	1.252876e-005
307	-1.759661e-005	-3.594963e-005	9.952271e-006
308	-1.833954e-005	-1.697752e-006	8.750400e-006
309	2.102834e-005	3.492847e-005	-1.306938e-005
310	2.197426e-005	-6.806546e-006	-1.119237e-005
311	2.364147e-005	-8.345698e-005	-7.896495e-006
312	-1.356764e-005	-9.090706e-005	1.338299e-005
313	-1.496846e-005	-3.319671e-005	1.119033e-005
314	-1.564940e-005	-1.775192e-006	1.016682e-005
315	1.936143e-005	3.382118e-005	-1.162241e-005
316	2.030883e-005	-4.274153e-006	-9.873142e-006
317	2.198653e-005	-7.423361e-005	-6.801039e-006
318	-1.144485e-005	-8.079316e-005	1.394219e-005
319	-1.272235e-005	-2.743072e-005	1.208291e-005
320	-1.334148e-005	1.622234e-006	1.121362e-005
321	1.771827e-005	3.429234e-005	-1.038559e-005
322	1.865785e-005	-3.155902e-007	-8.761655e-006
323	2.032941e-005	-6.385613e-005	-5.912006e-006
324	-9.690256e-006	-6.915884e-005	1.421367e-005
325	-1.085328e-005	-1.942014e-005	1.263475e-005
326	-1.141415e-005	7.655112e-006	1.189415e-005
327	1.608800e-005	3.587721e-005	-9.354985e-006
328	1.701218e-005	4.586539e-006	-7.856120e-006
329	1.865864e-005	-5.284686e-005	-5.232122e-006
330	-8.290753e-006	-5.665330e-005	1.420098e-005
331	-9.354424e-006	-9.954815e-006	1.284820e-005
332	-9.863548e-006	1.545610e-005	1.220775e-005
333	1.445684e-005	3.812125e-005	-8.528293e-006
334	1.536450e-005	9.961439e-006	-7.154950e-006
335	1.696720e-005	-4.172419e-005	-4.763357e-006
336	-7.234688e-006	-4.393826e-005	1.390395e-005
337	-8.217679e-006	1.563508e-007	1.272160e-005
338	-8.683005e-006	2.412450e-005	1.214042e-005
339	1.281260e-005	4.057636e-005	-7.900909e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
340	1.370356e-005	1.535215e-005	-6.652159e-006
341	1.525693e-005	-3.099529e-005	-4.509433e-006
342	-6.521090e-006	-3.168952e-005	1.332501e-005
343	-7.427231e-006	1.008564e-005	1.224255e-005
344	-7.859551e-006	3.270986e-005	1.166432e-005
345	1.120188e-005	4.283258e-005	-7.457355e-006
346	1.198278e-005	2.031704e-005	-6.311770e-006
347	1.280717e-005	-3.590060e-007	-5.410685e-006
348	1.357176e-005	-2.114679e-005	-4.503132e-006
349	-6.223265e-006	-2.059945e-005	1.252230e-005
350	-6.571599e-006	-6.582618e-007	1.192683e-005
351	-6.899734e-006	1.898584e-005	1.133660e-005
352	-7.370774e-006	4.029658e-005	1.089515e-005
353	1.013226e-005	4.426009e-005	-7.220463e-006
354	1.090407e-005	2.338874e-005	-6.231633e-006
355	1.231354e-005	-1.497673e-005	-4.505032e-006
356	-5.963159e-006	-1.381305e-005	1.172637e-005
357	-6.830823e-006	2.428194e-005	1.074061e-005
358	-7.179341e-006	4.486298e-005	1.028705e-005
359	9.136515e-006	4.540300e-005	-7.029619e-006
360	9.853613e-006	2.603371e-005	-6.127138e-006
361	1.116287e-005	-9.483519e-006	-4.547050e-006
362	-5.779263e-006	-7.899797e-006	1.102521e-005
363	-6.684126e-006	2.870206e-005	1.011723e-005
364	-7.065212e-006	4.855869e-005	9.687505e-006
365	7.654808e-006	4.640581e-005	-6.739471e-006
366	8.309265e-006	2.924326e-005	-5.956040e-006
367	9.501183e-006	-2.198477e-006	-4.592903e-006
368	-5.506961e-006	-2.663325e-007	1.000369e-005
369	-6.408495e-006	3.392469e-005	9.164459e-006
370	-6.814778e-006	5.250229e-005	8.768190e-006
371	6.314587e-006	4.665811e-005	-6.470572e-006
372	6.911822e-006	3.142848e-005	-5.794116e-006
373	7.997724e-006	3.538762e-006	-4.629452e-006
374	-5.245938e-006	5.599148e-006	9.050989e-006
375	-6.134125e-006	3.740373e-005	8.277087e-006
376	-6.541875e-006	5.469112e-005	7.912180e-006
377	5.114495e-006	4.617818e-005	-6.217338e-006
378	5.658613e-006	3.263052e-005	-5.638605e-006
379	6.645543e-006	7.821162e-006	-4.647472e-006
380	-4.997835e-006	9.879598e-006	8.161940e-006
381	-5.866570e-006	3.933911e-005	7.453420e-006
382	-6.267221e-006	5.535396e-005	7.119872e-006
383	4.047769e-006	4.500562e-005	-5.975860e-006
384	4.542581e-006	3.291305e-005	-5.483357e-006
385	5.437835e-006	1.076520e-005	-4.641732e-006
386	-4.763047e-006	1.274453e-005	7.334785e-006
387	-5.606851e-006	3.991615e-005	6.691247e-006
388	-5.997044e-006	5.468890e-005	6.388792e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
389	3.107038e-006	4.319623e-005	-5.741181e-006
390	3.556431e-006	3.235776e-005	-5.323141e-006
391	4.367571e-006	1.250308e-005	-4.609387e-006
392	-4.539754e-006	1.435585e-005	6.569405e-006
393	-5.353889e-006	3.931033e-005	5.989448e-006
394	-5.731249e-006	5.287906e-005	5.717348e-006
395	2.285420e-006	4.082030e-005	-5.508488e-006
396	2.693281e-006	3.106003e-005	-5.154146e-006
397	3.427802e-006	1.317702e-005	-4.549297e-006
398	-4.324174e-006	1.487216e-005	5.866245e-006
399	-5.104808e-006	3.769126e-005	5.347551e-006
400	-5.467386e-006	5.010000e-005	5.104643e-006
401	1.576753e-006	3.796009e-005	-5.273971e-006
402	1.946859e-006	2.912536e-005	-4.973888e-006
403	2.611977e-006	1.293512e-005	-4.461542e-006
404	-4.111114e-006	1.445162e-005	5.225663e-006
405	-4.855305e-006	3.522581e-005	4.765220e-006
406	-5.201569e-006	4.652336e-005	4.550029e-006
407	9.756458e-007	3.470728e-005	-5.034942e-006
408	1.311603e-006	2.666649e-005	-4.780966e-006
409	1.914156e-006	1.192870e-005	-4.347034e-006
410	-3.894537e-006	1.325341e-005	4.647558e-006
411	-4.600122e-006	3.208014e-005	4.241891e-006
412	-4.928924e-006	4.231915e-005	4.052732e-006
413	4.775090e-007	3.116079e-005	-4.789659e-006
414	7.827353e-007	2.380141e-005	-4.574794e-006
415	1.329149e-006	1.031061e-005	-4.207209e-006
416	-3.668060e-006	1.143832e-005	4.131159e-006
417	-4.333532e-006	2.842075e-005	3.776505e-006
418	-4.644054e-006	3.765701e-005	3.611566e-006
419	7.859934e-008	2.742535e-005	-4.537113e-006
420	3.563197e-007	2.065214e-005	-4.355369e-006
421	8.526237e-007	8.234441e-006	-4.043802e-006
422	-3.425371e-006	9.168547e-006	3.674916e-006
423	-4.049782e-006	2.441466e-005	3.367352e-006
424	-4.341491e-006	3.270661e-005	3.224750e-006
425	-2.238857e-007	2.361055e-005	-4.276855e-006
426	2.931573e-008	1.734399e-005	-4.123084e-006
427	4.812030e-007	5.854323e-006	-3.858676e-006
428	-3.160578e-006	6.606897e-006	3.276437e-006
429	-3.743490e-006	2.022877e-005	3.011959e-006
430	-4.016099e-006	2.763712e-005	2.889793e-006
431	-4.315055e-007	1.983072e-005	-4.009000e-006
432	-2.004027e-007	1.400542e-005	-3.878563e-006
433	2.125847e-007	3.325394e-006	-3.653647e-006
434	-2.868512e-006	3.915492e-006	2.932453e-006
435	-3.409994e-006	1.602866e-005	2.707043e-006
436	-3.663417e-006	2.261612e-005	2.603545e-006
437	-5.440638e-007	1.620557e-005	-3.734693e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
438	-3.340520e-007	1.076823e-005	-3.622617e-006
439	4.564330e-008	8.048137e-007	-3.430160e-006
440	-2.544997e-006	1.254064e-006	2.638819e-006
441	-3.045673e-006	1.197671e-005	2.448515e-006
442	-3.280057e-006	1.780800e-005	2.362352e-006
443	-5.614129e-007	1.286058e-005	-3.457196e-006
444	-3.715635e-007	7.767782e-006	-3.357353e-006
445	-1.969737e-008	-1.546584e-006	-3.188266e-006
446	-2.187245e-006	-1.222097e-006	2.390998e-006
447	-2.648386e-006	8.229917e-006	2.232014e-006
448	-2.865714e-006	1.337029e-005	2.161161e-006
449	-5.187676e-007	1.093639e-005	-3.281816e-006
450	-3.410457e-007	6.032785e-006	-3.188982e-006
451	-8.471696e-009	-2.902408e-006	-3.023376e-006
452	-1.941094e-006	-2.659277e-006	2.255821e-006
453	-2.376157e-006	6.064468e-006	2.123080e-006
454	-2.581194e-006	1.082199e-005	2.067385e-006
455	-4.536861e-007	9.211788e-006	-3.098782e-006
456	-2.628468e-007	4.493380e-006	-3.036891e-006
457	-1.092145e-007	1.574364e-007	-2.935103e-006
458	3.887286e-008	-4.075020e-006	-2.832116e-006
459	-1.678335e-006	-3.923131e-006	2.126887e-006
460	-1.889808e-006	7.693759e-008	2.088611e-006
461	-2.092251e-006	4.128190e-006	2.040150e-006
462	-2.283055e-006	8.532682e-006	1.982846e-006
463	-3.310559e-007	6.954557e-006	-2.819423e-006
464	-1.468965e-007	2.568113e-006	-2.739121e-006
465	1.590326e-007	-5.436634e-006	-2.613773e-006
466	-1.291663e-006	-5.451201e-006	1.975937e-006
467	-1.654005e-006	1.651463e-006	1.884612e-006
468	-1.830938e-006	5.523140e-006	1.846836e-006
469	-2.094007e-007	5.194305e-006	-2.553557e-006
470	-3.906801e-008	1.125533e-006	-2.492502e-006
471	2.543636e-007	-6.328885e-006	-2.392498e-006
472	-9.366527e-007	-6.515136e-006	1.822532e-006
473	-1.259436e-006	-2.390346e-007	1.749717e-006
474	-1.412322e-006	3.175610e-006	1.719121e-006
475	-1.058943e-007	3.874040e-006	-2.318870e-006
476	5.384471e-008	1.038121e-007	-2.271347e-006
477	3.335513e-007	-6.813791e-006	-2.188351e-006
478	-6.193966e-007	-7.146798e-006	1.677461e-006
479	-9.056936e-007	-1.584942e-006	1.623044e-006
480	-1.039907e-006	1.440653e-006	1.600227e-006
481	-2.033408e-008	2.928439e-006	-2.108295e-006
482	1.312702e-007	-5.545721e-007	-2.069885e-006
483	3.980710e-007	-6.948608e-006	-2.001425e-006
484	-3.416742e-007	-7.387125e-006	1.541859e-006
485	-5.934044e-007	-2.435666e-006	1.503272e-006
486	-7.112300e-007	2.585981e-007	1.487588e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
487	4.869798e-008	2.300005e-006	-1.916181e-006
488	1.932009e-007	-9.039022e-007	-1.885122e-006
489	4.480138e-007	-6.787196e-006	-1.829591e-006
490	-1.040432e-007	-7.283857e-006	1.416131e-006
491	-3.232211e-007	-2.847319e-006	1.390644e-006
492	-4.258135e-007	-4.325647e-007	1.380861e-006
493	1.017552e-007	1.936403e-006	-1.739391e-006
494	2.395495e-007	-9.959800e-007	-1.714734e-006
495	4.829324e-007	-6.381509e-006	-1.670794e-006
496	9.367716e-008	-6.889566e-006	1.300604e-006
497	-9.538849e-008	-2.881480e-006	1.285627e-006
498	-1.839119e-007	-6.994888e-007	1.280485e-006
499	1.389748e-007	1.788196e-006	-1.575873e-006
500	2.701100e-007	-8.807784e-007	-1.556862e-006
501	5.021131e-007	-5.782668e-006	-1.523344e-006
502	2.521389e-007	-6.260168e-006	1.195432e-006
503	9.023424e-008	-2.603992e-006	1.188600e-006
504	1.439676e-008	-6.134124e-007	1.186941e-006
505	1.603398e-007	1.807939e-006	-1.424116e-006
506	2.845986e-007	-6.069275e-007	-1.410070e-006
507	5.047493e-007	-5.041582e-006	-1.385913e-006
508	3.722227e-007	-5.453896e-006	1.100507e-006
509	2.340382e-007	-2.083945e-006	1.099758e-006
510	1.692775e-007	-2.492930e-007	1.100569e-006
511	1.657078e-007	1.949745e-006	-1.282953e-006
512	2.827055e-007	-2.219960e-007	-1.273293e-006
513	4.900740e-007	-4.209167e-006	-1.257484e-006
514	4.548249e-007	-4.530633e-006	1.015450e-006
515	3.365018e-007	-1.392907e-006	1.019076e-006
516	2.809841e-007	3.149793e-007	1.021494e-006
517	1.546612e-007	2.168841e-006	-1.151244e-006
518	2.641386e-007	2.274261e-007	-1.145733e-006
519	4.574664e-007	-3.336223e-006	-1.137303e-006
520	5.006872e-007	-3.551555e-006	9.396665e-007
521	3.980348e-007	-6.044137e-007	9.463125e-007
522	3.494682e-007	9.988851e-007	9.493921e-007
523	1.263579e-007	2.420780e-006	-1.027380e-006
524	2.286536e-007	6.957971e-007	-1.026600e-006
525	4.065341e-007	-2.473030e-006	-1.024967e-006
526	5.102921e-007	-2.578976e-006	8.726187e-007
527	4.188346e-007	2.063088e-007	8.808329e-007
528	3.735102e-007	1.718213e-006	8.826129e-007
529	8.183256e-008	2.661789e-006	-9.111542e-007
530	1.761240e-007	1.138754e-006	-9.139150e-007
531	3.370860e-007	-1.668720e-006	-9.217429e-007
532	4.839576e-007	-1.676304e-006	8.159548e-007
533	3.986429e-007	9.624285e-007	8.198527e-007
534	3.542366e-007	2.384934e-006	8.197438e-007
535	6.287823e-008	2.755205e-006	-8.714448e-007

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
536	1.509809e-007	1.301454e-006	-8.674692e-007
537	2.279773e-007	-3.121993e-008	-8.801687e-007
538	3.031961e-007	-1.377036e-006	-8.884053e-007
539	4.637050e-007	-1.350594e-006	8.025015e-007
540	4.207592e-007	-4.687745e-008	7.977356e-007
541	3.787689e-007	1.234388e-006	7.916353e-007
542	3.393100e-007	2.626917e-006	8.016992e-007
543	1.103108e-008	2.933951e-006	-7.722306e-007
544	8.590647e-008	1.642175e-006	-7.766689e-007
545	2.220284e-007	-7.321333e-007	-7.869806e-007
546	4.061924e-007	-6.474432e-007	7.407880e-007
547	3.259595e-007	1.795181e-006	7.518736e-007
548	2.913613e-007	3.117251e-006	7.541123e-007
549	-3.981080e-008	3.050522e-006	-6.834719e-007
550	2.741089e-008	1.900923e-006	-6.885226e-007
551	1.474053e-007	-2.066060e-007	-6.997283e-007
552	3.538548e-007	-8.793801e-008	6.907694e-007
553	2.771346e-007	2.210819e-006	7.059420e-007
554	2.419784e-007	3.459332e-006	7.115868e-007
555	-8.476199e-008	3.104558e-006	-6.023181e-007
556	-2.504903e-008	2.080571e-006	-6.079961e-007
557	8.005293e-008	2.051212e-007	-6.209167e-007
558	3.056889e-007	3.417472e-007	6.446200e-007
559	2.325602e-007	2.496385e-006	6.616964e-007
560	1.984137e-007	3.667546e-006	6.690522e-007
561	-1.239283e-007	3.100020e-006	-5.288084e-007
562	-7.155359e-008	2.185375e-006	-5.352564e-007
563	2.013233e-008	5.104985e-007	-5.494219e-007
564	2.613919e-007	6.545391e-007	6.014033e-007
565	1.920840e-007	2.666028e-006	6.199214e-007
566	1.596353e-007	3.759533e-006	6.281515e-007
567	-1.577712e-007	3.041381e-006	-4.628225e-007
568	-1.121298e-007	2.220881e-006	-4.698599e-007
569	-3.239130e-008	7.183231e-007	-4.847300e-007
570	2.208898e-007	8.627625e-007	5.609279e-007
571	1.556012e-007	2.733183e-006	5.805981e-007
572	1.250280e-007	3.750069e-006	5.894638e-007
573	-1.864632e-007	2.933737e-006	-4.039534e-007
574	-1.468305e-007	2.193704e-006	-4.113304e-007
575	-7.765917e-008	8.383525e-007	-4.264478e-007
576	1.842359e-007	9.783854e-007	5.230335e-007
577	1.230999e-007	2.710803e-006	5.435784e-007
578	9.447024e-008	3.652721e-006	5.529364e-007
579	-2.100679e-007	2.782987e-006	-3.517537e-007
580	-1.757436e-007	2.111316e-006	-3.592480e-007
581	-1.158774e-007	8.810090e-007	-3.742481e-007
582	1.515584e-007	1.013209e-006	4.875049e-007
583	9.463933e-008	2.611543e-006	5.086530e-007
584	6.798487e-008	3.480605e-006	5.183670e-007

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
585	-2.286411e-007	2.595789e-006	-3.058292e-007
586	-1.989845e-007	1.981860e-006	-3.132642e-007
587	-1.472850e-007	8.571691e-007	-3.278648e-007
588	1.230154e-007	9.789891e-007	4.540688e-007
589	7.031747e-008	2.447894e-006	4.755606e-007
590	4.564315e-008	3.246612e-006	4.854996e-007
591	-2.422528e-007	2.379442e-006	-2.658546e-007
592	-2.166845e-007	1.814013e-006	-2.730990e-007
593	-1.721276e-007	7.780281e-007	-2.870919e-007
594	9.875961e-008	8.874882e-007	4.224075e-007
595	5.024167e-008	2.232260e-006	4.439988e-007
596	2.753238e-008	2.963498e-006	4.540401e-007
597	-2.509843e-007	2.141765e-006	-2.315647e-007
598	-2.289774e-007	1.616881e-006	-2.385326e-007
599	-1.906345e-007	6.550282e-007	-2.517791e-007
600	7.891092e-008	7.504710e-007	3.921795e-007
601	3.450605e-008	1.976987e-006	4.136399e-007
602	1.373605e-008	2.643934e-006	4.236694e-007
603	-2.549194e-007	1.891002e-006	-2.027430e-007
604	-2.359888e-007	1.399924e-006	-2.093912e-007
605	-2.030002e-007	4.998386e-007	-2.218256e-007
606	6.354071e-008	5.796516e-007	3.630435e-007
607	2.317910e-008	1.694355e-006	3.841508e-007
608	4.322409e-009	2.300516e-006	3.940605e-007
609	-2.541331e-007	1.635758e-006	-1.792261e-007
610	-2.378268e-007	1.172907e-006	-1.855271e-007
611	-2.093674e-007	3.243720e-007	-1.971683e-007
612	5.266780e-008	3.866069e-007	3.346845e-007
613	1.630295e-008	1.396539e-006	3.552134e-007
614	-6.652303e-010	1.945748e-006	3.648922e-007
615	-2.486859e-007	1.384975e-006	-1.609583e-007
616	-2.345798e-007	9.458436e-007	-1.667982e-007
617	-2.098111e-007	1.408238e-007	-1.777575e-007
618	4.627282e-008	1.826745e-007	3.068425e-007
619	1.390368e-008	1.095566e-006	3.265405e-007
620	-1.239316e-009	1.591983e-006	3.358466e-007
621	-2.387226e-007	1.147961e-006	-1.480197e-007
622	-2.263477e-007	7.289237e-007	-1.530927e-007
623	-2.043025e-007	-3.829434e-008	-1.634747e-007
624	4.436776e-008	-2.113765e-008	2.793895e-007
625	1.600935e-008	8.032795e-007	2.978785e-007
626	2.601545e-009	1.251353e-006	3.065729e-007
627	-2.244259e-007	9.326185e-007	-1.406941e-007
628	-2.138713e-007	5.341491e-007	-1.448664e-007
629	-1.937090e-007	-1.946054e-007	-1.542859e-007
630	4.680791e-008	-1.936573e-007	2.548275e-007
631	2.171771e-008	5.664181e-007	2.724589e-007
632	1.005050e-008	9.810937e-007	2.812189e-007
633	-2.069754e-007	7.402800e-007	-1.366503e-007

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
634	-1.976962e-007	3.599086e-007	-1.424021e-007
635	-1.875188e-007	1.010370e-008	-1.453665e-007
636	-1.772323e-007	-3.334465e-007	-1.479695e-007
637	5.249774e-008	-3.417073e-007	2.292356e-007
638	4.224709e-008	7.143050e-009	2.387554e-007
639	3.174823e-008	3.607409e-007	2.476335e-007
640	2.043055e-008	7.453481e-007	2.552220e-007
641	-1.877735e-007	5.746551e-007	-1.344733e-007
642	-1.777636e-007	2.137679e-007	-1.389931e-007
643	-1.607939e-007	-4.465423e-007	-1.472650e-007
644	6.128374e-008	-4.606711e-007	2.068464e-007
645	4.193291e-008	1.905589e-007	2.214354e-007
646	3.206561e-008	5.462257e-007	2.294894e-007
647	-1.686310e-007	4.396444e-007	-1.329853e-007
648	-1.600422e-007	9.669774e-008	-1.373718e-007
649	-1.446863e-007	-5.327175e-007	-1.455697e-007
650	6.896171e-008	-5.506064e-007	1.857729e-007
651	5.197389e-008	5.575437e-008	1.985967e-007
652	4.348800e-008	3.862131e-007	2.053885e-007
653	-1.513285e-007	3.335863e-007	-1.320627e-007
654	-1.437728e-007	6.695310e-009	-1.362359e-007
655	-1.297134e-007	-5.938417e-007	-1.439646e-007
656	7.605775e-008	-6.138536e-007	1.667160e-007
657	6.138109e-008	-4.650957e-008	1.781113e-007
658	5.410138e-008	2.624887e-007	1.839699e-007
659	-1.356875e-007	2.539200e-007	-1.314627e-007
660	-1.288664e-007	-5.827876e-008	-1.353462e-007
661	-1.160255e-007	-6.319159e-007	-1.425331e-007
662	8.264811e-008	-6.527143e-007	1.496661e-007
663	7.010943e-008	-1.189831e-007	1.597402e-007
664	6.390084e-008	1.716673e-007	1.648819e-007
665	-1.215075e-007	1.983456e-007	-1.310606e-007
666	-1.153276e-007	-1.003072e-007	-1.346236e-007
667	-1.036729e-007	-6.490282e-007	-1.412346e-007
668	8.874281e-008	-6.694636e-007	1.345313e-007
669	7.816459e-008	-1.643568e-007	1.433587e-007
670	7.292731e-008	1.106871e-007	1.478596e-007
671	-1.087318e-007	1.647171e-007	-1.308011e-007
672	-1.031703e-007	-1.215023e-007	-1.340229e-007
673	-9.268581e-008	-6.473264e-007	-1.400231e-007
674	9.433650e-008	-6.663646e-007	1.212204e-007
675	8.555038e-008	-1.852843e-007	1.288695e-007
676	8.119811e-008	7.665380e-008	1.327685e-007
677	-9.735310e-008	1.509370e-007	-1.306567e-007
678	-9.240534e-008	-1.239873e-007	-1.335149e-007
679	-8.308559e-008	-6.289953e-007	-1.388623e-007
680	9.941468e-008	-6.456846e-007	1.096522e-007
681	9.226089e-008	-1.844045e-007	1.161901e-007
682	8.871288e-008	6.672284e-008	1.195209e-007

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
683	-8.737088e-008	1.549366e-007	-1.306140e-007
684	-8.303824e-008	-1.098758e-007	-1.330835e-007
685	-7.488655e-008	-5.962334e-007	-1.377288e-007
686	1.039534e-007	-6.097115e-007	9.975639e-008
687	9.827837e-008	-1.643648e-007	1.052512e-007
688	9.545710e-008	7.805100e-008	1.080473e-007
689	-7.878159e-008	1.746871e-007	-1.306692e-007
690	-7.506852e-008	-8.125055e-008	-1.327246e-007
691	-6.809408e-008	-5.512279e-007	-1.366131e-007
692	1.079173e-007	-5.607725e-007	9.147299e-008
693	1.035716e-007	-1.278459e-007	9.599555e-008
694	1.014014e-007	1.077653e-007	9.829164e-008
695	-7.157833e-008	2.082093e-007	-1.308187e-007
696	-6.848885e-008	-4.014374e-008	-1.324419e-007
697	-6.269956e-008	-4.961225e-007	-1.355202e-007
698	1.112580e-007	-5.012553e-007	8.475197e-008
699	1.080939e-007	-7.758925e-008	8.837848e-008
700	1.064972e-007	1.529308e-007	9.021120e-008
701	-6.575331e-008	2.535671e-007	-1.310402e-007
702	-6.328287e-008	1.147783e-008	-1.322357e-007
703	-5.866956e-008	-4.329739e-007	-1.344692e-007
704	1.139127e-007	-4.336313e-007	7.955223e-008
705	1.117781e-007	-1.642984e-008	8.236731e-008
706	1.106587e-007	2.105027e-007	8.377598e-008
707	-6.130394e-008	3.088218e-007	-1.312564e-007
708	-5.941906e-008	7.171071e-008	-1.320739e-007
709	-5.592528e-008	-3.636887e-007	-1.334912e-007
710	1.158094e-007	-3.604744e-007	7.583997e-008
711	1.145221e-007	5.266339e-008	7.793368e-008
712	1.137077e-007	2.772289e-007	7.896374e-008
713	-5.825656e-008	3.719196e-007	-1.312936e-007
714	-5.682642e-008	1.386729e-007	-1.318135e-007
715	-5.431820e-008	-2.899222e-007	-1.326453e-007
716	1.169160e-007	-2.844589e-007	7.361672e-008
717	1.161202e-007	1.265258e-007	7.499827e-008
718	1.153164e-007	3.494562e-007	7.575339e-008
719	-5.682073e-008	4.404617e-007	-1.309212e-007
720	-5.529193e-008	2.103741e-007	-1.309884e-007
721	-5.455371e-008	-1.117111e-009	-1.316590e-007
722	-5.376710e-008	-2.129106e-007	-1.322580e-007
723	1.176305e-007	-2.082996e-007	7.330669e-008
724	1.168141e-007	-2.458618e-009	7.324692e-008
725	1.158997e-007	2.016863e-007	7.306346e-008
726	1.154416e-007	4.230697e-007	7.423110e-008

Prueba de carga 6

Desplazamientos de nudos

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
1	1.184941e-004	3.844446e-004	1.688814e-005
2	1.179107e-004	1.846065e-004	1.646029e-005
3	1.171386e-004	1.111620e-006	1.571598e-005
4	1.162626e-004	-1.808120e-004	1.497168e-005
5	-1.163146e-004	-1.809008e-004	1.505367e-005
6	-1.171891e-004	1.103918e-006	1.579749e-005
7	-1.179583e-004	1.846744e-004	1.654132e-005
8	-1.185408e-004	3.845922e-004	1.696916e-005
9	1.191397e-004	4.175696e-004	1.694797e-005
10	1.185525e-004	2.166061e-004	1.617718e-005
11	1.176038e-004	-1.521478e-004	1.428257e-005
12	-1.176531e-004	-1.520728e-004	1.437034e-005
13	-1.186006e-004	2.168337e-004	1.626085e-005
14	-1.191842e-004	4.178751e-004	1.702871e-005
15	1.205419e-004	4.508641e-004	1.664861e-005
16	1.200798e-004	2.474699e-004	1.520759e-005
17	1.192016e-004	-1.261407e-004	1.233144e-005
18	-1.192465e-004	-1.258782e-004	1.243782e-005
19	-1.201206e-004	2.478661e-004	1.529759e-005
20	-1.205765e-004	4.513233e-004	1.672727e-005
21	1.228429e-004	4.829784e-004	1.548767e-005
22	1.223853e-004	2.756923e-004	1.338445e-005
23	1.214978e-004	-1.050891e-004	9.281147e-006
24	-1.215265e-004	-1.045883e-004	9.419694e-006
25	-1.224052e-004	2.762683e-004	1.347960e-005
26	-1.228515e-004	4.835771e-004	1.555612e-005
27	1.260311e-004	5.122066e-004	1.344045e-005
28	1.255505e-004	2.995480e-004	1.064728e-005
29	1.246380e-004	-9.107289e-005	5.195523e-006
30	-1.246273e-004	-9.025814e-005	5.376626e-006
31	-1.255242e-004	3.003035e-004	1.073724e-005
32	-1.259864e-004	5.128999e-004	1.347774e-005
33	1.301440e-004	5.368338e-004	1.050613e-005
34	1.296382e-004	3.172421e-004	6.982627e-006
35	1.286921e-004	-8.608903e-005	9.897241e-008
36	-1.286030e-004	-8.487005e-005	3.247432e-007
37	-1.295243e-004	3.181416e-004	7.041638e-006
38	-1.300022e-004	5.375140e-004	1.047222e-005
39	1.352319e-004	5.551488e-004	6.690639e-006
40	1.347009e-004	3.269752e-004	2.397644e-006
41	1.337134e-004	-9.210032e-005	-5.996086e-006
42	-1.334863e-004	-9.039500e-005	-5.739468e-006
43	-1.344371e-004	3.279096e-004	2.376355e-006
44	-1.349285e-004	5.555990e-004	6.518150e-006
45	1.413322e-004	5.654529e-004	1.997694e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
46	1.407907e-004	3.269736e-004	-3.089552e-006
47	1.397570e-004	-1.110468e-004	-1.307729e-005
48	-1.393063e-004	-1.088222e-004	-1.283084e-005
49	-1.402888e-004	3.277043e-004	-3.274072e-006
50	-1.407761e-004	5.652829e-004	1.581474e-006
51	1.484149e-004	5.660087e-004	-3.617977e-006
52	1.479524e-004	3.155068e-004	-9.453700e-006
53	1.468932e-004	-1.448395e-004	-2.112588e-005
54	-1.461052e-004	-1.421791e-004	-2.097334e-005
55	-1.470949e-004	3.155890e-004	-9.929098e-006
56	-1.474798e-004	5.645659e-004	-4.435839e-006
57	1.563582e-004	5.549190e-004	-1.020630e-005
58	1.561389e-004	2.908979e-004	-1.666626e-005
59	1.552875e-004	-1.953425e-004	-3.011126e-005
60	-1.540305e-004	-1.925479e-004	-3.019871e-005
61	-1.547712e-004	2.895832e-004	-1.761568e-005
62	-1.548727e-004	5.511691e-004	-1.164632e-005
63	1.657752e-004	5.309006e-004	-1.673644e-005
64	1.644995e-004	2.515200e-004	-2.470716e-005
65	1.654134e-004	-5.421514e-006	-3.234503e-005
66	1.658890e-004	-2.643419e-004	-3.998290e-005
67	-1.641062e-004	-2.620761e-004	-4.053977e-005
68	-1.634407e-004	-6.036501e-006	-3.345864e-005
69	-1.623538e-004	2.476397e-004	-2.637751e-005
70	-1.636075e-004	5.233744e-004	-1.897330e-005
71	1.722796e-004	5.087601e-004	-2.000279e-005
72	1.720752e-004	2.178700e-004	-2.924454e-005
73	1.713837e-004	-3.183761e-004	-4.582933e-005
74	-1.689957e-004	-3.170134e-004	-4.673327e-005
75	-1.695495e-004	2.115525e-004	-3.142942e-005
76	-1.696355e-004	4.980438e-004	-2.278818e-005
77	1.796696e-004	4.829813e-004	-2.247194e-005
78	1.794135e-004	1.796003e-004	-3.212922e-005
79	1.782176e-004	-3.787225e-004	-5.005022e-005
80	-1.752422e-004	-3.786556e-004	-5.124319e-005
81	-1.763612e-004	1.702532e-004	-3.474635e-005
82	-1.765311e-004	4.683908e-004	-2.577404e-005
83	1.920456e-004	4.427639e-004	-2.313206e-005
84	1.914048e-004	1.186375e-004	-3.339897e-005
85	1.900356e-004	-4.769084e-004	-5.325264e-005
86	-1.860943e-004	-4.793685e-004	-5.483046e-005
87	-1.874230e-004	1.038062e-004	-3.653755e-005
88	-1.880290e-004	4.211683e-004	-2.703244e-005
89	2.053624e-004	4.054874e-004	-1.968601e-005
90	2.046238e-004	5.892987e-005	-3.089945e-005
91	2.031684e-004	-5.777587e-004	-5.278384e-005
92	-1.982035e-004	-5.834417e-004	-5.473463e-005
93	-1.996570e-004	3.774670e-005	-3.444093e-005
94	-2.004093e-004	3.759227e-004	-2.400050e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
95	2.198777e-004	3.785995e-004	-1.241660e-005
96	2.191320e-004	7.516674e-006	-2.465607e-005
97	2.175996e-004	-6.743598e-004	-4.859803e-005
98	-2.116307e-004	-6.839915e-004	-5.095376e-005
99	-2.132124e-004	-2.066093e-005	-2.847972e-005
100	-2.140294e-004	3.404860e-004	-1.693882e-005
101	2.356114e-004	3.690656e-004	-1.530500e-006
102	2.349142e-004	-2.864834e-005	-1.473693e-005
103	2.333060e-004	-7.597097e-004	-4.064666e-005
104	-2.264627e-004	-7.740988e-004	-4.344795e-005
105	-2.281892e-004	-6.419393e-005	-1.867750e-005
106	-2.290316e-004	3.222948e-004	-5.986481e-006
107	2.523781e-004	3.833444e-004	1.263899e-005
108	2.518343e-004	-4.282840e-005	-1.310256e-006
109	2.501529e-004	-8.266756e-004	-2.883674e-005
110	-2.427114e-004	-8.466895e-004	-3.208382e-005
111	-2.446015e-004	-8.570970e-005	-5.101537e-006
112	-2.453834e-004	3.284705e-004	8.652752e-006
113	2.696835e-004	4.268799e-004	2.936238e-005
114	2.694771e-004	-2.880756e-005	1.522526e-005
115	2.677292e-004	-8.678142e-004	-1.292300e-005
116	-2.601521e-004	-8.942453e-004	-1.650611e-005
117	-2.622230e-004	-7.832979e-005	1.202171e-005
118	-2.627772e-004	3.654370e-004	2.644961e-005
119	2.864673e-004	5.028661e-004	4.699683e-005
120	2.867724e-004	1.839600e-005	3.392538e-005
121	2.849713e-004	-8.748356e-004	7.773882e-006
122	-2.779462e-004	-9.081109e-004	4.172926e-006
123	-2.802059e-004	-3.600727e-005	3.200447e-005
124	-2.803656e-004	4.378200e-004	4.603512e-005
125	3.009778e-004	6.093048e-004	6.163111e-005
126	3.018513e-004	9.985427e-005	5.098780e-005
127	3.000241e-004	-8.406633e-004	2.944833e-005
128	-2.944855e-004	-8.803354e-004	2.649215e-005
129	-2.969175e-004	4.396091e-005	5.139068e-005
130	-2.966136e-004	5.456320e-004	6.383632e-005
131	3.113633e-004	7.345759e-004	6.692407e-005
132	3.131562e-004	2.068037e-004	6.053745e-005
133	3.113919e-004	-7.694731e-004	4.666726e-005
134	-3.084996e-004	-8.134113e-004	4.554376e-005
135	-3.110033e-004	1.551650e-004	6.472872e-005
136	-3.098553e-004	6.799323e-004	7.389267e-005
137	3.142226e-004	8.520027e-004	5.307948e-005
138	3.182172e-004	3.179134e-004	5.404676e-005
139	3.171118e-004	-6.752563e-004	5.113790e-005
140	-3.181202e-004	-7.184461e-004	5.379120e-005
141	-3.200834e-004	2.794491e-004	6.394164e-005
142	-3.168257e-004	8.174329e-004	6.679941e-005
143	3.062569e-004	9.129841e-004	7.656438e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
144	3.146780e-004	3.908042e-004	1.766555e-005
145	3.188909e-004	-5.990739e-004	2.231783e-005
146	-3.247060e-004	-6.319218e-004	3.173184e-005
147	-3.217388e-004	3.783682e-004	3.553646e-005
148	-3.141782e-004	9.134818e-004	3.026410e-005
149	3.001539e-004	8.600965e-004	-6.050020e-005
150	2.897942e-004	3.589234e-004	-5.824691e-005
151	3.138348e-004	-1.033255e-004	-5.513676e-005
152	3.367545e-004	-6.196583e-004	-5.202661e-005
153	-3.460728e-004	-6.256944e-004	-3.149574e-005
154	-3.256595e-004	-9.365714e-005	-3.080003e-005
155	-3.038978e-004	3.896621e-004	-3.010431e-005
156	-3.129703e-004	9.133292e-004	-2.878554e-005
157	2.979655e-004	7.572184e-004	-1.058531e-004
158	3.064498e-004	2.499520e-004	-1.129443e-004
159	3.145676e-004	-7.211280e-004	-1.077771e-004
160	-3.292384e-004	-6.959839e-004	-7.829724e-005
161	-3.216311e-004	3.199913e-004	-7.879989e-005
162	-3.132274e-004	8.531092e-004	-6.982940e-005
163	3.010268e-004	6.534614e-004	-1.337359e-004
164	3.074588e-004	1.261808e-004	-1.425863e-004
165	3.069734e-004	-8.663015e-004	-1.440836e-004
166	-3.246213e-004	-8.280621e-004	-1.093515e-004
167	-3.253687e-004	1.610254e-004	-1.164641e-004
168	-3.205705e-004	6.923952e-004	-1.156840e-004
169	3.052443e-004	5.012162e-004	-1.630154e-004
170	3.090096e-004	-4.820724e-005	-1.667006e-004
171	3.071377e-004	-1.069383e-003	-1.675820e-004
172	-3.167666e-004	-1.107250e-003	-1.200444e-004
173	-3.203184e-004	-1.687103e-004	-1.328930e-004
174	-3.194640e-004	3.390180e-004	-1.390558e-004
175	3.046553e-004	2.751317e-004	-1.706124e-004
176	3.071783e-004	-2.735222e-004	-1.670998e-004
177	3.064160e-004	-1.288836e-003	-1.586155e-004
178	-3.040913e-004	-1.367899e-003	-9.969338e-005
179	-3.091015e-004	-4.593627e-004	-1.197030e-004
180	-3.093786e-004	3.292921e-005	-1.299889e-004
181	2.992736e-004	5.434631e-005	-1.562893e-004
182	3.017434e-004	-4.816389e-004	-1.475887e-004
183	3.023291e-004	-1.472401e-003	-1.296658e-004
184	-2.853076e-004	-1.573547e-003	-6.440515e-005
185	-2.913003e-004	-7.094903e-004	-9.136672e-005
186	-2.925253e-004	-2.406370e-004	-1.051319e-004
187	2.904997e-004	-1.329087e-004	-1.301119e-004
188	2.929526e-004	-6.482721e-004	-1.179470e-004
189	2.945019e-004	-1.600157e-003	-9.343529e-005
190	-2.631751e-004	-1.710441e-003	-2.592619e-005
191	-2.695908e-004	-9.002967e-004	-5.670607e-005
192	-2.715709e-004	-4.600774e-004	-7.243804e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
193	2.790392e-004	-2.725788e-004	-9.874819e-005
194	2.813311e-004	-7.617330e-004	-8.420729e-005
195	2.835540e-004	-1.664326e-003	-5.514233e-005
196	-2.395262e-004	-1.775605e-003	1.168770e-005
197	-2.460208e-004	-1.024567e-003	-2.082562e-005
198	-2.485740e-004	-6.158894e-004	-3.742635e-005
199	2.656430e-004	-3.603064e-004	-6.698218e-005
200	2.676523e-004	-8.199496e-004	-5.129125e-005
201	2.702093e-004	-1.667192e-003	-2.022002e-005
202	-2.162375e-004	-1.774642e-003	4.416261e-005
203	-2.224716e-004	-1.083648e-003	1.230959e-005
204	-2.253517e-004	-7.071528e-004	-3.997401e-006
205	2.511865e-004	-3.981296e-004	-3.763852e-005
206	2.529474e-004	-8.271215e-004	-2.171682e-005
207	2.555966e-004	-1.617247e-003	9.526911e-006
208	-1.946099e-004	-1.717999e-003	7.073397e-005
209	-2.003755e-004	-1.084100e-003	4.109460e-005
210	-2.033009e-004	-7.384310e-004	2.584112e-005
211	2.362232e-004	-3.915822e-004	-1.211904e-005
212	2.378381e-004	-7.900044e-004	3.595496e-006
213	2.404740e-004	-1.523495e-003	3.423644e-005
214	-1.750721e-004	-1.615457e-003	9.231183e-005
215	-1.803155e-004	-1.034044e-003	6.531047e-005
216	-1.831104e-004	-7.168796e-004	5.137472e-005
217	2.209608e-004	-3.480236e-004	8.790650e-006
218	2.225854e-004	-7.164715e-004	2.414560e-005
219	2.251668e-004	-1.394785e-003	5.383088e-005
220	-1.576672e-004	-1.475657e-003	1.093798e-004
221	-1.624026e-004	-9.418321e-004	8.497898e-005
222	-1.650357e-004	-6.505454e-004	7.242883e-005
223	2.053400e-004	-2.759214e-004	2.463455e-005
224	2.072666e-004	-6.150387e-004	3.964061e-005
225	2.098802e-004	-1.240103e-003	6.816874e-005
226	-1.422340e-004	-1.306584e-003	1.222031e-004
227	-1.465655e-004	-8.157123e-004	1.001977e-004
228	-1.491600e-004	-5.476143e-004	8.904354e-005
229	1.902130e-004	-1.887191e-004	3.436398e-005
230	1.922912e-004	-4.985220e-004	4.950695e-005
231	1.951608e-004	-1.068955e-003	7.713229e-005
232	-1.282687e-004	-1.114907e-003	1.309003e-004
233	-1.322782e-004	-6.580933e-004	1.115341e-004
234	-1.345926e-004	-4.089759e-004	1.021222e-004
235	1.753926e-004	-8.869680e-005	3.987972e-005
236	1.774611e-004	-3.687931e-004	5.466013e-005
237	1.808397e-004	-8.835241e-004	8.096744e-005
238	-1.158984e-004	-9.139879e-004	1.352951e-004
239	-1.198790e-004	-4.832401e-004	1.182180e-004
240	-1.219224e-004	-2.487132e-004	1.100845e-004
241	1.602812e-004	2.036495e-005	4.117890e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
242	1.625789e-004	-2.306492e-004	5.527564e-005
243	1.665093e-004	-6.917438e-004	7.989759e-005
244	-1.053696e-004	-7.130544e-004	1.352610e-004
245	-1.094276e-004	-3.044836e-004	1.200012e-004
246	-1.113712e-004	-8.214019e-005	1.127558e-004
247	1.447050e-004	1.302076e-004	3.797841e-005
248	1.475388e-004	-9.287563e-005	5.130375e-005
249	1.520106e-004	-5.034009e-004	7.396759e-005
250	-9.673553e-005	-5.195262e-004	1.308036e-004
251	-1.008653e-004	-1.304995e-004	1.169592e-004
252	-1.026960e-004	8.102864e-005	1.102194e-004
253	1.284171e-004	2.321707e-004	3.020491e-005
254	1.319260e-004	3.574289e-005	4.276019e-005
255	1.373881e-004	-3.281516e-004	6.312112e-005
256	-9.016758e-005	-3.409334e-004	1.220194e-004
257	-9.409008e-005	3.004897e-005	1.091514e-004
258	-9.569668e-005	2.310306e-004	1.024522e-004
259	1.127727e-004	3.184748e-004	1.901041e-005
260	1.138733e-004	1.463910e-004	3.006034e-005
261	1.193644e-004	-1.158278e-005	3.846839e-005
262	1.241331e-004	-1.755914e-004	4.681767e-005
263	-8.670191e-005	-1.847600e-004	1.093481e-004
264	-8.744120e-005	-6.626063e-006	1.027890e-004
265	-8.812827e-005	1.685620e-004	9.638347e-005
266	-9.070696e-005	3.588195e-004	9.078689e-005
267	1.019069e-004	3.696679e-004	1.006090e-005
268	1.048491e-004	2.110800e-004	1.856220e-005
269	1.108464e-004	-8.423222e-005	3.492679e-005
270	-8.294256e-005	-8.958469e-005	9.821748e-005
271	-8.694394e-005	2.511191e-004	8.639866e-005
272	-8.831332e-005	4.353371e-004	8.118158e-005
273	9.211042e-005	4.095791e-004	6.914737e-007
274	9.493608e-005	2.627988e-004	8.578916e-006
275	9.986596e-005	-8.556362e-006	2.369687e-005
276	-8.040846e-005	-9.398287e-006	8.774118e-005
277	-8.501892e-005	3.184206e-004	7.655456e-005
278	-8.676404e-005	4.964834e-004	7.141315e-005
279	7.890697e-005	4.465692e-004	-1.107177e-005
280	8.134449e-005	3.154707e-004	-3.713319e-006
281	8.586532e-005	7.436911e-005	9.600004e-006
282	-7.738346e-005	7.997147e-005	7.379118e-005
283	-8.215516e-005	3.886652e-004	6.327038e-005
284	-8.425328e-005	5.566429e-004	5.831108e-005
285	6.669587e-005	4.641789e-004	-2.079417e-005
286	6.892530e-005	3.469034e-004	-1.415349e-005
287	7.320668e-005	1.316615e-004	-2.504588e-006
288	-7.471684e-005	1.429532e-004	6.093763e-005
289	-7.954759e-005	4.322380e-004	5.102494e-005
290	-8.175953e-005	5.896908e-004	4.631569e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
291	5.565170e-005	4.651497e-004	-2.874642e-005
292	5.774575e-005	3.597511e-004	-2.290108e-005
293	6.178160e-005	1.664527e-004	-1.275236e-005
294	-7.223246e-005	1.820651e-004	4.930142e-005
295	-7.710149e-005	4.517104e-004	3.994573e-005
296	-7.935067e-005	5.984498e-004	3.549546e-005
297	4.583366e-005	4.519834e-004	-3.515911e-005
298	4.779890e-005	3.566045e-004	-3.007418e-005
299	5.156574e-005	1.817522e-004	-2.127515e-005
300	-6.977703e-005	2.000615e-004	3.896572e-005
301	-7.467710e-005	4.498892e-004	3.012402e-005
302	-7.694866e-005	5.858156e-004	2.591952e-005
303	3.724421e-005	4.270434e-004	-4.016753e-005
304	3.907396e-005	3.400052e-004	-3.577269e-005
305	4.255528e-005	1.804894e-004	-2.818204e-005
306	-6.721294e-005	1.998713e-004	2.998092e-005
307	-7.213597e-005	4.297838e-004	2.162425e-005
308	-7.442565e-005	5.548513e-004	1.765374e-005
309	2.987156e-005	3.926372e-004	-4.386072e-005
310	3.156299e-005	3.124616e-004	-4.007984e-005
311	3.475365e-005	1.655504e-004	-3.355965e-005
312	-6.441960e-005	1.845462e-004	2.237239e-005
313	-6.935142e-005	3.945653e-004	1.448756e-005
314	-7.165350e-005	5.087935e-004	1.074588e-005
315	2.370403e-005	3.510521e-004	-4.630515e-005
316	2.526065e-005	2.764658e-004	-4.306258e-005
317	2.816798e-005	1.398057e-004	-3.747568e-005
318	-6.129358e-005	1.572190e-004	1.614713e-005
319	-6.621158e-005	3.475249e-004	8.735245e-006
320	-6.851644e-005	4.510188e-004	5.223800e-006
321	1.873647e-005	3.045743e-004	-4.755102e-005
322	2.016418e-005	2.345086e-004	-4.477290e-005
323	2.280816e-005	1.061302e-004	-3.998210e-005
324	-5.774736e-005	1.210681e-004	1.129858e-005
325	-6.261979e-005	2.920351e-004	4.372251e-006
326	-6.491340e-005	3.850043e-004	1.098770e-006
327	1.498397e-005	2.555115e-004	-4.763401e-005
328	1.627419e-005	1.890913e-004	-4.525005e-005
329	1.868617e-005	6.741775e-005	-4.111702e-005
330	-5.370748e-005	7.928769e-005	7.809345e-006
331	-5.849430e-005	2.315130e-004	1.390739e-006
332	-6.075926e-005	3.142941e-004	-1.623562e-006
333	1.250327e-005	2.062321e-004	-4.658173e-005
334	1.360017e-005	1.427349e-004	-4.452650e-005
335	1.581105e-005	2.659216e-005	-4.090197e-005
336	-4.911068e-005	3.505999e-005	5.650786e-006
337	-5.377079e-005	1.693892e-004	-2.240136e-007
338	-5.599069e-005	2.424965e-004	-2.911405e-006
339	1.132312e-005	1.591800e-004	-4.444758e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
340	1.219833e-005	9.798582e-005	-4.265932e-005
341	1.415193e-005	-1.338372e-005	-3.931335e-005
342	-4.387903e-005	-8.471512e-006	4.764653e-006
343	-4.842730e-005	1.090794e-004	-4.690572e-007
344	-5.058198e-005	1.733082e-004	-2.712607e-006
345	1.092185e-005	1.165378e-004	-4.140402e-005
346	1.243206e-005	5.742538e-005	-3.994572e-005
347	1.292205e-005	3.003624e-006	-3.798930e-005
348	1.338164e-005	-4.950730e-005	-3.607220e-005
349	-3.772754e-005	-4.822685e-005	4.903350e-006
350	-4.028926e-005	2.211822e-006	2.894930e-006
351	-4.268757e-005	5.396185e-005	8.535238e-007
352	-4.456554e-005	1.101597e-004	-1.515441e-006
353	1.105108e-005	8.978772e-005	-3.901615e-005
354	1.228205e-005	3.256696e-005	-3.705342e-005
355	1.408740e-005	-7.135794e-005	-3.405156e-005
356	-3.387179e-005	-7.269282e-005	5.910880e-006
357	-3.797036e-005	1.985064e-005	1.806654e-006
358	-4.019541e-005	7.060813e-005	-2.350136e-007
359	1.128338e-005	6.618556e-005	-3.636980e-005
360	1.245173e-005	1.091968e-005	-3.457696e-005
361	1.446001e-005	-8.996326e-005	-3.189460e-005
362	-2.999992e-005	-9.384973e-005	6.674524e-006
363	-3.373345e-005	-1.009498e-005	2.901962e-006
364	-3.571743e-005	3.568570e-005	1.151963e-006
365	1.160361e-005	3.539616e-005	-3.252993e-005
366	1.279378e-005	-1.687490e-005	-3.108032e-005
367	1.484758e-005	-1.127589e-004	-2.863041e-005
368	-2.425243e-005	-1.202009e-004	7.646574e-006
369	-2.761537e-005	-4.893156e-005	4.421576e-006
370	-2.924796e-005	-1.012182e-005	2.950388e-006
371	1.191716e-005	1.137732e-005	-2.916906e-005
372	1.311211e-005	-3.803988e-005	-2.789118e-005
373	1.517983e-005	-1.288218e-004	-2.562234e-005
374	-1.902686e-005	-1.391706e-004	8.468601e-006
375	-2.205240e-005	-7.861346e-005	5.761064e-006
376	-2.349323e-005	-4.564065e-005	4.533556e-006
377	1.217574e-005	-6.663758e-006	-2.614641e-005
378	1.337512e-005	-5.321840e-005	-2.497049e-005
379	1.545734e-005	-1.387868e-004	-2.285950e-005
380	-1.434100e-005	-1.512806e-004	9.152696e-006
381	-1.703397e-005	-9.978870e-005	6.912199e-006
382	-1.831549e-005	-7.173654e-005	5.901041e-006
383	1.235729e-005	-1.939313e-005	-2.338711e-005
384	1.356279e-005	-6.303367e-005	-2.229268e-005
385	1.566247e-005	-1.432721e-004	-2.032320e-005
386	-1.019228e-005	-1.571302e-004	9.704323e-006
387	-1.255748e-005	-1.131802e-004	7.879509e-006
388	-1.368406e-005	-8.922251e-005	7.059902e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
389	1.244589e-005	-2.742604e-005	-2.085910e-005
390	1.365740e-005	-6.809694e-005	-1.983792e-005
391	1.577487e-005	-1.428931e-004	-1.799852e-005
392	-6.571687e-006	-1.573760e-004	1.013141e-005
393	-8.618611e-006	-1.195717e-004	8.671406e-006
394	-9.594418e-006	-9.895291e-005	8.019142e-006
395	1.242744e-005	-3.136032e-005	-1.854365e-005
396	1.364264e-005	-6.901441e-005	-1.759093e-005
397	1.577429e-005	-1.382729e-004	-1.587476e-005
398	-3.465932e-006	-1.527152e-004	1.044261e-005
399	-5.209685e-006	-1.197947e-004	9.297470e-006
400	-6.041573e-006	-1.018317e-004	8.788829e-006
401	1.228939e-005	-3.178662e-005	-1.642738e-005
402	1.350368e-005	-6.639245e-005	-1.554037e-005
403	1.564162e-005	-1.300475e-004	-1.394445e-005
404	-8.590207e-007	-1.438749e-004	1.064570e-005
405	-2.320195e-006	-1.147168e-004	9.767073e-006
406	-3.017638e-006	-9.880238e-005	9.379120e-006
407	1.202062e-005	-2.929244e-005	-1.450061e-005
408	1.322717e-005	-6.084073e-005	-1.367818e-005
409	1.535930e-005	-1.188686e-004	-1.220240e-005
410	1.266317e-006	-1.316034e-004	1.074665e-005
411	6.214307e-008	-1.052317e-004	1.008853e-005
412	-5.127204e-007	-9.083736e-005	9.799449e-006
413	1.161151e-005	-2.446383e-005	-1.275665e-005
414	1.280140e-005	-5.297332e-005	-1.199880e-005
415	1.491161e-005	-1.054029e-004	-1.064492e-005
416	2.927376e-006	-1.166652e-004	1.074924e-005
417	1.950227e-006	-9.225274e-005	1.026855e-005
418	1.483954e-006	-7.893051e-005	1.005795e-005
419	1.105380e-005	-1.788571e-005	-1.119117e-005
420	1.221619e-005	-4.340809e-005	-1.049854e-005
421	1.428480e-005	-9.033002e-005	-9.269188e-006
422	4.140467e-006	-9.983616e-005	1.065485e-005
423	3.356505e-006	-7.670739e-005	1.031199e-005
424	2.982973e-006	-6.409115e-005	1.016112e-005
425	1.034039e-005	-1.014076e-005	-9.801576e-006
426	1.146298e-005	-3.276471e-005	-9.174974e-006
427	1.346725e-005	-7.433882e-005	-8.072808e-006
428	4.920103e-006	-8.190190e-005	1.046252e-005
429	4.292063e-006	-5.953391e-005	1.022165e-005
430	3.993775e-006	-4.734023e-005	1.011356e-005
431	9.463845e-006	-1.808336e-006	-8.585963e-006
432	1.053462e-005	-2.166147e-005	-8.026415e-006
433	1.244961e-005	-5.812201e-005	-7.053377e-006
434	5.278334e-006	-6.365546e-005	1.016899e-005
435	4.765854e-006	-4.167936e-005	9.998234e-006
436	4.523583e-006	-2.970846e-005	9.917353e-006
437	8.409824e-006	6.532429e-006	-7.539830e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
438	9.425063e-006	-1.071164e-005	-7.051116e-006
439	1.122521e-005	-4.236991e-005	-6.208191e-006
440	5.224159e-006	-4.589682e-005	9.769134e-006
441	4.784164e-006	-2.409893e-005	9.639980e-006
442	4.574569e-006	-1.224018e-005	9.566566e-006
443	7.147006e-006	1.428523e-005	-6.650279e-006
444	8.128599e-006	-5.196366e-007	-6.246088e-006
445	9.791461e-006	-2.776271e-005	-5.536498e-006
446	4.762065e-006	-2.943218e-005	9.259664e-006
447	4.351018e-006	-7.756204e-006	9.139761e-006
448	4.138198e-006	3.982807e-006	9.029713e-006
449	6.261376e-006	1.878819e-005	-6.184422e-006
450	7.198378e-006	5.395030e-006	-5.813491e-006
451	8.763983e-006	-1.931587e-005	-5.232097e-006
452	4.242164e-006	-1.990448e-005	8.891084e-006
453	3.837636e-006	1.669061e-006	8.728593e-006
454	3.597778e-006	1.327850e-005	8.588935e-006
455	5.383261e-006	2.270755e-005	-5.793328e-006
456	6.168881e-006	1.060217e-005	-5.387481e-006
457	6.937463e-006	-4.870086e-007	-5.247304e-006
458	7.669464e-006	-1.179560e-005	-5.064792e-006
459	3.525614e-006	-1.146878e-005	8.554415e-006
460	3.343375e-006	-6.284005e-007	8.358359e-006
461	3.164564e-006	9.918238e-006	8.170513e-006
462	2.930455e-006	2.135524e-005	8.151095e-006
463	4.012131e-006	2.735691e-005	-5.257064e-006
464	4.680448e-006	1.692114e-005	-5.023990e-006
465	5.933710e-006	-2.295722e-006	-4.613018e-006
466	2.467014e-006	-1.000498e-006	7.722850e-006
467	1.972217e-006	1.985535e-005	7.579303e-006
468	1.798507e-006	3.110770e-005	7.481620e-006
469	2.735114e-006	3.040667e-005	-4.821205e-006
470	3.323953e-006	2.137518e-005	-4.616468e-006
471	4.396748e-006	4.831381e-006	-4.276119e-006
472	1.503131e-006	6.711594e-006	7.043479e-006
473	9.571148e-007	2.678928e-005	6.930650e-006
474	7.199174e-007	3.768378e-005	6.858427e-006
475	1.611730e-006	3.196256e-005	-4.410186e-006
476	2.121971e-006	2.412132e-005	-4.238436e-006
477	3.035875e-006	9.786828e-006	-3.975177e-006
478	6.604584e-007	1.197106e-005	6.418339e-006
479	8.157717e-008	3.106488e-005	6.317594e-006
480	-1.840100e-007	4.143758e-005	6.258482e-006
481	6.413510e-007	3.219558e-005	-4.031037e-006
482	1.075677e-006	2.533395e-005	-3.895894e-006
483	1.848092e-006	1.279601e-005	-3.697567e-006
484	-6.131617e-008	1.507693e-005	5.834973e-006
485	-6.614749e-007	3.302164e-005	5.747839e-006
486	-9.392790e-007	4.277181e-005	5.697750e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
487	-1.821586e-007	3.127903e-005	-3.688939e-006
488	1.835578e-007	2.520381e-005	-3.586159e-006
489	8.316500e-007	1.410191e-005	-3.439708e-006
490	-6.637064e-007	1.632612e-005	5.290676e-006
491	-1.274606e-006	3.299535e-005	5.219803e-006
492	-1.558155e-006	4.205333e-005	5.179227e-006
493	-8.622560e-007	2.939205e-005	-3.382388e-006
494	-5.563276e-007	2.393530e-005	-3.305963e-006
495	-1.567106e-008	1.396043e-005	-3.199896e-006
496	-1.147000e-006	1.601528e-005	4.783684e-006
497	-1.758739e-006	3.131983e-005	4.730822e-006
498	-2.043245e-006	3.963709e-005	4.700475e-006
499	-1.401010e-006	2.672336e-005	-3.108218e-006
500	-1.145971e-006	2.174369e-005	-3.052649e-006
501	-6.964269e-007	1.263670e-005	-2.977352e-006
502	-1.510395e-006	1.444194e-005	4.311979e-006
503	-2.113739e-006	2.832807e-005	4.277871e-006
504	-2.394785e-006	3.587529e-005	4.258016e-006
505	-1.799919e-006	2.347093e-005	-2.863654e-006
506	-1.587250e-006	1.885285e-005	-2.824341e-006
507	-1.213201e-006	1.040235e-005	-2.772028e-006
508	-1.752437e-006	1.190500e-005	3.873044e-006
509	-2.338817e-006	2.435282e-005	3.857538e-006
510	-2.612278e-006	3.111902e-005	3.848015e-006
511	-2.059775e-006	1.984085e-005	-2.647070e-006
512	-1.881798e-006	1.549329e-005	-2.619907e-006
513	-1.568314e-006	7.533636e-006	-2.584469e-006
514	-1.871475e-006	8.704431e-006	3.463836e-006
515	-2.432893e-006	1.972654e-005	3.466016e-006
516	-2.694782e-006	2.571848e-005	3.466427e-006
517	-2.179663e-006	1.604739e-005	-2.459366e-006
518	-2.030915e-006	1.190069e-005	-2.438982e-006
519	-1.763570e-006	4.310321e-006	-2.415520e-006
520	-1.866075e-006	5.140309e-006	3.080807e-006
521	-2.394912e-006	1.478075e-005	3.099276e-006
522	-2.640312e-006	2.002359e-005	3.109996e-006
523	-2.157199e-006	1.231529e-005	-2.305607e-006
524	-2.035549e-006	8.314775e-006	-2.282991e-006
525	-1.799988e-006	1.015189e-006	-2.265008e-006
526	-1.735390e-006	1.511191e-006	2.719430e-006
527	-2.224005e-006	9.845075e-006	2.754027e-006
528	-2.444029e-006	1.438781e-005	2.779254e-006
529	-2.006587e-006	8.870604e-006	-2.181618e-006
530	-1.896784e-006	4.978521e-006	-2.164584e-006
531	-1.677158e-006	-2.066125e-006	-2.122677e-006
532	-1.479885e-006	-1.888027e-006	2.368700e-006
533	-1.918921e-006	5.245971e-006	2.435120e-006
534	-2.113550e-006	9.164219e-006	2.472762e-006
535	-1.921897e-006	7.621536e-006	-2.126864e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
536	-1.802811e-006	3.771472e-006	-2.154903e-006
537	-1.690869e-006	2.235072e-007	-2.099631e-006
538	-1.581829e-006	-3.179145e-006	-2.043867e-006
539	-1.345917e-006	-3.127004e-006	2.212205e-006
540	-1.552527e-006	1.742194e-007	2.283952e-006
541	-1.754926e-006	3.583454e-006	2.342093e-006
542	-1.951234e-006	7.287942e-006	2.352678e-006
543	-1.676692e-006	4.849030e-006	-2.008498e-006
544	-1.541211e-006	1.172599e-006	-2.000775e-006
545	-1.335278e-006	-5.520078e-006	-1.992709e-006
546	-9.930206e-007	-5.754950e-006	1.943204e-006
547	-1.353952e-006	-3.191841e-008	2.005066e-006
548	-1.534122e-006	3.104062e-006	2.047371e-006
549	-1.425246e-006	2.610983e-006	-1.891307e-006
550	-1.304772e-006	-8.895332e-007	-1.896411e-006
551	-1.105654e-006	-7.304694e-006	-1.908349e-006
552	-6.739435e-007	-7.790446e-006	1.667852e-006
553	-9.865029e-007	-2.914283e-006	1.725209e-006
554	-1.134835e-006	-2.563081e-007	1.758982e-006
555	-1.200838e-006	8.681609e-007	-1.790615e-006
556	-1.089398e-006	-2.462640e-006	-1.804274e-006
557	-8.954647e-007	-8.581244e-006	-1.825152e-006
558	-3.868718e-007	-9.268326e-006	1.414527e-006
559	-6.544274e-007	-5.110293e-006	1.472579e-006
560	-7.790819e-007	-2.845690e-006	1.503648e-006
561	-1.001128e-006	-4.354236e-007	-1.699572e-006
562	-8.939871e-007	-3.592874e-006	-1.717974e-006
563	-7.046563e-007	-9.397227e-006	-1.746041e-006
564	-1.315194e-007	-1.022982e-005	1.186063e-006
565	-3.575872e-007	-6.671439e-006	1.243594e-006
566	-4.625003e-007	-4.732728e-006	1.273755e-006
567	-8.223085e-007	-1.348886e-006	-1.613328e-006
568	-7.180349e-007	-4.325719e-006	-1.635289e-006
569	-5.330476e-007	-9.799654e-006	-1.669986e-006
570	9.262944e-008	-1.072111e-005	9.825625e-007
571	-9.545222e-008	-7.653559e-006	1.037858e-006
572	-1.826209e-007	-5.981429e-006	1.066659e-006
573	-6.628499e-007	-1.917287e-006	-1.529622e-006
574	-5.612349e-007	-4.706328e-006	-1.554696e-006
575	-3.806668e-007	-9.835721e-006	-1.595560e-006
576	2.863823e-007	-1.079208e-005	8.037488e-007
577	1.326758e-007	-8.116252e-006	8.553362e-007
578	6.151284e-008	-6.657032e-006	8.820845e-007
579	-5.221782e-007	-2.184309e-006	-1.447167e-006
580	-4.234154e-007	-4.779760e-006	-1.474970e-006
581	-2.477226e-007	-9.553290e-006	-1.521440e-006
582	4.506860e-007	-1.049537e-005	6.491599e-007
583	3.275767e-007	-8.122237e-006	6.959276e-007
584	2.706260e-007	-6.827752e-006	7.200753e-007

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
585	-4.000058e-007	-2.193088e-006	-1.365073e-006
586	-3.045099e-007	-4.591113e-006	-1.395143e-006
587	-1.345271e-007	-9.001128e-006	-1.446496e-006
588	5.864755e-007	-9.885679e-006	5.181623e-007
589	4.900192e-007	-7.736792e-006	5.594016e-007
590	4.454094e-007	-6.564591e-006	5.805911e-007
591	-2.961559e-007	-1.986351e-006	-1.282731e-006
592	-2.045206e-007	-4.185537e-006	-1.314503e-006
593	-4.141978e-008	-8.228900e-006	-1.369814e-006
594	6.945471e-007	-9.019391e-006	4.099815e-007
595	6.206636e-007	-7.027336e-006	4.454082e-007
596	5.864600e-007	-5.940947e-006	4.634833e-007
597	-2.105150e-007	-1.606346e-006	-1.199779e-006
598	-1.234776e-007	-3.608100e-006	-1.232582e-006
599	3.130328e-008	-7.286956e-006	-1.290698e-006
600	7.754531e-007	-7.954312e-006	3.237542e-007
601	7.199726e-007	-6.063164e-006	3.535223e-007
602	6.942023e-007	-5.032329e-006	3.685370e-007
603	-1.430065e-007	-1.094665e-006	-1.116072e-006
604	-6.139876e-008	-2.903533e-006	-1.149128e-006
605	8.346172e-008	-6.225916e-006	-1.208680e-006
606	8.294143e-007	-6.749621e-006	2.586026e-007
607	7.881417e-007	-4.915341e-006	2.833080e-007
608	7.688285e-007	-3.916217e-006	2.955305e-007
609	-9.356910e-008	-4.919918e-007	-1.031658e-006
610	-1.825317e-008	-2.115883e-006	-1.064053e-006
611	1.150749e-007	-5.096069e-006	-1.123507e-006
612	8.562549e-007	-5.465985e-006	2.137328e-007
613	8.250620e-007	-3.656718e-006	2.343989e-007
614	8.102454e-007	-2.672034e-006	2.443011e-007
615	-6.220568e-008	1.621579e-007	-9.466792e-007
616	6.062214e-009	-1.288131e-006	-9.773481e-007
617	1.264703e-007	-3.946580e-006	-1.035107e-006
618	8.553830e-007	-4.165816e-006	1.885699e-007
619	8.303222e-007	-2.362018e-006	2.065735e-007
620	8.178231e-007	-1.381369e-006	2.147361e-007
621	-4.944370e-008	8.290930e-007	-8.605754e-007
622	1.162561e-008	-4.618663e-007	-8.891414e-007
623	1.184003e-007	-2.824539e-006	-9.435077e-007
624	8.258949e-007	-2.913628e-006	1.829792e-007
625	8.031562e-007	-1.107941e-006	1.996542e-007
626	7.894696e-007	-1.291479e-007	2.064534e-007
627	-5.354340e-008	1.452202e-006	-7.747859e-007
628	-5.864385e-010	2.872896e-007	-8.031314e-007
629	9.337601e-008	-1.853642e-006	-8.545698e-007
630	7.741939e-007	-1.862232e-006	1.961231e-007
631	7.507391e-007	-8.870521e-008	2.100643e-007
632	7.329328e-007	8.664477e-007	2.161054e-007
633	-7.402246e-008	1.995848e-006	-6.903418e-007

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
634	-2.732719e-008	9.423908e-007	-7.113898e-007
635	1.106534e-008	-2.527856e-008	-7.399540e-007
636	5.023409e-008	-1.001473e-006	-7.664000e-007
637	7.021998e-007	-9.387682e-007	2.337024e-007
638	6.845380e-007	-5.652311e-008	2.318358e-007
639	6.666960e-007	7.999179e-007	2.294318e-007
640	6.571273e-007	1.727164e-006	2.406308e-007
641	-1.045469e-007	2.444654e-006	-6.090815e-007
642	-6.776792e-008	1.482353e-006	-6.300109e-007
643	4.514538e-009	-2.875249e-007	-6.712635e-007
644	6.093542e-007	-1.812675e-007	2.584841e-007
645	5.844233e-007	1.517195e-006	2.735298e-007
646	5.738340e-007	2.431283e-006	2.752273e-007
647	-1.391847e-007	2.785494e-006	-5.340021e-007
648	-1.059627e-007	1.902412e-006	-5.520043e-007
649	-4.293412e-008	2.830453e-007	-5.870974e-007
650	5.292737e-007	4.105230e-007	2.867791e-007
651	5.055686e-007	2.063946e-006	3.047959e-007
652	4.939516e-007	2.959936e-006	3.109739e-007
653	-1.723891e-007	3.021570e-006	-4.651210e-007
654	-1.431442e-007	2.207831e-006	-4.805289e-007
655	-8.918089e-008	7.170322e-007	-5.107913e-007
656	4.570361e-007	8.524471e-007	3.122387e-007
657	4.337463e-007	2.457485e-006	3.308200e-007
658	4.219103e-007	3.329045e-006	3.390225e-007
659	-2.039020e-007	3.159811e-006	-4.028231e-007
660	-1.788826e-007	2.405231e-006	-4.159748e-007
661	-1.331651e-007	1.022897e-006	-4.418760e-007
662	3.915895e-007	1.158961e-006	3.345058e-007
663	3.690088e-007	2.713650e-006	3.530570e-007
664	3.574791e-007	3.558309e-006	3.616915e-007
665	-2.336265e-007	3.207635e-006	-3.472105e-007
666	-2.125806e-007	2.502448e-006	-3.583068e-007
667	-1.742355e-007	1.210367e-006	-3.801806e-007
668	3.325212e-007	1.343415e-006	3.539087e-007
669	3.110346e-007	2.847071e-006	3.720807e-007
670	3.000800e-007	3.664196e-006	3.806614e-007
671	-2.611726e-007	3.173086e-006	-2.982312e-007
672	-2.437092e-007	2.508344e-006	-3.074210e-007
673	-2.119304e-007	1.290097e-006	-3.255534e-007
674	2.795961e-007	1.418340e-006	3.707647e-007
675	2.595328e-007	2.871413e-006	3.882671e-007
676	2.493243e-007	3.661198e-006	3.966036e-007
677	-2.861045e-007	3.064993e-006	-2.557953e-007
678	-2.718420e-007	2.432613e-006	-2.632087e-007
679	-2.459176e-007	1.273415e-006	-2.778509e-007
680	2.326589e-007	1.395662e-006	3.853021e-007
681	2.142795e-007	2.799575e-006	4.018865e-007
682	2.049465e-007	3.562764e-006	4.098438e-007

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
683	-3.080539e-007	2.892900e-006	-2.198034e-007
684	-2.966492e-007	2.285612e-006	-2.255672e-007
685	-2.759542e-007	1.172146e-006	-2.369495e-007
686	1.915951e-007	1.286870e-006	3.976737e-007
687	1.751091e-007	2.643870e-006	4.131280e-007
688	1.667588e-007	3.381667e-006	4.205891e-007
689	-3.267387e-007	2.666913e-006	-1.901371e-007
690	-3.178805e-007	2.078213e-006	-1.943904e-007
691	-3.018479e-007	9.985094e-007	-2.027479e-007
692	1.563109e-007	1.103100e-006	4.079840e-007
693	1.419068e-007	2.416165e-006	4.221203e-007
694	1.346385e-007	3.130189e-006	4.289796e-007
695	-3.419543e-007	2.397524e-006	-1.666427e-007
696	-3.353454e-007	1.821658e-006	-1.695450e-007
697	-3.234221e-007	7.650738e-007	-1.751554e-007
698	1.267331e-007	8.551954e-007	4.163117e-007
699	1.146083e-007	2.128002e-006	4.289528e-007
700	1.085306e-007	2.820273e-006	4.351080e-007
701	-3.535590e-007	2.095459e-006	-1.491554e-007
702	-3.488994e-007	1.527419e-006	-1.508333e-007
703	-3.404842e-007	4.847286e-007	-1.540589e-007
704	1.028235e-007	5.537592e-007	4.227050e-007
705	9.319855e-008	1.790689e-006	4.336934e-007
706	8.848648e-008	2.463678e-006	4.390456e-007
707	-3.614730e-007	1.771637e-006	-1.376534e-007
708	-3.584546e-007	1.207017e-006	-1.379651e-007
709	-3.527842e-007	1.706552e-007	-1.392507e-007
710	8.459711e-008	2.092799e-007	4.270946e-007
711	7.769369e-008	1.415370e-006	4.364095e-007
712	7.482562e-008	2.072227e-006	4.409045e-007
713	-3.657855e-007	1.437297e-006	-1.323110e-007
714	-3.641396e-007	8.717792e-007	-1.306858e-007
715	-3.598582e-007	-1.637557e-007	-1.301758e-007
716	7.203406e-008	-1.675313e-007	4.289225e-007
717	6.815080e-008	1.012978e-006	4.373173e-007
718	6.817094e-008	1.658173e-006	4.410285e-007
719	-3.671988e-007	1.102965e-006	-1.313548e-007
720	-3.675269e-007	5.325344e-007	-1.301727e-007
721	-3.638394e-007	8.890268e-009	-1.274762e-007
722	-3.599960e-007	-5.051052e-007	-1.245801e-007
723	6.423468e-008	-5.649210e-007	4.256202e-007
724	6.499398e-008	9.124661e-009	4.320388e-007
725	6.564055e-008	5.939201e-007	4.382737e-007
726	6.645805e-008	1.232659e-006	4.404445e-007

Prueba de carga 7

Desplazamientos de nudos

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
1	3.071003e-005	9.884504e-005	-8.412070e-006
2	3.054411e-005	4.708572e-005	-8.716733e-006
3	3.070928e-005	-6.169599e-007	-8.896038e-006
4	3.084119e-005	-4.870995e-005	-9.075342e-006
5	-3.087325e-005	-4.876424e-005	-9.025447e-006
6	-3.074064e-005	-6.211399e-007	-8.846354e-006
7	-3.057390e-005	4.712881e-005	-8.667261e-006
8	-3.073933e-005	9.893811e-005	-8.362643e-006
9	3.105505e-005	8.277259e-005	-8.071709e-006
10	3.101506e-005	3.032080e-005	-8.390343e-006
11	3.085216e-005	-6.628456e-005	-8.856520e-006
12	-3.088291e-005	-6.623935e-005	-8.803356e-006
13	-3.104513e-005	3.046126e-005	-8.339455e-006
14	-3.108305e-005	8.296185e-005	-8.022552e-006
15	3.152757e-005	6.803972e-005	-7.047405e-006
16	3.143442e-005	1.482048e-005	-7.443155e-006
17	3.121388e-005	-8.299781e-005	-8.169421e-006
18	-3.124213e-005	-8.283963e-005	-8.105680e-006
19	-3.146022e-005	1.506300e-005	-7.388962e-006
20	-3.154972e-005	6.832238e-005	-6.999868e-006
21	3.214462e-005	5.599484e-005	-5.374288e-006
22	3.202662e-005	1.751336e-006	-5.918744e-006
23	3.179405e-005	-9.789374e-005	-6.971144e-006
24	-3.181283e-005	-9.759369e-005	-6.889088e-006
25	-3.204013e-005	2.101407e-006	-5.862232e-006
26	-3.215149e-005	5.636136e-005	-5.333498e-006
27	3.297286e-005	4.785953e-005	-3.105943e-006
28	3.284418e-005	-7.775341e-006	-3.831218e-006
29	3.260307e-005	-1.099588e-004	-5.244515e-006
30	-3.259861e-005	-1.094738e-004	-5.138338e-006
31	-3.283051e-005	-7.319527e-006	-3.778792e-006
32	-3.294828e-005	4.828171e-005	-3.084546e-006
33	3.404637e-005	4.478097e-005	-2.587152e-007
34	3.390955e-005	-1.266209e-005	-1.181416e-006
35	3.365814e-005	-1.181559e-004	-2.981844e-006
36	-3.360746e-005	-1.174350e-004	-2.850731e-006
37	-3.384429e-005	-1.212381e-005	-1.148561e-006
38	-3.396471e-005	4.519307e-005	-2.805491e-007
39	3.538677e-005	4.789496e-005	3.171599e-006
40	3.524046e-005	-1.180610e-005	2.036551e-006
41	3.497608e-005	-1.214358e-004	-1.773839e-007
42	-3.484407e-005	-1.204339e-004	-3.002227e-008
43	-3.508696e-005	-1.125253e-005	2.020504e-006
44	-3.521012e-005	4.816668e-005	3.066740e-006
45	3.702214e-005	5.836085e-005	7.205154e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
46	3.685622e-005	-4.088261e-006	5.833243e-006
47	3.657456e-005	-1.187367e-004	3.176186e-006
48	-3.631121e-005	-1.174388e-004	3.315015e-006
49	-3.656296e-005	-3.663221e-006	5.719320e-006
50	-3.669719e-005	5.825968e-005	6.955314e-006
51	3.902078e-005	7.741359e-005	1.189897e-005
52	3.878450e-005	1.163548e-005	1.022345e-005
53	3.846802e-005	-1.089799e-004	7.089641e-006
54	-3.800717e-005	-1.074406e-004	7.170044e-006
55	-3.828298e-005	1.166687e-005	9.936623e-006
56	-3.847298e-005	7.655227e-005	1.141085e-005
57	4.151529e-005	1.064554e-004	1.733157e-005
58	4.110600e-005	3.654263e-005	1.522668e-005
59	4.062387e-005	-9.106157e-005	1.157776e-005
60	-3.989012e-005	-8.946511e-005	1.151352e-005
61	-4.030536e-005	3.573704e-005	1.465969e-005
62	-4.064245e-005	1.042204e-004	1.647455e-005
63	4.426635e-005	1.466995e-004	2.303322e-005
64	4.433280e-005	7.185595e-005	2.087051e-005
65	4.351303e-005	3.068590e-006	1.876373e-005
66	4.258305e-005	-6.384739e-005	1.665694e-005
67	-4.155354e-005	-6.259020e-005	1.631384e-005
68	-4.236124e-005	2.657105e-006	1.809644e-005
69	-4.306807e-005	6.952440e-005	1.987903e-005
70	-4.299400e-005	1.422248e-004	2.171214e-005
71	4.606048e-005	1.778243e-004	2.641976e-005
72	4.559947e-005	1.002372e-004	2.428911e-005
73	4.494260e-005	-4.112095e-005	1.966948e-005
74	-4.355073e-005	-4.041122e-005	1.913065e-005
75	-4.412322e-005	9.646494e-005	2.300451e-005
76	-4.451024e-005	1.714752e-004	2.478993e-005
77	4.782700e-005	2.129356e-004	2.928288e-005
78	4.745694e-005	1.323648e-004	2.685739e-005
79	4.703995e-005	-1.515677e-005	2.184638e-005
80	-4.530369e-005	-1.520254e-005	2.116618e-005
81	-4.567585e-005	1.268270e-004	2.534670e-005
82	-4.599044e-005	2.043331e-004	2.737401e-005
83	5.101607e-005	2.713622e-004	3.192229e-005
84	5.076848e-005	1.853194e-004	2.912051e-005
85	5.039106e-005	2.738065e-005	2.356277e-005
86	-4.808979e-005	2.595935e-005	2.274057e-005
87	-4.844242e-005	1.766745e-004	2.737883e-005
88	-4.866258e-005	2.587595e-004	2.972792e-005
89	5.467447e-005	3.330523e-004	3.265708e-005
90	5.446123e-005	2.408022e-004	2.952965e-005
91	5.407415e-005	7.134933e-005	2.340686e-005
92	-5.116541e-005	6.835299e-005	2.250545e-005
93	-5.154411e-005	2.287155e-004	2.766227e-005
94	-5.174982e-005	3.160284e-004	3.031037e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
95	5.873251e-005	3.944598e-004	3.152250e-005
96	5.851998e-005	2.953498e-004	2.809062e-005
97	5.811529e-005	1.132531e-004	2.138750e-005
98	-5.458486e-005	1.085774e-004	2.045087e-005
99	-5.499840e-005	2.796740e-004	2.619219e-005
100	-5.522073e-005	3.728422e-004	2.914691e-005
101	6.317109e-005	4.521110e-004	2.854219e-005
102	6.295163e-005	3.455042e-004	2.480361e-005
103	6.252623e-005	1.496042e-004	1.750449e-005
104	-5.839342e-005	1.432198e-004	1.657463e-005
105	-5.884570e-005	3.262720e-004	2.297079e-005
106	-5.909188e-005	4.259660e-004	2.626212e-005
107	6.799644e-005	5.025572e-004	2.371825e-005
108	6.776716e-005	3.878022e-004	1.966272e-005
109	6.731796e-005	1.769052e-004	1.174795e-005
110	-6.263706e-005	1.688712e-004	1.088308e-005
111	-6.313110e-005	3.652423e-004	1.800764e-005
112	-6.340252e-005	4.722037e-004	2.167186e-005
113	7.322497e-005	5.423458e-004	1.704446e-005
114	7.298186e-005	4.187644e-004	1.265603e-005
115	7.250468e-005	1.916306e-004	4.097677e-006
116	-6.736298e-005	1.821429e-004	3.392220e-006
117	-6.790096e-005	3.933425e-004	1.131904e-005
118	-6.819710e-005	5.083898e-004	1.539266e-005
119	7.888234e-005	5.680127e-004	8.513054e-006
120	7.861867e-005	4.348847e-004	3.767171e-006
121	7.810728e-005	1.902059e-004	-5.477797e-006
122	-7.261736e-005	1.796864e-004	-5.871141e-006
123	-7.319971e-005	4.073656e-004	2.926188e-006
124	-7.351751e-005	5.313900e-004	7.441658e-006
125	8.500537e-005	5.760838e-004	-1.882336e-006
126	8.471372e-005	4.326261e-004	-7.020933e-006
127	8.415902e-005	1.689856e-004	-1.702195e-005
128	-7.844092e-005	1.582147e-004	-1.686853e-005
129	-7.906423e-005	4.041455e-004	-7.148599e-006
130	-7.939217e-005	5.380941e-004	-2.173402e-006
131	9.162854e-005	5.630713e-004	-1.415687e-005
132	9.132370e-005	4.084260e-004	-1.971876e-005
133	9.071650e-005	1.242301e-004	-3.059009e-005
134	-8.486278e-005	1.145250e-004	-2.954992e-005
135	-8.551223e-005	3.805526e-004	-1.888920e-005
136	-8.579803e-005	5.253649e-004	-1.349075e-005
137	9.872720e-005	5.254204e-004	-2.836806e-005
138	9.852442e-005	3.587210e-004	-3.431723e-005
139	9.789053e-005	5.208341e-005	-4.624732e-005
140	-9.190506e-005	4.552002e-005	-4.385536e-005
141	-9.250812e-005	3.334696e-004	-3.229872e-005
142	-9.254516e-005	4.898555e-004	-2.668869e-005
143	1.063025e-004	4.595065e-004	-4.442230e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
144	1.063038e-004	2.800033e-004	-5.076667e-005
145	1.059987e-004	-5.144193e-005	-6.406328e-005
146	-9.970858e-005	-5.177449e-005	-5.971821e-005
147	-9.978858e-005	2.597341e-004	-4.742331e-005
148	-9.921850e-005	4.276898e-004	-4.202068e-005
149	1.158823e-004	3.632711e-004	-6.028327e-005
150	1.135401e-004	1.689255e-004	-6.894772e-005
151	1.152406e-004	-8.818030e-006	-7.652473e-005
152	1.166384e-004	-1.904679e-004	-8.410173e-005
153	-1.097003e-004	-1.801959e-004	-7.706667e-005
154	-1.078093e-004	-9.682290e-006	-7.073287e-005
155	-1.056232e-004	1.560156e-004	-6.439906e-005
156	-1.064944e-004	3.355204e-004	-5.808347e-005
157	1.235906e-004	2.834202e-004	-6.904796e-005
158	1.220905e-004	7.575458e-005	-8.025034e-005
159	1.210402e-004	-3.041096e-004	-9.721302e-005
160	-1.133279e-004	-2.835380e-004	-8.771284e-005
161	-1.125249e-004	6.886552e-005	-7.508760e-005
162	-1.111958e-004	2.574544e-004	-6.801376e-005
163	1.304719e-004	2.221567e-004	-7.320471e-005
164	1.289154e-004	-5.206040e-006	-8.707131e-005
165	1.259286e-004	-4.231231e-004	-1.076867e-004
166	-1.191078e-004	-4.075733e-004	-9.584658e-005
167	-1.186889e-004	-5.542469e-005	-8.483971e-005
168	-1.179122e-004	1.352468e-004	-7.968124e-005
169	1.414736e-004	1.400222e-004	-8.323039e-005
170	1.403434e-004	-1.150953e-004	-9.601209e-005
171	1.367305e-004	-5.863477e-004	-1.187272e-004
172	-1.266367e-004	-6.133709e-004	-1.024026e-004
173	-1.261843e-004	-2.595476e-004	-9.115039e-005
174	-1.261610e-004	-6.649556e-005	-8.543831e-005
175	1.557231e-004	2.618910e-005	-8.872911e-005
176	1.538451e-004	-2.534885e-004	-1.014552e-004
177	1.497993e-004	-7.681028e-004	-1.256948e-004
178	-1.336585e-004	-8.210313e-004	-1.038194e-004
179	-1.331465e-004	-4.457447e-004	-9.138403e-005
180	-1.329922e-004	-2.411274e-004	-8.493282e-005
181	1.707494e-004	-8.916965e-005	-8.886019e-005
182	1.686396e-004	-3.939361e-004	-1.020200e-004
183	1.644200e-004	-9.545525e-004	-1.275788e-004
184	-1.409063e-004	-1.028788e-003	-1.006545e-004
185	-1.403712e-004	-6.294931e-004	-8.659697e-005
186	-1.401584e-004	-4.117020e-004	-7.924256e-005
187	1.869175e-004	-1.968909e-004	-8.403433e-005
188	1.847535e-004	-5.277512e-004	-9.773940e-005
189	1.803921e-004	-1.136598e-003	-1.244115e-004
190	-1.486426e-004	-1.228756e-003	-9.281917e-005
191	-1.480304e-004	-8.021353e-004	-7.673537e-005
192	-1.477998e-004	-5.693050e-004	-6.832781e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
193	2.042644e-004	-2.883890e-004	-7.449724e-005
194	2.020820e-004	-6.463536e-004	-8.869848e-005
195	1.975823e-004	-1.305318e-003	-1.163131e-004
196	-1.570691e-004	-1.412869e-003	-8.014343e-005
197	-1.563284e-004	-9.549090e-004	-6.168281e-005
198	-1.560587e-004	-7.048740e-004	-5.206239e-005
199	2.226905e-004	-3.554614e-004	-6.044847e-005
200	2.205084e-004	-7.413972e-004	-7.505646e-005
201	2.158732e-004	-1.452068e-003	-1.034493e-004
202	-1.663401e-004	-1.572749e-003	-6.239292e-005
203	-1.654319e-004	-1.078854e-003	-4.128018e-005
204	-1.650765e-004	-8.091626e-004	-3.032311e-005
205	2.420247e-004	-3.903454e-004	-4.217142e-005
206	2.398899e-004	-8.049078e-004	-5.705457e-005
207	2.351269e-004	-1.568538e-003	-8.600000e-005
208	-1.765430e-004	-1.699575e-003	-3.926088e-005
209	-1.754422e-004	-1.164753e-003	-1.535798e-005
210	-1.749290e-004	-8.727816e-004	-3.033656e-006
211	2.619743e-004	-3.859761e-004	-2.013154e-005
212	2.599916e-004	-8.294623e-004	-3.504613e-005
213	2.551249e-004	-1.646731e-003	-6.410050e-005
214	-1.876322e-004	-1.783911e-003	-1.033593e-005
215	-1.863370e-004	-1.203148e-003	1.619924e-005
216	-1.855409e-004	-8.863595e-004	2.972073e-005
217	2.819889e-004	-3.364974e-004	4.850832e-006
218	2.803231e-004	-8.084917e-004	-9.586130e-006
219	2.754288e-004	-1.678808e-003	-3.769495e-005
220	-1.992714e-004	-1.815417e-003	2.497170e-005
221	-1.978265e-004	-1.184509e-003	5.331296e-005
222	-1.965474e-004	-8.409905e-004	6.746291e-005
223	3.009352e-004	-2.383802e-004	3.108373e-005
224	2.998237e-004	-7.369158e-004	1.832947e-005
225	2.951065e-004	-1.656542e-003	-6.188097e-006
226	-2.104744e-004	-1.782292e-003	6.760289e-005
227	-2.089898e-004	-1.099735e-003	9.538998e-005
228	-2.071434e-004	-7.291976e-004	1.089487e-004
229	3.158553e-004	-1.008122e-004	5.386370e-005
230	3.159659e-004	-6.173529e-004	4.404722e-005
231	3.117162e-004	-1.571981e-003	2.596304e-005
232	-2.205499e-004	-1.673647e-003	1.144835e-004
233	-2.188423e-004	-9.360285e-004	1.408609e-004
234	-2.169726e-004	-5.358726e-004	1.532148e-004
235	3.255825e-004	7.564653e-005	6.894523e-005
236	3.271265e-004	-4.483031e-004	6.375353e-005
237	3.240112e-004	-1.418744e-003	5.469335e-005
238	-2.290169e-004	-1.495840e-003	1.607986e-004
239	-2.272898e-004	-6.993807e-004	1.841792e-004
240	-2.251896e-004	-2.674128e-004	1.948620e-004
241	3.277582e-004	2.821141e-004	7.253036e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
242	3.310307e-004	-2.383736e-004	7.335314e-005
243	3.299265e-004	-1.203909e-003	7.518847e-005
244	-2.346778e-004	-1.256997e-003	1.994222e-004
245	-2.336632e-004	-4.086062e-004	2.159269e-004
246	-2.314501e-004	5.114429e-005	2.230085e-004
247	3.187973e-004	4.926875e-004	5.750871e-005
248	3.251704e-004	-1.276140e-005	6.403375e-005
249	3.262672e-004	-9.552741e-004	7.219665e-005
250	-2.409232e-004	-9.854804e-004	2.126144e-004
251	-2.400527e-004	-9.786286e-005	2.227594e-004
252	-2.368232e-004	3.808534e-004	2.244973e-004
253	2.974763e-004	6.697888e-004	1.891960e-005
254	3.080297e-004	1.885748e-004	2.917566e-005
255	3.152577e-004	-7.276650e-004	3.502108e-005
256	-2.546994e-004	-7.404706e-004	1.907623e-004
257	-2.495830e-004	1.755273e-004	1.954918e-004
258	-2.432920e-004	6.593029e-004	1.888407e-004
259	2.776913e-004	7.777056e-004	-3.529182e-005
260	2.654246e-004	3.184029e-004	-2.957026e-005
261	2.909660e-004	-1.027259e-004	-3.525855e-005
262	3.132074e-004	-5.806642e-004	-4.001280e-005
263	-2.918387e-004	-5.852056e-004	1.400556e-004
264	-2.709329e-004	-9.532365e-005	1.338772e-004
265	-2.505393e-004	3.449621e-004	1.278501e-004
266	-2.580858e-004	8.213378e-004	1.306519e-004
267	2.627380e-004	8.100361e-004	-7.475800e-005
268	2.676048e-004	3.453451e-004	-8.494164e-005
269	2.773184e-004	-5.490679e-004	-8.672601e-005
270	-2.866762e-004	-5.55251e-004	9.148117e-005
271	-2.815681e-004	3.727875e-004	8.438200e-005
272	-2.709504e-004	8.584783e-004	8.768653e-005
273	2.541480e-004	8.014428e-004	-1.135564e-004
274	2.600133e-004	3.276832e-004	-1.207187e-004
275	2.613283e-004	-5.662258e-004	-1.192994e-004
276	-2.873050e-004	-5.790022e-004	6.535896e-005
277	-2.914654e-004	3.371361e-004	5.533423e-005
278	-2.859213e-004	8.270175e-004	5.304300e-005
279	2.441744e-004	7.380237e-004	-1.477637e-004
280	2.490087e-004	2.603044e-004	-1.465562e-004
281	2.510335e-004	-6.290895e-004	-1.380934e-004
282	-2.784574e-004	-6.540272e-004	5.756314e-005
283	-2.876926e-004	2.275991e-004	3.969002e-005
284	-2.890669e-004	7.045508e-004	3.136770e-005
285	2.331986e-004	6.470777e-004	-1.599012e-004
286	2.387290e-004	1.775734e-004	-1.524401e-004
287	2.440648e-004	-6.923355e-004	-1.358506e-004
288	-2.575560e-004	-7.284361e-004	6.796365e-005
289	-2.701322e-004	1.006587e-004	4.357990e-005
290	-2.746372e-004	5.504091e-004	3.183078e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
291	2.215738e-004	5.547471e-004	-1.581884e-004
292	2.281655e-004	1.023308e-004	-1.468647e-004
293	2.366482e-004	-7.340676e-004	-1.244752e-004
294	-2.304237e-004	-7.779267e-004	8.354945e-005
295	-2.449406e-004	-1.024407e-005	5.640965e-005
296	-2.509660e-004	4.066156e-004	4.343328e-005
297	2.093891e-004	4.754808e-004	-1.488350e-004
298	2.168443e-004	4.658036e-005	-1.350092e-004
299	2.280118e-004	-7.448173e-004	-1.087014e-004
300	-2.008208e-004	-7.921778e-004	9.956311e-005
301	-2.163117e-004	-8.841370e-005	7.198075e-005
302	-2.231810e-004	2.940374e-004	5.893275e-005
303	1.965878e-004	4.155294e-004	-1.361544e-004
304	2.044921e-004	1.430512e-005	-1.211499e-004
305	2.173655e-004	-7.246512e-004	-9.341132e-005
306	-1.724703e-004	-7.720734e-004	1.118499e-004
307	-1.878591e-004	-1.296827e-004	8.599885e-005
308	-1.949961e-004	2.197025e-004	7.387153e-005
309	1.834051e-004	3.758598e-004	-1.228204e-004
310	1.914838e-004	4.143652e-006	-1.077095e-004
311	2.052201e-004	-6.795486e-004	-8.039648e-005
312	-1.471420e-004	-7.242381e-004	1.200948e-004
313	-1.617355e-004	-1.370417e-004	9.712997e-005
314	-1.686803e-004	1.824928e-004	8.638461e-005
315	1.700644e-004	3.545999e-004	-1.101911e-004
316	1.781984e-004	1.271258e-005	-9.556508e-005
317	1.923426e-004	-6.155869e-004	-6.949099e-005
318	-1.251591e-004	-6.551588e-004	1.252152e-004
319	-1.387316e-004	-1.159708e-004	1.052462e-004
320	-1.452541e-004	1.774961e-004	9.590599e-005
321	1.566434e-004	3.485386e-004	-9.895005e-005
322	1.647466e-004	3.593442e-005	-8.511471e-005
323	1.790054e-004	-5.382341e-004	-6.065234e-005
324	-1.065563e-004	-5.707495e-004	1.275994e-004
325	-1.190895e-004	-7.281198e-005	1.103514e-004
326	-1.251174e-004	1.981989e-004	1.022741e-004
327	1.431093e-004	3.538357e-004	-8.943274e-005
328	1.511239e-004	6.945632e-005	-7.653720e-005
329	1.652730e-004	-4.526934e-004	-5.387631e-005
330	-9.126436e-005	-4.767808e-004	1.274098e-004
331	-1.028428e-004	-1.430569e-005	1.124765e-004
332	-1.083889e-004	2.373541e-004	1.054426e-004
333	1.293320e-004	3.663439e-004	-8.179417e-005
334	1.372746e-004	1.088429e-004	-6.990547e-005
335	1.511380e-004	-3.640290e-004	-4.917045e-005
336	-7.919418e-005	-3.790398e-004	1.247135e-004
337	-8.994637e-005	5.258759e-005	1.116384e-004
338	-9.505771e-005	2.872773e-004	1.053126e-004
339	1.151767e-004	3.817560e-004	-7.606516e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
340	1.230660e-004	1.496696e-004	-6.519800e-005
341	1.366261e-004	-2.771922e-004	-4.658020e-005
342	-7.032764e-005	-2.833842e-004	1.195838e-004
343	-8.026672e-005	1.207537e-004	1.077761e-004
344	-8.502127e-005	3.398471e-004	1.016901e-004
345	1.011682e-004	3.960605e-004	-7.210433e-005
346	1.079596e-004	1.875629e-004	-6.204347e-005
347	1.153416e-004	-3.986654e-006	-5.429918e-005
348	1.221891e-004	-1.969973e-004	-4.648894e-005
349	-6.523356e-005	-1.957579e-004	1.125461e-004
350	-6.929478e-005	-5.273198e-006	1.064218e-004
351	-7.311474e-005	1.829484e-004	1.003334e-004
352	-7.808748e-005	3.872147e-004	9.551833e-005
353	9.179279e-005	4.049859e-004	-7.000380e-005
354	9.861550e-005	2.107272e-004	-6.144406e-005
355	1.110938e-004	-1.468730e-004	-4.633843e-005
356	-6.150219e-005	-1.417394e-004	1.056990e-004
357	-7.076062e-005	2.201618e-004	9.539614e-005
358	-7.469067e-005	4.159652e-004	9.062447e-005
359	8.305831e-005	4.115670e-004	-6.834100e-005
360	8.944543e-005	2.303529e-004	-6.047798e-005
361	1.010552e-004	-1.023476e-004	-4.653719e-005
362	-5.857379e-005	-9.437278e-005	9.959587e-005
363	-6.796510e-005	2.511704e-004	9.020299e-005
364	-7.207175e-005	4.388081e-004	8.578470e-005
365	7.007107e-005	4.153688e-004	-6.566646e-005
366	7.594971e-005	2.535180e-004	-5.873993e-005
367	8.661207e-005	-4.328573e-005	-4.659095e-005
368	-5.440334e-005	-3.263081e-005	9.063538e-005
369	-6.352800e-005	2.873827e-004	8.214928e-005
370	-6.769597e-005	4.613575e-004	7.816879e-005
371	5.832265e-005	4.132308e-004	-6.301781e-005
372	6.374270e-005	2.685528e-004	-5.696238e-005
373	7.356109e-005	3.367458e-006	-4.646901e-005
374	-5.065054e-005	1.538292e-005	8.224821e-005
375	-5.945085e-005	3.109606e-004	7.458886e-005
376	-6.352285e-005	4.716942e-004	7.099928e-005
377	4.780165e-005	4.054645e-004	-6.040323e-005
378	5.279288e-005	2.759188e-004	-5.516370e-005
379	6.181661e-005	3.848835e-005	-4.613194e-005
380	-4.726937e-005	5.099248e-005	7.441690e-005
381	-5.572109e-005	3.232321e-004	6.753287e-005
382	-5.964292e-005	4.712846e-004	6.430940e-005
383	3.844318e-005	3.924828e-004	-5.783344e-005
384	4.303059e-005	2.762020e-004	-5.332462e-005
385	5.130748e-005	6.307172e-005	-4.556804e-005
386	-4.421118e-005	7.546920e-005	6.713529e-005
387	-5.229510e-005	3.254733e-004	6.097860e-005
388	-5.605138e-005	4.614400e-004	5.809850e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
389	3.017698e-005	3.747774e-004	-5.529647e-005
390	3.438641e-005	2.700899e-004	-5.142717e-005
391	4.196670e-005	7.819146e-005	-4.477704e-005
392	-4.142055e-005	9.005742e-005	6.040273e-005
393	-4.912120e-005	3.189322e-004	5.492531e-005
394	-5.270377e-005	4.434133e-004	5.236583e-005
395	2.293794e-005	3.529216e-004	-5.277344e-005
396	2.679607e-005	2.583480e-004	-4.945899e-005
397	3.373107e-005	8.497215e-005	-4.376546e-005
398	-3.883629e-005	9.599398e-005	5.421926e-005
399	-4.614223e-005	3.048470e-004	4.937292e-005
400	-4.954502e-005	4.184432e-004	4.711125e-005
401	1.666793e-005	3.275605e-004	-5.024802e-005
402	2.020153e-005	2.418011e-004	-4.741310e-005
403	2.654226e-005	8.456870e-005	-4.254435e-005
404	-3.639385e-005	9.452045e-005	4.858277e-005
405	-4.329750e-005	2.844586e-004	4.431966e-005
406	-4.651624e-005	3.877703e-004	4.233318e-005
407	1.131619e-005	2.993984e-004	-4.770844e-005
408	1.455155e-005	2.213183e-004	-4.528689e-005
409	2.034782e-005	7.815277e-005	-4.112758e-005
410	-3.402789e-005	8.688888e-005	4.348719e-005
411	-4.052515e-005	2.590179e-004	3.976032e-005
412	-4.355730e-005	3.526448e-004	3.802679e-005
413	6.839538e-006	2.691886e-004	-4.514705e-005
414	9.802121e-006	1.978036e-004	-4.308108e-005
415	1.510188e-005	6.690474e-005	-3.953063e-005
416	-3.167460e-005	7.436250e-005	3.892138e-005
417	-3.776455e-005	2.297870e-004	3.568485e-005
418	-4.060913e-005	3.143281e-004	3.418251e-005
419	3.202744e-006	2.377257e-004	-4.255948e-005
420	5.916949e-006	1.721896e-004	-4.079880e-005
421	1.076587e-005	5.201017e-005	-3.776968e-005
422	-2.927372e-005	5.821213e-005	3.486829e-005
423	-3.495864e-005	1.980355e-004	3.207735e-005
424	-3.761627e-005	2.740893e-004	3.078497e-005
425	3.792498e-007	2.058432e-004	-3.994416e-005
426	2.867816e-006	1.454357e-004	-3.844483e-005
427	7.309475e-006	3.466055e-005	-3.586094e-005
428	-2.677052e-005	3.970883e-005	3.130427e-005
429	-3.205620e-005	1.650323e-004	2.891534e-005
430	-3.452908e-005	2.331958e-004	2.781238e-005
431	-1.646542e-006	1.744138e-004	-3.730298e-005
432	6.347465e-007	1.185289e-004	-3.602490e-005
433	4.711676e-006	1.605835e-005	-3.381951e-005
434	-2.411776e-005	2.011292e-005	2.819852e-005
435	-2.901402e-005	1.320327e-004	2.616929e-005
436	-3.130591e-005	1.929013e-004	2.523684e-005
437	-2.876307e-006	1.443576e-004	-3.464524e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
438	-7.941436e-007	9.248716e-005	-3.354564e-005
439	2.961888e-006	-2.572922e-006	-3.165693e-005
440	-2.127768e-005	6.596215e-007	2.551293e-005
441	-2.579922e-005	1.002616e-004	2.380250e-005
442	-2.791650e-005	1.544286e-004	2.302463e-005
443	-3.316049e-006	1.166409e-004	-3.199649e-005
444	-1.419483e-006	6.836239e-005	-3.102447e-005
445	2.059231e-006	-1.997324e-005	-2.937283e-005
446	-1.822553e-005	-1.745807e-005	2.320685e-005
447	-2.239253e-005	7.089359e-005	2.177500e-005
448	-2.436042e-005	1.189316e-004	2.112425e-005
449	-3.142168e-006	1.007072e-004	-3.034495e-005
450	-1.362702e-006	5.441738e-005	-2.944249e-005
451	1.923676e-006	-3.000146e-005	-2.785123e-005
452	-1.617019e-005	-2.798119e-005	2.192824e-005
453	-2.010578e-005	5.391391e-005	2.071886e-005
454	-2.197131e-005	9.854115e-005	2.019553e-005
455	-2.769091e-006	8.639939e-005	-2.864337e-005
456	-9.089730e-007	4.203451e-005	-2.800537e-005
457	6.196029e-007	1.273626e-006	-2.707732e-005
458	2.090982e-006	-3.862682e-005	-2.612900e-005
459	-1.401188e-005	-3.722168e-005	2.071175e-005
460	-1.592182e-005	5.408809e-007	2.032991e-005
461	-1.775121e-005	3.869091e-005	1.985997e-005
462	-1.948985e-005	8.016098e-005	1.934908e-005
463	-2.001728e-006	6.756213e-005	-2.606033e-005
464	-2.271619e-007	2.650140e-005	-2.530012e-005
465	2.753446e-006	-4.847083e-005	-2.410249e-005
466	-1.083741e-005	-4.832978e-005	1.918987e-005
467	-1.415058e-005	1.908236e-005	1.835086e-005
468	-1.575330e-005	5.580341e-005	1.799530e-005
469	-1.221374e-006	5.273887e-005	-2.361896e-005
470	4.135866e-007	1.479630e-005	-2.303466e-005
471	3.243447e-006	-5.471914e-005	-2.207617e-005
472	-7.922046e-006	-5.596493e-005	1.768034e-005
473	-1.089675e-005	3.970425e-006	1.701181e-005
474	-1.230097e-005	3.657337e-005	1.672539e-005
475	-5.655509e-007	4.145225e-005	-2.145742e-005
476	9.585160e-007	6.411305e-006	-2.099973e-005
477	3.631862e-006	-5.787080e-005	-2.020849e-005
478	-5.313354e-006	-6.034130e-005	1.625700e-005
479	-7.972658e-006	-6.936125e-006	1.575380e-005
480	-9.218051e-006	2.211291e-005	1.553906e-005
481	-3.269399e-008	3.316648e-005	-1.951510e-005
482	1.402721e-006	8.801178e-007	-1.914595e-005
483	3.930707e-006	-5.837805e-005	-1.849743e-005
484	-3.026745e-006	-6.175353e-005	1.492716e-005
485	-5.385107e-006	-1.399782e-005	1.456688e-005
486	-6.488306e-006	1.198484e-005	1.441718e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
487	3.881783e-007	2.741498e-005	-1.774348e-005
488	1.745655e-006	-2.231653e-006	-1.744640e-005
489	4.140182e-006	-5.665979e-005	-1.692353e-005
490	-1.067173e-006	-6.055616e-005	1.369372e-005
491	-3.140161e-006	-1.763469e-005	1.345280e-005
492	-4.109974e-006	5.723792e-006	1.335735e-005
493	7.010551e-007	2.377766e-005	-1.611469e-005
494	1.985999e-006	-3.333740e-006	-1.587998e-005
495	4.255700e-006	-5.311558e-005	-1.546841e-005
496	5.671172e-007	-5.714603e-005	1.255910e-005
497	-1.239955e-006	-1.831508e-005	1.241503e-005
498	-2.085649e-006	2.821257e-006	1.236285e-005
499	9.065910e-007	2.186197e-005	-1.461004e-005
500	2.121396e-006	-2.817525e-006	-1.442980e-005
501	4.270299e-006	-4.813587e-005	-1.411708e-005
502	1.882212e-006	-5.194908e-005	1.152410e-005
503	3.169595e-007	-1.654479e-005	1.145615e-005
504	-4.158855e-007	2.727982e-006	1.143707e-005
505	1.004228e-006	2.129480e-005	-1.321567e-005
506	2.148854e-006	-1.060798e-006	-1.308288e-005
507	4.176230e-006	-4.210791e-005	-1.285791e-005
508	2.886303e-006	-4.541113e-005	1.058712e-005
509	1.534337e-006	-1.285809e-005	1.057703e-005
510	9.010224e-007	4.861940e-006	1.058206e-005
511	9.924789e-007	2.171850e-005	-1.192099e-005
512	2.065229e-006	1.569391e-006	-1.182962e-005
513	3.966182e-006	-3.541809e-005	-1.168210e-005
514	3.587718e-006	-3.799230e-005	9.744033e-006
515	2.416721e-006	-7.810997e-006	9.776534e-006
516	1.867619e-006	8.615228e-006	9.797978e-006
517	8.678360e-007	2.278700e-005	-1.071621e-005
518	1.867626e-006	4.715721e-006	-1.066297e-005
519	3.634266e-006	-2.845098e-005	-1.058326e-005
520	3.993343e-006	-3.016401e-005	8.988739e-006
521	2.968008e-006	-1.977024e-006	9.051562e-006
522	2.483983e-006	1.335682e-005	9.081163e-006
523	6.233940e-007	2.415940e-005	-9.588353e-006
524	1.553663e-006	8.030993e-006	-9.576314e-006
525	3.176799e-006	-2.158592e-005	-9.557808e-006
526	4.107619e-006	-2.240811e-005	8.315428e-006
527	3.190150e-006	4.055032e-006	8.395728e-006
528	2.740475e-006	1.842400e-005	8.417142e-006
529	2.650290e-007	2.550106e-005	-8.534655e-006
530	1.121979e-006	1.117914e-005	-8.555120e-006
531	2.592208e-006	-1.519141e-005	-8.614619e-006
532	3.933226e-006	-1.521693e-005	7.736118e-006
533	3.081149e-006	9.681498e-006	7.785541e-006
534	2.645316e-006	2.312031e-005	7.793099e-006
535	1.171545e-007	2.604077e-005	-8.171826e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
536	9.216174e-007	1.233972e-005	-8.143140e-006
537	1.626470e-006	-2.244365e-007	-8.242567e-006
538	2.314976e-006	-1.287137e-005	-8.302510e-006
539	3.784952e-006	-1.262502e-005	7.581982e-006
540	3.359284e-006	-3.740872e-007	7.556187e-006
541	2.942999e-006	1.170324e-005	7.515535e-006
542	2.550423e-006	2.482915e-005	7.606709e-006
543	-2.842871e-007	2.698648e-005	-7.269508e-006
544	4.072042e-007	1.475410e-005	-7.306888e-006
545	1.655110e-006	-7.714402e-006	-7.396014e-006
546	3.357674e-006	-7.019073e-006	6.976585e-006
547	2.568064e-006	1.582950e-005	7.088391e-006
548	2.222009e-006	2.820496e-005	7.117716e-006
549	-6.754759e-007	2.750552e-005	-6.459719e-006
550	-5.495363e-008	1.656765e-005	-6.505425e-006
551	1.049072e-006	-3.483888e-006	-6.606996e-006
552	2.968429e-006	-2.545869e-006	6.472883e-006
553	2.220731e-006	1.884147e-005	6.619732e-006
554	1.876951e-006	3.045963e-005	6.677177e-006
555	-1.020897e-006	2.758572e-005	-5.720806e-006
556	-4.687015e-007	1.779473e-005	-5.773996e-006
557	5.027149e-007	-1.417181e-007	-5.892731e-006
558	2.608750e-006	9.087359e-007	6.008275e-006
559	1.902908e-006	2.086174e-005	6.172085e-006
560	1.573388e-006	3.170826e-005	6.244017e-006
561	-1.320941e-006	2.724918e-005	-5.051551e-006
562	-8.344850e-007	1.846233e-005	-5.112614e-006
563	1.748773e-008	2.366968e-006	-5.243966e-006
564	2.276015e-006	3.449470e-006	5.575149e-006
565	1.613266e-006	2.200350e-005	5.751569e-006
566	1.303190e-006	3.209098e-005	5.831015e-006
567	-1.578802e-006	2.652416e-005	-4.449782e-006
568	-1.152417e-006	1.860898e-005	-4.516855e-006
569	-4.068638e-007	4.109053e-006	-4.655929e-006
570	1.969674e-006	5.174592e-006	5.171854e-006
571	1.350986e-006	2.237267e-005	5.357937e-006
572	1.061475e-006	3.172369e-005	5.442686e-006
573	-1.795645e-006	2.544531e-005	-3.911389e-006
574	-1.422887e-006	1.828275e-005	-3.982166e-006
575	-7.715841e-007	5.159871e-006	-4.124823e-006
576	1.690375e-006	6.178360e-006	4.796920e-006
577	1.116114e-006	2.207000e-005	4.989883e-006
578	8.473773e-007	3.071128e-005	5.078513e-006
579	-1.971893e-006	2.405472e-005	-3.432127e-006
580	-1.646624e-006	1.753928e-005	-3.504560e-006
581	-1.078534e-006	5.600480e-006	-3.647454e-006
582	1.439459e-006	6.552928e-006	4.448352e-006
583	9.093427e-007	2.119290e-005	4.645546e-006
584	6.612556e-007	2.915403e-005	4.736728e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
585	-2.107969e-006	2.240131e-005	-3.008314e-006
586	-1.824627e-006	1.644015e-005	-3.080739e-006
587	-1.329890e-006	5.515748e-006	-3.221218e-006
588	1.218533e-006	6.389564e-006	4.123599e-006
589	7.317070e-007	1.983675e-005	4.322573e-006
590	5.038905e-007	2.714950e-005	4.415069e-006
591	-2.204444e-006	2.053973e-005	-2.636938e-006
592	-1.958050e-006	1.505164e-005	-2.708069e-006
593	-1.527896e-006	4.993153e-006	-2.844086e-006
594	1.029124e-006	5.779220e-006	3.819688e-006
595	5.843019e-007	1.809564e-005	4.018220e-006
596	3.761847e-007	2.479359e-005	4.110912e-006
597	-2.262008e-006	1.852935e-005	-2.315577e-006
598	-2.048081e-006	1.344384e-005	-2.384503e-006
599	-1.674640e-006	4.122197e-006	-2.514572e-006
600	8.724168e-007	4.812536e-006	3.533410e-006
601	4.680620e-007	1.606276e-005	3.729502e-006
602	2.789696e-007	2.218090e-005	3.821396e-006
603	-2.281382e-006	1.643347e-005	-2.042285e-006
604	-2.095828e-006	1.169004e-005	-2.108448e-006
605	-1.771879e-006	2.994325e-006	-2.231680e-006
606	7.490910e-007	3.579397e-006	3.261557e-006
607	3.836355e-007	1.383028e-005	3.453383e-006
608	2.128902e-007	1.940495e-005	3.543586e-006
609	-2.263212e-006	1.431873e-005	-1.815632e-006
610	-2.102240e-006	9.866360e-006	-1.878582e-006
611	-1.820868e-006	1.703202e-006	-1.994793e-006
612	6.592735e-007	2.168141e-006	3.001171e-006
613	3.313694e-007	1.148904e-005	3.186976e-006
614	1.783069e-007	1.655799e-005	3.274614e-006
615	-2.208030e-006	1.225504e-005	-1.635158e-006
616	-2.068070e-006	8.051379e-006	-1.693648e-006
617	-1.822194e-006	3.452422e-007	-1.803458e-006
618	6.026598e-007	6.645983e-007	2.749826e-006
619	3.114006e-007	9.128148e-006	2.927696e-006
620	1.749670e-007	1.373045e-005	3.011650e-006
621	-2.117237e-006	1.031572e-005	-1.501442e-006
622	-1.994185e-006	6.325545e-006	-1.552689e-006
623	-1.775434e-006	-9.798779e-007	-1.656636e-006
624	5.791505e-007	-8.487884e-007	2.506363e-006
625	3.238025e-007	6.834667e-006	2.673265e-006
626	2.024071e-007	1.101006e-005	2.751513e-006
627	-1.992046e-006	8.557622e-006	-1.417315e-006
628	-1.886896e-006	4.777545e-006	-1.460566e-006
629	-1.687668e-006	-2.138153e-006	-1.555356e-006
630	5.889249e-007	-2.131755e-006	2.292665e-006
631	3.622468e-007	4.976766e-006	2.451378e-006
632	2.552706e-007	8.852146e-006	2.530033e-006
633	-1.842754e-006	6.984399e-006	-1.362446e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
634	-1.750280e-006	3.389315e-006	-1.417972e-006
635	-1.651768e-006	8.338838e-008	-1.450617e-006
636	-1.552118e-006	-3.169297e-006	-1.479592e-006
637	6.227549e-007	-3.227930e-006	2.075435e-006
638	5.283087e-007	5.016726e-008	2.158995e-006
639	4.316318e-007	3.364282e-006	2.236771e-006
640	3.296120e-007	6.968055e-006	2.306262e-006
641	-1.680295e-006	5.625282e-006	-1.324769e-006
642	-1.583628e-006	2.222807e-006	-1.369400e-006
643	-1.417492e-006	-4.004737e-006	-1.451752e-006
644	6.791594e-007	-4.105234e-006	1.883551e-006
645	5.027790e-007	2.025987e-006	2.015676e-006
646	4.133226e-007	5.371456e-006	2.087114e-006
647	-1.519295e-006	4.511700e-006	-1.294576e-006
648	-1.435973e-006	1.285503e-006	-1.337366e-006
649	-1.286177e-006	-4.635275e-006	-1.417664e-006
650	7.286905e-007	-4.764118e-006	1.704072e-006
651	5.734355e-007	9.610292e-007	1.821300e-006
652	4.959323e-007	4.080000e-006	1.882622e-006
653	-1.374201e-006	3.629722e-006	-1.270779e-006
654	-1.300897e-006	5.609295e-007	-1.311098e-006
655	-1.164599e-006	-5.075862e-006	-1.386159e-006
656	7.748707e-007	-5.221626e-006	1.541740e-006
657	6.400993e-007	1.483167e-007	1.646493e-006
658	5.731872e-007	3.072410e-006	1.700042e-006
659	-1.243379e-006	2.958333e-006	-1.251326e-006
660	-1.177517e-006	3.260161e-008	-1.288575e-006
661	-1.053843e-006	-5.342225e-006	-1.357865e-006
662	8.181336e-007	-5.494779e-006	1.396388e-006
663	7.023846e-007	-4.328130e-007	1.489479e-006
664	6.449917e-007	2.323301e-006	1.536802e-006
665	-1.125041e-006	2.478928e-006	-1.235137e-006
666	-1.065738e-006	-3.160734e-007	-1.269092e-006
667	-9.542048e-007	-5.450575e-006	-1.332386e-006
668	8.584737e-007	-5.600610e-006	1.267280e-006
669	7.602686e-007	-8.027697e-007	1.349286e-006
670	7.115753e-007	1.809405e-006	1.390943e-006
671	-1.018596e-006	2.174406e-006	-1.221714e-006
672	-9.655625e-007	-5.017159e-007	-1.252226e-006
673	-8.658453e-007	-5.417439e-006	-1.309281e-006
674	8.957904e-007	-5.556240e-006	1.153683e-006
675	8.137187e-007	-9.818579e-007	1.225142e-006
676	7.730025e-007	1.508482e-006	1.261434e-006
677	-9.238805e-007	2.028267e-006	-1.210794e-006
678	-8.769895e-007	-5.408529e-007	-1.237694e-006
679	-7.888781e-007	-5.259514e-006	-1.288197e-006
680	9.299203e-007	-5.378956e-006	1.054933e-006
681	8.626318e-007	-9.904262e-007	1.116381e-006
682	8.292098e-007	1.398496e-006	1.147574e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
683	-8.408069e-007	2.024433e-006	-1.202236e-006
684	-7.999922e-007	-4.497761e-007	-1.225332e-006
685	-7.233741e-007	-4.993510e-006	-1.268900e-006
686	9.606260e-007	-5.086333e-006	9.704450e-007
687	9.068138e-007	-8.490307e-007	1.022433e-006
688	8.800264e-007	1.457267e-006	1.048796e-006
689	-7.692798e-007	2.147302e-006	-1.195979e-006
690	-7.345097e-007	-2.443895e-007	-1.215079e-006
691	-6.693371e-007	-4.635943e-006	-1.251283e-006
692	9.875752e-007	-4.696368e-006	8.997127e-007
693	9.459635e-007	-5.786222e-007	9.428241e-007
694	9.251654e-007	1.662241e-006	9.646394e-007
695	-7.091916e-007	2.381799e-006	-1.191958e-006
696	-6.804340e-007	5.993573e-008	-1.206938e-006
697	-6.266509e-007	-4.202867e-006	-1.235370e-006
698	1.010324e-006	-4.227661e-006	8.423131e-007
699	9.796531e-007	-2.007638e-007	8.771797e-007
700	9.641854e-007	1.990241e-006	8.947470e-007
701	-6.604414e-007	2.713281e-006	-1.189937e-006
702	-6.375881e-007	4.484559e-007	-1.200865e-006
703	-5.949769e-007	-3.709498e-006	-1.221302e-006
704	1.028308e-006	-3.699604e-006	7.978944e-007
705	1.007288e-006	2.621066e-007	8.252268e-007
706	9.963419e-007	2.417079e-006	8.388707e-007
707	-6.229881e-007	3.127128e-006	-1.189230e-006
708	-6.056737e-007	9.069977e-007	-1.196513e-006
709	-5.735629e-007	-3.169658e-006	-1.209309e-006
710	1.040898e-006	-3.132521e-006	7.661428e-007
711	1.027971e-006	7.863293e-007	7.867308e-007
712	1.020134e-006	2.916752e-006	7.968398e-007
713	-5.970846e-007	3.607776e-006	-1.188344e-006
714	-5.840938e-007	1.421533e-006	-1.192561e-006
715	-5.609932e-007	-2.594908e-006	-1.199783e-006
716	1.047804e-006	-2.547570e-006	7.469448e-007
717	1.039900e-006	1.346472e-006	7.610411e-007
718	1.032814e-006	3.459819e-006	7.685464e-007
719	-5.847390e-007	4.136456e-006	-1.184841e-006
720	-5.713266e-007	1.976965e-006	-1.185166e-006
721	-5.639759e-007	-7.834305e-009	-1.190469e-006
722	-5.561628e-007	-1.993107e-006	-1.195094e-006
723	1.052334e-006	-1.966027e-006	7.434590e-007
724	1.045304e-006	-1.961565e-008	7.443908e-007
725	1.037385e-006	1.914277e-006	7.441896e-007
726	1.033529e-006	4.012509e-006	7.549841e-007

Prueba de carga 8

Desplazamientos de nudos

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
1	8.945074e-006	2.899537e-005	8.446806e-007
2	8.900466e-006	1.391082e-005	8.058848e-007
3	8.854182e-006	5.419712e-008	7.501047e-007
4	8.799945e-006	-1.371009e-005	6.943246e-007
5	-8.812381e-006	-1.373116e-005	7.137553e-007
6	-8.866344e-006	5.256518e-008	7.694478e-007
7	-8.912016e-006	1.392752e-005	8.251402e-007
8	-8.956430e-006	2.903144e-005	8.639150e-007
9	8.999928e-006	3.066650e-005	8.600941e-007
10	8.959086e-006	1.548342e-005	7.976985e-007
11	8.890130e-006	-1.238781e-005	6.551720e-007
12	-8.902048e-006	-1.237013e-005	6.758784e-007
13	-8.970738e-006	1.553801e-005	8.175050e-007
14	-9.010774e-006	3.074000e-005	8.792201e-007
15	9.110190e-006	3.239410e-005	8.745268e-007
16	9.075735e-006	1.702180e-005	7.641446e-007
17	9.009346e-006	-1.121601e-005	5.464136e-007
18	-9.020283e-006	-1.115432e-005	5.712455e-007
19	-9.085715e-006	1.711612e-005	7.852364e-007
20	-9.118742e-006	3.250392e-005	8.930151e-007
21	9.286512e-006	3.413383e-005	8.536771e-007
22	9.251165e-006	1.846421e-005	6.929470e-007
23	9.183411e-006	-1.031826e-005	3.803199e-007
24	-9.190643e-006	-1.020131e-005	4.122911e-007
25	-9.256341e-006	1.860038e-005	7.149366e-007
26	-9.289093e-006	3.427625e-005	8.695257e-007
27	9.531183e-006	3.581477e-005	7.950151e-007
28	9.493421e-006	1.973334e-005	5.802516e-007
29	9.423235e-006	-9.801467e-006	1.619731e-007
30	-9.421388e-006	-9.612444e-006	2.033412e-007
31	-9.487980e-006	1.991064e-005	6.006375e-007
32	-9.521491e-006	3.597877e-005	8.032909e-007
33	9.848984e-006	3.736518e-005	6.992975e-007
34	9.808602e-006	2.074852e-005	4.262341e-007
35	9.735177e-006	-9.765388e-006	-1.061259e-007
36	-9.715290e-006	-9.484466e-006	-5.504991e-008
37	-9.783032e-006	2.095786e-005	4.389745e-007
38	-9.817018e-006	3.752510e-005	6.907033e-007
39	1.024550e-005	3.871648e-005	5.690086e-007
40	1.020230e-005	2.143167e-005	2.332510e-007
41	1.012483e-005	-1.030543e-005	-4.217941e-007
42	-1.007322e-005	-9.915046e-006	-3.644068e-007
43	-1.014231e-005	2.164681e-005	2.269050e-007
44	-1.017649e-005	3.882149e-005	5.280263e-007
45	1.072618e-005	3.980640e-005	4.078871e-007
46	1.068044e-005	2.171092e-005	5.248049e-009

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
47	1.059827e-005	-1.151212e-005	-7.820054e-007
48	-1.049543e-005	-1.100646e-005	-7.279783e-007
49	-1.056595e-005	2.187575e-005	-3.928072e-008
50	-1.059934e-005	3.976581e-005	3.103577e-007
51	1.129457e-005	4.057970e-005	2.192193e-007
52	1.124911e-005	2.152356e-005	-2.524317e-007
53	1.116252e-005	-1.346864e-005	-1.182113e-006
54	-1.098268e-005	-1.286913e-005	-1.150906e-006
55	-1.105342e-005	2.153467e-005	-3.643948e-007
56	-1.108082e-005	4.024247e-005	2.874905e-008
57	1.195192e-005	4.098660e-005	7.646511e-009
58	1.191144e-005	2.081849e-005	-5.333021e-007
59	1.182786e-005	-1.624705e-005	-1.615228e-006
60	-1.154166e-005	-1.562557e-005	-1.640456e-006
61	-1.159911e-005	2.050300e-005	-7.545152e-007
62	-1.161136e-005	4.011344e-005	-3.267221e-007
63	1.272387e-005	4.101169e-005	-1.853624e-007
64	1.264400e-005	1.955777e-005	-8.304892e-007
65	1.265345e-005	-1.650437e-007	-1.451135e-006
66	1.262891e-005	-1.990334e-005	-2.071780e-006
67	-1.222767e-005	-1.941452e-005	-2.205751e-006
68	-1.220427e-005	-3.266896e-007	-1.711485e-006
69	-1.215050e-005	1.864701e-005	-1.217219e-006
70	-1.222751e-005	3.926480e-005	-7.005780e-007
71	1.325274e-005	4.079651e-005	-2.646927e-007
72	1.321060e-005	1.843257e-005	-9.919476e-007
73	1.312762e-005	-2.268970e-005	-2.346607e-006
74	-1.258489e-005	-2.241448e-005	-2.556655e-006
75	-1.263487e-005	1.695998e-005	-1.492745e-006
76	-1.264802e-005	3.831882e-005	-8.999920e-007
77	1.383842e-005	4.049711e-005	-3.224224e-007
78	1.379896e-005	1.714300e-005	-1.095792e-006
79	1.369875e-005	-2.578533e-005	-2.563675e-006
80	-1.302169e-005	-2.580423e-005	-2.828121e-006
81	-1.310440e-005	1.498250e-005	-1.684086e-006
82	-1.312209e-005	3.714135e-005	-1.065971e-006
83	1.483461e-005	4.013612e-005	-3.070515e-007
84	1.477856e-005	1.510387e-005	-1.143530e-006
85	1.467117e-005	-3.087569e-005	-2.771413e-006
86	-1.377372e-005	-3.142773e-005	-3.089164e-006
87	-1.387139e-005	1.173477e-005	-1.820139e-006
88	-1.391655e-005	3.522324e-005	-1.160445e-006
89	1.592077e-005	3.998093e-005	-1.318669e-007
90	1.586099e-005	1.311612e-005	-1.049357e-006
91	1.574914e-005	-3.623558e-005	-2.842118e-006
92	-1.461449e-005	-3.739348e-005	-3.187394e-006
93	-1.472284e-005	8.411881e-006	-1.772445e-006
94	-1.477927e-005	3.334998e-005	-1.042672e-006
95	1.710962e-005	4.032046e-005	1.918158e-007

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
96	1.704858e-005	1.144755e-005	-8.114051e-007
97	1.693214e-005	-4.160434e-005	-2.771800e-006
98	-1.555403e-005	-4.340114e-005	-3.126047e-006
99	-1.567336e-005	5.355992e-006	-1.543596e-006
100	-1.573742e-005	3.190776e-005	-7.282983e-007
101	1.840571e-005	4.143008e-005	6.611513e-007
102	1.834315e-005	1.036783e-005	-4.295956e-007
103	1.822145e-005	-4.671726e-005	-2.560214e-006
104	-1.660598e-005	-4.915401e-005	-2.905678e-006
105	-1.673706e-005	2.907156e-006	-1.133330e-006
106	-1.680865e-005	3.126399e-005	-2.206904e-007
107	1.981179e-005	4.358171e-005	1.274640e-006
108	1.974686e-005	1.014483e-005	9.401922e-008
109	1.961889e-005	-5.131270e-005	-2.210786e-006
110	-1.778470e-005	-5.435366e-005	-2.523743e-006
111	-1.792821e-005	1.408525e-006	-5.386743e-007
112	-1.800740e-005	3.178595e-005	4.826939e-007
113	2.133202e-005	4.704413e-005	2.029950e-006
114	2.126331e-005	1.104073e-005	7.553327e-007
115	2.112760e-005	-5.513896e-005	-1.730659e-006
116	-1.910465e-005	-5.869369e-005	-1.974275e-006
117	-1.926096e-005	1.211102e-006	2.457017e-007
118	-1.934730e-005	3.384803e-005	1.386639e-006
119	2.297366e-005	5.208211e-005	2.924633e-006
120	2.289884e-005	1.330872e-005	1.548804e-006
121	2.275311e-005	-5.796149e-005	-1.130786e-006
122	-2.057954e-005	-6.185315e-005	-1.247702e-006
123	-2.074834e-005	2.677491e-006	1.226775e-006
124	-2.084055e-005	3.783402e-005	2.496513e-006
125	2.474950e-005	5.895865e-005	3.958435e-006
126	2.466454e-005	1.719159e-005	2.468788e-006
127	2.450511e-005	-5.957009e-005	-4.257878e-007
128	-2.222074e-005	-6.348961e-005	-3.309948e-007
129	-2.240064e-005	6.183728e-006	2.411849e-006
130	-2.249642e-005	4.413629e-005	3.816536e-006
131	2.668355e-005	6.794464e-005	5.139080e-006
132	2.657923e-005	2.292378e-005	3.511843e-006
133	2.639979e-005	-5.978533e-005	3.668756e-007
134	-2.403499e-005	-6.323334e-005	7.913779e-007
135	-2.422306e-005	1.211781e-005	3.806359e-006
136	-2.431991e-005	5.315140e-005	5.348031e-006
137	2.882762e-005	7.934831e-005	6.496990e-006
138	2.867524e-005	3.073883e-005	4.680290e-006
139	2.846131e-005	-5.846238e-005	1.229148e-006
140	-2.602062e-005	-6.068436e-005	2.134872e-006
141	-2.621360e-005	2.087307e-005	5.410638e-006
142	-2.631205e-005	6.527325e-005	7.088174e-006
143	3.128675e-005	9.358006e-005	8.097619e-006
144	3.101886e-005	4.088503e-005	5.987216e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
145	3.070955e-005	-5.548850e-005	2.147140e-006
146	-2.815823e-005	-5.541710e-005	3.709163e-006
147	-2.836664e-005	3.283469e-005	7.215894e-006
148	-2.846229e-005	8.087820e-005	9.017783e-006
149	3.413236e-005	1.111391e-004	9.901291e-006
150	3.384347e-005	5.365161e-005	7.462862e-006
151	3.348307e-005	1.037380e-006	5.291484e-006
152	3.303106e-005	-5.076793e-005	3.120106e-006
153	-3.035633e-005	-4.700056e-005	5.506861e-006
154	-3.057608e-005	4.943931e-007	7.353825e-006
155	-3.072328e-005	4.835909e-005	9.200790e-006
156	-3.066475e-005	1.002273e-004	1.101408e-005
157	3.628066e-005	1.245384e-004	1.116738e-005
158	3.563531e-005	6.364330e-005	8.386122e-006
159	3.497531e-005	-4.659783e-005	3.613623e-006
160	-3.203081e-005	-3.940990e-005	6.722867e-006
161	-3.211013e-005	6.073994e-005	1.051953e-005
162	-3.204538e-005	1.149484e-004	1.228860e-005
163	3.800803e-005	1.350024e-004	1.223241e-005
164	3.752215e-005	7.244784e-005	8.973894e-006
165	3.661063e-005	-4.182922e-005	3.760714e-006
166	-3.391333e-005	-3.036557e-005	7.924607e-006
167	-3.377614e-005	7.707967e-005	1.187940e-005
168	-3.377005e-005	1.354104e-004	1.355859e-005
169	4.076048e-005	1.585293e-004	1.216345e-005
170	4.038616e-005	9.275392e-005	9.158615e-006
171	3.942433e-005	-2.839948e-005	3.657344e-006
172	-3.657884e-005	-2.237498e-005	9.243228e-006
173	-3.630583e-005	9.498733e-005	1.366844e-005
174	-3.629518e-005	1.590194e-004	1.587265e-005
175	4.435367e-005	1.896801e-004	1.218879e-005
176	4.383611e-005	1.179644e-004	9.059866e-006
177	4.276951e-005	-1.383173e-005	3.057940e-006
178	-3.914902e-005	-1.400264e-005	1.010882e-005
179	-3.884439e-005	1.116759e-004	1.482870e-005
180	-3.873217e-005	1.801291e-004	1.725818e-005
181	4.804960e-005	2.213724e-004	1.181597e-005
182	4.748148e-005	1.434007e-004	8.506723e-006
183	4.636420e-005	9.776671e-008	2.069055e-006
184	-4.196266e-005	-5.120924e-006	1.052365e-005
185	-4.165691e-005	1.295268e-004	1.566857e-005
186	-4.151486e-005	2.028744e-004	1.834940e-005
187	5.189488e-005	2.529183e-004	1.100491e-005
188	5.130953e-005	1.683245e-004	7.505944e-006
189	5.014768e-005	1.277337e-005	6.933987e-007
190	-4.511686e-005	3.428183e-006	1.050010e-005
191	-4.479619e-005	1.479292e-004	1.619456e-005
192	-4.465118e-005	2.266856e-004	1.916482e-005
193	5.588966e-005	2.835585e-004	9.721549e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
194	5.529092e-005	1.919896e-004	6.046384e-006
195	5.408365e-005	2.354505e-005	-1.096769e-006
196	-4.867966e-005	1.082940e-005	1.007523e-005
197	-4.832728e-005	1.662880e-004	1.643370e-005
198	-4.817729e-005	2.510534e-004	1.974498e-005
199	6.001933e-005	3.124803e-004	7.938247e-006
200	5.940205e-005	2.136090e-004	4.098099e-006
201	5.814587e-005	3.168829e-005	-3.350492e-006
202	-5.270821e-005	1.633548e-005	9.305137e-006
203	-5.230898e-005	1.840559e-004	1.642989e-005
204	-5.214393e-005	2.755307e-004	2.013240e-005
205	6.427710e-005	3.388192e-004	5.622591e-006
206	6.363002e-005	2.323266e-004	1.615811e-006
207	6.231706e-005	3.637191e-005	-6.135501e-006
208	-5.725046e-005	1.929951e-005	8.262184e-006
209	-5.679001e-005	2.007610e-004	1.623989e-005
210	-5.659674e-005	2.997357e-004	2.037381e-005
211	6.868106e-005	3.616591e-004	2.742929e-006
212	6.797768e-005	2.471985e-004	-1.456159e-006
213	6.659120e-005	3.662830e-005	-9.537673e-006
214	-6.234351e-005	1.920415e-005	7.033550e-006
215	-6.180565e-005	2.160266e-004	1.592776e-005
216	-6.156255e-005	3.233540e-004	2.051129e-005
217	7.330416e-005	3.800599e-004	-7.132183e-007
218	7.247338e-005	2.571842e-004	-5.177619e-006
219	7.097686e-005	3.132544e-005	-1.365932e-005
220	-6.801186e-005	1.568805e-005	5.718219e-006
221	-6.737048e-005	2.295812e-004	1.555712e-005
222	-6.702822e-005	3.461161e-004	2.056098e-005
223	7.830812e-005	3.931210e-004	-4.743456e-006
224	7.719313e-005	2.611542e-004	-9.605882e-006
225	7.548244e-005	1.914653e-005	-1.860958e-005
226	-7.428364e-005	8.563133e-006	4.420220e-006
227	-7.345572e-005	2.412541e-004	1.517995e-005
228	-7.291700e-005	3.677511e-004	2.051768e-005
229	8.356068e-005	4.004350e-004	-8.961200e-006
230	8.212510e-005	2.589239e-004	-1.452855e-005
231	7.998192e-005	-3.776807e-007	-2.442643e-005
232	-8.135049e-005	-3.065603e-006	3.268395e-006
233	-8.019713e-005	2.505544e-004	1.476295e-005
234	-7.954320e-005	3.883918e-004	2.024889e-005
235	8.917595e-005	4.053145e-004	-1.381258e-005
236	8.743398e-005	2.532664e-004	-2.010809e-005
237	8.470948e-005	-2.541962e-005	-3.118597e-005
238	-8.905567e-005	-2.247839e-005	2.319604e-006
239	-8.748615e-005	2.535072e-004	1.447847e-005
240	-8.669444e-005	4.035708e-004	2.021890e-005
241	9.540756e-005	4.080636e-004	-1.941900e-005
242	9.328025e-005	2.439655e-004	-2.649373e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
243	8.983983e-005	-5.681446e-005	-3.896508e-005
244	-9.722770e-005	-5.044206e-005	1.582937e-006
245	-9.519368e-005	2.487921e-004	1.433329e-005
246	-9.417803e-005	4.114658e-004	2.031610e-005
247	1.022455e-004	4.083302e-004	-2.583384e-005
248	9.972661e-005	2.305655e-004	-3.371599e-005
249	9.546647e-005	-9.544785e-005	-4.775495e-005
250	-1.058545e-004	-8.757205e-005	1.020224e-006
251	-1.033035e-004	2.356900e-004	1.432033e-005
252	-1.019749e-004	4.112766e-004	2.044133e-005
253	1.097198e-004	4.058268e-004	-3.304792e-005
254	1.067715e-004	2.127185e-004	-4.177786e-005
255	1.017229e-004	-1.420222e-004	-5.755279e-005
256	-1.150388e-004	-1.346206e-004	6.085049e-007
257	-1.117301e-004	2.133957e-004	1.438909e-005
258	-1.099861e-004	4.019123e-004	2.047235e-005
259	1.183147e-004	4.007012e-004	-4.071749e-005
260	1.140055e-004	1.902068e-004	-5.056254e-005
261	1.117735e-004	-2.959245e-006	-5.970933e-005
262	1.091287e-004	-1.970234e-004	-6.846410e-005
263	-1.255200e-004	-1.924960e-004	5.074805e-007
264	-1.227354e-004	-4.752623e-006	7.521503e-006
265	-1.197799e-004	1.809843e-004	1.428862e-005
266	-1.184887e-004	3.827017e-004	2.136454e-005
267	1.250096e-004	3.954704e-004	-4.614647e-005
268	1.207577e-004	1.709637e-004	-5.725190e-005
269	1.138342e-004	-2.417295e-004	-7.612102e-005
270	-1.314968e-004	-2.411418e-004	8.125064e-007
271	-1.270276e-004	1.508521e-004	1.564594e-005
272	-1.244990e-004	3.630945e-004	2.319278e-005
273	1.324459e-004	3.900168e-004	-5.170210e-005
274	1.277887e-004	1.503881e-004	-6.338586e-005
275	1.196434e-004	-2.897580e-004	-8.339530e-005
276	-1.379571e-004	-2.941292e-004	3.074852e-006
277	-1.332905e-004	1.171682e-004	1.873636e-005
278	-1.306910e-004	3.403889e-004	2.639844e-005
279	1.444006e-004	3.847156e-004	-5.914252e-005
280	1.389116e-004	1.216106e-004	-7.137979e-005
281	1.294003e-004	-3.612312e-004	-9.288285e-005
282	-1.471669e-004	-3.732057e-004	9.409075e-006
283	-1.416860e-004	6.826395e-005	2.638762e-005
284	-1.390603e-004	3.083615e-004	3.447572e-005
285	1.576743e-004	3.839677e-004	-6.559657e-005
286	1.514273e-004	9.590899e-005	-7.852551e-005
287	1.405134e-004	-4.328421e-004	-1.013718e-004
288	-1.561487e-004	-4.522329e-004	1.926816e-005
289	-1.495101e-004	2.289766e-005	3.793209e-005
290	-1.464436e-004	2.814136e-004	4.678720e-005
291	1.722870e-004	3.912748e-004	-7.130120e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
292	1.653279e-004	7.683607e-005	-8.487769e-005
293	1.529827e-004	-5.006053e-004	-1.088584e-004
294	-1.649159e-004	-5.263244e-004	3.272223e-005
295	-1.568387e-004	-1.289167e-005	5.339311e-005
296	-1.531264e-004	2.664933e-004	6.319285e-005
297	1.881173e-004	4.099086e-004	-7.644001e-005
298	1.805470e-004	6.796822e-005	-9.050763e-005
299	1.668026e-004	-5.603787e-004	-1.153228e-004
300	-1.734549e-004	-5.906649e-004	4.988308e-005
301	-1.636857e-004	-3.329395e-005	7.277257e-005
302	-1.591748e-004	2.699796e-004	8.359214e-005
303	2.048042e-004	4.427959e-004	-8.122628e-005
304	1.968793e-004	7.278969e-005	-9.550838e-005
305	1.819211e-004	-6.078150e-004	-1.206464e-004
306	-1.816067e-004	-6.404233e-004	7.089210e-005
307	-1.699965e-004	-3.281530e-005	9.597766e-005
308	-1.645558e-004	2.976821e-004	1.077407e-004
309	2.215565e-004	4.920925e-004	-8.601433e-005
310	2.137946e-004	9.444647e-005	-1.000008e-004
311	1.981830e-004	-6.381737e-004	-1.244375e-004
312	-1.888584e-004	-6.705205e-004	9.591995e-005
313	-1.755890e-004	-6.532573e-006	1.226249e-004
314	-1.691865e-004	3.543722e-004	1.349595e-004
315	2.367903e-004	5.582704e-004	-9.150068e-005
316	2.300407e-004	1.351958e-004	-1.041554e-004
317	2.152280e-004	-6.458226e-004	-1.256397e-004
318	-1.938615e-004	-6.750215e-004	1.251827e-004
319	-1.800285e-004	4.924083e-005	1.515549e-004
320	-1.730300e-004	4.425460e-004	1.635054e-004
321	2.475797e-004	6.381469e-004	-9.943602e-005
322	2.426107e-004	1.943776e-004	-1.098095e-004
323	2.298025e-004	-6.263075e-004	-1.267052e-004
324	-1.971464e-004	-6.491372e-004	1.544746e-004
325	-1.839230e-004	1.341691e-004	1.785730e-004
326	-1.768824e-004	5.591862e-004	1.891508e-004
327	2.499577e-004	7.221494e-004	-1.126823e-004
328	2.481956e-004	2.641904e-004	-1.198916e-004
329	2.388869e-004	-5.854122e-004	-1.308756e-004
330	-2.002144e-004	-5.989005e-004	1.787612e-004
331	-1.895045e-004	2.376487e-004	1.980434e-004
332	-1.831770e-004	6.908511e-004	2.055825e-004
333	2.377052e-004	7.912425e-004	-1.348806e-004
334	2.417661e-004	3.288915e-004	-1.379035e-004
335	2.378954e-004	-5.352855e-004	-1.421173e-004
336	-2.056664e-004	-5.379499e-004	1.910170e-004
337	-1.998515e-004	3.366035e-004	2.016225e-004
338	-1.953448e-004	8.077792e-004	2.023988e-004
339	2.053502e-004	8.141092e-004	-1.704372e-004
340	2.155202e-004	3.591791e-004	-1.701175e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
341	2.184106e-004	-5.086139e-004	-1.747967e-004
342	-2.258940e-004	-5.033064e-004	1.767910e-004
343	-2.216383e-004	3.865086e-004	1.762456e-004
344	-2.190594e-004	8.554757e-004	1.659392e-004
345	1.676935e-004	7.578776e-004	-2.196966e-004
346	1.550383e-004	3.097757e-004	-2.140267e-004
347	1.729508e-004	-1.009106e-004	-2.323420e-004
348	1.882249e-004	-5.668530e-004	-2.483621e-004
349	-2.818929e-004	-5.648189e-004	1.385962e-004
350	-2.665002e-004	-9.804267e-005	1.219435e-004
351	-2.516382e-004	3.179701e-004	1.058287e-004
352	-2.589510e-004	7.676035e-004	1.093505e-004
353	1.409287e-004	6.686014e-004	-2.543318e-004
354	1.364442e-004	2.039607e-004	-2.697464e-004
355	1.374929e-004	-6.874426e-004	-2.826278e-004
356	-2.981007e-004	-6.990363e-004	8.530642e-005
357	-2.996892e-004	1.650700e-004	7.204127e-005
358	-2.900654e-004	6.156679e-004	6.909993e-005
359	1.209683e-004	5.369850e-004	-2.909016e-004
360	1.173019e-004	5.073932e-005	-3.047691e-004
361	1.093813e-004	-8.628512e-004	-3.138533e-004
362	-3.126761e-004	-8.949951e-004	5.402018e-005
363	-3.228326e-004	-5.905985e-005	4.331440e-005
364	-3.199676e-004	3.876674e-004	3.793250e-005
365	1.053689e-004	2.756970e-004	-3.264040e-004
366	1.025353e-004	-2.390295e-004	-3.336098e-004
367	9.389630e-005	-1.193828e-003	-3.403553e-004
368	-3.125316e-004	-1.265267e-003	3.438361e-005
369	-3.276700e-004	-4.867389e-004	2.165581e-005
370	-3.326238e-004	-6.526356e-005	1.478231e-005
371	1.046698e-004	-5.601976e-006	-3.342932e-004
372	1.059223e-004	-5.374922e-004	-3.366504e-004
373	1.040568e-004	-1.523089e-003	-3.365047e-004
374	-2.802429e-004	-1.636030e-003	4.255697e-005
375	-3.010782e-004	-9.279296e-004	2.565532e-005
376	-3.097355e-004	-5.439521e-004	1.685961e-005
377	1.129735e-004	-2.618332e-004	-3.226891e-004
378	1.186787e-004	-7.966794e-004	-3.206391e-004
379	1.255578e-004	-1.786922e-003	-3.125484e-004
380	-2.271944e-004	-1.934898e-003	6.273751e-005
381	-2.524157e-004	-1.309363e-003	4.282284e-005
382	-2.634359e-004	-9.698714e-004	3.300514e-005
383	1.251070e-004	-4.663868e-004	-2.995725e-004
384	1.344461e-004	-9.912059e-004	-2.940157e-004
385	1.487358e-004	-1.961730e-003	-2.802059e-004
386	-1.672189e-004	-2.134559e-003	8.397002e-005
387	-1.939359e-004	-1.592796e-003	6.394891e-005
388	-2.059758e-004	-1.298377e-003	5.441003e-005
389	1.374932e-004	-6.072804e-004	-2.704829e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
390	1.494443e-004	-1.110950e-003	-2.623238e-004
391	1.694175e-004	-2.040694e-003	-2.448401e-004
392	-1.079824e-004	-2.226969e-003	1.022026e-004
393	-1.339850e-004	-1.763625e-003	8.380685e-005
394	-1.459768e-004	-1.511414e-003	7.533069e-005
395	1.479809e-004	-6.827751e-004	-2.397365e-004
396	1.614018e-004	-1.157586e-003	-2.302806e-004
397	1.845100e-004	-2.032755e-003	-2.116085e-004
398	-5.603124e-005	-2.222777e-003	1.152089e-004
399	-7.908697e-005	-1.825888e-003	1.000231e-004
400	-8.992849e-005	-1.609491e-003	9.322360e-005
401	1.557219e-004	-6.975786e-004	-2.098924e-004
402	1.699406e-004	-1.138869e-003	-2.000849e-004
403	1.947273e-004	-1.951541e-003	-1.815433e-004
404	-1.207701e-005	-2.136966e-003	1.245925e-004
405	-3.143422e-005	-1.791700e-003	1.128626e-004
406	-4.065042e-005	-1.603251e-003	1.077149e-004
407	1.603508e-004	-6.596228e-004	-1.821775e-004
408	1.749915e-004	-1.064652e-003	-1.725388e-004
409	2.006986e-004	-1.810177e-003	-1.547329e-004
410	2.401447e-005	-1.983781e-003	1.312798e-004
411	8.321291e-006	-1.675713e-003	1.226305e-004
412	8.069500e-007	-1.507495e-003	1.188918e-004
413	1.616461e-004	-5.783224e-004	-1.571113e-004
414	1.764410e-004	-9.455914e-004	-1.479145e-004
415	2.025622e-004	-1.621366e-003	-1.311690e-004
416	5.242128e-005	-1.777162e-003	1.356285e-004
417	4.004867e-005	-1.493612e-003	1.295131e-004
418	3.411259e-005	-1.338789e-003	1.268996e-004
419	1.594522e-004	-4.637593e-004	-1.348810e-004
420	1.741678e-004	-7.927068e-004	-1.262780e-004
421	2.002729e-004	-1.397741e-003	-1.108016e-004
422	7.332097e-005	-1.531096e-003	1.377826e-004
423	6.378853e-005	-1.261594e-003	1.336382e-004
424	5.921701e-005	-1.114499e-003	1.318751e-004
425	1.536454e-004	-3.263005e-004	-1.155336e-004
426	1.680551e-004	-6.171913e-004	-1.076198e-004
427	1.937241e-004	-1.151972e-003	-9.356391e-005
428	8.687478e-005	-1.259706e-003	1.378002e-004
429	7.962811e-005	-9.961435e-004	1.351016e-004
430	7.616365e-005	-8.523842e-004	1.339377e-004
431	1.440924e-004	-1.764327e-004	-9.905426e-005
432	1.579933e-004	-4.303064e-004	-9.190400e-005
433	1.827951e-004	-8.967714e-004	-7.938208e-005
434	9.322181e-005	-9.772397e-004	1.356988e-004
435	8.765612e-005	-7.139256e-004	1.339754e-004
436	8.501026e-005	-5.704197e-004	1.331788e-004
437	1.305332e-004	-2.476932e-005	-8.534916e-005
438	1.438743e-004	-2.433149e-004	-7.907922e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
439	1.673741e-004	-6.448527e-004	-6.818108e-005
440	9.247595e-005	-6.980307e-004	1.314754e-004
441	8.794647e-005	-4.317141e-004	1.303047e-004
442	8.576629e-005	-2.867853e-004	1.295736e-004
443	1.124439e-004	1.176862e-004	-7.415786e-005
444	1.255774e-004	-6.742993e-005	-6.905622e-005
445	1.473883e-004	-4.088592e-004	-5.993695e-005
446	8.470991e-005	-4.364474e-004	1.251637e-004
447	8.056489e-005	-1.663509e-004	1.240555e-004
448	7.830650e-005	-2.018104e-005	1.227051e-004
449	9.893392e-005	2.006845e-004	-6.859593e-005
450	1.115738e-004	3.513798e-005	-6.391734e-005
451	1.321981e-004	-2.717365e-004	-5.675318e-005
452	7.591539e-005	-2.841501e-004	1.202971e-004
453	7.184436e-005	-1.218154e-005	1.184346e-004
454	6.914801e-005	1.337900e-004	1.165628e-004
455	8.523031e-005	2.733986e-004	-6.430180e-005
456	9.537204e-005	1.256349e-004	-5.866465e-005
457	1.056758e-004	-9.684098e-006	-5.767932e-005
458	1.154739e-004	-1.497570e-004	-5.605664e-005
459	6.379780e-005	-1.489287e-004	1.158899e-004
460	6.210114e-005	-1.026587e-005	1.130338e-004
461	6.041111e-005	1.235174e-004	1.103550e-004
462	5.778270e-005	2.685738e-004	1.103970e-004
463	6.347330e-005	3.613048e-004	-5.867520e-005
464	7.193194e-005	2.356296e-004	-5.598330e-005
465	8.824113e-005	3.181988e-006	-5.093838e-005
466	4.569603e-005	1.907406e-005	1.039480e-004
467	4.009447e-005	2.883672e-004	1.022548e-004
468	3.840948e-005	4.334351e-004	1.009832e-004
469	4.310690e-005	4.208436e-004	-5.444301e-005
470	5.057030e-005	3.135241e-004	-5.193657e-005
471	6.434938e-005	1.166989e-004	-4.765721e-005
472	2.902138e-005	1.427825e-004	9.443724e-005
473	2.254488e-005	4.048094e-004	9.315170e-005
474	1.980030e-005	5.469819e-004	9.224845e-005
475	2.527421e-005	4.542018e-004	-5.018979e-005
476	3.170668e-005	3.623600e-004	-4.801888e-005
477	4.329373e-005	1.944936e-004	-4.472532e-005
478	1.429372e-005	2.267642e-004	8.576992e-005
479	7.213300e-006	4.780237e-004	8.458112e-005
480	3.974300e-006	6.145390e-004	8.384015e-005
481	9.947409e-006	4.646588e-004	-4.612475e-005
482	1.534715e-005	3.853403e-004	-4.440861e-005
483	2.498107e-005	2.405067e-004	-4.195407e-005
484	1.573385e-006	2.756682e-004	7.773775e-005
485	-5.956155e-006	5.132421e-004	7.666935e-005
486	-9.440185e-006	6.423352e-004	7.602353e-005
487	-3.002484e-006	4.553896e-004	-4.241197e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
488	1.451826e-006	3.858348e-004	-4.111224e-005
489	9.363503e-006	2.588518e-004	-3.932358e-005
490	-9.121493e-006	2.942211e-004	7.028289e-005
491	-1.695836e-005	5.157553e-004	6.938250e-005
492	-2.059548e-005	6.361333e-004	6.884251e-005
493	-1.364922e-005	4.295583e-004	-3.907744e-005
494	-1.002152e-005	3.673573e-004	-3.811685e-005
495	-3.601453e-006	2.537777e-004	-3.683972e-005
496	-1.777202e-005	2.872185e-004	6.336169e-005
497	-2.577572e-005	4.909150e-004	6.266659e-005
498	-2.949780e-005	6.016039e-004	6.224922e-005
499	-2.203719e-005	3.904135e-004	-3.610544e-005
500	-1.911143e-005	3.335401e-004	-3.541103e-005
501	-1.395386e-005	2.296387e-004	-3.451563e-005
502	-2.435575e-005	2.595166e-004	5.692954e-005
503	-3.238625e-005	4.441295e-004	5.646337e-005
504	-3.612656e-005	5.444542e-004	5.617933e-005
505	-2.819783e-005	3.413025e-004	-3.347727e-005
506	-2.585111e-005	2.881122e-004	-3.298789e-005
507	-2.173001e-005	1.908699e-004	-3.236897e-005
508	-2.884880e-005	2.160210e-004	5.093888e-005
509	-3.676696e-005	3.808529e-004	5.071172e-005
510	-4.045897e-005	4.704354e-004	5.056528e-005
511	-3.214854e-005	2.856650e-004	-3.118536e-005
512	-3.026761e-005	2.348808e-004	-3.084558e-005
513	-2.696042e-005	1.419690e-004	-3.042101e-005
514	-3.122877e-005	1.616705e-004	4.533900e-005
515	-3.889647e-005	3.065697e-004	4.534818e-005
516	-4.247193e-005	3.853293e-004	4.533944e-005
517	-3.387724e-005	2.270435e-004	-2.925678e-005
518	-3.238132e-005	1.777148e-004	-2.898906e-005
519	-2.966776e-005	8.748302e-005	-2.869342e-005
520	-3.147794e-005	1.014158e-004	4.007562e-005
521	-3.875691e-005	2.267749e-004	4.030940e-005
522	-4.212867e-005	2.949474e-004	4.045086e-005
523	-3.334534e-005	1.691274e-004	-2.778212e-005
524	-3.220651e-005	1.205314e-004	-2.744800e-005
525	-2.986413e-005	3.200114e-005	-2.718843e-005
526	-2.958692e-005	4.019205e-005	3.508139e-005
527	-3.633404e-005	1.469521e-004	3.554752e-005
528	-3.934412e-005	2.051899e-004	3.591631e-005
529	-3.077518e-005	1.156165e-004	-2.670196e-005
530	-2.975956e-005	6.728622e-005	-2.642751e-005
531	-2.754147e-005	-1.985151e-005	-2.574433e-005
532	-2.556525e-005	-1.711427e-005	3.017763e-005
533	-3.160604e-005	7.255173e-005	3.115341e-005
534	-3.423896e-005	1.219826e-004	3.172225e-005
535	-2.937161e-005	9.617244e-005	-2.614637e-005
536	-2.817437e-005	4.800617e-005	-2.659512e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
537	-2.700962e-005	3.571830e-006	-2.567820e-005
538	-2.587654e-005	-3.858840e-005	-2.478396e-005
539	-2.341047e-005	-3.798131e-005	2.790867e-005
540	-2.623415e-005	2.949813e-006	2.902394e-005
541	-2.900081e-005	4.566462e-005	2.994321e-005
542	-3.169296e-005	9.207676e-005	3.003412e-005
543	-2.532881e-005	5.320654e-005	-2.503512e-005
544	-2.379541e-005	6.558482e-006	-2.488928e-005
545	-2.161476e-005	-7.820945e-005	-2.469844e-005
546	-1.770449e-005	-8.232405e-005	2.427312e-005
547	-2.260184e-005	-1.259728e-005	2.513096e-005
548	-2.508383e-005	2.572192e-005	2.575403e-005
549	-2.119898e-005	1.870917e-005	-2.387079e-005
550	-1.983935e-005	-2.625181e-005	-2.391375e-005
551	-1.765195e-005	-1.086447e-004	-2.401786e-005
552	-1.254348e-005	-1.167697e-004	2.046180e-005
553	-1.673529e-005	-5.883283e-005	2.122373e-005
554	-1.873321e-005	-2.722078e-005	2.169476e-005
555	-1.751568e-005	-7.907577e-006	-2.290312e-005
556	-1.624105e-005	-5.116212e-005	-2.307057e-005
557	-1.403076e-005	-1.306579e-004	-2.329772e-005
558	-7.893104e-006	-1.419369e-004	1.695636e-005
559	-1.143076e-005	-9.384774e-005	1.771582e-005
560	-1.307847e-005	-6.764090e-005	1.813436e-005
561	-1.424311e-005	-2.751296e-005	-2.202887e-005
562	-1.298346e-005	-6.889590e-005	-2.226253e-005
563	-1.075156e-005	-1.450146e-004	-2.258955e-005
564	-3.746894e-006	-1.585347e-004	1.380594e-005
565	-6.685026e-006	-1.185140e-004	1.454773e-005
566	-8.046634e-006	-9.669313e-005	1.494664e-005
567	-1.132098e-005	-4.087655e-005	-2.117589e-005
568	-1.005888e-005	-8.017543e-005	-2.145917e-005
569	-7.811458e-006	-1.524822e-004	-2.188132e-005
570	-9.649838e-008	-1.673423e-004	1.101327e-005
571	-2.489292e-006	-1.337641e-004	1.171355e-005
572	-3.596142e-006	-1.154423e-004	1.208764e-005
573	-8.725146e-006	-4.871124e-005	-2.031296e-005
574	-7.462392e-006	-8.572535e-005	-2.064083e-005
575	-5.209975e-006	-1.538373e-004	-2.115422e-005
576	3.069943e-006	-1.691923e-004	8.575220e-006
577	1.167114e-006	-1.405837e-004	9.213686e-006
578	2.883341e-007	-1.249634e-004	9.553495e-006
579	-6.446599e-006	-5.171473e-005	-1.942372e-005
580	-5.190871e-006	-8.627475e-005	-1.979191e-005
581	-2.948904e-006	-1.498713e-004	-2.039055e-005
582	5.765860e-006	-1.649572e-004	6.486229e-006
583	4.295587e-006	-1.400035e-004	7.047979e-006
584	3.617620e-006	-1.263729e-004	7.346184e-006
585	-4.480669e-006	-5.058170e-005	-1.849747e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
586	-3.242565e-006	-8.255799e-005	-1.890022e-005
587	-1.031355e-006	-1.413924e-004	-1.957513e-005
588	8.004283e-006	-1.555409e-004	4.738564e-006
589	6.907080e-006	-1.330913e-004	5.214684e-006
590	6.401677e-006	-1.208279e-004	5.466787e-006
591	-2.824245e-006	-4.600504e-005	-1.752725e-005
592	-1.616645e-006	-7.531380e-005	-1.795693e-005
593	5.392054e-007	-1.292244e-004	-1.869556e-005
594	9.796186e-006	-1.418720e-004	3.322672e-006
595	9.010833e-006	-1.209466e-004	3.710541e-006
596	8.648941e-006	-1.095202e-004	3.915025e-006
597	-1.475095e-006	-3.867399e-005	-1.650940e-005
598	-3.126737e-007	-6.528261e-005	-1.695647e-005
599	1.759858e-006	-1.142032e-004	-1.774242e-005
600	1.114908e-005	-1.249009e-004	2.227841e-006
601	1.061319e-005	-1.046969e-004	2.531340e-006
602	1.036525e-005	-9.367322e-005	2.689793e-006
603	-4.315095e-007	-2.927082e-005	-1.544322e-005
604	6.699159e-007	-5.320221e-005	-1.589625e-005
605	2.629197e-006	-9.717022e-005	-1.670932e-005
606	1.206580e-005	-1.055982e-004	1.443141e-006
607	1.171665e-005	-8.549575e-005	1.672755e-006
608	1.155306e-005	-7.453917e-005	1.789952e-006
609	3.079321e-007	-1.846657e-005	-1.433052e-005
610	1.332314e-006	-3.980217e-005	-1.477595e-005
611	3.148478e-006	-7.896357e-005	-1.559291e-005
612	1.254357e-005	-8.495613e-005	9.587356e-007
613	1.231927e-005	-6.452280e-005	1.131406e-006
614	1.221067e-005	-5.339910e-005	1.215207e-006
615	7.435894e-007	-6.916965e-006	-1.317383e-005
616	1.676668e-006	-2.579765e-005	-1.359637e-005
617	3.323143e-006	-6.040636e-005	-1.439240e-005
618	1.257361e-005	-6.399145e-005	7.677228e-007
619	1.241470e-005	-4.298505e-005	9.058952e-007
620	1.232868e-005	-3.156554e-005	9.660080e-007
621	8.684920e-007	4.732201e-006	-1.196417e-005
622	1.704828e-006	-1.188407e-005	-1.236021e-005
623	3.164331e-006	-4.229255e-005	-1.310904e-005
624	1.214222e-005	-4.375042e-005	8.689337e-007
625	1.199120e-005	-2.211798e-005	9.952594e-007
626	1.187558e-005	-1.039989e-005	1.038965e-006
627	7.100816e-007	1.557466e-005	-1.072129e-005
628	1.436514e-006	7.182159e-007	-1.112011e-005
629	2.715733e-006	-2.660982e-005	-1.183133e-005
630	1.134685e-005	-2.674571e-005	1.232853e-006
631	1.116298e-005	-5.163168e-006	1.323788e-006
632	1.097353e-005	6.424366e-006	1.355630e-006
633	2.835995e-007	2.506453e-005	-9.476493e-006
634	9.243260e-007	1.176478e-005	-9.754693e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
635	1.433897e-006	-4.491449e-007	-1.016497e-005
636	1.954425e-006	-1.283379e-005	-1.054578e-005
637	1.022382e-005	-1.183359e-005	1.971842e-006
638	1.002699e-005	-8.997343e-007	1.879426e-006
639	9.829121e-006	9.613331e-006	1.783248e-006
640	9.761416e-006	2.098355e-005	1.900703e-006
641	-3.060500e-007	3.294507e-005	-8.267039e-006
642	1.803481e-007	2.088685e-005	-8.551786e-006
643	1.154557e-006	-1.314049e-006	-9.117334e-006
644	8.765759e-006	3.818453e-007	2.496419e-006
645	8.520890e-006	2.156877e-005	2.624537e-006
646	8.428015e-006	3.293624e-005	2.595712e-006
647	-9.572586e-007	3.899217e-005	-7.146042e-006
648	-5.148339e-007	2.800610e-005	-7.387593e-006
649	3.308833e-007	7.863789e-006	-7.860855e-006
650	7.507476e-006	9.904772e-006	3.065042e-006
651	7.265118e-006	3.071627e-005	3.249837e-006
652	7.147435e-006	4.198139e-005	3.297031e-006
653	-1.574425e-006	4.326534e-005	-6.114599e-006
654	-1.184927e-006	3.321539e-005	-6.318513e-006
655	-4.670057e-007	1.481473e-005	-6.722173e-006
656	6.371275e-006	1.698967e-005	3.577334e-006
657	6.119566e-006	3.733583e-005	3.780279e-006
658	5.990438e-006	4.837788e-005	3.864272e-006
659	-2.154873e-006	4.588628e-005	-5.180151e-006
660	-1.824062e-006	3.662824e-005	-5.352033e-006
661	-1.222120e-006	1.967978e-005	-5.693660e-006
662	5.340796e-006	2.186986e-005	4.027978e-006
663	5.085331e-006	4.168459e-005	4.239390e-006
664	4.953583e-006	5.244534e-005	4.334733e-006
665	-2.698497e-006	4.698229e-005	-4.345077e-006
666	-2.423211e-006	3.837680e-005	-4.488162e-006
667	-1.924311e-006	2.261958e-005	-4.773010e-006
668	4.409754e-006	2.476184e-005	4.422539e-006
669	4.157529e-006	4.400116e-005	4.636659e-006
670	4.027885e-006	5.445254e-005	4.735518e-006
671	-3.199809e-006	4.668905e-005	-3.608968e-006
672	-2.974312e-006	3.860882e-005	-3.725639e-006
673	-2.566421e-006	2.380919e-005	-3.958252e-006
674	3.574643e-006	2.586965e-005	4.766411e-006
675	3.331755e-006	4.450928e-005	4.978402e-006
676	3.207372e-006	5.463733e-005	5.077647e-006
677	-3.652297e-006	4.515375e-005	-2.970656e-006
678	-3.470870e-006	3.748473e-005	-3.063024e-006
679	-3.143302e-006	2.343399e-005	-3.247470e-006
680	2.833225e-006	2.538830e-005	5.063580e-006
681	2.604677e-006	4.342112e-005	5.269247e-006
682	2.488050e-006	5.322155e-005	5.366618e-006
683	-4.050413e-006	4.253417e-005	-2.428734e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
684	-3.907882e-006	3.517484e-005	-2.498877e-006
685	-3.651198e-006	2.168699e-005	-2.638959e-006
686	2.183933e-006	2.350631e-005	5.316822e-006
687	1.973920e-006	4.094005e-005	5.512512e-006
688	1.867187e-006	5.041682e-005	5.606020e-006
689	-4.389936e-006	3.899625e-005	-1.981444e-006
690	-4.281579e-006	3.185697e-005	-2.031631e-006
691	-4.087178e-006	1.876707e-005	-2.131261e-006
692	1.625597e-006	2.040717e-005	5.528117e-006
693	1.437964e-006	3.726297e-005	5.710520e-006
694	1.343134e-006	4.642757e-005	5.798339e-006
695	-4.667830e-006	3.471144e-005	-1.626495e-006
696	-4.589144e-006	2.771424e-005	-1.659250e-006
697	-4.448639e-006	1.487805e-005	-1.722969e-006
698	1.157437e-006	1.627038e-005	5.698989e-006
699	9.961599e-007	3.258225e-005	5.864920e-006
700	9.153884e-007	4.145356e-005	5.945263e-006
701	-4.882012e-006	2.985439e-005	-1.361555e-006
702	-4.828509e-006	2.293277e-005	-1.378755e-006
703	-4.732907e-006	1.022799e-005	-1.412256e-006
704	7.793047e-007	1.127236e-005	5.830438e-006
705	6.487301e-007	2.708744e-005	5.976955e-006
706	5.853075e-007	3.569250e-005	6.048066e-006
707	-5.031300e-006	2.460270e-005	-1.186820e-006
708	-4.998563e-006	1.769897e-005	-1.185991e-006
709	-4.936748e-006	5.028357e-006	-1.195781e-006
710	4.919100e-007	5.588511e-006	5.921650e-006
711	3.966102e-007	2.096645e-005	6.047831e-006
712	3.589064e-007	2.934448e-005	6.108587e-006
713	-5.116858e-006	1.913957e-005	-1.106085e-006
714	-5.101726e-006	1.219619e-005	-1.078088e-006
715	-5.054175e-006	-5.079337e-007	-1.064786e-006
716	2.951726e-007	-6.017248e-007	5.964211e-006
717	2.420497e-007	1.440540e-005	6.081342e-006
718	2.477843e-007	2.261880e-005	6.132148e-006
719	-5.147851e-006	1.363977e-005	-1.094197e-006
720	-5.163124e-006	6.601034e-006	-1.075935e-006
721	-5.112560e-006	1.414785e-007	-1.030780e-006
722	-5.059974e-006	-6.170681e-006	-9.831054e-007
723	1.728479e-007	-7.102945e-006	5.916558e-006
724	1.898036e-007	1.540748e-007	6.013657e-006
725	2.057226e-007	7.584499e-006	6.108824e-006
726	2.211340e-007	1.571109e-005	6.133637e-006

Prueba de carga 9

Desplazamientos de nudos

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
1	2.021609e-006	6.495924e-006	-7.303073e-007
2	2.010488e-006	3.089109e-006	-7.530380e-007
3	2.026419e-006	-5.314465e-008	-7.646491e-007
4	2.040068e-006	-3.232131e-006	-7.762602e-007
5	-2.042156e-006	-3.235644e-006	-7.730749e-007
6	-2.028472e-006	-5.338877e-008	-7.614713e-007
7	-2.012452e-006	3.091974e-006	-7.498677e-007
8	-2.023546e-006	6.502089e-006	-7.271392e-007
9	2.046766e-006	5.097500e-006	-7.034157e-007
10	2.045697e-006	1.639575e-006	-7.260207e-007
11	2.036126e-006	-4.734184e-006	-7.563450e-007
12	-2.038147e-006	-4.731353e-006	-7.529625e-007
13	-2.047680e-006	1.648675e-006	-7.227676e-007
14	-2.048624e-006	5.109830e-006	-7.002676e-007
15	2.079342e-006	3.805143e-006	-6.207729e-007
16	2.073599e-006	2.948533e-007	-6.470907e-007
17	2.059193e-006	-6.158039e-006	-6.945724e-007
18	-2.061070e-006	-6.148050e-006	-6.905485e-007
19	-2.075323e-006	3.104606e-007	-6.436476e-007
20	-2.080840e-006	3.823449e-006	-6.177387e-007
21	2.120156e-006	2.731041e-006	-4.833980e-007
22	2.112434e-006	-8.467455e-007	-5.191362e-007
23	2.097119e-006	-7.419242e-006	-5.881074e-007
24	-2.098415e-006	-7.400336e-006	-5.829690e-007
25	-2.113401e-006	-8.243309e-007	-5.155755e-007
26	-2.120709e-006	2.754693e-006	-4.808100e-007
27	2.174519e-006	1.978495e-006	-2.955134e-007
28	2.166054e-006	-1.690575e-006	-3.430951e-007
29	2.150170e-006	-8.429537e-006	-4.358211e-007
30	-2.150028e-006	-8.399091e-006	-4.292169e-007
31	-2.165337e-006	-1.661529e-006	-3.398262e-007
32	-2.173123e-006	2.005673e-006	-2.941700e-007
33	2.244961e-006	1.644798e-006	-5.848256e-008
34	2.235969e-006	-2.142921e-006	-1.190375e-007
35	2.219416e-006	-9.099138e-006	-2.372154e-007
36	-2.216403e-006	-9.054066e-006	-2.291083e-007
37	-2.232048e-006	-2.108775e-006	-1.170349e-007
38	-2.240021e-006	1.671330e-006	-5.987598e-008
39	2.332948e-006	1.826171e-006	2.279151e-007
40	2.323330e-006	-2.109757e-006	1.534008e-007
41	2.305934e-006	-9.337462e-006	8.071409e-009
42	-2.297867e-006	-9.275066e-006	1.712227e-008
43	-2.313929e-006	-2.074795e-006	1.523026e-007
44	-2.322111e-006	1.843853e-006	2.213038e-007
45	2.440486e-006	2.620438e-006	5.651365e-007
46	2.429402e-006	-1.496034e-006	4.748825e-007

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
47	2.410847e-006	-9.053168e-006	3.004884e-007
48	-2.394624e-006	-8.972666e-006	3.089193e-007
49	-2.411327e-006	-1.469324e-006	4.676312e-007
50	-2.420446e-006	2.614705e-006	5.494517e-007
51	2.572967e-006	4.131247e-006	9.576763e-007
52	2.556120e-006	-2.051357e-007	8.463426e-007
53	2.534958e-006	-8.153869e-006	6.406848e-007
54	-2.506489e-006	-8.058863e-006	6.453704e-007
55	-2.525131e-006	-2.032921e-007	8.282743e-007
56	-2.539087e-006	4.077899e-006	9.271061e-007
57	2.741158e-006	6.475638e-006	1.411713e-006
58	2.709907e-006	1.861694e-006	1.269042e-006
59	2.675051e-006	-6.545717e-006	1.029520e-006
60	-2.629716e-006	-6.447898e-006	1.025086e-006
61	-2.660366e-006	1.810992e-006	1.233502e-006
62	-2.687048e-006	6.336373e-006	1.358117e-006
63	2.924115e-006	9.753394e-006	1.886638e-006
64	2.933871e-006	4.806231e-006	1.744879e-006
65	2.866381e-006	2.596704e-007	1.606359e-006
66	2.791741e-006	-4.133160e-006	1.467840e-006
67	-2.728432e-006	-4.057419e-006	1.445957e-006
68	-2.795168e-006	2.326423e-007	1.564442e-006
69	-2.855313e-006	4.660078e-006	1.682926e-006
70	-2.845249e-006	9.474301e-006	1.804329e-006
71	3.042065e-006	1.230086e-005	2.166714e-006
72	3.006672e-006	7.178826e-006	2.032011e-006
73	2.957526e-006	-2.132623e-006	1.727927e-006
74	-2.871529e-006	-2.091532e-006	1.694098e-006
75	-2.915341e-006	6.942834e-006	1.952113e-006
76	-2.946020e-006	1.190528e-005	2.065628e-006
77	3.154700e-006	1.517746e-005	2.402844e-006
78	3.126578e-006	9.865238e-006	2.246522e-006
79	3.097969e-006	1.480091e-007	1.916571e-006
80	-2.990627e-006	1.421555e-007	1.874762e-006
81	-3.016476e-006	9.519906e-006	2.153396e-006
82	-3.041028e-006	1.464253e-005	2.285160e-006
83	3.361426e-006	1.995607e-005	2.616320e-006
84	3.344152e-006	1.428749e-005	2.432571e-006
85	3.319146e-006	3.884231e-006	2.066492e-006
86	-3.176846e-006	3.795780e-006	2.018284e-006
87	-3.200306e-006	1.375240e-005	2.327321e-006
88	-3.215697e-006	1.917605e-005	2.482883e-006
89	3.601871e-006	2.498787e-005	2.665744e-006
90	3.587479e-006	1.891087e-005	2.459511e-006
91	3.561846e-006	7.748872e-006	2.055812e-006
92	-3.381750e-006	7.571487e-006	2.006751e-006
93	-3.406681e-006	1.817042e-005	2.349762e-006
94	-3.420180e-006	2.394102e-005	2.525611e-006
95	3.869955e-006	2.996826e-005	2.554935e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
96	3.855454e-006	2.343816e-005	2.327895e-006
97	3.828453e-006	1.144167e-005	1.884936e-006
98	-3.608985e-006	1.117826e-005	1.839629e-006
99	-3.635987e-006	2.249012e-005	2.220284e-006
100	-3.650197e-006	2.864906e-005	2.415915e-006
101	4.164400e-006	3.460012e-005	2.286549e-006
102	4.149026e-006	2.757299e-005	2.038090e-006
103	4.120298e-006	1.466263e-005	1.553774e-006
104	-3.861069e-006	1.432451e-005	1.516830e-006
105	-3.890274e-006	2.642709e-005	1.938700e-006
106	-3.905633e-006	3.301696e-005	2.155395e-006
107	4.486409e-006	3.859007e-005	1.861771e-006
108	4.469773e-006	3.101963e-005	1.590366e-006
109	4.438924e-006	1.711114e-005	1.061780e-006
110	-4.140229e-006	1.671887e-005	1.038658e-006
111	-4.171650e-006	2.969672e-005	1.504985e-006
112	-4.188068e-006	3.676318e-005	1.744273e-006
113	4.838339e-006	4.164687e-005	1.281661e-006
114	4.819953e-006	3.348290e-005	9.850559e-007
115	4.786470e-006	1.848514e-005	4.080584e-007
116	-4.448383e-006	1.807088e-005	4.057304e-007
117	-4.481927e-006	3.201436e-005	9.191001e-007
118	-4.499148e-006	3.960602e-005	1.182197e-006
119	5.223602e-006	4.348195e-005	5.478248e-007
120	5.202785e-006	3.466860e-005	2.228276e-007
121	5.165990e-006	1.848064e-005	-4.084941e-007
122	-4.786913e-006	1.809144e-005	-3.811576e-007
123	-4.822337e-006	3.309501e-005	1.806949e-007
124	-4.839922e-006	4.126240e-005	4.681723e-007
125	5.646764e-006	4.381091e-005	-3.372572e-007
126	5.622841e-006	3.428451e-005	-6.948780e-007
127	5.581871e-006	1.679142e-005	-1.388961e-006
128	-5.156324e-006	1.649306e-005	-1.321249e-006
129	-5.193122e-006	3.265231e-005	-7.113294e-007
130	-5.210014e-006	4.144590e-005	-4.003201e-007
131	6.112459e-006	4.235472e-005	-1.370917e-006
132	6.086463e-006	3.204250e-005	-1.765191e-006
133	6.040554e-006	1.310937e-005	-2.534070e-006
134	-5.555905e-006	1.298948e-005	-2.414151e-006
135	-5.592761e-006	3.039654e-005	-1.759480e-006
136	-5.604632e-006	3.986124e-005	-1.430337e-006
137	6.621152e-006	3.883733e-005	-2.552676e-006
138	6.601420e-006	2.766206e-005	-2.982826e-006
139	6.552539e-006	7.125496e-006	-3.843739e-006
140	-5.984502e-006	7.294673e-006	-3.660253e-006
141	-6.015490e-006	2.603104e-005	-2.968677e-006
142	-6.005234e-006	3.618789e-005	-2.641147e-006
143	7.175273e-006	3.298721e-005	-3.870179e-006
144	7.168883e-006	2.087631e-005	-4.338634e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
145	7.142928e-006	-1.468198e-006	-5.316555e-006
146	-6.451967e-006	-8.788365e-007	-5.061061e-006
147	-6.437015e-006	1.924619e-005	-4.347942e-006
148	-6.375926e-006	3.005342e-005	-4.057563e-006
149	7.887359e-006	2.465691e-005	-5.170529e-006
150	7.710130e-006	1.144099e-005	-5.817676e-006
151	7.829517e-006	-6.295504e-007	-6.383521e-006
152	7.927412e-006	-1.297592e-005	-6.949367e-006
153	-7.080537e-006	-1.182176e-005	-6.618870e-006
154	-6.903795e-006	-8.406293e-007	-6.266321e-006
155	-6.708973e-006	9.708677e-006	-5.913771e-006
156	-6.780248e-006	2.112855e-005	-5.558962e-006
157	8.466342e-006	1.781145e-005	-5.900853e-006
158	8.344533e-006	3.599056e-006	-6.741232e-006
159	8.263298e-006	-2.235310e-005	-8.018049e-006
160	-7.222807e-006	-2.072934e-005	-7.596184e-006
161	-7.147191e-006	1.685799e-006	-6.920010e-006
162	-7.039395e-006	1.363585e-005	-6.505460e-006
163	8.984403e-006	1.256108e-005	-6.264238e-006
164	8.854507e-006	-3.216022e-006	-7.315270e-006
165	8.630677e-006	-3.219192e-005	-8.886562e-006
166	-7.513965e-006	-3.146735e-005	-8.382648e-006
167	-7.493309e-006	-9.738593e-006	-7.873521e-006
168	-7.426168e-006	2.008179e-006	-7.616864e-006
169	9.813643e-006	5.158697e-006	-7.108029e-006
170	9.723865e-006	-1.281995e-005	-8.086804e-006
171	9.452276e-006	-4.603284e-005	-9.834085e-006
172	-7.860345e-006	-4.892257e-005	-9.093360e-006
173	-7.855535e-006	-2.804047e-005	-8.633964e-006
174	-7.853023e-006	-1.666254e-005	-8.394823e-006
175	1.089168e-005	-5.143818e-006	-7.639370e-006
176	1.074802e-005	-2.500682e-005	-8.616736e-006
177	1.044428e-005	-6.155462e-005	-1.048190e-005
178	-8.172788e-006	-6.671138e-005	-9.389167e-006
179	-8.171460e-006	-4.494834e-005	-8.869337e-006
180	-8.171839e-006	-3.308404e-005	-8.594683e-006
181	1.202974e-005	-1.576676e-005	-7.770709e-006
182	1.186960e-005	-3.755636e-005	-8.781188e-006
183	1.155391e-005	-7.764040e-005	-1.074581e-005
184	-8.485829e-006	-8.476838e-005	-9.321928e-006
185	-8.486419e-006	-6.198461e-005	-8.707329e-006
186	-8.488335e-006	-4.955048e-005	-8.381335e-006
187	1.325396e-005	-2.602310e-005	-7.527905e-006
188	1.309018e-005	-4.981457e-005	-8.578949e-006
189	1.276525e-005	-9.360082e-005	-1.062584e-005
190	-8.818239e-006	-1.024675e-004	-8.887845e-006
191	-8.815889e-006	-7.846223e-005	-8.146727e-006
192	-8.819396e-006	-6.534767e-005	-7.755333e-006
193	1.456761e-005	-3.526059e-005	-6.924466e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
194	1.440194e-005	-6.112921e-005	-8.012778e-006
195	1.406796e-005	-1.087564e-004	-1.012929e-005
196	-9.186404e-006	-1.191739e-004	-8.076959e-006
197	-9.176725e-006	-9.369104e-005	-7.180898e-006
198	-9.179751e-006	-7.975823e-005	-6.710107e-006
199	1.596646e-005	-4.284522e-005	-5.968632e-006
200	1.579799e-005	-7.085862e-005	-7.090387e-006
201	1.545445e-005	-1.224466e-004	-9.268391e-006
202	-9.604349e-006	-1.342351e-004	-6.875021e-006
203	-9.583563e-006	-1.069689e-004	-5.798680e-006
204	-9.583486e-006	-9.205384e-005	-5.235698e-006
205	1.744694e-005	-4.815826e-005	-4.669778e-006
206	1.727363e-005	-7.837928e-005	-5.823643e-006
207	1.691907e-005	-1.340377e-004	-8.059583e-006
208	-1.008413e-005	-1.469732e-004	-5.264117e-006
209	-1.004861e-005	-1.175743e-004	-3.985297e-006
210	-1.004258e-005	-1.014897e-004	-3.319378e-006
211	1.900991e-005	-5.059813e-005	-3.038562e-006
212	1.882694e-005	-8.309165e-005	-4.227634e-006
213	1.845815e-005	-1.429287e-004	-6.523002e-006
214	-1.063592e-005	-1.566791e-004	-3.223197e-006
215	-1.058149e-005	-1.247601e-004	-1.723345e-006
216	-1.056537e-005	-1.073005e-004	-9.474281e-007
217	2.066584e-005	-4.957823e-005	-1.084257e-006
218	2.046000e-005	-8.442424e-005	-2.319899e-006
219	2.006991e-005	-1.485565e-004	-4.681210e-006
220	-1.126844e-005	-1.626071e-004	-7.293655e-007
221	-1.118838e-005	-1.277494e-004	1.006256e-006
222	-1.115334e-005	-1.087013e-004	1.891512e-006
223	2.243776e-005	-4.452207e-005	1.180780e-006
224	2.218593e-005	-8.183638e-005	-1.206145e-007
225	2.175387e-005	-1.503976e-004	-2.555902e-006
226	-1.198953e-005	-1.639742e-004	2.238924e-006
227	-1.186484e-005	-1.257327e-004	4.222718e-006
228	-1.179827e-005	-1.048901e-004	5.208883e-006
229	2.423534e-005	-3.541578e-005	3.612293e-006
230	2.397010e-005	-7.503046e-005	2.243548e-006
231	2.347053e-005	-1.478184e-004	-2.056931e-007
232	-1.283335e-005	-1.599952e-004	5.759074e-006
233	-1.261329e-005	-1.175028e-004	8.104037e-006
234	-1.253510e-005	-9.436075e-005	9.229432e-006
235	2.608821e-005	-2.147410e-005	6.115057e-006
236	2.580232e-005	-6.308949e-005	4.747261e-006
237	2.522930e-005	-1.395960e-004	2.358574e-006
238	-1.382514e-005	-1.502033e-004	9.854536e-006
239	-1.345749e-005	-1.020973e-004	1.269166e-005
240	-1.333378e-005	-7.588845e-005	1.404536e-005
241	2.808981e-005	-1.858005e-006	8.829681e-006
242	2.773622e-005	-4.530351e-005	7.462770e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
243	2.708263e-005	-1.251150e-004	5.141199e-006
244	-1.493675e-005	-1.338992e-004	1.451284e-005
245	-1.438292e-005	-7.879380e-005	1.789012e-005
246	-1.418904e-005	-4.876759e-005	1.951472e-005
247	3.030621e-005	2.395781e-005	1.178934e-005
248	2.979489e-005	-2.118823e-005	1.038566e-005
249	2.903805e-005	-1.038591e-004	8.143030e-006
250	-1.616113e-005	-1.103567e-004	1.973799e-005
251	-1.539693e-005	-4.671645e-005	2.370966e-005
252	-1.514920e-005	-1.196533e-005	2.569919e-005
253	3.279399e-005	5.656799e-005	1.497322e-005
254	3.206649e-005	9.737687e-006	1.349473e-005
255	3.103510e-005	-7.531300e-005	1.138410e-005
256	-1.744736e-005	-7.890167e-005	2.551713e-005
257	-1.656444e-005	-5.028643e-006	3.017972e-005
258	-1.630516e-005	3.563851e-005	3.269303e-005
259	3.511392e-005	9.627095e-005	1.800107e-005
260	3.506230e-005	4.796116e-005	1.664760e-005
261	3.380548e-005	3.441044e-006	1.581623e-005
262	3.258849e-005	-3.896861e-005	1.500597e-005
263	-1.834413e-005	-3.892096e-005	3.171612e-005
264	-1.843600e-005	3.157750e-006	3.464874e-005
265	-1.836570e-005	4.706676e-005	3.746036e-005
266	-1.752057e-005	9.484745e-005	3.993378e-005
267	3.670659e-005	1.288254e-004	1.973332e-005
268	3.604282e-005	8.020976e-005	1.886283e-005
269	3.474046e-005	-7.777266e-006	1.685398e-005
270	-2.024907e-005	-4.558899e-006	3.626580e-005
271	-1.885260e-005	9.124215e-005	4.219672e-005
272	-1.845600e-005	1.439650e-004	4.483156e-005
273	3.798573e-005	1.642328e-004	2.098186e-005
274	3.725589e-005	1.154191e-004	1.998236e-005
275	3.614835e-005	2.646973e-005	1.781406e-005
276	-2.215899e-005	3.318445e-005	3.984958e-005
277	-2.024321e-005	1.397213e-004	4.613695e-005
278	-1.954346e-005	1.978622e-004	4.904132e-005
279	3.951687e-005	2.176355e-004	2.117564e-005
280	3.874202e-005	1.681338e-004	1.988078e-005
281	3.751320e-005	7.756597e-005	1.745877e-005
282	-2.555022e-005	8.953286e-005	4.348856e-005
283	-2.323853e-005	2.127725e-004	5.021218e-005
284	-2.221045e-005	2.798228e-004	5.336623e-005
285	4.070619e-005	2.721557e-004	1.945291e-005
286	3.976496e-005	2.214246e-004	1.786920e-005
287	3.825975e-005	1.285640e-004	1.504193e-005
288	-2.984955e-005	1.459799e-004	4.546513e-005
289	-2.719375e-005	2.868902e-004	5.251009e-005
290	-2.594452e-005	3.634994e-004	5.582299e-005
291	4.149168e-005	3.248757e-004	1.585016e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
292	4.029078e-005	2.721934e-004	1.394349e-005
293	3.838925e-005	1.758255e-004	1.054842e-005
294	-3.509836e-005	1.985579e-004	4.581299e-005
295	-3.213098e-005	3.576610e-004	5.305804e-005
296	-3.070692e-005	4.441429e-004	5.645729e-005
297	4.185035e-005	3.729696e-004	1.038806e-005
298	4.030943e-005	3.173642e-004	8.086910e-006
299	3.788136e-005	2.157298e-004	3.964076e-006
300	-4.132771e-005	2.432957e-004	4.456579e-005
301	-3.808800e-005	4.206678e-004	5.189137e-005
302	-3.651306e-005	5.170680e-004	5.531667e-005
303	4.178033e-005	4.136838e-004	3.054818e-006
304	3.981482e-005	3.538945e-004	2.770470e-007
305	3.671240e-005	2.446815e-004	-4.729157e-006
306	-4.856510e-005	2.762335e-004	4.175743e-005
307	-4.510236e-005	4.715044e-004	4.904725e-005
308	-4.340034e-005	5.776222e-004	5.244218e-005
309	4.128660e-005	4.443245e-004	-6.176983e-006
310	3.880258e-005	3.787872e-004	-9.513219e-006
311	3.485901e-005	2.591208e-004	-1.555325e-005
312	-5.683614e-005	2.934360e-004	3.742104e-005
313	-5.321006e-005	5.057876e-004	4.456281e-005
314	-5.140929e-005	6.211802e-004	4.787318e-005
315	4.037399e-005	4.622633e-004	-1.734284e-005
316	3.726988e-005	3.891048e-004	-2.131525e-005
317	3.229929e-005	2.555368e-004	-2.853331e-005
318	-6.616531e-005	2.910019e-004	3.158771e-005
319	-6.244597e-005	5.191681e-004	3.847367e-005
320	-6.057985e-005	6.431504e-004	4.164760e-005
321	3.903305e-005	4.649404e-004	-3.048570e-005
322	3.521515e-005	3.819845e-004	-3.516385e-005
323	2.901388e-005	2.304837e-004	-4.369695e-005
324	-7.657701e-005	2.650713e-004	2.428540e-005
325	-7.284439e-005	5.073376e-004	3.081232e-005
326	-7.095092e-005	6.389798e-004	3.379612e-005
327	3.719521e-005	4.498407e-004	-4.565680e-005
328	3.263488e-005	3.546554e-004	-5.109459e-005
329	2.498923e-005	1.806004e-004	-6.107521e-005
330	-8.809797e-005	2.118319e-004	1.553928e-005
331	-8.443796e-005	4.660331e-004	2.160498e-005
332	-8.255460e-005	6.041307e-004	2.430496e-005
333	3.466052e-005	4.144054e-004	-6.289905e-005
334	2.950368e-005	3.044565e-004	-6.912886e-005
335	2.023622e-005	1.026328e-004	-8.071510e-005
336	-1.007723e-004	1.275233e-004	5.383067e-006
337	-9.724246e-005	3.910374e-004	1.085696e-005
338	-9.538625e-005	5.339370e-004	1.298106e-005
339	3.132648e-005	3.560126e-004	-8.214069e-005
340	2.564274e-005	2.288526e-004	-8.917337e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
341	1.491492e-005	-6.538346e-006	-1.027750e-004
342	-1.147804e-004	8.443798e-006	-6.043811e-006
343	-1.111354e-004	2.781750e-004	-1.549356e-006
344	-1.093279e-004	4.233331e-004	-5.263462e-007
345	2.887593e-005	2.730957e-004	-1.028987e-004
346	1.985517e-005	1.254239e-004	-1.103127e-004
347	1.522788e-005	-9.741790e-006	-1.196222e-004
348	1.019920e-005	-1.498453e-004	-1.282361e-004
349	-1.313836e-004	-1.490475e-004	-1.770062e-005
350	-1.280551e-004	-1.032987e-005	-1.721567e-005
351	-1.248978e-004	1.233067e-004	-1.666915e-005
352	-1.240664e-004	2.682911e-004	-1.416421e-005
353	2.785302e-005	2.000952e-004	-1.173100e-004
354	1.888023e-005	3.458807e-005	-1.274096e-004
355	4.725140e-006	-2.722326e-004	-1.440904e-004
356	-1.398765e-004	-2.846715e-004	-2.750794e-005
357	-1.366625e-004	-1.286086e-005	-2.443429e-005
358	-1.339515e-004	1.330023e-004	-2.260285e-005
359	2.810481e-005	1.167220e-004	-1.319713e-004
360	1.857538e-005	-6.838810e-005	-1.423804e-004
361	2.155218e-006	-4.098172e-004	-1.594357e-004
362	-1.476212e-004	-4.374538e-004	-3.401281e-005
363	-1.451082e-004	-1.675940e-004	-3.058432e-005
364	-1.430345e-004	-2.156490e-005	-2.898242e-005
365	3.194872e-005	-2.651601e-005	-1.529564e-004
366	2.125832e-005	-2.451217e-004	-1.631334e-004
367	2.565086e-006	-6.467734e-004	-1.811115e-004
368	-1.563520e-004	-7.000851e-004	-3.905088e-005
369	-1.536523e-004	-4.341574e-004	-3.528846e-005
370	-1.521932e-004	-2.894425e-004	-3.353794e-005
371	3.979874e-005	-1.790581e-004	-1.706026e-004
372	2.808483e-005	-4.330572e-004	-1.809814e-004
373	7.404755e-006	-8.997545e-004	-1.995839e-004
374	-1.605680e-004	-9.804697e-004	-3.827754e-005
375	-1.569836e-004	-7.177197e-004	-3.375237e-005
376	-1.552997e-004	-5.745207e-004	-3.159287e-005
377	5.170678e-005	-3.298403e-004	-1.854978e-004
378	3.909701e-005	-6.209222e-004	-1.960737e-004
379	1.667235e-005	-1.156056e-003	-2.149280e-004
380	-1.602099e-004	-1.264164e-003	-3.163959e-005
381	-1.551114e-004	-1.001354e-003	-2.590194e-005
382	-1.527909e-004	-8.580031e-004	-2.311268e-005
383	6.766601e-005	-4.681940e-004	-1.979204e-004
384	5.430422e-005	-7.973959e-004	-2.085308e-004
385	3.039877e-005	-1.402901e-003	-2.272750e-004
386	-1.552397e-004	-1.536757e-003	-1.903059e-005
387	-1.479671e-004	-1.268200e-003	-1.168519e-005
388	-1.446881e-004	-1.121618e-003	-8.080373e-006
389	8.764174e-005	-5.835795e-004	-2.080006e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
390	7.370046e-005	-9.511592e-004	-2.184683e-004
391	4.861015e-005	-1.627511e-003	-2.367638e-004
392	-1.455908e-004	-1.783930e-003	-3.277615e-007
393	-1.354515e-004	-1.501511e-003	8.953681e-006
394	-1.308854e-004	-1.347300e-003	1.352396e-005
395	1.115447e-004	-6.655782e-004	-2.158366e-004
396	9.725226e-005	-1.070962e-003	-2.259980e-004
397	7.133066e-005	-1.817148e-003	-2.435177e-004
398	-1.311506e-004	-1.991487e-003	2.459775e-005
399	-1.174435e-004	-1.684716e-003	3.606068e-005
400	-1.112557e-004	-1.517201e-003	4.169670e-005
401	1.391428e-004	-7.040587e-004	-2.215051e-004
402	1.248535e-004	-1.145728e-003	-2.312087e-004
403	9.859122e-005	-1.959111e-003	-2.475962e-004
404	-1.117202e-004	-2.145367e-003	5.585897e-005
405	-9.380935e-005	-1.801539e-003	6.962650e-005
406	-8.568943e-005	-1.613870e-003	7.634098e-005
407	1.698688e-004	-6.895605e-004	-2.250234e-004
408	1.562077e-004	-1.164748e-003	-2.341064e-004
409	1.304499e-004	-2.040628e-003	-2.488715e-004
410	-8.690022e-005	-2.231559e-003	9.349171e-005
411	-6.442273e-005	-1.836214e-003	1.094600e-004
412	-5.417176e-005	-1.620656e-003	1.170935e-004
413	2.024413e-004	-6.141136e-004	-2.262868e-004
414	1.905378e-004	-1.118119e-003	-2.344627e-004
415	1.670533e-004	-2.048504e-003	-2.467210e-004
416	-5.577444e-005	-2.235742e-003	1.372840e-004
417	-2.923579e-005	-1.774016e-003	1.548390e-004
418	-1.700417e-005	-1.522683e-003	1.629386e-004
419	2.341575e-004	-4.729864e-004	-2.251603e-004
420	2.256427e-004	-9.980534e-004	-2.318373e-004
421	2.076708e-004	-1.969057e-003	-2.401159e-004
422	-1.713200e-005	-2.142876e-003	1.859733e-004
423	1.118917e-005	-1.602774e-003	2.036113e-004
424	2.443245e-005	-1.309255e-003	2.113739e-004
425	2.602101e-004	-2.679123e-004	-2.220893e-004
426	2.562999e-004	-8.028721e-004	-2.266428e-004
427	2.463805e-004	-1.793351e-003	-2.300729e-004
428	2.458345e-005	-1.942320e-003	2.342714e-004
429	5.227029e-005	-1.318433e-003	2.505593e-004
430	6.540768e-005	-9.798339e-004	2.572731e-004
431	2.741318e-004	-1.088424e-005	-2.184027e-004
432	2.759586e-004	-5.427006e-004	-2.203928e-004
433	2.766531e-004	-1.528178e-003	-2.185364e-004
434	6.280954e-005	-1.642074e-003	2.764909e-004
435	8.610475e-005	-9.355773e-004	2.897861e-004
436	9.743720e-005	-5.524647e-004	2.946727e-004
437	2.666054e-004	2.714602e-004	-2.160423e-004
438	2.744348e-004	-2.429730e-004	-2.159750e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
439	2.840210e-004	-1.197220e-003	-2.102956e-004
440	8.227604e-005	-1.269520e-003	3.036937e-004
441	9.964045e-005	-4.924910e-004	3.132067e-004
442	1.078565e-004	-7.180760e-005	3.153566e-004
443	2.279067e-004	5.339974e-004	-2.175535e-004
444	2.422825e-004	4.828590e-005	-2.191510e-004
445	2.537894e-004	-8.642861e-004	-2.149438e-004
446	6.419365e-005	-8.971039e-004	3.110077e-004
447	7.785985e-005	-6.248891e-005	3.166530e-004
448	8.186947e-005	3.836012e-004	3.120742e-004
449	1.865056e-004	6.665444e-004	-2.227414e-004
450	2.027573e-004	2.026603e-004	-2.242968e-004
451	2.145077e-004	-6.873827e-004	-2.296291e-004
452	2.991465e-005	-6.994218e-004	3.087152e-004
453	4.275382e-005	1.634818e-004	3.056257e-004
454	4.202884e-005	6.135254e-004	2.954600e-004
455	1.443743e-004	7.566561e-004	-2.348680e-004
456	1.442177e-004	3.096463e-004	-2.217157e-004
457	1.547482e-004	-1.009721e-004	-2.445113e-004
458	1.640786e-004	-5.652517e-004	-2.639769e-004
459	-2.530374e-005	-5.633121e-004	3.125078e-004
460	-1.561909e-005	-9.794220e-005	2.926795e-004
461	-6.236825e-006	3.182921e-004	2.735261e-004
462	-6.853811e-006	7.672150e-004	2.806799e-004
463	8.041928e-005	8.149276e-004	-2.539657e-004
464	7.696754e-005	3.605415e-004	-2.630711e-004
465	8.054102e-005	-5.043133e-004	-2.664426e-004
466	-8.419691e-005	-4.987881e-004	2.731332e-004
467	-8.643520e-005	3.891806e-004	2.694697e-004
468	-7.879951e-005	8.584652e-004	2.635181e-004
469	3.441090e-005	7.831620e-004	-2.707391e-004
470	3.692039e-005	3.226238e-004	-2.746837e-004
471	4.372565e-005	-5.365324e-004	-2.720283e-004
472	-1.024676e-004	-5.398074e-004	2.590690e-004
473	-1.162376e-004	3.282145e-004	2.572553e-004
474	-1.200382e-004	7.966353e-004	2.536201e-004
475	1.051333e-005	7.033839e-004	-2.715928e-004
476	1.898989e-005	2.502729e-004	-2.719409e-004
477	3.439062e-005	-5.894556e-004	-2.668839e-004
478	-8.949475e-005	-6.042296e-004	2.482075e-004
479	-1.127728e-004	2.185462e-004	2.450093e-004
480	-1.228944e-004	6.645277e-004	2.420016e-004
481	8.782704e-007	6.120879e-004	-2.617512e-004
482	1.333473e-005	1.767180e-004	-2.605601e-004
483	3.560497e-005	-6.279911e-004	-2.546083e-004
484	-6.433782e-005	-6.522668e-004	2.348914e-004
485	-9.252997e-005	1.104847e-004	2.313355e-004
486	-1.053267e-004	5.244673e-004	2.287959e-004
487	-1.125578e-006	5.296595e-004	-2.461029e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
488	1.382953e-005	1.190206e-004	-2.441738e-004
489	4.075475e-005	-6.384223e-004	-2.382173e-004
490	-3.602063e-005	-6.683799e-004	2.192357e-004
491	-6.583945e-005	2.900959e-005	2.161156e-004
492	-7.953288e-005	4.078615e-004	2.142173e-004
493	3.509414e-008	4.650086e-004	-2.277258e-004
494	1.607755e-005	8.337970e-005	-2.255236e-004
495	4.493604e-005	-6.191826e-004	-2.202250e-004
496	-1.089727e-005	-6.513828e-004	2.021763e-004
497	-3.961553e-005	-1.802113e-005	1.999490e-004
498	-5.290269e-005	3.263622e-004	1.988136e-004
499	1.845141e-006	4.199683e-004	-2.087193e-004
500	1.787521e-005	6.890170e-005	-2.066620e-004
501	4.652345e-005	-5.765294e-004	-2.024078e-004
502	9.095366e-006	-6.080077e-004	1.852196e-004
503	-1.693465e-005	-3.261753e-005	1.840240e-004
504	-2.905766e-005	2.804259e-004	1.835399e-004
505	3.177514e-006	3.927229e-004	-1.901839e-004
506	1.865764e-005	7.208920e-005	-1.885102e-004
507	4.620179e-005	-5.169319e-004	-1.853625e-004
508	2.458367e-005	-5.450831e-004	1.693163e-004
509	1.510782e-006	-2.023160e-005	1.690267e-004
510	-9.270105e-006	2.653789e-004	1.690103e-004
511	3.473948e-006	3.798649e-004	-1.725907e-004
512	1.814327e-005	8.865559e-005	-1.713857e-004
513	4.417536e-005	-4.460574e-004	-1.692830e-004
514	3.588552e-005	-4.687633e-004	1.547480e-004
515	1.555887e-005	1.256939e-005	1.551810e-004
516	6.046428e-006	2.744984e-004	1.554870e-004
517	2.422701e-006	3.773018e-004	-1.560670e-004
518	1.617620e-005	1.140460e-004	-1.553600e-004
519	4.047390e-005	-3.692379e-004	-1.541998e-004
520	4.318470e-005	-3.850625e-004	1.415460e-004
521	2.521554e-005	5.871758e-005	1.425275e-004
522	1.676731e-005	3.001507e-004	1.430257e-004
523	-2.029746e-007	3.806145e-004	-1.405249e-004
524	1.265928e-005	1.436555e-004	-1.403930e-004
525	3.507480e-005	-2.916287e-004	-1.400991e-004
526	4.659779e-005	-3.000317e-004	1.296719e-004
527	3.052179e-005	1.108694e-004	1.310134e-004
528	2.276262e-005	3.341078e-004	1.314842e-004
529	-4.380325e-006	3.852780e-004	-1.259542e-004
530	7.530727e-006	1.729231e-004	-1.262824e-004
531	2.794302e-005	-2.182353e-004	-1.271104e-004
532	4.621461e-005	-2.198087e-004	1.192838e-004
533	3.149142e-005	1.614833e-004	1.203643e-004
534	2.413226e-005	3.676493e-004	1.207068e-004
535	-6.115901e-006	3.876933e-004	-1.209327e-004
536	5.092411e-006	1.838181e-004	-1.205570e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
537	1.490660e-005	-3.243012e-006	-1.219635e-004
538	2.449286e-005	-1.915178e-004	-1.228237e-004
539	4.502340e-005	-1.907110e-004	1.161852e-004
540	3.777151e-005	-4.423430e-006	1.162113e-004
541	3.067731e-005	1.799633e-004	1.159458e-004
542	2.396341e-005	3.804093e-004	1.173409e-004
543	-1.087326e-005	3.895142e-004	-1.083978e-004
544	-1.176676e-006	2.057997e-004	-1.089759e-004
545	1.634526e-005	-1.318651e-004	-1.102354e-004
546	4.118848e-005	-1.271144e-004	1.060204e-004
547	2.799780e-005	2.168941e-004	1.079584e-004
548	2.210166e-005	4.034484e-004	1.086304e-004
549	-1.547293e-005	3.872411e-004	-9.709931e-005
550	-6.683662e-006	2.214740e-004	-9.780043e-005
551	8.977639e-006	-8.265091e-005	-9.925111e-005
552	3.755673e-005	-7.569921e-005	9.738760e-005
553	2.535300e-005	2.430104e-004	9.977904e-005
554	1.971747e-005	4.162411e-004	1.007941e-004
555	-1.942339e-005	3.807157e-004	-8.672638e-005
556	-1.151323e-005	2.310542e-004	-8.754092e-005
557	2.429346e-006	-4.334509e-005	-8.925781e-005
558	3.407834e-005	-3.529692e-005	8.952284e-005
559	2.281065e-005	2.594683e-004	9.213163e-005
560	1.754988e-005	4.197712e-004	9.332254e-005
561	-2.275267e-005	3.702181e-004	-7.726921e-005
562	-1.569859e-005	2.348653e-004	-7.820492e-005
563	-3.314159e-006	-1.327292e-005	-8.012843e-005
564	3.076198e-005	-4.814128e-006	8.230689e-005
565	2.039490e-005	2.673472e-004	8.506498e-005
566	1.554682e-005	4.153715e-004	8.634146e-005
567	-2.552763e-005	3.560647e-004	-6.870609e-005
568	-1.926433e-005	2.333386e-004	-6.973789e-005
569	-8.282215e-006	8.339682e-006	-7.180149e-005
570	2.763135e-005	1.679125e-005	7.569121e-005
571	1.812931e-005	2.676711e-004	7.855160e-005
572	1.368534e-005	4.041263e-004	7.988179e-005
573	-2.778328e-005	3.386179e-004	-6.098732e-005
574	-2.223446e-005	2.269937e-004	-6.208316e-005
575	-1.251024e-005	2.233553e-005	-6.422895e-005
576	2.471639e-005	3.052918e-005	6.963167e-005
577	1.604096e-005	2.614279e-004	7.255259e-005
578	1.198354e-005	3.870191e-004	7.391575e-005
579	-2.954066e-005	3.183103e-004	-5.406005e-005
580	-2.463340e-005	2.164217e-004	-5.519075e-005
581	-1.603622e-005	2.960384e-005	-5.737019e-005
582	2.204902e-005	3.739227e-005	6.408090e-005
583	1.415849e-005	2.495830e-004	6.702472e-005
584	1.046808e-005	3.650005e-004	6.840250e-005
585	-3.081728e-005	2.956434e-004	-4.787794e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
586	-2.648543e-005	2.022719e-004	-4.901886e-005
587	-1.889814e-005	3.106528e-005	-5.119155e-005
588	1.965940e-005	3.836441e-005	5.898800e-005
589	1.250923e-005	2.330887e-004	6.192151e-005
590	9.165095e-006	3.390055e-004	6.329760e-005
591	-3.162956e-005	2.711806e-004	-4.240276e-005
592	-2.781372e-005	1.852424e-004	-4.353376e-005
593	-2.113170e-005	2.766408e-005	-4.566636e-005
594	1.757284e-005	3.442325e-005	5.429985e-005
595	1.111663e-005	2.128874e-004	5.719441e-005
596	8.097286e-006	3.099577e-004	5.855471e-005
597	-3.199281e-005	2.455395e-004	-3.760358e-005
598	-2.863928e-005	1.660747e-004	-3.870901e-005
599	-2.276831e-005	2.036621e-005	-4.077480e-005
600	1.580722e-005	2.653695e-005	4.996309e-005
601	9.998243e-006	1.899101e-004	5.279442e-005
602	7.282279e-006	2.787688e-004	5.412708e-005
603	-3.192065e-005	2.193864e-004	-3.345557e-005
604	-2.898005e-005	1.455509e-004	-3.452403e-005
605	-2.383299e-005	1.016309e-005	-3.650350e-005
606	1.437136e-005	1.565588e-005	4.592668e-005
607	9.164820e-006	1.650715e-004	4.867428e-005
608	6.731926e-006	2.463349e-004	4.996942e-005
609	-3.142404e-005	1.934333e-004	-2.994073e-005
610	-2.885017e-005	1.244924e-004	-3.096164e-005
611	-2.434239e-005	-1.920190e-006	-3.284442e-005
612	1.326461e-005	2.700275e-006	4.214507e-005
613	8.620666e-006	1.392620e-004	4.479078e-005
614	6.451570e-006	2.135312e-004	4.603939e-005
615	-3.051156e-005	1.684403e-004	-2.705407e-005
616	-2.825999e-005	1.037586e-004	-2.800526e-005
617	-2.430226e-005	-1.481347e-005	-2.979180e-005
618	1.247869e-005	-1.145448e-005	3.858202e-005
619	8.365426e-006	1.133402e-004	4.110677e-005
620	6.434915e-006	1.811994e-004	4.229666e-005
621	-2.920544e-005	1.452165e-004	-2.480080e-005
622	-2.722100e-005	8.424147e-005	-2.564254e-005
623	-2.370244e-005	-2.739002e-005	-2.733192e-005
624	1.200707e-005	-2.599131e-005	3.522133e-005
625	8.396130e-006	8.812691e-005	3.759009e-005
626	6.665437e-006	1.501294e-004	3.869551e-005
627	-2.751379e-005	1.242563e-004	-2.322659e-005
628	-2.581448e-005	6.677686e-005	-2.395809e-005
629	-2.262684e-005	-3.843133e-005	-2.550786e-005
630	1.188367e-005	-3.836902e-005	3.235908e-005
631	8.661644e-006	6.771276e-005	3.460281e-005
632	7.108283e-006	1.254885e-004	3.571038e-005
633	-2.557463e-005	1.054309e-004	-2.205884e-005
634	-2.407969e-005	5.103136e-005	-2.292163e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
635	-2.254379e-005	1.012303e-006	-2.350943e-005
636	-2.098847e-005	-4.832237e-005	-2.403656e-005
637	1.199082e-005	-4.882084e-005	2.956735e-005
638	1.060976e-005	4.124235e-007	3.070393e-005
639	9.197262e-006	5.001376e-005	3.175864e-005
640	7.751846e-006	1.039306e-004	3.276591e-005
641	-2.350553e-005	8.906296e-005	-2.114184e-005
642	-2.200274e-005	3.774624e-005	-2.185547e-005
643	-1.937477e-005	-5.622278e-005	-2.318509e-005
644	1.230564e-005	-5.709238e-005	2.706087e-005
645	9.765669e-006	3.522652e-005	2.894589e-005
646	8.487494e-006	8.553828e-005	2.993368e-005
647	-2.147657e-005	7.551685e-005	-2.035783e-005
648	-2.017351e-005	2.700094e-005	-2.103190e-005
649	-1.781427e-005	-6.203110e-005	-2.230310e-005
650	1.258839e-005	-6.318934e-005	2.474171e-005
651	1.034413e-005	2.334309e-005	2.643695e-005
652	9.224863e-006	7.046157e-005	2.730790e-005
653	-1.965734e-005	6.461870e-005	-1.969193e-005
654	-1.851063e-005	1.859733e-005	-2.031948e-005
655	-1.638036e-005	-6.591684e-005	-2.149544e-005
656	1.286359e-005	-6.726819e-005	2.264392e-005
657	1.090233e-005	1.415893e-005	2.417079e-005
658	9.927271e-006	5.848678e-005	2.494502e-005
659	-1.802433e-005	5.611637e-005	-1.911797e-005
660	-1.700004e-005	1.234356e-005	-1.969250e-005
661	-1.508275e-005	-6.805237e-005	-2.076820e-005
662	1.313222e-005	-6.949153e-005	2.076338e-005
663	1.143535e-005	7.468320e-006	2.213010e-005
664	1.059235e-005	4.936231e-005	2.282102e-005
665	-1.655277e-005	4.979280e-005	-1.862167e-005
666	-1.563763e-005	8.052099e-006	-1.914108e-005
667	-1.392248e-005	-6.861075e-005	-2.011507e-005
668	1.339229e-005	-7.002723e-005	1.909151e-005
669	1.194137e-005	3.063308e-006	2.030431e-005
670	1.122049e-005	4.284997e-005	2.091724e-005
671	-1.523277e-005	4.545441e-005	-1.819597e-005
672	-1.442095e-005	5.539850e-006	-1.865892e-005
673	-1.289959e-005	-6.776509e-005	-1.952923e-005
674	1.364133e-005	-6.904813e-005	1.761970e-005
675	1.241859e-005	7.328369e-007	1.868456e-005
676	1.181074e-005	3.871617e-005	1.922272e-005
677	-1.406008e-005	4.291949e-005	-1.783680e-005
678	-1.334798e-005	4.628942e-006	-1.824161e-005
679	-1.201412e-005	-6.568772e-005	-1.900515e-005
680	1.387640e-005	-6.673216e-005	1.633987e-005
681	1.286455e-005	2.616863e-007	1.726298e-005
682	1.236097e-005	3.672520e-005	1.772934e-005
683	-1.303176e-005	4.201551e-005	-1.754176e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
684	-1.241683e-005	5.147840e-006	-1.788640e-005
685	-1.126592e-005	-6.254882e-005	-1.853902e-005
686	1.409368e-005	-6.326315e-005	1.524469e-005
687	1.327580e-005	1.429050e-006	1.603259e-005
688	1.286795e-005	3.663617e-005	1.643031e-005
689	-1.214519e-005	4.257910e-005	-1.730944e-005
690	-1.162549e-005	6.932731e-006	-1.759195e-005
691	-1.065414e-005	-5.851405e-005	-1.812889e-005
692	1.428819e-005	-5.883244e-005	1.432766e-005
693	1.364767e-005	4.006643e-006	1.498746e-005
694	1.332719e-005	3.820085e-005	1.531990e-005
695	-1.139794e-005	4.445593e-005	-1.713819e-005
696	-1.097160e-005	9.828869e-006	-1.735764e-005
697	-1.017638e-005	-5.374110e-005	-1.777468e-005
698	1.445346e-005	-5.364096e-005	1.358335e-005
699	1.397400e-005	7.756269e-006	1.412285e-005
700	1.373237e-005	4.116083e-005	1.439364e-005
701	-1.078798e-005	4.749867e-005	-1.702401e-005
702	-1.045207e-005	1.369117e-005	-1.718195e-005
703	-9.827053e-006	-4.837463e-005	-1.747778e-005
704	1.458158e-005	-4.790169e-005	1.300713e-005
705	1.424656e-005	1.242667e-005	1.343533e-005
706	1.407356e-005	4.524307e-005	1.364843e-005
707	-1.031438e-005	5.156123e-005	-1.695739e-005
708	-1.006239e-005	1.838258e-005	-1.705868e-005
709	-9.594660e-006	-4.253878e-005	-1.724030e-005
710	1.466399e-005	-4.184086e-005	1.259436e-005
711	1.445315e-005	1.774906e-005	1.292198e-005
712	1.433179e-005	5.015003e-005	1.308246e-005
713	-9.981069e-006	5.648618e-005	-1.691882e-005
714	-9.795043e-006	2.376707e-005	-1.696852e-005
715	-9.457522e-006	-3.632566e-005	-1.706494e-005
716	1.469658e-005	-3.569509e-005	1.234072e-005
717	1.456935e-005	2.342936e-005	1.257496e-005
718	1.447249e-005	5.553921e-005	1.269593e-005
719	-9.819026e-006	6.206866e-005	-1.686612e-005
720	-9.636995e-006	2.969152e-005	-1.686471e-005
721	-9.518057e-006	-6.321598e-008	-1.692398e-005
722	-9.392024e-006	-2.977663e-005	-1.697298e-005
723	1.472018e-005	-2.969753e-005	1.227678e-005
724	1.462774e-005	-2.234730e-007	1.232115e-005
725	1.452257e-005	2.913224e-005	1.234909e-005
726	1.447384e-005	6.100345e-005	1.250748e-005

Prueba de carga 10

Desplazamientos de nudos

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
1	5.871425e-007	1.904430e-006	7.501758e-008
2	5.842366e-007	9.142511e-007	7.276774e-008
3	5.806379e-007	4.946702e-009	6.908527e-008
4	5.765274e-007	-8.970731e-007	6.540279e-008
5	-5.773572e-007	-8.984797e-007	6.670114e-008
6	-5.814492e-007	4.837157e-009	7.037759e-008
7	-5.850067e-007	9.153639e-007	7.405405e-008
8	-5.878996e-007	1.906834e-006	7.630245e-008
9	5.904719e-007	2.051860e-006	7.553195e-008
10	5.876178e-007	1.055826e-006	7.161711e-008
11	5.829639e-007	-7.720148e-007	6.222182e-008
12	-5.837586e-007	-7.708318e-007	6.360566e-008
13	-5.883947e-007	1.059470e-006	7.294040e-008
14	-5.911948e-007	2.056764e-006	7.680962e-008
15	5.975465e-007	2.201013e-006	7.479267e-008
16	5.952417e-007	1.192764e-006	6.757665e-008
17	5.908713e-007	-6.592175e-007	5.324866e-008
18	-5.916002e-007	-6.550930e-007	5.490891e-008
19	-5.959065e-007	1.199062e-006	6.898625e-008
20	-5.981158e-007	2.208344e-006	7.602791e-008
21	6.090992e-007	2.346384e-006	7.040508e-008
22	6.067736e-007	1.318625e-006	5.984293e-008
23	6.023265e-007	-5.691797e-007	3.928743e-008
24	-6.028072e-007	-5.613588e-007	4.142590e-008
25	-6.071167e-007	1.327722e-006	6.131312e-008
26	-6.092687e-007	2.355893e-006	7.146419e-008
27	6.251780e-007	2.480781e-006	6.228049e-008
28	6.226982e-007	1.425955e-006	4.816424e-008
29	6.180920e-007	-5.113060e-007	2.067208e-008
30	-6.179649e-007	-4.986639e-007	2.344002e-008
31	-6.223307e-007	1.437802e-006	4.952785e-008
32	-6.245260e-007	2.491732e-006	6.283359e-008
33	6.460659e-007	2.597082e-006	5.050087e-008
34	6.434128e-007	1.507078e-006	3.255422e-008
35	6.385929e-007	-4.945314e-007	-2.431942e-009
36	-6.372585e-007	-4.757394e-007	9.865162e-010
37	-6.416982e-007	1.521069e-006	3.340716e-008
38	-6.439232e-007	2.607759e-006	4.992603e-008
39	6.721249e-007	2.688411e-006	3.523609e-008
40	6.692866e-007	1.554495e-006	1.317073e-008
41	6.642001e-007	-5.275011e-007	-2.987878e-008
42	-6.607428e-007	-5.013817e-007	-2.603675e-008
43	-6.652686e-007	1.568876e-006	1.274764e-008
44	-6.675029e-007	2.695416e-006	3.249504e-008
45	7.036952e-007	2.748300e-006	1.671796e-008
46	7.007098e-007	1.561123e-006	-9.722864e-009

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
47	6.953162e-007	-6.185327e-007	-6.146526e-008
48	-6.884311e-007	-5.846946e-007	-5.784642e-008
49	-6.930445e-007	1.572141e-006	-1.269971e-008
50	-6.952030e-007	2.745566e-006	1.019414e-008
51	7.409124e-007	2.770652e-006	-4.918314e-009
52	7.380690e-007	1.520488e-006	-3.577078e-008
53	7.324202e-007	-7.754511e-007	-9.687850e-008
54	-7.203815e-007	-7.353235e-007	-9.478459e-008
55	-7.249692e-007	1.521227e-006	-4.325877e-008
56	-7.266040e-007	2.748073e-006	-1.766010e-008
57	7.836341e-007	2.749468e-006	-2.947807e-008
58	7.814484e-007	1.426888e-006	-6.454378e-008
59	7.763033e-007	-1.005329e-006	-1.356525e-007
60	-7.571454e-007	-9.637181e-007	-1.373326e-007
61	-7.605426e-007	1.405781e-006	-7.934133e-008
62	-7.608401e-007	2.691035e-006	-5.184746e-008
63	8.341128e-007	2.681535e-006	-5.317676e-008
64	8.282795e-007	1.275480e-006	-9.559898e-008
65	8.303822e-007	-1.715192e-008	-1.363657e-007
66	8.302422e-007	-1.314146e-006	-1.771325e-007
67	-8.033788e-007	-1.281394e-006	-1.860869e-007
68	-8.003155e-007	-2.794578e-008	-1.537794e-007
69	-7.952527e-007	1.214551e-006	-1.214718e-007
70	-8.008917e-007	2.564645e-006	-8.765009e-008
71	8.688527e-007	2.612202e-006	-6.472418e-008
72	8.666387e-007	1.145773e-006	-1.130809e-007
73	8.618396e-007	-1.552938e-006	-2.020230e-007
74	-8.255105e-007	-1.534467e-006	-2.160714e-007
75	-8.281023e-007	1.047253e-006	-1.465912e-007
76	-8.283789e-007	2.446409e-006	-1.072400e-007
77	9.077075e-007	2.529933e-006	-7.381596e-008
78	9.055266e-007	9.978102e-007	-1.249604e-007
79	8.990770e-007	-1.819472e-006	-2.213262e-007
80	-8.537579e-007	-1.820680e-006	-2.390273e-007
81	-8.590357e-007	8.532511e-007	-1.643390e-007
82	-8.597618e-007	2.305371e-006	-1.235878e-007
83	9.734741e-007	2.402865e-006	-7.727884e-008
84	9.698931e-007	7.601277e-007	-1.322850e-007
85	9.628603e-007	-2.257462e-006	-2.391517e-007
86	-9.027896e-007	-2.294388e-006	-2.604579e-007
87	-9.091715e-007	5.346404e-007	-1.776094e-007
88	-9.120256e-007	2.074046e-006	-1.344338e-007
89	1.044861e-006	2.284898e-006	-6.599612e-008
90	1.040955e-006	5.217756e-007	-1.262311e-007
91	1.033621e-006	-2.717181e-006	-2.439126e-007
92	-9.576753e-007	-2.794785e-006	-2.671253e-007
93	-9.647782e-007	2.068076e-007	-1.747197e-007
94	-9.684655e-007	1.840979e-006	-1.270389e-007
95	1.122895e-006	2.202860e-006	-4.084540e-008

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
96	1.118902e-006	3.079365e-007	-1.066790e-007
97	1.111272e-006	-3.173887e-006	-2.353373e-007
98	-1.019044e-006	-3.294532e-006	-2.592453e-007
99	-1.026875e-006	-1.001174e-007	-1.558434e-007
100	-1.031084e-006	1.639493e-006	-1.025603e-007
101	1.207926e-006	2.182470e-006	-2.082022e-009
102	1.203843e-006	1.439065e-007	-7.362963e-008
103	1.195879e-006	-3.602565e-006	-2.134067e-007
104	-1.087800e-006	-3.766530e-006	-2.368552e-007
105	-1.096410e-006	-3.561428e-007	-1.209593e-007
106	-1.101124e-006	1.501478e-006	-6.127064e-008
107	1.300127e-006	2.249130e-006	5.016589e-008
108	1.295902e-006	5.484564e-008	-2.723142e-008
109	1.287539e-006	-3.978397e-006	-1.783495e-007
110	-1.164905e-006	-4.183567e-006	-1.997829e-007
111	-1.174342e-006	-5.310574e-007	-6.985939e-008
112	-1.179567e-006	1.458776e-006	-2.998322e-009
113	1.399742e-006	2.427975e-006	1.157157e-007
114	1.395285e-006	6.550470e-008	3.222284e-008
115	1.386431e-006	-4.277238e-006	-1.306481e-007
116	-1.251333e-006	-4.517889e-006	-1.476233e-007
117	-1.261624e-006	-5.941013e-007	-2.170867e-009
118	-1.267333e-006	1.543722e-006	7.259698e-008
119	1.507216e-006	2.743818e-006	1.943665e-007
120	1.502378e-006	1.999905e-007	1.043339e-007
121	1.492885e-006	-4.476098e-006	-7.104634e-008
122	-1.348015e-006	-4.740752e-006	-7.972303e-008
123	-1.359144e-006	-5.136977e-007	8.259995e-008
124	-1.365256e-006	1.789340e-006	1.659088e-007
125	1.623357e-006	3.221267e-006	2.860553e-007
126	1.617869e-006	4.816467e-007	1.886806e-007
127	1.607496e-006	-4.553650e-006	-5.447829e-010
128	-1.455738e-006	-4.821944e-006	4.813103e-009
129	-1.467615e-006	-2.573071e-007	1.849836e-007
130	-1.473991e-006	2.229311e-006	2.772804e-007
131	1.749764e-006	3.885388e-006	3.912787e-007
132	1.742953e-006	9.331554e-007	2.849686e-007
133	1.731273e-006	-4.490678e-006	7.965210e-008
134	-1.574984e-006	-4.729368e-006	1.070611e-007
135	-1.587433e-006	2.085087e-007	3.054071e-007
136	-1.593988e-006	2.897786e-006	4.069450e-007
137	1.890083e-006	4.763835e-006	5.121819e-007
138	1.879748e-006	1.576994e-006	3.932600e-007
139	1.865698e-006	-4.270361e-006	1.682845e-007
140	-1.705657e-006	-4.428828e-006	2.281043e-007
141	-1.718572e-006	9.176929e-007	4.439874e-007
142	-1.725702e-006	3.829243e-006	5.550991e-007
143	2.051670e-006	5.891387e-006	6.531250e-007
144	2.032903e-006	2.436408e-006	5.142932e-007

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
145	2.011636e-006	-3.878130e-006	2.643617e-007
146	-1.846184e-006	-3.884319e-006	3.686390e-007
147	-1.861146e-006	1.903869e-006	6.002853e-007
148	-1.869143e-006	5.057996e-006	7.209059e-007
149	2.237138e-006	7.306437e-006	8.080289e-007
150	2.220567e-006	3.537068e-006	6.498909e-007
151	2.192579e-006	8.671005e-008	5.088382e-007
152	2.158590e-006	-3.300658e-006	3.677854e-007
153	-1.987582e-006	-3.059423e-006	5.281740e-007
154	-2.006728e-006	5.233350e-008	6.506554e-007
155	-2.021150e-006	3.199113e-006	7.731368e-007
156	-2.015544e-006	6.609339e-006	8.932065e-007
157	2.376265e-006	8.396719e-006	9.128575e-007
158	2.333361e-006	4.408347e-006	7.346898e-007
159	2.288560e-006	-2.807155e-006	4.253892e-007
160	-2.102330e-006	-2.336004e-006	6.344808e-007
161	-2.109490e-006	4.240816e-006	8.872765e-007
162	-2.107197e-006	7.804496e-006	1.002990e-006
163	2.486998e-006	9.246149e-006	9.956751e-007
164	2.455516e-006	5.174105e-006	7.883566e-007
165	2.396052e-006	-2.261582e-006	4.542847e-007
166	-2.228594e-006	-1.471414e-006	7.358089e-007
167	-2.219383e-006	5.633350e-006	1.003297e-006
168	-2.220375e-006	9.491479e-006	1.116033e-006
169	2.663351e-006	1.106204e-005	1.008735e-006
170	2.638896e-006	6.809837e-006	8.177700e-007
171	2.576913e-006	-1.020405e-006	4.671829e-007
172	-2.408798e-006	-5.383648e-007	8.439074e-007
173	-2.389708e-006	7.282326e-006	1.145629e-006
174	-2.389027e-006	1.154958e-005	1.295712e-006
175	2.893636e-006	1.347689e-005	1.021687e-006
176	2.860240e-006	8.846109e-006	8.219717e-007
177	2.791572e-006	3.367266e-007	4.386711e-007
178	-2.583036e-006	4.290875e-007	9.114531e-007
179	-2.561654e-006	8.816477e-006	1.232702e-006
180	-2.553765e-006	1.338465e-005	1.397914e-006
181	3.129848e-006	1.593636e-005	9.979645e-007
182	3.093235e-006	1.090572e-005	7.862686e-007
183	3.021258e-006	1.660703e-006	3.744381e-007
184	-2.774424e-006	1.438821e-006	9.397369e-007
185	-2.752918e-006	1.043604e-005	1.288964e-006
186	-2.742889e-006	1.533670e-005	1.470803e-006
187	3.374736e-006	1.837721e-005	9.353116e-007
188	3.336960e-006	1.292252e-005	7.111065e-007
189	3.262031e-006	2.893240e-006	2.746328e-007
190	-2.989388e-006	2.418607e-006	9.295908e-007
191	-2.966880e-006	1.208373e-005	1.314851e-006
192	-2.956587e-006	1.735078e-005	1.515673e-006
193	3.628299e-006	2.073194e-005	8.316537e-007

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
194	3.589562e-006	1.482986e-005	5.957648e-007
195	3.511581e-006	3.973758e-006	1.374005e-007
196	-3.232331e-006	3.297999e-006	8.834599e-007
197	-3.207723e-006	1.370331e-005	1.312109e-006
198	-3.197048e-006	1.937603e-005	1.535188e-006
199	3.889711e-006	2.292979e-005	6.852970e-007
200	3.849617e-006	1.655847e-005	4.383275e-007
201	3.768292e-006	4.836739e-006	-4.051549e-008
202	-3.506898e-006	4.011056e-006	8.050337e-007
203	-3.479193e-006	1.524162e-005	1.283543e-006
204	-3.467460e-006	2.136562e-005	1.532031e-006
205	4.158759e-006	2.489695e-005	4.943003e-007
206	4.116483e-006	1.803476e-005	2.359315e-007
207	4.031203e-006	5.409632e-006	-2.635918e-007
208	-3.816066e-006	4.498456e-006	6.990477e-007
209	-3.784324e-006	1.665026e-005	1.232727e-006
210	-3.770638e-006	2.327675e-005	1.509045e-006
211	4.437005e-006	2.655671e-005	2.569051e-007
212	4.390669e-006	1.917963e-005	-1.487813e-008
213	4.300196e-006	5.610930e-006	-5.374761e-007
214	-4.162009e-006	4.709368e-006	5.711609e-007
215	-4.125178e-006	1.788678e-005	1.163599e-006
216	-4.108084e-006	2.507054e-005	1.468619e-006
217	4.729848e-006	2.783166e-005	-2.716558e-008
218	4.674534e-006	1.990827e-005	-3.176846e-007
219	4.576261e-006	5.348412e-006	-8.688592e-007
220	-4.545943e-006	4.603110e-006	4.277284e-007
221	-4.502344e-006	1.891508e-005	1.079897e-006
222	-4.478564e-006	2.671031e-005	1.411242e-006
223	5.048949e-006	2.864846e-005	-3.568555e-007
224	4.973756e-006	2.013091e-005	-6.756842e-007
225	4.860479e-006	4.517910e-006	-1.264818e-006
226	-4.969215e-006	4.150151e-006	2.753283e-007
227	-4.913504e-006	1.970482e-005	9.843636e-007
228	-4.876541e-006	2.815813e-005	1.335758e-006
229	5.387515e-006	2.898109e-005	-7.012416e-007
230	5.288920e-006	1.983046e-005	-1.070721e-006
231	5.145262e-006	3.073392e-006	-1.726449e-006
232	-5.443807e-006	3.270923e-006	1.208189e-007
233	-5.367589e-006	2.019404e-005	8.700224e-007
234	-5.322767e-006	2.938842e-005	1.227085e-006
235	5.753815e-006	2.905052e-005	-1.089440e-006
236	5.632620e-006	1.918627e-005	-1.513227e-006
237	5.447705e-006	1.119294e-006	-2.258382e-006
238	-5.957390e-006	1.723755e-006	-3.329596e-008
239	-5.855807e-006	2.007850e-005	7.466498e-007
240	-5.802397e-006	3.005483e-005	1.114076e-006
241	6.165679e-006	2.886759e-005	-1.531596e-006
242	6.016246e-006	1.817333e-005	-2.014358e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
243	5.780001e-006	-1.413188e-006	-2.865318e-006
244	-6.497750e-006	-5.628064e-007	-1.876420e-007
245	-6.368882e-006	1.924354e-005	6.150827e-007
246	-6.301695e-006	3.000604e-005	9.903242e-007
247	6.623786e-006	2.840669e-005	-2.030582e-006
248	6.445182e-006	1.675685e-005	-2.575193e-006
249	6.149484e-006	-4.591685e-006	-3.545328e-006
250	-7.063475e-006	-3.652264e-006	-3.471214e-007
251	-6.905108e-006	1.761111e-005	4.724533e-007
252	-6.818111e-006	2.915301e-005	8.455827e-007
253	7.131281e-006	2.764924e-005	-2.584910e-006
254	6.920505e-006	1.491250e-005	-3.194716e-006
255	6.566285e-006	-8.467363e-006	-4.296387e-006
256	-7.662316e-006	-7.619908e-006	-5.159353e-007
257	-7.457162e-006	1.509455e-005	3.121306e-007
258	-7.342995e-006	2.738147e-005	6.670929e-007
259	7.720897e-006	2.660846e-005	-3.170911e-006
260	7.416182e-006	1.262841e-005	-3.863781e-006
261	7.255746e-006	-1.939620e-007	-4.507258e-006
262	7.065991e-006	-1.307157e-005	-5.123046e-006
263	-8.354548e-006	-1.255506e-005	-6.838549e-007
264	-8.165043e-006	-3.911795e-007	-2.796149e-007
265	-7.968017e-006	1.159585e-005	1.108748e-007
266	-7.898583e-006	2.460865e-005	5.294763e-007
267	8.183612e-006	2.568732e-005	-3.586460e-006
268	7.879547e-006	1.070166e-005	-4.369765e-006
269	7.388737e-006	-1.682942e-005	-5.705702e-006
270	-8.717908e-006	-1.674405e-005	-7.896514e-007
271	-8.451532e-006	8.414802e-006	6.480960e-008
272	-8.289895e-006	2.201588e-005	5.082483e-007
273	8.699752e-006	2.470053e-005	-4.010935e-006
274	8.366036e-006	8.625053e-006	-4.838995e-006
275	7.788700e-006	-2.088927e-005	-6.262227e-006
276	-9.113593e-006	-2.134535e-005	-7.505556e-007
277	-8.848704e-006	4.841468e-006	1.451170e-007
278	-8.690544e-006	1.904423e-005	5.872467e-007
279	9.534563e-006	2.339094e-005	-4.584012e-006
280	9.140645e-006	5.614920e-006	-5.456502e-006
281	8.464991e-006	-2.699659e-005	-6.993326e-006
282	-9.664404e-006	-2.829442e-005	-4.690979e-007
283	-9.357923e-006	-5.163343e-007	4.978745e-007
284	-9.207364e-006	1.458850e-005	9.596800e-007
285	1.046867e-005	2.230601e-005	-5.087063e-006
286	1.001760e-005	2.711272e-006	-6.013970e-006
287	9.239783e-006	-3.324593e-005	-7.654142e-006
288	-1.018456e-005	-3.538756e-005	6.591994e-008
289	-9.811890e-006	-5.828399e-006	1.133321e-006
290	-9.638804e-006	1.025529e-005	1.640606e-006
291	1.150913e-005	2.170446e-005	-5.532359e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
292	1.099929e-005	1.725818e-007	-6.512900e-006
293	1.011408e-005	-3.935227e-005	-8.245533e-006
294	-1.067792e-005	-4.224555e-005	8.571853e-007
295	-1.021801e-005	-1.062525e-005	2.052380e-006
296	-1.000748e-005	6.584364e-006	2.620674e-006
297	1.266154e-005	2.184553e-005	-5.925747e-006
298	1.208902e-005	-1.732658e-006	-6.955765e-006
299	1.109029e-005	-4.502246e-005	-8.771523e-006
300	-1.114921e-005	-4.849887e-005	1.910347e-006
301	-1.057995e-005	-1.445224e-005	3.257160e-006
302	-1.032071e-005	4.080184e-006	3.897869e-006
303	1.393184e-005	2.299713e-005	-6.270213e-006
304	1.329155e-005	-2.726901e-006	-7.346097e-006
305	1.217173e-005	-4.995920e-005	-9.238382e-006
306	-1.160109e-005	-5.378723e-005	3.232235e-006
307	-1.089920e-005	-1.686946e-005	4.750471e-006
308	-1.057991e-005	3.225883e-006	5.472784e-006
309	1.532811e-005	2.543907e-005	-6.568790e-006
310	1.461381e-005	-2.523768e-006	-7.688518e-006
311	1.336325e-005	-5.386329e-005	-9.654020e-006
312	-1.203405e-005	-5.776039e-005	4.829669e-006
313	-1.117558e-005	-1.745315e-005	6.534841e-006
314	-1.078452e-005	4.484894e-006	7.345909e-006
315	1.686154e-005	2.946500e-005	-6.825237e-006
316	1.606541e-005	-8.271598e-007	-7.988587e-006
317	1.467188e-005	-5.643366e-005	-1.002731e-005
318	-1.244680e-005	-6.008061e-005	6.708188e-006
319	-1.140769e-005	-1.579876e-005	8.611458e-006
320	-1.093307e-005	8.297948e-006	9.516425e-006
321	1.854794e-005	3.538551e-005	-7.043896e-006
322	1.765899e-005	2.670919e-006	-8.252545e-006
323	1.610747e-005	-5.736512e-005	-1.036723e-005
324	-1.283716e-005	-6.042716e-005	8.870747e-006
325	-1.159367e-005	-1.152572e-005	1.097928e-005
326	-1.102385e-005	1.507839e-005	1.198173e-005
327	2.041282e-005	4.353532e-005	-7.229347e-006
328	1.941046e-005	8.293750e-006	-8.487162e-006
329	1.768286e-005	-5.634341e-005	-1.068162e-005
330	-1.320335e-005	-5.850331e-005	1.131650e-005
331	-1.173230e-005	-4.283681e-006	1.363465e-005
332	-1.105611e-005	2.520775e-005	1.473901e-005
333	2.250006e-005	5.428899e-005	-7.387947e-006
334	2.134072e-005	1.638420e-005	-8.700928e-006
335	1.941203e-005	-5.303755e-005	-1.097424e-005
336	-1.354524e-005	-5.404601e-005	1.403949e-005
337	-1.182518e-005	6.240207e-006	1.657214e-005
338	-1.103263e-005	3.903719e-005	1.779305e-005
339	2.484663e-005	6.807084e-005	-7.539676e-006
340	2.348997e-005	2.730956e-005	-8.915492e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
341	2.129478e-005	-4.708998e-005	-1.123168e-005
342	-1.386092e-005	-4.683840e-005	1.702388e-005
343	-1.188440e-005	2.031400e-005	1.979111e-005
344	-1.096481e-005	5.689933e-005	2.116115e-005
345	2.727083e-005	8.523019e-005	-7.751661e-006
346	2.602052e-005	4.146856e-005	-9.250832e-006
347	2.461413e-005	1.247628e-006	-1.032291e-005
348	2.321069e-005	-3.810805e-005	-1.133599e-005
349	-1.410106e-005	-3.672361e-005	2.020544e-005
350	-1.306610e-005	5.236342e-007	2.182371e-005
351	-1.198128e-005	3.815476e-005	2.333842e-005
352	-1.087669e-005	7.904941e-005	2.475669e-005
353	2.895892e-005	9.923114e-005	-8.036755e-006
354	2.749195e-005	5.355854e-005	-9.355961e-006
355	2.484932e-005	-2.973573e-005	-1.181060e-005
356	-1.445400e-005	-2.775590e-005	2.261157e-005
357	-1.193984e-005	5.300763e-005	2.579290e-005
358	-1.079059e-005	9.701653e-005	2.731910e-005
359	3.053240e-005	1.148146e-004	-8.479207e-006
360	2.895921e-005	6.717345e-005	-9.877293e-006
361	2.619428e-005	-1.999505e-005	-1.248801e-005
362	-1.489913e-005	-1.753953e-005	2.494604e-005
363	-1.210044e-005	6.956891e-005	2.825797e-005
364	-1.080164e-005	1.169309e-004	2.983105e-005
365	3.280450e-005	1.419398e-004	-9.840477e-006
366	3.104776e-005	9.074445e-005	-1.136305e-005
367	2.796611e-005	-3.078140e-006	-1.414418e-005
368	-1.593110e-005	6.370442e-008	2.856136e-005
369	-1.275176e-005	9.822927e-005	3.209779e-005
370	-1.128406e-005	1.516151e-004	3.376189e-005
371	3.480683e-005	1.713595e-004	-1.192611e-005
372	3.281485e-005	1.161928e-004	-1.356824e-005
373	2.932726e-005	1.503844e-005	-1.653126e-005
374	-1.738288e-005	1.896710e-005	3.212065e-005
375	-1.377779e-005	1.292372e-004	3.588697e-005
376	-1.210616e-005	1.892087e-004	3.765612e-005
377	3.651358e-005	2.021317e-004	-1.473378e-005
378	3.424421e-005	1.424921e-004	-1.648745e-005
379	3.027834e-005	3.312401e-005	-1.965036e-005
380	-1.928314e-005	3.800727e-005	3.566163e-005
381	-1.520891e-005	1.614508e-004	3.965736e-005
382	-1.331623e-005	2.285921e-004	4.153201e-005
383	3.791553e-005	2.333594e-004	-1.826179e-005
384	3.532558e-005	1.686496e-004	-2.012935e-005
385	3.080524e-005	4.998432e-005	-2.350713e-005
386	-2.165350e-005	5.597955e-005	3.923268e-005
387	-1.706726e-005	1.936777e-004	4.345216e-005
388	-1.493462e-005	2.685759e-004	4.542922e-005
389	3.900536e-005	2.641915e-004	-2.252379e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
390	3.604660e-005	1.937030e-004	-2.451028e-005
391	3.088675e-005	6.444616e-005	-2.811546e-005
392	-2.450543e-005	7.165445e-005	4.288821e-005
393	-1.936463e-005	2.246954e-004	4.732154e-005
394	-1.697212e-005	3.079405e-004	4.939586e-005
395	3.977496e-005	2.938163e-004	-2.754470e-005
396	3.639280e-005	2.167170e-004	-2.965441e-005
397	3.049730e-005	7.534731e-005	-3.349741e-005
398	-2.784120e-005	8.379165e-005	4.668691e-005
399	-2.210338e-005	2.532677e-004	5.132053e-005
400	-1.943103e-005	3.454521e-004	5.348526e-005
401	4.021560e-005	3.214597e-004	-3.335838e-005
402	3.634829e-005	2.367826e-004	-3.559392e-005
403	2.960831e-005	8.153151e-005	-3.968253e-005
404	-3.165504e-005	9.115077e-005	5.069025e-005
405	-2.527773e-005	2.781573e-004	5.550729e-005
406	-2.230559e-005	3.798752e-004	5.775396e-005
407	4.031864e-005	3.463879e-004	-4.000708e-005
408	3.589654e-005	2.530190e-004	-4.236883e-005
409	2.818922e-005	8.184767e-005	-4.670730e-005
410	-3.593452e-005	9.249853e-005	5.496099e-005
411	-2.887519e-005	2.981346e-004	5.994129e-005
412	-2.558337e-005	4.099820e-004	6.225981e-005
413	4.007627e-005	3.679149e-004	-4.754144e-005
414	3.502131e-005	2.645789e-004	-5.002695e-005
415	2.620850e-005	7.515312e-005	-5.461475e-005
416	-4.066198e-005	8.661231e-005	5.956163e-005
417	-3.287834e-005	3.119809e-004	6.468160e-005
418	-2.924708e-005	4.345563e-004	6.706024e-005
419	3.948205e-005	3.854116e-004	-5.602037e-005
420	3.370776e-005	2.706583e-004	-5.862378e-005
421	2.363494e-005	6.032137e-005	-6.345419e-005
422	-4.581639e-005	7.227965e-005	6.455283e-005
423	-3.726683e-005	3.184878e-004	6.978529e-005
424	-3.327669e-005	4.523918e-004	7.221062e-005
425	3.852915e-005	3.983184e-004	-6.551008e-005
426	3.194342e-005	2.705098e-004	-6.822238e-005
427	2.043946e-005	3.625500e-005	-7.328096e-005
428	-5.137571e-005	4.829277e-005	6.999175e-005
429	-4.201981e-005	3.164506e-004	7.530594e-005
430	-3.765195e-005	4.622857e-004	7.776267e-005
431	3.720269e-005	4.061542e-004	-7.607911e-005
432	2.971880e-005	2.634612e-004	-7.889243e-005
433	1.659749e-005	1.905057e-006	-8.415621e-005
434	-5.732031e-005	1.343718e-005	7.593092e-005
435	-4.711859e-005	3.046564e-004	8.129272e-005
436	-4.235649e-005	4.630231e-004	8.375914e-005
437	3.546940e-005	4.085138e-004	-8.778359e-005
438	2.702518e-005	2.489370e-004	-9.070435e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
439	1.209283e-005	-4.370196e-005	-9.614882e-005
440	-6.363725e-005	-3.352664e-005	8.241901e-005
441	-5.254876e-005	2.818671e-004	8.778850e-005
442	-4.738721e-005	4.533361e-004	9.020778e-005
443	3.331391e-005	4.050891e-004	-1.006317e-004
444	2.383296e-005	2.264812e-004	-1.036813e-004
445	6.928469e-006	-1.014270e-004	-1.093500e-004
446	-7.032335e-005	-9.388692e-005	8.950553e-005
447	-5.829409e-005	2.467964e-004	9.480346e-005
448	-5.274468e-005	4.318093e-004	9.701710e-005
449	3.172233e-005	3.988367e-004	-1.092252e-004
450	2.146365e-005	2.074088e-004	-1.124323e-004
451	3.183156e-006	-1.449694e-004	-1.184677e-004
452	-7.484322e-005	-1.402028e-004	9.441483e-005
453	-6.201973e-005	2.167147e-004	9.928085e-005
454	-5.620646e-005	4.098393e-004	1.011954e-004
455	3.026972e-005	3.902661e-004	-1.185557e-004
456	1.870104e-005	1.848735e-004	-1.212338e-004
457	8.969750e-006	-3.886864e-006	-1.251986e-004
458	-6.282720e-007	-1.939941e-004	-1.286606e-004
459	-7.974635e-005	-1.930104e-004	1.003134e-004
460	-7.264767e-005	-5.144419e-006	1.019041e-004
461	-6.567118e-005	1.805989e-004	1.032921e-004
462	-5.946097e-005	3.821051e-004	1.060740e-004
463	2.881621e-005	3.756241e-004	-1.341160e-004
464	1.607536e-005	1.449413e-004	-1.374200e-004
465	-5.943060e-006	-2.792433e-004	-1.431452e-004
466	-8.460477e-005	-2.860330e-004	1.084207e-004
467	-7.005029e-005	1.152002e-004	1.134004e-004
468	-6.278546e-005	3.328072e-004	1.156078e-004
469	2.925380e-005	3.600113e-004	-1.504639e-004
470	1.549301e-005	1.020243e-004	-1.534154e-004
471	-8.702013e-006	-3.716876e-004	-1.586510e-004
472	-8.581590e-005	-3.876203e-004	1.196378e-004
473	-6.960662e-005	4.375993e-005	1.248841e-004
474	-6.191477e-005	2.783628e-004	1.273414e-004
475	3.187857e-005	3.484971e-004	-1.672307e-004
476	1.709228e-005	6.151509e-005	-1.698808e-004
477	-9.098053e-006	-4.654187e-004	-1.746359e-004
478	-8.308154e-005	-4.904520e-004	1.332676e-004
479	-6.460744e-005	-2.478535e-005	1.386013e-004
480	-5.596969e-005	2.286191e-004	1.411894e-004
481	3.656285e-005	3.463820e-004	-1.845814e-004
482	2.082560e-005	2.886769e-005	-1.869551e-004
483	-7.165251e-006	-5.543548e-004	-1.910846e-004
484	-7.630521e-005	-5.873103e-004	1.493295e-004
485	-5.504944e-005	-8.168540e-005	1.546920e-004
486	-4.513813e-005	1.934964e-004	1.573308e-004
487	4.305005e-005	3.587250e-004	-2.025628e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
488	2.657103e-005	9.537376e-006	-2.046608e-004
489	-2.908103e-006	-6.322630e-004	-2.080032e-004
490	-6.534573e-005	-6.710574e-004	1.678796e-004
491	-4.089742e-005	-1.184235e-004	1.731709e-004
492	-2.951609e-005	1.823176e-004	1.757679e-004
493	5.085913e-005	3.901023e-004	-2.209921e-004
494	3.408168e-005	8.828519e-006	-2.228822e-004
495	3.743843e-006	-6.926849e-004	-2.252798e-004
496	-4.993109e-005	-7.345357e-004	1.888549e-004
497	-2.216917e-005	-1.268553e-004	1.939129e-004
498	-9.282637e-006	2.037129e-004	1.962910e-004
499	5.899892e-005	4.439727e-004	-2.392980e-004
500	4.282647e-005	3.154423e-005	-2.411576e-004
501	1.308788e-005	-7.286555e-004	-2.424685e-004
502	-2.948518e-005	-7.702504e-004	2.118264e-004
503	8.898456e-007	-9.959058e-005	2.164263e-004
504	1.493730e-005	2.649262e-004	2.182904e-004
505	6.538691e-005	5.212319e-004	-2.562579e-004
506	5.149022e-005	8.106925e-005	-2.582259e-004
507	2.579951e-005	-7.320857e-004	-2.583490e-004
508	-2.703208e-006	-7.694573e-004	2.354057e-004
509	2.731568e-005	-3.103057e-005	2.392679e-004
510	4.121339e-005	3.699002e-004	2.403188e-004
511	6.562967e-005	6.171348e-004	-2.700132e-004
512	5.543971e-005	1.560172e-004	-2.721648e-004
513	3.607151e-005	-6.974013e-004	-2.712111e-004
514	2.435894e-005	-7.256557e-004	2.567594e-004
515	5.129081e-005	7.796536e-005	2.596998e-004
516	6.366305e-005	5.139008e-004	2.598207e-004
517	5.319548e-005	7.171654e-004	-2.782701e-004
518	4.881170e-005	2.442071e-004	-2.817116e-004
519	3.816698e-005	-6.348278e-004	-2.804060e-004
520	4.463959e-005	-6.503378e-004	2.738396e-004
521	6.426902e-005	2.098853e-004	2.760055e-004
522	7.253735e-005	6.754470e-004	2.745876e-004
523	1.883110e-005	7.920542e-004	-2.769053e-004
524	2.228951e-005	3.207943e-004	-2.841183e-004
525	1.941503e-005	-5.660445e-004	-2.843309e-004
526	4.320247e-005	-5.685507e-004	2.850007e-004
527	5.240499e-005	3.272004e-004	2.854025e-004
528	5.202794e-005	8.065609e-004	2.798503e-004
529	-4.016376e-005	7.984505e-004	-2.682637e-004
530	-3.535527e-005	3.396172e-004	-2.751075e-004
531	-3.916507e-005	-5.503801e-004	-2.894878e-004
532	-1.784902e-007	-5.475202e-004	2.972325e-004
533	-7.914780e-007	3.591779e-004	2.853018e-004
534	-8.625867e-006	8.274368e-004	2.756792e-004
535	-6.591079e-005	7.751781e-004	-2.706476e-004
536	-6.751994e-005	3.172295e-004	-2.569794e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
537	-7.206017e-005	-1.008833e-004	-2.824690e-004
538	-7.626889e-005	-5.770350e-004	-3.046635e-004
539	-2.948030e-005	-5.762566e-004	3.155755e-004
540	-3.315521e-005	-9.774721e-005	2.930145e-004
541	-3.674111e-005	3.274417e-004	2.709831e-004
542	-3.834410e-005	7.896829e-004	2.803009e-004
543	-1.290430e-004	6.558159e-004	-2.710666e-004
544	-1.422691e-004	1.726213e-004	-2.763970e-004
545	-1.517773e-004	-7.435178e-004	-2.797560e-004
546	-9.623568e-005	-7.613436e-004	2.956301e-004
547	-1.070176e-004	1.170981e-004	2.935942e-004
548	-1.058038e-004	5.819083e-004	2.863741e-004
549	-1.730074e-004	4.570822e-004	-2.776218e-004
550	-1.806103e-004	-5.224178e-005	-2.804814e-004
551	-1.890141e-004	-9.999116e-004	-2.782376e-004
552	-1.192312e-004	-1.048294e-003	2.864551e-004
553	-1.347441e-004	-2.132386e-004	2.903457e-004
554	-1.407083e-004	2.376738e-004	2.890455e-004
555	-1.870938e-004	2.259963e-004	-2.803421e-004
556	-1.879911e-004	-2.982301e-004	-2.829605e-004
557	-1.878770e-004	-1.270078e-003	-2.815471e-004
558	-1.016897e-004	-1.352442e-003	2.692469e-004
559	-1.241753e-004	-5.750304e-004	2.755847e-004
560	-1.347149e-004	-1.536174e-004	2.769195e-004
561	-1.794888e-004	6.497885e-006	-2.788029e-004
562	-1.742390e-004	-5.191365e-004	-2.822085e-004
563	-1.631478e-004	-1.492303e-003	-2.830483e-004
564	-6.123628e-005	-1.603733e-003	2.423970e-004
565	-8.942916e-005	-8.975985e-004	2.505845e-004
566	-1.026343e-004	-5.144385e-004	2.533714e-004
567	-1.596199e-004	-1.742930e-004	-2.738051e-004
568	-1.496156e-004	-6.893685e-004	-2.779804e-004
569	-1.300478e-004	-1.641694e-003	-2.812834e-004
570	-1.503849e-005	-1.773524e-003	2.102453e-004
571	-4.483188e-005	-1.142349e-003	2.196055e-004
572	-5.871590e-005	-7.994769e-004	2.234200e-004
573	-1.340245e-004	-3.033573e-004	-2.659206e-004
574	-1.205863e-004	-7.979529e-004	-2.706409e-004
575	-9.508630e-005	-1.710807e-003	-2.762443e-004
576	2.955000e-005	-1.853110e-003	1.764890e-004
577	8.944758e-007	-1.293433e-003	1.863174e-004
578	-1.238752e-005	-9.890346e-004	1.907537e-004
579	-1.073540e-004	-3.774387e-004	-2.558500e-004
580	-9.207918e-005	-8.445690e-004	-2.609215e-004
581	-6.384051e-005	-1.705318e-003	-2.682620e-004
582	6.718253e-005	-1.849360e-003	1.447179e-004
583	4.209679e-005	-1.351828e-003	1.542096e-004
584	3.051071e-005	-1.080905e-003	1.587922e-004
585	-8.233061e-005	-3.995614e-004	-2.444029e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
586	-6.645109e-005	-8.352078e-004	-2.497713e-004
587	-3.762696e-005	-1.637044e-003	-2.583560e-004
588	9.770990e-005	-1.775170e-003	1.167220e-004
589	7.712464e-005	-1.327143e-003	1.253715e-004
590	6.761737e-005	-1.083011e-003	1.296919e-004
591	-6.024742e-005	-3.760090e-004	-2.320908e-004
592	-4.446667e-005	-7.781340e-004	-2.377291e-004
593	-1.610720e-005	-1.517722e-003	-2.472321e-004
594	1.220084e-004	-1.643224e-003	9.299657e-005
595	1.057192e-004	-1.231979e-003	1.006041e-004
596	9.819036e-005	-1.007861e-003	1.044422e-004
597	-4.170202e-005	-3.145157e-004	-2.191417e-004
598	-2.644129e-005	-6.823639e-004	-2.249708e-004
599	8.312818e-007	-1.358496e-003	-2.351115e-004
600	1.404454e-004	-1.465814e-003	7.362113e-005
601	1.278436e-004	-1.080110e-003	8.015520e-005
602	1.220071e-004	-8.699655e-004	8.343850e-005
603	-2.695215e-005	-2.233993e-004	-2.056421e-004
604	-1.249672e-005	-5.571670e-004	-2.115382e-004
605	1.323328e-005	-1.170260e-003	-2.220350e-004
606	1.531601e-004	-1.255297e-003	5.853053e-005
607	1.435021e-004	-8.859668e-004	6.407513e-005
608	1.390077e-004	-6.848436e-004	6.682167e-005
609	-1.609760e-005	-1.111284e-004	-1.916262e-004
610	-2.668377e-006	-4.118234e-004	-1.974310e-004
611	2.114285e-005	-9.637331e-004	-2.079896e-004
612	1.601655e-004	-1.024270e-003	4.762707e-005
613	1.526788e-004	-6.644444e-004	5.235802e-005
614	1.491587e-004	-4.686221e-004	5.464235e-005
615	-9.182377e-006	1.388754e-005	-1.770996e-004
616	3.050867e-006	-2.554883e-004	-1.826317e-004
617	2.464062e-005	-7.493939e-004	-1.929531e-004
618	1.613889e-004	-7.856524e-004	4.083523e-005
619	1.553217e-004	-4.308396e-004	4.499820e-005
620	1.523558e-004	-2.379228e-004	4.692011e-005
621	-6.319083e-006	1.432859e-004	-1.619022e-004
622	4.674577e-006	-9.711234e-005	-1.671303e-004
623	2.386807e-005	-5.373556e-004	-1.769037e-004
624	1.567097e-004	-5.527446e-004	3.815309e-005
625	1.513252e-004	-2.008222e-004	4.198289e-005
626	1.482243e-004	-1.002580e-005	4.359917e-005
627	-7.181761e-006	2.651935e-004	-1.462362e-004
628	2.402198e-006	4.777436e-005	-1.515455e-004
629	1.928398e-005	-3.523625e-004	-1.609034e-004
630	1.473826e-004	-3.553813e-004	3.953154e-005
631	1.420347e-004	-1.181349e-005	4.276543e-005
632	1.382097e-004	1.732938e-004	4.421836e-005
633	-1.154793e-005	3.718876e-004	-1.305240e-004
634	-3.043932e-006	1.749100e-004	-1.342453e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
635	3.710651e-006	-6.117585e-006	-1.397221e-004
636	1.061456e-005	-1.894778e-004	-1.448013e-004
637	1.339316e-004	-1.809583e-004	4.588647e-005
638	1.301981e-004	-1.093346e-005	4.575492e-005
639	1.264264e-004	1.541346e-004	4.550719e-005
640	1.242766e-004	3.329148e-004	4.792162e-005
641	-1.802332e-005	4.599682e-004	-1.152521e-004
642	-1.153008e-005	2.793718e-004	-1.191171e-004
643	1.548635e-006	-5.333743e-005	-1.267139e-004
644	1.163010e-004	-3.730392e-005	4.998406e-005
645	1.110092e-004	2.886592e-004	5.324637e-005
646	1.087403e-004	4.641622e-004	5.377511e-005
647	-2.527121e-005	5.265860e-004	-1.011154e-004
648	-1.928803e-005	3.602993e-004	-1.044409e-004
649	-7.785122e-006	5.510806e-005	-1.108826e-004
650	1.010430e-004	7.528962e-005	5.495500e-005
651	9.613544e-005	3.915626e-004	5.869583e-005
652	9.373715e-005	5.630254e-004	6.004324e-005
653	-3.203047e-005	5.725523e-004	-8.811402e-005
654	-2.668847e-005	4.189413e-004	-9.096658e-005
655	-1.677641e-005	1.373691e-004	-9.654609e-005
656	8.724346e-005	1.596184e-004	5.952978e-005
657	8.253639e-005	4.658762e-004	6.329371e-005
658	8.015276e-005	6.322434e-004	6.498771e-005
659	-3.830603e-005	5.994516e-004	-7.634062e-005
660	-3.369818e-005	4.567407e-004	-7.878657e-005
661	-2.524903e-005	1.951972e-004	-8.358825e-005
662	7.472475e-005	2.182914e-004	6.360105e-005
663	7.024662e-005	5.144142e-004	6.728848e-005
664	6.796589e-005	6.753480e-004	6.902734e-005
665	-4.413603e-005	6.088771e-004	-6.582356e-005
666	-4.023613e-005	4.753187e-004	-6.789709e-005
667	-3.310831e-005	2.305267e-004	-7.197336e-005
668	6.342235e-005	2.537645e-004	6.719979e-005
669	5.922136e-005	5.398175e-004	7.075992e-005
670	5.708306e-005	6.953034e-004	7.245750e-005
671	-4.948078e-005	6.024771e-004	-5.655614e-005
672	-4.622742e-005	4.764491e-004	-5.828060e-005
673	-4.028932e-005	2.454270e-004	-6.167520e-005
674	5.329849e-005	2.683768e-004	7.036156e-005
675	4.941621e-005	5.445875e-004	7.375380e-005
676	4.744280e-005	6.947415e-004	7.538124e-005
677	-5.428053e-005	5.820084e-004	-4.852320e-005
678	-5.161101e-005	4.620317e-004	-4.991909e-005
679	-4.674518e-005	2.420686e-004	-5.267083e-005
680	4.432594e-005	2.643790e-004	7.311128e-005
681	4.079533e-005	5.311153e-004	7.630087e-005
682	3.900350e-005	6.761344e-004	7.783919e-005
683	-5.848213e-005	5.493361e-004	-4.170755e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
684	-5.633903e-005	4.340683e-004	-4.279576e-005
685	-5.244051e-005	2.227007e-004	-4.494142e-005
686	3.648240e-005	2.439529e-004	7.546498e-005
687	3.333110e-005	5.017055e-004	7.842145e-005
688	3.173537e-005	6.418552e-004	7.985393e-005
689	-6.204433e-005	5.064110e-004	-3.608820e-005
690	-6.037439e-005	3.946420e-004	-3.689287e-005
691	-5.734553e-005	1.896389e-004	-3.847203e-005
692	2.974831e-005	2.092224e-004	7.743396e-005
693	2.700364e-005	4.585952e-004	8.012885e-005
694	2.561880e-005	5.942059e-004	8.143963e-005
695	-6.493693e-005	4.552437e-004	-3.163710e-005
696	-6.368791e-005	3.458960e-004	-3.218701e-005
697	-6.143053e-005	1.452609e-004	-3.324887e-005
698	2.410749e-005	1.622584e-004	7.902789e-005
699	2.180146e-005	4.039709e-004	8.143260e-005
700	2.064551e-005	5.354397e-004	8.260531e-005
701	-6.713876e-005	3.978789e-004	-2.832377e-005
702	-6.625649e-005	2.900104e-004	-2.864208e-005
703	-6.466083e-005	9.200463e-005	-2.925325e-005
704	1.955063e-005	1.050872e-004	8.025297e-005
705	1.772184e-005	3.399821e-004	8.234085e-005
706	1.682653e-005	4.677849e-004	8.335873e-005
707	-6.863830e-005	3.363923e-004	-2.614445e-005
708	-6.806596e-005	2.291709e-004	-2.620386e-005
709	-6.698971e-005	3.236421e-005	-2.644759e-005
710	1.607884e-005	3.971269e-005	8.109464e-005
711	1.476773e-005	2.687505e-004	8.286368e-005
712	1.422334e-005	3.934889e-004	8.371775e-005
713	-6.945451e-005	2.729162e-004	-2.513215e-005
714	-6.914199e-005	1.655245e-004	-2.482446e-005
715	-6.832923e-005	-3.112549e-005	-2.472787e-005
716	1.368703e-005	-3.182025e-005	8.144634e-005
717	1.294995e-005	1.923601e-004	8.304094e-005
718	1.295505e-005	3.148851e-004	8.374577e-005
719	-6.972166e-005	2.094451e-004	-2.495076e-005
720	-6.978297e-005	1.011224e-004	-2.472678e-005
721	-6.908392e-005	1.683741e-006	-2.421616e-005
722	-6.835519e-005	-9.592681e-005	-2.366759e-005
723	1.220249e-005	-1.072699e-004	8.081895e-005
724	1.234834e-005	1.739289e-006	8.203987e-005
725	1.247284e-005	1.127959e-004	8.322595e-005
726	1.262905e-005	2.340978e-004	8.363699e-005

Prueba de carga 11

Desplazamientos de nudos

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
1	1.647140e-007	5.302082e-007	-4.430905e-008
2	1.638251e-007	2.525938e-007	-4.593077e-008
3	1.646878e-007	-3.251493e-009	-4.689323e-008
4	1.653726e-007	-2.611396e-007	-4.785568e-008
5	-1.655545e-007	-2.614462e-007	-4.757640e-008
6	-1.648664e-007	-3.273428e-009	-4.661477e-008
7	-1.639957e-007	2.528421e-007	-4.565313e-008
8	-1.648821e-007	5.307430e-007	-4.403162e-008
9	1.665533e-007	4.455636e-007	-4.250409e-008
10	1.663316e-007	1.642605e-007	-4.420562e-008
11	1.654526e-007	-3.538188e-007	-4.670746e-008
12	-1.656282e-007	-3.535691e-007	-4.641063e-008
13	-1.665038e-007	1.650549e-007	-4.392054e-008
14	-1.667143e-007	4.466382e-007	-4.222836e-008
15	1.690812e-007	3.680219e-007	-3.707990e-008
16	1.685795e-007	8.261068e-008	-3.920156e-008
17	1.673960e-007	-4.419774e-007	-4.309867e-008
18	-1.675586e-007	-4.410987e-007	-4.274480e-008
19	-1.687287e-007	8.397576e-008	-3.889936e-008
20	-1.692103e-007	3.696200e-007	-3.681395e-008
21	1.723906e-007	3.047084e-007	-2.823056e-008
22	1.717571e-007	1.380274e-008	-3.115206e-008
23	1.705093e-007	-5.205878e-007	-3.679933e-008
24	-1.706204e-007	-5.189241e-007	-3.634648e-008
25	-1.718392e-007	1.576586e-008	-3.083887e-008
26	-1.724361e-007	3.067751e-007	-2.800343e-008
27	1.768353e-007	2.620714e-007	-1.623991e-008
28	1.761445e-007	-3.630108e-008	-2.013242e-008
29	1.748507e-007	-5.843133e-007	-2.771714e-008
30	-1.748345e-007	-5.816317e-007	-2.713408e-008
31	-1.760776e-007	-3.375399e-008	-1.984417e-008
32	-1.767085e-007	2.644476e-007	-1.612183e-008
33	1.825974e-007	2.461659e-007	-1.193734e-009
34	1.818625e-007	-6.191171e-008	-6.146574e-009
35	1.805132e-007	-6.276913e-007	-1.581041e-008
36	-1.802434e-007	-6.237173e-007	-1.509359e-008
37	-1.815126e-007	-5.891411e-008	-5.969054e-009
38	-1.821574e-007	2.484849e-007	-1.316269e-009
39	1.897930e-007	2.629890e-007	1.693153e-008
40	1.890070e-007	-5.721007e-008	1.083792e-008
41	1.875878e-007	-6.451910e-007	-1.047535e-009
42	-1.868716e-007	-6.396841e-007	-2.459101e-010
43	-1.881729e-007	-5.413791e-008	1.074293e-008
44	-1.888320e-007	2.645286e-007	1.634943e-008
45	1.985727e-007	3.186653e-007	3.824446e-008
46	1.976820e-007	-1.628765e-008	3.087880e-008

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
47	1.961699e-007	-6.312142e-007	1.661195e-008
48	-1.947332e-007	-6.241019e-007	1.736078e-008
49	-1.960814e-007	-1.393888e-008	3.024191e-008
50	-1.967985e-007	3.181415e-007	3.686237e-008
51	2.093001e-007	4.197239e-007	6.304935e-008
52	2.080359e-007	6.690016e-008	5.405671e-008
53	2.063380e-007	-5.800676e-007	3.722750e-008
54	-2.038190e-007	-5.716637e-007	3.764804e-008
55	-2.052942e-007	6.706111e-008	5.246603e-008
56	-2.063033e-007	4.150025e-007	6.035420e-008
57	2.226796e-007	5.735848e-007	9.176496e-008
58	2.204980e-007	1.985801e-007	8.047769e-008
59	2.179215e-007	-4.859212e-007	6.088059e-008
60	-2.139107e-007	-4.772528e-007	6.049853e-008
61	-2.161167e-007	1.941114e-007	7.734524e-008
62	-2.178964e-007	5.612864e-007	8.703813e-008
63	2.374456e-007	7.866743e-007	1.219070e-007
64	2.377818e-007	3.852239e-007	1.102907e-007
65	2.334315e-007	1.625854e-008	9.897625e-008
66	2.284898e-007	-3.427750e-007	8.766178e-008
67	-2.228832e-007	-3.360349e-007	8.574133e-008
68	-2.271328e-007	1.390057e-008	9.528373e-008
69	-2.308410e-007	3.723380e-007	1.048261e-007
70	-2.304741e-007	7.620389e-007	1.146416e-007
71	2.470813e-007	9.514121e-007	1.398110e-007
72	2.446245e-007	5.352065e-007	1.283472e-007
73	2.411216e-007	-2.231607e-007	1.035384e-007
74	-2.335142e-007	-2.194671e-007	1.005586e-007
75	-2.365476e-007	5.143924e-007	1.212921e-007
76	-2.385904e-007	9.164885e-007	1.308788e-007
77	2.565835e-007	1.137223e-006	1.549398e-007
78	2.546090e-007	7.049686e-007	1.418994e-007
79	2.523764e-007	-8.649823e-008	1.149876e-007
80	-2.428823e-007	-8.694922e-008	1.112872e-007
81	-2.448704e-007	6.744903e-007	1.336593e-007
82	-2.465318e-007	1.089978e-006	1.445264e-007
83	2.737298e-007	1.446401e-006	1.688689e-007
84	2.723984e-007	9.847348e-007	1.538109e-007
85	2.703731e-007	1.373166e-007	1.239552e-007
86	-2.577875e-007	1.295154e-007	1.196410e-007
87	-2.596760e-007	9.374302e-007	1.444549e-007
88	-2.608445e-007	1.377437e-006	1.570235e-007
89	2.934027e-007	1.772798e-006	1.727332e-007
90	2.922446e-007	1.277762e-006	1.559122e-007
91	2.901619e-007	3.684709e-007	1.229971e-007
92	-2.742376e-007	3.526384e-007	1.185259e-007
93	-2.762616e-007	1.212147e-006	1.460914e-007
94	-2.773491e-007	1.680104e-006	1.602395e-007
95	3.152545e-007	2.097698e-006	1.667388e-007

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
96	3.140845e-007	1.565733e-006	1.482459e-007
97	3.118958e-007	5.884241e-007	1.121546e-007
98	-2.925071e-007	5.646283e-007	1.078949e-007
99	-2.947065e-007	1.481470e-006	1.385309e-007
100	-2.958686e-007	1.980680e-006	1.542832e-007
101	3.392192e-007	2.402819e-006	1.510477e-007
102	3.379868e-007	1.830397e-006	1.308364e-007
103	3.356662e-007	7.786686e-007	9.142269e-008
104	-3.128101e-007	7.476428e-007	8.774050e-008
105	-3.151965e-007	1.728186e-006	1.217621e-007
106	-3.164612e-007	2.262127e-006	1.392459e-007
107	3.653856e-007	2.670112e-006	1.257316e-007
108	3.640622e-007	2.053532e-006	1.036938e-007
109	3.615803e-007	9.206440e-007	6.075316e-008
110	-3.353449e-007	8.838605e-007	5.809171e-008
111	-3.379214e-007	1.935078e-006	9.579449e-008
112	-3.392831e-007	2.507522e-006	1.151512e-007
113	3.939226e-007	2.881653e-006	9.085081e-008
114	3.924712e-007	2.216936e-006	6.682443e-008
115	3.897891e-007	9.956609e-007	2.006127e-008
116	-3.602896e-007	9.555478e-007	1.901079e-008
117	-3.630516e-007	2.084956e-006	6.064498e-008
118	-3.644920e-007	2.699951e-006	8.199399e-008
119	4.250792e-007	3.019680e-006	4.650110e-008
120	4.234469e-007	2.302436e-006	2.025153e-008
121	4.205120e-007	9.848381e-007	-3.076520e-008
122	-3.877848e-007	9.451158e-007	-2.941512e-008
123	-3.907154e-007	2.160650e-006	1.631655e-008
124	-3.922012e-007	2.822447e-006	3.972906e-008
125	4.592000e-007	3.066694e-006	-7.156835e-009
126	4.573280e-007	2.291949e-006	-3.595187e-008
127	4.540705e-007	8.690619e-007	-9.185072e-008
128	-4.179055e-007	8.351565e-007	-8.708869e-008
129	-4.209665e-007	2.144952e-006	-3.723546e-008
130	-4.224204e-007	2.857859e-006	-1.179196e-008
131	4.966764e-007	3.005575e-006	-6.992019e-008
132	4.945972e-007	2.167629e-006	-1.016115e-007
133	4.909439e-007	6.289811e-007	-1.633071e-007
134	-4.506301e-007	6.084442e-007	-1.539271e-007
135	-4.537251e-007	2.020478e-006	-1.001544e-007
136	-4.548565e-007	2.788473e-006	-7.302341e-008
137	5.377319e-007	2.819541e-006	-1.416435e-007
138	5.358801e-007	1.912123e-006	-1.763744e-007
139	5.319050e-007	2.450588e-007	-2.451953e-007
140	-4.858770e-007	2.478801e-007	-2.298990e-007
141	-4.886087e-007	1.769411e-006	-1.727594e-007
142	-4.883076e-007	2.594921e-006	-1.452289e-007
143	5.829168e-007	2.492482e-006	-2.212792e-007
144	5.815007e-007	1.509019e-006	-2.595966e-007

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
145	5.786588e-007	-3.022933e-007	-3.374742e-007
146	-5.242144e-007	-2.636361e-007	-3.150674e-007
147	-5.240172e-007	1.373061e-006	-2.556704e-007
148	-5.204014e-007	2.254399e-006	-2.300933e-007
149	6.398087e-007	2.016685e-006	-2.990414e-007
150	6.272155e-007	9.435292e-007	-3.501937e-007
151	6.336258e-007	-3.702561e-008	-3.950670e-007
152	6.382976e-007	-1.032479e-006	-4.399403e-007
153	-5.732481e-007	-9.433971e-007	-4.096102e-007
154	-5.625763e-007	-5.280592e-008	-3.798250e-007
155	-5.504594e-007	8.110896e-007	-3.500398e-007
156	-5.548747e-007	1.746475e-006	-3.202326e-007
157	6.854486e-007	1.621859e-006	-3.417717e-007
158	6.751247e-007	4.712353e-007	-4.067582e-007
159	6.673827e-007	-1.626261e-006	-5.075386e-007
160	-5.887226e-007	-1.493977e-006	-4.685939e-007
161	-5.841023e-007	3.358305e-007	-4.105219e-007
162	-5.768544e-007	1.314383e-006	-3.769960e-007
163	7.255580e-007	1.319732e-006	-3.614099e-007
164	7.153041e-007	6.123991e-008	-4.418654e-007
165	6.973596e-007	-2.247806e-006	-5.634241e-007
166	-6.146489e-007	-2.158095e-006	-5.152242e-007
167	-6.127961e-007	-3.457342e-007	-4.674184e-007
168	-6.084100e-007	6.349562e-007	-4.444882e-007
169	7.897122e-007	9.264947e-007	-4.164994e-007
170	7.824826e-007	-4.870733e-007	-4.913126e-007
171	7.612476e-007	-3.097104e-006	-6.253799e-007
172	-6.470787e-007	-3.262648e-006	-5.564880e-007
173	-6.457511e-007	-1.468389e-006	-5.101593e-007
174	-6.455490e-007	-4.904394e-007	-4.864118e-007
175	8.731691e-007	3.732399e-007	-4.509400e-007
176	8.619037e-007	-1.184938e-006	-5.261233e-007
177	8.381897e-007	-4.051383e-006	-6.697153e-007
178	-6.769493e-007	-4.387434e-006	-5.724688e-007
179	-6.757308e-007	-2.504962e-006	-5.211121e-007
180	-6.753386e-007	-1.478944e-006	-4.942168e-007
181	9.609070e-007	-1.988367e-007	-4.608792e-007
182	9.483822e-007	-1.905545e-006	-5.388858e-007
183	9.237029e-007	-5.044702e-006	-6.905630e-007
184	-7.077666e-007	-5.527709e-006	-5.665266e-007
185	-7.066685e-007	-3.545504e-006	-5.074250e-007
186	-7.062647e-007	-2.464229e-006	-4.762561e-007
187	1.054801e-006	-7.476650e-007	-4.481457e-007
188	1.041974e-006	-2.609160e-006	-5.294963e-007
189	1.016527e-006	-6.034577e-006	-6.879166e-007
190	-7.411116e-007	-6.645905e-006	-5.383662e-007
191	-7.397662e-007	-4.547624e-006	-4.689945e-007
192	-7.394537e-007	-3.401987e-006	-4.324981e-007
193	1.155065e-006	-1.233702e-006	-4.137420e-007

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
194	1.142063e-006	-3.256195e-006	-4.981751e-007
195	1.115857e-006	-6.979293e-006	-6.623570e-007
196	-7.783004e-007	-7.703789e-006	-4.872000e-007
197	-7.763593e-007	-5.468674e-006	-4.052903e-007
198	-7.759947e-007	-4.247488e-006	-3.623679e-007
199	1.261380e-006	-1.618776e-006	-3.583020e-007
200	1.248119e-006	-3.807896e-006	-4.455333e-007
201	1.221103e-006	-7.838663e-006	-6.148656e-007
202	-8.204527e-007	-8.661707e-006	-4.118905e-007
203	-8.176135e-007	-6.265052e-006	-3.154261e-007
204	-8.169875e-007	-4.955059e-006	-2.650657e-007
205	1.373495e-006	-1.865892e-006	-2.825476e-007
206	1.359799e-006	-4.226942e-006	-3.725063e-007
207	1.331844e-006	-8.574624e-006	-5.467658e-007
208	-8.685223e-007	-9.477990e-006	-3.110032e-007
209	-8.644959e-007	-6.891615e-006	-1.982369e-007
210	-8.633726e-007	-5.477730e-006	-1.396005e-007
211	1.491554e-006	-1.939338e-006	-1.872752e-007
212	1.477003e-006	-4.477880e-006	-2.802738e-007
213	1.447831e-006	-9.151759e-006	-4.596875e-007
214	-9.232968e-007	-1.010844e-005	-1.828471e-007
215	-9.177504e-007	-7.301224e-006	-5.236430e-008
216	-9.157792e-007	-5.766975e-006	1.505998e-008
217	1.616535e-006	-1.804425e-006	-7.311110e-008
218	1.599995e-006	-4.527418e-006	-1.701839e-007
219	1.569001e-006	-9.537734e-006	-3.554761e-007
220	-9.854151e-007	-1.050592e-005	-2.557326e-008
221	-9.778164e-007	-7.444441e-006	1.236494e-007
222	-9.742404e-007	-5.772839e-006	1.996912e-007
223	1.750580e-006	-1.426916e-006	5.918608e-008
224	1.729944e-006	-4.344558e-006	-4.373769e-008
225	1.695379e-006	-9.703446e-006	-2.359394e-007
226	-1.055465e-006	-1.062023e-005	1.625897e-007
227	-1.044275e-006	-7.269350e-006	3.312173e-007
228	-1.037918e-006	-5.444332e-006	4.149859e-007
229	1.887360e-006	-8.072607e-007	2.017187e-007
230	1.864596e-006	-3.910520e-006	9.165333e-008
231	1.823956e-006	-9.609446e-006	-1.050089e-007
232	-1.136337e-006	-1.040367e-005	3.871191e-007
233	-1.117759e-006	-6.699440e-006	5.817337e-007
234	-1.110217e-006	-4.683240e-006	6.750000e-007
235	2.029275e-006	1.181651e-007	3.466517e-007
236	2.003945e-006	-3.155179e-006	2.337645e-007
237	1.956259e-006	-9.169351e-006	3.635555e-008
238	-1.229043e-006	-9.838184e-006	6.496939e-007
239	-1.199370e-006	-5.687206e-006	8.784507e-007
240	-1.188365e-006	-3.426955e-006	9.873479e-007
241	2.183454e-006	1.405429e-006	5.027489e-007
242	2.152144e-006	-2.032904e-006	3.867844e-007

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
243	2.096405e-006	-8.346103e-006	1.881923e-007
244	-1.331075e-006	-8.881321e-006	9.494514e-007
245	-1.287655e-006	-4.190982e-006	1.215095e-006
246	-1.271284e-006	-1.636864e-006	1.342299e-006
247	2.354312e-006	3.087944e-006	6.720586e-007
248	2.311008e-006	-5.134920e-007	5.503674e-007
249	2.245284e-006	-7.109140e-006	3.506639e-007
250	-1.441890e-006	-7.488456e-006	1.286391e-006
251	-1.383008e-006	-2.157026e-006	1.592185e-006
252	-1.362023e-006	7.505468e-007	1.743370e-006
253	2.545769e-006	5.204095e-006	8.532865e-007
254	2.486438e-006	1.433627e-006	7.231688e-007
255	2.399428e-006	-5.427059e-006	5.252093e-007
256	-1.558542e-006	-5.619040e-006	1.659434e-006
257	-1.489321e-006	4.653335e-007	2.011301e-006
258	-1.466118e-006	3.803191e-006	2.196091e-006
259	2.730471e-006	7.774346e-006	1.022505e-006
260	2.710926e-006	3.840066e-006	8.962465e-007
261	2.619210e-006	2.176598e-007	8.071760e-007
262	2.528581e-006	-3.267891e-006	7.209675e-007
263	-1.654468e-006	-3.237302e-006	2.060271e-006
264	-1.650408e-006	1.874633e-007	2.275376e-006
265	-1.635232e-006	3.723546e-006	2.481758e-006
266	-1.575758e-006	7.569753e-006	2.667326e-006
267	2.860358e-006	9.878248e-006	1.115029e-006
268	2.800280e-006	5.870422e-006	1.015949e-006
269	2.688075e-006	-1.404570e-006	8.122465e-007
270	-1.799397e-006	-1.187516e-006	2.355412e-006
271	-1.693008e-006	6.475041e-006	2.792420e-006
272	-1.658198e-006	1.067896e-005	2.989969e-006
273	2.972339e-006	1.216731e-005	1.175060e-006
274	2.906283e-006	8.088567e-006	1.065026e-006
275	2.802380e-006	6.446867e-007	8.460850e-007
276	-1.946365e-006	1.064184e-006	2.594584e-006
277	-1.805787e-006	9.490443e-006	3.057310e-006
278	-1.751153e-006	1.408421e-005	3.272563e-006
279	3.117959e-006	1.562911e-005	1.157327e-006
280	3.045647e-006	1.141448e-005	1.025291e-006
281	2.928432e-006	3.699007e-006	7.834025e-007
282	-2.199231e-006	4.422505e-006	2.850642e-006
283	-2.030315e-006	1.403647e-005	3.345899e-006
284	-1.954413e-006	1.926658e-005	3.578628e-006
285	3.246433e-006	1.917652e-005	1.016467e-006
286	3.159904e-006	1.478356e-005	8.622598e-007
287	3.018805e-006	6.738268e-006	5.878097e-007
288	-2.510254e-006	7.781512e-006	3.010603e-006
289	-2.315141e-006	1.865703e-005	3.532225e-006
290	-2.223444e-006	2.457032e-005	3.777735e-006
291	3.354235e-006	2.263042e-005	7.543201e-007

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
292	3.247090e-006	1.800455e-005	5.756046e-007
293	3.073710e-006	9.536451e-006	2.581924e-007
294	-2.882250e-006	1.089984e-005	3.076799e-006
295	-2.662050e-006	2.308579e-005	3.617998e-006
296	-2.556845e-006	2.971046e-005	3.872198e-006
297	3.440469e-006	2.581820e-005	3.720471e-007
298	3.306975e-006	2.088839e-005	1.641248e-007
299	3.092085e-006	1.186913e-005	-2.066823e-007
300	-3.317328e-006	1.353543e-005	3.051644e-006
301	-3.073625e-006	2.705512e-005	3.605395e-006
302	-2.955956e-006	3.440395e-005	3.864702e-006
303	3.505821e-006	2.857302e-005	-1.311539e-007
304	3.339821e-006	2.324908e-005	-3.737898e-007
305	3.072802e-006	1.351384e-005	-8.084282e-007
306	-3.817179e-006	1.544643e-005	2.937494e-006
307	-3.552286e-006	3.029688e-005	3.496578e-006
308	-3.423240e-006	3.836809e-005	3.757446e-006
309	3.551751e-006	3.073347e-005	-7.570802e-007
310	3.346310e-006	2.490474e-005	-1.040082e-006
311	3.014997e-006	1.425081e-005	-1.548982e-006
312	-4.383181e-006	1.639189e-005	2.736441e-006
313	-4.100249e-006	3.254285e-005	3.293437e-006
314	-3.961277e-006	4.131990e-005	3.552247e-006
315	3.580124e-006	3.214430e-005	-1.508050e-006
316	3.327607e-006	2.567888e-005	-1.836972e-006
317	2.918237e-006	1.386415e-005	-2.430475e-006
318	-5.016510e-006	1.613199e-005	2.450067e-006
319	-4.719613e-006	3.352495e-005	2.997365e-006
320	-4.572608e-006	4.297598e-005	3.250429e-006
321	3.592470e-006	3.265731e-005	-2.386829e-006
322	3.285381e-006	2.540191e-005	-2.766870e-006
323	2.782680e-006	1.214350e-005	-3.455085e-006
324	-5.718322e-006	1.442790e-005	2.079194e-006
325	-5.412495e-006	3.297489e-005	2.609040e-006
326	-5.259801e-006	4.305203e-005	2.852373e-006
327	3.587626e-006	3.213084e-005	-3.396648e-006
328	3.221640e-006	2.391301e-005	-3.832171e-006
329	2.609334e-006	8.886272e-006	-4.624920e-006
330	-6.490092e-006	1.104115e-005	1.623745e-006
331	-6.181115e-006	3.062356e-005	2.128154e-006
332	-6.025228e-006	4.126052e-005	2.355207e-006
333	3.557971e-006	3.042602e-005	-4.540291e-006
334	3.137590e-006	2.106204e-005	-5.034404e-006
335	2.401071e-006	3.900430e-006	-5.942464e-006
336	-7.334834e-006	5.732652e-006	1.083335e-006
337	-7.027054e-006	2.619999e-005	1.552559e-006
338	-6.869364e-006	3.730097e-005	1.744603e-006
339	3.501225e-006	2.740671e-005	-5.814555e-006
340	3.026688e-006	1.671148e-005	-6.368987e-006

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
341	2.168989e-006	-2.992047e-006	-7.415226e-006
342	-8.264812e-006	-1.738663e-006	4.632880e-007
343	-7.943994e-006	1.943003e-005	8.721696e-007
344	-7.786219e-006	3.084262e-005	9.965514e-007
345	3.505921e-006	2.299776e-005	-7.194857e-006
346	2.830118e-006	1.073669e-005	-7.788964e-006
347	2.416138e-006	-4.922065e-007	-8.465169e-006
348	1.976469e-006	-1.195025e-005	-9.091967e-006
349	-9.360137e-006	-1.161756e-005	-1.760400e-007
350	-9.104837e-006	-6.370492e-007	-7.844976e-008
351	-8.858759e-006	1.003516e-005	1.908817e-008
352	-8.758335e-006	2.161345e-005	2.362252e-007
353	3.551331e-006	1.904890e-005	-8.169442e-006
354	2.856110e-006	5.482652e-006	-8.917622e-006
355	1.732969e-006	-1.954675e-005	-1.018353e-005
356	-9.938185e-006	-2.013562e-005	-7.305665e-007
357	-9.634787e-006	1.707555e-006	-4.092151e-007
358	-9.415230e-006	1.346120e-005	-2.333974e-007
359	3.665636e-006	1.450787e-005	-9.176159e-006
360	2.923672e-006	-4.868816e-007	-9.954067e-006
361	1.643794e-006	-2.807874e-005	-1.126349e-005
362	-1.047624e-005	-2.975839e-005	-1.086419e-006
363	-1.021186e-005	-7.810137e-006	-7.426120e-007
364	-1.002953e-005	4.075697e-006	-5.820752e-007
365	4.041803e-006	6.682032e-006	-1.069434e-005
366	3.208011e-006	-1.078183e-005	-1.147310e-005
367	1.751980e-006	-4.284323e-005	-1.286276e-005
368	-1.112701e-005	-4.640132e-005	-1.336342e-006
369	-1.084382e-005	-2.432825e-005	-9.687774e-007
370	-1.069756e-005	-1.232008e-005	-7.980677e-007
371	4.642447e-006	-1.739097e-006	-1.207295e-005
372	3.721370e-006	-2.184414e-005	-1.287826e-005
373	2.100271e-006	-5.876694e-005	-1.432866e-005
374	-1.152481e-005	-6.435648e-005	-1.241912e-006
375	-1.117617e-005	-4.210285e-005	-8.215400e-007
376	-1.101115e-005	-2.998095e-005	-6.229053e-007
377	5.468118e-006	-1.015194e-005	-1.334652e-005
378	4.464640e-006	-3.306224e-005	-1.417622e-005
379	2.688684e-006	-7.516222e-005	-1.566373e-005
380	-1.167114e-005	-8.280844e-005	-7.978870e-007
381	-1.121437e-005	-6.015921e-005	-2.945032e-007
382	-1.100332e-005	-4.781237e-005	-5.313243e-008
383	6.517756e-006	-1.797046e-005	-1.453021e-005
384	5.437284e-006	-4.381558e-005	-1.537337e-005
385	3.517479e-006	-9.133062e-005	-1.687515e-005
386	-1.156770e-005	-1.009484e-004	6.013843e-009
387	-1.095790e-005	-7.753140e-005	6.188708e-007
388	-1.067906e-005	-6.475804e-005	9.154544e-007
389	7.790306e-006	-2.460852e-005	-1.563171e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
390	6.638244e-006	-5.347842e-005	-1.647698e-005
391	4.585585e-006	-1.065709e-004	-1.797245e-005
392	-1.121334e-005	-1.179747e-004	1.182324e-006
393	-1.040295e-005	-9.326180e-005	1.926799e-006
394	-1.003389e-005	-7.977558e-005	2.288967e-006
395	9.285377e-006	-2.947673e-005	-1.665858e-005
396	8.066517e-006	-6.142365e-005	-1.749590e-005
397	5.891026e-006	-1.201854e-004	-1.896729e-005
398	-1.060389e-005	-1.330939e-004	2.745148e-006
399	-9.542920e-006	-1.064018e-004	3.638855e-006
400	-9.060046e-006	-9.183242e-005	4.074815e-006
401	1.100359e-005	-3.198387e-005	-1.762001e-005
402	9.721575e-006	-6.702610e-005	-1.844087e-005
403	7.431357e-006	-1.314854e-004	-1.987339e-005
404	-9.732318e-006	-1.455219e-004	4.709565e-006
405	-8.368756e-006	-1.160135e-004	5.765344e-006
406	-7.747506e-006	-9.990736e-005	6.281014e-006
407	1.294701e-005	-3.153823e-005	-1.852732e-005
408	1.160383e-005	-6.966486e-005	-1.932473e-005
409	9.204097e-006	-1.397953e-004	-2.070658e-005
410	-8.589005e-006	-1.544871e-004	7.090966e-006
411	-6.869355e-006	-1.211728e-004	8.316588e-006
412	-6.084478e-006	-1.029940e-004	8.915452e-006
413	1.511965e-005	-2.754791e-005	-1.939416e-005
414	1.371516e-005	-6.872433e-005	-2.016260e-005
415	1.120726e-005	-1.444549e-004	-2.148484e-005
416	-7.162204e-006	-1.592336e-004	9.904269e-006
417	-5.032162e-006	-1.209744e-004	1.130214e-005
418	-4.058021e-006	-1.001060e-004	1.198511e-005
419	1.752803e-005	-1.941965e-005	-2.023680e-005
420	1.605954e-005	-6.359373e-005	-2.097212e-005
421	1.344006e-005	-1.448202e-004	-2.222834e-005
422	-5.438758e-006	-1.590265e-004	1.316304e-005
423	-2.843953e-006	-1.145378e-004	1.472999e-005
424	-1.654878e-006	-9.028421e-005	1.549532e-005
425	2.018267e-005	-6.555636e-006	-2.107473e-005
426	1.864361e-005	-5.366474e-005	-2.177360e-005
427	1.590382e-005	-1.402624e-004	-2.295942e-005
428	-3.405282e-006	-1.531599e-004	1.687862e-005
429	-2.918696e-007	-1.010162e-004	1.860598e-005
430	1.137590e-006	-7.260558e-005	1.944925e-005
431	2.310541e-005	1.165594e-005	-2.193392e-005
432	2.147724e-005	-3.832738e-005	-2.259022e-005
433	1.860304e-005	-1.301627e-004	-2.370204e-005
434	-1.049948e-006	-1.409664e-004	2.105933e-005
435	2.635314e-006	-7.960683e-005	2.293381e-005
436	4.331539e-006	-4.619258e-005	2.385055e-005
437	2.635559e-005	3.587348e-005	-2.286165e-005
438	2.457423e-005	-1.696416e-005	-2.344944e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
439	2.154590e-005	-1.139049e-004	-2.447920e-005
440	1.635461e-006	-1.218322e-004	2.570900e-005
441	5.945430e-006	-4.956306e-005	2.771742e-005
442	7.947735e-006	-1.020314e-005	2.872877e-005
443	3.004496e-005	6.687760e-005	-2.395420e-005
444	2.795626e-005	1.105667e-005	-2.439425e-005
445	2.473898e-005	-9.086249e-005	-2.529484e-005
446	4.659486e-006	-9.521568e-005	3.081042e-005
447	9.638300e-006	-1.020703e-005	3.297277e-005
448	1.203992e-005	3.626600e-005	3.421762e-005
449	3.258724e-005	9.063472e-005	-2.469740e-005
450	3.031902e-005	3.287042e-005	-2.512813e-005
451	2.688676e-005	-7.206680e-005	-2.572628e-005
452	6.805179e-006	-7.380615e-005	3.421826e-005
453	1.224515e-005	2.018956e-005	3.660381e-005
454	1.501537e-005	7.174968e-005	3.797276e-005
455	3.484279e-005	1.175362e-004	-2.544499e-005
456	3.294489e-005	5.789697e-005	-2.630269e-005
457	3.096051e-005	3.008762e-006	-2.606008e-005
458	2.902417e-005	-5.001436e-005	-2.580563e-005
459	9.179359e-006	-4.902135e-005	3.753649e-005
460	1.205633e-005	2.261991e-006	3.922243e-005
461	1.490292e-005	5.484946e-005	4.074348e-005
462	1.784976e-005	1.119705e-004	4.166764e-005
463	3.766630e-005	1.640702e-004	-2.705491e-005
464	3.568681e-005	1.021875e-004	-2.721725e-005
465	3.187217e-005	-1.050846e-005	-2.783889e-005
466	1.172881e-005	-5.293979e-006	4.382240e-005
467	1.847569e-005	1.157630e-004	4.620715e-005
468	2.142691e-005	1.818771e-004	4.741486e-005
469	3.912014e-005	2.155154e-004	-2.920023e-005
470	3.677087e-005	1.510704e-004	-2.948314e-005
471	3.253910e-005	3.315283e-005	-3.022229e-005
472	1.274055e-005	4.269275e-005	4.960445e-005
473	2.017723e-005	1.826124e-004	5.186092e-005
474	2.359458e-005	2.587412e-004	5.295644e-005
475	3.882560e-005	2.690382e-004	-3.232101e-005
476	3.604698e-005	2.012586e-004	-3.264388e-005
477	3.116577e-005	7.711505e-005	-3.337894e-005
478	1.208804e-005	9.100745e-005	5.526147e-005
479	2.011383e-005	2.510759e-004	5.741921e-005
480	2.385622e-005	3.381091e-004	5.843029e-005
481	3.676318e-005	3.215666e-004	-3.635475e-005
482	3.348477e-005	2.495152e-004	-3.664172e-005
483	2.775450e-005	1.175697e-004	-3.734695e-005
484	9.752811e-006	1.356493e-004	6.089093e-005
485	1.829351e-005	3.167760e-004	6.291123e-005
486	2.228563e-005	4.152501e-004	6.383709e-005
487	3.293916e-005	3.701633e-004	-4.125724e-005

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
488	2.906110e-005	2.926529e-004	-4.147329e-005
489	2.228073e-005	1.507561e-004	-4.211879e-005
490	5.738030e-006	1.725783e-004	6.656223e-005
491	1.472189e-005	3.753042e-004	6.840477e-005
492	1.892350e-005	4.855178e-004	6.922869e-005
493	2.733777e-005	4.119998e-004	-4.703196e-005
494	2.274688e-005	3.275404e-004	-4.714659e-005
495	1.470804e-005	1.729602e-004	-4.768528e-005
496	5.792423e-008	1.977443e-004	7.234299e-005
497	9.412292e-006	4.222453e-004	7.397353e-005
498	1.378818e-005	5.442949e-004	7.467907e-005
499	1.992863e-005	4.443310e-004	-5.370174e-005
500	1.450576e-005	3.511104e-004	-5.367606e-005
501	4.991706e-006	1.805167e-004	-5.404142e-005
502	-7.265330e-006	2.071102e-004	7.830053e-005
503	2.386010e-006	4.532003e-004	7.969196e-005
504	6.901020e-006	5.869867e-004	8.026604e-005
505	1.066906e-005	4.644931e-004	-6.129499e-005
506	4.294174e-006	3.603687e-004	-6.108169e-005
507	-6.919514e-006	1.698176e-004	-6.118680e-005
508	-1.620381e-005	1.966712e-004	8.450144e-005
509	-6.328981e-006	4.638069e-004	8.563393e-005
510	-1.710006e-006	6.090381e-004	8.606706e-005
511	-5.084727e-007	4.698979e-004	-6.982733e-005
512	-7.938209e-006	3.524065e-004	-6.938752e-005
513	-2.108220e-005	1.373239e-004	-6.912594e-005
514	-2.672544e-005	1.624696e-004	9.101177e-005
515	-1.669983e-005	4.497562e-004	9.187174e-005
516	-1.201773e-005	6.059459e-004	9.215230e-005
517	-1.373517e-005	4.579789e-004	-7.924382e-005
518	-2.224812e-005	3.244147e-004	-7.861412e-005
519	-3.755759e-005	7.958136e-005	-7.787405e-005
520	-3.879445e-005	1.006077e-004	9.790068e-005
521	-2.869113e-005	4.068046e-004	9.847063e-005
522	-2.404421e-005	5.732169e-004	9.853527e-005
523	-2.919146e-005	4.260648e-004	-8.935044e-005
524	-3.869742e-005	2.736991e-004	-8.872583e-005
525	-5.641246e-005	-6.760046e-006	-8.750347e-005
526	-5.236804e-005	7.261876e-006	1.052766e-004
527	-4.227045e-005	3.307808e-004	1.054459e-004
528	-3.798064e-005	5.061231e-004	1.050151e-004
529	-4.641455e-005	3.717068e-004	-1.003071e-004
530	-5.733501e-005	1.976863e-004	-9.922096e-005
531	-7.773620e-005	-1.249154e-004	-9.849913e-005
532	-6.736656e-005	-1.212982e-004	1.136202e-004
533	-5.744428e-005	2.175806e-004	1.123941e-004
534	-5.344412e-005	3.997738e-004	1.114732e-004
535	-5.315451e-005	3.427054e-004	-1.053254e-004
536	-6.527753e-005	1.593540e-004	-1.024246e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
537	-7.636875e-005	-8.791806e-006	-1.035923e-004
538	-8.711307e-005	-1.814381e-004	-1.041828e-004
539	-7.365952e-005	-1.832613e-004	1.183263e-004
540	-6.880745e-005	-9.011447e-006	1.160655e-004
541	-6.407418e-005	1.607057e-004	1.138893e-004
542	-5.934439e-005	3.450780e-004	1.145682e-004
543	-6.972501e-005	2.593953e-004	-1.188915e-004
544	-8.398221e-005	4.680986e-005	-1.170505e-004
545	-1.080069e-004	-3.454262e-004	-1.139402e-004
546	-8.672406e-005	-3.629161e-004	1.244659e-004
547	-7.666668e-005	-6.636142e-006	1.236530e-004
548	-7.133846e-005	1.860936e-004	1.227071e-004
549	-8.342894e-005	1.599767e-004	-1.344037e-004
550	-9.846069e-005	-8.471051e-005	-1.316416e-004
551	-1.246533e-004	-5.344278e-004	-1.268519e-004
552	-9.306783e-005	-5.701320e-004	1.322981e-004
553	-8.209334e-005	-2.018557e-004	1.315433e-004
554	-7.678580e-005	-1.587250e-006	1.310007e-004
555	-9.308633e-005	5.301903e-005	-1.512659e-004
556	-1.089492e-004	-2.258054e-004	-1.476899e-004
557	-1.370098e-004	-7.379580e-004	-1.415483e-004
558	-9.271466e-005	-7.928494e-004	1.403567e-004
559	-8.017805e-005	-4.106858e-004	1.390945e-004
560	-7.426166e-005	-2.025974e-004	1.385324e-004
561	-9.888049e-005	-5.218727e-005	-1.697649e-004
562	-1.155712e-004	-3.670167e-004	-1.654706e-004
563	-1.451652e-004	-9.454401e-004	-1.579533e-004
564	-8.556221e-005	-1.018966e-003	1.485154e-004
565	-7.082277e-005	-6.188766e-004	1.464629e-004
566	-6.388082e-005	-4.009455e-004	1.456247e-004
567	-1.010390e-004	-1.465386e-004	-1.901097e-004
568	-1.184326e-004	-4.988334e-004	-1.851020e-004
569	-1.492377e-004	-1.146276e-003	-1.761568e-004
570	-7.147698e-005	-1.236387e-003	1.567746e-004
571	-5.393018e-005	-8.122384e-004	1.536289e-004
572	-4.566297e-005	-5.811624e-004	1.523484e-004
573	-9.971177e-005	-2.210357e-004	-2.124071e-004
574	-1.176423e-004	-6.117194e-004	-2.066850e-004
575	-1.493456e-004	-1.329879e-003	-1.962757e-004
576	-5.030912e-005	-1.433080e-003	1.651194e-004
577	-2.940841e-005	-9.767069e-004	1.605313e-004
578	-1.956322e-005	-7.280727e-004	1.586334e-004
579	-9.504875e-005	-2.667570e-004	-2.366909e-004
580	-1.133186e-004	-6.961518e-004	-2.303027e-004
581	-1.455791e-004	-1.485666e-003	-2.184291e-004
582	-2.189776e-005	-1.597117e-003	1.734819e-004
583	2.800242e-006	-1.098447e-003	1.670736e-004
584	1.441563e-005	-8.268243e-004	1.643578e-004
585	-8.727326e-005	-2.750064e-004	-2.628480e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
586	-1.056003e-004	-7.426934e-004	-2.559612e-004
587	-1.379386e-004	-1.602983e-003	-2.427123e-004
588	1.392782e-005	-1.716680e-003	1.816772e-004
589	4.265338e-005	-1.164029e-003	1.730974e-004
590	5.610453e-005	-8.631490e-004	1.693449e-004
591	-7.678199e-005	-2.377103e-004	-2.904212e-004
592	-9.467134e-005	-7.421708e-004	-2.834261e-004
593	-1.261831e-004	-1.670889e-003	-2.691295e-004
594	5.736084e-005	-1.779970e-003	1.892337e-004
595	8.984416e-005	-1.160759e-003	1.783092e-004
596	1.049243e-004	-8.239398e-004	1.733247e-004
597	-6.436376e-005	-1.483017e-004	-3.182478e-004
598	-8.082507e-005	-6.861416e-004	-3.118344e-004
599	-1.094655e-004	-1.677599e-003	-2.974398e-004
600	1.086745e-004	-1.774770e-003	1.949541e-004
601	1.433728e-004	-1.077419e-003	1.821018e-004
602	1.593093e-004	-6.985430e-004	1.759115e-004
603	-5.188824e-005	-3.678133e-006	-3.439767e-004
604	-6.570840e-005	-5.686681e-004	-3.388574e-004
605	-8.904127e-005	-1.611512e-003	-3.256723e-004
606	1.652441e-004	-1.689489e-003	1.978594e-004
607	1.996821e-004	-9.067634e-004	1.840334e-004
608	2.152893e-004	-4.819542e-004	1.770098e-004
609	-4.273895e-005	1.927481e-004	-3.642829e-004
610	-5.282456e-005	-3.907062e-004	-3.611150e-004
611	-6.885886e-005	-1.468826e-003	-3.505601e-004
612	2.205442e-004	-1.521345e-003	1.985544e-004
613	2.518182e-004	-6.520187e-004	1.852076e-004
614	2.656997e-004	-1.806505e-004	1.779425e-004
615	-4.184349e-005	4.276020e-004	-3.744780e-004
616	-4.712547e-005	-1.634896e-004	-3.740621e-004
617	-5.413373e-005	-1.256774e-003	-3.677337e-004
618	2.655722e-004	-1.281915e-003	1.989689e-004
619	2.898276e-004	-3.336218e-004	1.883306e-004
620	2.999961e-004	1.801671e-004	1.818586e-004
621	-5.634700e-005	6.730431e-004	-3.679737e-004
622	-5.742688e-005	8.618242e-005	-3.716279e-004
623	-5.920703e-005	-1.003198e-003	-3.685704e-004
624	2.822273e-004	-1.007793e-003	2.080492e-004
625	2.989047e-004	2.522214e-006	2.000722e-004
626	3.026803e-004	5.474825e-004	1.943422e-004
627	-9.180696e-005	8.766668e-004	-3.409406e-004
628	-9.027020e-005	2.992801e-004	-3.508275e-004
629	-9.470639e-005	-7.908313e-004	-3.523599e-004
630	2.630784e-004	-7.888152e-004	2.343608e-004
631	2.736174e-004	2.566076e-004	2.235524e-004
632	2.683135e-004	8.093153e-004	2.168608e-004
633	-1.443107e-004	9.915403e-004	-3.084752e-004
634	-1.416712e-004	4.253351e-004	-2.996392e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
635	-1.553197e-004	-9.829410e-005	-3.170569e-004
636	-1.678308e-004	-6.696339e-004	-3.326805e-004
637	2.204859e-004	-6.620777e-004	2.927078e-004
638	2.141513e-004	-1.016057e-004	2.717553e-004
639	2.074553e-004	4.103025e-004	2.503174e-004
640	2.157730e-004	9.618734e-004	2.533521e-004
641	-1.993620e-004	1.012307e-003	-2.803221e-004
642	-2.127459e-004	4.274799e-004	-2.814202e-004
643	-2.193715e-004	-6.773007e-004	-2.814790e-004
644	1.571463e-004	-6.706939e-004	3.155574e-004
645	1.611272e-004	4.190595e-004	3.087395e-004
646	1.661570e-004	9.954379e-004	2.950791e-004
647	-2.410193e-004	9.443240e-004	-2.643560e-004
648	-2.461758e-004	3.447534e-004	-2.659070e-004
649	-2.462199e-004	-7.690801e-004	-2.639085e-004
650	1.352081e-004	-7.677246e-004	3.289642e-004
651	1.360281e-004	3.277333e-004	3.304937e-004
652	1.362238e-004	9.179286e-004	3.258876e-004
653	-2.555999e-004	8.303415e-004	-2.558225e-004
654	-2.539474e-004	2.296409e-004	-2.590547e-004
655	-2.462807e-004	-8.805433e-004	-2.613273e-004
656	1.384345e-004	-8.855764e-004	3.226766e-004
657	1.317024e-004	1.981655e-004	3.300914e-004
658	1.275682e-004	7.850641e-004	3.312670e-004
659	-2.518652e-004	7.092661e-004	-2.516692e-004
660	-2.463881e-004	1.175218e-004	-2.562969e-004
661	-2.332430e-004	-9.738837e-004	-2.622770e-004
662	1.502067e-004	-9.840406e-004	3.050605e-004
663	1.383632e-004	7.236899e-005	3.160819e-004
664	1.318342e-004	6.454563e-004	3.200697e-004
665	-2.381885e-004	6.042841e-004	-2.501294e-004
666	-2.305651e-004	2.716019e-005	-2.556433e-004
667	-2.141526e-004	-1.036092e-003	-2.641295e-004
668	1.647581e-004	-1.049289e-003	2.821203e-004
669	1.503692e-004	-2.766158e-005	2.950346e-004
670	1.427794e-004	5.270598e-004	3.004481e-004
671	-2.198680e-004	5.270928e-004	-2.495101e-004
672	-2.110826e-004	-3.168570e-005	-2.552736e-004
673	-1.930914e-004	-1.059829e-003	-2.651490e-004
674	1.789125e-004	-1.073771e-003	2.574363e-004
675	1.637544e-004	-9.081997e-005	2.709885e-004
676	1.560493e-004	4.434161e-004	2.771380e-004
677	-2.007981e-004	4.816577e-004	-2.490988e-004
678	-1.920620e-004	-5.785202e-005	-2.544310e-004
679	-1.748758e-004	-1.049527e-003	-2.640355e-004
680	1.897219e-004	-1.062086e-003	2.351979e-004
681	1.760282e-004	-1.160282e-004	2.478043e-004
682	1.691585e-004	3.985212e-004	2.538382e-004
683	-1.828564e-004	4.675677e-004	-2.488858e-004

Nudo	Giro X (rad)	Desplazamientos Y (m)	Giro Z (rad)
684	-1.748254e-004	-5.362949e-005	-2.535380e-004
685	-1.594081e-004	-1.011062e-003	-2.621361e-004
686	1.985220e-004	-1.020384e-003	2.158195e-004
687	1.870389e-004	-1.063042e-004	2.268974e-004
688	1.813005e-004	3.910087e-004	2.323560e-004
689	-1.669162e-004	4.825425e-004	-2.489149e-004
690	-1.599126e-004	-2.224126e-005	-2.527779e-004
691	-1.466460e-004	-9.492069e-004	-2.600151e-004
692	2.058209e-004	-9.538593e-004	1.994385e-004
693	1.966963e-004	-6.593738e-005	2.088183e-004
694	1.921339e-004	4.171737e-004	2.134997e-004
695	-1.533615e-004	5.235137e-004	-2.491953e-004
696	-1.475202e-004	3.279165e-005	-2.522220e-004
697	-1.365416e-004	-8.681897e-004	-2.579119e-004
698	2.117638e-004	-8.674257e-004	1.860738e-004
699	2.049080e-004	1.643382e-007	1.937619e-004
700	2.014599e-004	4.721789e-004	1.976108e-004
701	-1.423434e-004	5.870975e-004	-2.496700e-004
702	-1.376945e-004	1.079121e-004	-2.518774e-004
703	-1.290087e-004	-7.718776e-004	-2.559428e-004
704	2.163375e-004	-7.659994e-004	1.757021e-004
705	2.115584e-004	8.670998e-005	1.817890e-004
706	2.090864e-004	5.505419e-004	1.848207e-004
707	-1.339215e-004	6.697188e-004	-2.501562e-004
708	-1.304016e-004	1.996068e-004	-2.516609e-004
709	-1.238843e-004	-6.637764e-004	-2.541794e-004
710	2.194674e-004	-6.546203e-004	1.682813e-004
711	2.164737e-004	1.880772e-004	1.729015e-004
712	2.146831e-004	6.462144e-004	1.751724e-004
713	-1.281670e-004	7.674791e-004	-2.502777e-004
714	-1.255139e-004	3.043487e-004	-2.512617e-004
715	-1.208915e-004	-5.469118e-004	-2.527115e-004
716	2.211467e-004	-5.384487e-004	1.637977e-004
717	2.192809e-004	2.982505e-004	1.669726e-004
718	2.176479e-004	7.523291e-004	1.686739e-004
719	-1.254663e-004	8.757805e-004	-2.495930e-004
720	-1.226115e-004	4.183551e-004	-2.497326e-004
721	-1.213258e-004	-2.258505e-006	-2.510058e-004
722	-1.199312e-004	-4.235820e-004	-2.521241e-004
723	2.222014e-004	-4.225861e-004	1.629696e-004
724	2.205517e-004	-4.518861e-006	1.631497e-004
725	2.187157e-004	4.106153e-004	1.630908e-004
726	2.178235e-004	8.610514e-004	1.655604e-004

Envoltente de esfuerzos (Estados límites últimos)

Cortantes

Viga	Tramo	Camión	
		MAX.	MIN.
1	1	6.95	-32.02
-	-	6.95	-32.02
1	2	7.63	-26.50
-	-	7.63	-26.50
1	3	8.29	-24.64
-	-	8.29	-24.64
1	4	8.94	-13.27
-	-	8.94	-13.27
1	5	9.59	-6.44
-	-	9.59	-6.44
1	6	10.26	-7.79
-	-	10.26	-7.79
1	7	24.48	-1.51
-	-	24.48	-1.51
1	8	38.63	-1.91
-	-	38.63	-1.91
1	9	40.70	-2.34
-	-	40.70	-2.34
1	10	46.60	-2.84
-	-	46.60	-2.84
1	11	14.75	-45.00
-	-	14.75	-45.00
1	12	13.76	-45.82
-	-	13.76	-45.82
1	13	12.58	-46.88
-	-	12.58	-46.88
1	14	11.41	-38.61
-	-	11.41	-38.61
1	15	10.35	-37.91
-	-	10.35	-37.91
1	16	11.45	-20.84
-	-	11.45	-20.84
1	17	14.35	-9.37
-	-	14.35	-9.37
1	18	13.43	-9.96
-	-	13.43	-9.96
1	19	12.76	-10.68
-	-	12.76	-10.68
1	20	29.71	-3.72
-	-	29.71	-3.72
1	21	31.10	-3.14
-	-	31.10	-3.14
1	22	40.30	-2.62
-	-	40.30	-2.62
1	23	40.10	-2.15

Viga	Tramo	Camión	
		MAX.	MIN.
-	-	40.10	-2.15
1	24	40.13	-1.73
-	-	40.13	-1.73
1	25	8.21	-38.48
-	-	8.21	-38.48
1	26	7.11	-40.25
-	-	7.11	-40.25
1	27	2.91	-45.15
-	-	2.91	-45.15
1	28	2.35	-47.02
-	-	2.35	-47.02
1	29	2.15	-47.04
-	-	2.15	-47.04
1	30	2.15	-36.48
-	-	2.15	-36.48
1	31	8.09	-37.28
-	-	8.09	-37.28
1	32	12.13	-15.28
-	-	12.13	-15.28
1	33	11.93	-10.91
-	-	11.93	-10.91
1	34	11.81	-10.90
-	-	11.81	-10.90
1	35	12.04	-10.98
-	-	12.04	-10.98
1	36	34.02	-11.31
-	-	34.02	-11.31
1	37	33.49	-3.08
-	-	33.49	-3.08
1	38	45.57	-2.89
-	-	45.57	-2.89
1	39	47.25	-3.56
-	-	47.25	-3.56
1	40	47.67	-6.09
-	-	47.67	-6.09
1	41	47.91	-8.81
-	-	47.91	-8.81
1	42	47.80	-11.76
-	-	47.80	-11.76
1	43	10.06	-47.23
-	-	10.06	-47.23
1	44	9.65	-49.07
-	-	9.65	-49.07
1	45	9.07	-50.44
-	-	9.07	-50.44
1	46	8.25	-39.85
-	-	8.25	-39.85
1	47	7.12	-40.62

Viga	Tramo	Camión	
		MAX.	MIN.
-	-	7.12	-40.62
1	48	6.16	-19.41
-	-	6.16	-19.41
1	49	10.05	-8.52
-	-	10.05	-8.52
1	50	9.55	-9.02
-	-	9.55	-9.02
1	51	15.40	-9.69
-	-	15.40	-9.69
1	52	36.63	-5.18
-	-	36.63	-5.18
1	53	36.63	-5.09
-	-	36.63	-5.09
1	54	48.24	-7.63
-	-	48.24	-7.63
1	55	47.63	-10.27
-	-	47.63	-10.27
1	56	46.26	-13.07
-	-	46.26	-13.07
1	57	14.74	-50.80
-	-	14.74	-50.80
1	58	13.36	-52.42
-	-	13.36	-52.42
1	59	11.54	-53.75
-	-	11.54	-53.75
1	60	9.62	-54.73
-	-	9.62	-54.73
1	61	7.80	-55.00
-	-	7.80	-55.00
1	62	6.03	-46.63
-	-	6.03	-46.63
1	63	9.73	-41.60
-	-	9.73	-41.60
1	64	11.44	-24.50
-	-	11.44	-24.50
1	65	11.39	-11.40
-	-	11.39	-11.40
1	66	11.38	-11.41
-	-	11.38	-11.41
1	67	24.76	-11.46
-	-	24.76	-11.46
1	68	41.72	-9.70
-	-	41.72	-9.70
1	69	46.82	-5.89
-	-	46.82	-5.89
1	70	55.17	-7.70
-	-	55.17	-7.70
1	71	54.95	-9.59

Viga	Tramo	Camión MAX.	Camión MIN.
-	-	54.95	-9.59
1	72	54.02	-11.59
-	-	54.02	-11.59
1	73	52.75	-13.49
-	-	52.75	-13.49
1	74	51.17	-14.95
-	-	51.17	-14.95
1	75	13.68	-50.55
-	-	13.68	-50.55
1	76	10.73	-52.12
-	-	10.73	-52.12
1	77	7.93	-44.21
-	-	7.93	-44.21
1	78	5.22	-41.08
-	-	5.22	-41.08
1	79	5.26	-24.21
-	-	5.26	-24.21
1	80	9.39	-9.16
-	-	9.39	-9.16
1	81	8.77	-9.66
-	-	8.77	-9.66
1	82	20.07	-10.02
-	-	20.07	-10.02
1	83	36.99	-7.62
-	-	36.99	-7.62
1	84	40.33	-10.04
-	-	40.33	-10.04
1	85	48.47	-12.41
-	-	48.47	-12.41
1	86	47.25	-14.79
-	-	47.25	-14.79
1	87	46.00	-16.68
-	-	46.00	-16.68
1	88	13.90	-48.06
-	-	13.90	-48.06
1	89	11.73	-49.60
-	-	11.73	-49.60
1	90	9.70	-50.37
-	-	9.70	-50.37
1	91	7.73	-50.53
-	-	7.73	-50.53
1	92	5.80	-41.20
-	-	5.80	-41.20
1	93	8.06	-37.28
-	-	8.06	-37.28
1	94	11.29	-19.58
-	-	11.29	-19.58
1	95	11.07	-11.80

Viga	Tramo	Camión MAX.	Camión MIN.
-	-	11.07	-11.80
1	96	10.89	-12.17
-	-	10.89	-12.17
1	97	25.24	-12.73
-	-	25.24	-12.73
1	98	43.17	-8.02
-	-	43.17	-8.02
1	99	45.71	-7.95
-	-	45.71	-7.95
1	100	53.84	-9.92
-	-	53.84	-9.92
1	101	51.80	-11.74
-	-	51.80	-11.74
1	102	49.24	-12.87
-	-	49.24	-12.87
1	103	46.58	-13.33
-	-	46.58	-13.33
1	104	8.27	-49.39
-	-	8.27	-49.39
1	105	5.46	-49.65
-	-	5.46	-49.65
1	106	3.02	-49.85
-	-	3.02	-49.85
1	107	1.48	-49.86
-	-	1.48	-49.86
1	108	1.05	-38.36
-	-	1.05	-38.36
1	109	8.48	-39.19
-	-	8.48	-39.19
1	110	7.43	-17.83
-	-	7.43	-17.83
1	111	6.58	-9.24
-	-	6.58	-9.24
1	112	6.76	-8.49
-	-	6.76	-8.49
1	113	13.06	-7.82
-	-	13.06	-7.82
1	114	30.52	-7.23
-	-	30.52	-7.23
1	115	27.85	-7.28
-	-	27.85	-7.28
1	116	36.66	-7.20
-	-	36.66	-7.20
1	117	32.63	-6.59
-	-	32.63	-6.59
2	118	6.95	-32.03
-	-	6.95	-32.03
2	119	7.63	-26.51

Viga	Tramo	Camión	
		MAX.	MIN.
-	-	7.63	-26.51
2	120	8.29	-24.64
-	-	8.29	-24.64
2	121	8.93	-13.27
-	-	8.93	-13.27
2	122	9.58	-6.42
-	-	9.58	-6.42
2	123	10.25	-7.75
-	-	10.25	-7.75
2	124	24.63	-3.26
-	-	24.63	-3.26
2	125	38.86	-3.25
-	-	38.86	-3.25
2	126	41.06	-5.52
-	-	41.06	-5.52
2	127	47.12	-7.91
-	-	47.12	-7.91
2	128	15.67	-44.81
-	-	15.67	-44.81
2	129	14.33	-45.50
-	-	14.33	-45.50
2	130	12.93	-46.46
-	-	12.93	-46.46
2	131	11.83	-38.11
-	-	11.83	-38.11
2	132	10.78	-37.39
-	-	10.78	-37.39
2	133	11.68	-20.41
-	-	11.68	-20.41
2	134	14.49	-9.19
-	-	14.49	-9.19
2	135	13.43	-10.07
-	-	13.43	-10.07
2	136	12.51	-11.26
-	-	12.51	-11.26
2	137	27.86	-4.51
-	-	27.86	-4.51
2	138	27.89	-3.35
-	-	27.89	-3.35
2	139	35.35	-3.72
-	-	35.35	-3.72
2	140	33.11	-6.39
-	-	33.11	-6.39
2	141	31.04	-9.24
-	-	31.04	-9.24
2	142	11.29	-38.67
-	-	11.29	-38.67
2	143	9.92	-38.38

Viga	Tramo	Camión	
		MAX.	MIN.
-	-	9.92	-38.38
2	144	9.02	-35.88
-	-	9.02	-35.88
2	145	7.18	-36.59
-	-	7.18	-36.59
2	146	5.47	-37.25
-	-	5.47	-37.25
2	147	5.06	-28.07
-	-	5.06	-28.07
2	148	11.01	-30.58
-	-	11.01	-30.58
2	149	13.70	-13.61
-	-	13.70	-13.61
2	150	12.30	-10.07
-	-	12.30	-10.07
2	151	11.16	-11.16
-	-	11.16	-11.16
2	152	11.16	-12.40
-	-	11.16	-12.40
2	153	31.40	-13.84
-	-	31.40	-13.84
2	154	28.44	-5.79
-	-	28.44	-5.79
2	155	36.14	-5.35
-	-	36.14	-5.35
2	156	33.52	-4.63
-	-	33.52	-4.63
2	157	30.81	-5.60
-	-	30.81	-5.60
2	158	28.46	-6.75
-	-	28.46	-6.75
2	159	28.12	-7.93
-	-	28.12	-7.93
2	160	11.76	-37.62
-	-	11.76	-37.62
2	161	9.61	-37.26
-	-	9.61	-37.26
2	162	7.16	-36.41
-	-	7.16	-36.41
2	163	5.22	-30.15
-	-	5.22	-30.15
2	164	4.44	-28.94
-	-	4.44	-28.94
2	165	9.28	-14.87
-	-	9.28	-14.87
2	166	11.61	-9.09
-	-	11.61	-9.09
2	167	10.31	-10.09

Viga	Tramo	Camión	
		MAX.	MIN.
-	-	10.31	-10.09
2	168	9.30	-11.40
-	-	9.30	-11.40
2	169	26.05	-3.84
-	-	26.05	-3.84
2	170	24.49	-3.01
-	-	24.49	-3.01
2	171	31.89	-3.50
-	-	31.89	-3.50
2	172	32.75	-4.79
-	-	32.75	-4.79
2	173	33.65	-6.05
-	-	33.65	-6.05
2	174	7.52	-41.57
-	-	7.52	-41.57
2	175	6.38	-42.02
-	-	6.38	-42.02
2	176	4.87	-41.96
-	-	4.87	-41.96
2	177	3.30	-40.98
-	-	3.30	-40.98
2	178	2.53	-38.81
-	-	2.53	-38.81
2	179	5.03	-33.20
-	-	5.03	-33.20
2	180	13.68	-26.94
-	-	13.68	-26.94
2	181	12.91	-15.79
-	-	12.91	-15.79
2	182	11.24	-9.88
-	-	11.24	-9.88
2	183	9.87	-11.25
-	-	9.87	-11.25
2	184	15.48	-12.93
-	-	15.48	-12.93
2	185	26.58	-13.65
-	-	26.58	-13.65
2	186	32.86	-5.06
-	-	32.86	-5.06
2	187	38.45	-2.50
-	-	38.45	-2.50
2	188	40.62	-3.48
-	-	40.62	-3.48
2	189	41.61	-5.10
-	-	41.61	-5.10
2	190	41.67	-6.63
-	-	41.67	-6.63
2	191	41.23	-7.76

Viga	Tramo	Camión	
		MAX.	MIN.
-	-	41.23	-7.76
2	192	6.02	-36.66
-	-	6.02	-36.66
2	193	4.66	-35.45
-	-	4.66	-35.45
2	194	3.26	-30.61
-	-	3.26	-30.61
2	195	3.09	-27.47
-	-	3.09	-27.47
2	196	7.73	-15.19
-	-	7.73	-15.19
2	197	10.77	-9.55
-	-	10.77	-9.55
2	198	9.53	-10.72
-	-	9.53	-10.72
2	199	12.57	-12.24
-	-	12.57	-12.24
2	200	24.94	-4.62
-	-	24.94	-4.62
2	201	28.36	-5.75
-	-	28.36	-5.75
2	202	33.48	-6.81
-	-	33.48	-6.81
2	203	35.06	-7.76
-	-	35.06	-7.76
2	204	35.42	-8.43
-	-	35.42	-8.43
2	205	6.95	-37.67
-	-	6.95	-37.67
2	206	5.14	-37.52
-	-	5.14	-37.52
2	207	3.51	-36.43
-	-	3.51	-36.43
2	208	3.27	-34.24
-	-	3.27	-34.24
2	209	4.50	-28.45
-	-	4.50	-28.45
2	210	11.56	-23.73
-	-	11.56	-23.73
2	211	12.54	-11.66
-	-	12.54	-11.66
2	212	10.92	-11.43
-	-	10.92	-11.43
2	213	9.62	-12.73
-	-	9.62	-12.73
2	214	17.12	-14.27
-	-	17.12	-14.27
2	215	28.19	-11.08

Viga	Tramo	Camión MAX.	Camión MIN.
-	-	28.19	-11.08
2	216	33.41	-5.71
-	-	33.41	-5.71
2	217	38.70	-3.77
-	-	38.70	-3.77
2	218	40.11	-5.77
-	-	40.11	-5.77
2	219	40.43	-8.47
-	-	40.43	-8.47
2	220	40.54	-11.54
-	-	40.54	-11.54
2	221	4.76	-34.53
-	-	4.76	-34.53
2	222	3.25	-35.67
-	-	3.25	-35.67
2	223	1.86	-37.12
-	-	1.86	-37.12
2	224	0.93	-39.59
-	-	0.93	-39.59
2	225	1.69	-30.20
-	-	1.69	-30.20
2	226	8.85	-33.58
-	-	8.85	-33.58
2	227	7.61	-14.28
-	-	7.61	-14.28
2	228	6.64	-8.68
-	-	6.64	-8.68
2	229	7.12	-8.64
-	-	7.12	-8.64
2	230	15.35	-8.56
-	-	15.35	-8.56
2	231	27.10	-8.41
-	-	27.10	-8.41
2	232	28.52	-8.18
-	-	28.52	-8.18
2	233	36.71	-7.83
-	-	36.71	-7.83
2	234	37.09	-7.30
-	-	37.09	-7.30

Momentos

Viga	Tramo	Camión MAX.	Camión MIN.
1	1	1.13	-1.44
-	-	62.29	-13.99
1	2	62.22	-15.87
-	-	113.89	-27.77
1	3	114.45	-30.53
-	-	162.50	-41.14
1	4	165.13	-45.01
-	-	185.83	-54.35
1	5	192.16	-59.44
-	-	175.94	-67.48
1	6	185.14	-73.86
-	-	174.51	-80.56
1	7	186.64	-88.29
-	-	138.97	-93.66
1	8	154.92	-102.70
-	-	90.66	-107.34
1	9	97.83	-117.03
-	-	34.97	-121.15
1	10	37.39	-131.08
-	-	8.22	-135.43
1	11	8.45	-141.84
-	-	6.15	-87.74
1	12	6.77	-94.34
-	-	4.44	-62.56
1	13	5.49	-56.16
-	-	39.43	-72.92
1	14	34.74	-63.16
-	-	98.68	-80.38
1	15	88.46	-70.36
-	-	158.18	-87.79
1	16	149.85	-77.75
-	-	188.81	-95.23
1	17	185.06	-86.97
-	-	191.47	-102.77
1	18	191.42	-96.20
-	-	201.63	-110.47
1	19	205.39	-105.50
-	-	182.63	-118.40
1	20	191.29	-114.93
-	-	135.73	-126.63
1	21	147.99	-124.61
-	-	92.60	-135.25
1	22	104.31	-134.66
-	-	41.64	-144.35

Viga	Tramo	Camión	
		MAX.	MIN.
1	23	44.63	-145.28
-	-	2.15	-153.99
1	24	2.77	-156.69
-	-	2.33	-164.12
1	25	2.83	-168.25
-	-	1.39	-120.25
1	26	2.33	-125.13
-	-	0.78	-86.30
1	27	2.11	-84.21
-	-	1.09	-85.77
1	28	2.01	-79.58
-	-	59.00	-82.93
1	29	55.99	-78.00
-	-	126.61	-81.18
1	30	113.44	-77.10
-	-	176.88	-80.36
1	31	165.72	-76.92
-	-	230.62	-80.26
1	32	223.06	-77.39
-	-	249.64	-80.78
1	33	246.82	-78.46
-	-	248.77	-81.82
1	34	249.66	-80.10
-	-	253.59	-83.34
1	35	258.28	-82.32
-	-	237.36	-85.31
1	36	247.04	-85.16
-	-	187.83	-87.69
1	37	201.66	-88.72
-	-	144.10	-89.95
1	38	161.38	-93.08
-	-	94.58	-91.03
1	39	104.55	-97.14
-	-	43.24	-91.14
1	40	46.55	-100.56
-	-	5.89	-90.26
1	41	5.85	-103.20
-	-	6.31	-93.71
1	42	6.27	-104.80
-	-	6.73	-153.13
1	43	6.59	-141.47
-	-	4.37	-148.00
1	44	4.51	-138.91
-	-	3.94	-146.45
1	45	8.15	-139.61
-	-	69.23	-147.59
1	46	59.88	-137.60
-	-	116.14	-147.42

Viga	Tramo	Camión	
		MAX.	MIN.
1	47	101.93	-136.46
-	-	167.35	-148.07
1	48	153.10	-139.40
-	-	186.91	-149.21
1	49	180.01	-143.81
-	-	184.27	-150.59
1	50	184.19	-148.70
-	-	188.13	-152.03
1	51	195.04	-153.87
-	-	168.24	-153.41
1	52	182.92	-159.17
-	-	122.08	-154.66
1	53	139.82	-164.52
-	-	86.67	-155.75
1	54	100.67	-169.84
-	-	41.26	-157.80
1	55	43.32	-175.10
-	-	3.05	-162.63
1	56	2.55	-180.17
-	-	5.45	-167.65
1	57	4.93	-180.69
-	-	4.91	-125.60
1	58	4.61	-139.40
-	-	4.60	-91.31
1	59	4.57	-104.08
-	-	4.39	-94.59
1	60	4.19	-83.18
-	-	66.17	-93.51
1	61	63.34	-82.34
-	-	133.71	-92.37
1	62	119.29	-81.38
-	-	187.89	-91.18
1	63	165.77	-81.79
-	-	237.89	-89.97
1	64	216.52	-83.80
-	-	263.42	-88.77
1	65	253.01	-85.78
-	-	254.24	-87.58
1	66	254.47	-87.77
-	-	253.06	-86.40
1	67	263.96	-89.78
-	-	216.56	-85.22
1	68	238.44	-91.81
-	-	166.51	-84.00
1	69	188.74	-93.87
-	-	120.21	-84.62
1	70	134.75	-95.91
-	-	64.48	-86.38

Viga	Tramo	Camión	
		MAX.	MIN.
1	71	67.48	-97.91
-	-	5.27	-88.04
1	72	4.40	-99.84
-	-	4.58	-103.04
1	73	4.59	-97.22
-	-	4.61	-138.21
1	74	4.89	-124.54
-	-	4.91	-179.48
1	75	5.48	-167.72
-	-	2.64	-180.21
1	76	2.86	-162.64
-	-	62.22	-175.14
1	77	53.91	-157.74
-	-	116.91	-169.89
1	78	101.37	-154.85
-	-	169.14	-164.59
1	79	150.22	-154.49
-	-	195.80	-159.23
1	80	185.67	-153.99
-	-	190.01	-153.83
1	81	188.32	-153.35
-	-	192.04	-148.39
1	82	198.86	-152.58
-	-	161.08	-142.91
1	83	176.84	-151.70
-	-	112.75	-137.41
1	84	129.42	-150.72
-	-	69.76	-134.59
1	85	79.51	-149.66
-	-	17.32	-133.74
1	86	15.51	-148.51
-	-	5.48	-132.93
1	87	5.07	-139.16
-	-	6.48	-137.67
1	88	6.73	-146.25
-	-	6.18	-98.86
1	89	6.18	-87.57
-	-	5.63	-99.26
1	90	8.95	-86.99
-	-	66.61	-99.31
1	91	62.88	-87.08
-	-	128.45	-99.22
1	92	113.36	-88.27
-	-	175.61	-99.01
1	93	154.20	-91.54
-	-	220.60	-98.72
1	94	203.66	-94.72
-	-	240.19	-98.36

Viga	Tramo	Camión	
		MAX.	MIN.
1	95	233.22	-97.85
-	-	227.54	-97.91
1	96	229.95	-100.92
-	-	222.71	-97.35
1	97	234.25	-103.93
-	-	187.14	-96.67
1	98	208.03	-106.83
-	-	138.26	-97.01
1	99	154.99	-109.60
-	-	91.79	-99.90
1	100	100.97	-112.19
-	-	36.13	-102.93
1	101	32.73	-114.57
-	-	0.95	-106.26
1	102	0.25	-115.93
-	-	1.71	-120.69
1	103	1.16	-118.35
-	-	2.52	-175.50
1	104	2.07	-158.02
-	-	2.31	-166.46
1	105	1.90	-149.01
-	-	25.38	-155.71
1	106	26.20	-139.34
-	-	85.05	-143.87
1	107	80.19	-129.80
-	-	145.01	-131.31
1	108	130.43	-119.90
-	-	186.56	-118.29
1	109	170.13	-109.24
-	-	232.41	-104.99
1	110	213.85	-98.00
-	-	245.09	-91.52
1	111	232.01	-86.34
-	-	236.91	-77.95
1	112	228.11	-74.32
-	-	235.49	-64.33
1	113	230.70	-62.01
-	-	212.18	-50.71
1	114	212.02	-49.45
-	-	158.43	-37.18
1	115	161.20	-36.70
-	-	112.29	-23.93
1	116	116.12	-23.92
-	-	57.81	-11.29
1	117	55.56	-11.47
-	-	1.83	-1.78
2	118	1.56	-1.25
-	-	62.31	-13.97

Viga	Tramo	Camión	
		MAX.	MIN.
2	119	62.24	-15.84
-	-	113.93	-27.73
2	120	114.50	-30.48
-	-	162.55	-41.08
2	121	165.21	-44.93
-	-	185.88	-54.29
2	122	192.27	-59.32
-	-	175.97	-67.44
2	123	185.27	-73.73
-	-	174.48	-80.58
2	124	186.76	-88.16
-	-	138.81	-93.90
2	125	154.99	-102.61
-	-	90.23	-107.77
2	126	97.78	-117.06
-	-	34.27	-121.86
2	127	37.12	-131.35
-	-	12.45	-136.52
2	128	7.68	-142.61
-	-	5.72	-88.71
2	129	6.13	-94.92
-	-	4.09	-63.38
2	130	4.91	-57.42
-	-	38.30	-73.76
2	131	34.70	-64.19
-	-	97.44	-81.19
2	132	87.34	-71.16
-	-	156.82	-88.58
2	133	149.25	-78.21
-	-	187.39	-95.94
2	134	184.18	-87.00
-	-	190.20	-103.26
2	135	190.29	-96.22
-	-	200.88	-110.50
2	136	204.18	-105.36
-	-	183.04	-117.58
2	137	190.37	-114.35
-	-	138.27	-124.41
2	138	148.05	-123.11
-	-	100.11	-130.88
2	139	106.47	-131.49
-	-	53.02	-136.88
2	140	50.58	-139.28
-	-	17.72	-142.21
2	141	13.49	-146.07
-	-	3.52	-146.57
2	142	3.36	-150.30
-	-	3.03	-102.53

Viga	Tramo	Camión	
		MAX.	MIN.
2	143	3.10	-104.89
-	-	2.81	-63.65
2	144	3.18	-60.48
-	-	15.25	-68.43
2	145	16.93	-61.86
-	-	71.24	-71.97
2	146	70.57	-65.09
-	-	133.50	-74.56
2	147	130.99	-69.08
-	-	179.88	-76.32
2	148	178.18	-72.37
-	-	231.43	-77.41
2	149	231.81	-75.03
-	-	249.97	-77.93
2	150	253.39	-77.10
-	-	250.25	-77.97
2	151	255.59	-78.62
-	-	257.77	-77.56
2	152	265.00	-79.60
-	-	245.61	-76.73
2	153	255.74	-80.00
-	-	203.22	-75.54
2	154	212.91	-79.78
-	-	167.44	-74.42
2	155	173.61	-78.88
-	-	119.21	-74.75
2	156	117.19	-78.11
-	-	68.45	-75.32
2	157	64.16	-77.77
-	-	23.74	-76.73
2	158	17.99	-77.88
-	-	9.18	-78.84
2	159	9.55	-78.39
-	-	9.95	-114.75
2	160	10.12	-114.69
-	-	7.70	-97.57
2	161	8.16	-99.21
-	-	20.59	-104.14
2	162	20.03	-106.43
-	-	85.74	-111.43
2	163	90.53	-114.28
-	-	138.17	-117.76
2	164	142.59	-120.39
-	-	195.18	-123.18
2	165	199.25	-125.16
-	-	217.33	-127.98
2	166	221.21	-128.93
-	-	218.90	-132.40

Viga	Tramo	Camión	
		MAX.	MIN.
2	167	220.93	-131.96
-	-	227.24	-136.57
2	168	227.27	-134.45
-	-	212.79	-140.59
2	169	212.14	-136.55
-	-	164.80	-144.48
2	170	162.96	-139.08
-	-	121.59	-148.27
2	171	118.18	-143.12
-	-	60.22	-151.93
2	172	59.85	-147.07
-	-	16.56	-155.37
2	173	14.69	-151.07
-	-	8.65	-158.45
2	174	7.81	-153.07
-	-	7.88	-113.37
2	175	7.50	-109.36
-	-	7.53	-69.88
2	176	7.61	-69.15
-	-	19.01	-61.31
2	177	17.76	-65.24
-	-	85.40	-62.50
2	178	83.44	-65.90
-	-	149.41	-63.70
2	179	153.21	-66.52
-	-	204.68	-64.82
2	180	211.30	-67.06
-	-	258.16	-65.84
2	181	265.62	-67.50
-	-	289.44	-66.73
2	182	294.03	-67.80
-	-	287.47	-67.48
2	183	287.77	-67.95
-	-	293.95	-68.08
2	184	289.96	-67.94
-	-	265.45	-68.55
2	185	258.59	-67.79
-	-	211.36	-68.88
2	186	204.74	-67.51
-	-	153.40	-69.11
2	187	149.61	-67.11
-	-	83.86	-69.26
2	188	85.81	-66.60
-	-	17.77	-69.35
2	189	19.64	-65.99
-	-	7.74	-69.39
2	190	7.67	-68.54
-	-	7.64	-107.97

Viga	Tramo	Camión	
		MAX.	MIN.
2	191	8.05	-111.85
-	-	7.97	-151.57
2	192	8.97	-157.31
-	-	17.25	-150.23
2	193	18.11	-154.32
-	-	74.90	-146.34
2	194	79.84	-150.89
-	-	134.87	-142.48
2	195	139.34	-147.18
-	-	193.29	-138.53
2	196	196.58	-143.26
-	-	223.87	-136.67
2	197	226.43	-139.16
-	-	223.46	-134.97
2	198	223.76	-134.91
-	-	231.22	-133.03
2	199	229.19	-130.51
-	-	206.40	-130.83
2	200	203.39	-126.04
-	-	154.39	-128.37
2	201	149.79	-123.54
-	-	100.14	-125.60
2	202	95.42	-120.79
-	-	33.06	-122.45
2	203	33.88	-117.88
-	-	9.08	-118.81
2	204	7.78	-111.04
-	-	9.39	-118.48
2	205	9.74	-119.74
-	-	9.37	-64.63
2	206	9.02	-68.14
-	-	25.08	-65.51
2	207	22.76	-69.70
-	-	85.46	-66.66
2	208	83.84	-71.19
-	-	143.56	-67.92
2	209	148.11	-72.62
-	-	193.12	-69.67
2	210	199.32	-74.00
-	-	245.54	-71.56
2	211	248.95	-75.29
-	-	270.19	-73.38
2	212	271.58	-76.50
-	-	263.85	-75.14
2	213	262.02	-77.62
-	-	265.31	-76.83
2	214	260.46	-78.68
-	-	235.90	-78.48

Viga	Tramo	Camión	
		MAX.	MIN.
2	215	229.80	-79.71
-	-	177.04	-80.08
2	216	169.51	-80.75
-	-	116.32	-81.62
2	217	107.81	-81.86
-	-	51.30	-83.03
2	218	38.68	-83.07
-	-	3.42	-84.15
2	219	2.77	-84.38
-	-	3.46	-109.74
2	220	2.97	-110.07
-	-	3.63	-176.90
2	221	3.19	-177.98
-	-	7.92	-159.77
2	222	16.11	-161.51
-	-	32.18	-146.04
2	223	38.38	-146.07
-	-	91.56	-133.06
2	224	93.55	-131.70
-	-	153.66	-120.67
2	225	146.50	-118.22
-	-	197.80	-108.69
2	226	189.14	-105.42
-	-	247.27	-96.99
2	227	237.40	-93.15
-	-	262.80	-85.46
2	228	254.40	-81.30
-	-	258.16	-74.05
2	229	250.18	-69.90
-	-	260.15	-62.71
2	230	252.80	-58.56
-	-	239.93	-51.36
2	231	234.66	-47.24
-	-	186.37	-39.91
2	232	182.61	-36.22
-	-	137.75	-28.10
2	233	134.85	-25.03
-	-	69.44	-15.44
2	234	67.23	-13.05
-	-	1.97	-1.64