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MASTER EN INGENIERÍA NAVAL Y OCEÁNICA

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ALUMNA: MARÍA DE LA LUZ MURAS CASAS

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**ANÁLISIS DE LA ESTABILIDAD DEL BUQUE EN
ESTADO DE AVERÍA MEDIANTE EL USO DE
METAMODELOS.**

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1.- Introducción:

El hundimiento en 1956 del buque Andrea Doria, abrió un debate dentro del mundo marítimo. Se planteó si, para alcanzar niveles de seguridad aceptables en los buques de pasaje, bastaba estudiar el compartimentado de los buques con los métodos de las esloras inundables, o era necesario desarrollar un nuevo método. Finalmente se comenzó a pensar en una nueva aproximación al problema.



(Buque Andrea Doria)

El estudio se abordó desde un punto de vista probabilista, que contemplara que la avería podía suceder en un punto determinado de la eslora, y con una cierta extensión de la misma, así como en qué condiciones el buque podría soportarla.

Los fundamentos del modelo probabilística fueron expuestos por el profesor Kurt Wendel (1960), y ampliados posteriormente por Comstock & Robertson (1961) y Volkov (1963) y de nuevo Wendel (1968). Basándose en estos trabajos, y en otros estudios adicionales, la Organización Marítima Internacional (OMI) adoptó en 1973 la Resolución A.265 (VIII). Esta última constituyó el marco normativo probabilístico, que se consideró equivalente a las aproximaciones determinísticas para el estudio de la estabilidad en averías para los buques de pasaje contenidas en el SOLAS 60 (esloras inundables).

Un tiempo más tarde, respecto a los buques de carga seca, en los años 80, la citada Organización Marítima Internacional (OMI), comenzó a trabajar en el desarrollo de una aproximación probabilística semejante a la previamente definida para los buques de pasaje. Esta resultó en una normativa obligatoria. Aunque conceptualmente tiene similitudes con el método incluido en la Resolución A.265 (VIII), incluye una serie de importantes novedades respecto al mismo.

Paradójicamente, mientras el estudio de la estabilidad en averías de los buques de carga seca avanzaba en una dirección, los nuevos desarrollos para los buques de pasaje se realizaban desde un punto de vista determinista (SOLAS 90, Acuerdo de Estocolmo, etc.), manteniéndose sin embargo la posibilidad de la aplicación de la Resolución A.265 (VIII) como alternativa completa al Capítulo II-1 del SOLAS. Esta norma iba quedando anticuada en algunos aspectos. Si bien la citada Resolución se consideraba equivalente a las Reglas del SOLAS 60, no estaba totalmente claro si lo era realmente respecto a las nuevas Reglas introducidas como enmiendas al Convenio SOLAS 74/88 (SOLAS 90).

Por otra parte, las aproximaciones deterministas del estudio dejaban clásicamente fuera de su alcance una serie de riesgos. Debe citarse como el más relevante no contemplar las averías de dimensión mayor que las asumidas en las Reglas. Esto implica que, evaluar el nivel de riesgo real asociado a la inundación, resulta muy complicado.

A raíz del accidente del Estonia, se afianza la necesidad de mejora de la seguridad de los buques, especialmente en el caso de la seguridad contra el hundimiento. Debido a ello, se asume como acción urgente en la Organización Marítima Internacional, la revisión de los criterios para los cálculo de compartimentado y estabilidad después de averías.



(Buque Estonia)

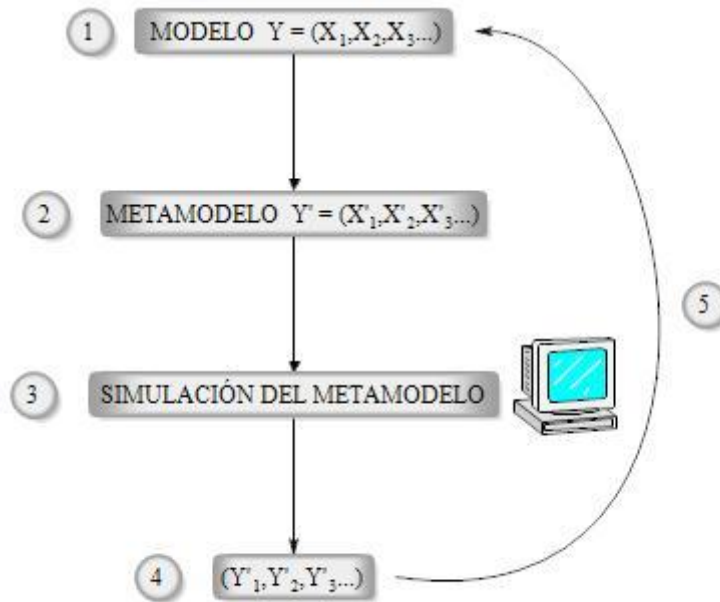
Debido a todo lo anterior, la OMI decidió armonizar los criterios que se aplicaban a los buques de carga y pasaje. La primera premisa que estableció fue que, en el nuevo procedimiento armonizado, el cálculo del compartimentado se realizara mediante un método probabilista. La segunda fue buscar una equivalencia en nivel de seguridad respecto a los buques que estaban navegando (SOLAS 90, etc.).

En el ámbito de estos desarrollos se deben destacar una serie de proyectos de investigación, como el “DAMA”, el “HARDER” y el “RoRoProb”, entre otros.

El resultado de las investigaciones realizadas, y del trabajo paralelo en OMI, constituye el nuevo Capítulo II-1 el SOLAS, que se ha dado en llamar “SOLAS 2009”.

2.- Concepto de Metamodelo.

A continuación se expondrá el concepto genérico de Metamodelo, para facilitar su comprensión se plantea el siguiente esquema:



1.- El modelo o sistema físico responde a la siguiente ecuación $Y = f(X)$, donde (X_1, X_2, X_3, \dots) son las variables de las que depende el sistema, las cuales determinan su comportamiento (Y) .

2.- Se procede a plantear unas nuevas variables $(X'_1, X'_2, X'_3, \dots)$, dando lugar a la obtención de un nuevo comportamiento por parte del Modelo, construyendo así una alternativa al Modelo, construyendo así su Metamodelo.

3.- Se procede a simular el Metamodelo, con el fin de obtener su comportamiento $(Y'_1, Y'_2, Y'_3, \dots)$ frente a las alternativas $(X'_1, X'_2, X'_3, \dots)$.

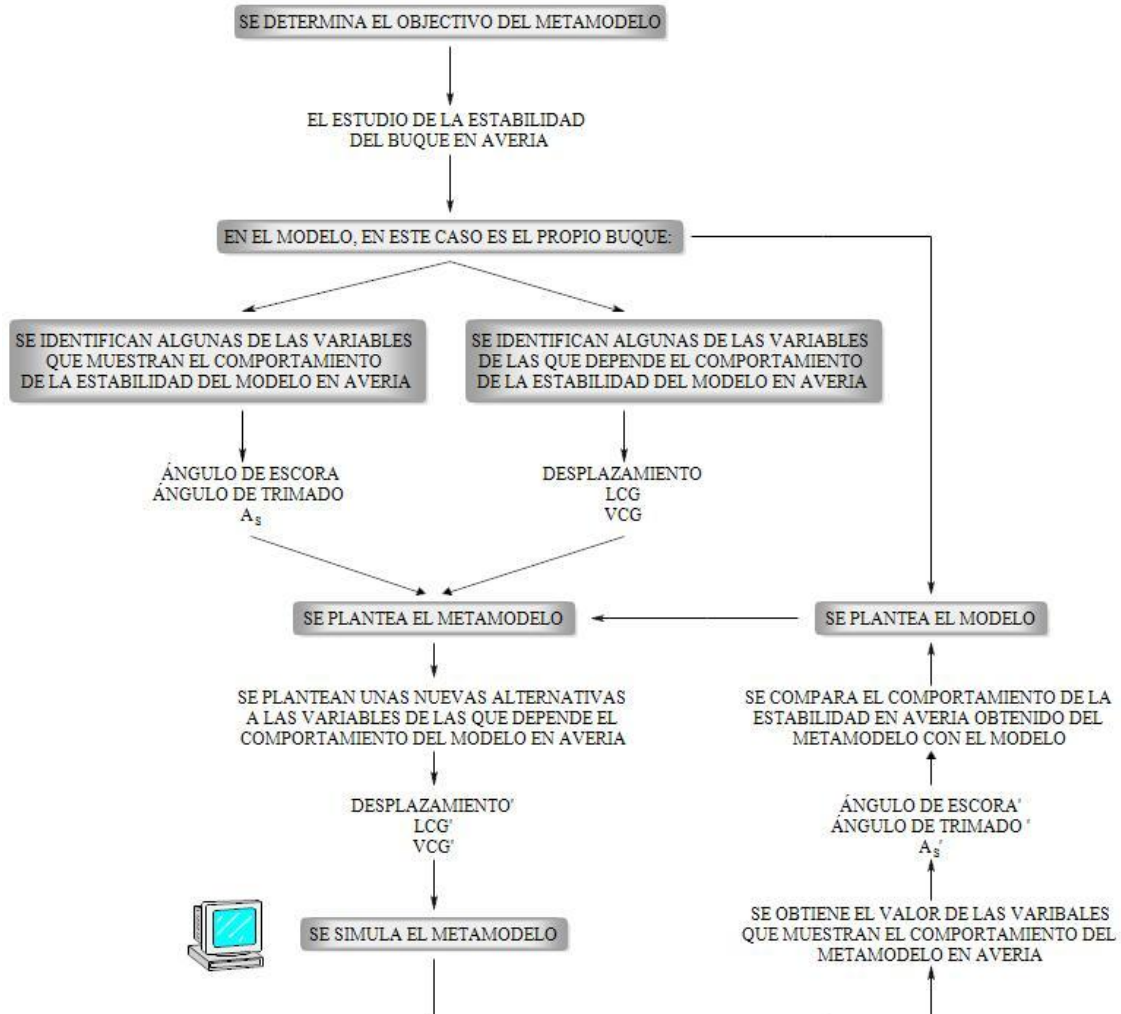
4.- Se obtiene el comportamiento del Metamodelo $(Y'_1, Y'_2, Y'_3, \dots)$.

5.- Se compara el comportamiento del Metamodelo con el del Modelo, y se repetirá el proceso las veces que se requiera.

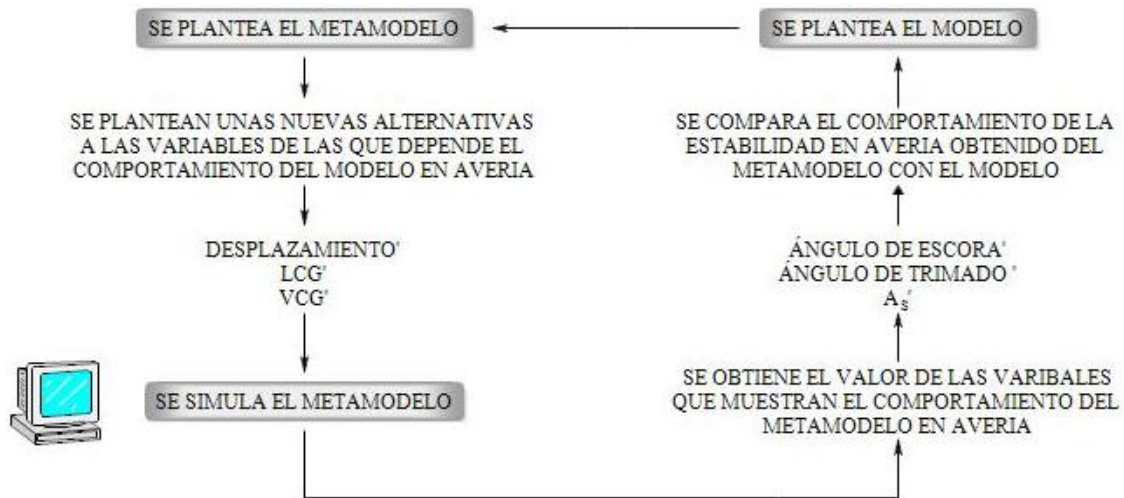
La meta más importante de los Metamodelos, es obtener una mejor comprensión de los fenómenos que afectan a los Modelos, dando con ello la posibilidad de optimizarlos.

3.- Metodología del Metamodelo.

A continuación se aplicará el concepto genérico de Metamodelo expuesto en el anterior apartado a la estabilidad del buque en avería y se planteara la metodología a seguir, para facilitar su comprensión se planteara el siguiente esquema:



El objetivo de este trabajo es el planteamiento de un sistema de análisis de la estabilidad del buque basado en Metamodelos, basándose en el esquema anterior y centrándose en esta parte:

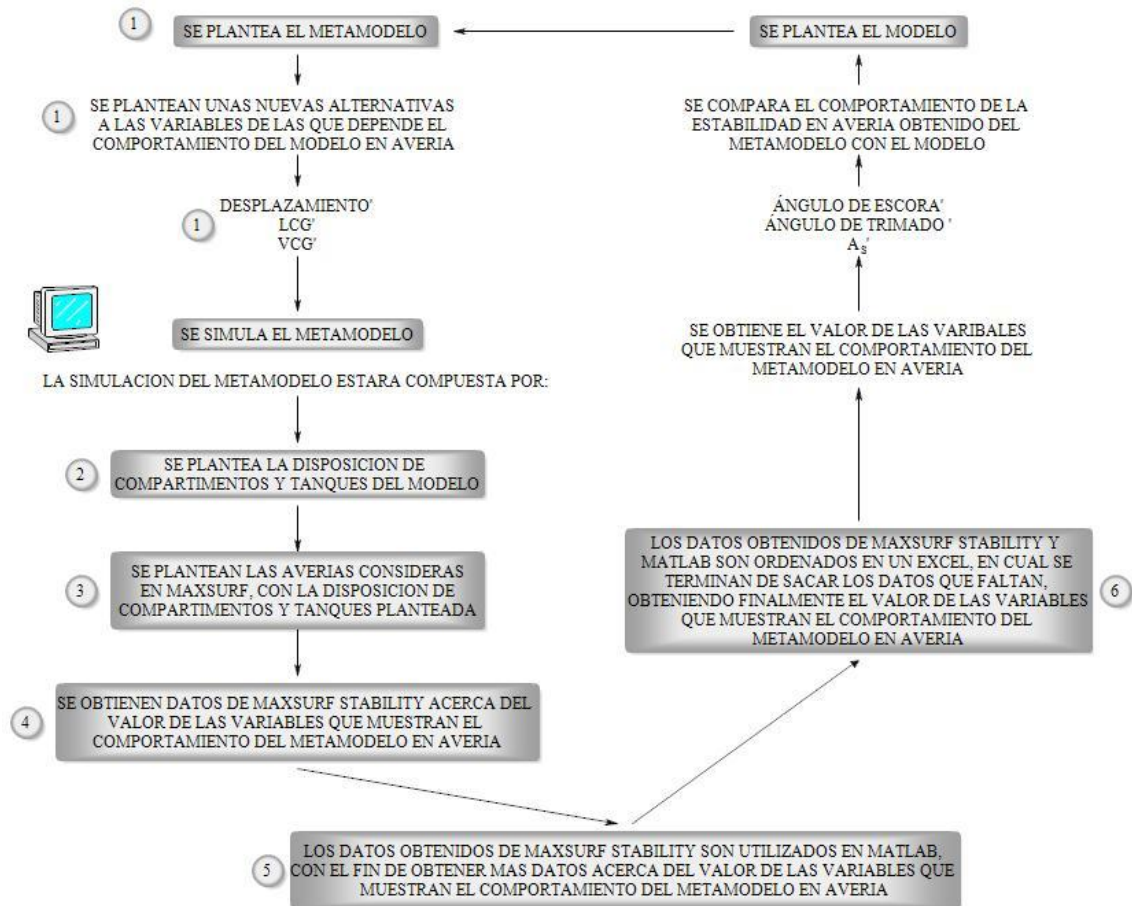


El planteamiento y obtención de dicho sistema presenta una serie de complejidades que serán tratadas en apartados posteriores.

La meta más importante de los Metamodelos en este trabajo, es obtener una mejor comprensión de las variables que afectan a la estabilidad del buque en avería, dando con ello la posibilidad de optimizarlas.

4.- Implementación del Metamodelo.

Teniendo en cuenta los apartado 2 y 3, procedemos a plantear el sistema para el análisis de la estabilidad del buque en avería mediante el uso de Metamodelos, para facilitar su comprensión se planteara el siguiente esquema:



1.- Se plantea el Metamodelo, construyendo las diferentes combinaciones de Desplazamiento, LCG y VCG que lo compondrán.

2.- Se plantea la lista de tanques y compartimentos del Modelo, dicha lista será compatible con Maxsurf Stability, una vez creada será introducida en Maxsurf Stability.

3.- Se plantean las averías a considerar en Maxsurf Stability, indicando su extensión, su profundidad y su altura.

4.- Se procede a obtener datos de Maxsurf Stability, con el objetivo de poder trabajar infinidad de combinaciones, se planteó una macro que introduce individualmente los valores de Desplazamiento, LCG y VCG de cada combinación y extrae individualmente de Maxsurf Stability los siguientes datos para cada combinación:

- El ángulo de trimado.
- El ángulo de escora.
- Los valores de la curva GZ para los ángulos:
0°,10°,20°,30°,40°,50°,60°,70°,80°,90°,100°,110°,120°.

Dicha macro se encuentra en el ANEXO Apartado 2.

5.- Se procede a obtener datos de Matlab, con el objetivo de poder trabajar con infinidad de combinaciones, se planteó un script que analiza los 13 valores de GZ para los 13 ángulos planteados de cada combinación, el script traza un polinomio de 4° grado por esos trece puntos, de tal manera que nos permite generar los puntos que componen la curva que genera dicho polinomio, de tal manera que obtenemos el valor de GZ a intervalos de 0.1°. Dicho Scripts está incluido en el ANEXO Apartado 3.

6.- Con los datos obtenidos de Maxsurf y Matlab, y con ayuda de unas formulas en el Excel, obtenemos para cada combinación, los siguientes valores:

- El valor del GZ Máximo.
- El valor ángulo para el GZ Máximo.
- Los puntos de corte de la Curva GZ con el eje X: Θ_e y Θ_v .

Teniendo en cuenta los datos obtenidos en el Excel que se indica en el párrafo anterior y los datos requeridos a mayores por el Convenio SOLAS 2009, se obtendrá para combinación:

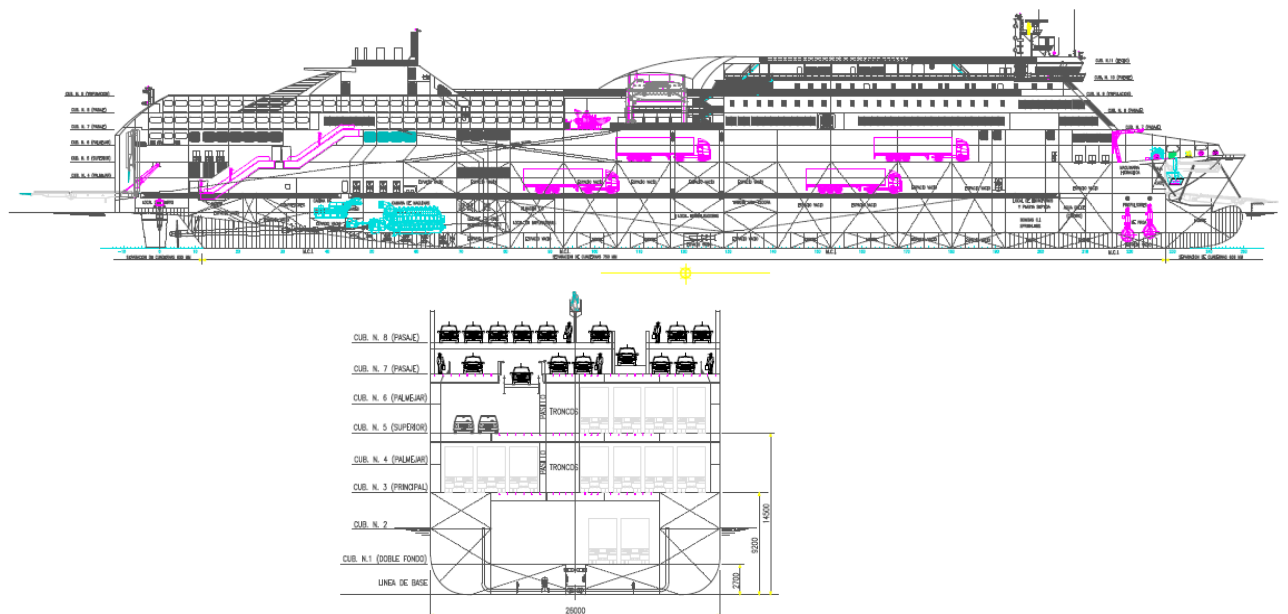
- S_f (probabilidad de que se conserve la flotabilidad en la etapa final de equilibrio de inundación).
- S_m (probabilidad de que se conserve la flotabilidad al experimentarse los momentos de escora).
- p (probabilidad de inundarse el compartimento o compartimentos considerados).
- As_i (Índice Parcial de Compartimentado para cada combinación).

El proceso planteado en estos 6 puntos habría que repetirlo para cada una de las averías consideradas en cada combinación.

5.- Ejemplo de la Implementación.

El buque elegido como ejemplo, es un ferry con una capacidad para 900 pasajeros, 36 tripulantes y 2235 metros lineales para carga rodada, distribuidos en 5 cubiertas, se escogió este tipo de buque por ser un buque de pasaje que posee cubiertas corridas con carga rodada, de tal manera que su estudio en averías resulta más interesante que el de otro tipo de buques, las características principales de este buque son:

Eslora total con apéndices	190.00 m.
Eslora total sin apéndices	187.00 m.
Eslora entre perpendiculares	177.00 m.
Manga de trazado	26.00 m.
Puntal a la cubierta superior	14.50 m.
Puntal a la cubierta principal	9.20 m.
Puntal a la cubierta doble fondo	2.70 n.
Calado de proyecto	6.00 m.
Calado de escantillonado	6.30 m.
Coefficiente de bloque	0.541
Coefficiente prismático	0.551
Coefficiente de la maestra	0.983
Coefficiente afinamiento línea de agua	0.792
Desplazamiento *	16559.00 ton
LCG	82.20 m.
VCG	10.50 m.
* Dicho desplazamiento es el correspondiente al calado de proyecto, por lo que no se justificara su valor.	



Para llevar a cabo este ejemplo se seguirá cada uno de los 6 puntos planteados en el apartado 4:

1.- Se plantea el Metamodelo, construyendo las diferentes combinaciones de Desplazamiento, LCG y VCG que lo compondrán.

El Desplazamiento se variará de un 25% a -25%:

Displacement (Kg)	16559000,00
0,25	20698750,00
0,20	19870800,00
0,15	19042850,00
0,10	18214900,00
0,05	17386950,00
0,00	16559000,00
-0,05	15731050,00
-0,10	14903100,00
-0,15	14075150,00
-0,20	13247200,00
-0,25	12419250,00

El LCG se variará de un 25% a -25%:

LCG (m)	82,20
0,25	102,75
0,20	98,64
0,15	94,53
0,10	90,42
0,05	86,31
0,00	82,20
-0,05	78,09
-0,10	73,98
-0,15	69,87
-0,20	65,76
-0,25	61,65

El VCG se variará un 50%, obteniéndose

VCG (m)	10,50
0,50	15,75
0,45	15,23
0,40	14,70
0,35	14,18
0,30	13,65
0,25	13,13
0,20	12,60
0,15	12,08
0,10	11,55
0,05	11,03
0,00	10,50

Se plantearán 242 combinaciones, las cuales son obtenidos de las diferentes combinaciones de Desplazamientos, LCG y VCG planteadas anteriormente, obteniéndose:

Nº	Displacement	LCG	TCG	VCG
1	20698750,00	102,75	0,00	10,50
2	19870800,00	102,75	0,00	10,50
3	19042850,00	102,75	0,00	10,50
4	18214900,00	102,75	0,00	10,50
5	17386950,00	102,75	0,00	10,50
6	16559000,00	102,75	0,00	10,50
7	15731050,00	102,75	0,00	10,50
8	14903100,00	102,75	0,00	10,50
9	14075150,00	102,75	0,00	10,50
10	13247200,00	102,75	0,00	10,50
11	12419250,00	102,75	0,00	10,50
12	20698750,00	98,64	0,00	10,50
13	19870800,00	98,64	0,00	10,50
14	19042850,00	98,64	0,00	10,50
15	18214900,00	98,64	0,00	10,50
16	17386950,00	98,64	0,00	10,50
17	16559000,00	98,64	0,00	10,50
18	15731050,00	98,64	0,00	10,50
19	14903100,00	98,64	0,00	10,50
20	14075150,00	98,64	0,00	10,50
21	13247200,00	98,64	0,00	10,50
22	12419250,00	98,64	0,00	10,50
23	20698750,00	94,53	0,00	10,50
24	19870800,00	94,53	0,00	10,50
25	19042850,00	94,53	0,00	10,50
26	18214900,00	94,53	0,00	10,50
27	17386950,00	94,53	0,00	10,50
28	16559000,00	94,53	0,00	10,50
29	15731050,00	94,53	0,00	10,50
30	14903100,00	94,53	0,00	10,50
31	14075150,00	94,53	0,00	10,50
32	13247200,00	94,53	0,00	10,50
33	12419250,00	94,53	0,00	10,50
34	20698750,00	90,42	0,00	10,50
35	19870800,00	90,42	0,00	10,50
36	19042850,00	90,42	0,00	10,50
37	18214900,00	90,42	0,00	10,50
38	17386950,00	90,42	0,00	10,50
39	16559000,00	90,42	0,00	10,50
40	15731050,00	90,42	0,00	10,50
41	14903100,00	90,42	0,00	10,50
42	14075150,00	90,42	0,00	10,50
43	13247200,00	90,42	0,00	10,50
44	12419250,00	90,42	0,00	10,50
45	20698750,00	86,31	0,00	10,50
46	19870800,00	86,31	0,00	10,50
47	19042850,00	86,31	0,00	10,50
48	18214900,00	86,31	0,00	10,50
49	17386950,00	86,31	0,00	10,50
50	16559000,00	86,31	0,00	10,50
51	15731050,00	86,31	0,00	10,50
52	14903100,00	86,31	0,00	10,50
53	14075150,00	86,31	0,00	10,50
54	13247200,00	86,31	0,00	10,50
55	12419250,00	86,31	0,00	10,50
56	20698750,00	82,20	0,00	10,50
57	19870800,00	82,20	0,00	10,50
58	19042850,00	82,20	0,00	10,50
59	18214900,00	82,20	0,00	10,50
60	17386950,00	82,20	0,00	10,50

Nº	Displacement	LCG	TCG	VCG
61	16559000,00	82,20	0,00	10,50
62	15731050,00	82,20	0,00	10,50
63	14903100,00	82,20	0,00	10,50
64	14075150,00	82,20	0,00	10,50
65	13247200,00	82,20	0,00	10,50
66	12419250,00	82,20	0,00	10,50
67	20698750,00	78,09	0,00	10,50
68	19870800,00	78,09	0,00	10,50
69	19042850,00	78,09	0,00	10,50
70	18214900,00	78,09	0,00	10,50
71	17386950,00	78,09	0,00	10,50
72	16559000,00	78,09	0,00	10,50
73	15731050,00	78,09	0,00	10,50
74	14903100,00	78,09	0,00	10,50
75	14075150,00	78,09	0,00	10,50
76	13247200,00	78,09	0,00	10,50
77	12419250,00	78,09	0,00	10,50
78	20698750,00	73,98	0,00	10,50
79	19870800,00	73,98	0,00	10,50
80	19042850,00	73,98	0,00	10,50
81	18214900,00	73,98	0,00	10,50
82	17386950,00	73,98	0,00	10,50
83	16559000,00	73,98	0,00	10,50
84	15731050,00	73,98	0,00	10,50
85	14903100,00	73,98	0,00	10,50
86	14075150,00	73,98	0,00	10,50
87	13247200,00	73,98	0,00	10,50
88	12419250,00	73,98	0,00	10,50
89	20698750,00	69,87	0,00	10,50
90	19870800,00	69,87	0,00	10,50
91	19042850,00	69,87	0,00	10,50
92	18214900,00	69,87	0,00	10,50
93	17386950,00	69,87	0,00	10,50
94	16559000,00	69,87	0,00	10,50
95	15731050,00	69,87	0,00	10,50
96	14903100,00	69,87	0,00	10,50
97	14075150,00	69,87	0,00	10,50
98	13247200,00	69,87	0,00	10,50
99	12419250,00	69,87	0,00	10,50
100	20698750,00	65,76	0,00	10,50
101	19870800,00	65,76	0,00	10,50
102	19042850,00	65,76	0,00	10,50
103	18214900,00	65,76	0,00	10,50
104	17386950,00	65,76	0,00	10,50
105	16559000,00	65,76	0,00	10,50
106	15731050,00	65,76	0,00	10,50
107	14903100,00	65,76	0,00	10,50
108	14075150,00	65,76	0,00	10,50
109	13247200,00	65,76	0,00	10,50
110	12419250,00	65,76	0,00	10,50
111	20698750,00	61,65	0,00	10,50
112	19870800,00	61,65	0,00	10,50
113	19042850,00	61,65	0,00	10,50
114	18214900,00	61,65	0,00	10,50
115	17386950,00	61,65	0,00	10,50
116	16559000,00	61,65	0,00	10,50
117	15731050,00	61,65	0,00	10,50
118	14903100,00	61,65	0,00	10,50
119	14075150,00	61,65	0,00	10,50
120	13247200,00	61,65	0,00	10,50

N°	Displacement	LCG	TCG	VCG
121	12419250,00	61,65	0,00	10,50
122	20698750,00	82,20	0,00	15,75
123	19870800,00	82,20	0,00	15,75
124	19042850,00	82,20	0,00	15,75
125	18214900,00	82,20	0,00	15,75
126	17386950,00	82,20	0,00	15,75
127	16559000,00	82,20	0,00	15,75
128	15731050,00	82,20	0,00	15,75
129	14903100,00	82,20	0,00	15,75
130	14075150,00	82,20	0,00	15,75
131	13247200,00	82,20	0,00	15,75
132	12419250,00	82,20	0,00	15,75
133	20698750,00	82,20	0,00	15,23
134	19870800,00	82,20	0,00	15,23
135	19042850,00	82,20	0,00	15,23
136	18214900,00	82,20	0,00	15,23
137	17386950,00	82,20	0,00	15,23
138	16559000,00	82,20	0,00	15,23
139	15731050,00	82,20	0,00	15,23
140	14903100,00	82,20	0,00	15,23
141	14075150,00	82,20	0,00	15,23
142	13247200,00	82,20	0,00	15,23
143	12419250,00	82,20	0,00	15,23
144	20698750,00	82,20	0,00	14,70
145	19870800,00	82,20	0,00	14,70
146	19042850,00	82,20	0,00	14,70
147	18214900,00	82,20	0,00	14,70
148	17386950,00	82,20	0,00	14,70
149	16559000,00	82,20	0,00	14,70
150	15731050,00	82,20	0,00	14,70
151	14903100,00	82,20	0,00	14,70
152	14075150,00	82,20	0,00	14,70
153	13247200,00	82,20	0,00	14,70
154	12419250,00	82,20	0,00	14,70
155	20698750,00	82,20	0,00	14,18
156	19870800,00	82,20	0,00	14,18
157	19042850,00	82,20	0,00	14,18
158	18214900,00	82,20	0,00	14,18
159	17386950,00	82,20	0,00	14,18
160	16559000,00	82,20	0,00	14,18
161	15731050,00	82,20	0,00	14,18
162	14903100,00	82,20	0,00	14,18
163	14075150,00	82,20	0,00	14,18
164	13247200,00	82,20	0,00	14,18
165	12419250,00	82,20	0,00	14,18
166	20698750,00	82,20	0,00	13,65
167	19870800,00	82,20	0,00	13,65
168	19042850,00	82,20	0,00	13,65
169	18214900,00	82,20	0,00	13,65
170	17386950,00	82,20	0,00	13,65
171	16559000,00	82,20	0,00	13,65
172	15731050,00	82,20	0,00	13,65
173	14903100,00	82,20	0,00	13,65
174	14075150,00	82,20	0,00	13,65
175	13247200,00	82,20	0,00	13,65
176	12419250,00	82,20	0,00	13,65
177	20698750,00	82,20	0,00	13,13
178	19870800,00	82,20	0,00	13,13
179	19042850,00	82,20	0,00	13,13
180	18214900,00	82,20	0,00	13,13

Nº	Displacement	LCG	TCG	VCG
181	17386950,00	82,20	0,00	13,13
182	16559000,00	82,20	0,00	13,13
183	15731050,00	82,20	0,00	13,13
184	14903100,00	82,20	0,00	13,13
185	14075150,00	82,20	0,00	13,13
186	13247200,00	82,20	0,00	13,13
187	12419250,00	82,20	0,00	13,13
188	20698750,00	82,20	0,00	12,60
189	19870800,00	82,20	0,00	12,60
190	19042850,00	82,20	0,00	12,60
191	18214900,00	82,20	0,00	12,60
192	17386950,00	82,20	0,00	12,60
193	16559000,00	82,20	0,00	12,60
194	15731050,00	82,20	0,00	12,60
195	14903100,00	82,20	0,00	12,60
196	14075150,00	82,20	0,00	12,60
197	13247200,00	82,20	0,00	12,60
198	12419250,00	82,20	0,00	12,60
199	20698750,00	82,20	0,00	12,08
200	19870800,00	82,20	0,00	12,08
201	19042850,00	82,20	0,00	12,08
202	18214900,00	82,20	0,00	12,08
203	17386950,00	82,20	0,00	12,08
204	16559000,00	82,20	0,00	12,08
205	15731050,00	82,20	0,00	12,08
206	14903100,00	82,20	0,00	12,08
207	14075150,00	82,20	0,00	12,08
208	13247200,00	82,20	0,00	12,08
209	12419250,00	82,20	0,00	12,08
210	20698750,00	82,20	0,00	11,55
211	19870800,00	82,20	0,00	11,55
212	19042850,00	82,20	0,00	11,55
213	18214900,00	82,20	0,00	11,55
214	17386950,00	82,20	0,00	11,55
215	16559000,00	82,20	0,00	11,55
216	15731050,00	82,20	0,00	11,55
217	14903100,00	82,20	0,00	11,55
218	14075150,00	82,20	0,00	11,55
219	13247200,00	82,20	0,00	11,55
220	12419250,00	82,20	0,00	11,55
221	20698750,00	82,20	0,00	11,03
222	19870800,00	82,20	0,00	11,03
223	19042850,00	82,20	0,00	11,03
224	18214900,00	82,20	0,00	11,03
225	17386950,00	82,20	0,00	11,03
226	16559000,00	82,20	0,00	11,03
227	15731050,00	82,20	0,00	11,03
228	14903100,00	82,20	0,00	11,03
229	14075150,00	82,20	0,00	11,03
230	13247200,00	82,20	0,00	11,03
231	12419250,00	82,20	0,00	11,03
232	20698750,00	82,20	0,00	10,50
233	19870800,00	82,20	0,00	10,50
234	19042850,00	82,20	0,00	10,50
235	18214900,00	82,20	0,00	10,50
236	17386950,00	82,20	0,00	10,50
237	16559000,00	82,20	0,00	10,50
238	15731050,00	82,20	0,00	10,50
239	14903100,00	82,20	0,00	10,50
240	14075150,00	82,20	0,00	10,50
241	13247200,00	82,20	0,00	10,50
242	12419250,00	82,20	0,00	10,50

2.- Se plantea la lista de tanques y compartimentos del Modelo, dicha lista será compatible con Maxsurf Stability, una vez creada será introducida en Maxsurf Stability.

Se plantearan tres modelos:

1º: disposición inicial del buque ejemplo.

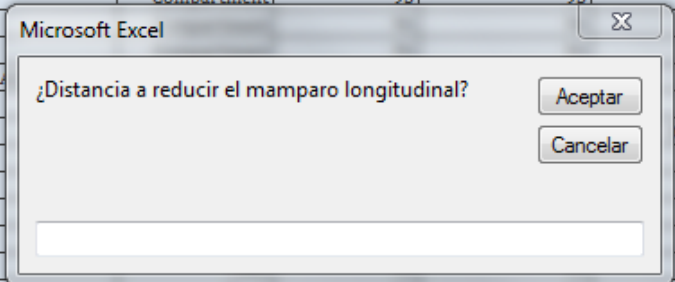
2º: disposición inicial del buque ejemplo con el mamparo longitudinal en B/6.

3º: disposición inicial del buque ejemplo con el mamparo longitudinal en B/7.

Al plantear estos modelos no solo se analiza la estabilidad en avería mediante Metamodelos de la disposición inicial, sino que también se analiza cómo afecta a la estabilidad en avería la variación de la posición del mamparo longitudinal.

Con el objetivo de agilizar la creación de las listas de tanques y compartimentos se procedió a plantear una macro capaz de generar dicha listas, tanto para la disposición inicial como para la variación de la posición de los mamparos longitudinales del buque ejemplo, dicha macro también estaría planteada para la variación de los mamparos transversales del buque ejemplo, en caso de querer utilizarla para la variación de los mamparos transversales sería necesario ampliar el código que contiene. Esta macro se encuentra en el ANEXO Apartado 1.

	A	B	C	D	E
1	Generar Excel	Restablecer Excel	Guardar Excel. Ruta: C:/Room Definition		
2	Name	Type	Instac. Perm. %	Damaged Perm. %	Specific gravity
3	ESPACIO VACIO	Compartment	95	95	
4	ESPACIO VACIO	Compartment	95	95	
5	ESPACIO VACIO				
6	ESPACIO VACIO				
7	FONDO CAMARA DE MAQUINA				
8	ACEITE MOTOR				0,92
9	DERR. BAND. F.O.				0,9443
10	DERR. BAND. ACEITE				0,92
11	AGUAS ACEITOSAS				0,92
12	ALMACEN ACEITE				0,92
13	ACEITE SUCIO				0,92
14	AGUAS CILINDRICAS				1
15	ACEITE MOTOR	Tank	95	95	0,92
16	ESPACIO VACIO	Compartment	95	95	
17	LODOS	Tank	95	95	0,913
18	ESPACIO VACIO	Compartment	95	95	



(Imagen correspondiente al Excel con la macro planteada en el párrafo anterior)

En el ANEXO Apartado 7, se incorporan las listas de compartimentos y tanques pertenecientes a la:

Disposición inicial del buque ejemplo.

Disposición con el mamparo longitudinal en B/6 del buque ejemplo.

Disposición con el mamparo longitudinal en B/7 del buque ejemplo.

3.- Se plantean las averías a considerar en Maxsurf Stability, indicando su extensión, su profundidad y su altura.

Se consideraran 74 averías, las cuales estarán agrupadas en cuatro grupos:

1° Grupo: estará compuesto por 19 averías:

Extensión: 1 zona.

Profundidad: hasta el mamparo longitudinal.

Altura: hasta la cubierta superior (sin incluir).

2° Grupo: estará compuesto por 19 averías:

Extensión: 1 zona.

Profundidad: traspasará el mamparo longitudinal.

Altura: hasta la cubierta superior (sin incluir).

3° Grupo: estará compuesto por 18 averías:

Extensión: 2 zonas.

Profundidad: hasta el mamparo longitudinal.

Altura: hasta la cubierta superior (sin incluir).

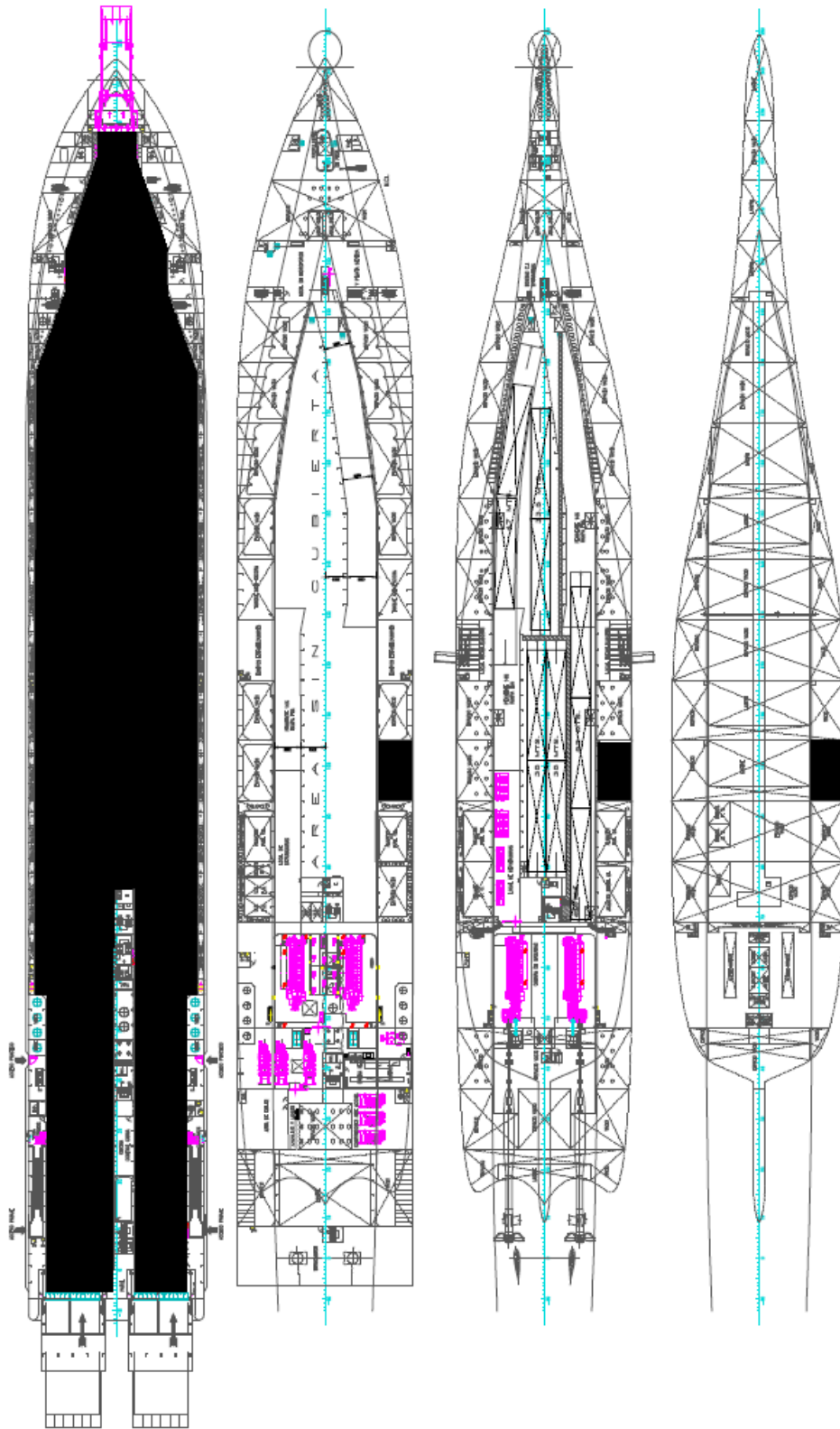
4° Grupo: estará compuesto por 18 averías:

Extensión: 2 zonas.

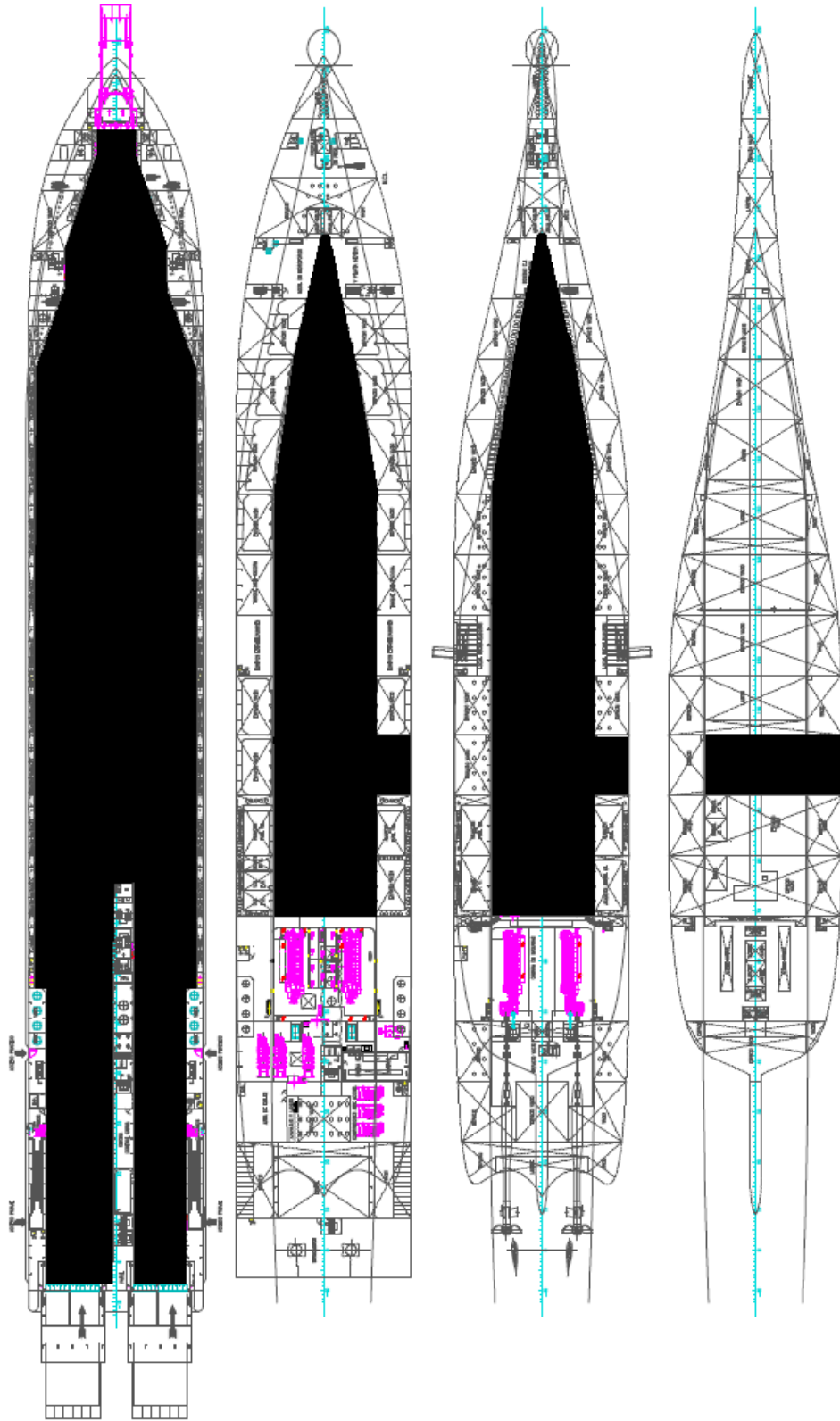
Profundidad: traspasará el mamparo longitudinal.

Altura: hasta la cubierta superior (sin incluir).

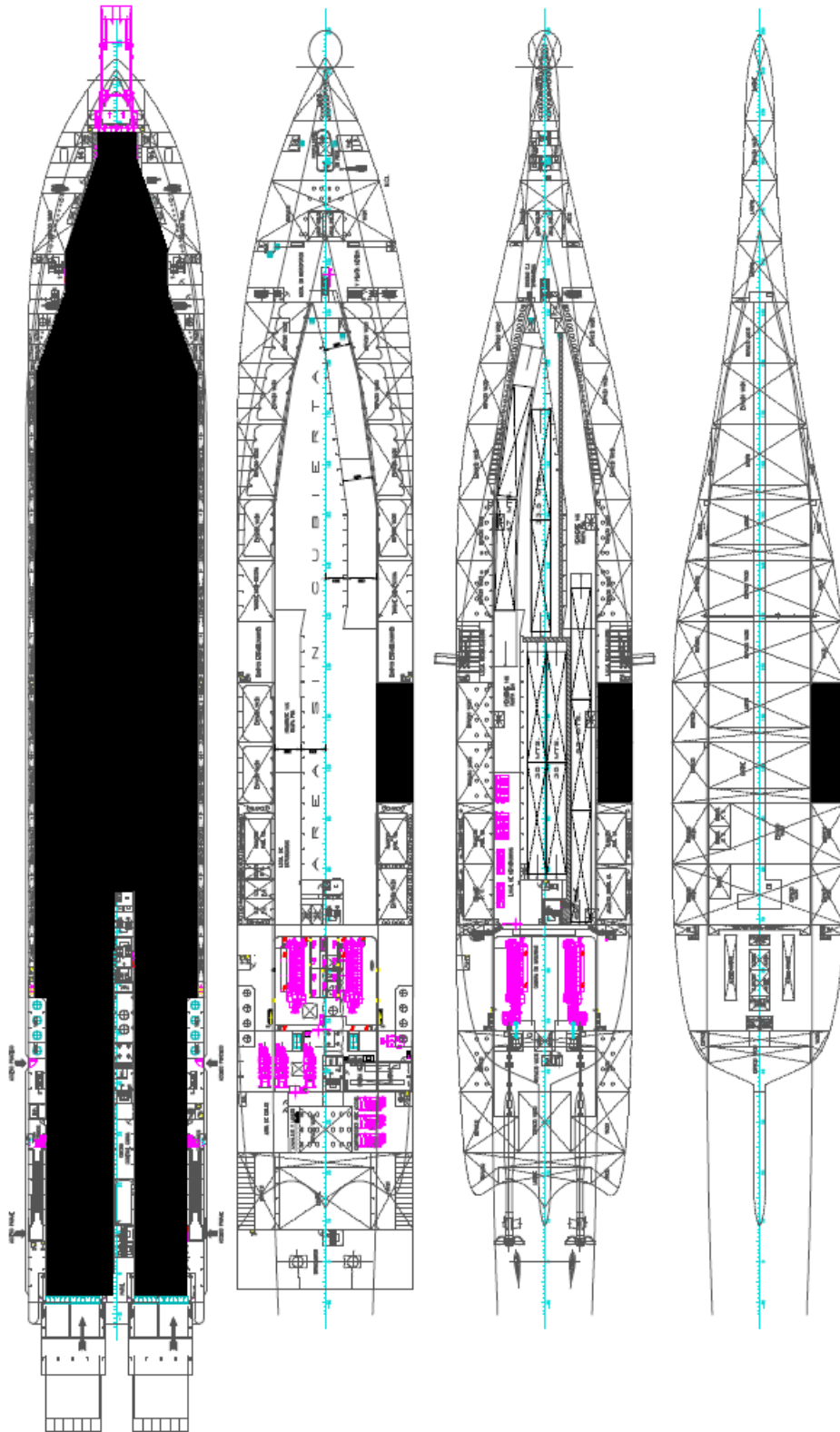
Ejemplo 1º Grupo:



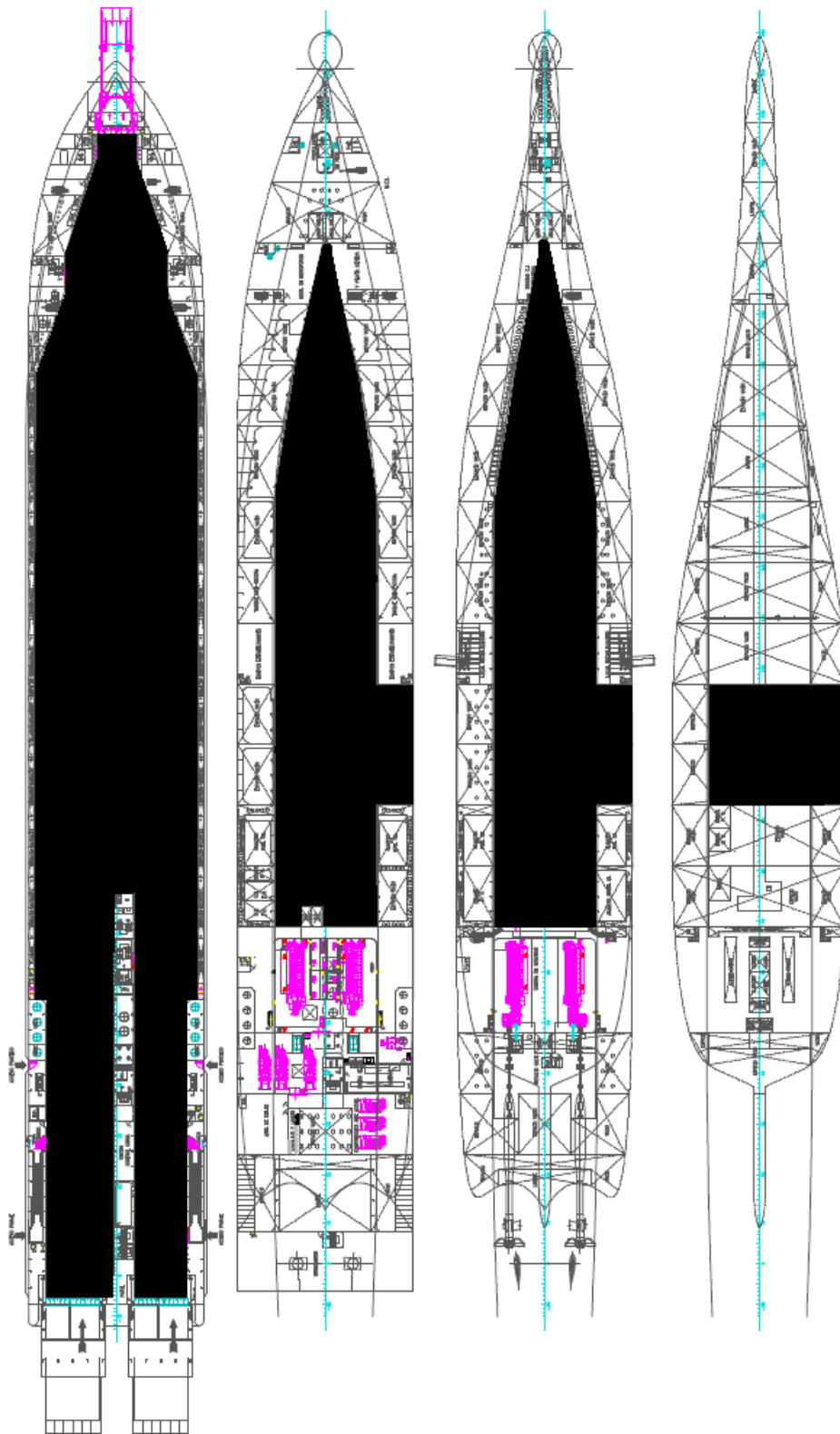
Ejemplo 2º Grupo:



Ejemplo 3º Grupo:



Ejemplo 4º Grupo:



4.- Se procede a obtener datos de Maxsurf Stability, con el objetivo de poder trabajar infinidad de combinaciones, se planteó una macro que introduce individualmente los valores de Desplazamiento, LCG y VCG de cada combinación y extrae individualmente de Maxsurf Stability los siguientes datos para cada combinación:

- El ángulo de trimado.
- El ángulo de escora.
- Los valores de la curva GZ para los ángulos:
0°,10°,20°,30°,40°,50°,60°,70°,80°,90°,100°,110°,120°.

Dicha macro se encuentra en el ANEXO Apartado 2.

Θc	Θt	Θ GZ Max	GZ Max	0	10	20	30	40	50	60	70	80	90	100	110	120	Θc	Θv	Sf	Sm	p	r	v	As ₁	
0.00	-5.36	57.90	1.30	0.00	0.11	0.39	0.81	1.08	1.24	1.30	1.19	0.93	0.59	0.25	-0.01	-0.14	2.90	108.20	1.00	1.00	0.05	1.00	1.00	0.05	
0.00	-5.21	58.40	1.30	0.00	0.10	0.39	0.81	1.07	1.23	1.29	1.20	0.96	0.63	0.30	0.04	-0.10	2.90	110.60	1.00	1.00	0.05	1.00	1.00	0.05	
0.00	-4.95	58.90	1.29	0.00	0.11	0.41	0.80	1.06	1.21	1.28	1.20	0.98	0.67	0.36	0.10	-0.06	2.40	114.10	1.00	1.00	0.05	1.00	1.00	0.05	
0.00	-4.34	59.50	1.27	0.00	0.14	0.44	0.80	1.04	1.19	1.27	1.21	1.01	0.72	0.42	0.16	-0.01	1.40	119.90	1.00	1.00	0.05	1.00	1.00	0.05	
0.00	-3.79	60.00	1.25	0.00	0.24	0.48	0.80	1.03	1.16	1.25	1.21	1.04	0.78	0.50	0.24	0.04	0.00	120.00	1.00	1.00	0.05	1.00	1.00	0.05	
0.00	-3.44	60.70	1.22	0.00	0.38	0.55	0.81	1.00	1.13	1.23	1.22	1.08	0.85	0.58	0.31	0.10	0.00	120.00	1.00	1.00	0.05	1.00	1.00	0.05	
0.00	3.31	61.00	1.10	0.00	0.51	0.83	0.83	0.80	1.00	1.00	1.00	1.13	1.13	0.93	0.67	0.30	0.14	0.00	120.00	1.00	1.00	0.05	1.00	1.00	0.05

Ver ANEXO Apartados 4-5-6

5.- Se procede a obtener datos de Matlab, con el objetivo de poder trabajar con infinidad de combinaciones, se planteó un script que analiza los 13 valores de GZ para los 13 ángulos planteados de cada combinación, el script traza un polinomio de 4º grado por esos trece puntos, de tal manera que nos permite generar los puntos que componen la curva que genera dicho polinomio, de tal manera que obtenemos el valor de GZ a intervalos de 0.1º. Dicho Scripts está incluido en el ANEXO Apartado 3.

6.- Con los datos obtenidos de Maxsurf y Matlab, y con ayuda de unas formulas en el Excel, obtenemos para cada combinación, los siguientes valores:

- El valor del GZ Máximo.
- El valor ángulo para el GZ Máximo.
- Los puntos de corte de la Curva GZ con el eje X: Θ_e y Θ_v .

Θ_e	Θ_v	Θ GZ Max	GZ Max	0	10	20	30	40	50	60	70	80	90	100	110	120	Θ_e	Θ_v	Sf	Sm	p	r	v	As ₁
0.00	-5.36	57,90	1,30	0,00	0,11	0,39	0,81	1,08	1,24	1,30	1,19	0,93	0,59	0,25	-0,01	-0,14	2,90	108,20	1,00	1,00	0,05	1,00	1,00	0,05
0.00	-5.21	58,40	1,30	0,00	0,10	0,39	0,81	1,07	1,23	1,29	1,20	0,96	0,63	0,30	0,04	-0,10	2,90	110,60	1,00	1,00	0,05	1,00	1,00	0,05
0.00	-4.95	58,90	1,29	0,00	0,11	0,41	0,80	1,06	1,21	1,28	1,20	0,98	0,67	0,36	0,10	-0,06	2,40	114,10	1,00	1,00	0,05	1,00	1,00	0,05
0.00	-4.34	59,50	1,27	0,00	0,14	0,44	0,80	1,04	1,19	1,27	1,21	1,01	0,72	0,42	0,16	-0,01	1,40	119,90	1,00	1,00	0,05	1,00	1,00	0,05
0.00	-3.79	60,00	1,25	0,00	0,24	0,48	0,80	1,03	1,16	1,25	1,21	1,04	0,78	0,50	0,24	0,04	0,00	120,00	1,00	1,00	0,05	1,00	1,00	0,05
0.00	-3,44	60,70	1,22	0,00	0,38	0,55	0,81	1,00	1,13	1,23	1,22	1,08	0,85	0,58	0,31	0,10	0,00	120,00	1,00	1,00	0,05	1,00	1,00	0,05

Ver ANEXO Apartados 4-5-6

Teniendo en cuenta los datos obtenidos en el Excel que se indica en el párrafo anterior y los datos requeridos a mayores por el Convenio SOLAS 2009, se obtendrá para combinación:

- Sf (probabilidad de que se conserve la flotabilidad en la etapa final de equilibrio de inundación)
- Sm (probabilidad de que se conserve la flotabilidad al experimentarse los momentos de escora).

M_{pasaje} es el momento de escora máximo supuesto debido al movimiento de los pasajeros; se calcula del modo siguiente:

$$M_{\text{pasaje}} = (0,075 \cdot N_p) \cdot (0,45 \cdot B) = 789.75 \text{ tm.}$$

N_p es el número máximo de pasajeros permitido a bordo en la condición de servicio correspondiente al calado máximo de compartimentado en cuestión. 900 pasajeros
B es la manga del buque. 26 m

M_{viento} es la máxima fuerza supuesta debida al viento que actúa en una situación de avería. Debido a los diferentes modelos, tendremos diferentes calados, para simplificar cálculos se tomara el momento para el calado del buque ejemplo:

$$M_{\text{viento}} = (P \cdot A \cdot Z) / 9806 = 577.11 \text{ tm.}$$

$$P = 120 \text{ N/m}^2.$$

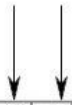
A = superficie lateral proyectada por encima de la línea de flotación. 3930 m².

Z = distancia desde el centro de la zona lateral proyectada por encima de la línea de flotación hasta T/2. 12 m.

T = calado del buque. 6 m.


$M_{Embarc.superv.}$ es el momento máximo de escora supuesto debido a la puesta a flote, por una banda, de todas las embarcaciones de supervivencia de pescante completamente cargadas. En esta fase no se tendrá en cuenta.

El momento que se considerara para el cálculo de S_m será el mayor de los dos momentos planteados anteriormente.



Θ_e	Θ_t	Θ GZ Max	GZ Max	0	10	20	30	40	50	60	70	80	90	100	110	120	Θ_e	Θ_v	S_f	S_m	p	r	v	As_1
0,00	-5,36	57,90	1,30	0,00	0,11	0,39	0,81	1,08	1,24	1,30	1,19	0,93	0,59	0,25	-0,01	-0,14	2,90	108,20	1,00	1,00	0,05	1,00	1,00	0,05
0,00	-5,21	58,40	1,30	0,00	0,10	0,39	0,81	1,07	1,23	1,29	1,20	0,96	0,63	0,30	0,04	-0,10	2,90	110,60	1,00	1,00	0,05	1,00	1,00	0,05
0,00	-4,95	58,90	1,29	0,00	0,11	0,41	0,80	1,06	1,21	1,28	1,20	0,98	0,67	0,36	0,10	-0,06	2,40	114,10	1,00	1,00	0,05	1,00	1,00	0,05
0,00	-4,34	59,50	1,27	0,00	0,14	0,44	0,80	1,04	1,19	1,27	1,21	1,01	0,72	0,42	0,16	-0,01	1,40	119,90	1,00	1,00	0,05	1,00	1,00	0,05
0,00	-3,79	60,00	1,25	0,00	0,24	0,48	0,80	1,03	1,16	1,25	1,21	1,04	0,78	0,50	0,24	0,04	0,00	120,00	1,00	1,00	0,05	1,00	1,00	0,05
0,00	-3,44	60,70	1,22	0,00	0,38	0,55	0,81	1,00	1,13	1,23	1,22	1,08	0,85	0,58	0,31	0,10	0,00	120,00	1,00	1,00	0,05	1,00	1,00	0,05

Ver ANEXO Apartados 4-5-6




Θ_e	Θ_t	Θ GZ Max	GZ Max	0	10	20	30	40	50	60	70	80	90	100	110	120	Θ_e	Θ_v	Sf	Sm	p	r	v	As _i
0.00	-5.36	57.90	1.30	0.00	0.11	0.39	0.81	1.08	1.24	1.30	1.19	0.93	0.59	0.25	-0.01	-0.14	2.90	108.20	1.00	1.00	0.05	1.00	1.00	0.05
0.00	-5.21	58.40	1.30	0.00	0.10	0.39	0.81	1.07	1.23	1.29	1.20	0.96	0.63	0.30	0.04	-0.10	2.90	110.60	1.00	1.00	0.05	1.00	1.00	0.05
0.00	-4.95	58.90	1.29	0.00	0.11	0.41	0.80	1.06	1.21	1.28	1.20	0.98	0.67	0.36	0.10	-0.06	2.40	114.10	1.00	1.00	0.05	1.00	1.00	0.05
0.00	-4.34	59.50	1.27	0.00	0.14	0.44	0.80	1.04	1.19	1.27	1.21	1.01	0.72	0.42	0.16	-0.01	1.40	119.90	1.00	1.00	0.05	1.00	1.00	0.05
0.00	-3.79	60.00	1.25	0.00	0.24	0.48	0.80	1.03	1.16	1.25	1.21	1.04	0.78	0.50	0.24	0.04	0.00	120.00	1.00	1.00	0.05	1.00	1.00	0.05
0.00	-3.44	60.70	1.22	0.00	0.38	0.55	0.81	1.00	1.13	1.23	1.22	1.08	0.85	0.58	0.31	0.10	0.00	120.00	1.00	1.00	0.05	1.00	1.00	0.05

Ver ANEXO Apartados 4-5-6

- As_i (Índice Parcial de Compartimentado de cada combinación y avería).

$$As_i = \min(Sf, Sm) \cdot p_i$$



Θ_e	Θ_t	Θ GZ Max	GZ Max	0	10	20	30	40	50	60	70	80	90	100	110	120	Θ_e	Θ_v	Sf	Sm	p	r	v	As _i
0.00	-5.36	57.90	1.30	0.00	0.11	0.39	0.81	1.08	1.24	1.30	1.19	0.93	0.59	0.25	-0.01	-0.14	2.90	108.20	1.00	1.00	0.05	1.00	1.00	0.05
0.00	-5.21	58.40	1.30	0.00	0.10	0.39	0.81	1.07	1.23	1.29	1.20	0.96	0.63	0.30	0.04	-0.10	2.90	110.60	1.00	1.00	0.05	1.00	1.00	0.05
0.00	-4.95	58.90	1.29	0.00	0.11	0.41	0.80	1.06	1.21	1.28	1.20	0.98	0.67	0.36	0.10	-0.06	2.40	114.10	1.00	1.00	0.05	1.00	1.00	0.05
0.00	-4.34	59.50	1.27	0.00	0.14	0.44	0.80	1.04	1.19	1.27	1.21	1.01	0.72	0.42	0.16	-0.01	1.40	119.90	1.00	1.00	0.05	1.00	1.00	0.05
0.00	-3.79	60.00	1.25	0.00	0.24	0.48	0.80	1.03	1.16	1.25	1.21	1.04	0.78	0.50	0.24	0.04	0.00	120.00	1.00	1.00	0.05	1.00	1.00	0.05
0.00	-3.44	60.70	1.22	0.00	0.38	0.55	0.81	1.00	1.13	1.23	1.22	1.08	0.85	0.58	0.31	0.10	0.00	120.00	1.00	1.00	0.05	1.00	1.00	0.05

Ver ANEXO Apartados 4-5-6

6.- Resultados.

El resumen de los resultados del análisis de la estabilidad en avería mediante Metamodelos de los tres Modelos planteados anteriormente (Inicial - B/6 - B/7) considerando 74 averías en cada uno de ellos, se exponen a continuación del apartado 9.

A continuación se exponen las gráficas correspondientes a:

Angulo de trimado – Desplazamiento: 16559000 kg – VCG: 10.50 m.

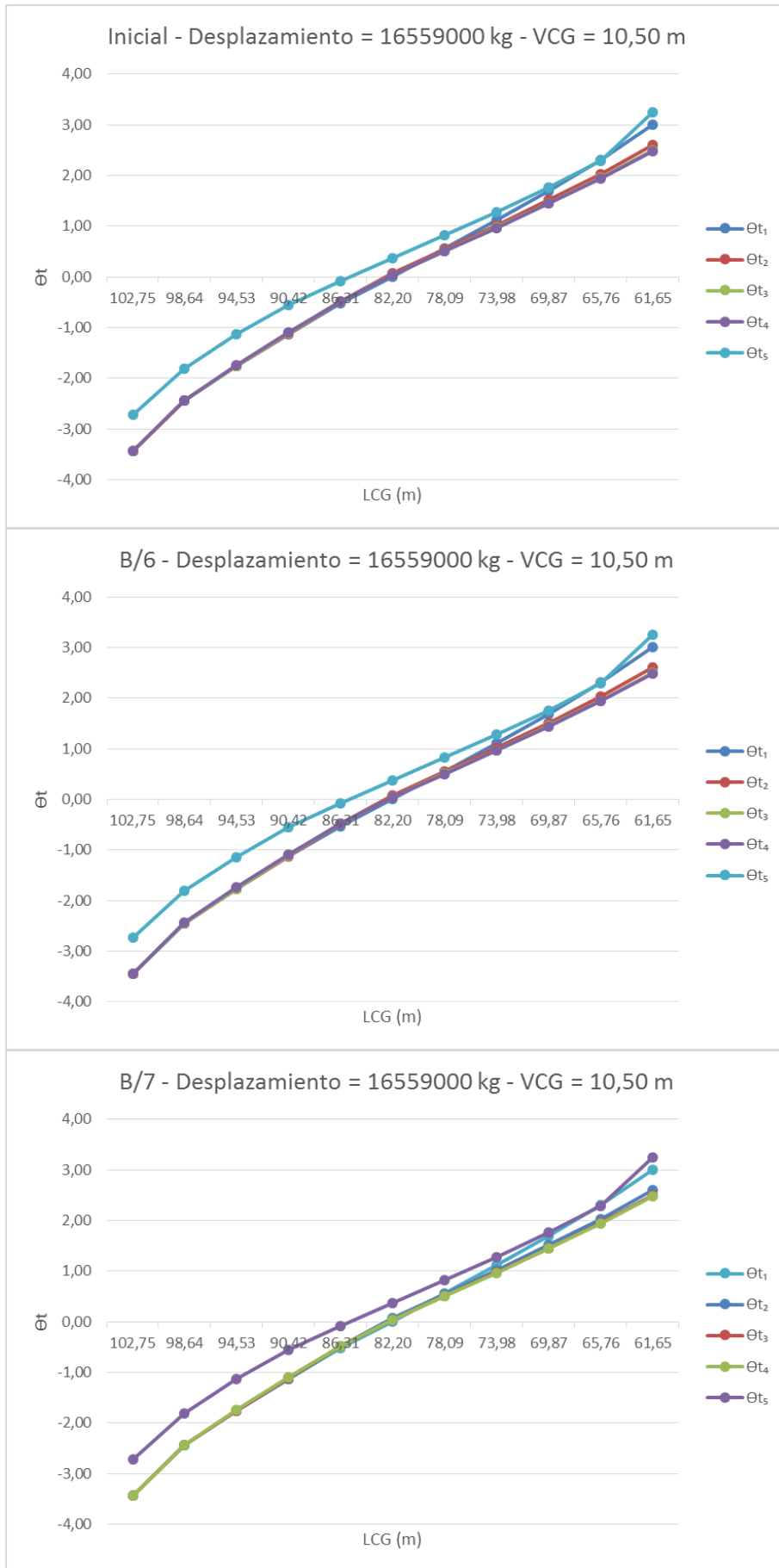
Angulo de trimado – Desplazamiento: 16559000 kg – LCG: 82.20 m.

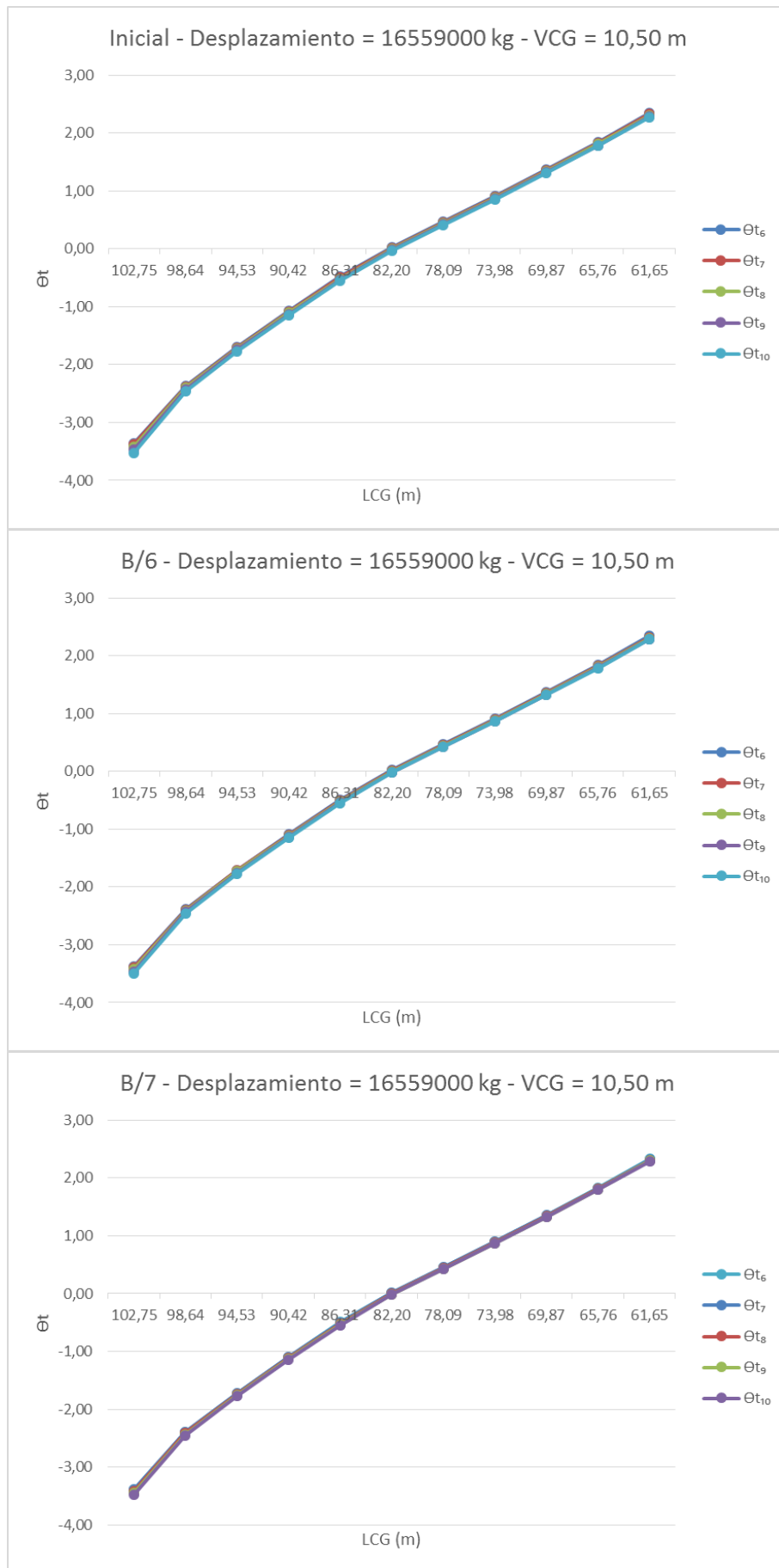
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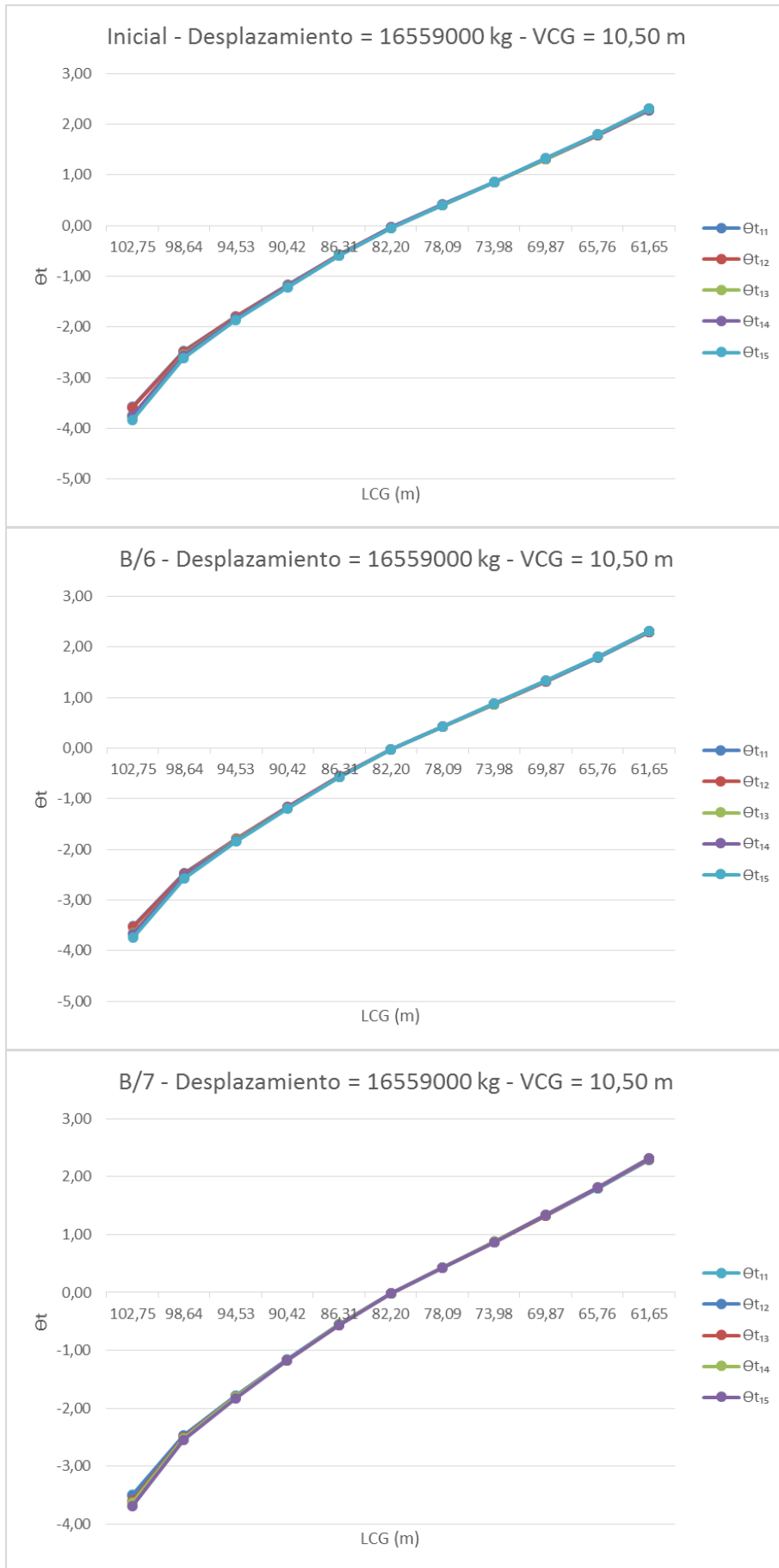
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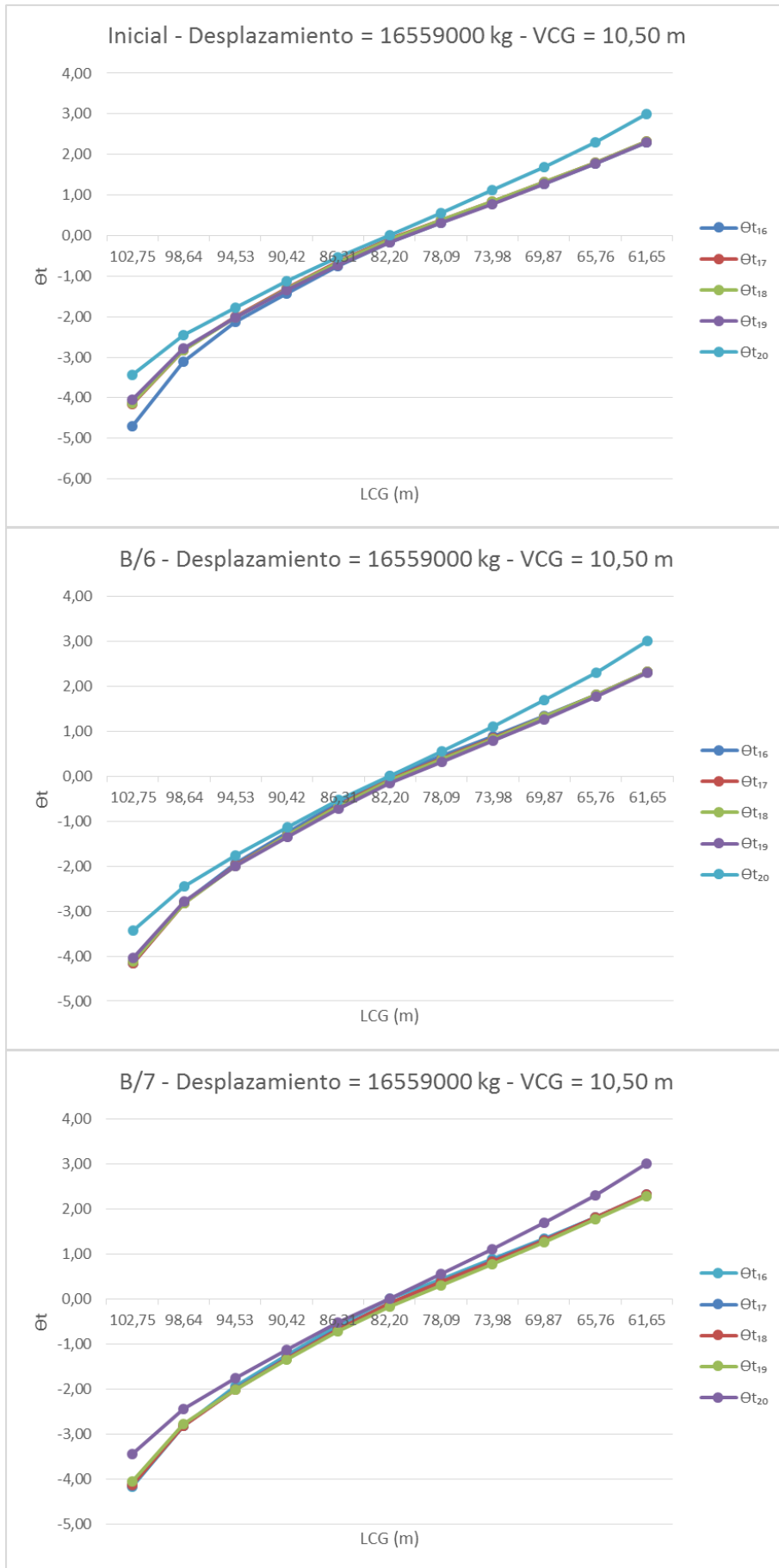
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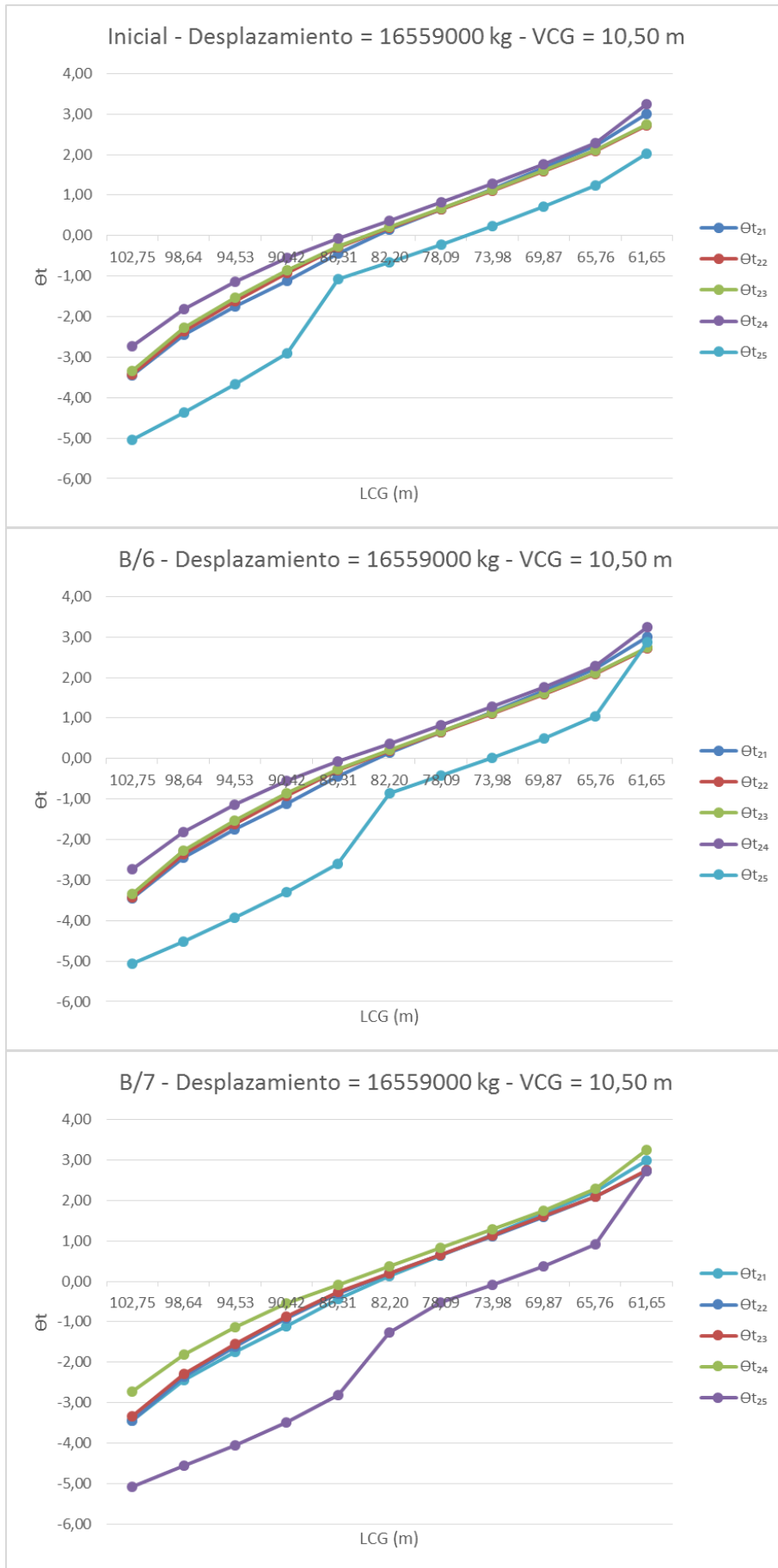
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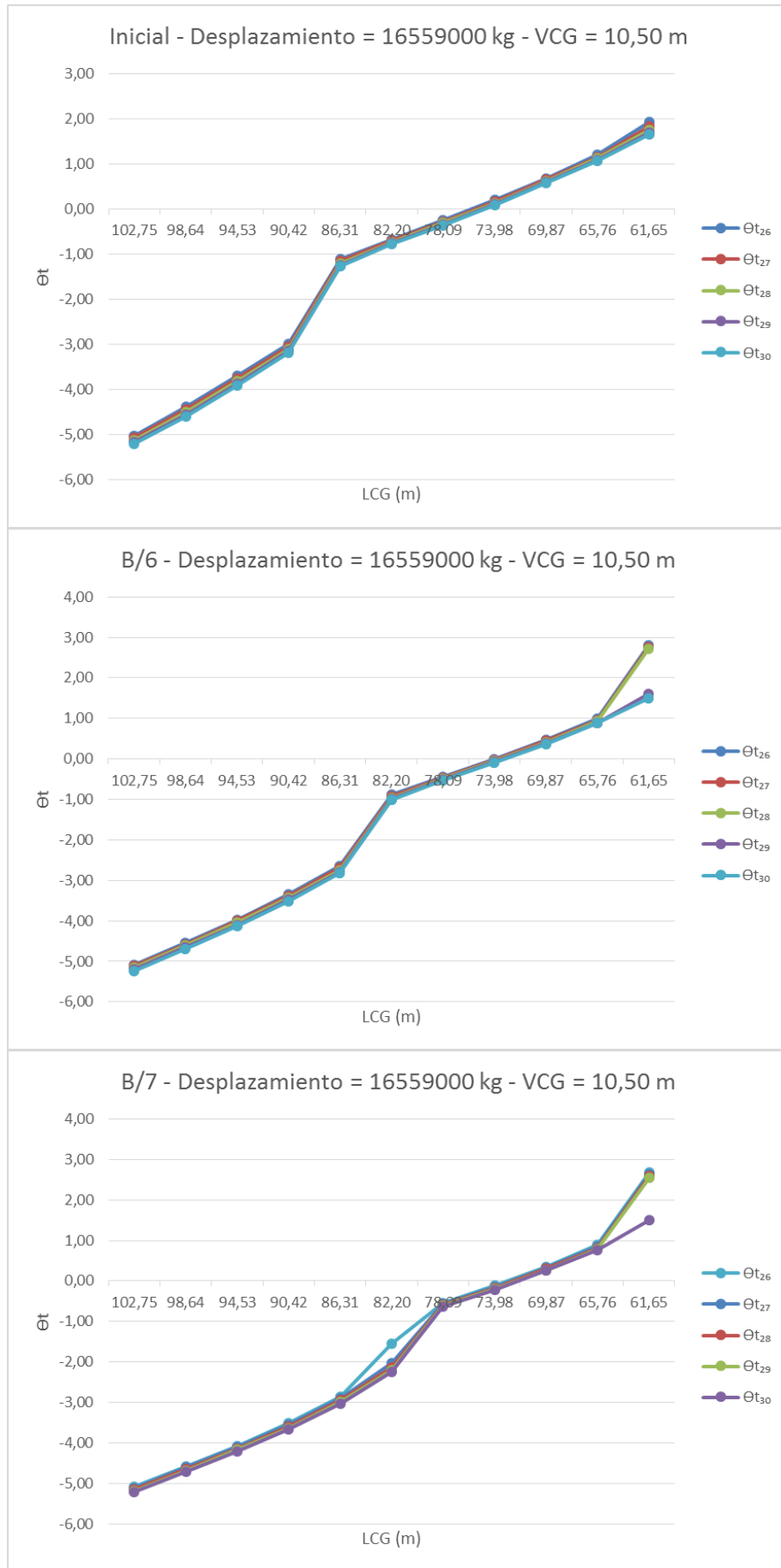


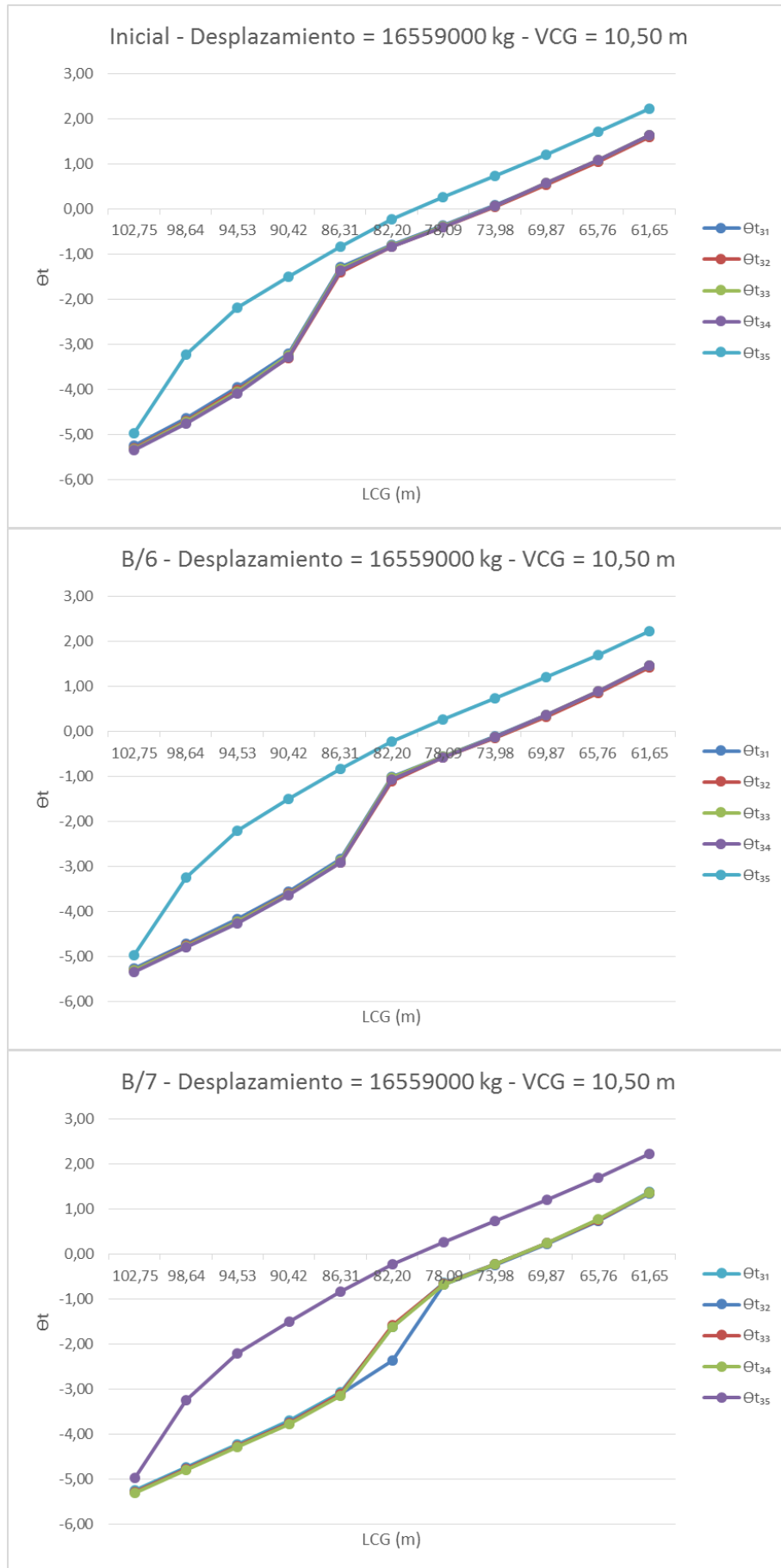


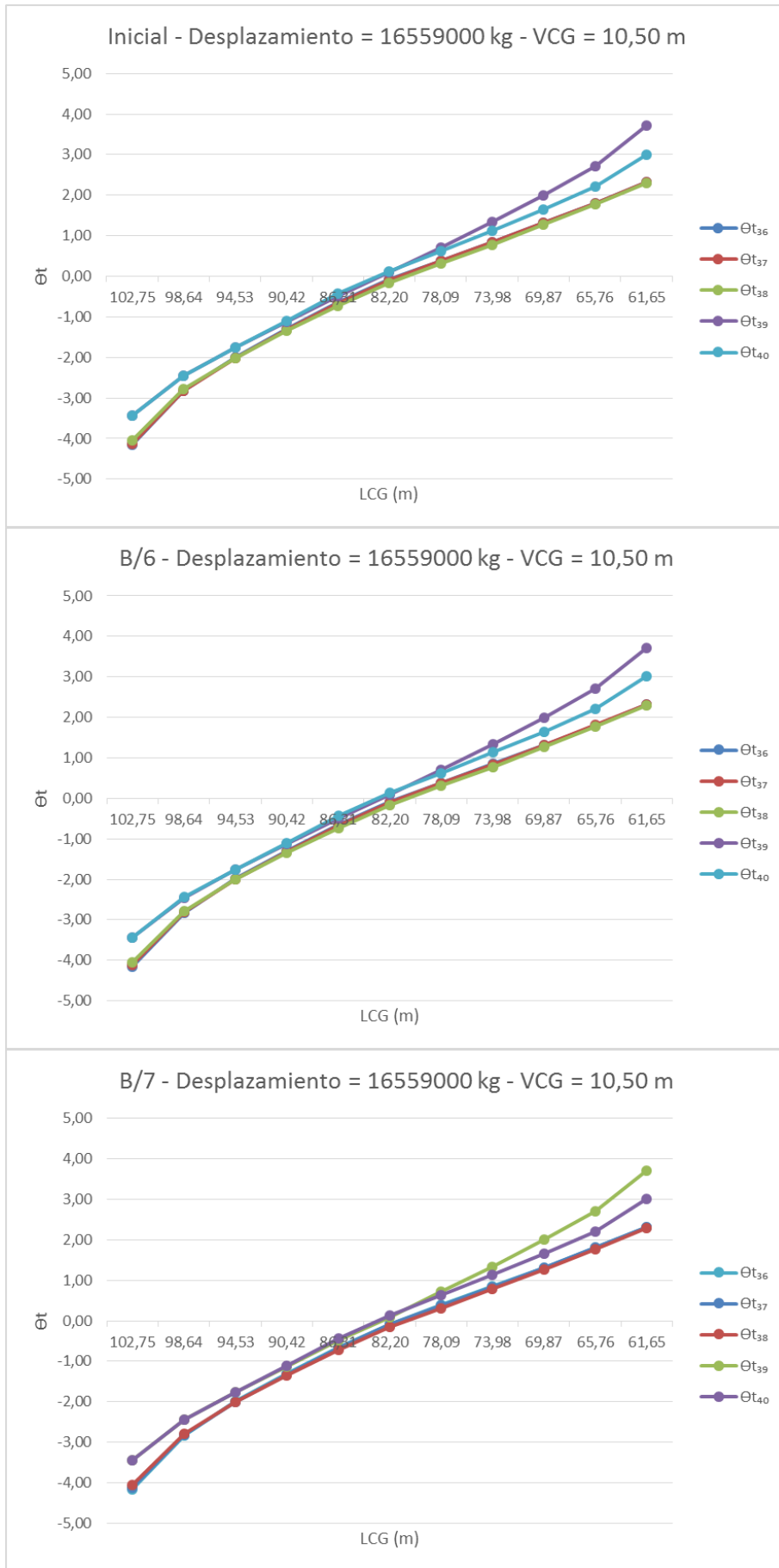


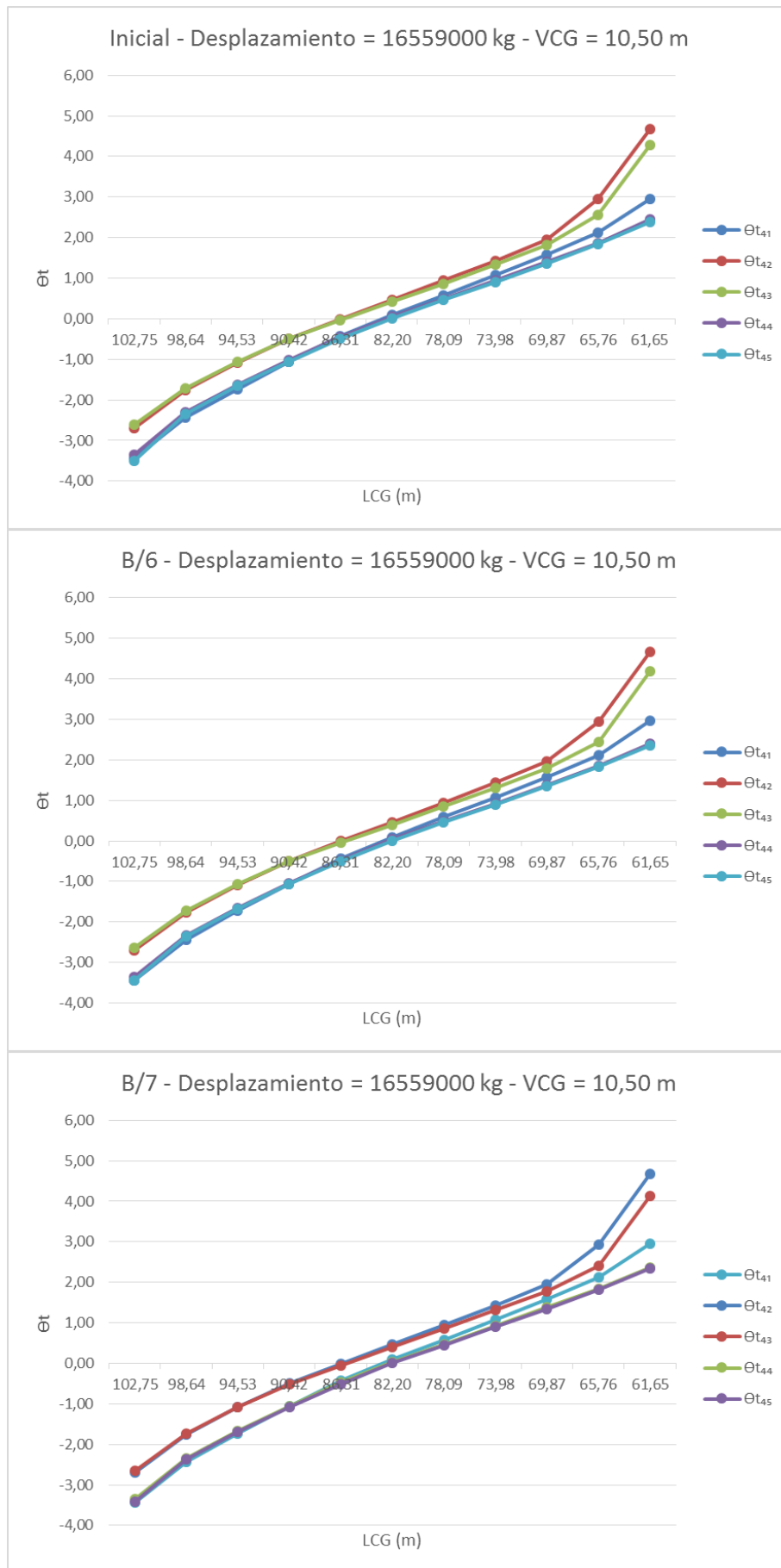


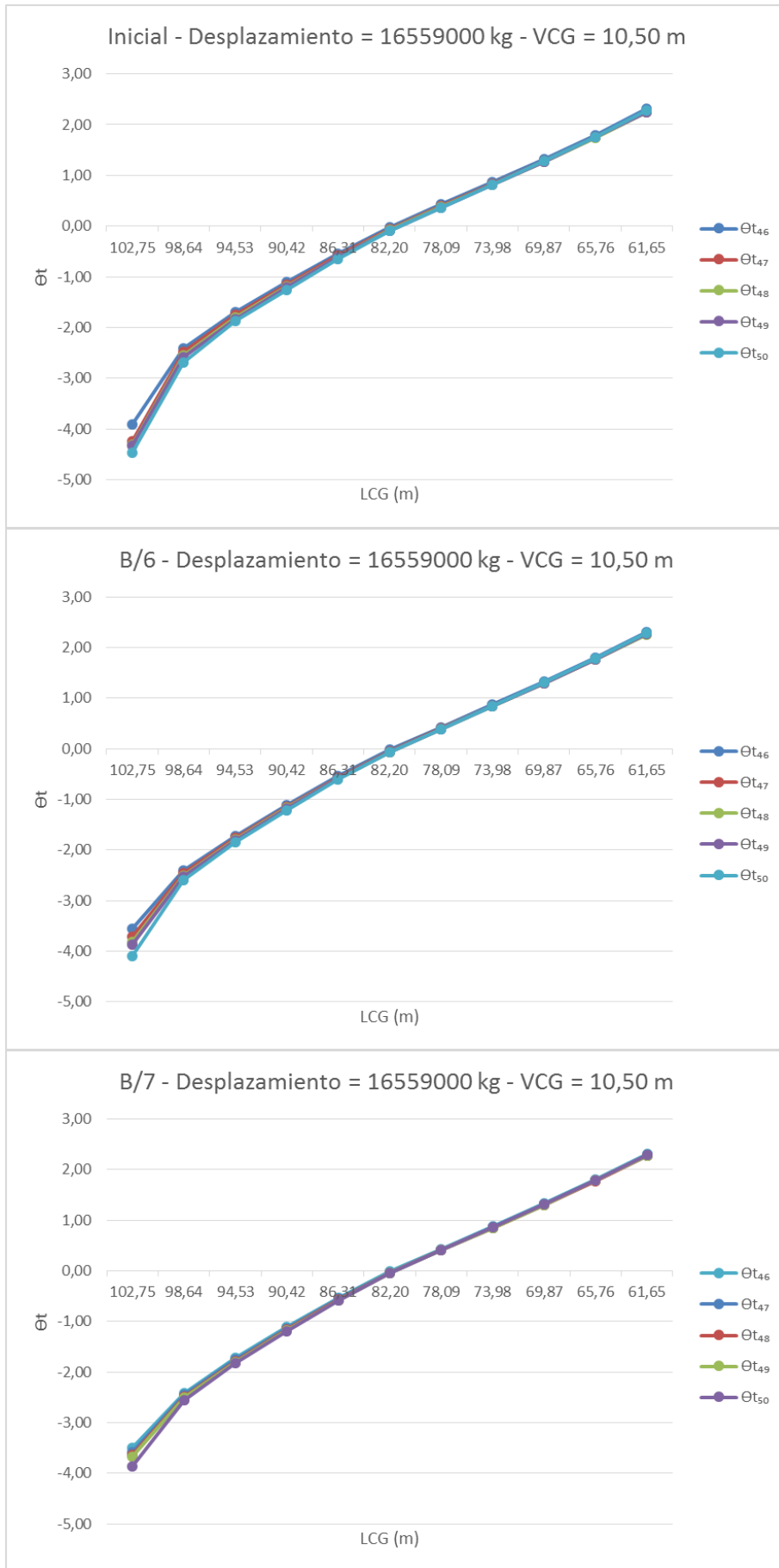


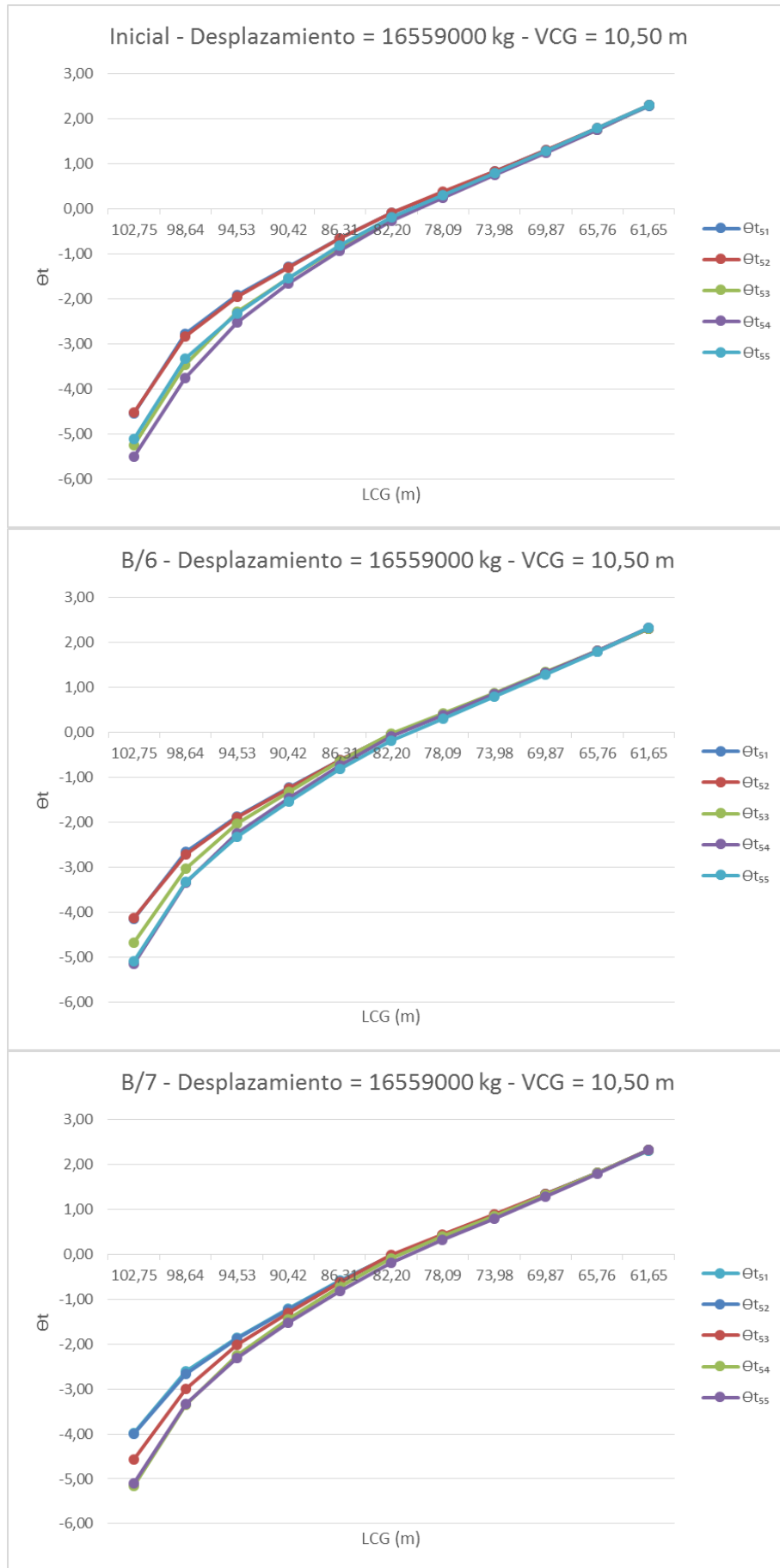


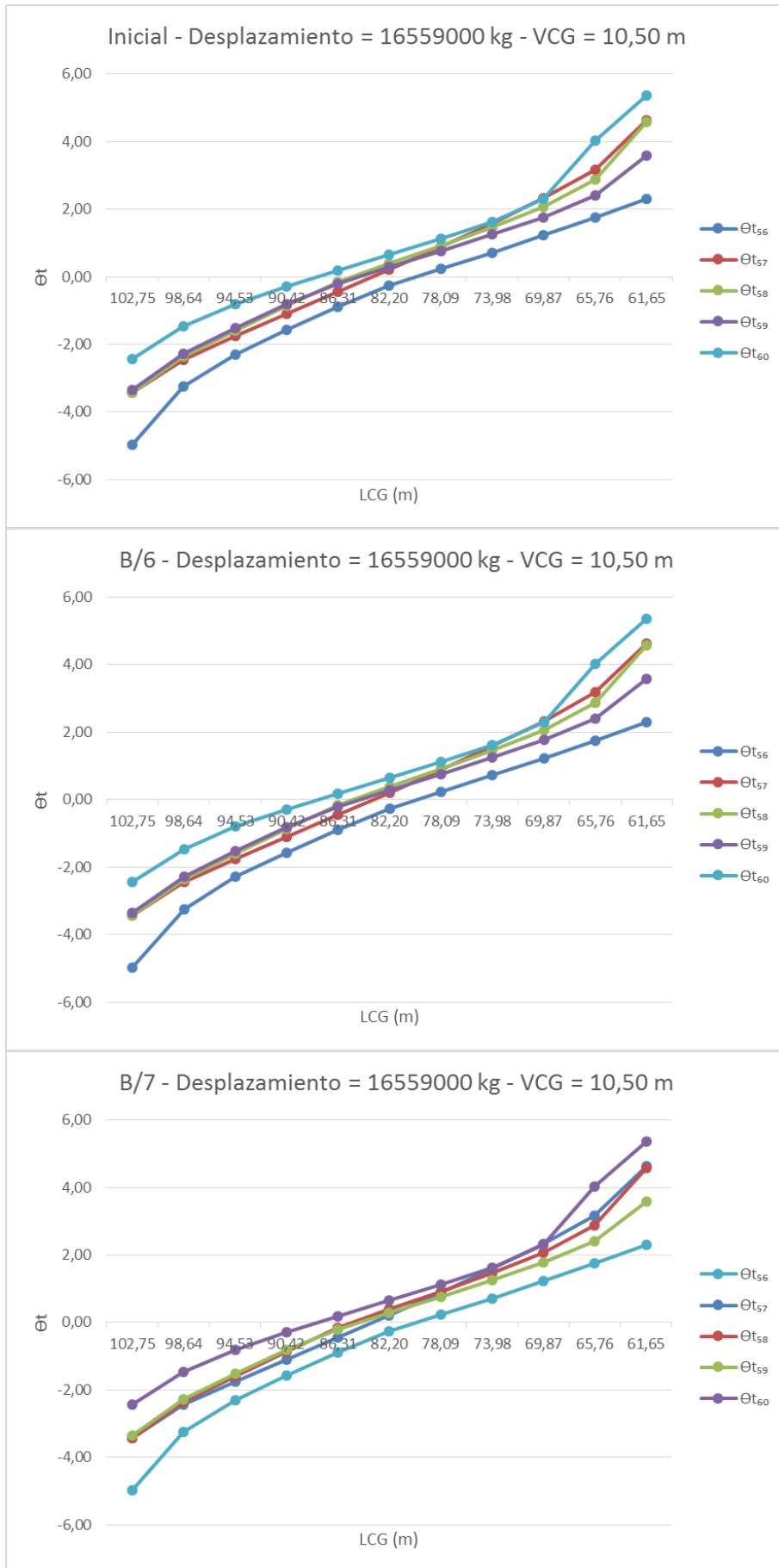


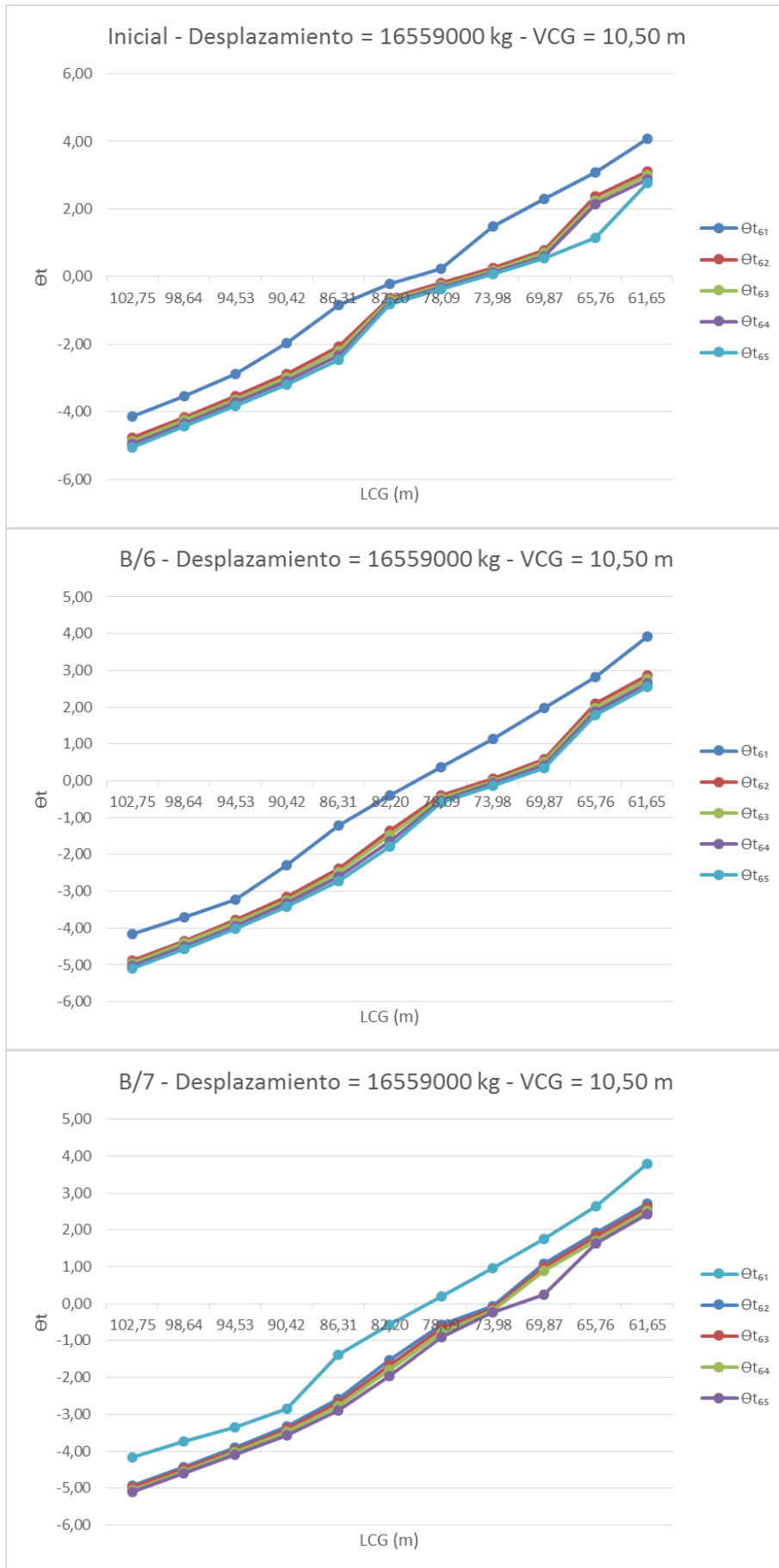


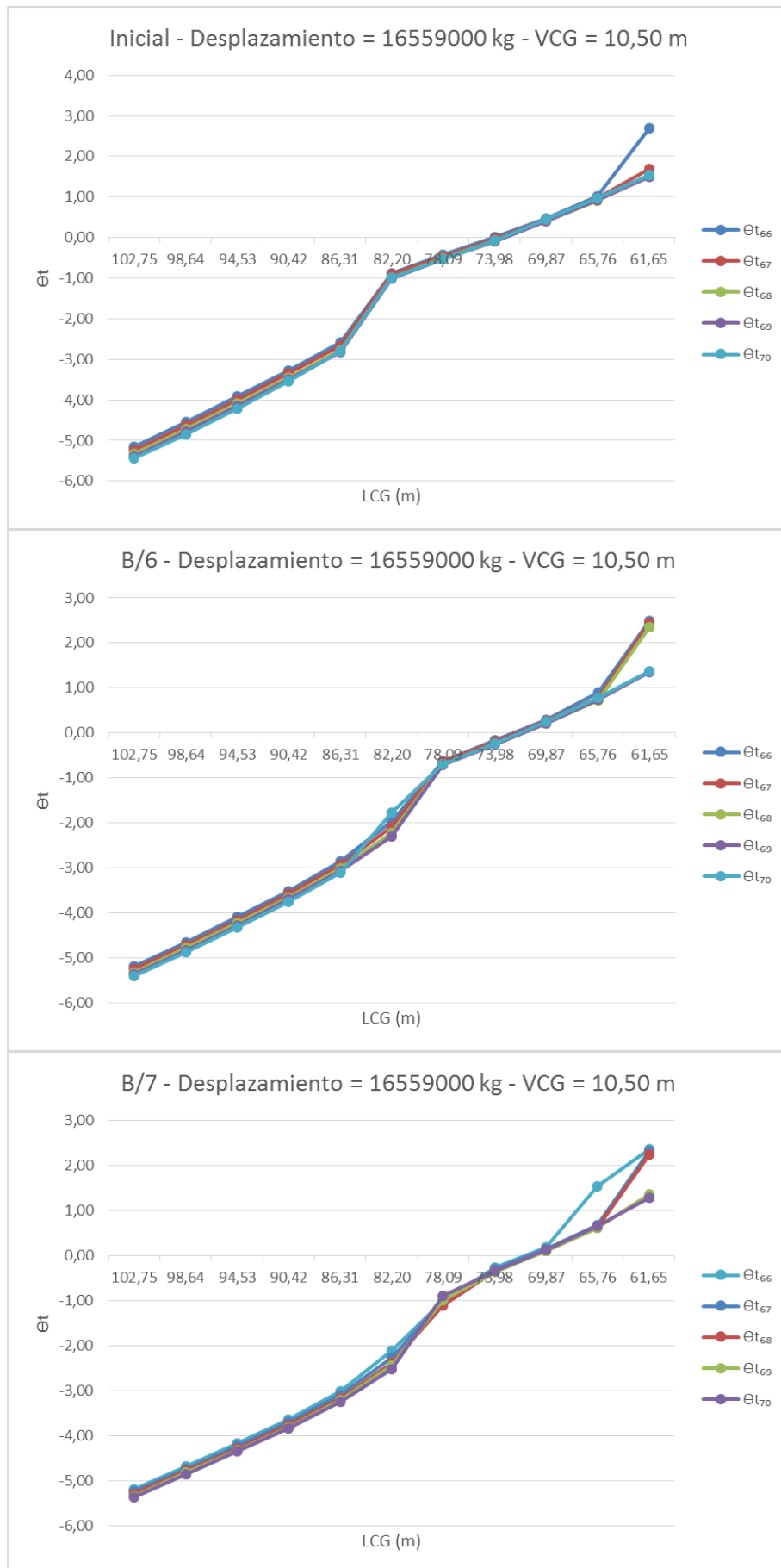


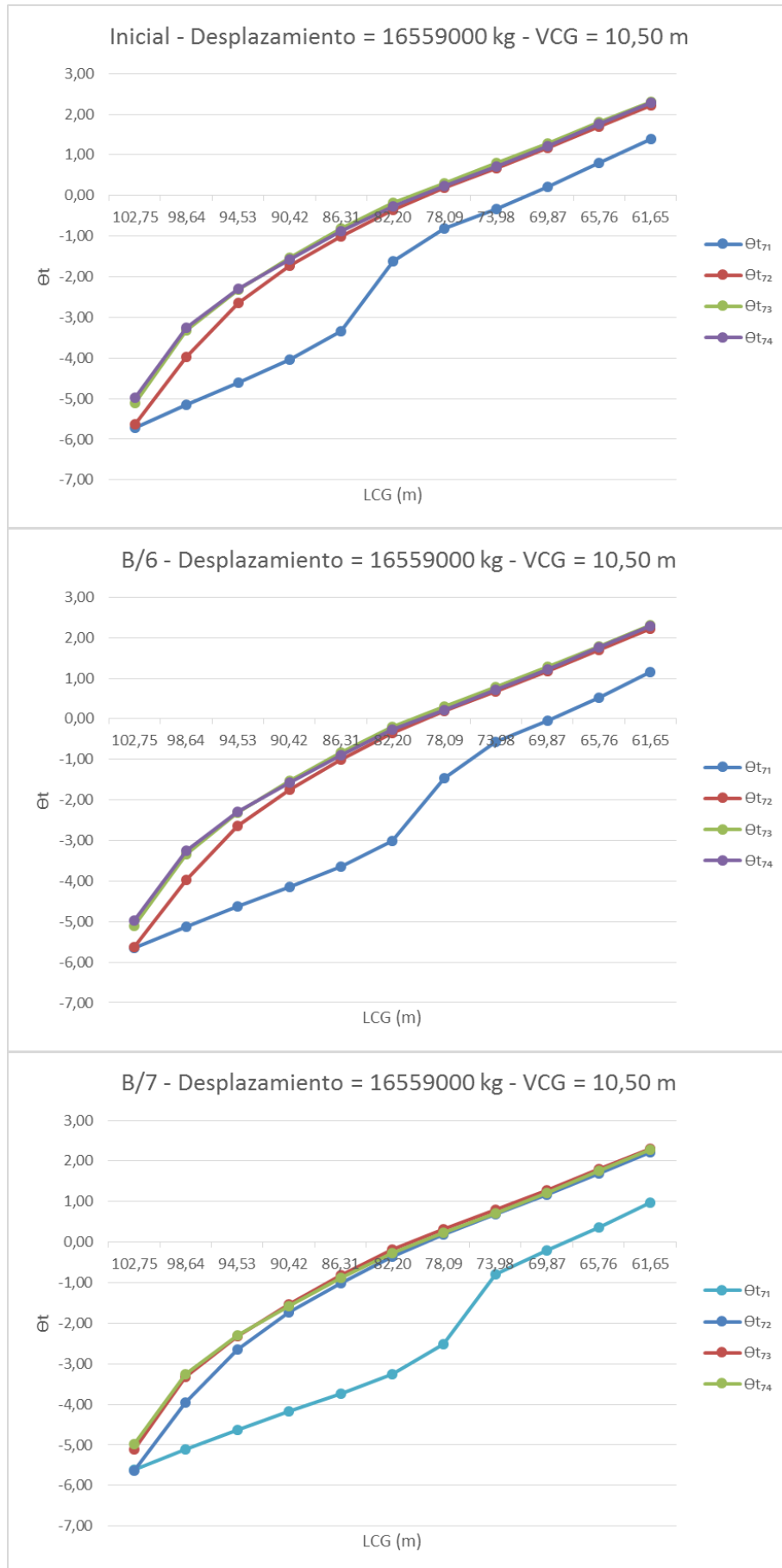


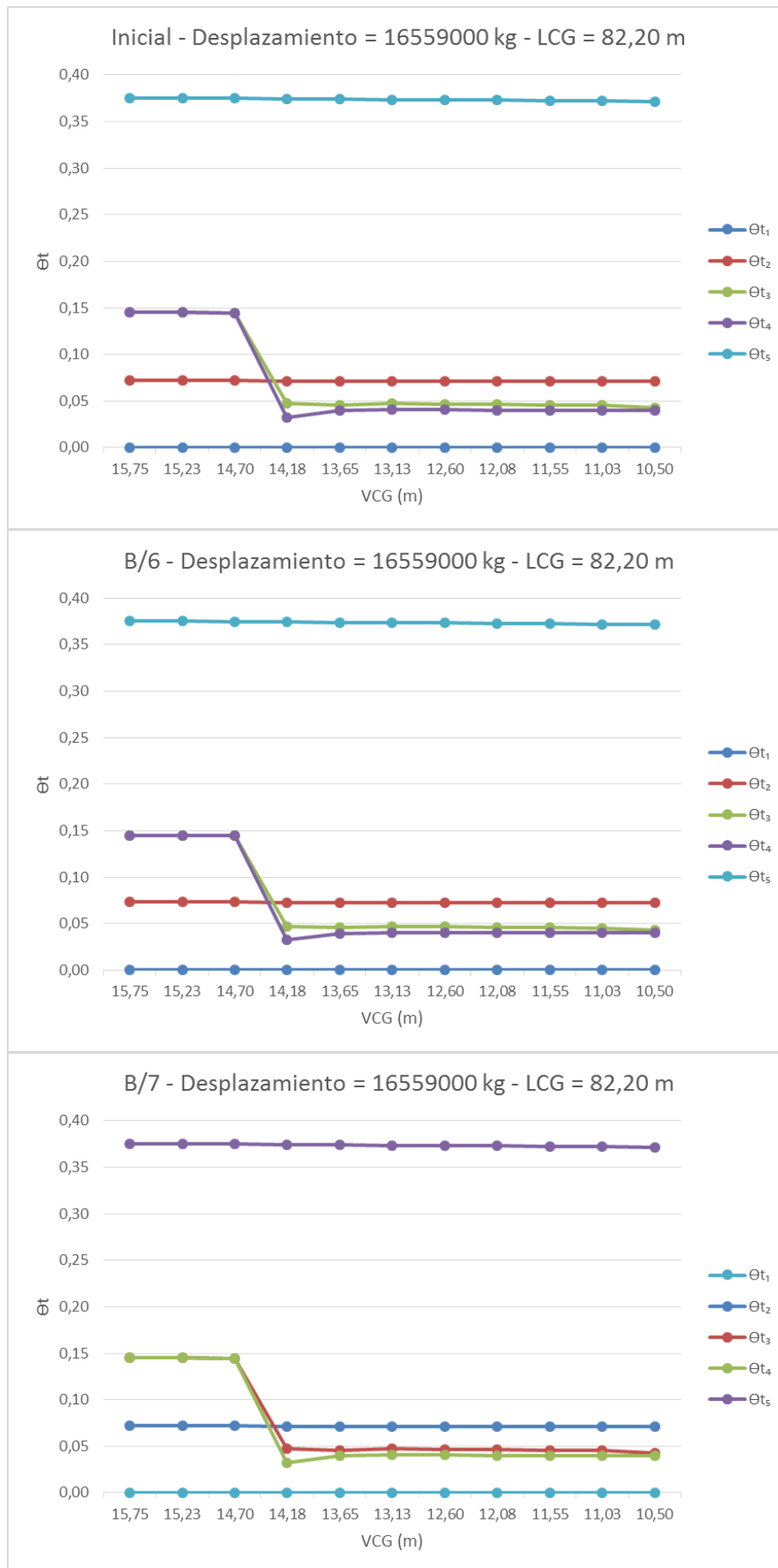


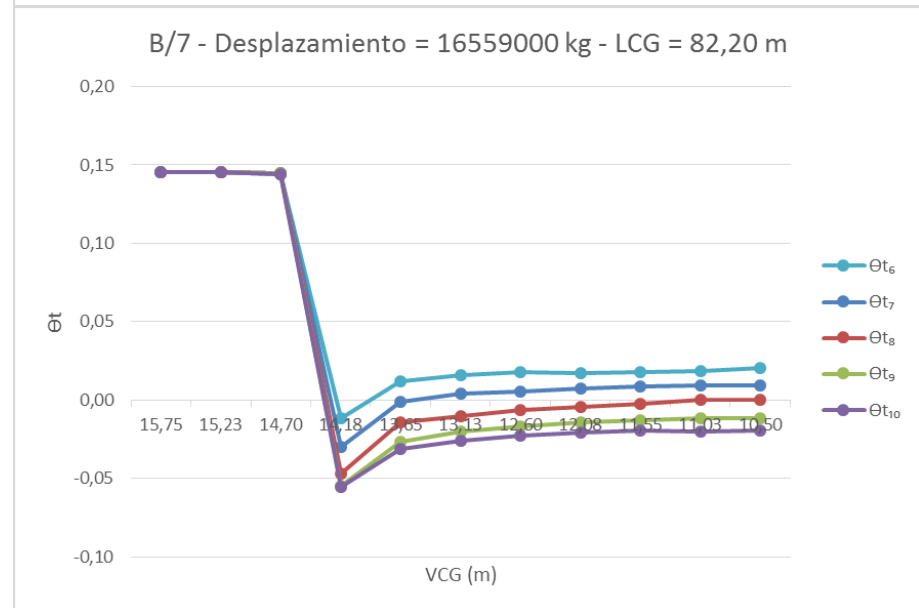
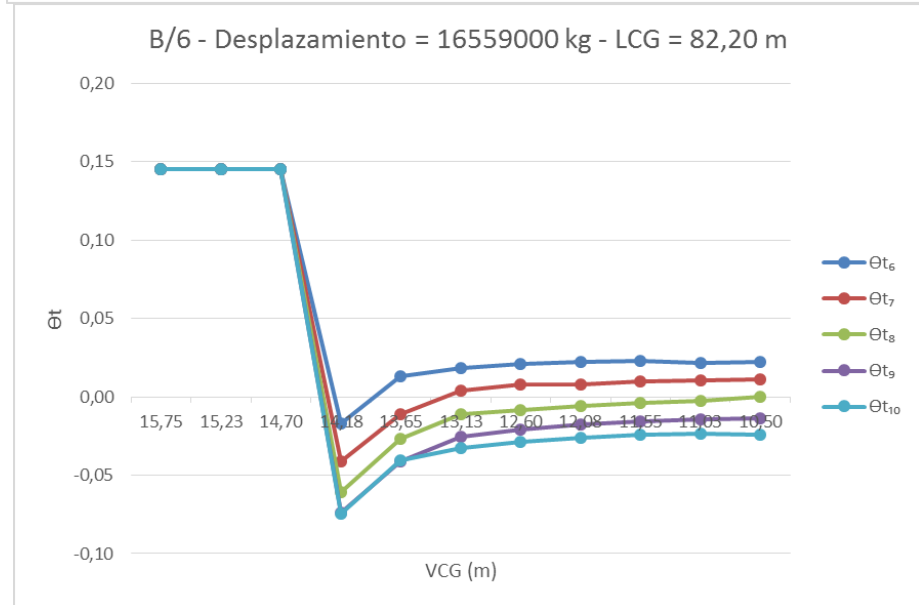
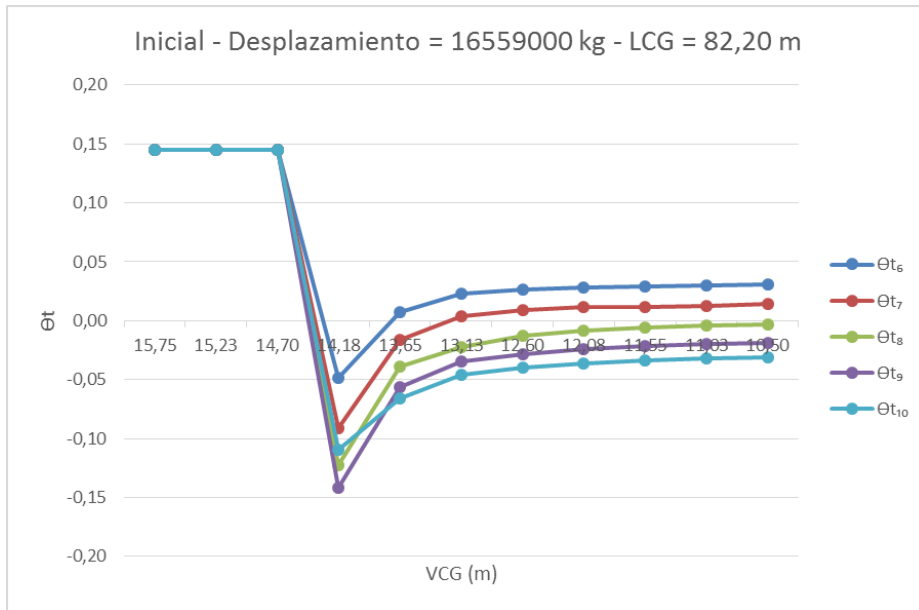


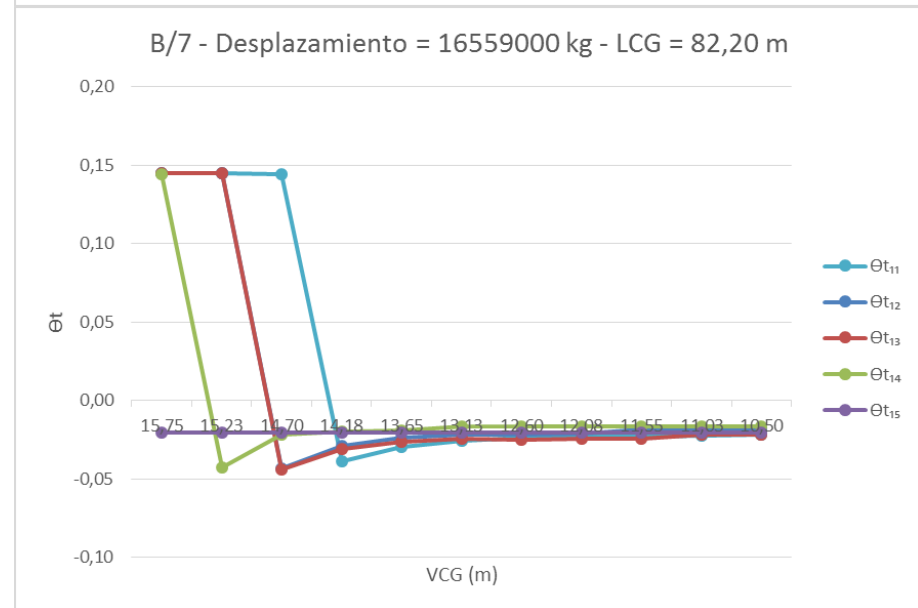
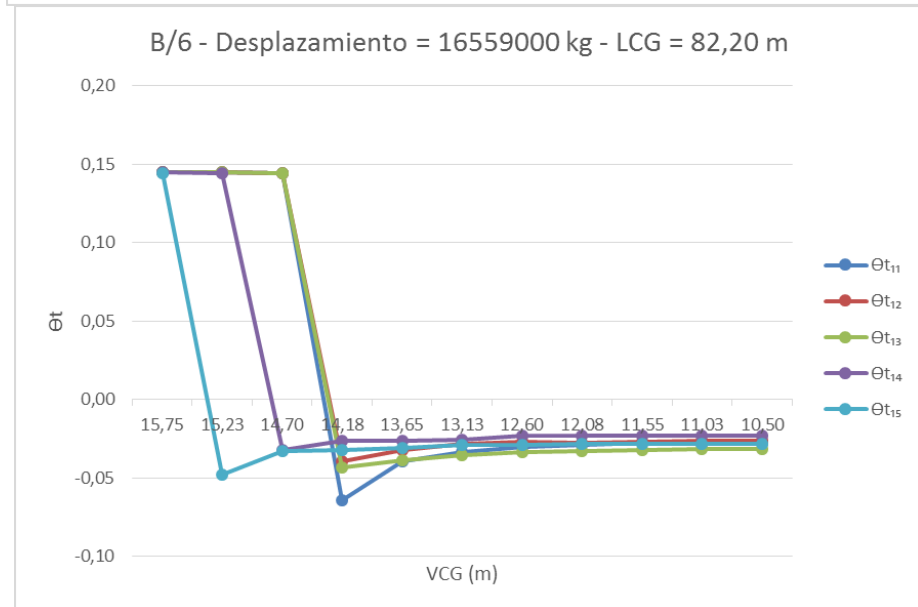
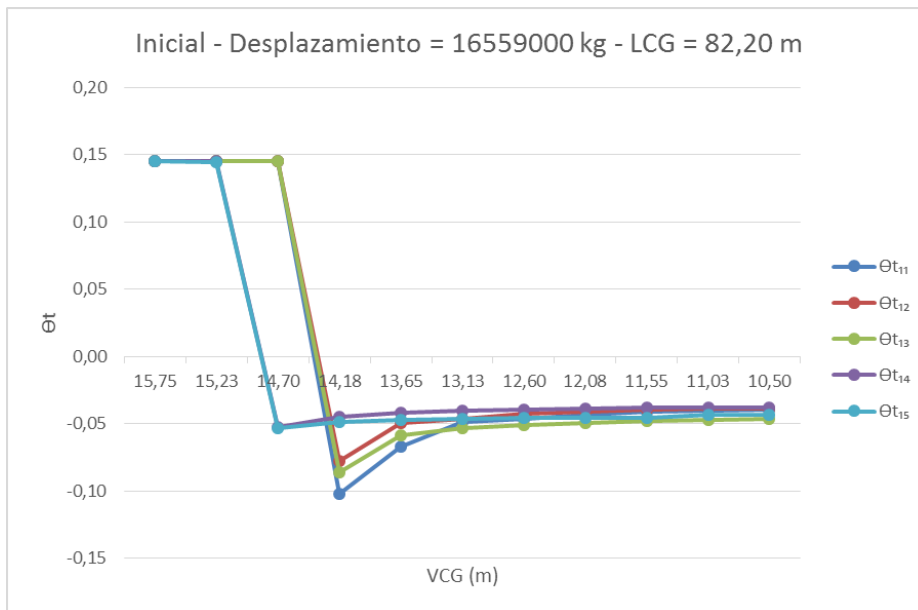


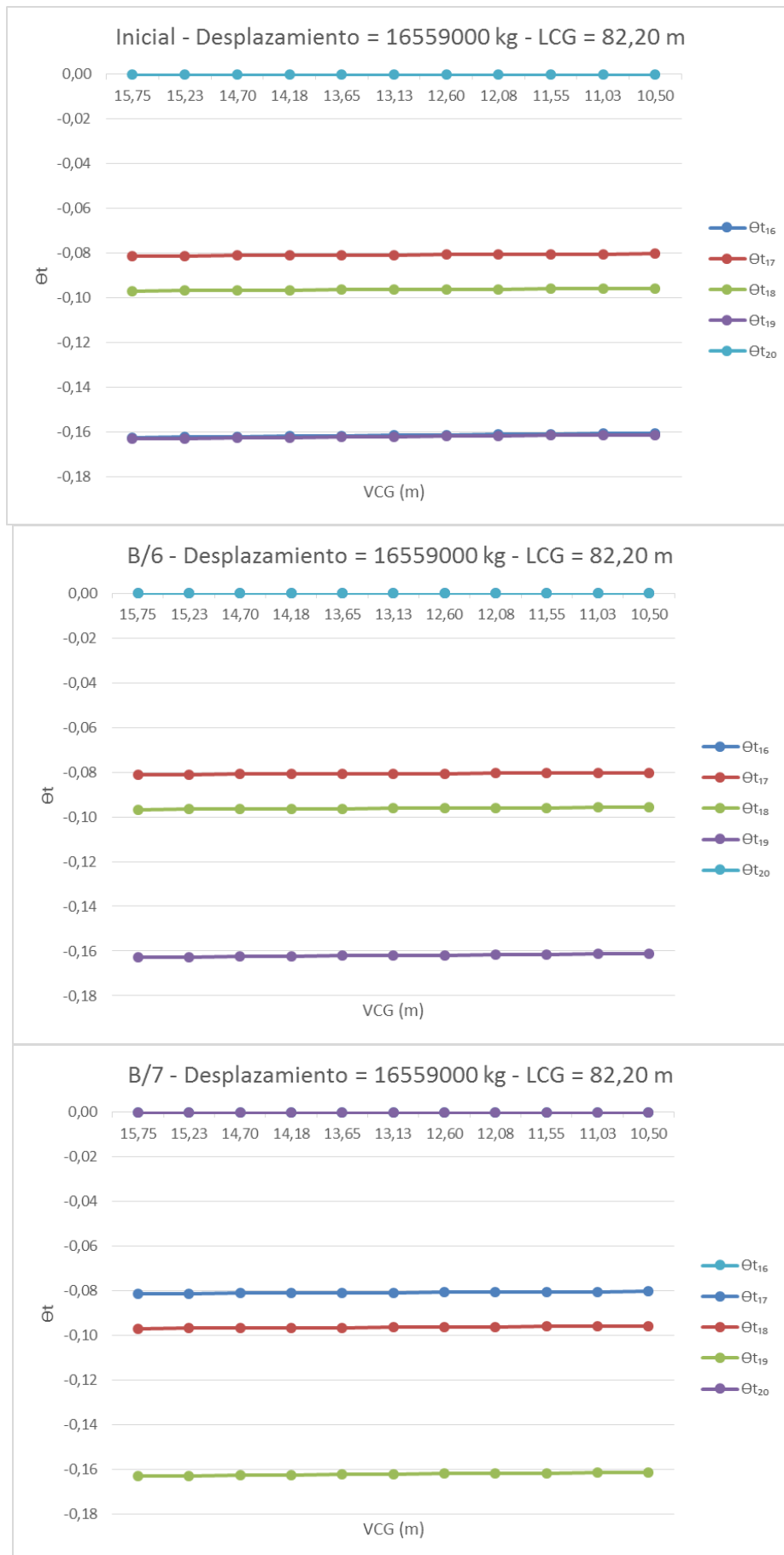


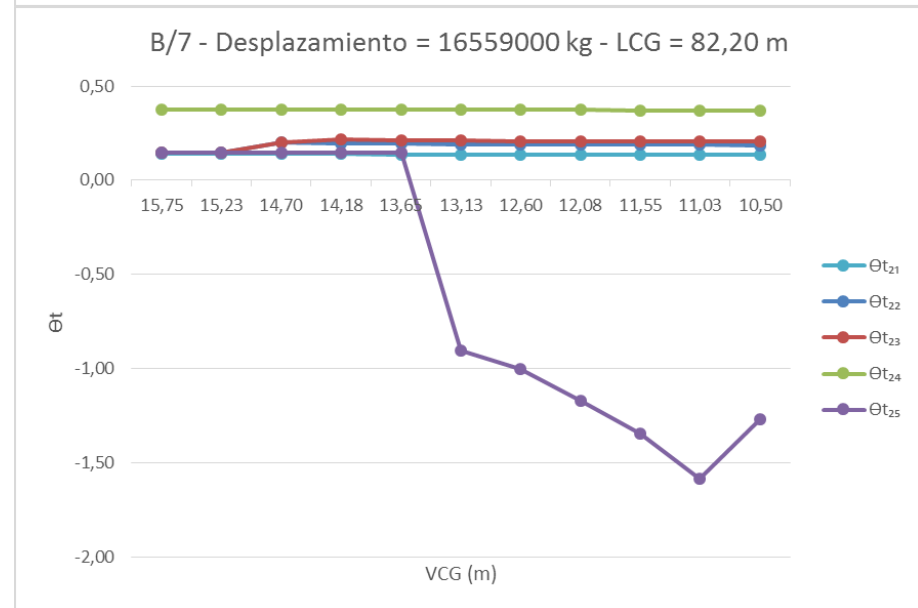
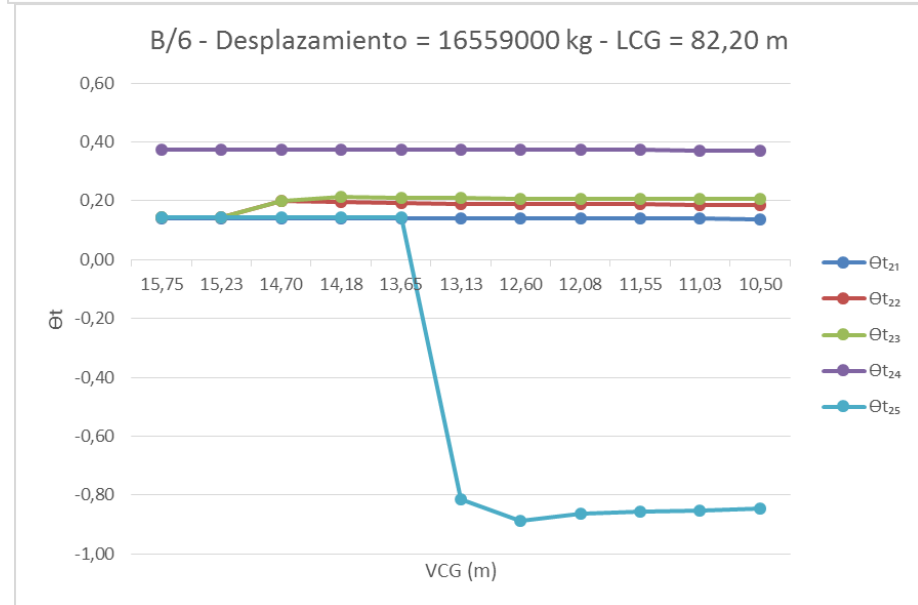
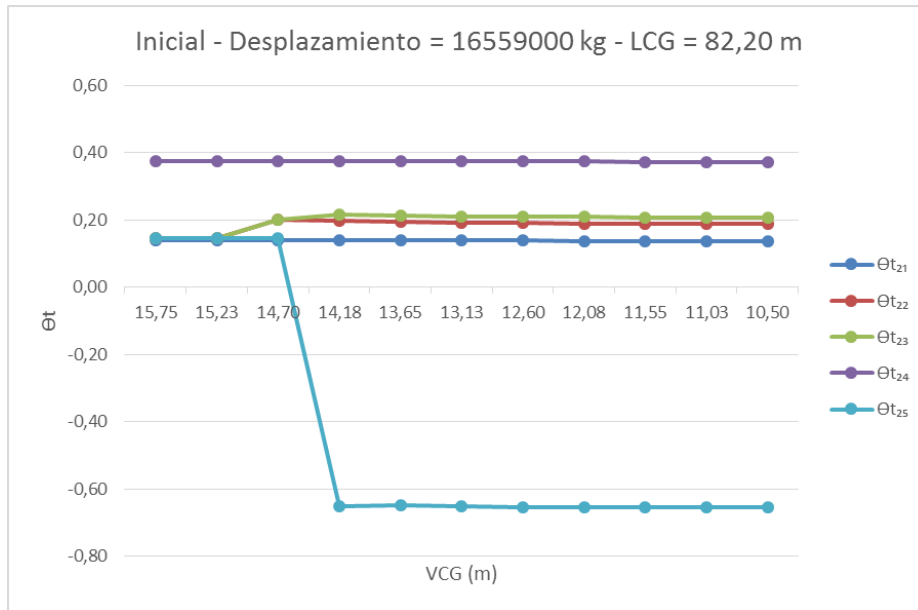


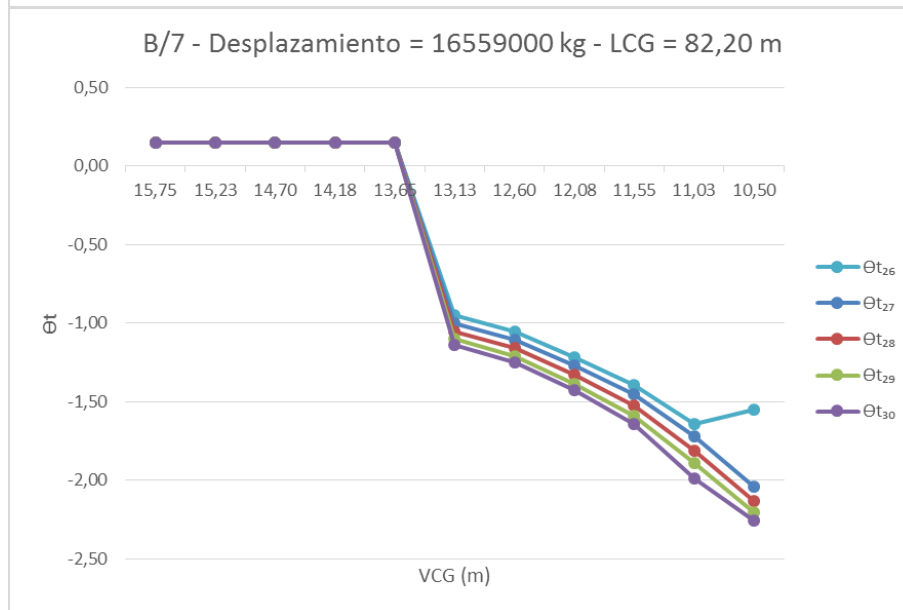
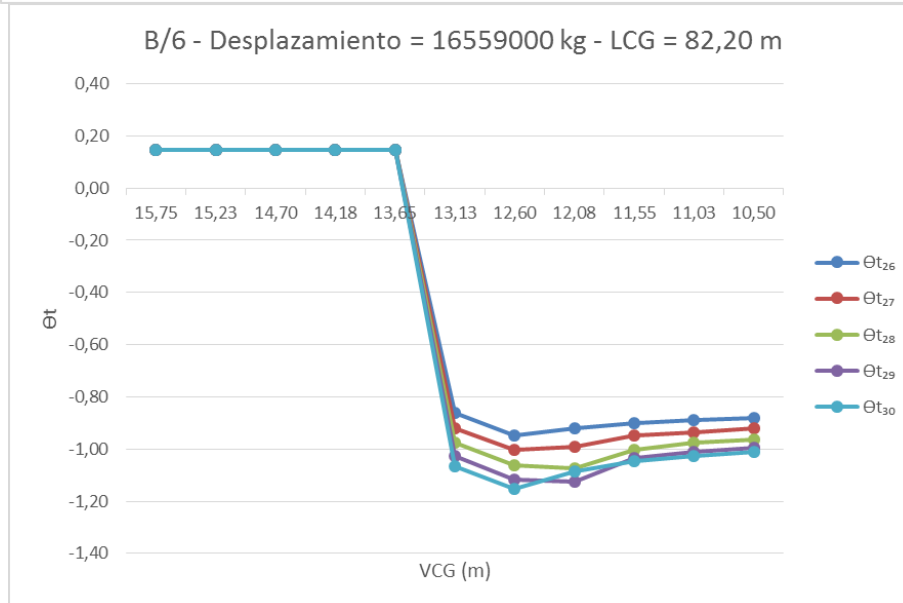
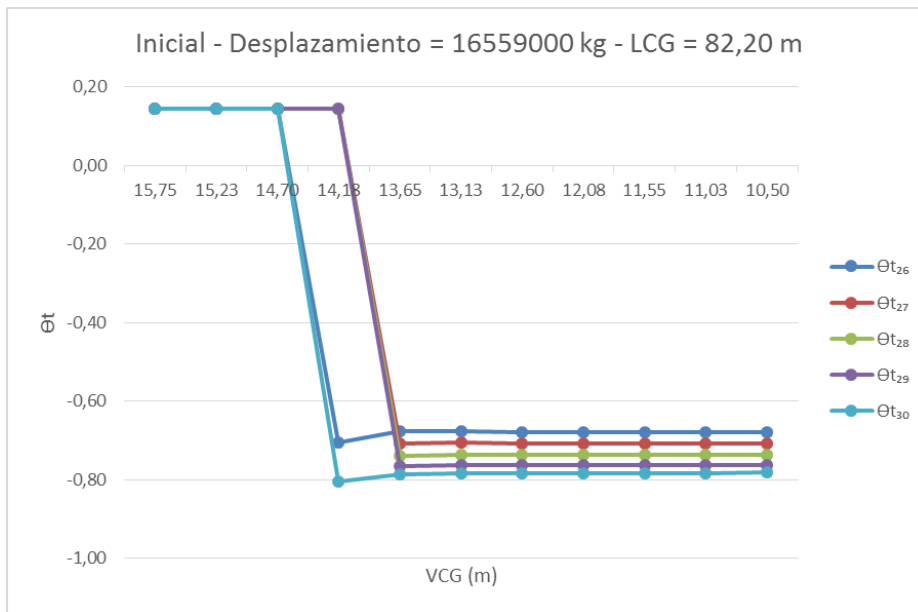


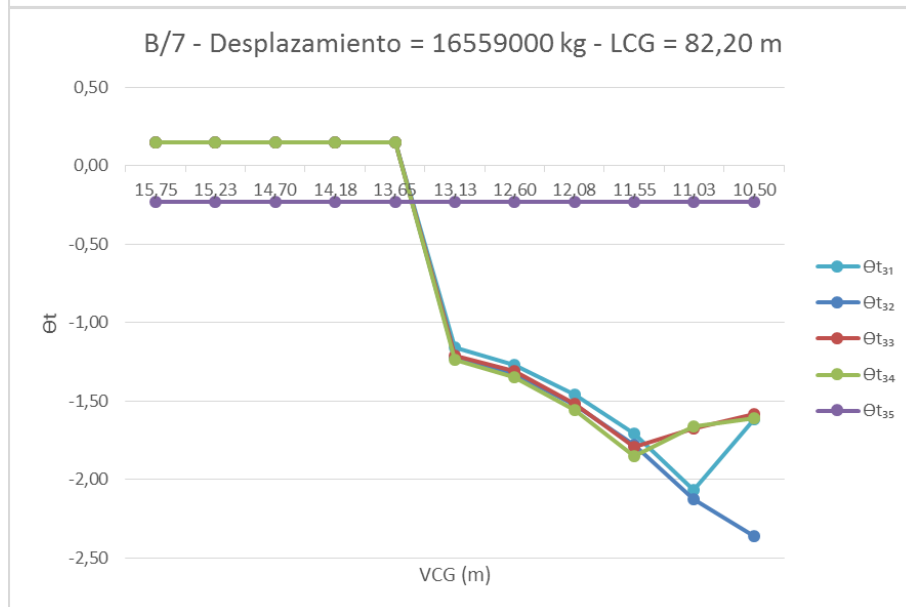
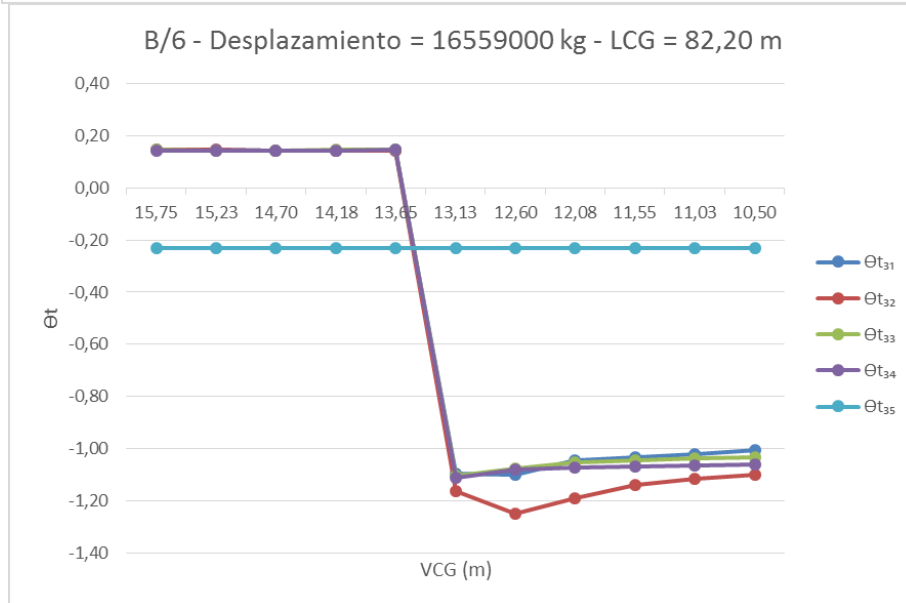
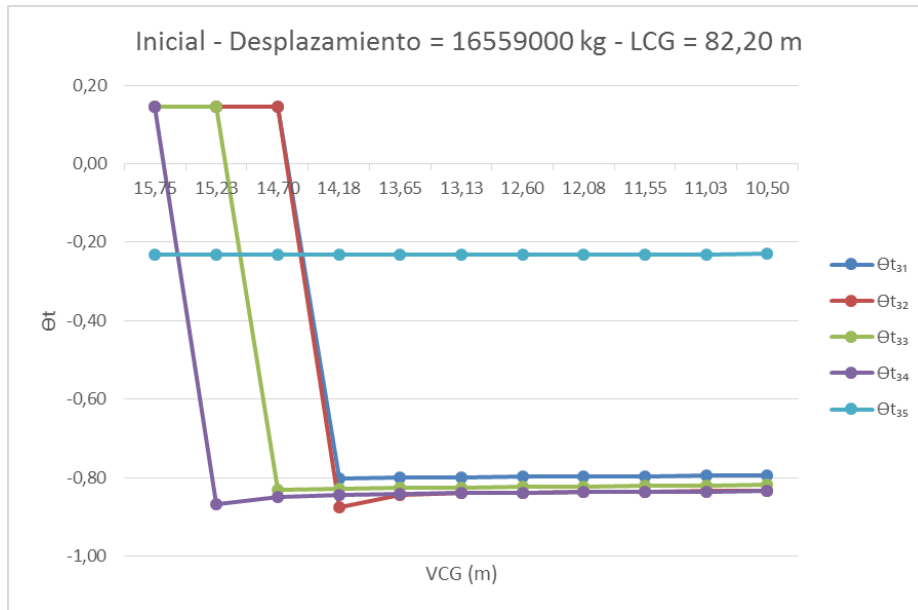


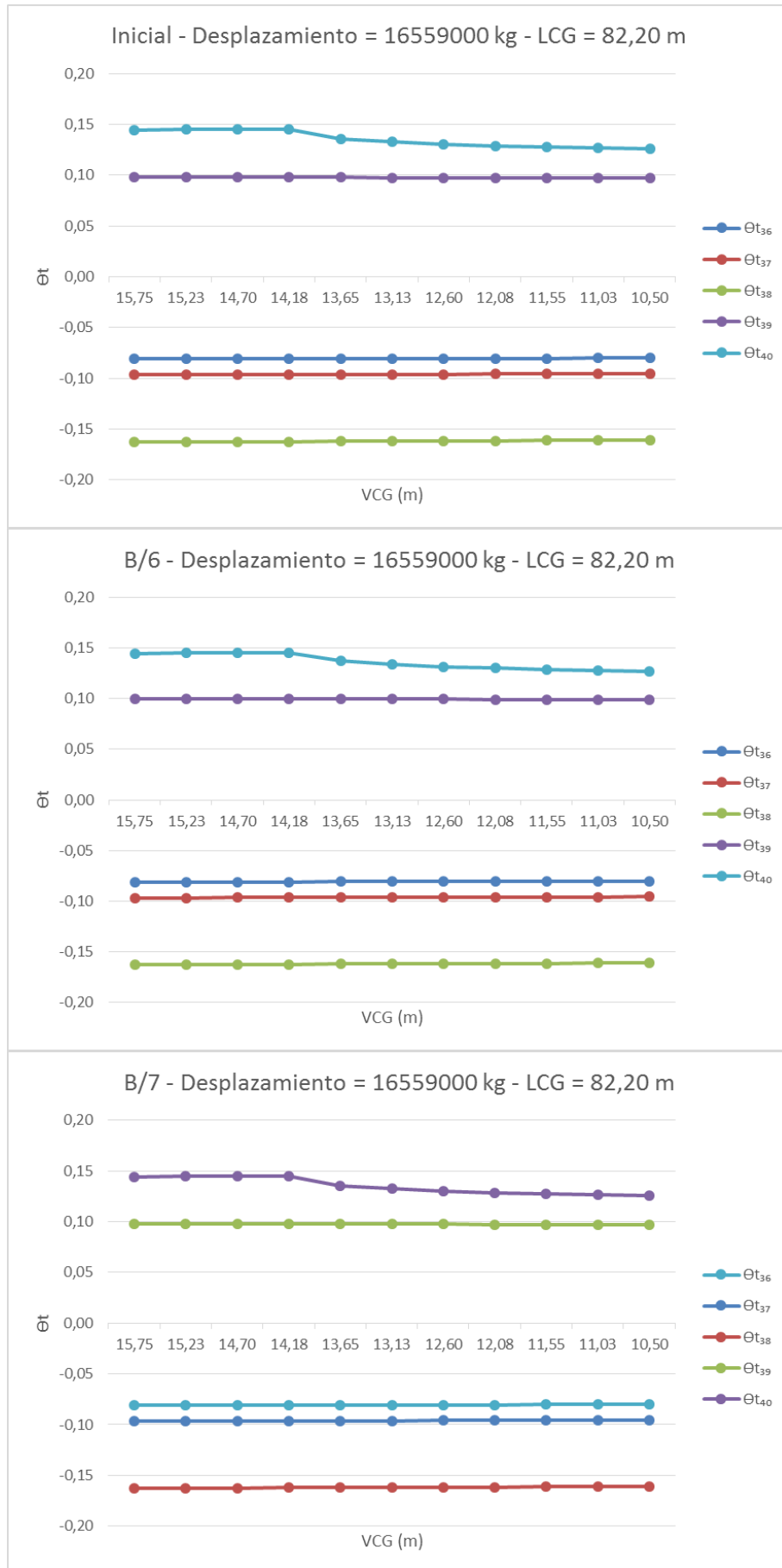


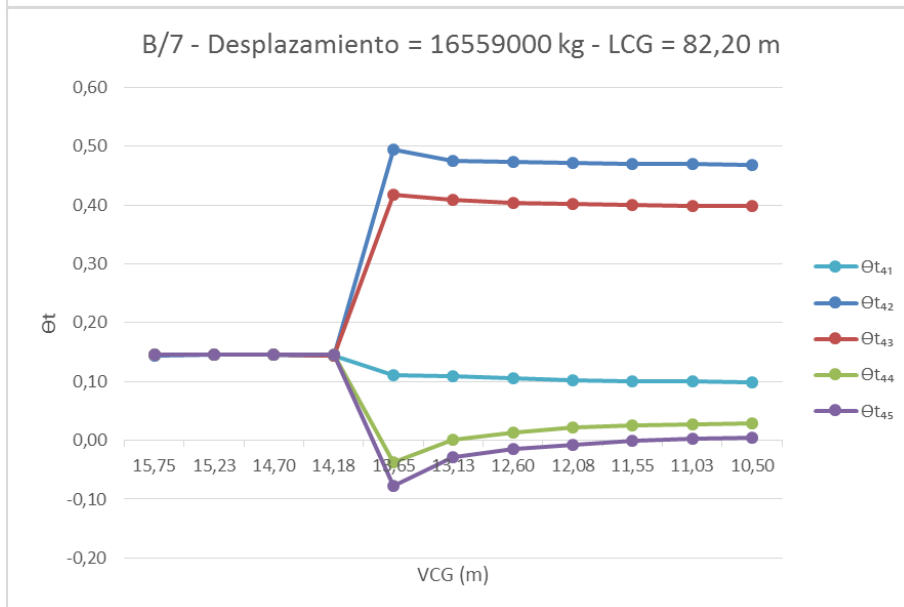
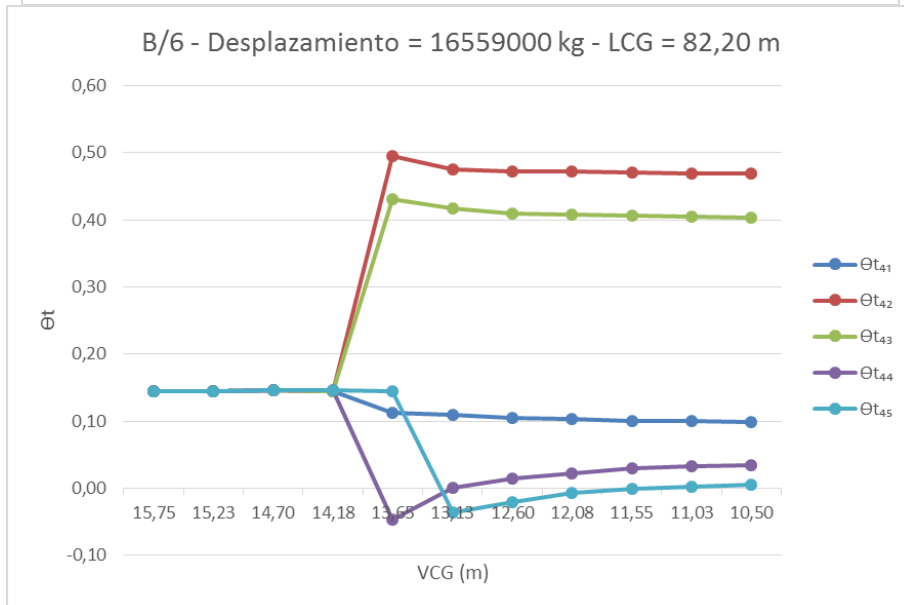
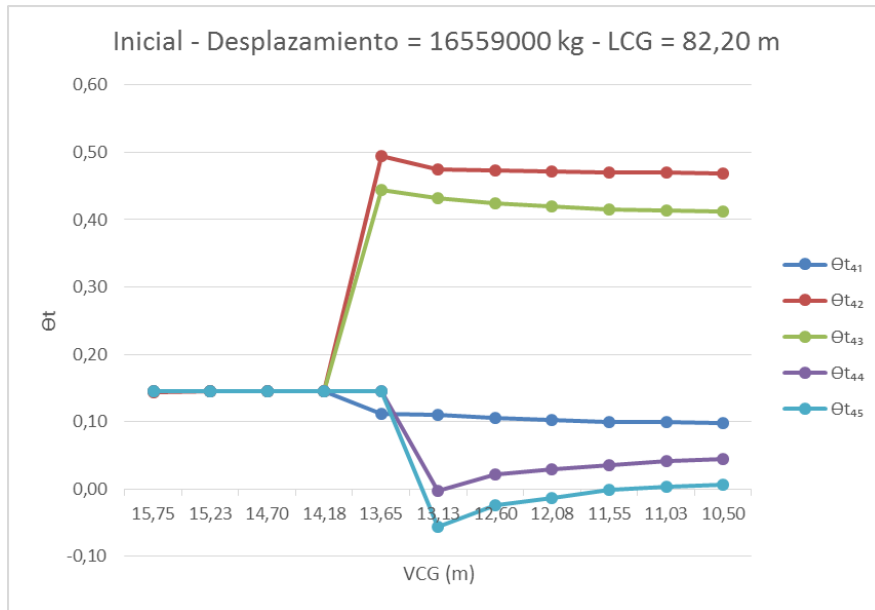


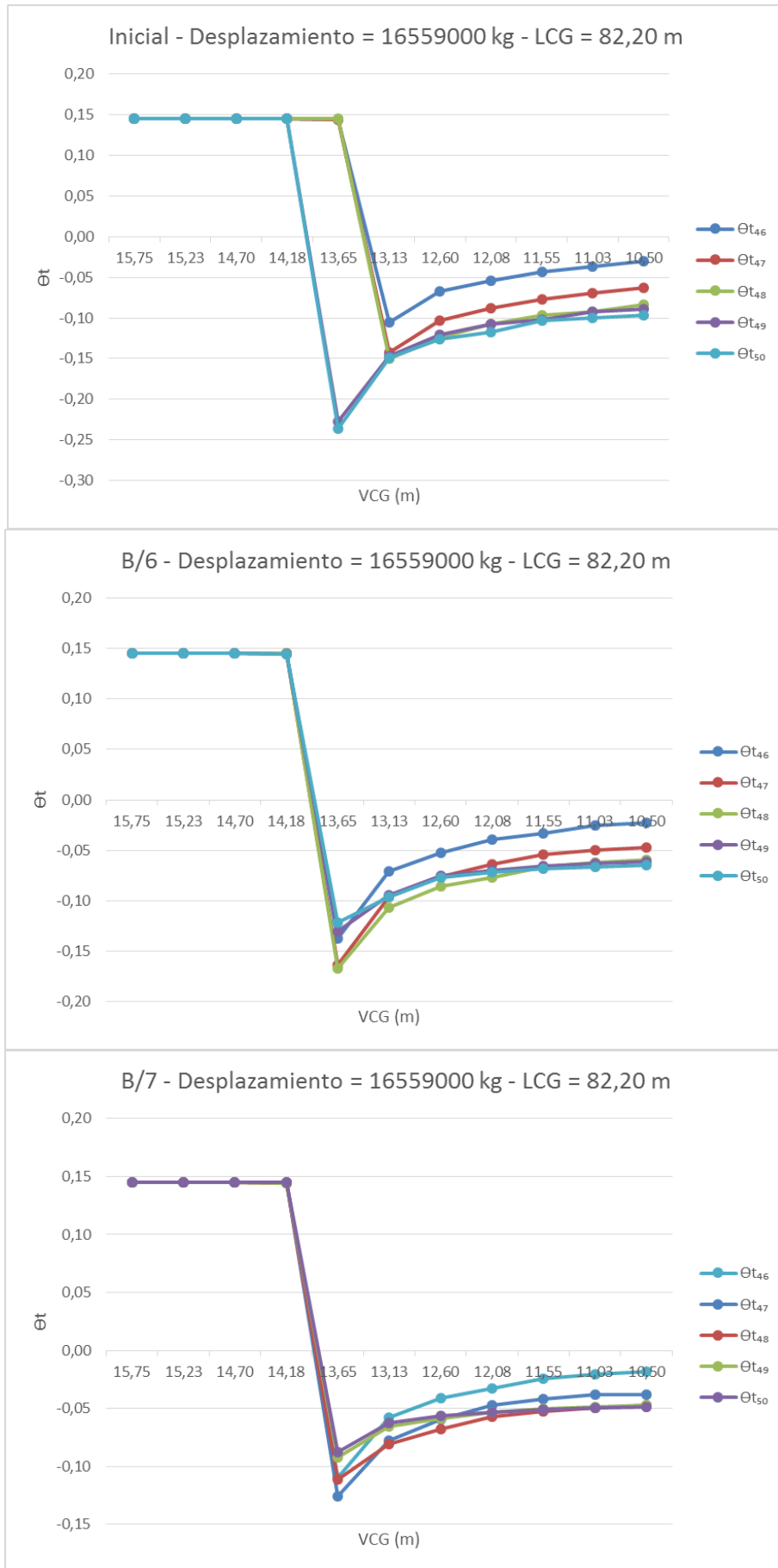






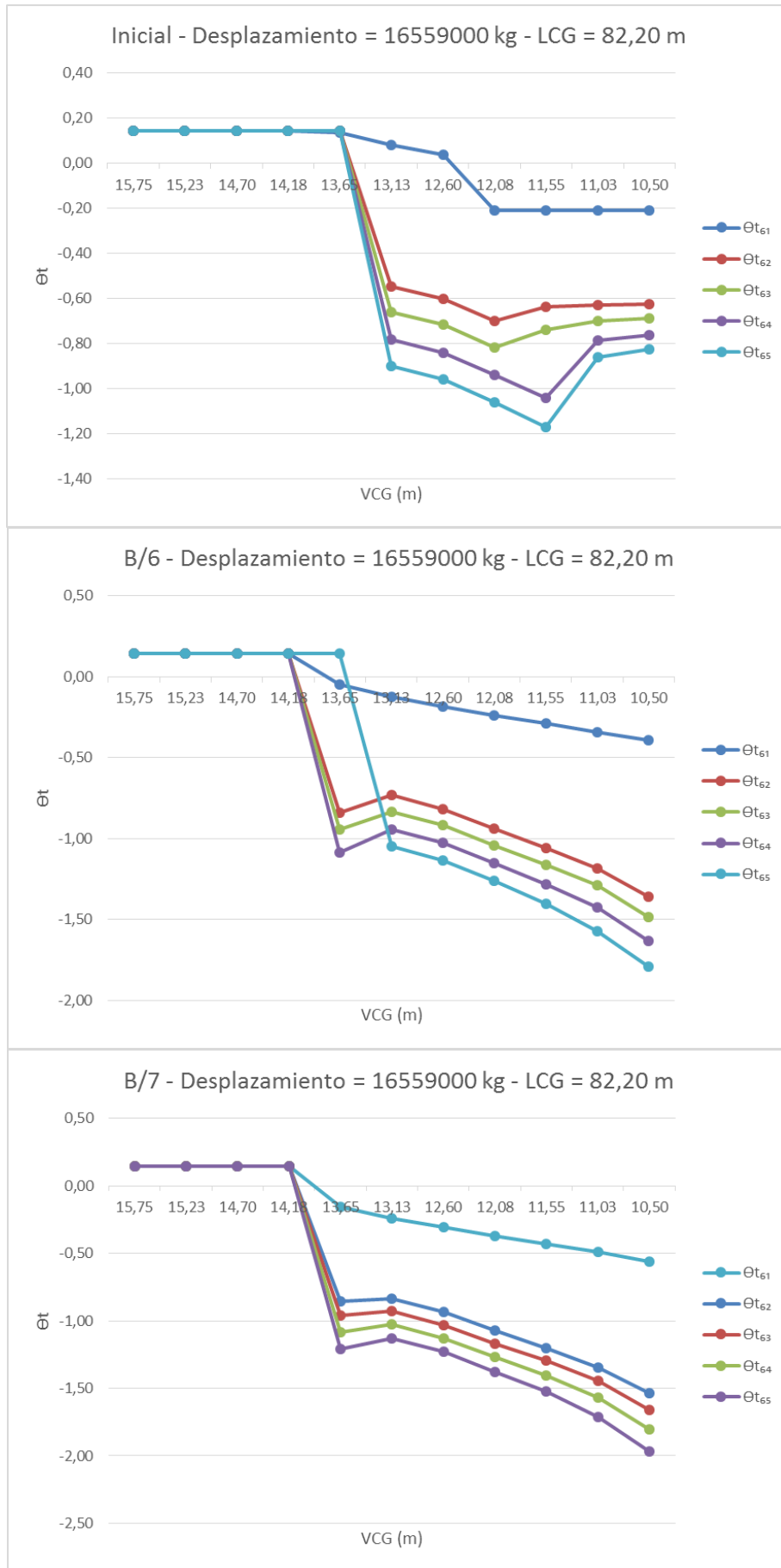


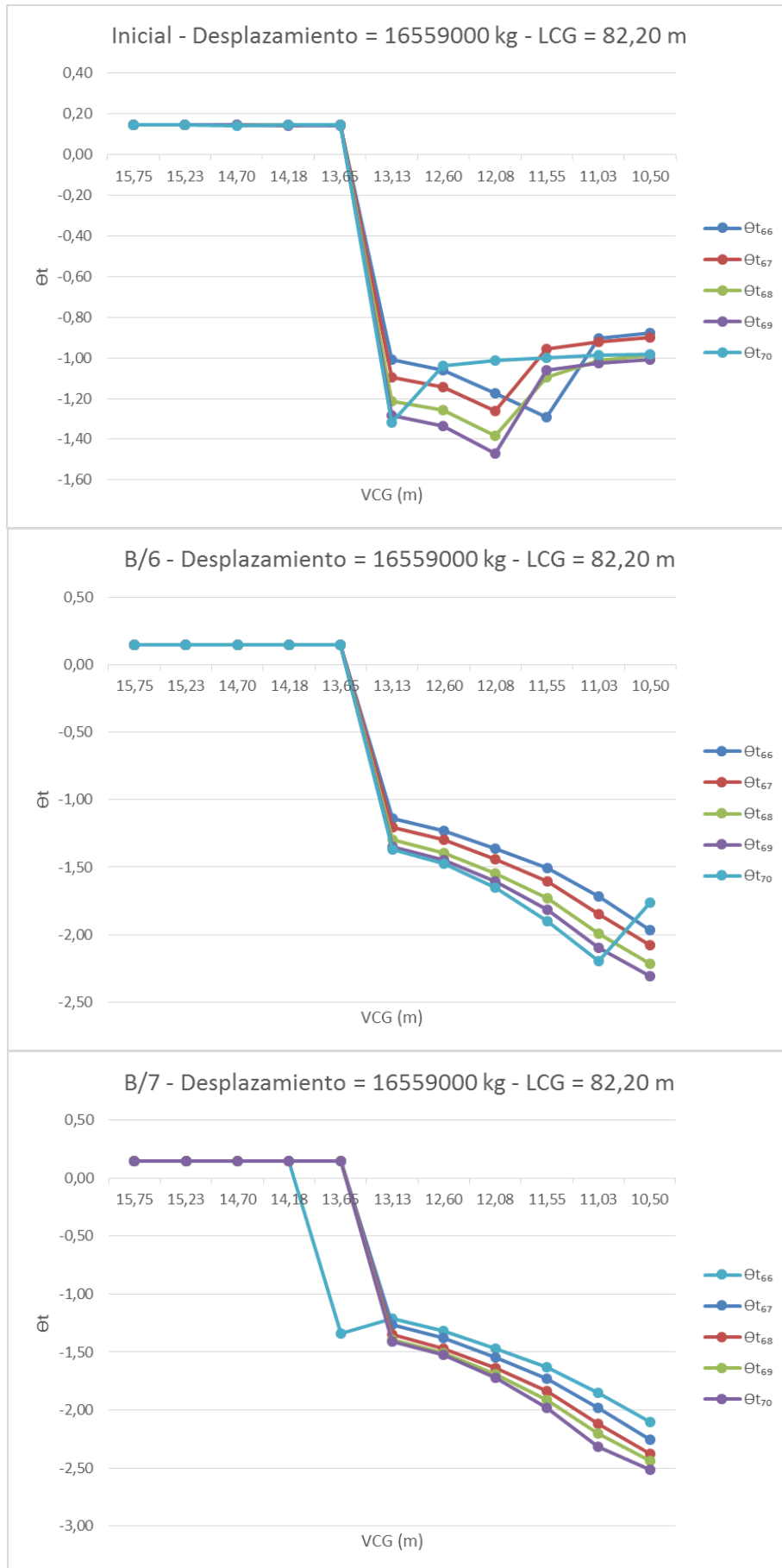


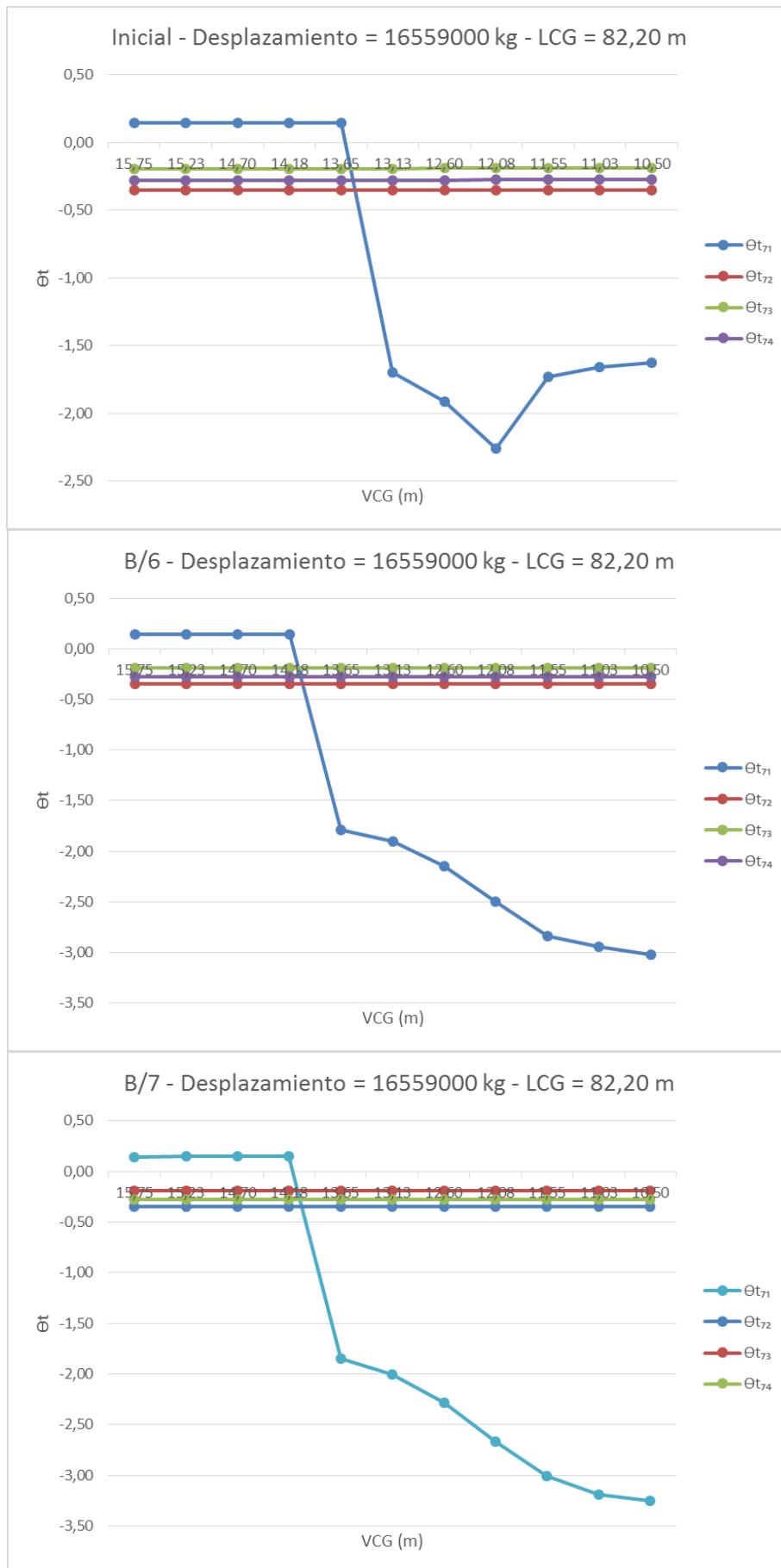


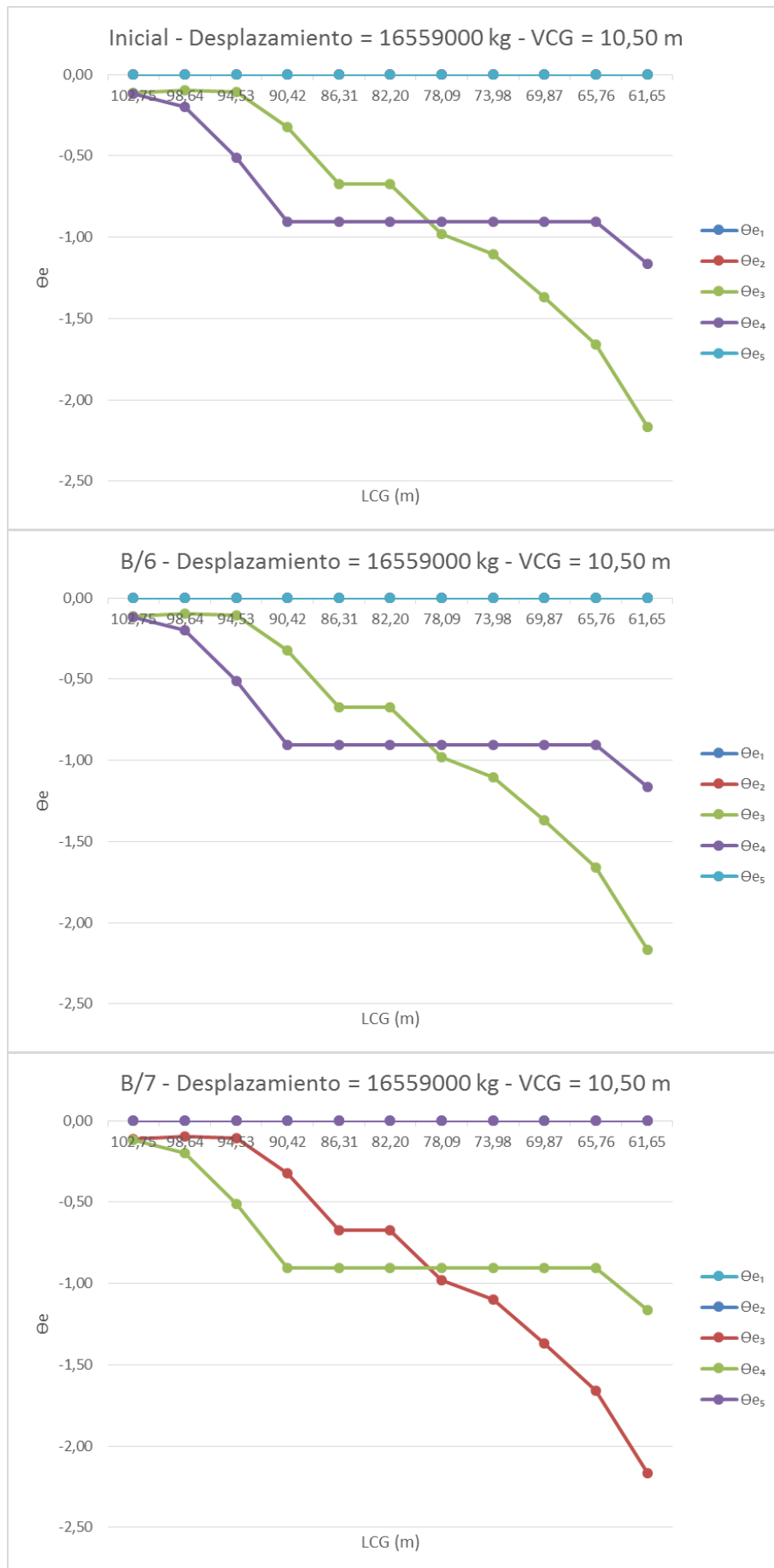


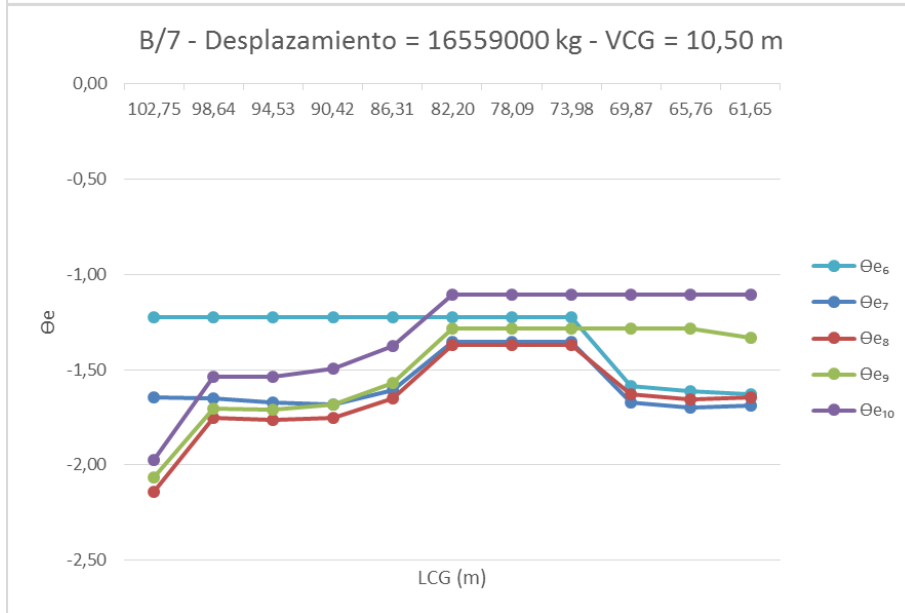
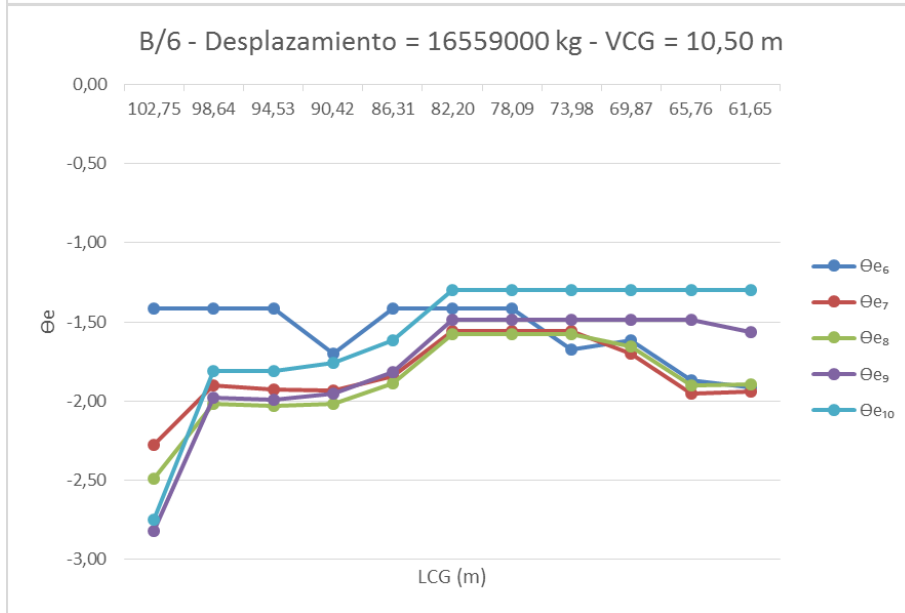
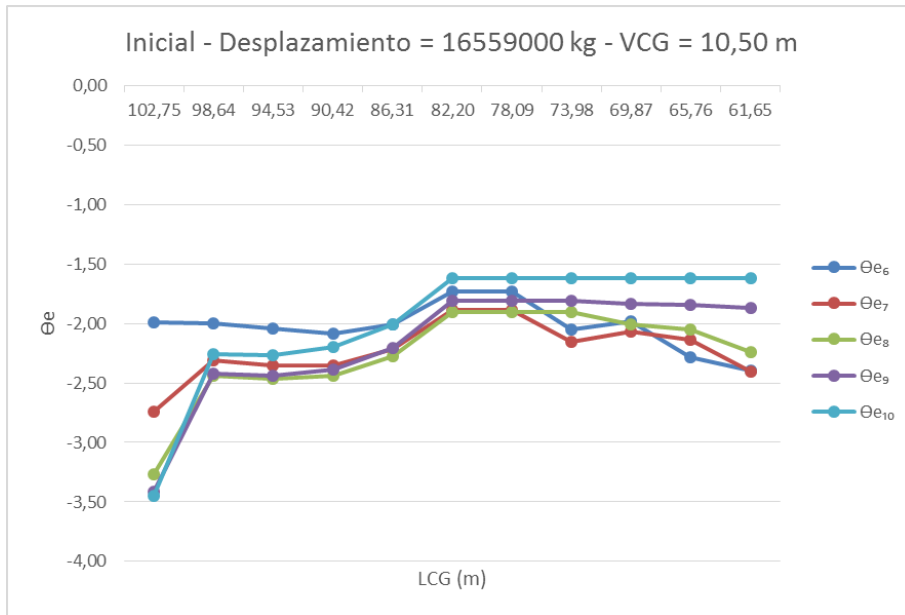


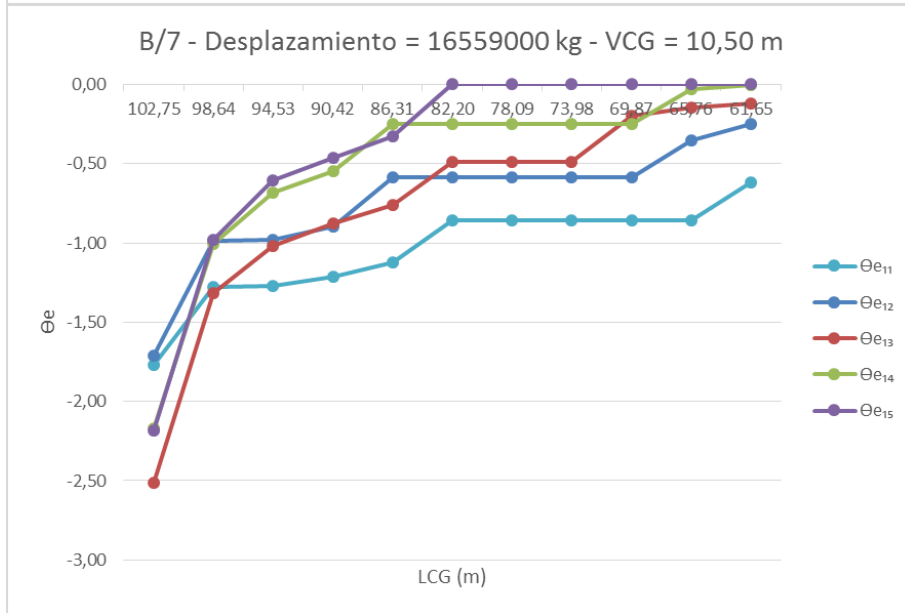
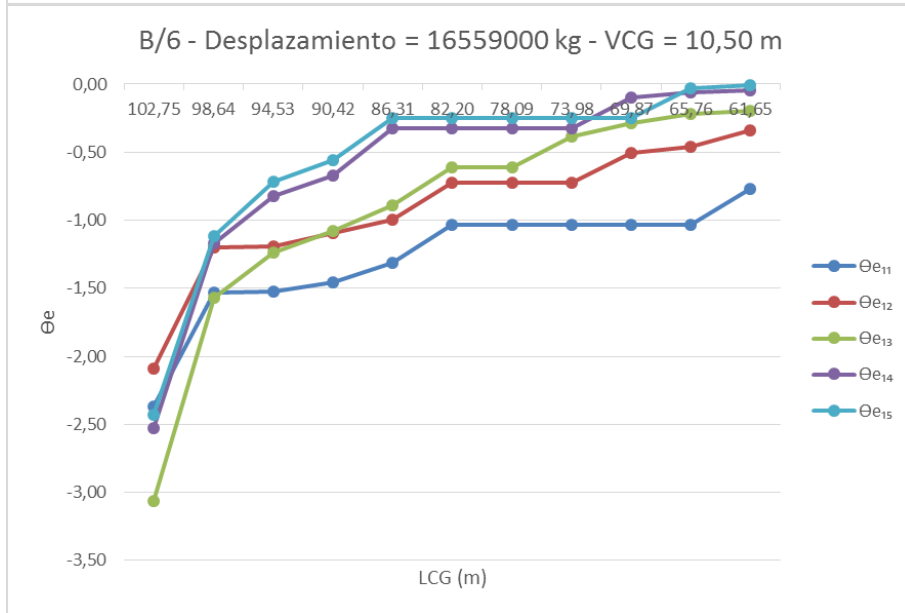
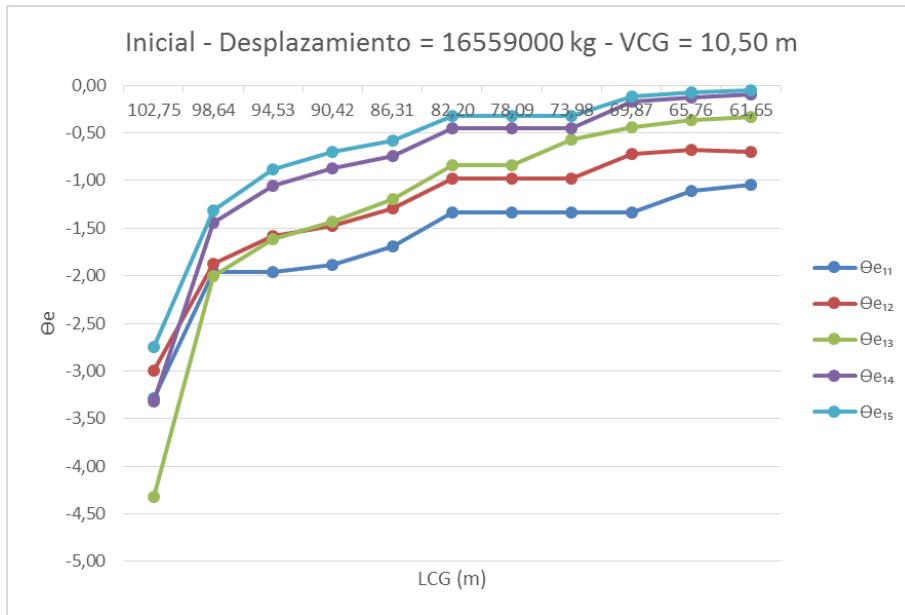


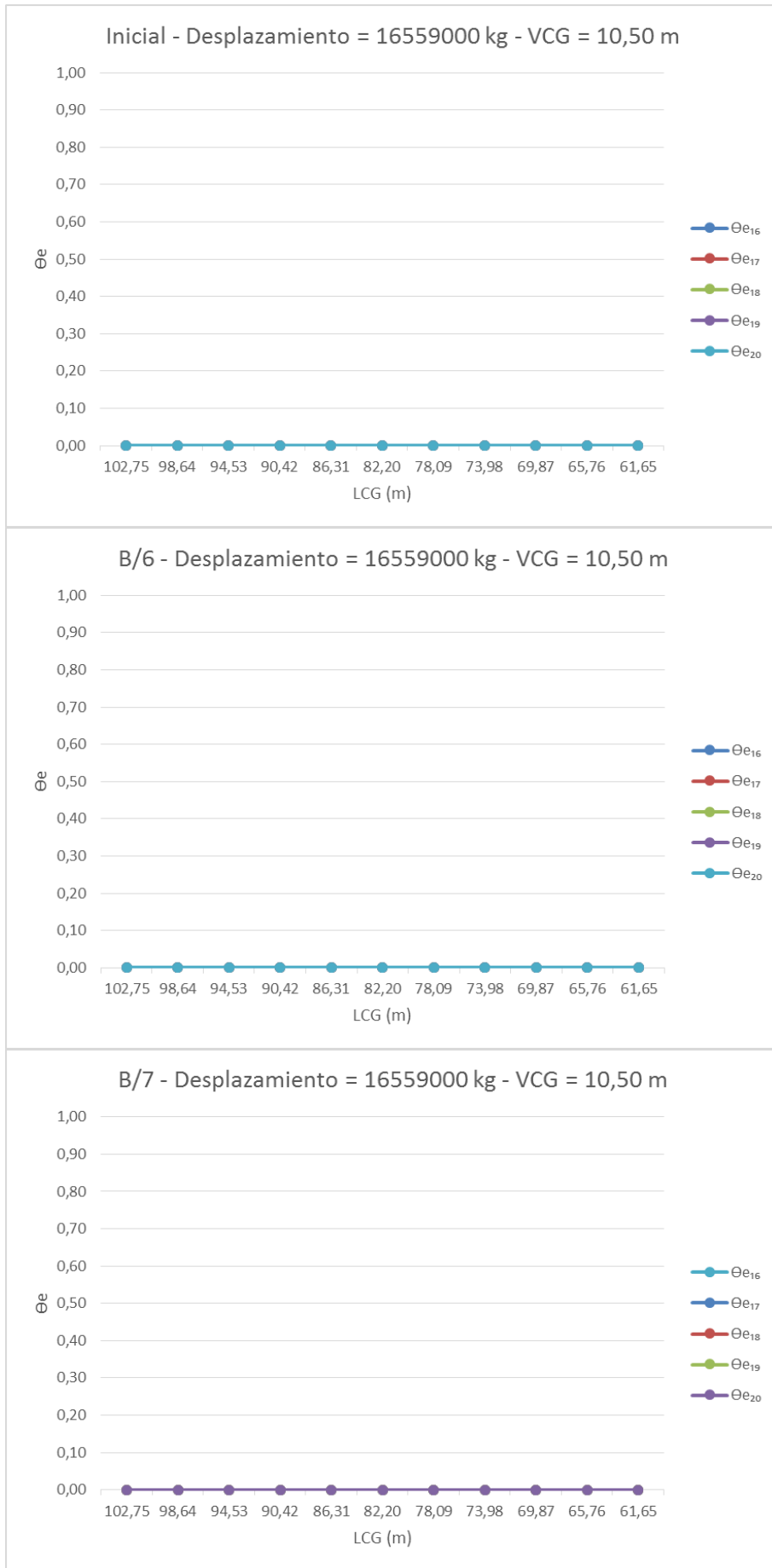


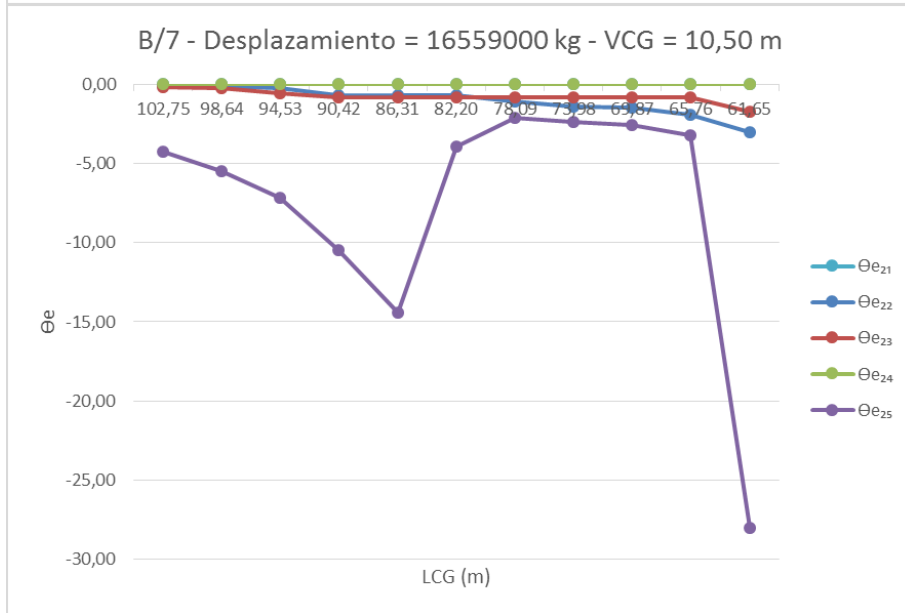
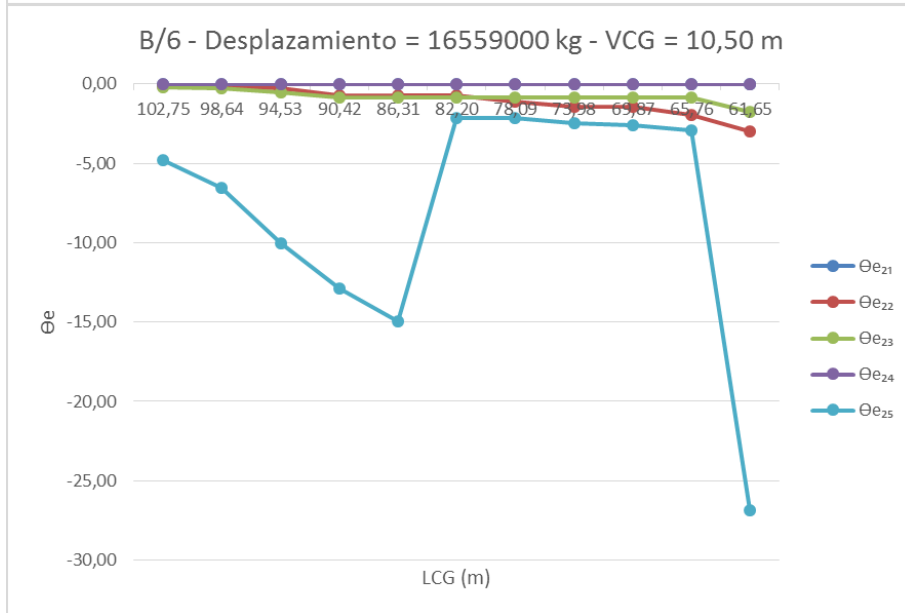
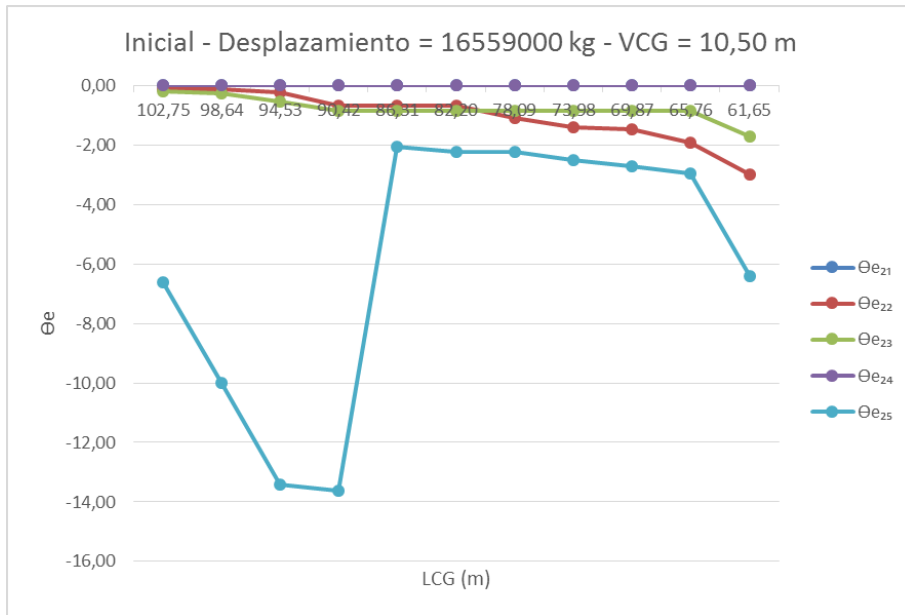


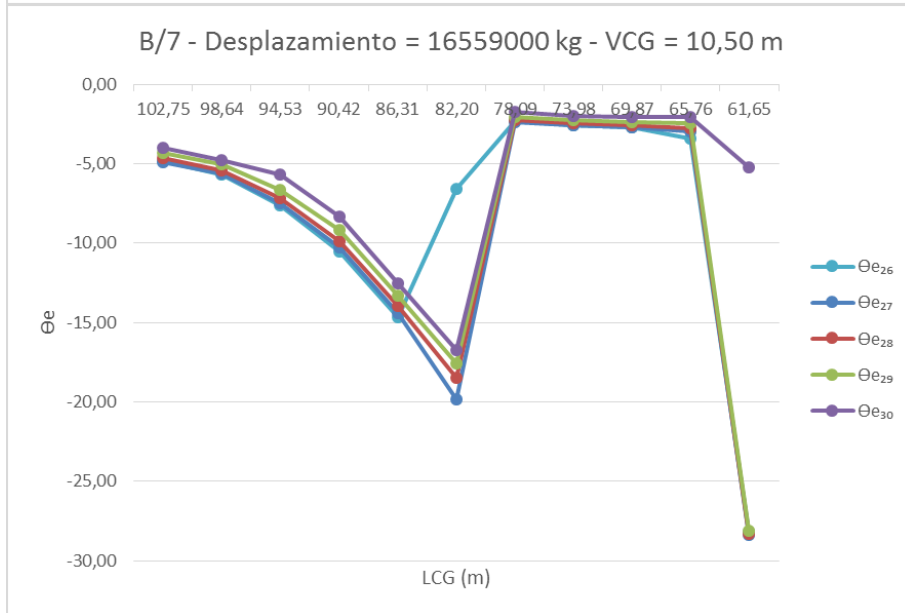
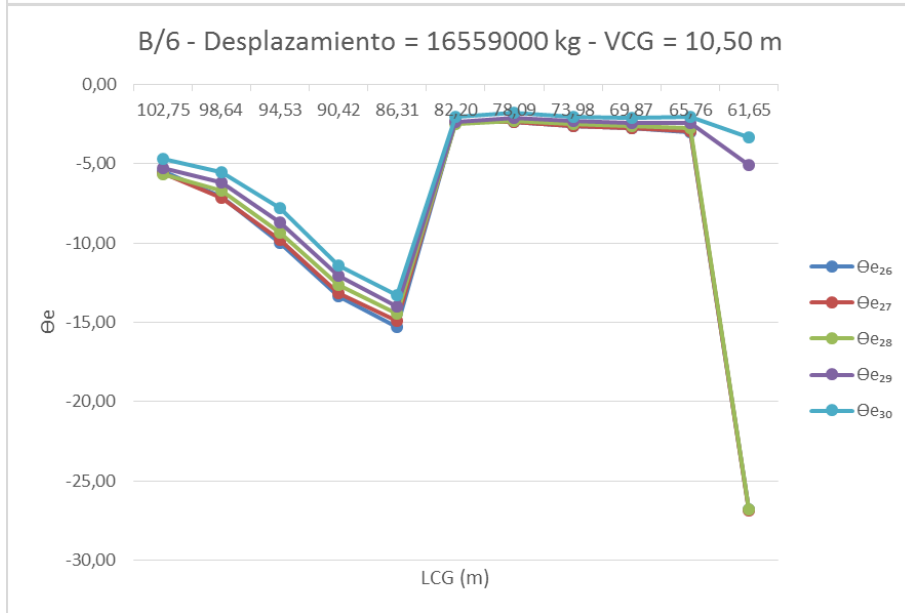
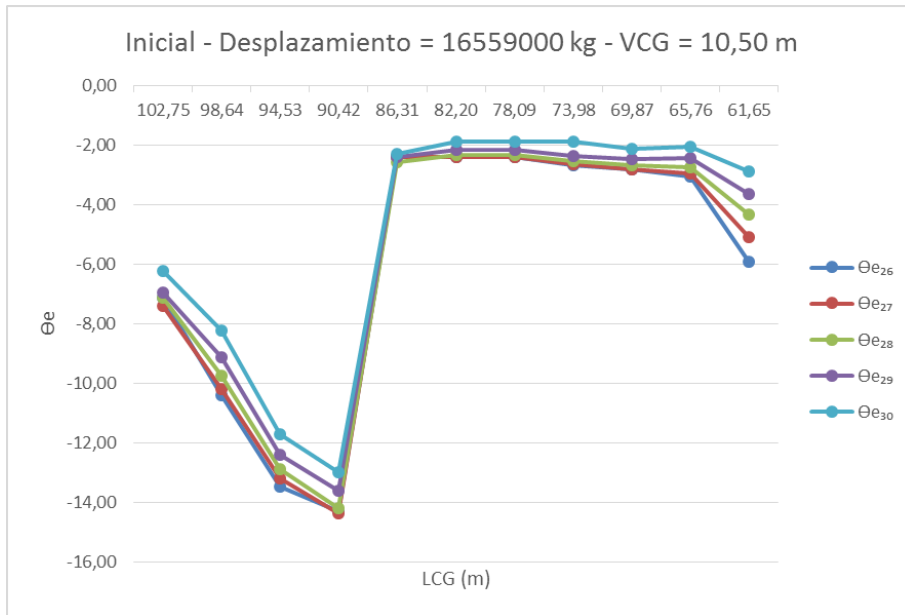


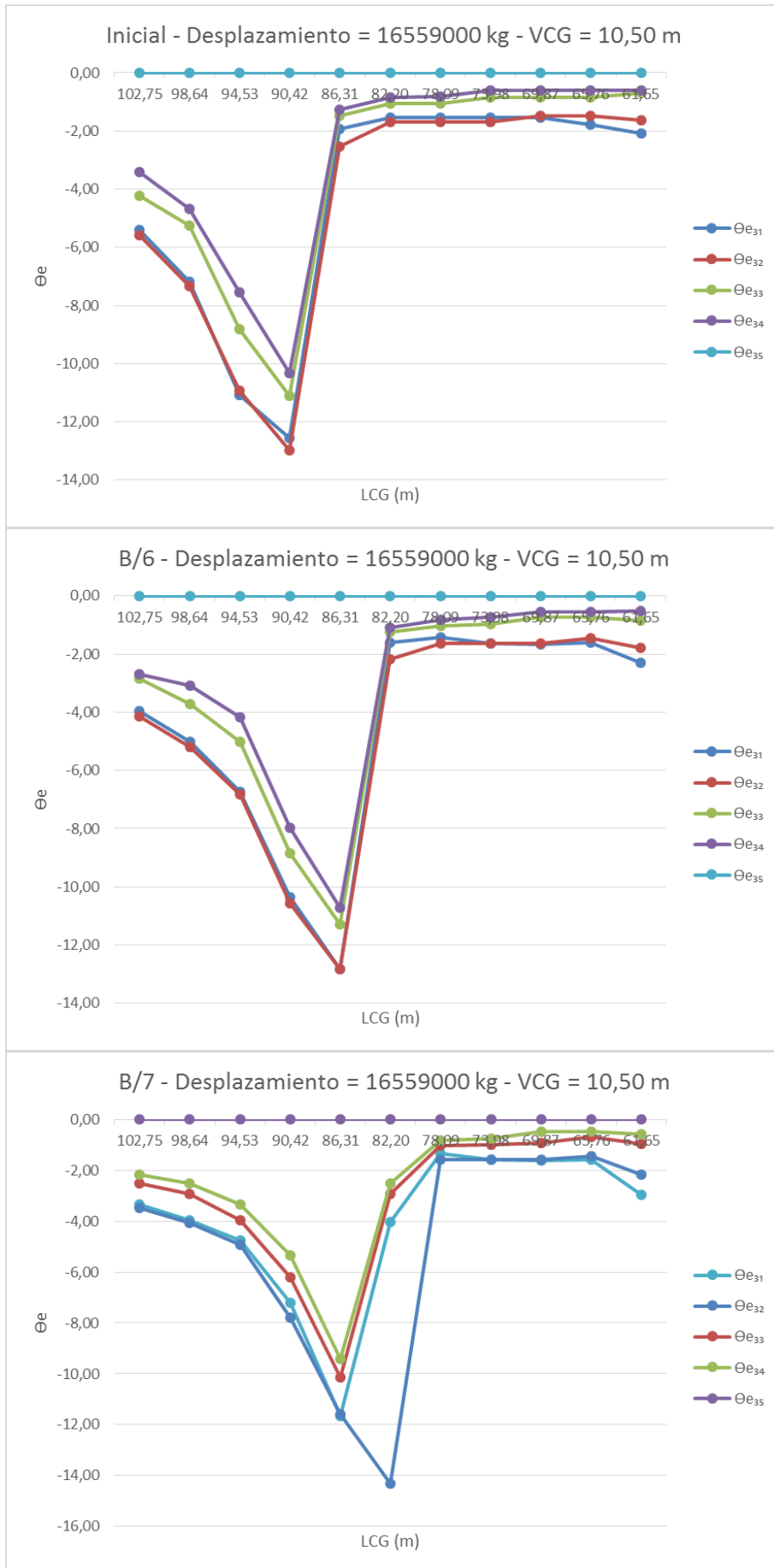


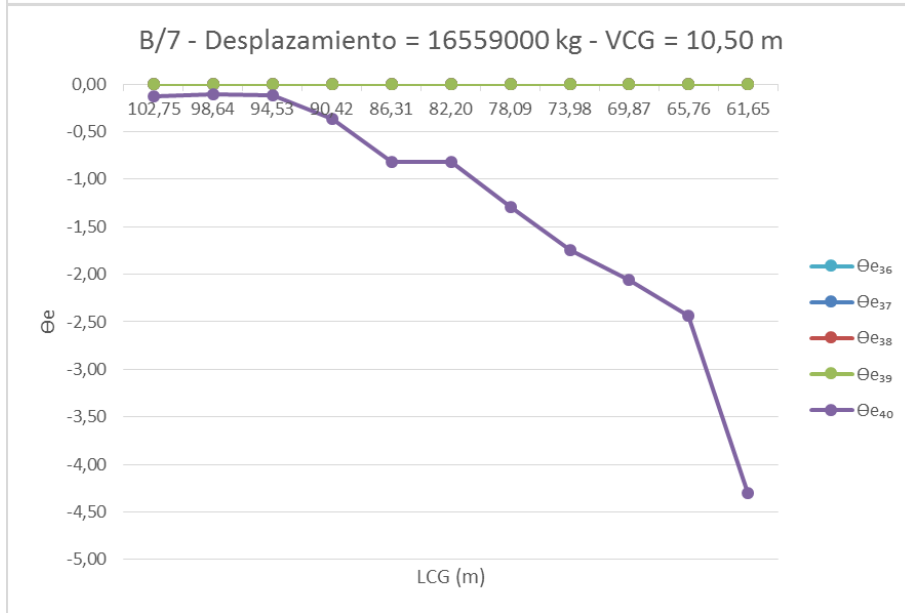
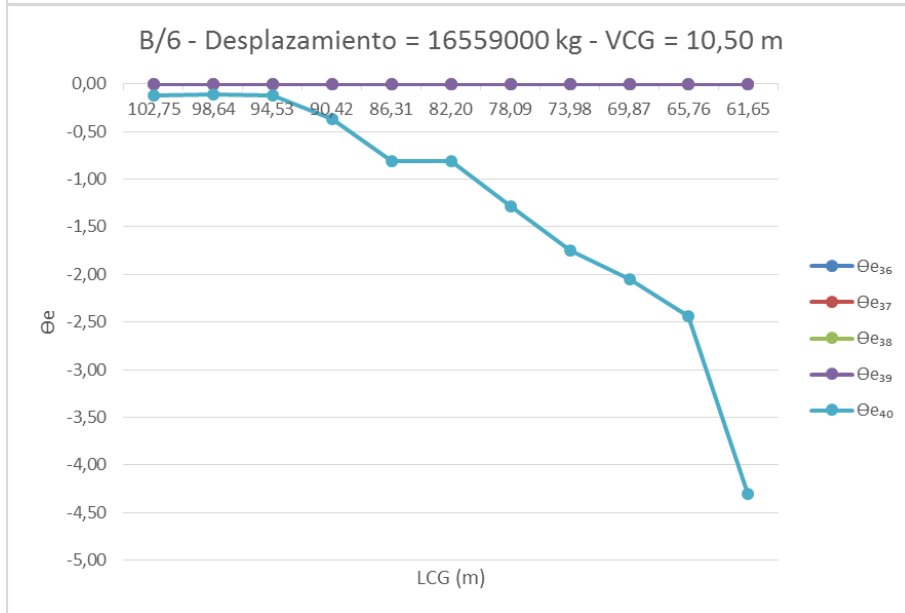
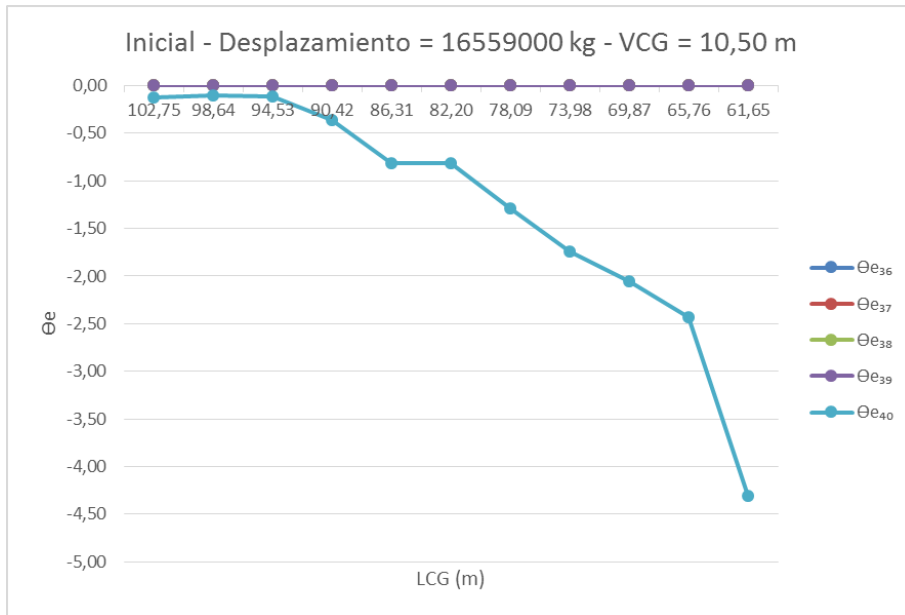


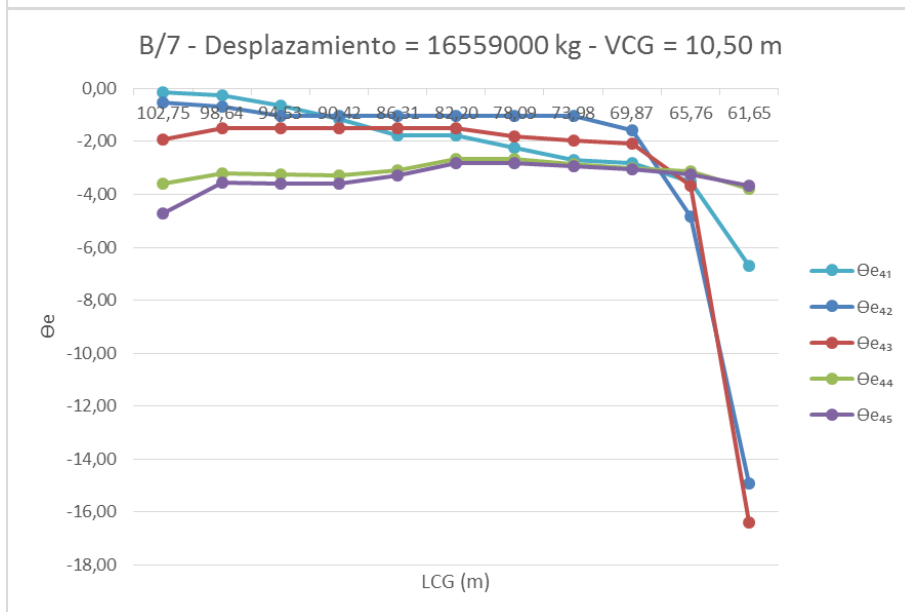
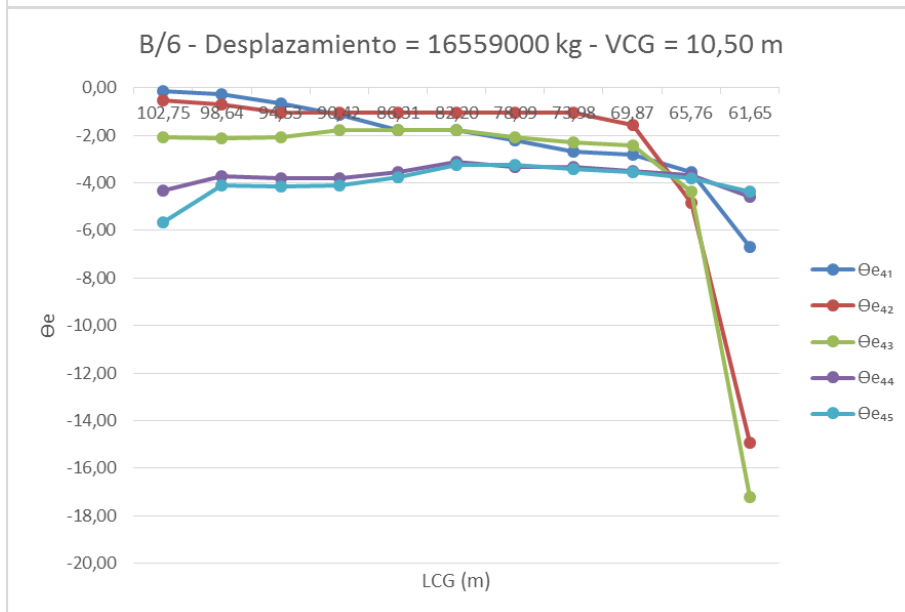
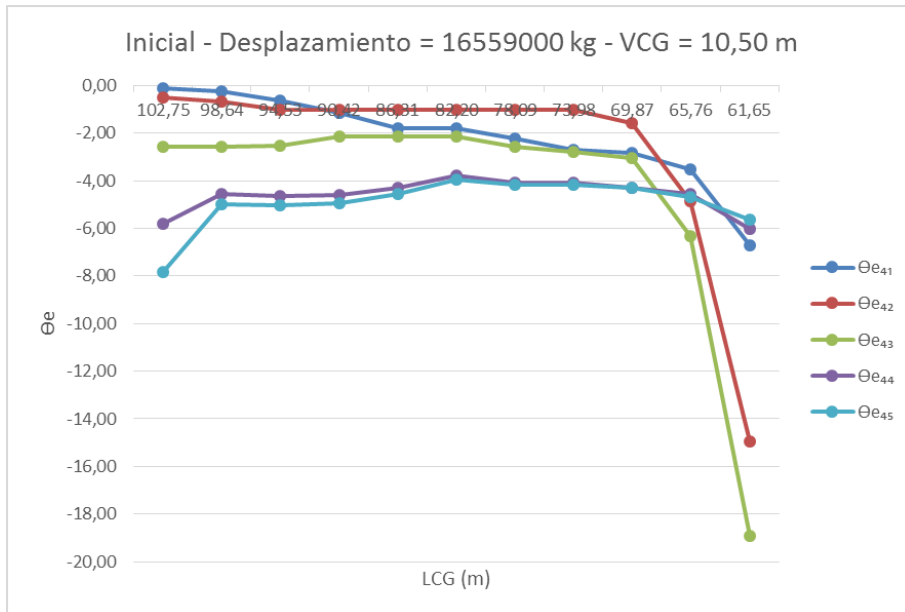


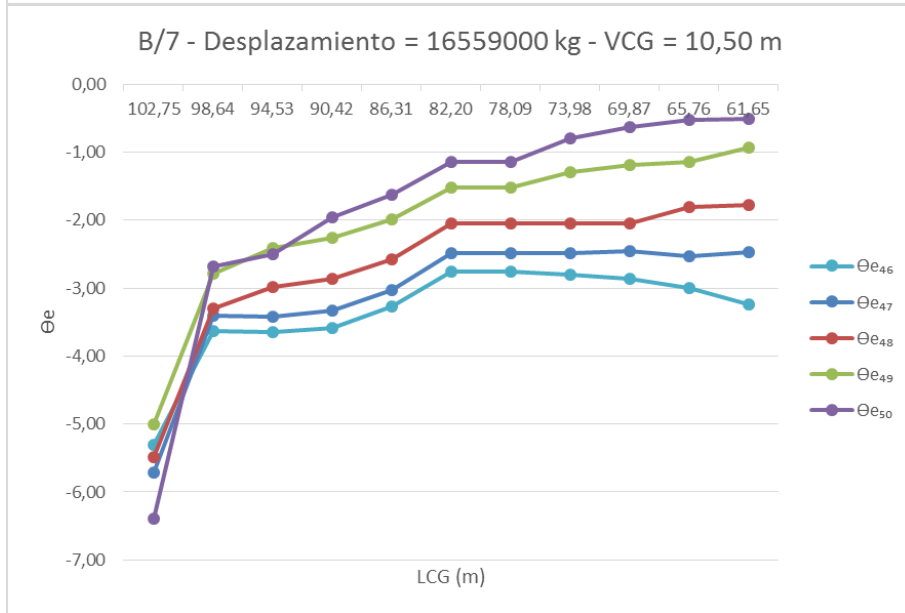
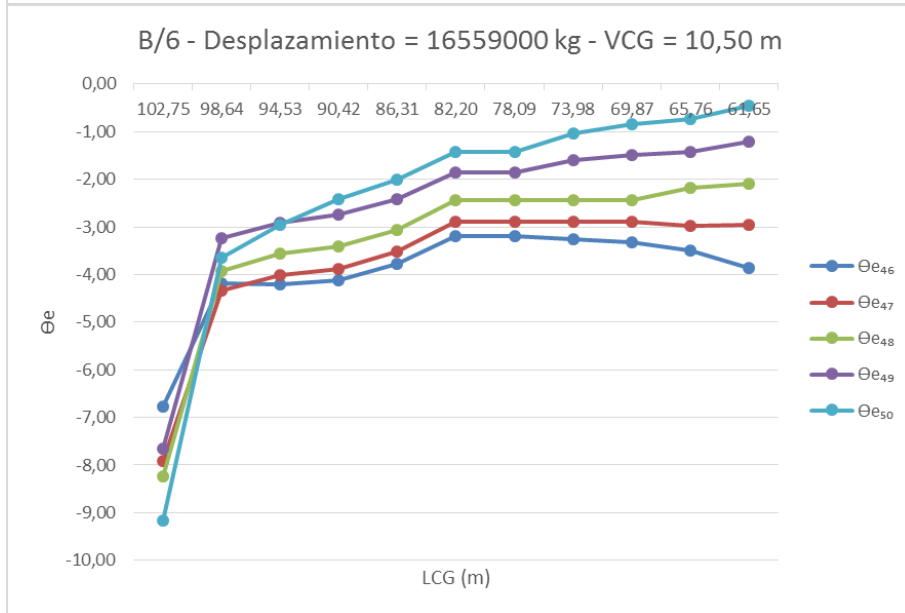
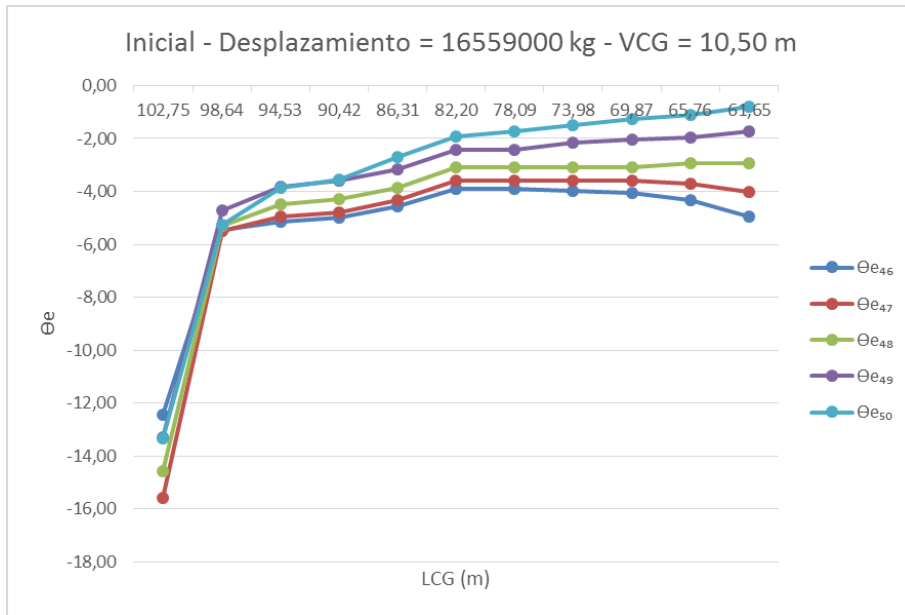


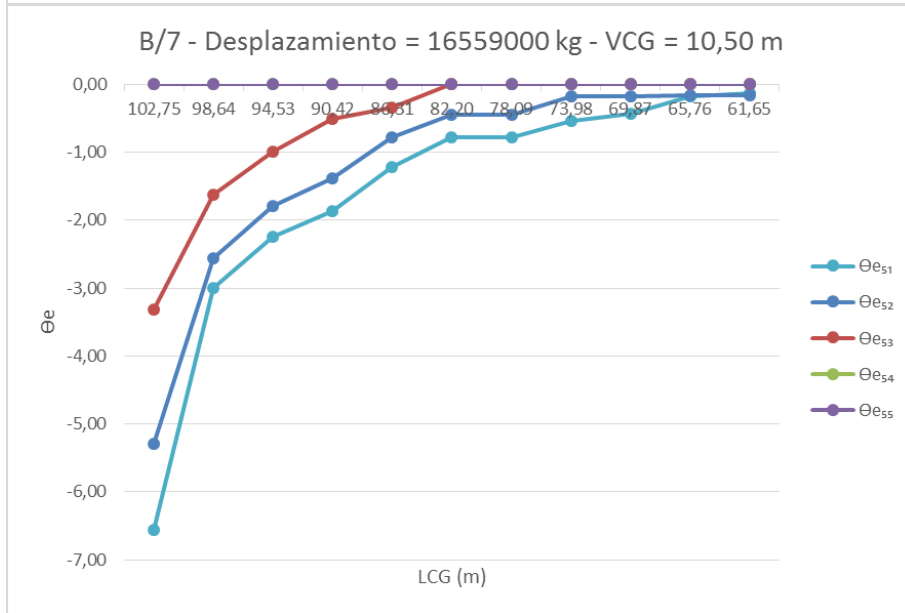
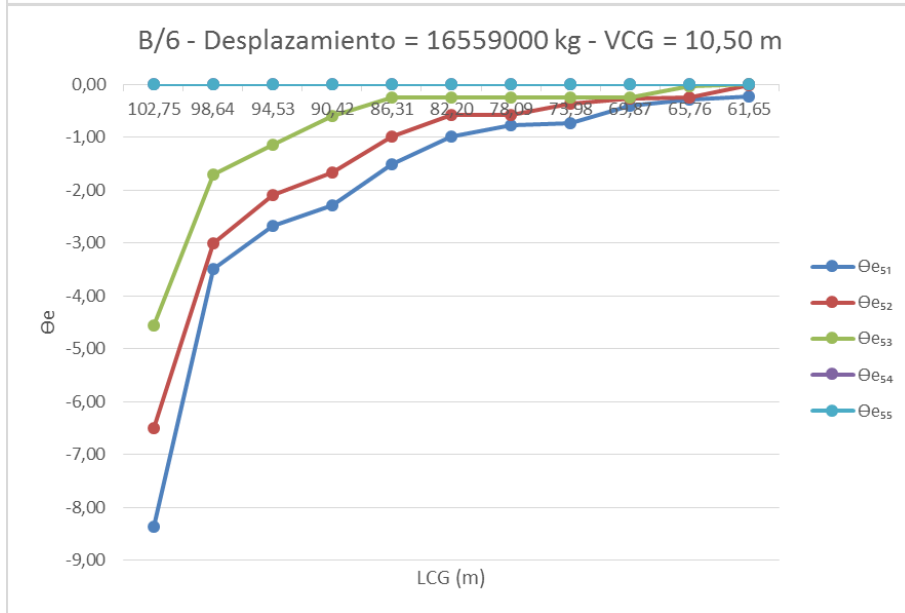
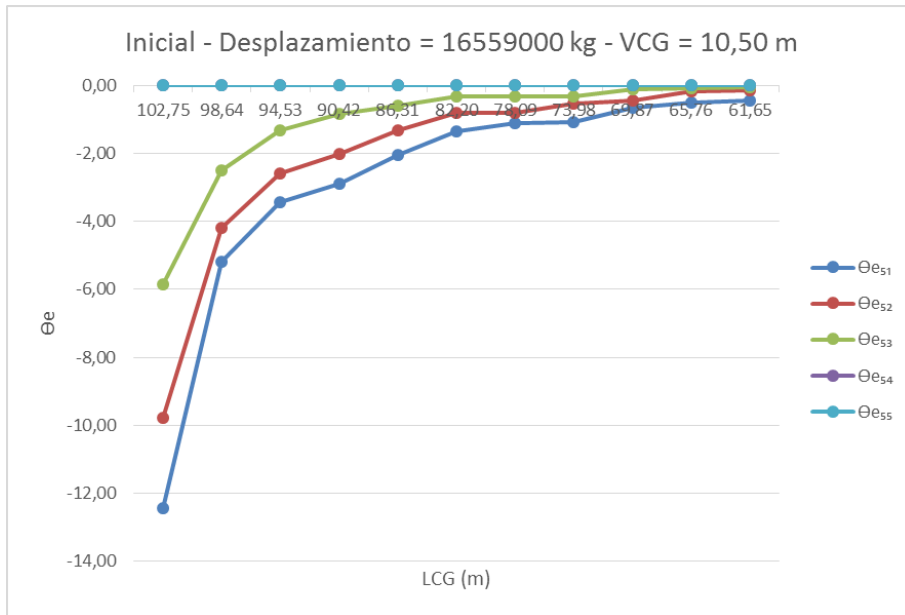


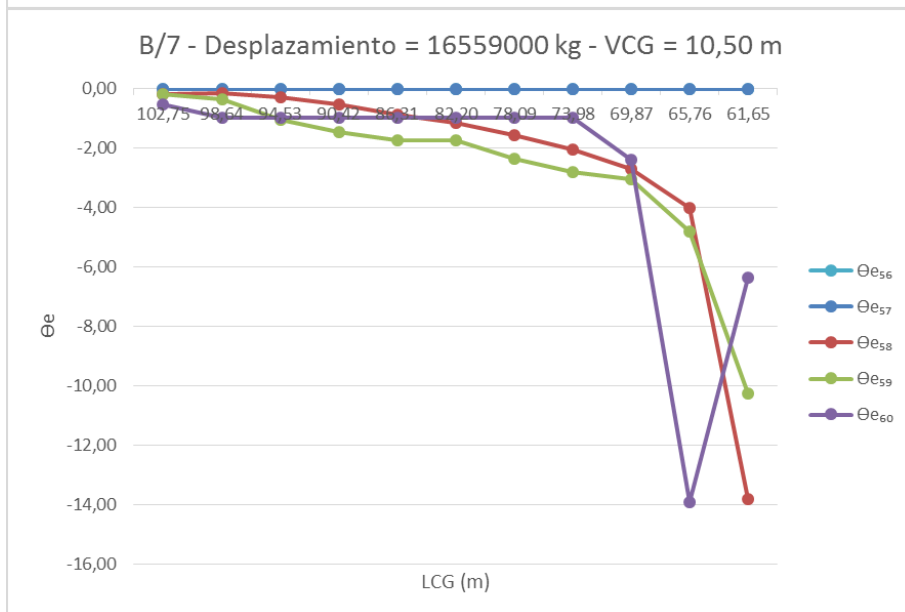
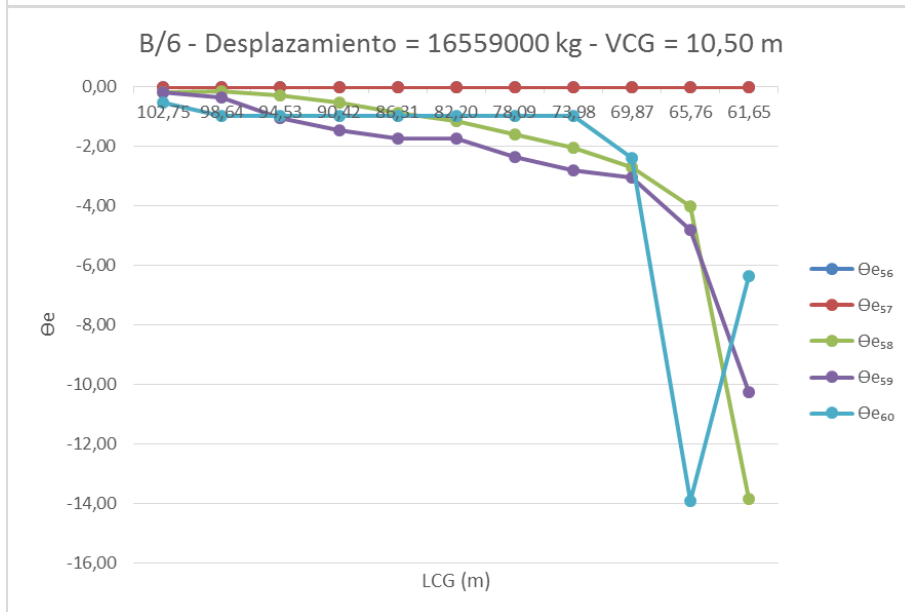
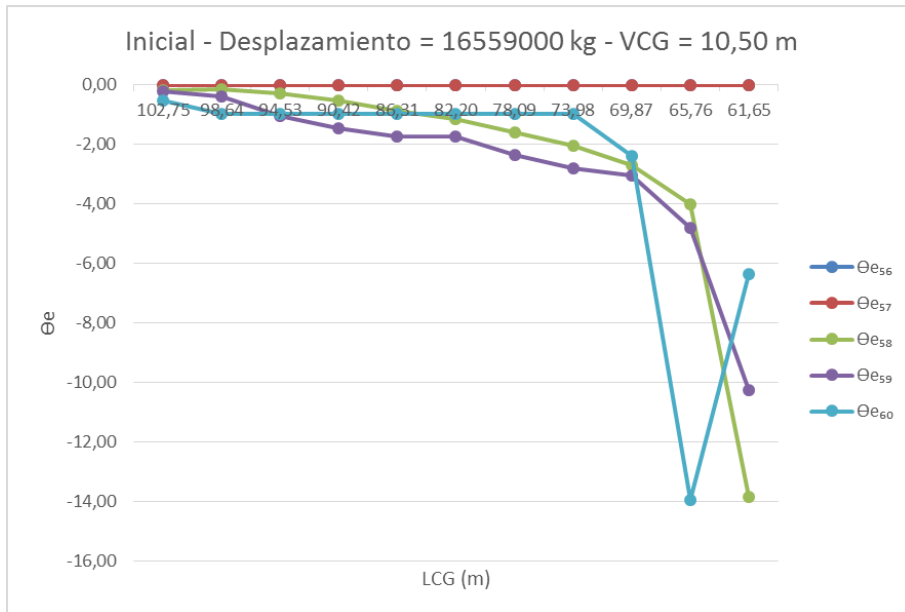


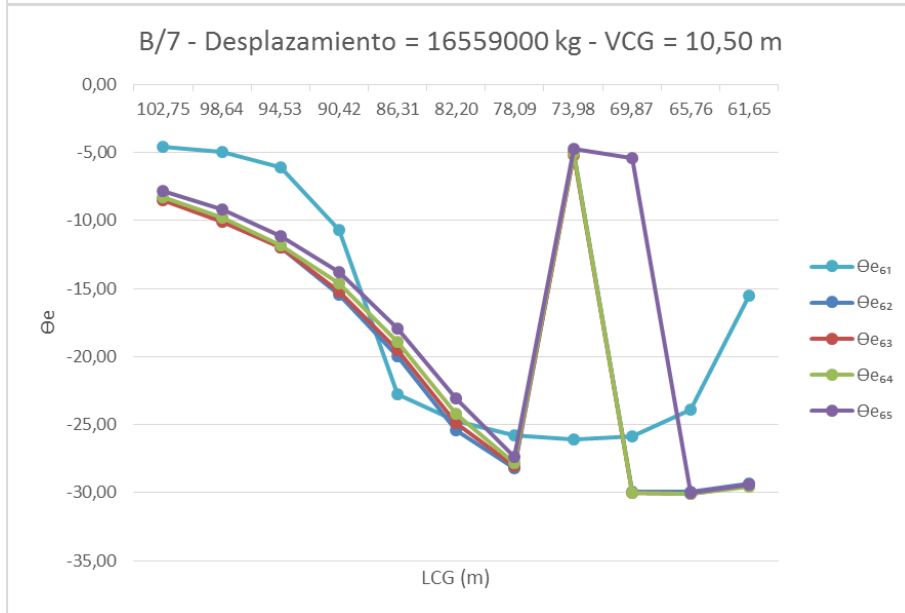
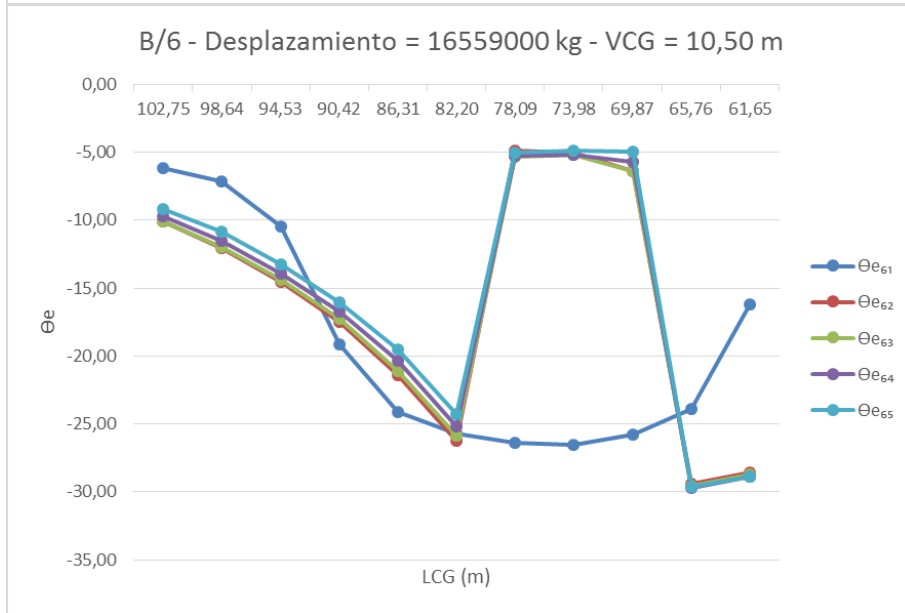
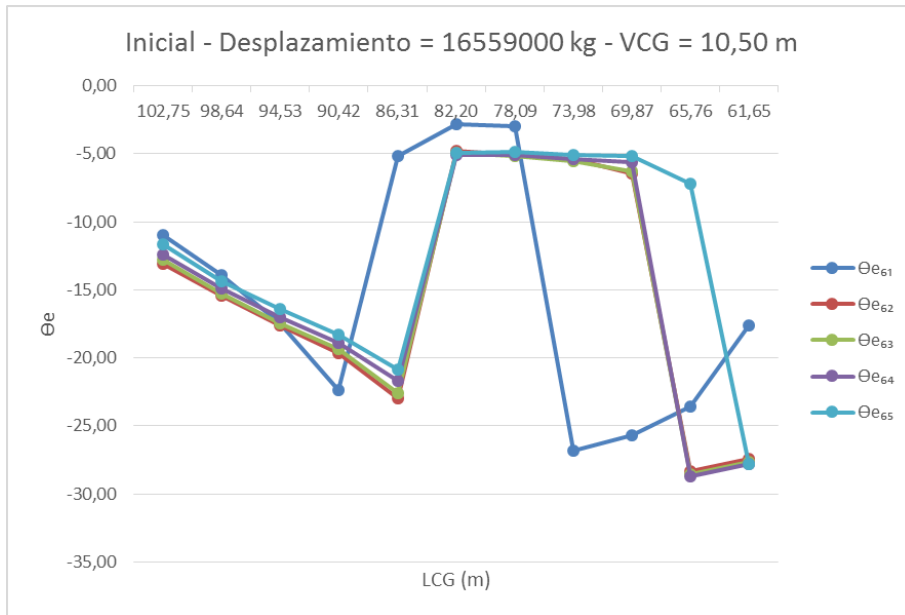


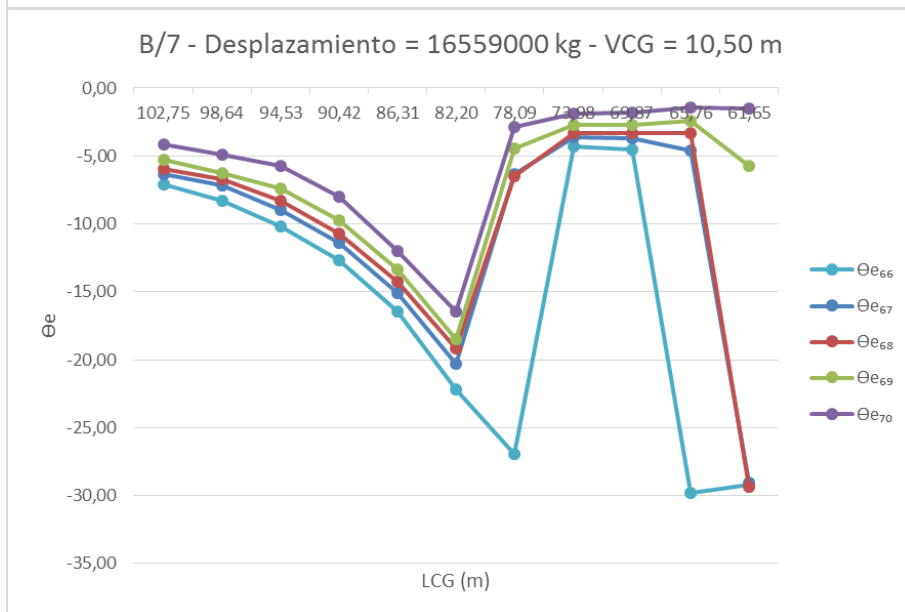
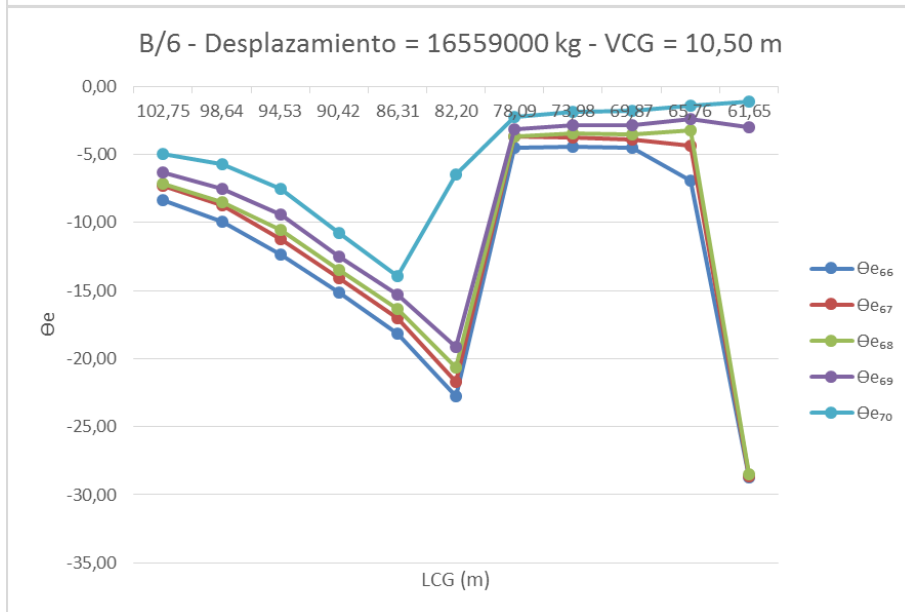
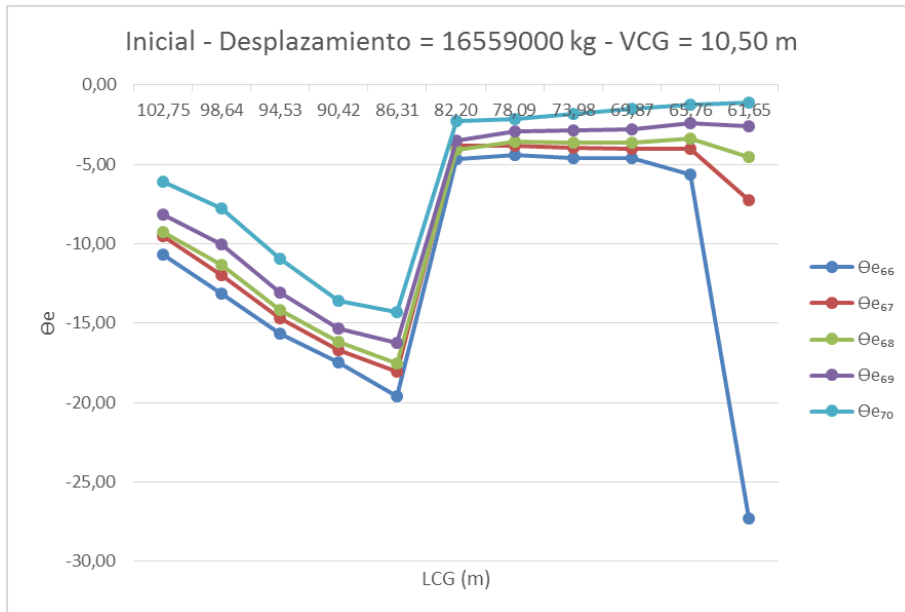


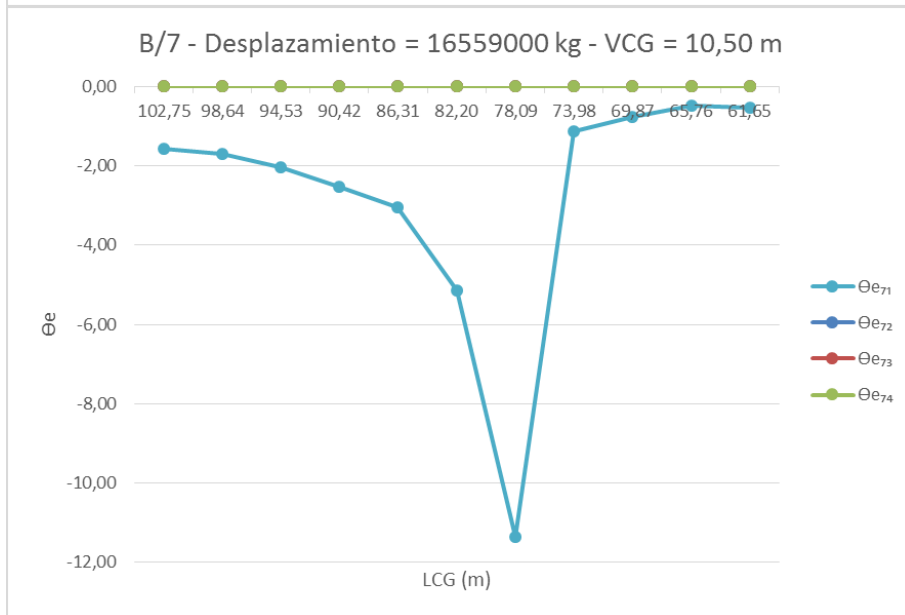
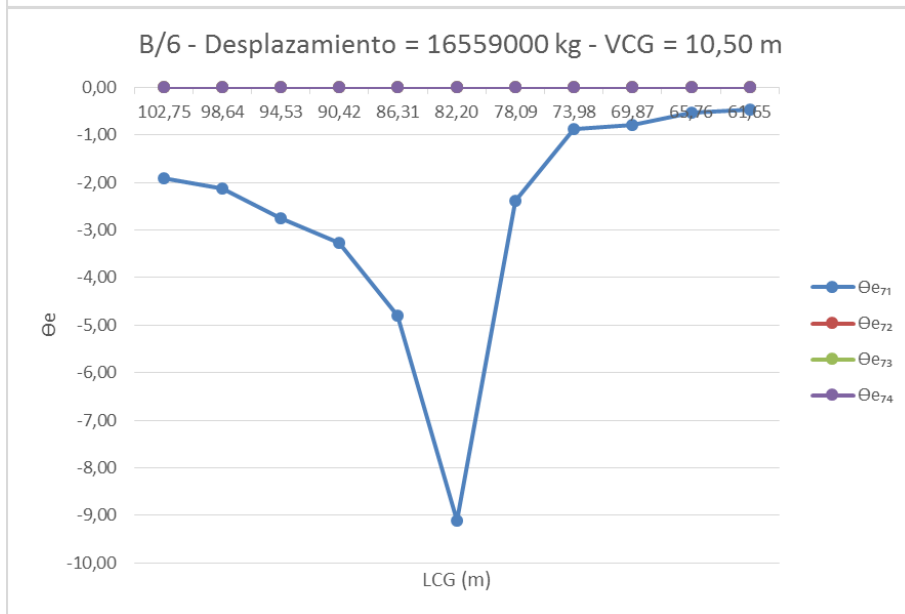
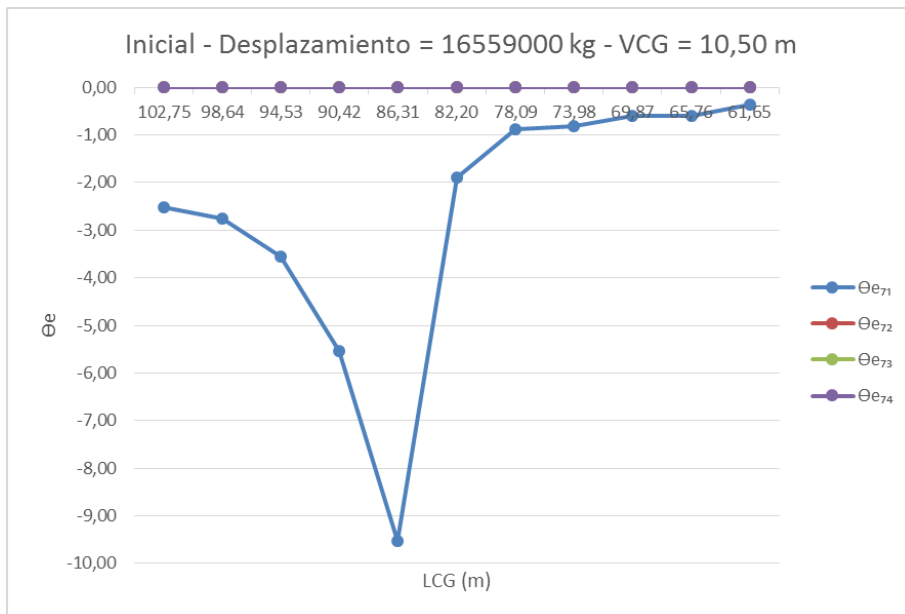


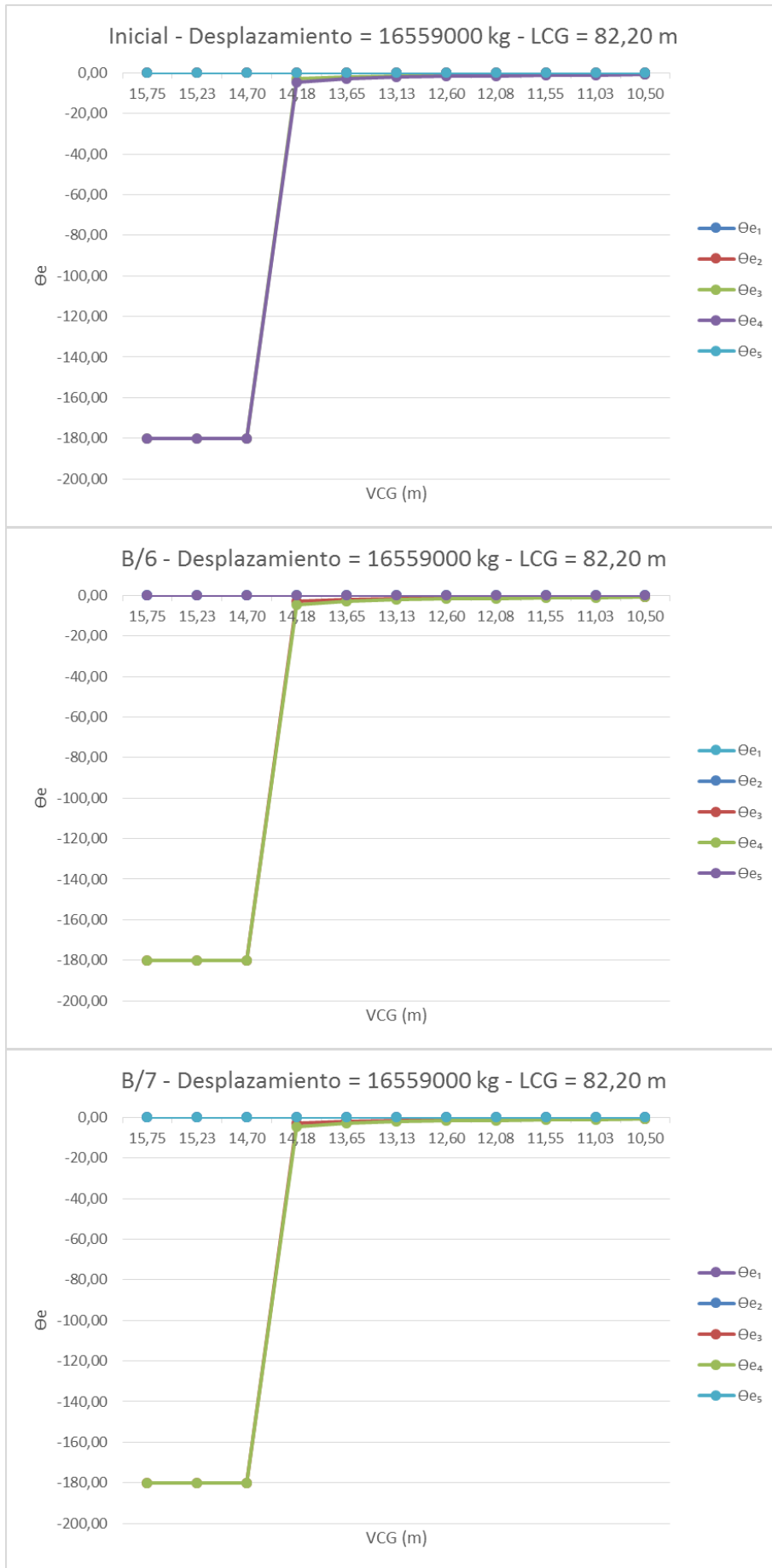


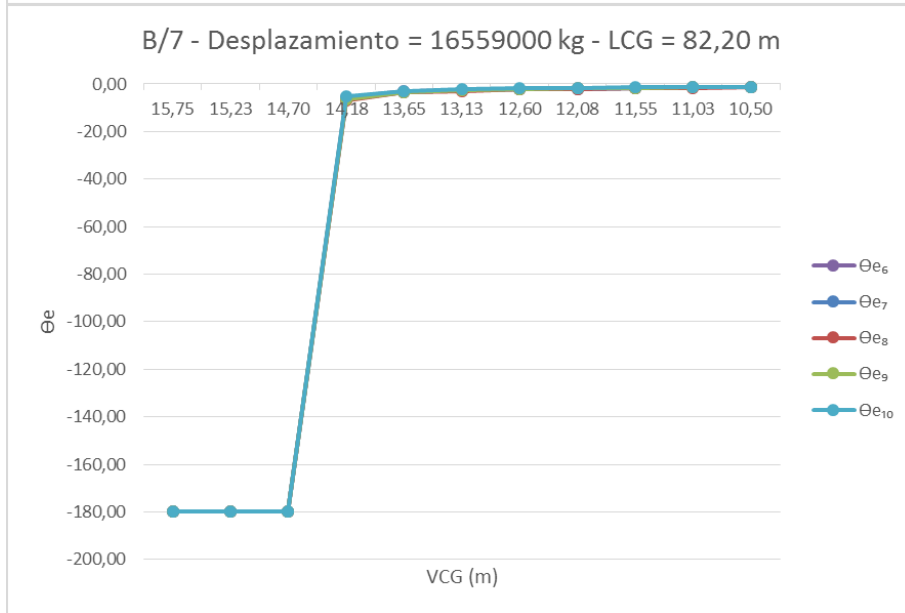
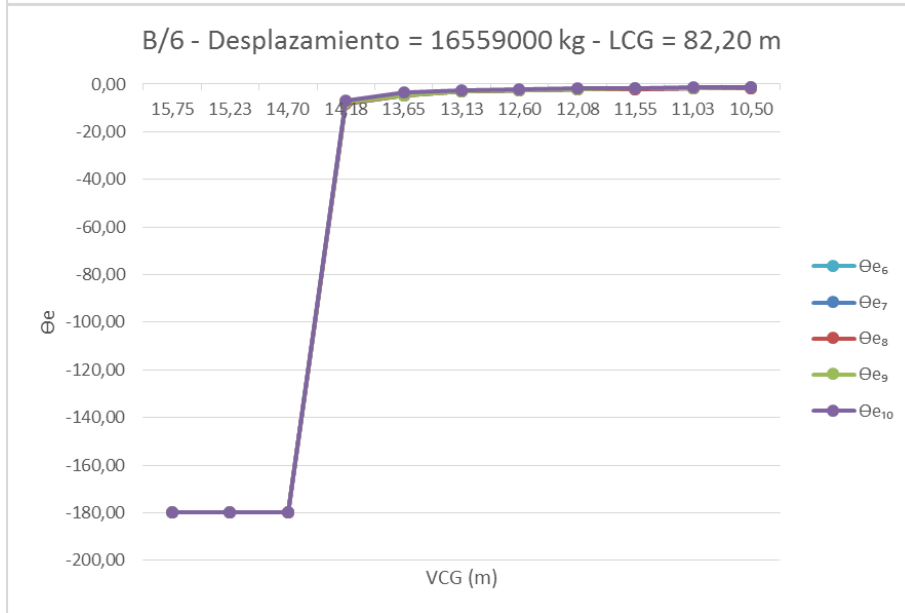
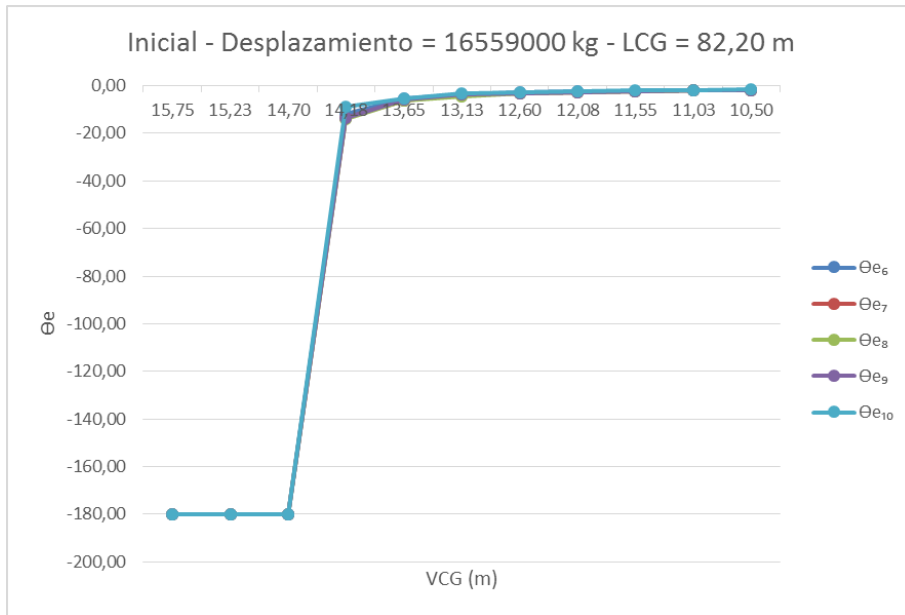


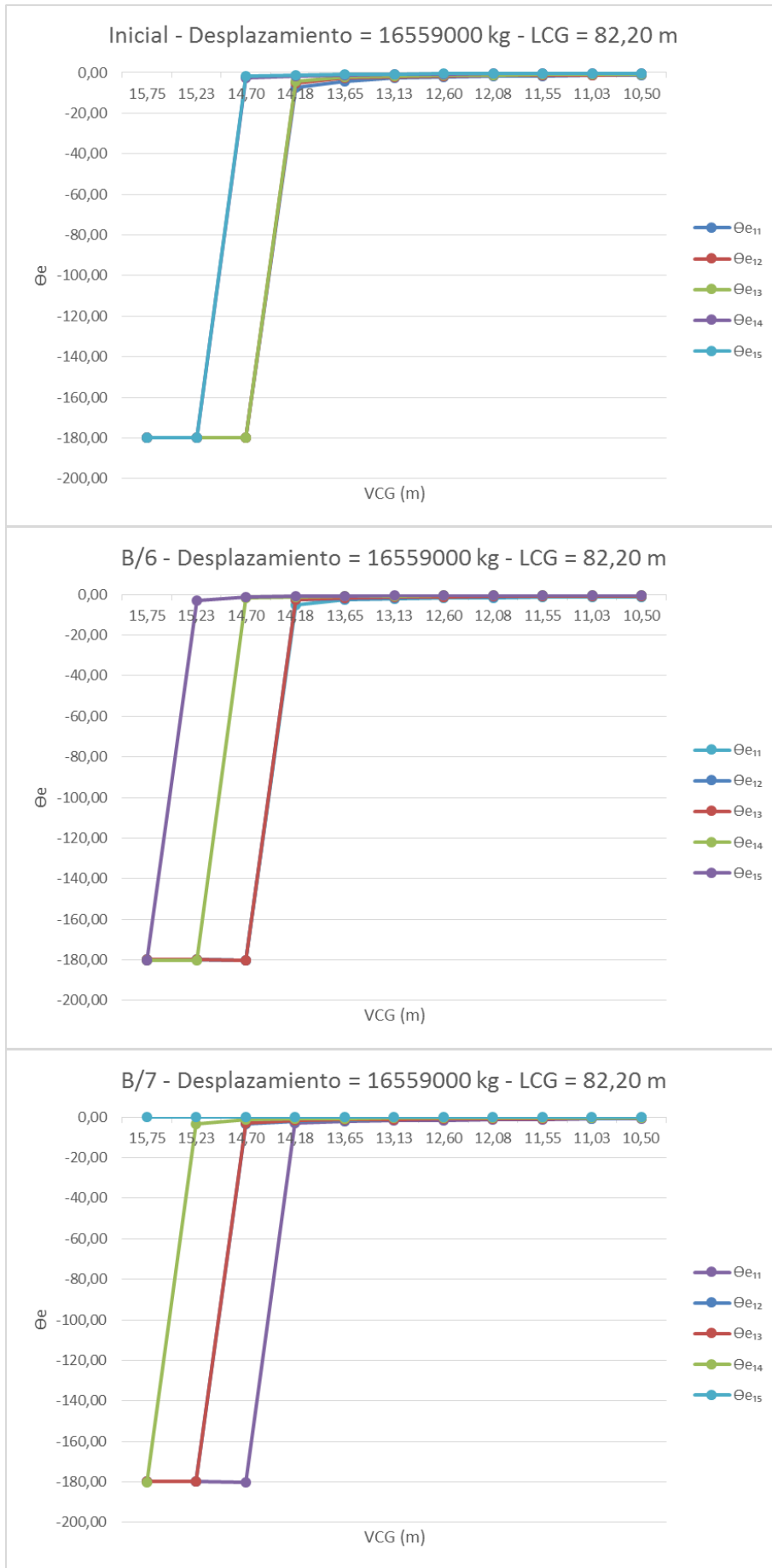


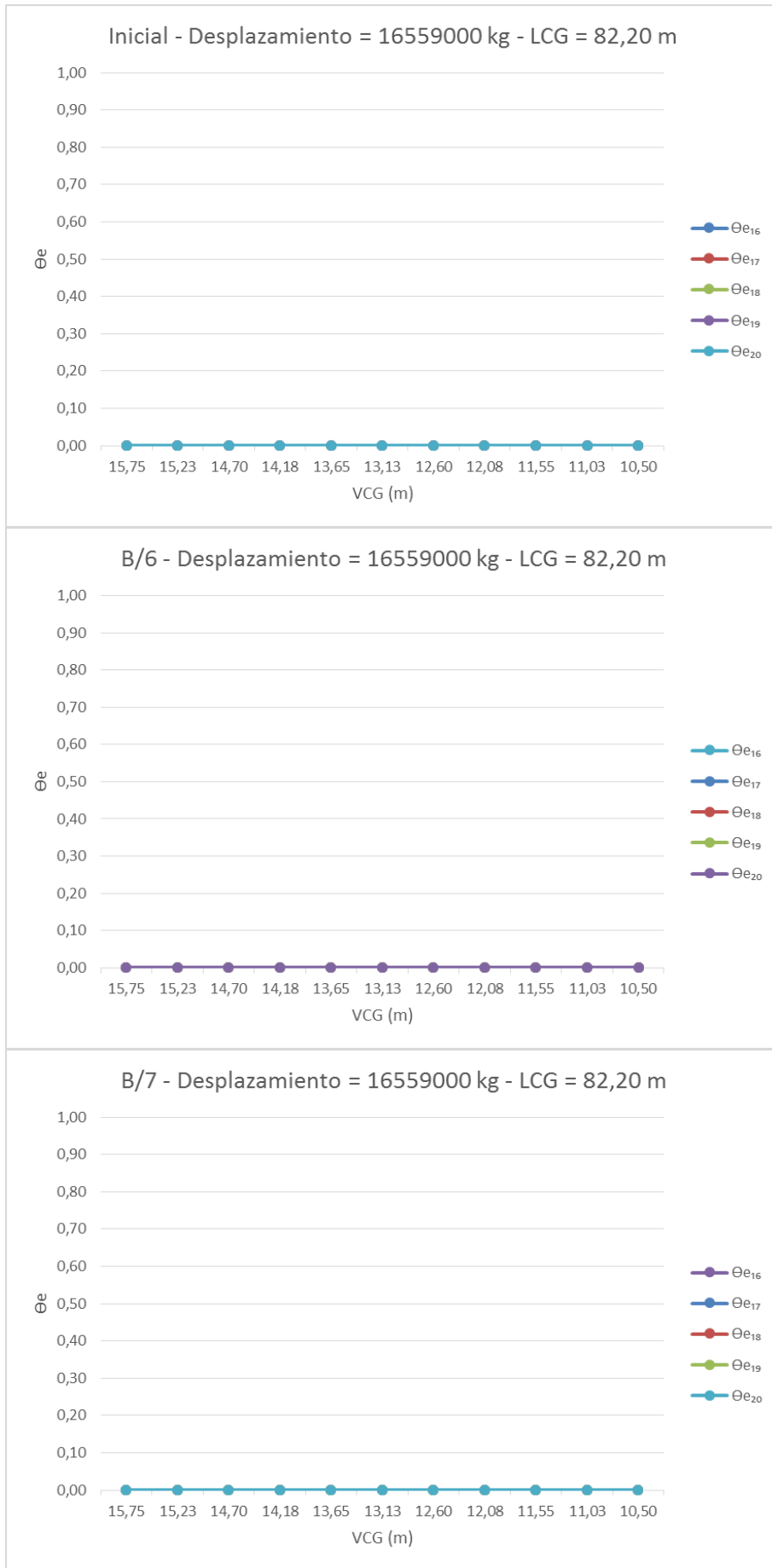


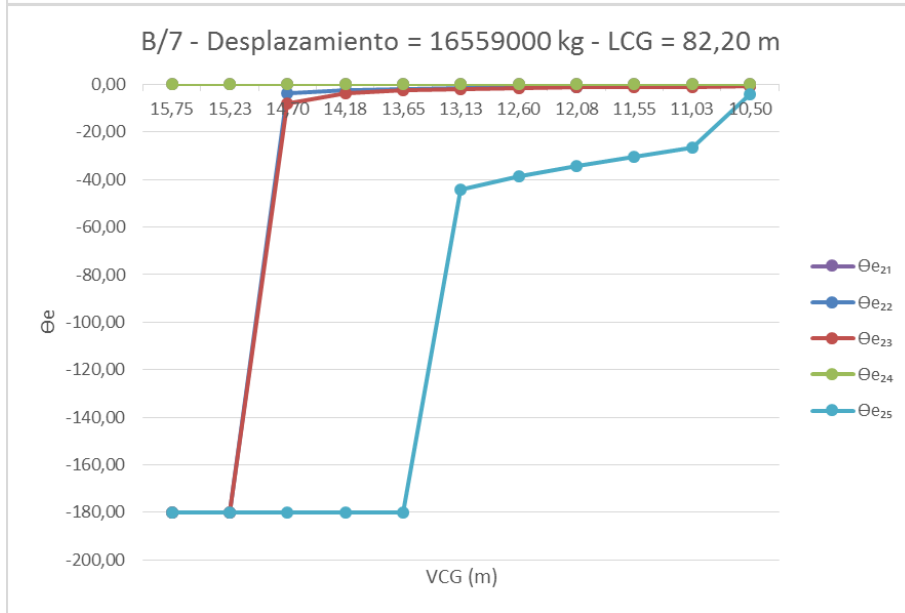
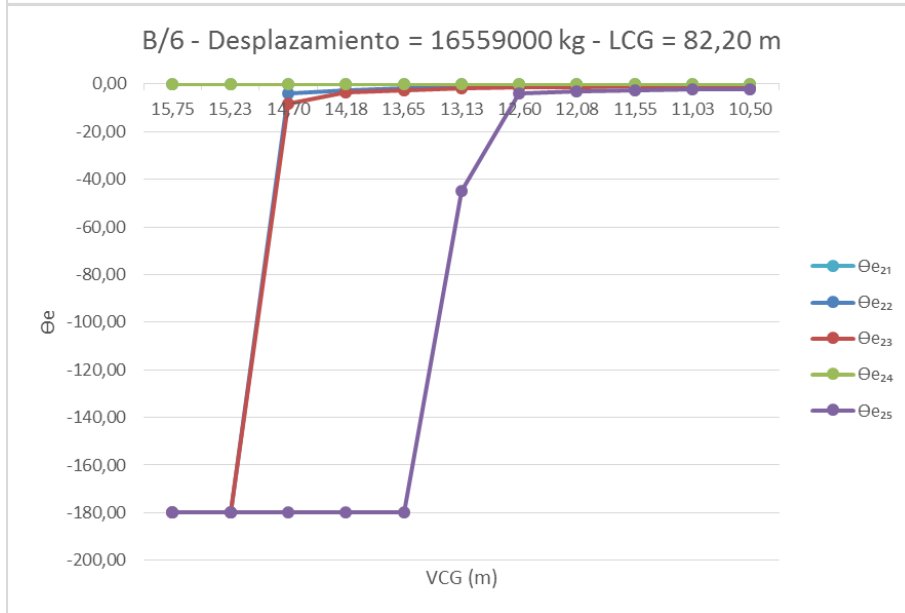
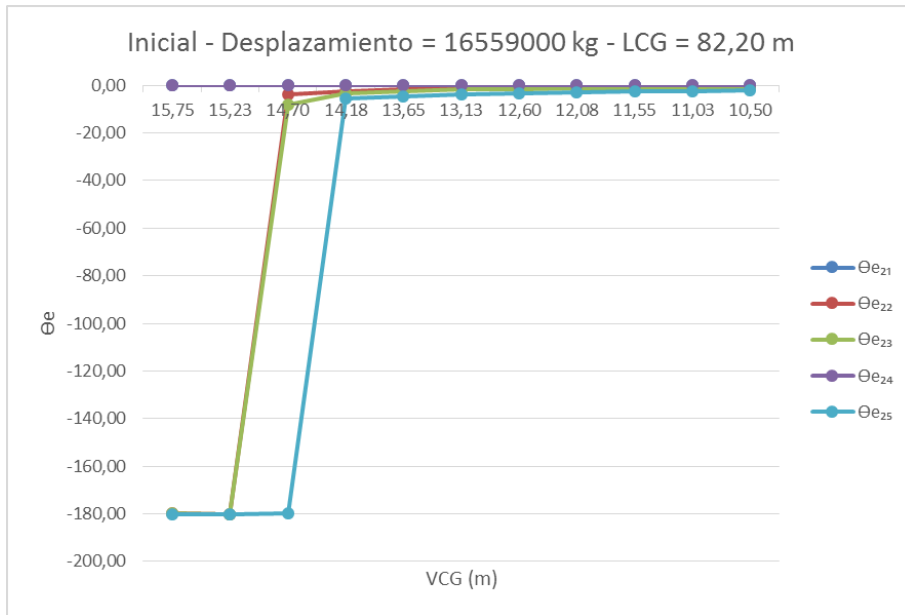


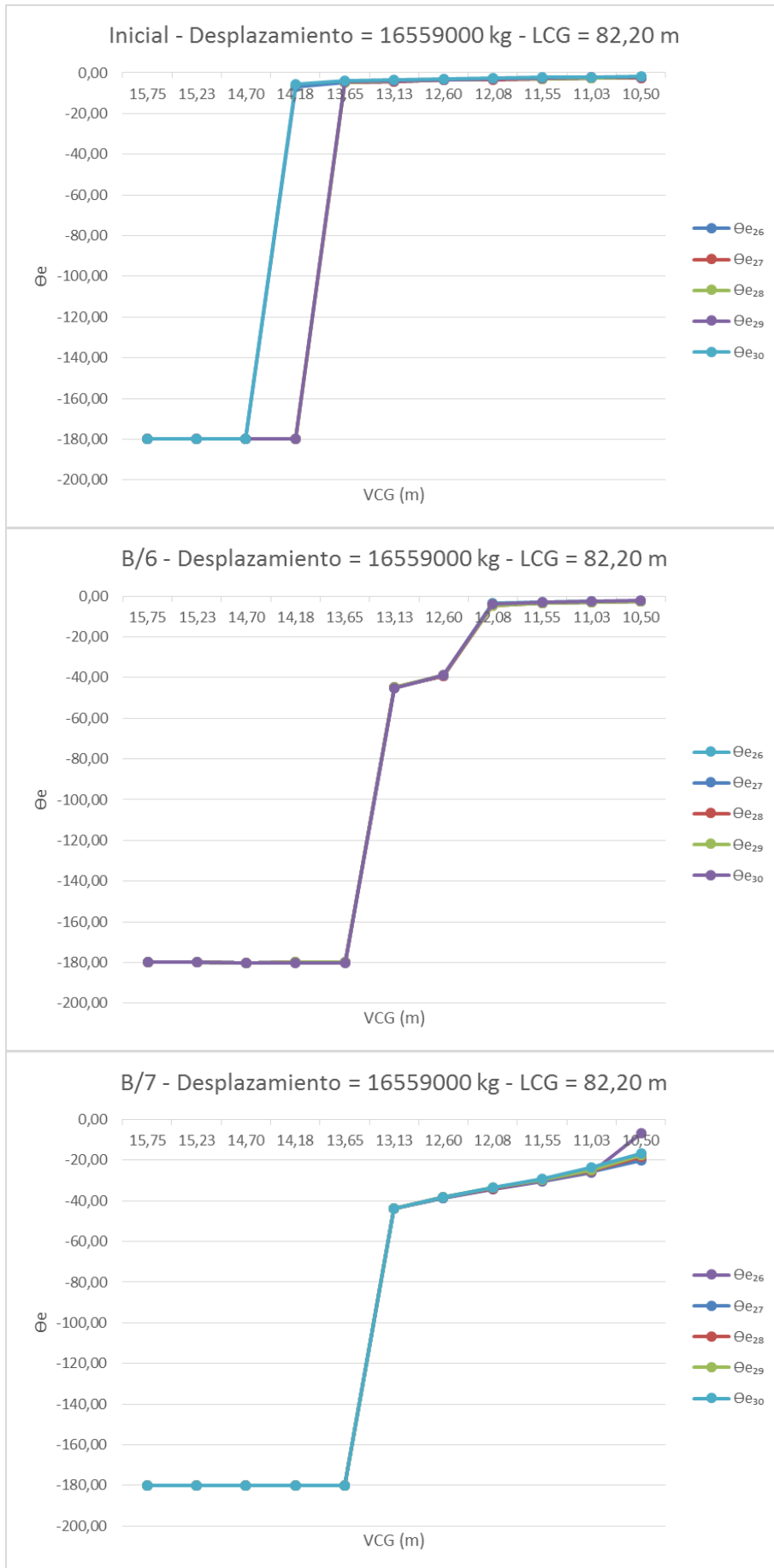


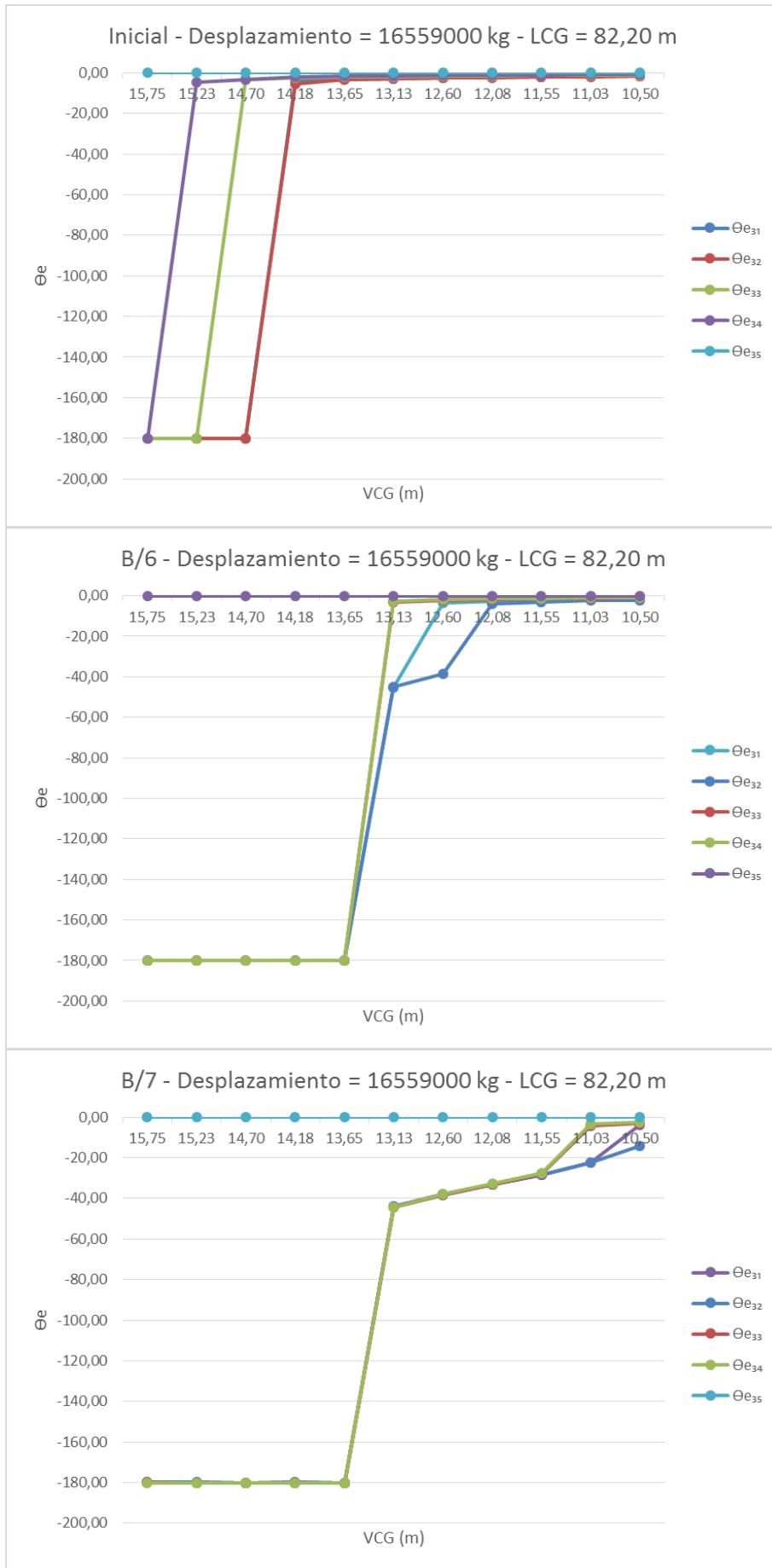


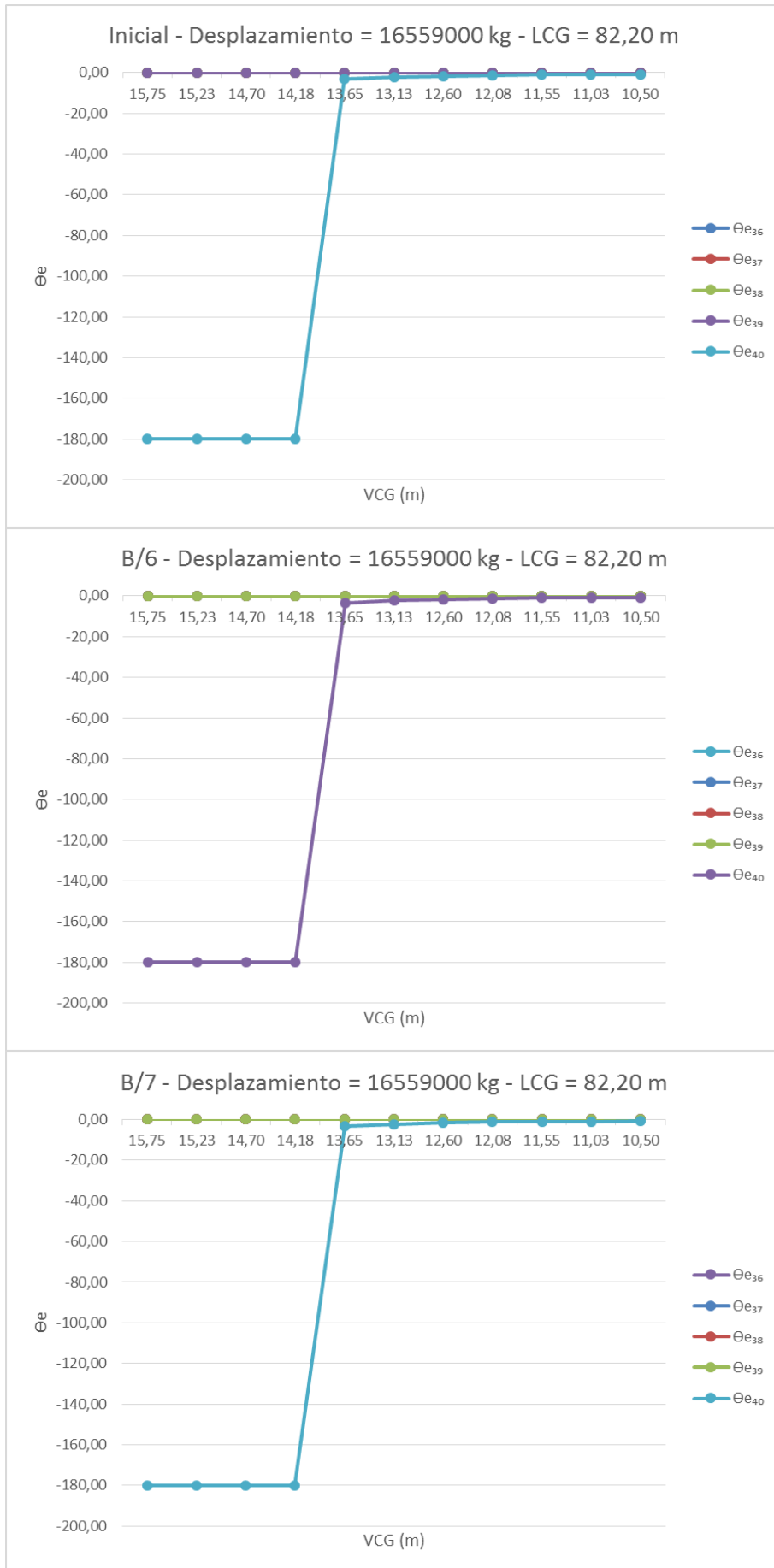


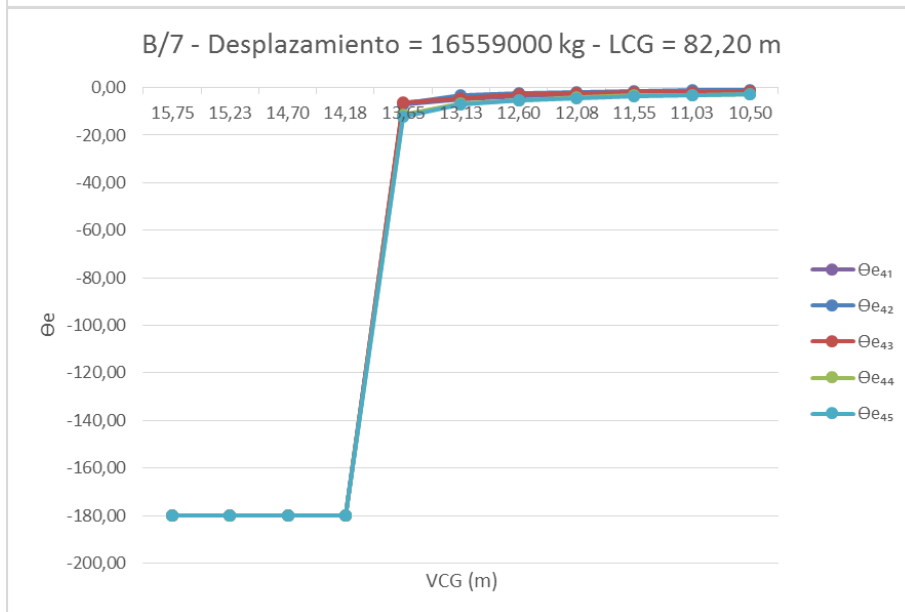
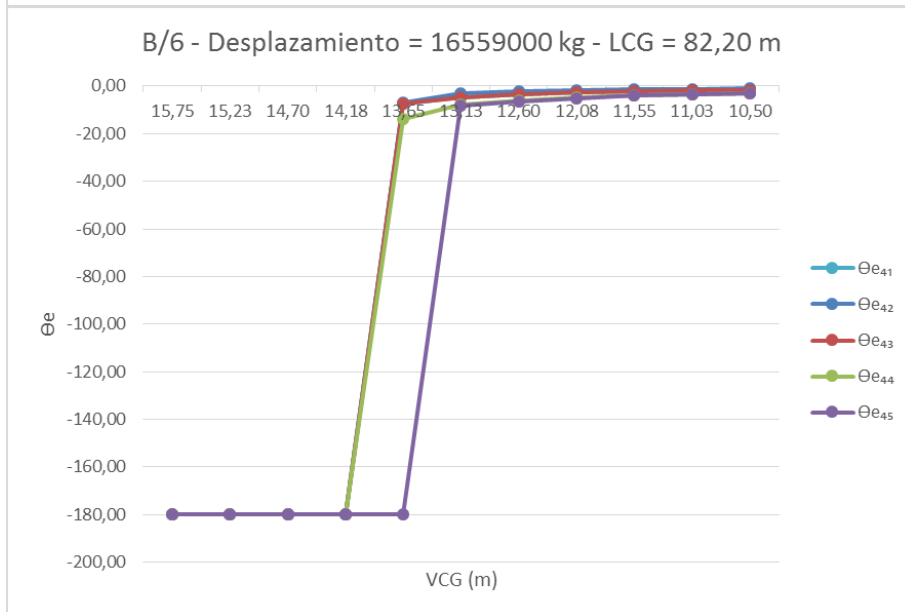
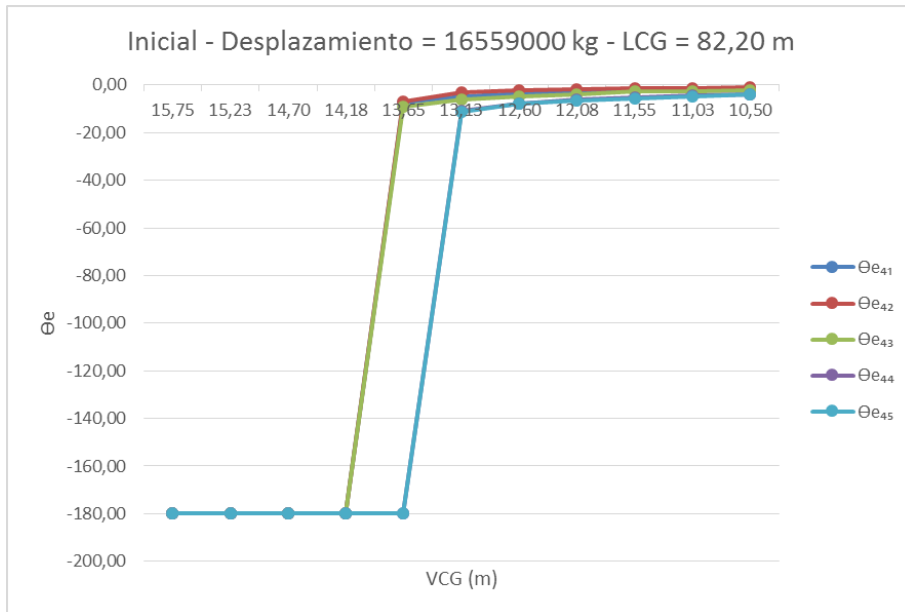


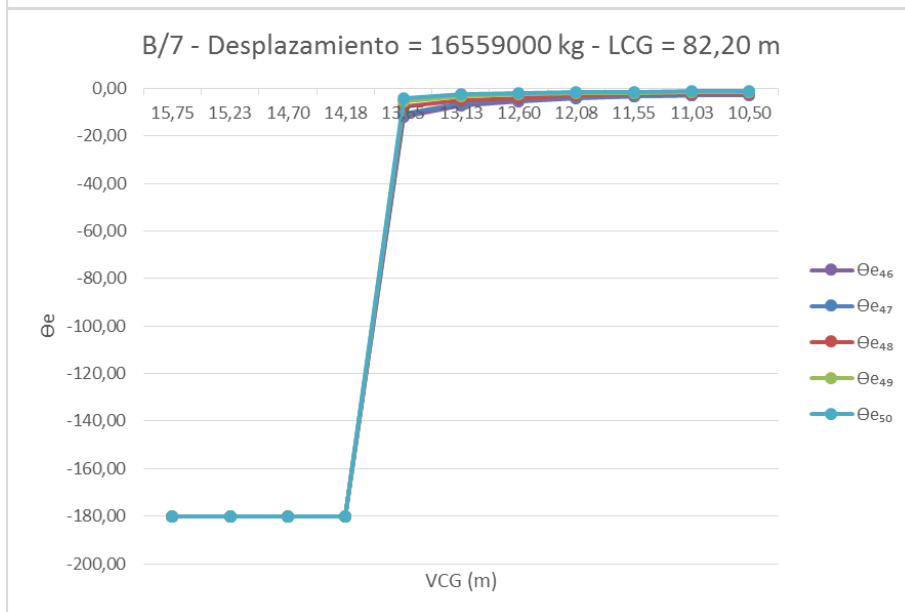
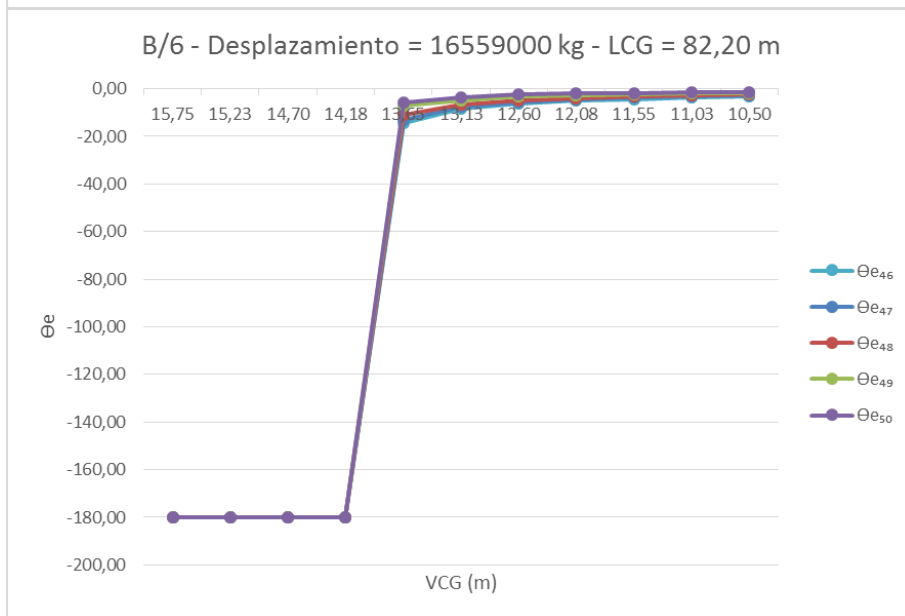
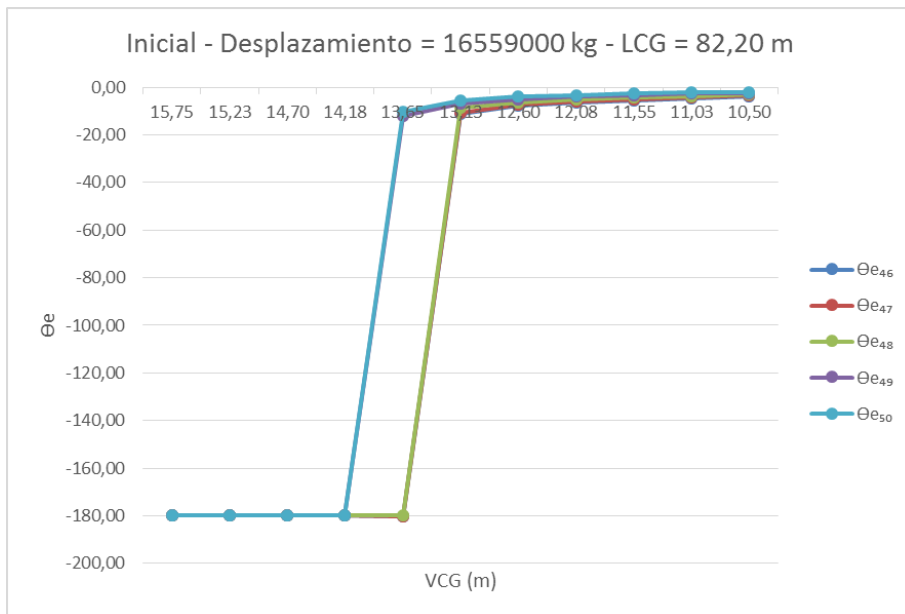


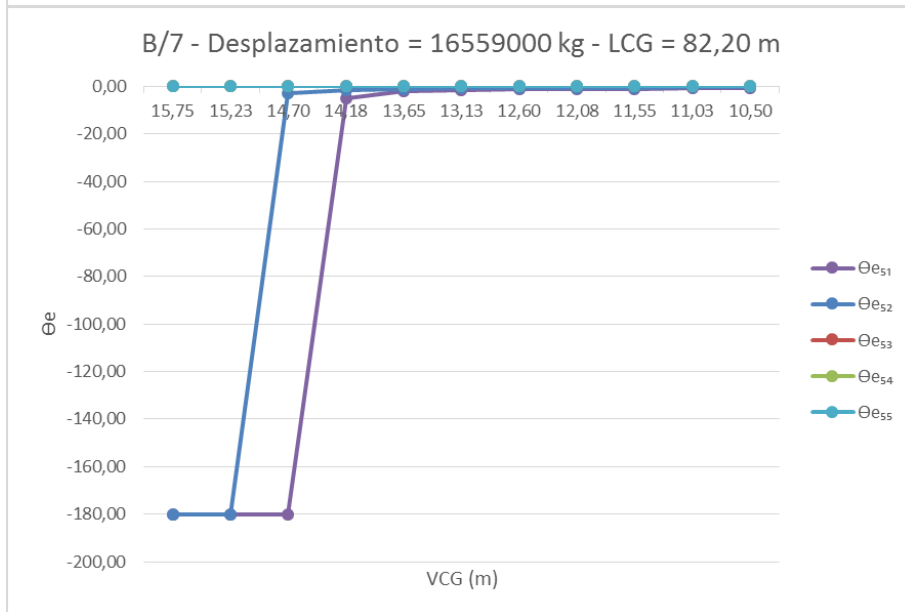
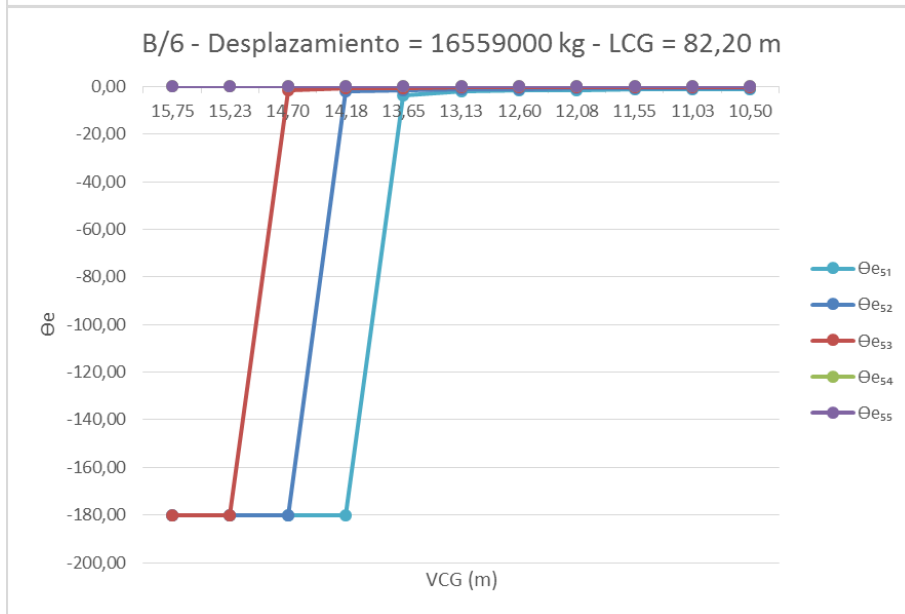
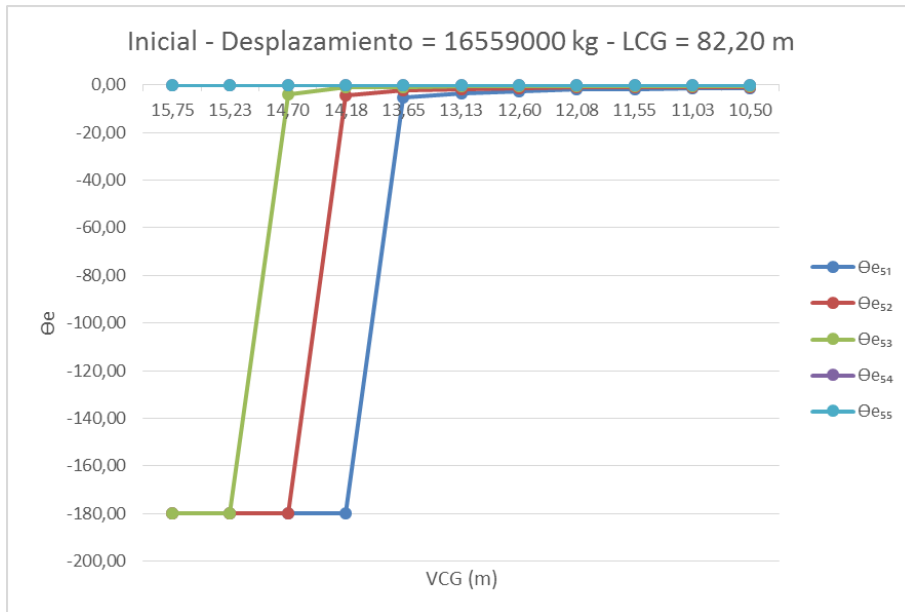


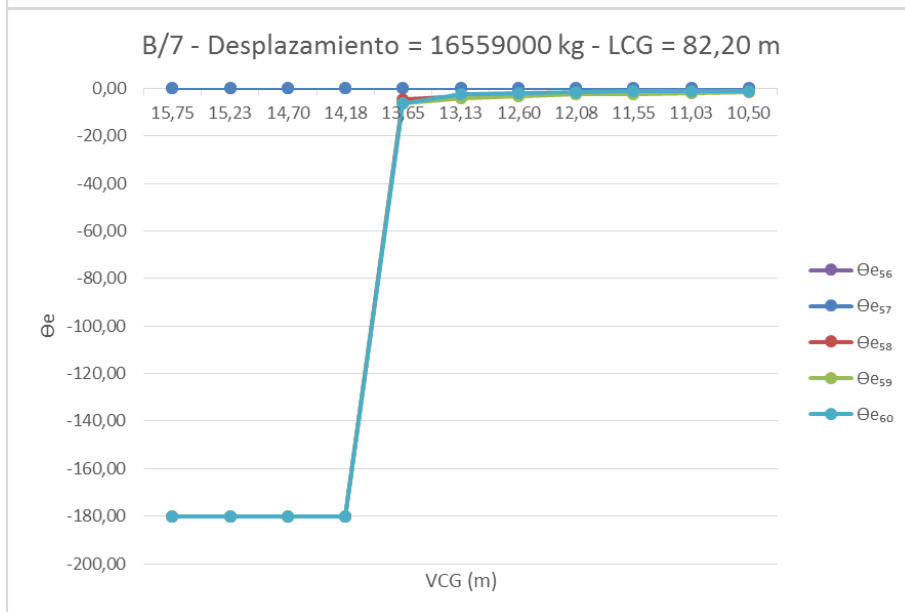
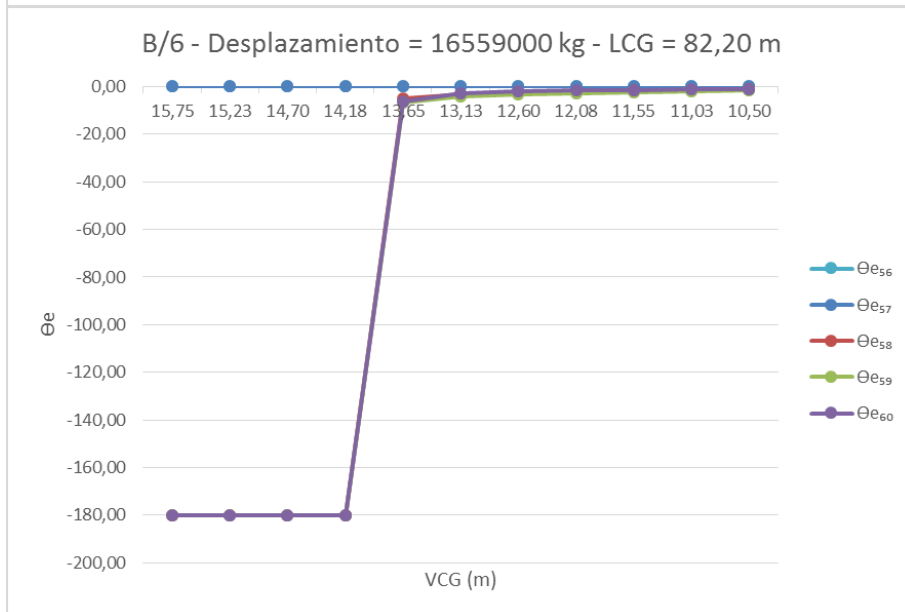
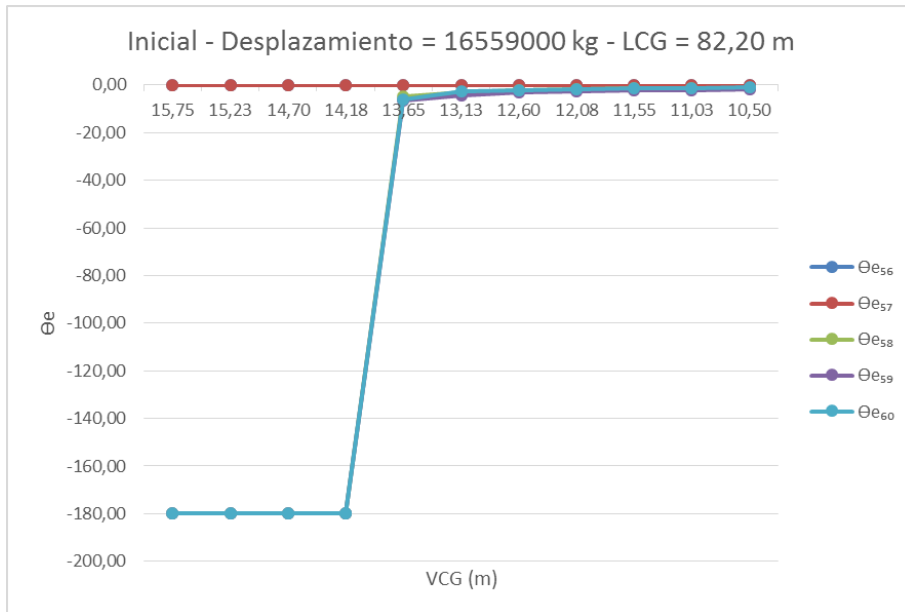


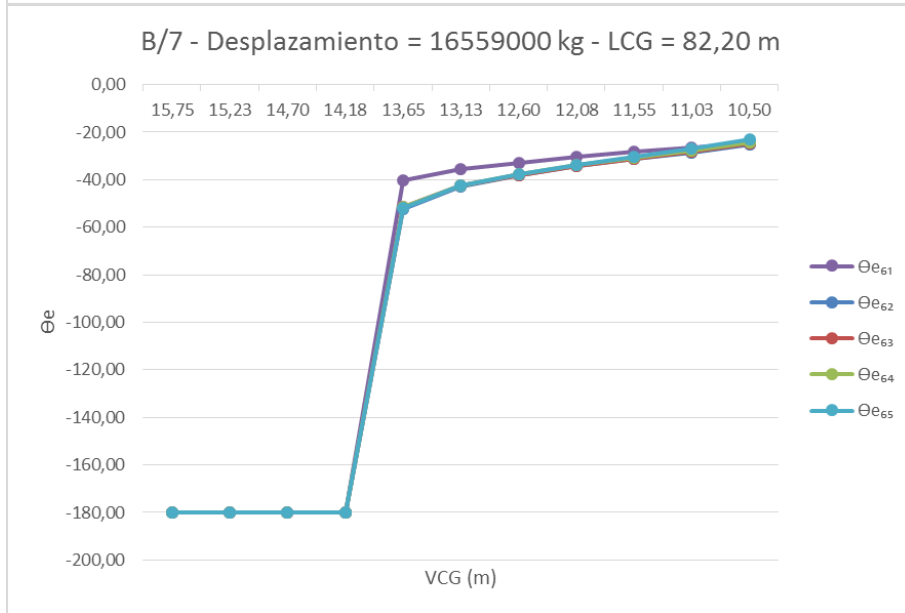
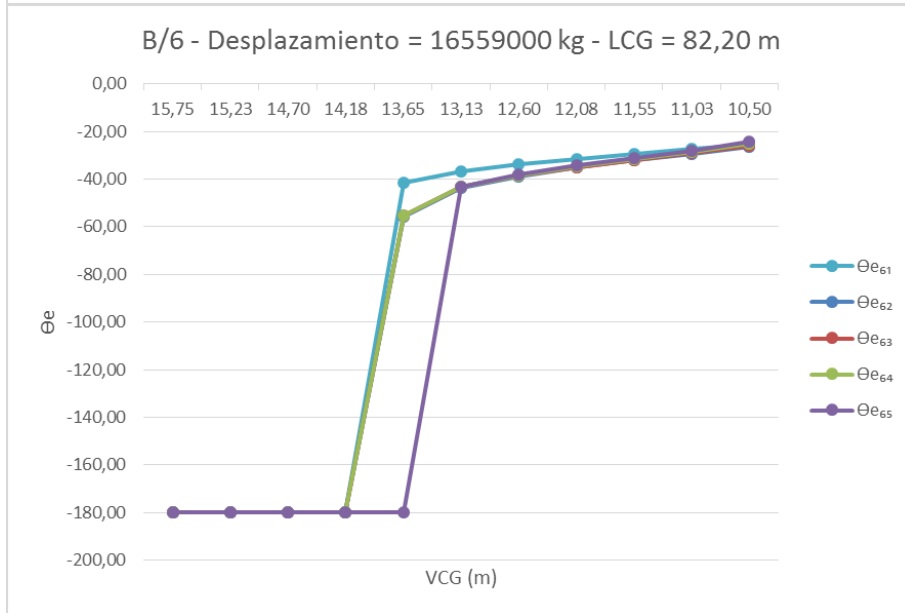
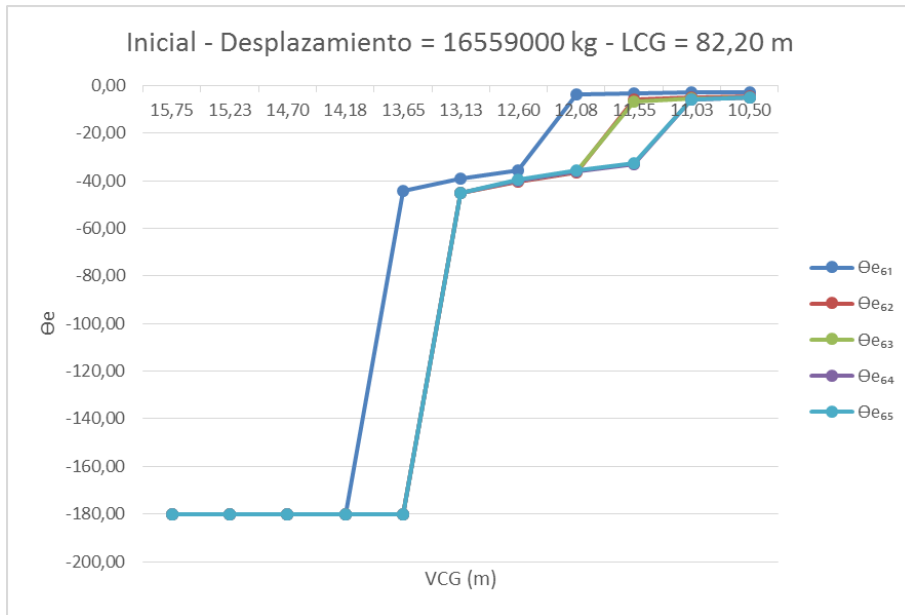


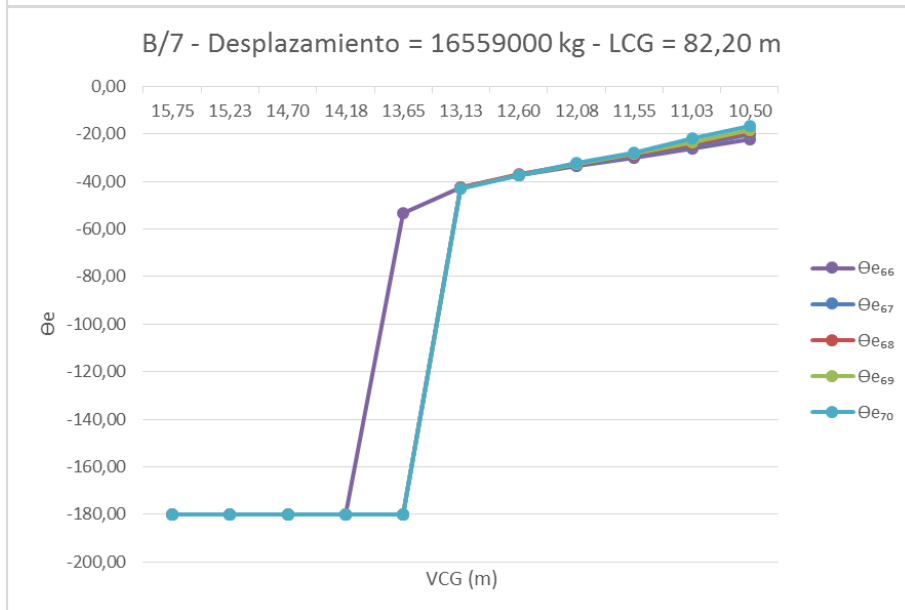
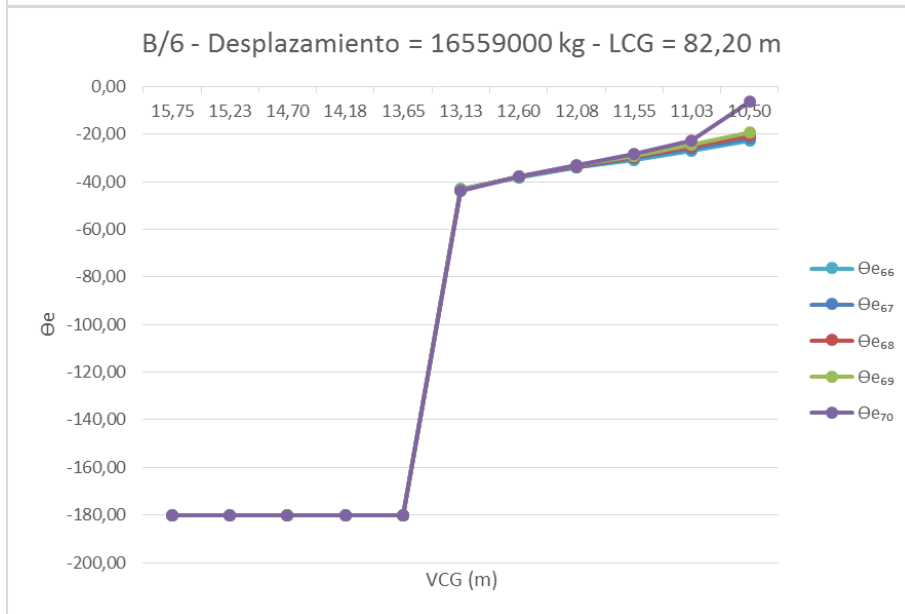
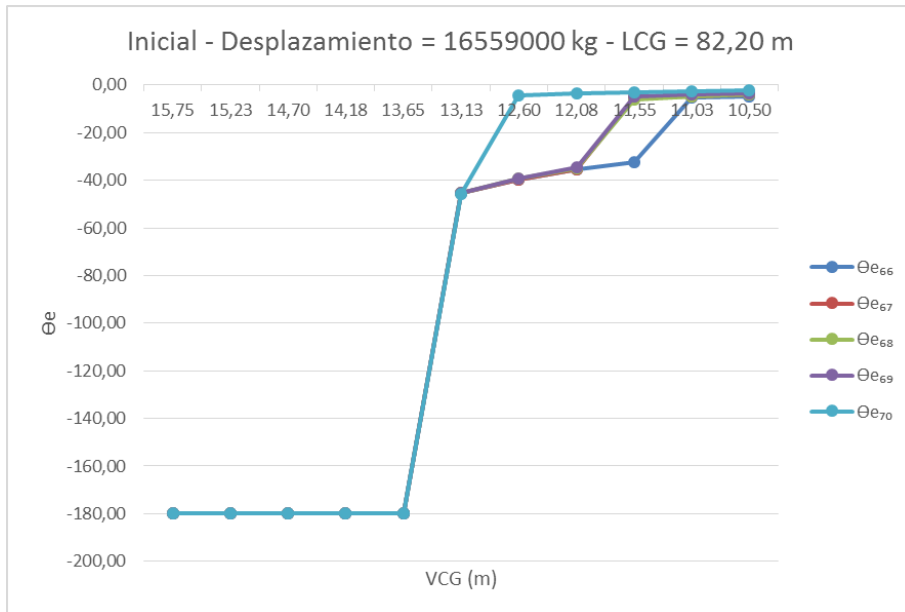


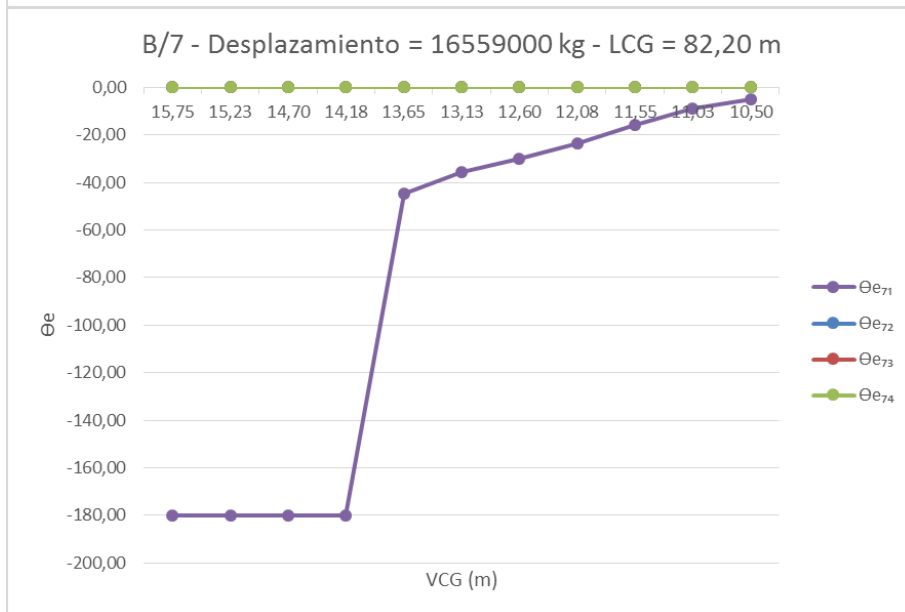
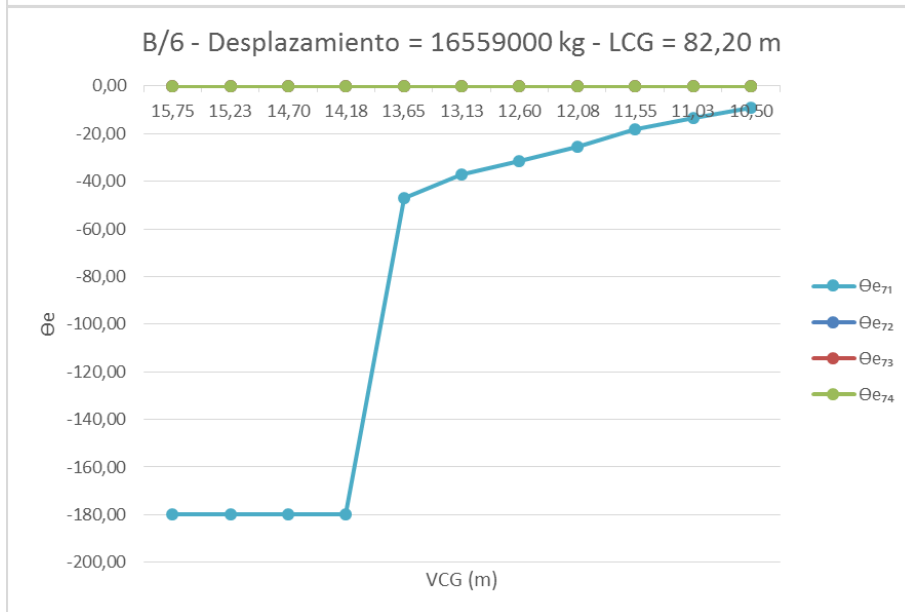
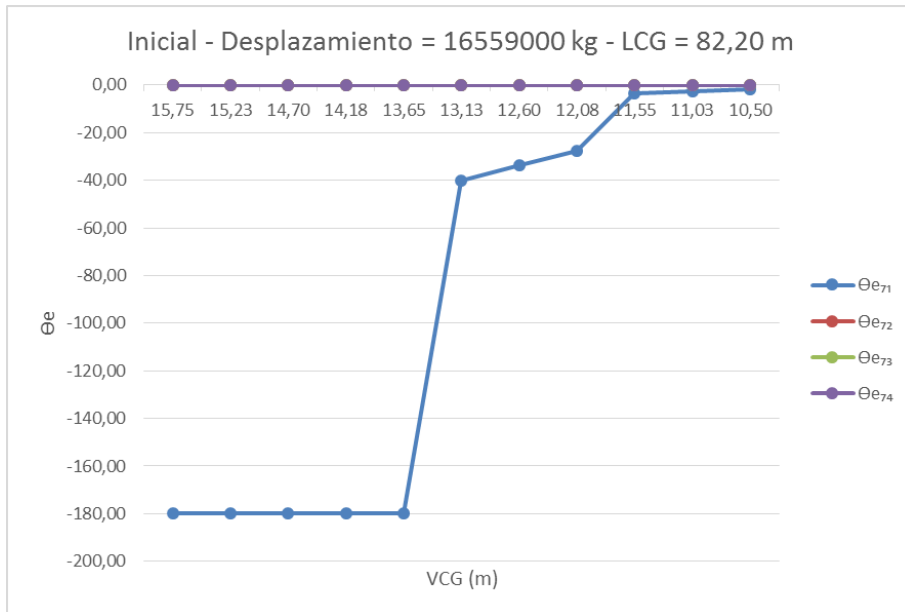


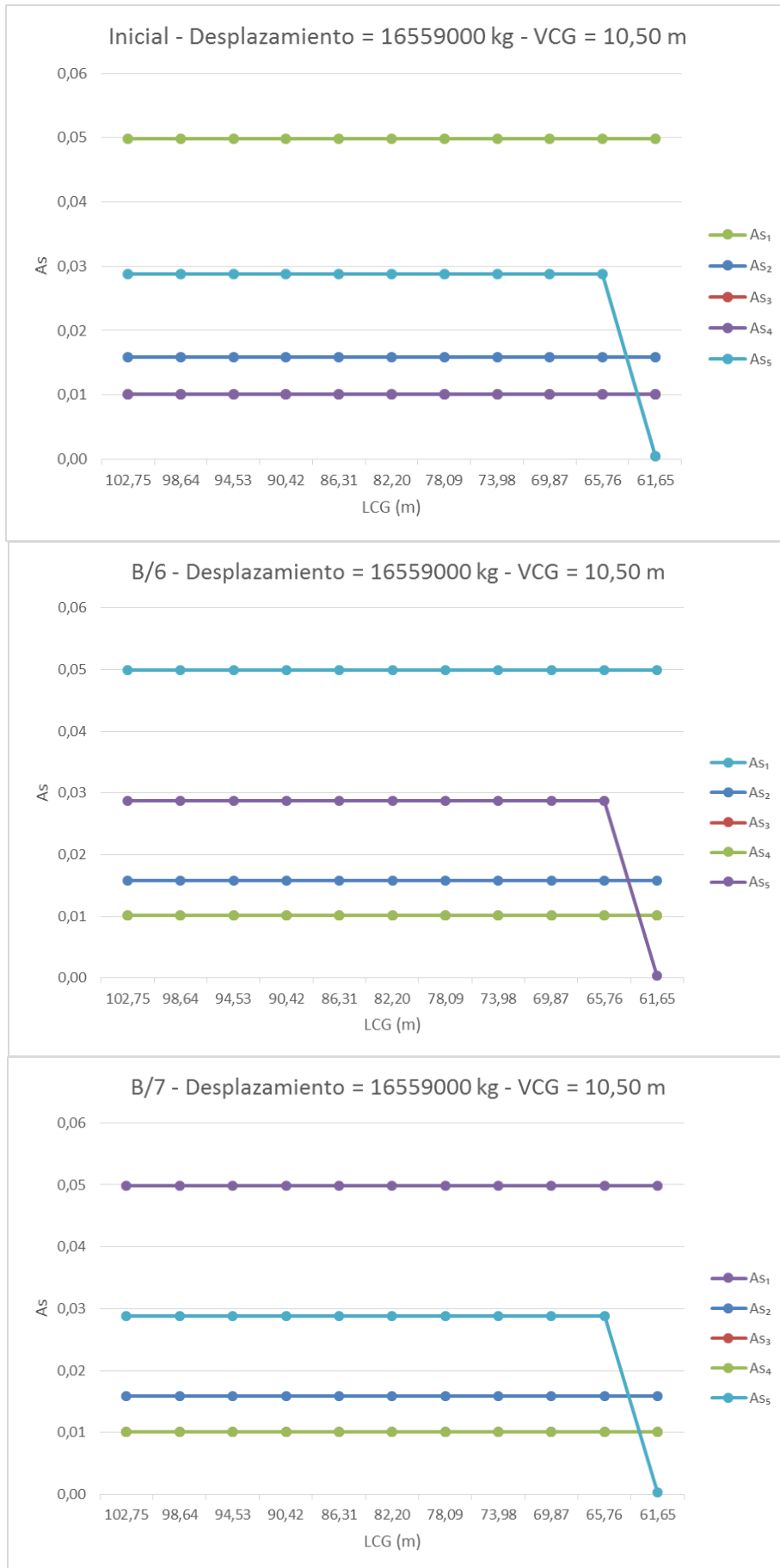


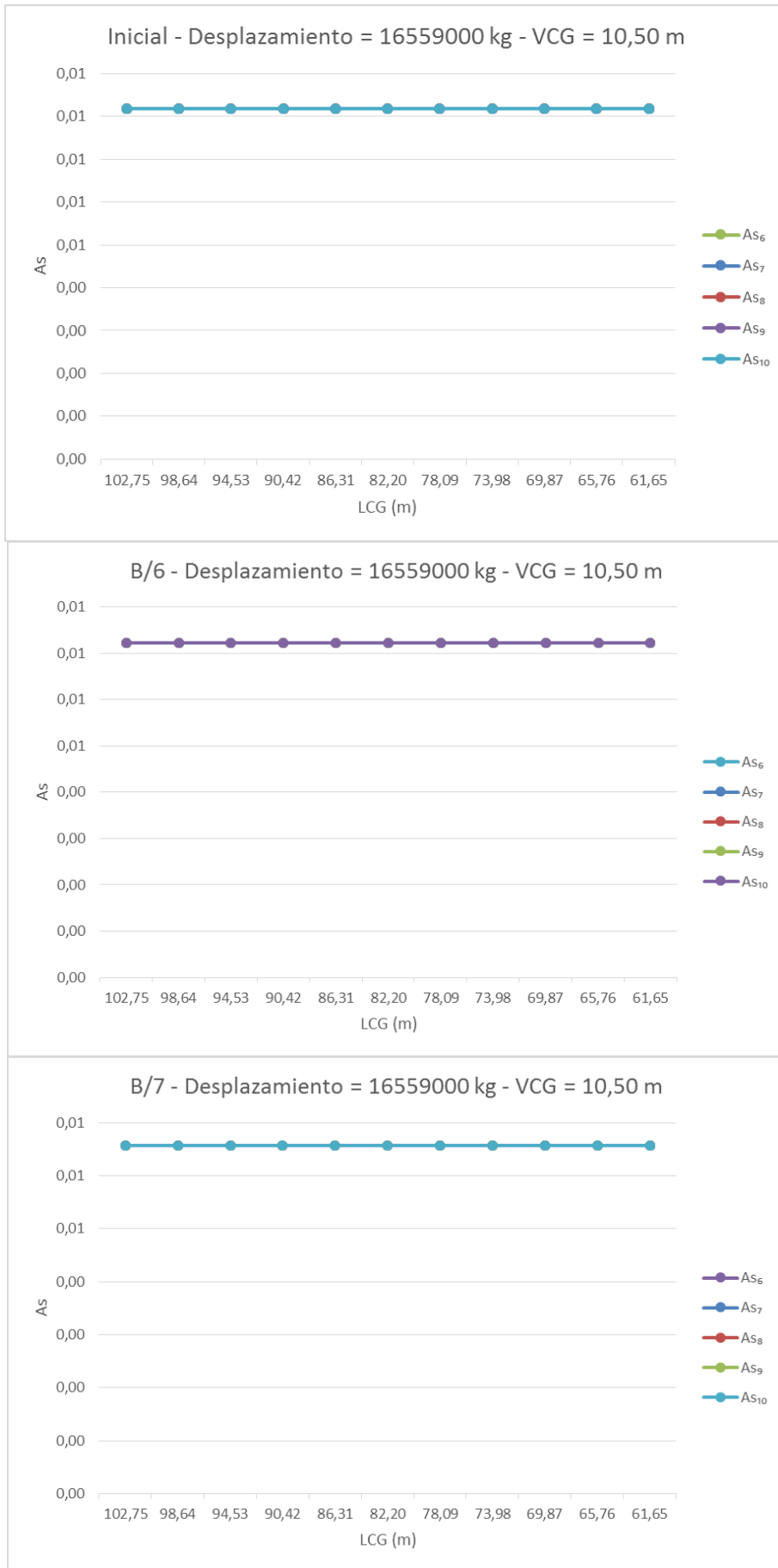


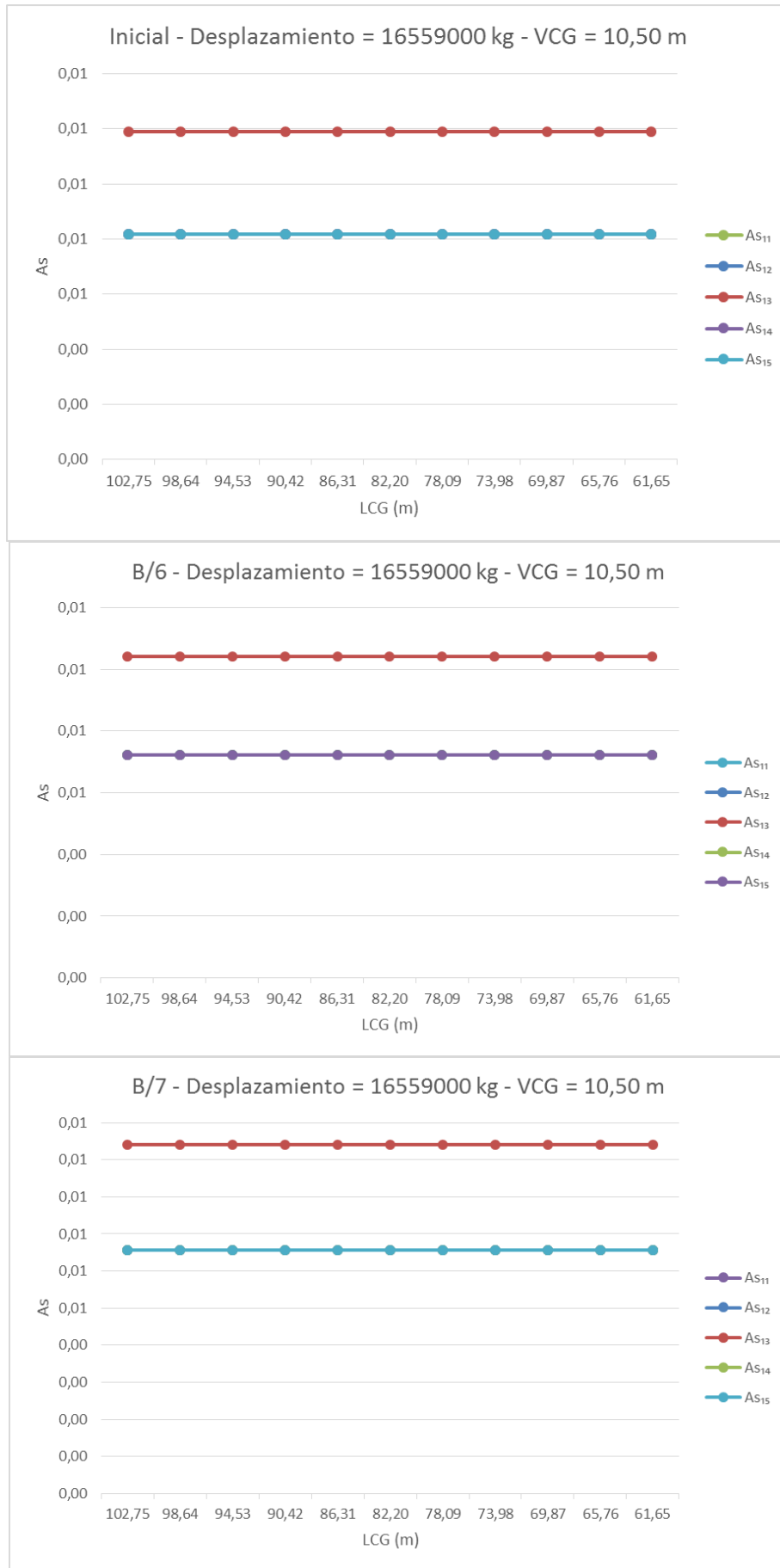


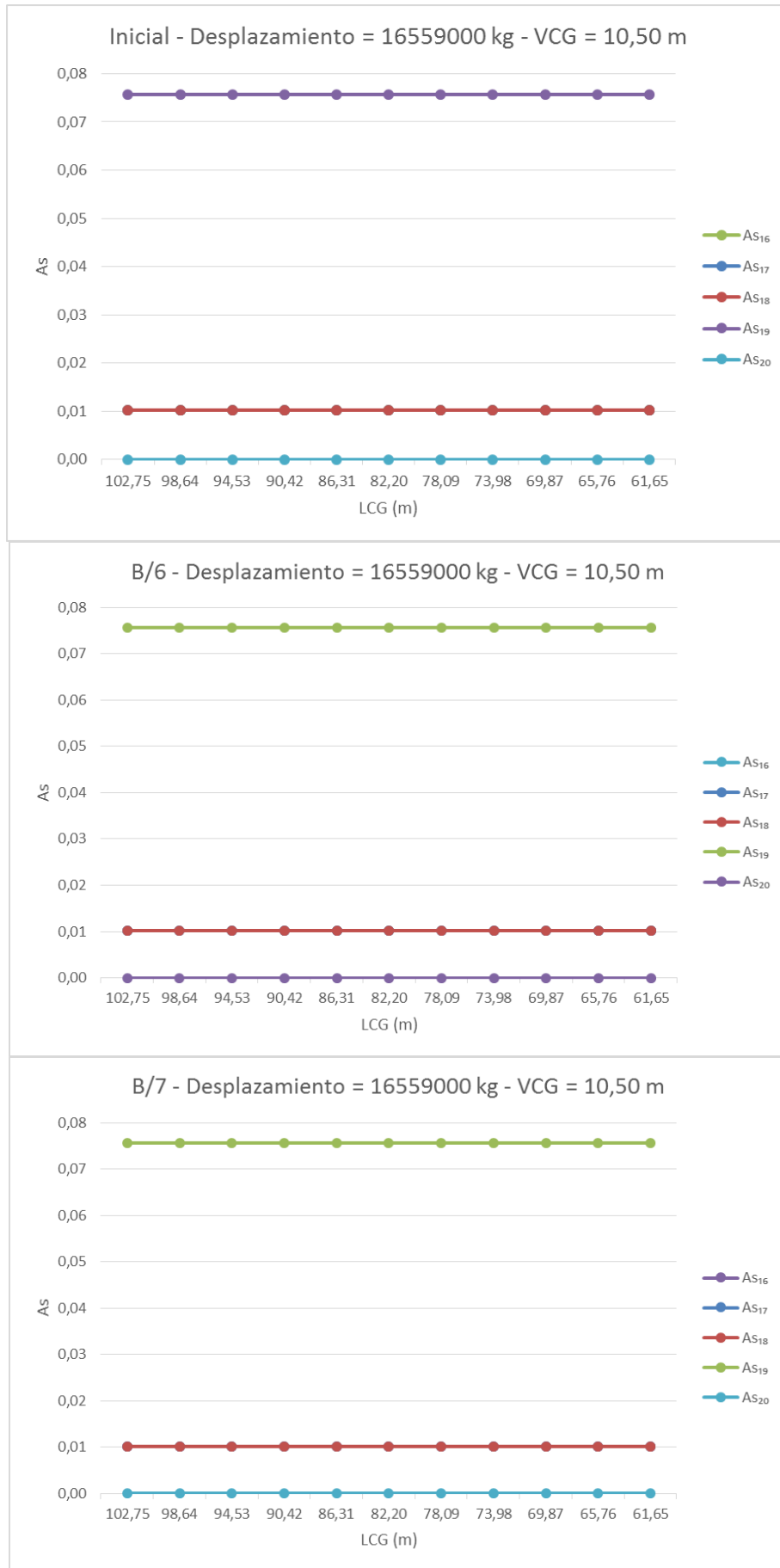


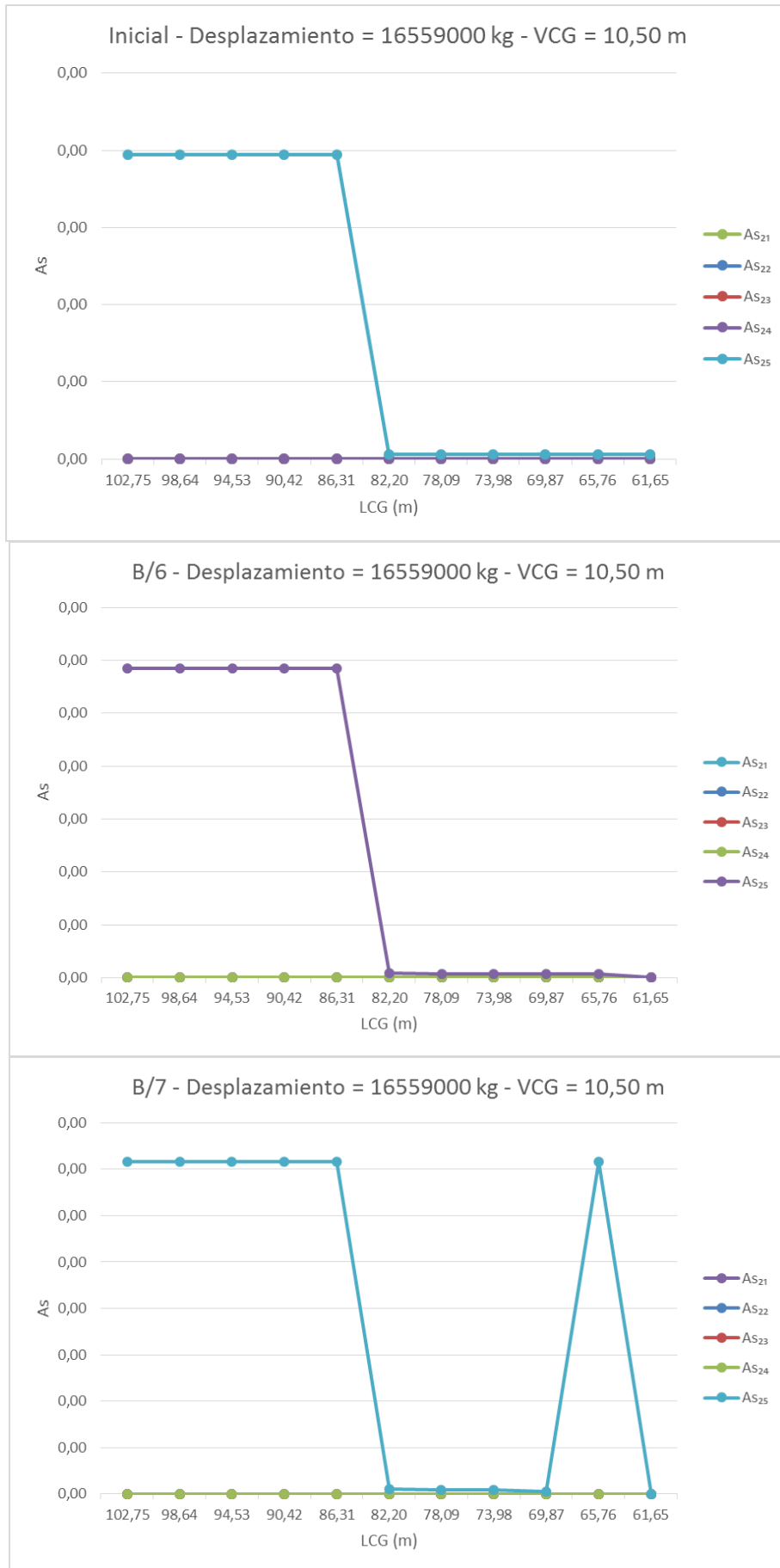


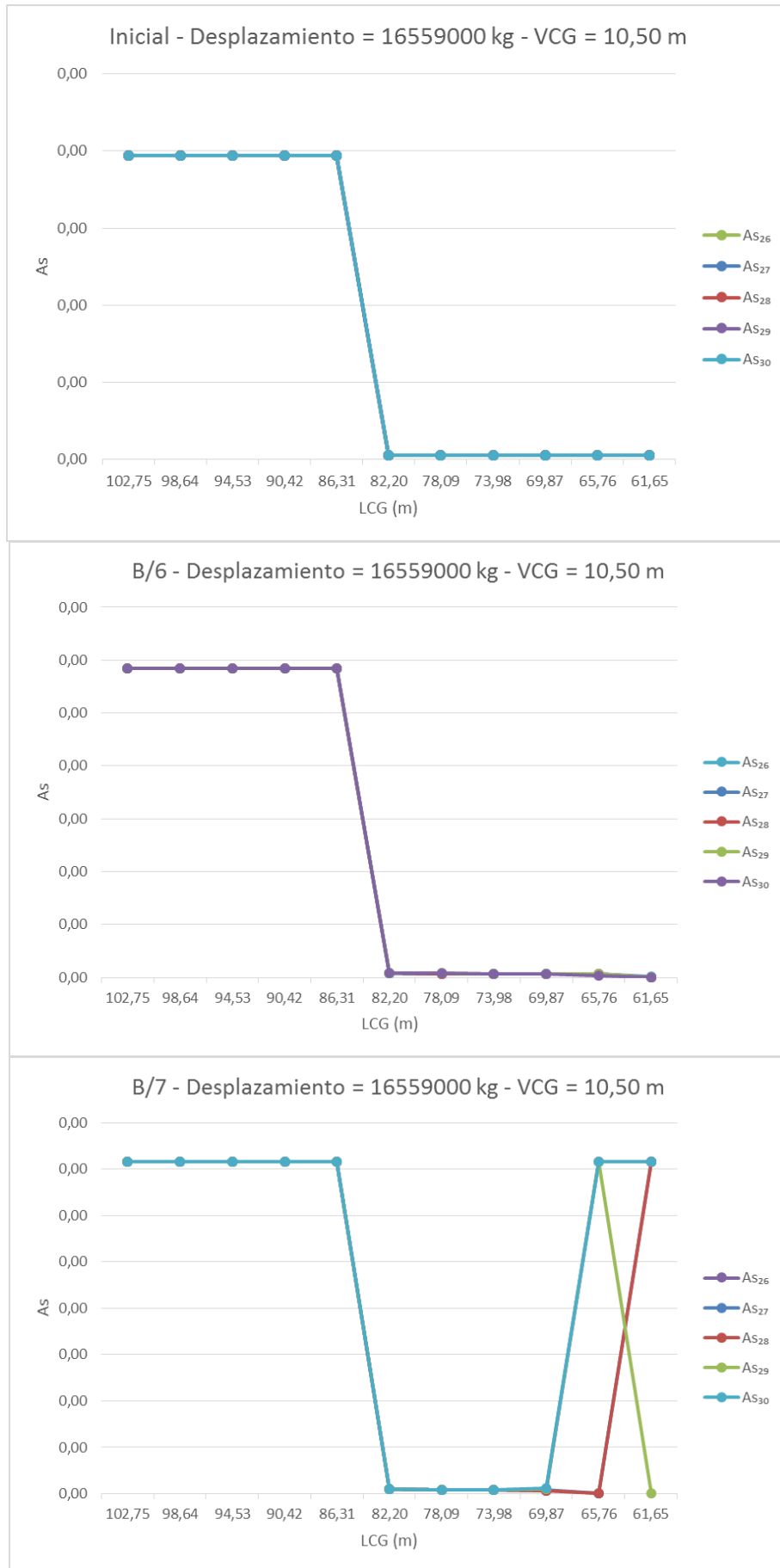


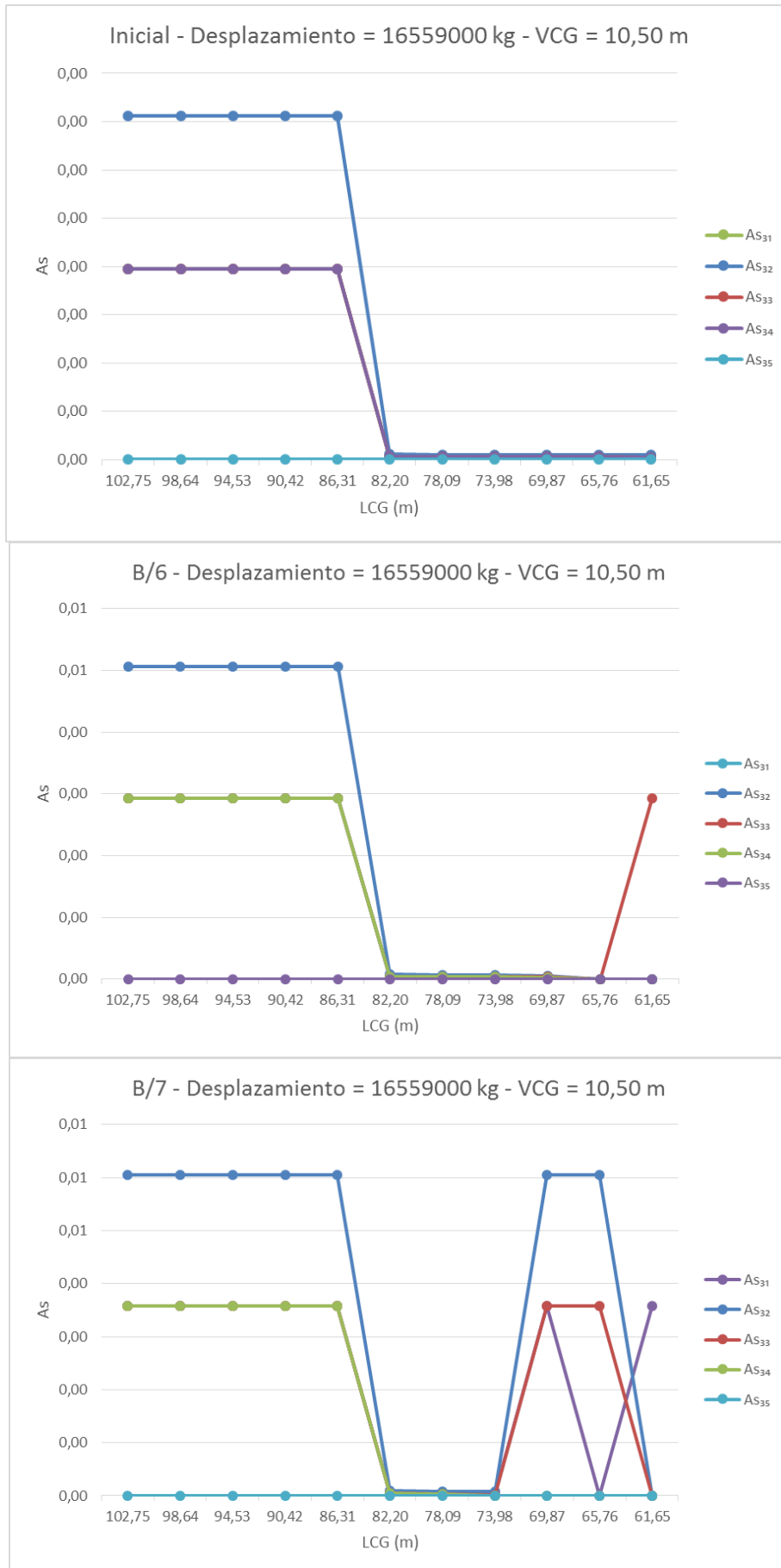


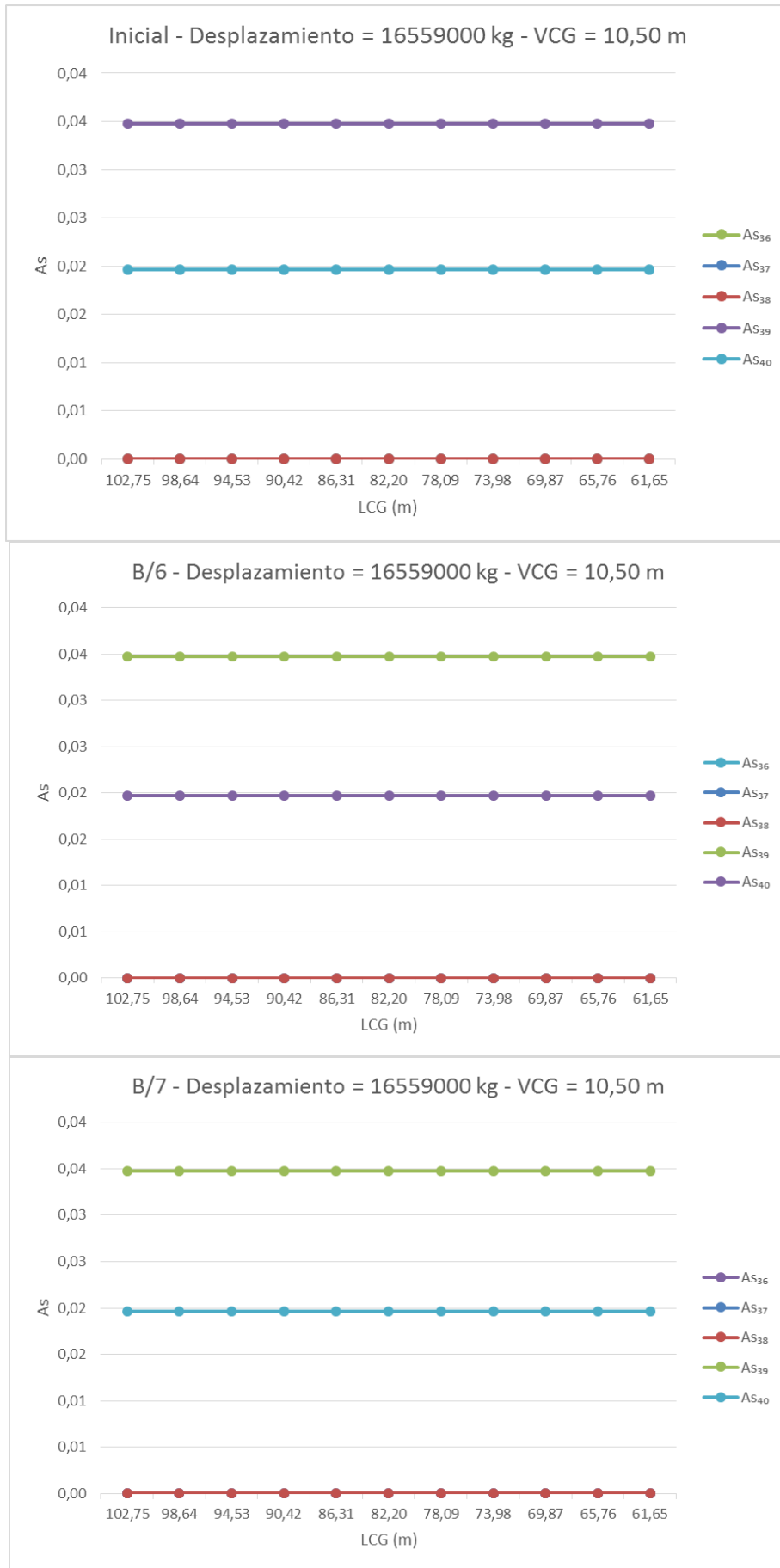


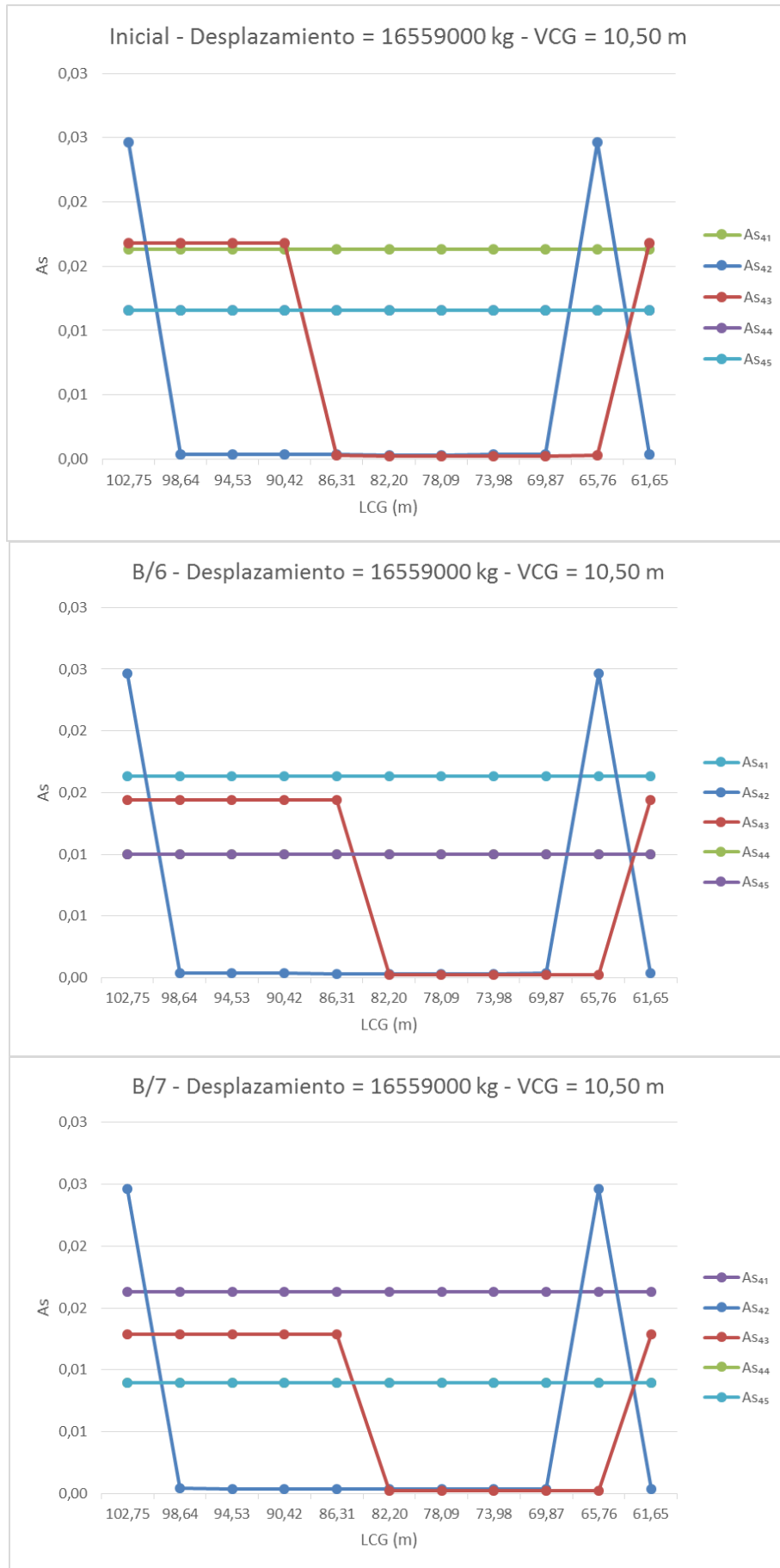


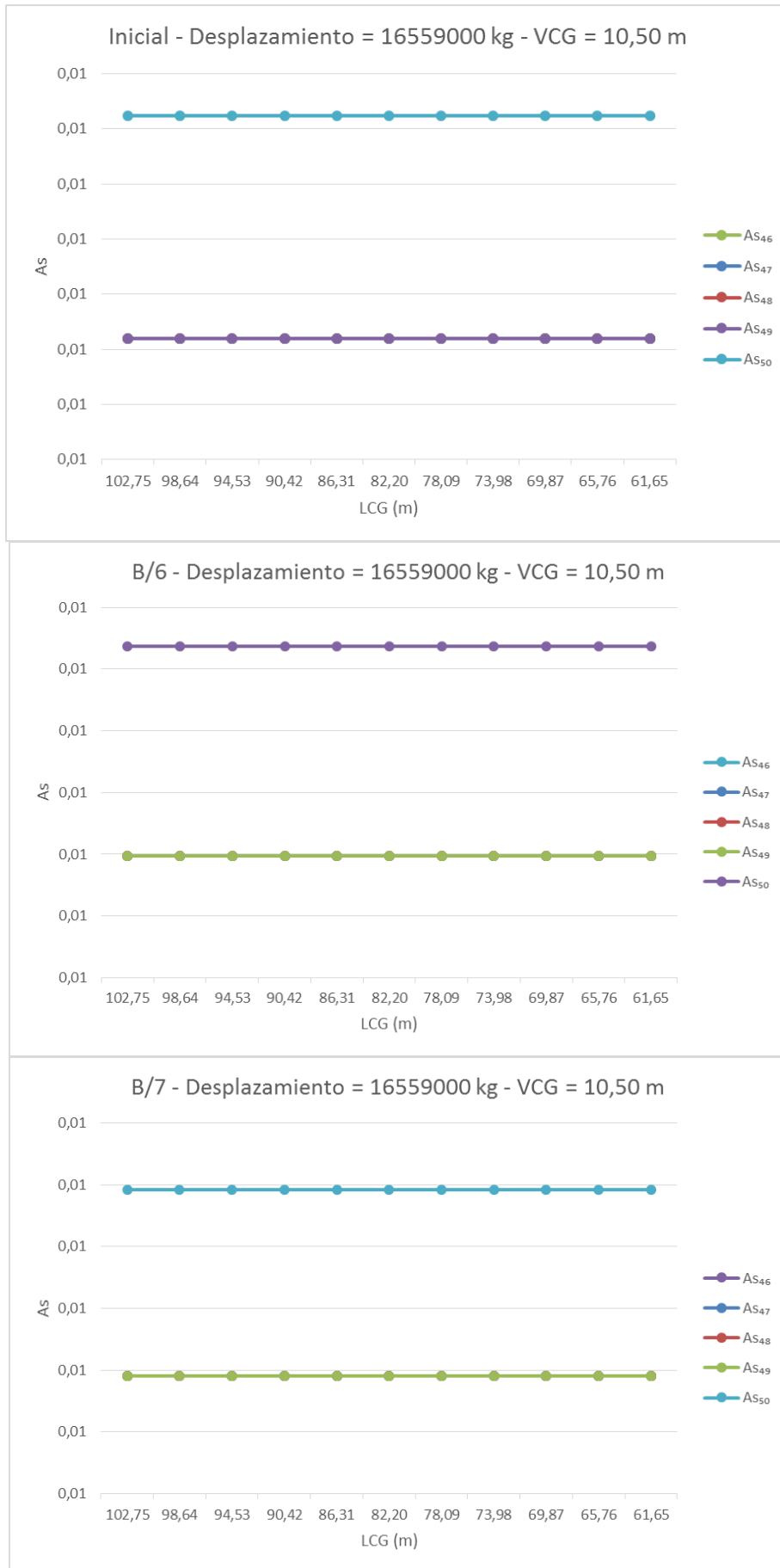


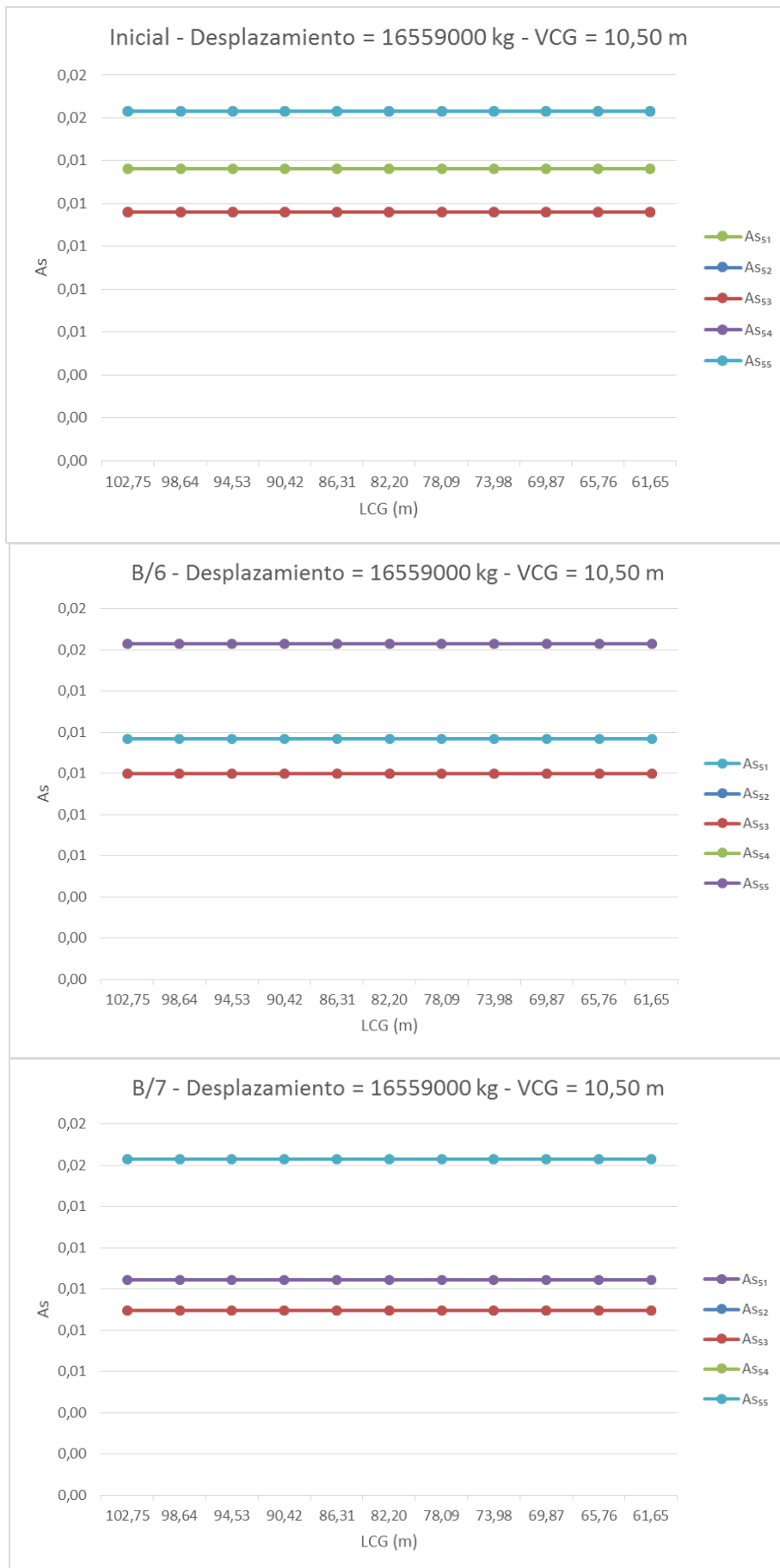


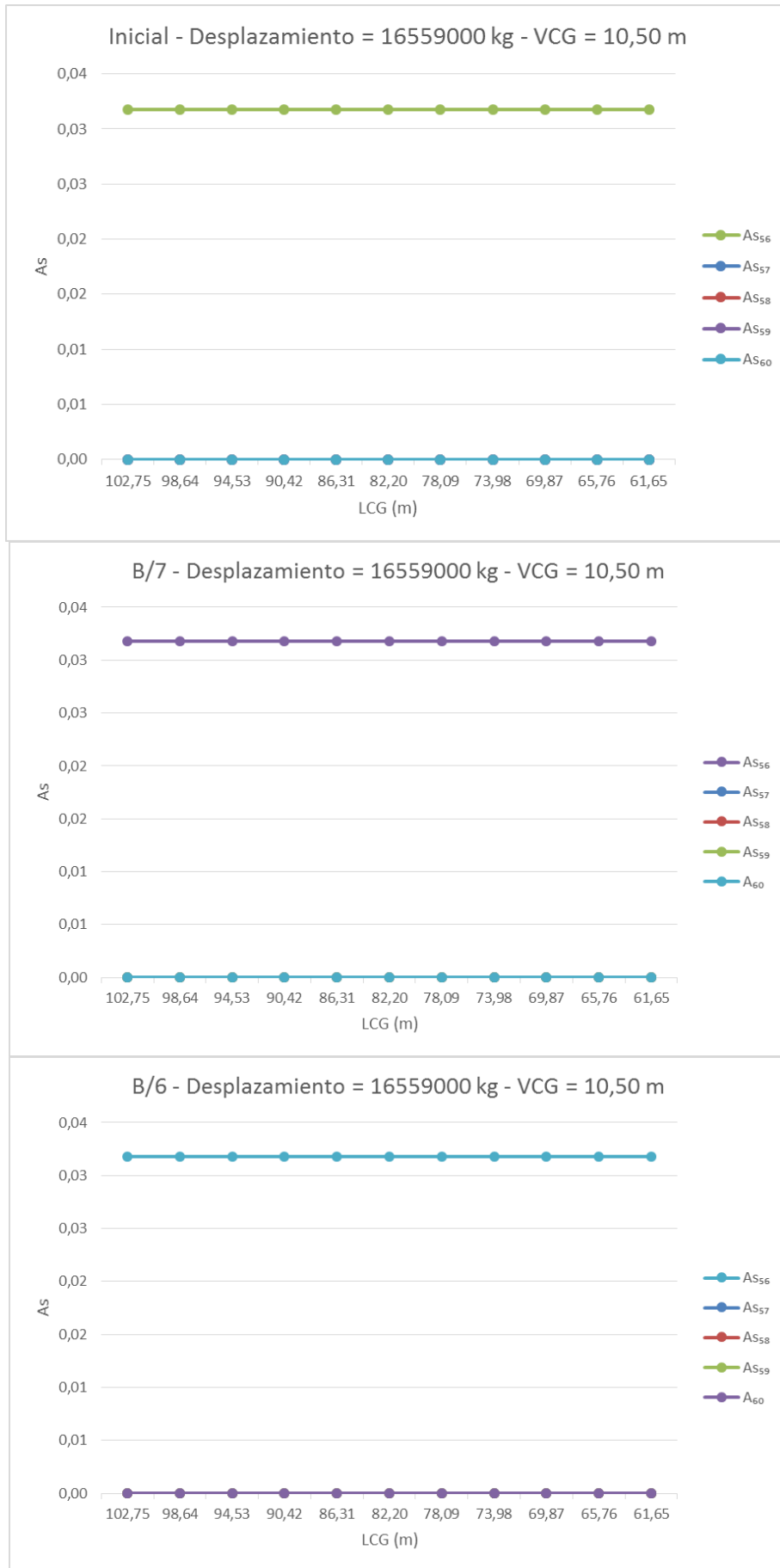


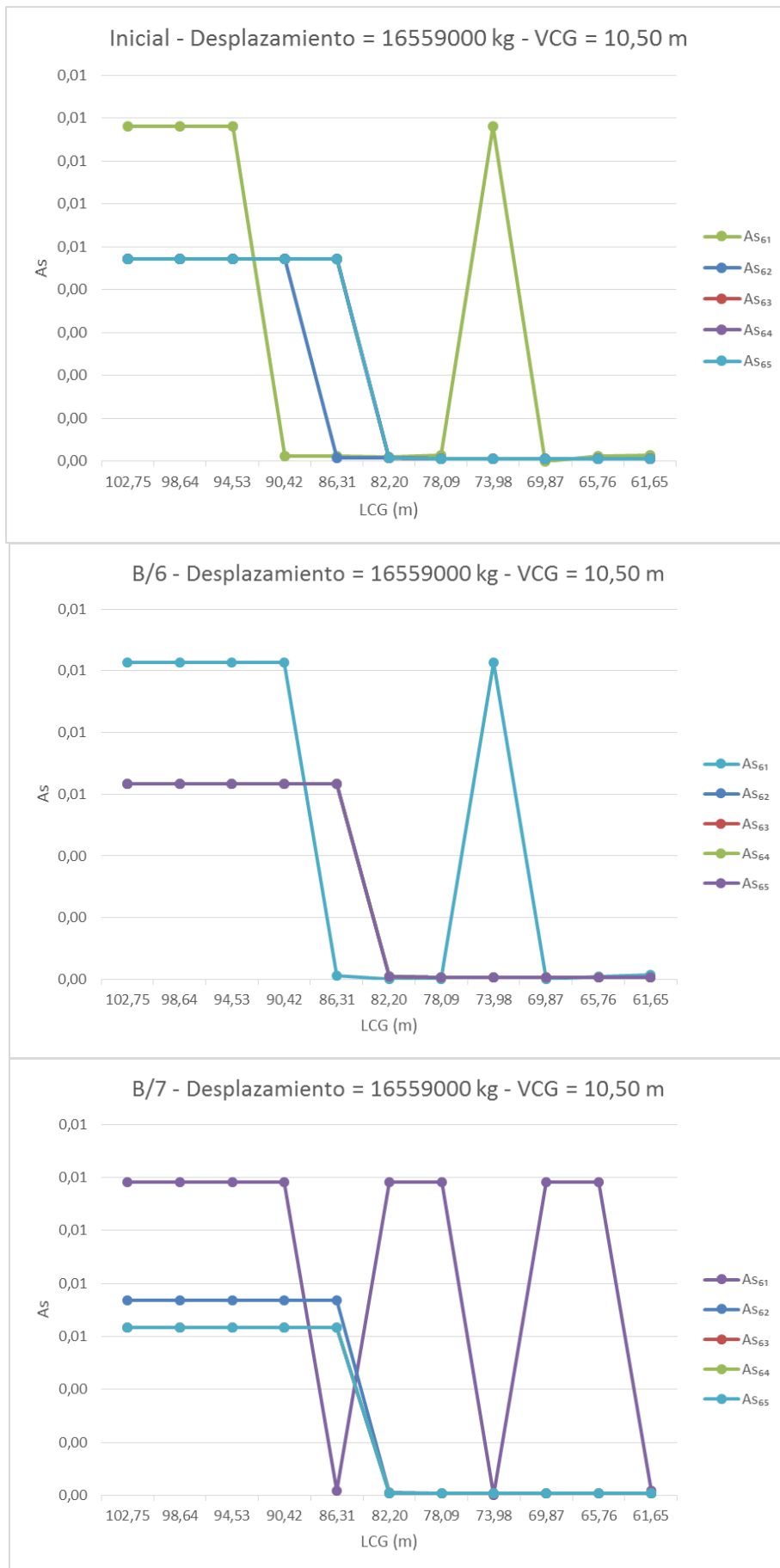


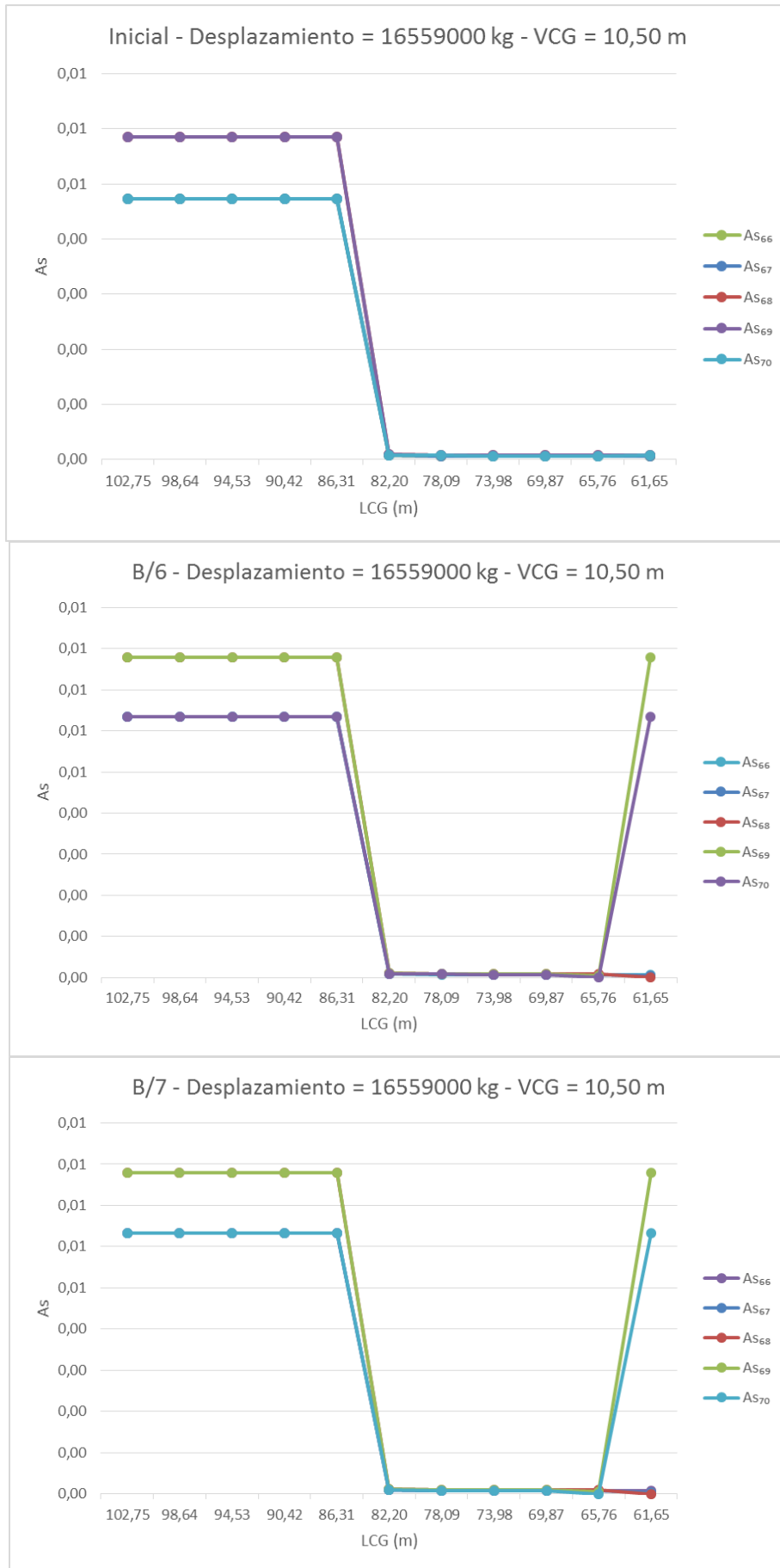


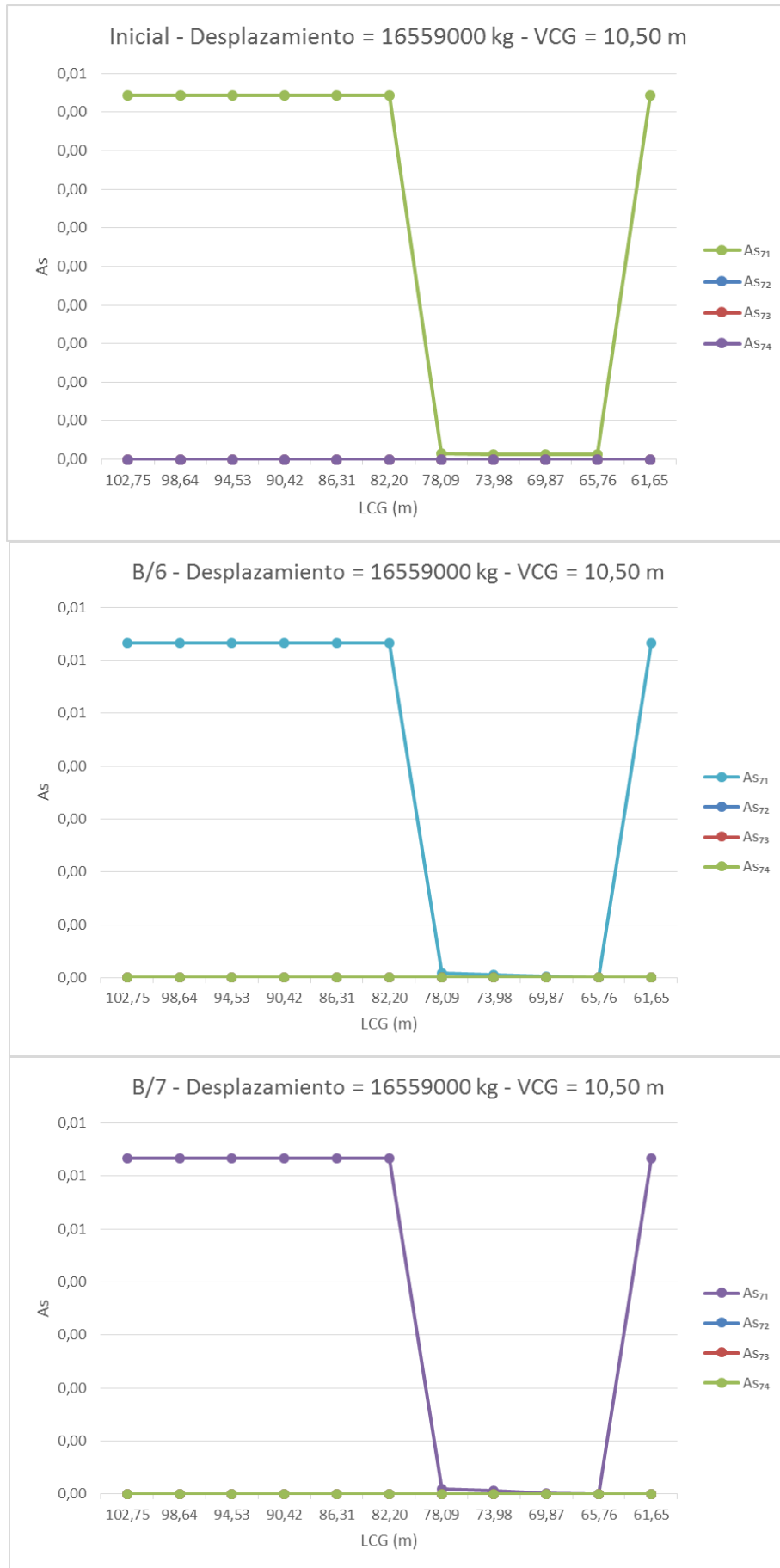


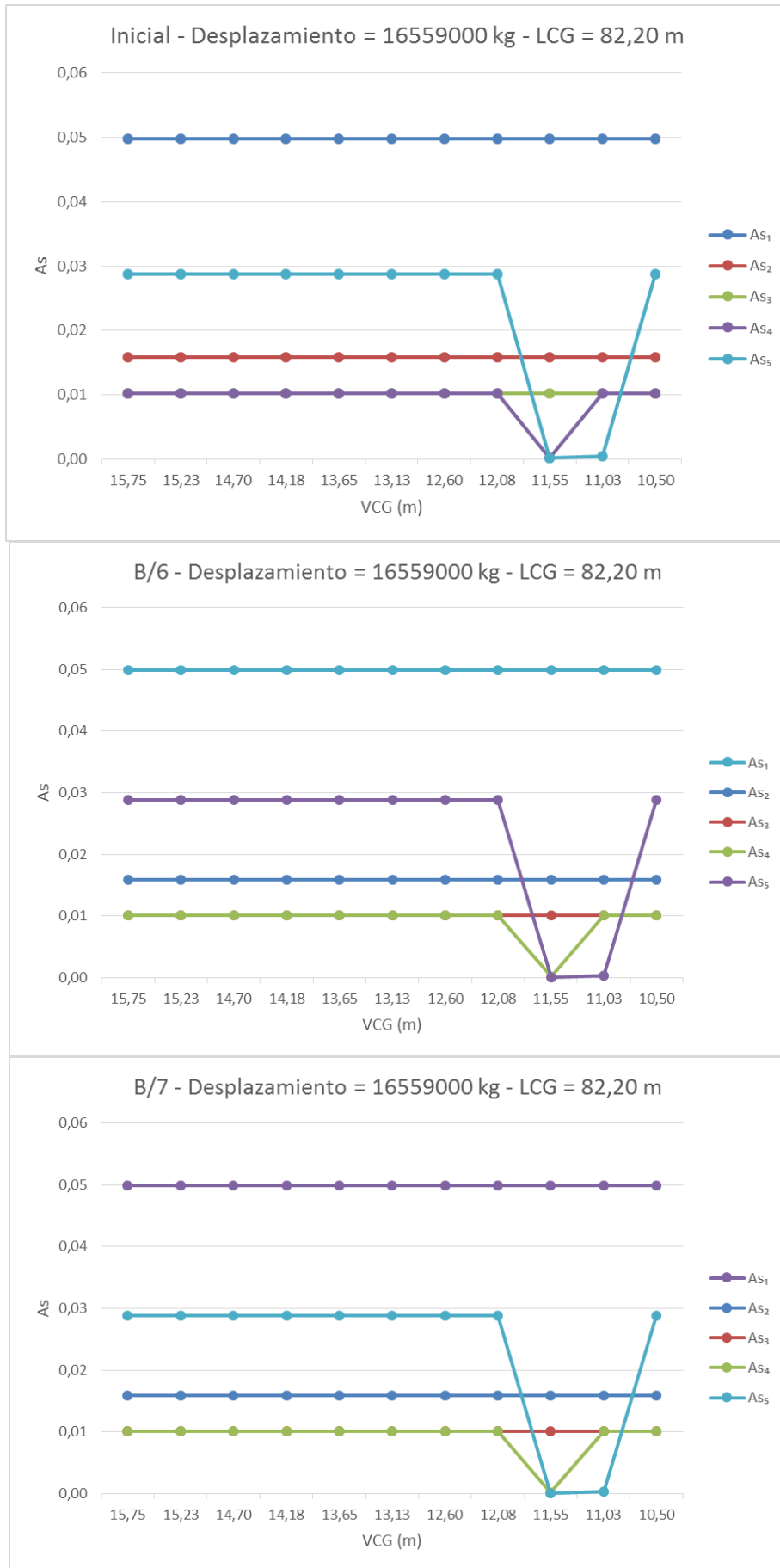


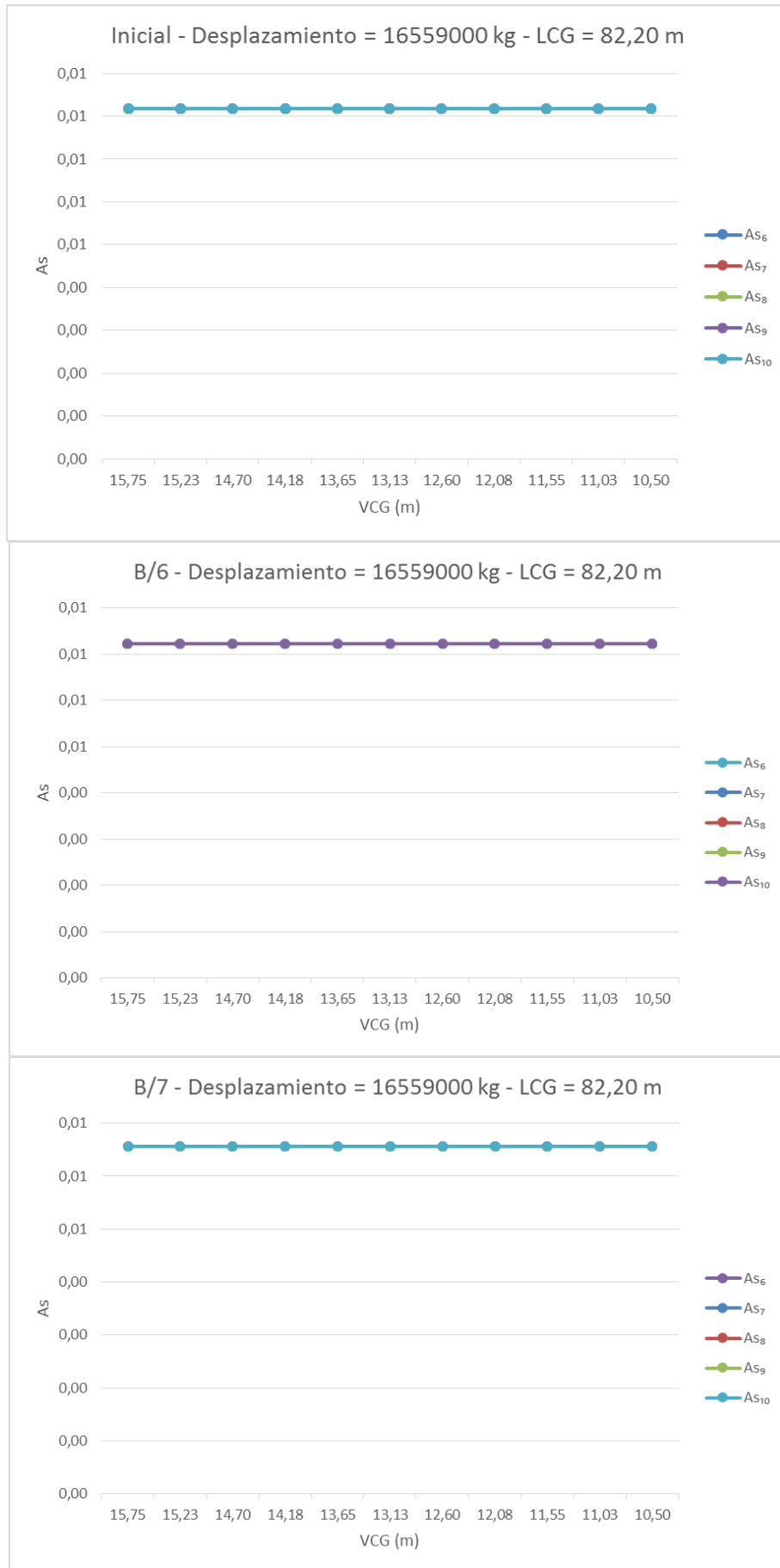


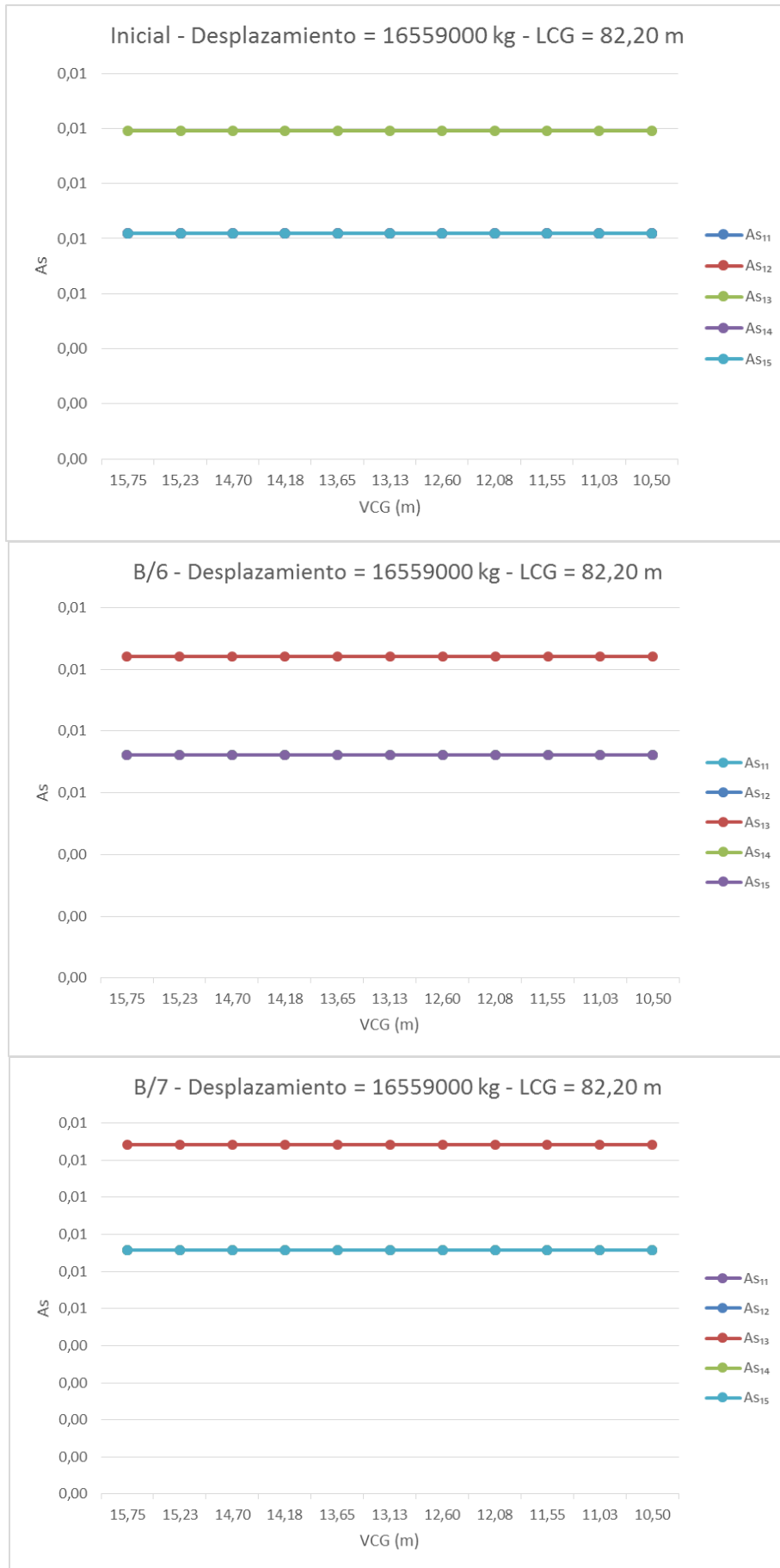


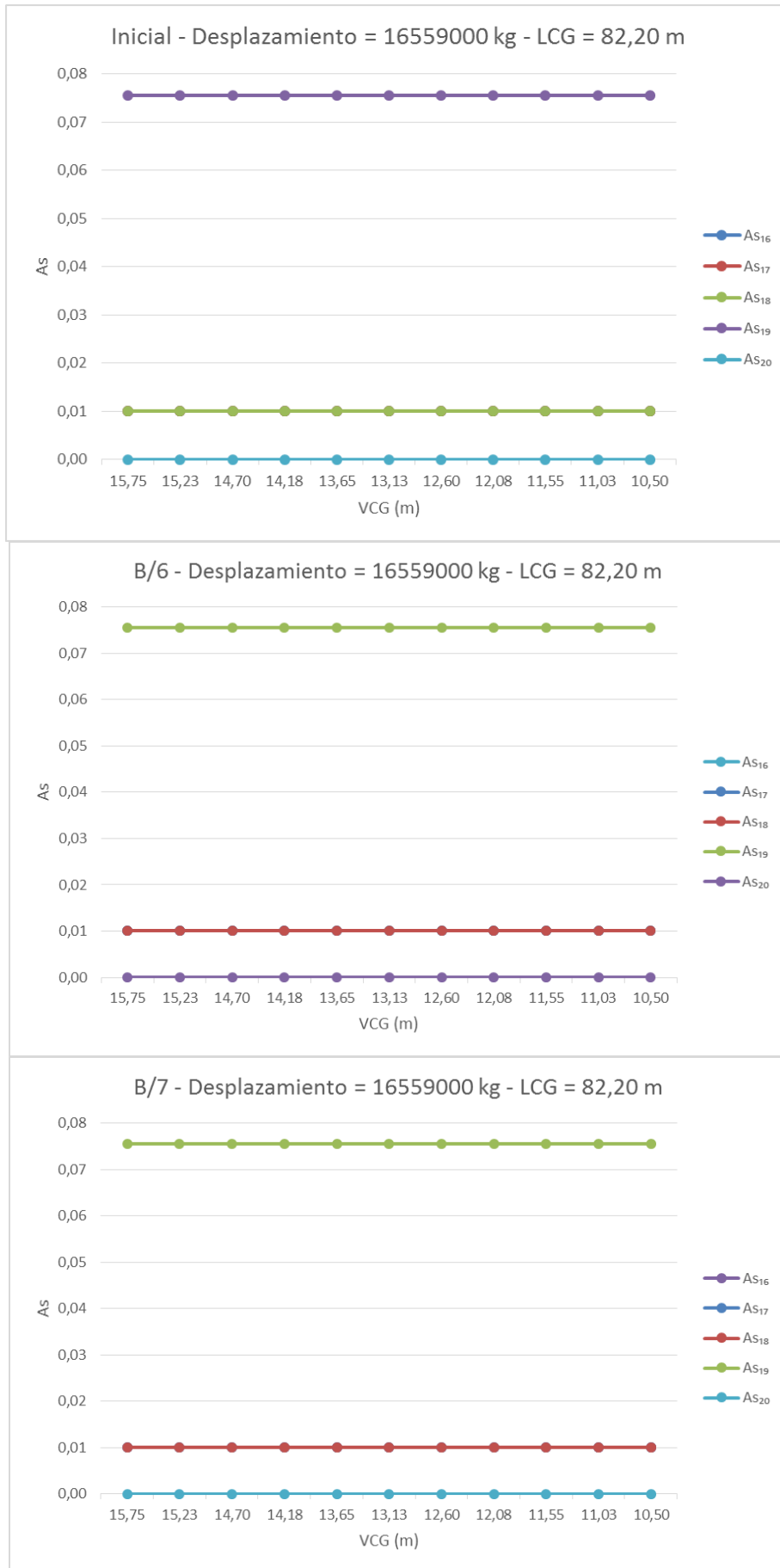


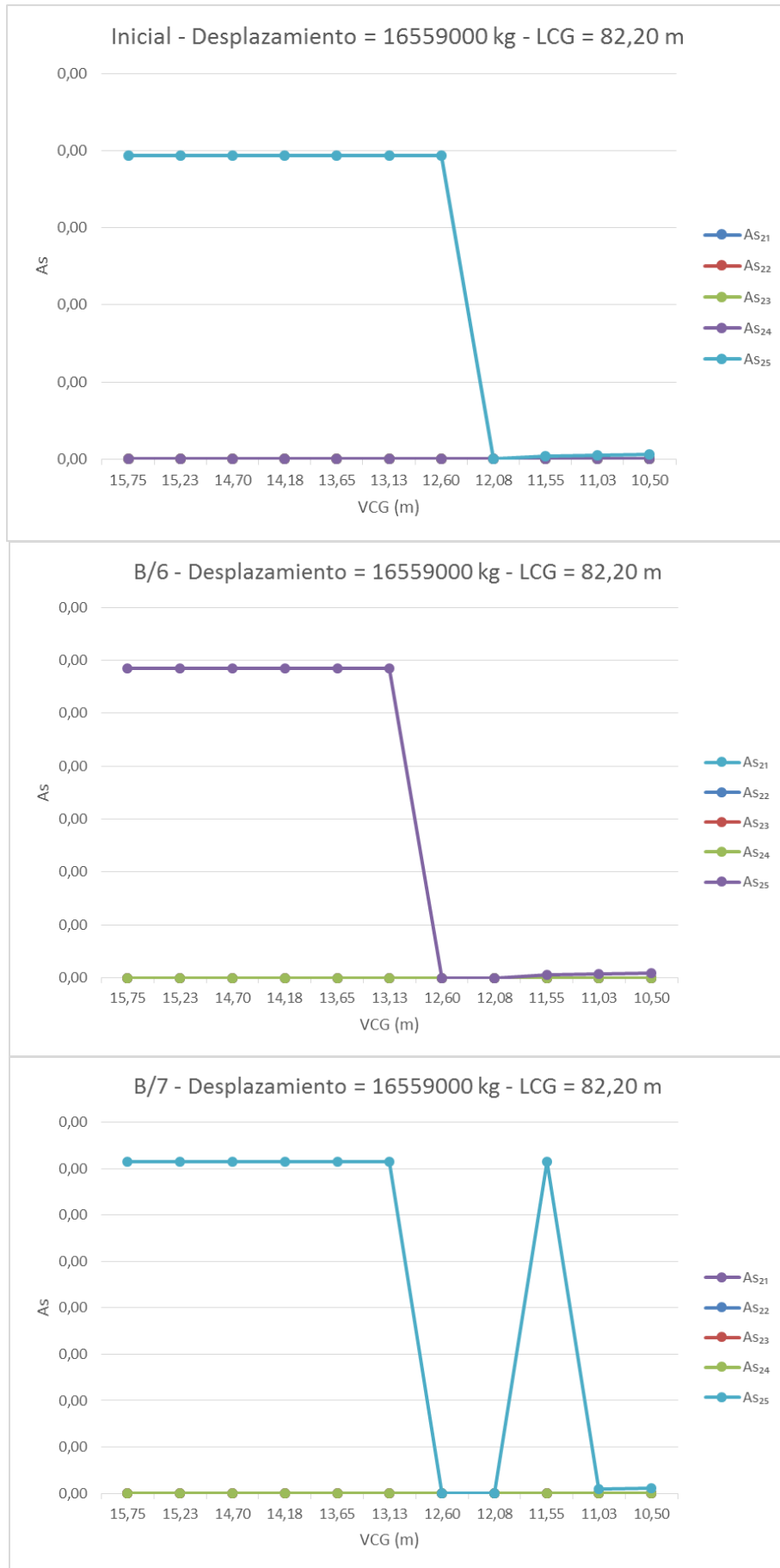


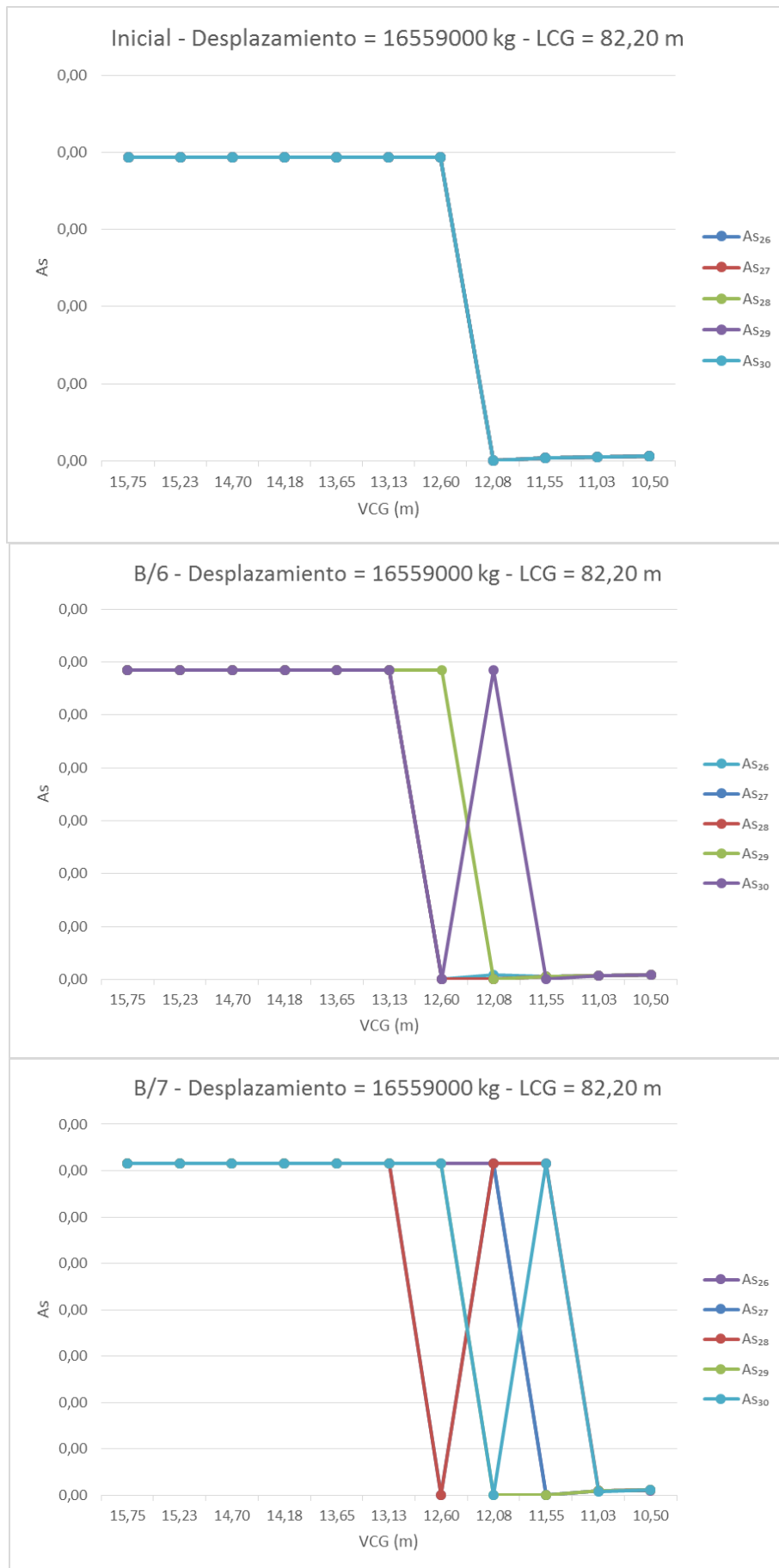


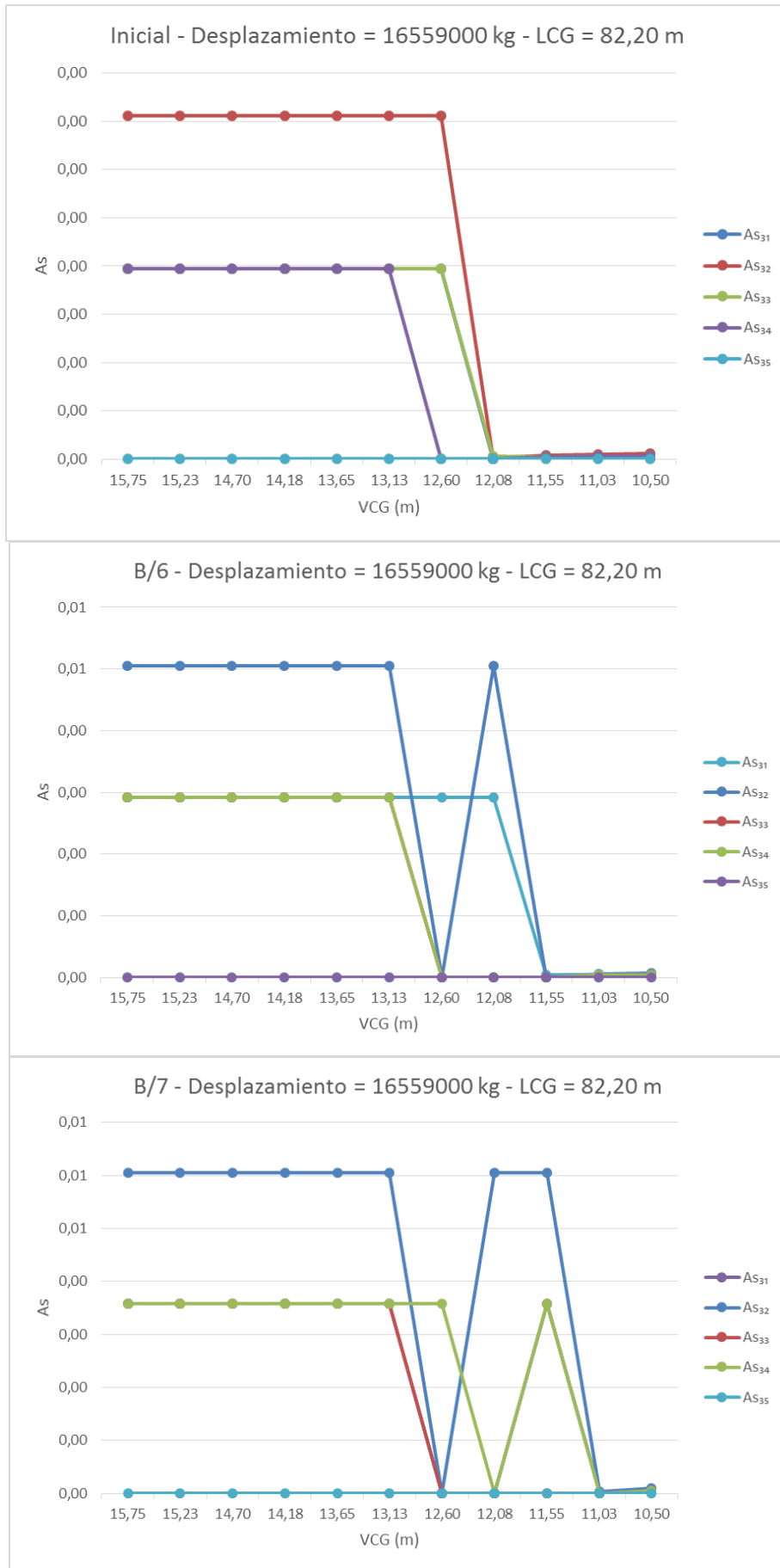


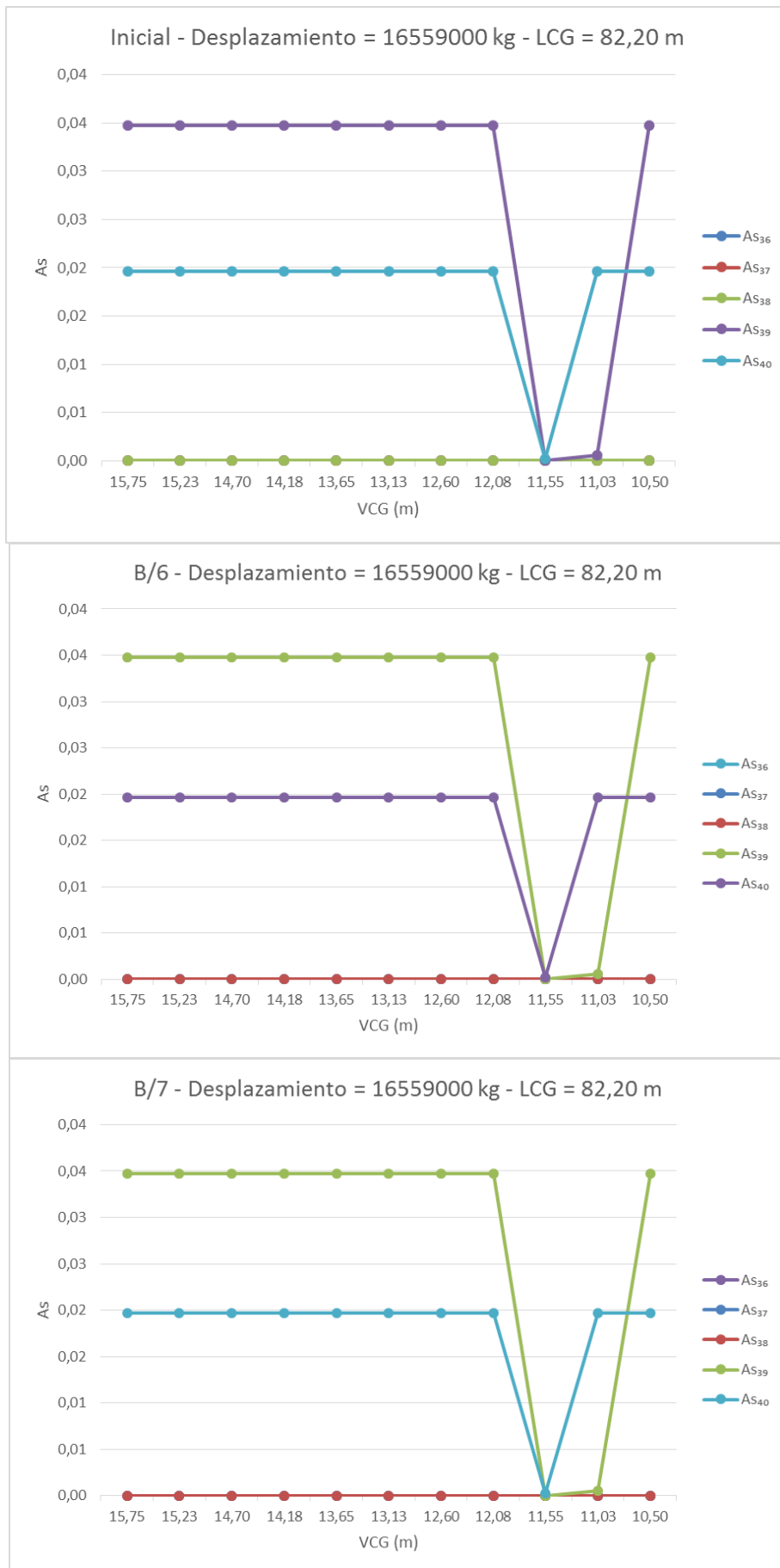


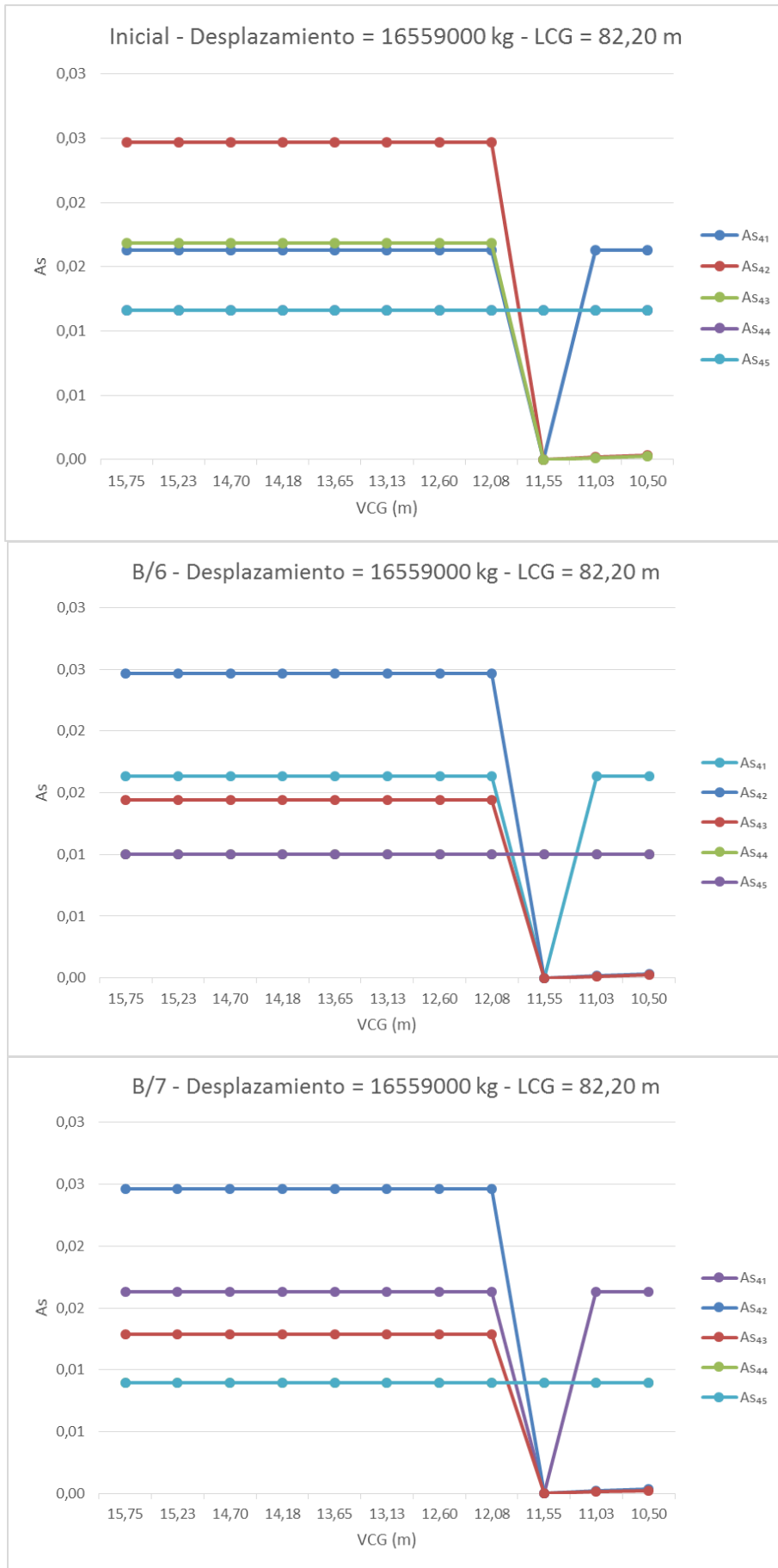


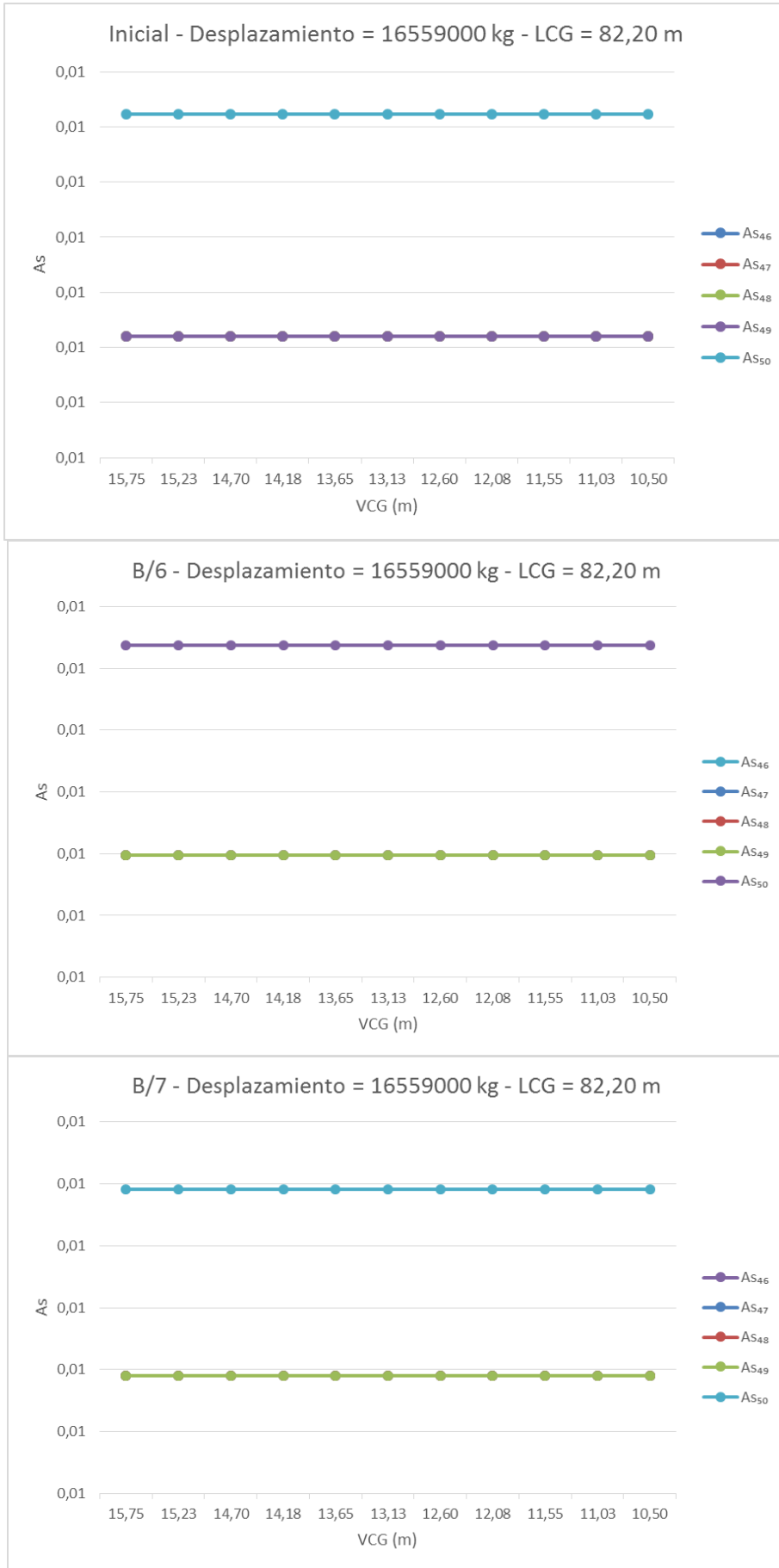


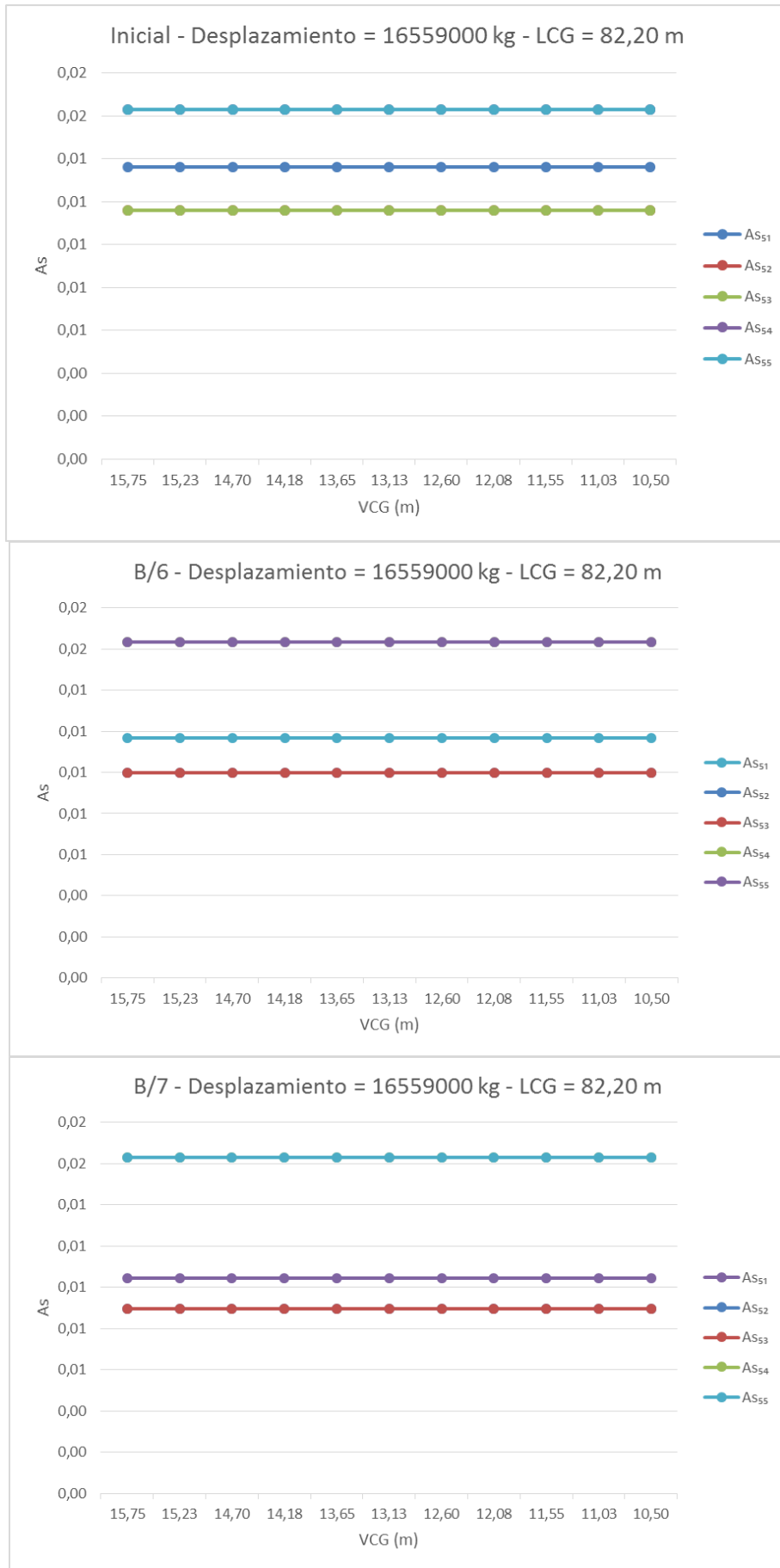


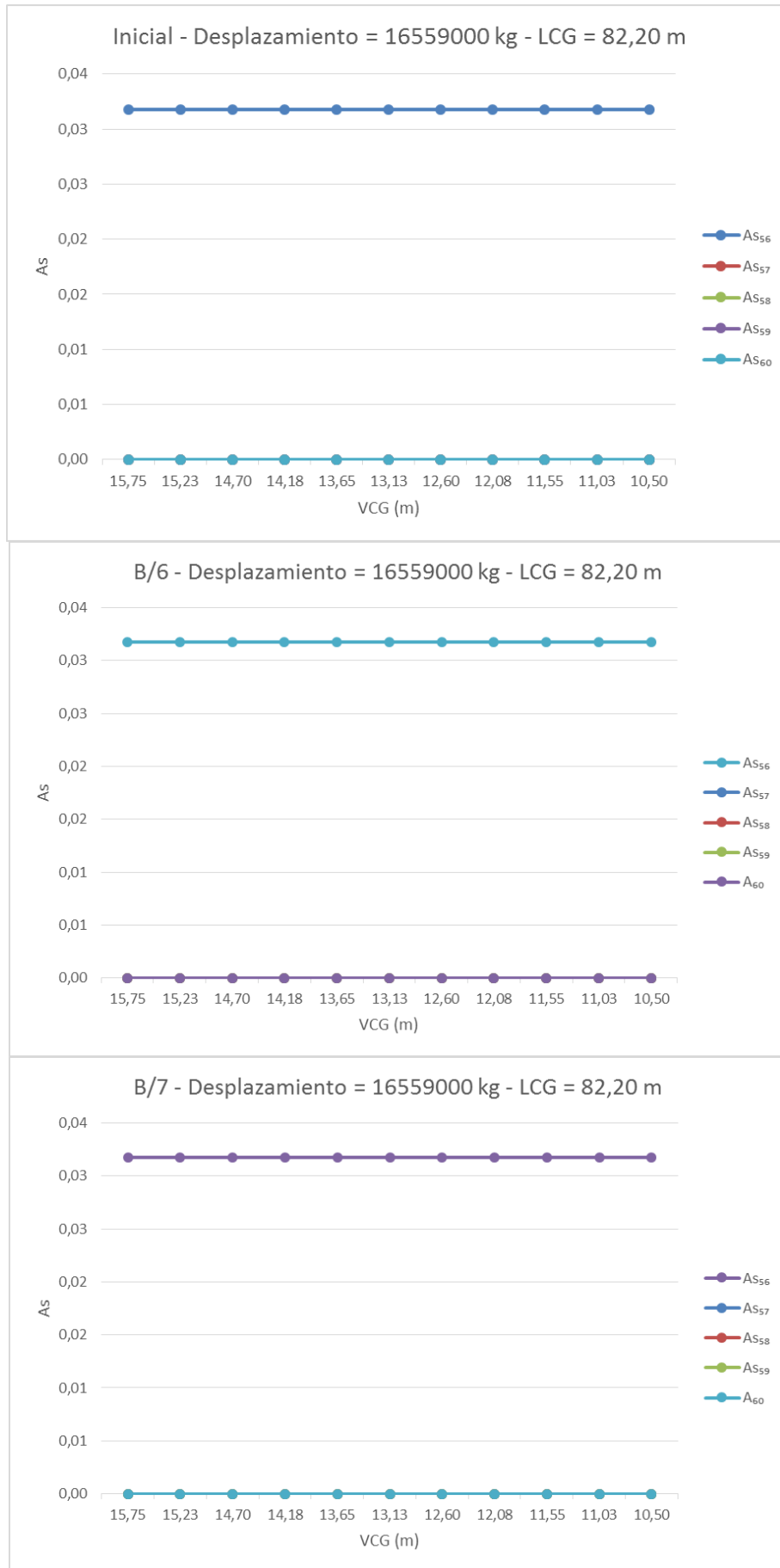


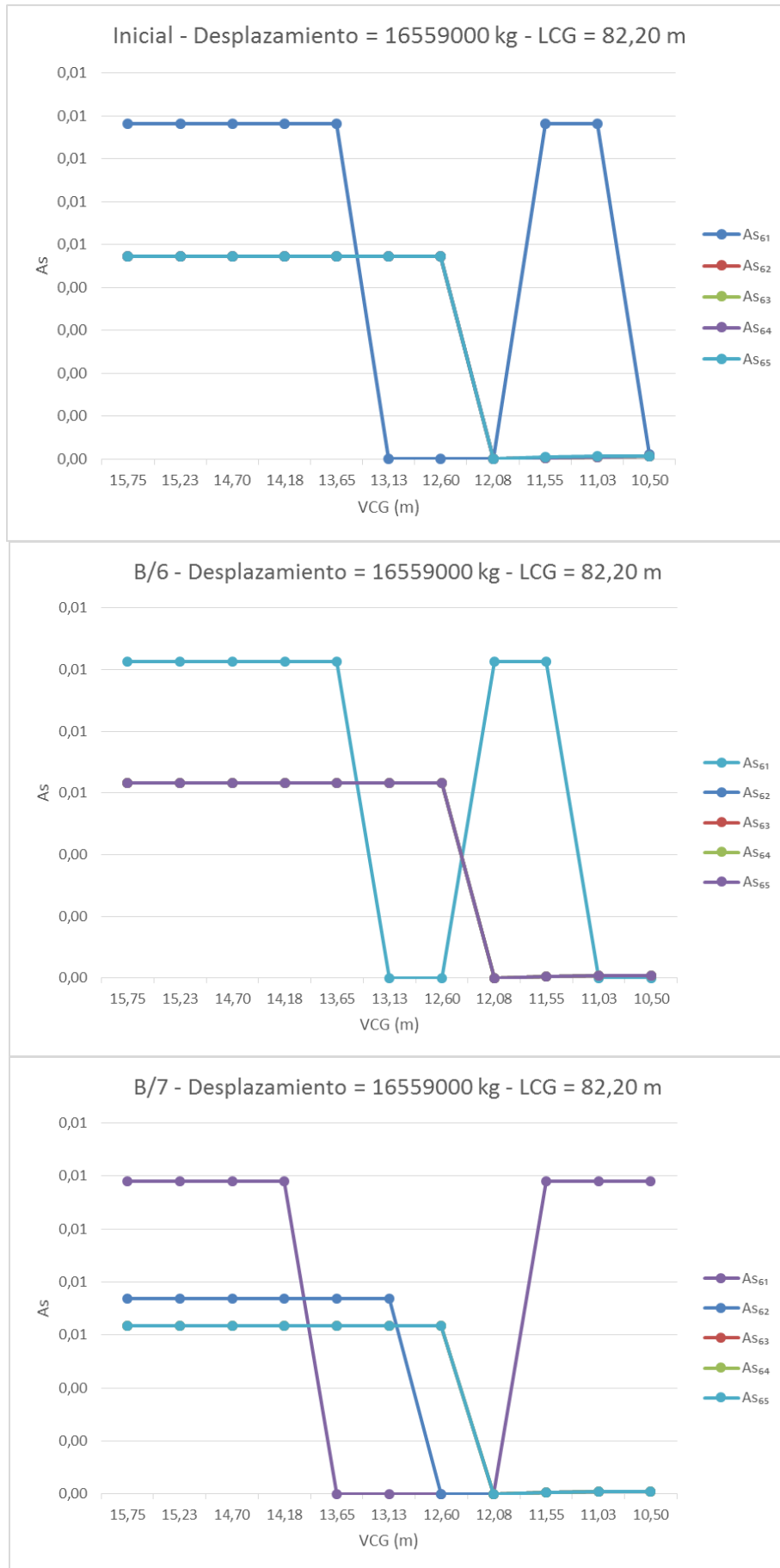


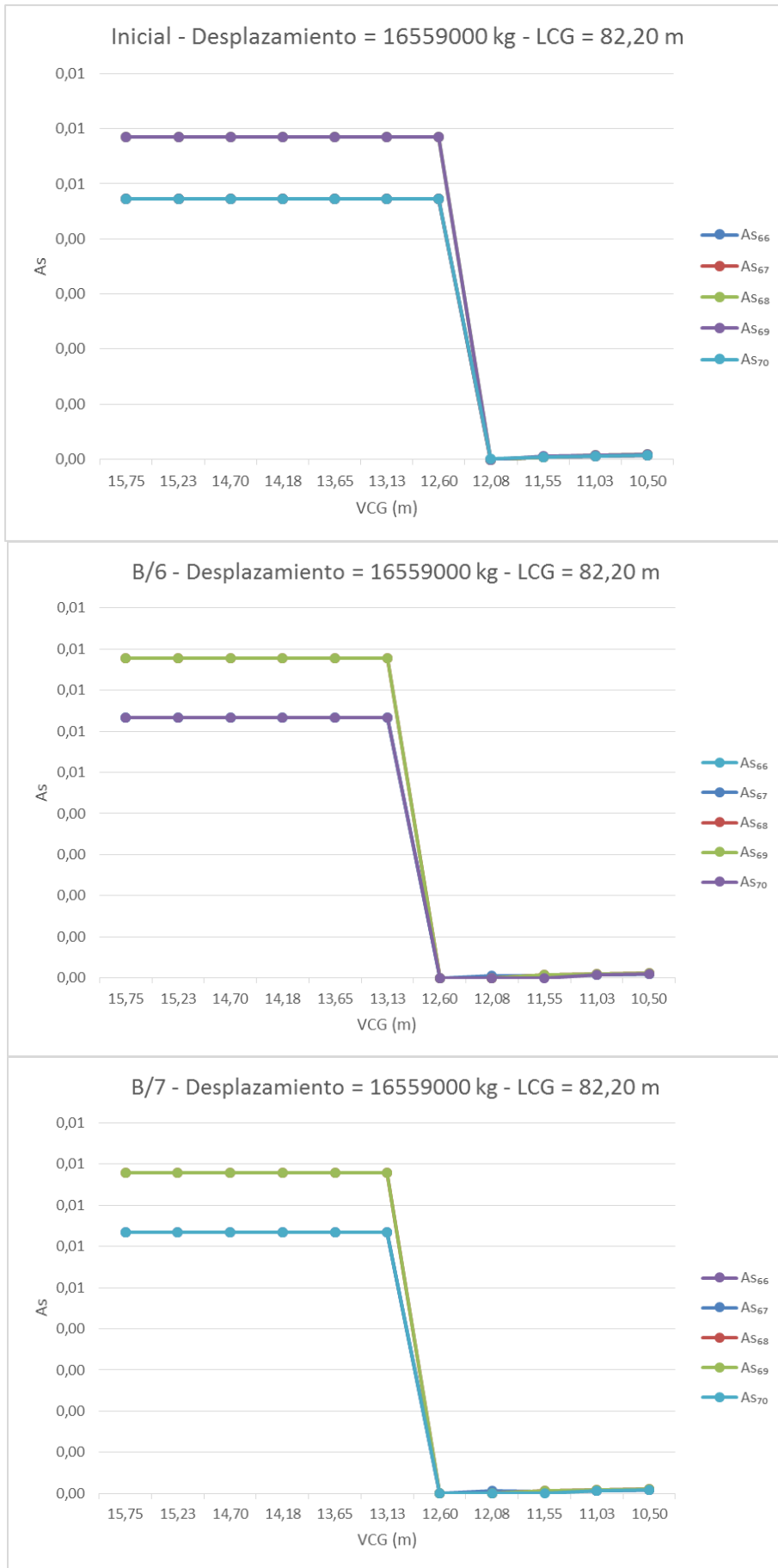


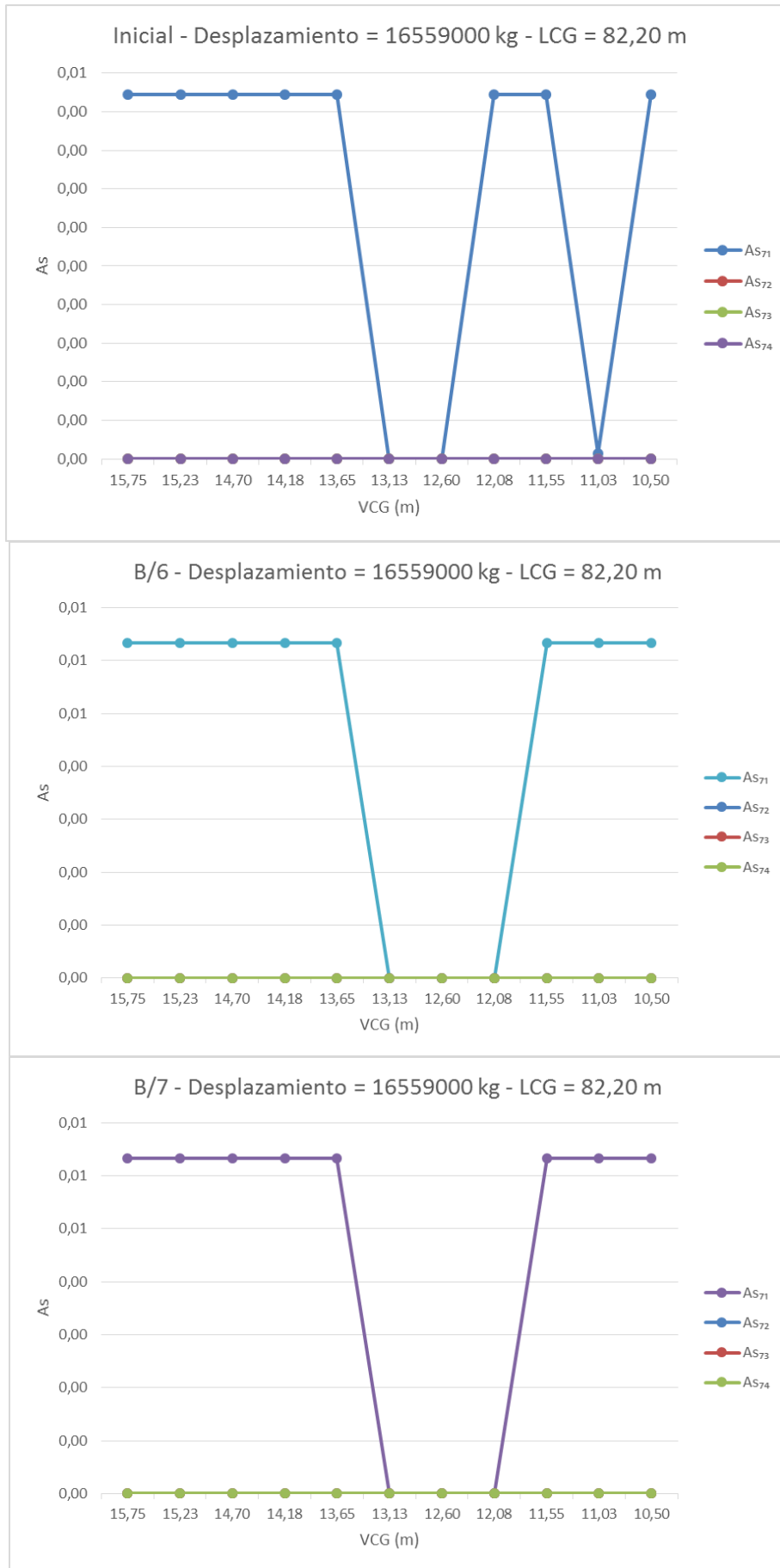












7.- Tratamiento de los resultados.

Con el fin de poder gestionar la gran cantidad de resultados obtenidos, se procede a plantear la siguiente macro, mediante la cual, introduciendo los valores de Desplazamiento, LCG y VCG, se obtendrá el ángulo de escora, ángulo de trimado y As correspondiente:

```

Sub TratamientoResultados ()

    Dim RangoDatos1 As Range
    Dim RangoDatos2 As Range
    Dim RangoDatos3 As Range
    Dim RangoTabla As Range

    Dim ValorObjetivo1 As String
    Dim ValorObjetivo2 As String
    Dim ValorObjetivo3 As String
    Dim ultimacelda As String

    Dim UltimaFilaHojal As Integer
    Dim UltimacolumnaHojal As Integer

    Hojal.Cells(1, 9) = InputBox("¿Cual es el valor del Desplazamiento en kg?")
    Hojal.Cells(1, 10) = InputBox("¿Cual es el valor del LCG en m?")
    Hojal.Cells(1, 11) = InputBox("¿Cual es el valor del VCG en m?")

    Set RangoDatos1 = Nothing
    Set RangoDatos2 = Nothing
    Set RangoDatos3 = Nothing

    If ActiveSheet.FilterMode Then ActiveSheet.ShowAllData
    UltimaFilaHojal = Cells(Rows.Count, 1).End(xlUp).Row
    UltimacolumnaHojal = ActiveCell.SpecialCells(xlCellTypeLastCell).Column

    ultimacelda = Cells(UltimaFilaHojal, UltimacolumnaHojal)
    Set RangoTabla = Range("a2", Cells(UltimaFilaHojal, UltimacolumnaHojal))

    Set RangoDatos1 = Range("B3", Cells(UltimaFilaHojal, 2))
    ValorObjetivo1 = Evaluate("-INDEX(" & RangoDatos1.Address & ",MATCH(MIN(INDEX(ABS(" & RangoDatos1.Address & "-$I$1),,)),INDEX(ABS(" & RangoDatos1.Address & "-$I$1),,)),0,))")

    RangoTabla.AutoFilter Field:-2, Criterial:-ValorObjetivo1, Operator:-xlAnd

    Set RangoDatos2 = Application.Intersect(Range("C3", Cells(UltimaFilaHojal, 3)), Range("C2").CurrentRegion.SpecialCells(xlCellTypeVisible))
    RangoDatos2.Select
    ValorObjetivo2 = Evaluate("-INDEX(" & RangoDatos2.Address & ",MATCH(MIN(INDEX(ABS(" & RangoDatos2.Address & "-$J$1),,)),INDEX(ABS(" & RangoDatos2.Address & "-$J$1),,)),0,))")
    ValorObjetivo2 = FormatNumber(ValorObjetivo2, 2)

    RangoTabla.AutoFilter Field:-3, Criterial:-ValorObjetivo2, Operator:-xlAnd

    Set RangoDatos3 = Application.Intersect(Range("E3", Cells(UltimaFilaHojal, 5)), Range("E2").CurrentRegion.SpecialCells(xlCellTypeVisible))
    ValorObjetivo3 = Evaluate("-INDEX(" & RangoDatos3.Address & ",MATCH(MIN(INDEX(ABS(" & RangoDatos3.Address & "-$K$1),,)),INDEX(ABS(" & RangoDatos3.Address & "-$K$1),,)),0,))")
    ValorObjetivo3 = FormatNumber(ValorObjetivo3, 2)

    RangoTabla.AutoFilter Field:-5, Criterial:-ValorObjetivo3, Operator:-xlAnd

End Sub

```


	A	B	C	D	E	F	G	H	
							EJECUTAR		
	Disposicion	Displacement	LCG	TCG	VCG	Θ_{e_1}	Θ_{e_2}	Θ_{e_3}	Θ_{e_4}
3	B6	12419250	61,65	0,00	10,50	0,00	0,00	-1,05	
4	B6	12419250	65,76	0,00	10,50	0,00	0,00	-0,95	
5	B6	12419250	69,87	0,00	10,50	0,00	0,00	-0,70	
6								-0,51	
7								-0,55	
8								-0,36	
9								-0,36	
10								-0,40	
11								-0,46	
12								-0,54	
13								-0,65	
14								-0,81	
15								-1,08	
16	B6	12419250	82,20	0,00	14,18	0,00	0,00	-1,62	
17	B6	12419250	82,20	0,00	14,70	0,00	0,00	-2,32	
18	B6	12419250	82,20	0,00	15,23	0,00	0,00	-5,00	
19	B6	12419250	82,20	0,00	15,75	0,00	0,00	-180,00	
20	B6	12419250	86,34	0,00	10,50	0,00	0,00	0,00	

Microsoft Excel

¿Cual es el valor del Desplazamiento en kg?

Aceptar

Cancelar

20000000

(Imagen correspondiente al Excel con la macro planteada en el párrafo anterior)

	A	B	C	D	E	F	G	H	
							EJECUTAR		
	Disposicion	Displacement	LCG	TCG	VCG	Θ_{e_1}	Θ_{e_2}	Θ_{e_3}	Θ_{e_4}
3	B6	12419250	61,65	0,00	10,50	0,00	0,00	-1,05	
4	B6	12419250	65,76	0,00	10,50	0,00	0,00	-0,95	
5	B6	12419250	69,87	0,00	10,50	0,00	0,00	-0,70	
6								-0,51	
7								-0,55	
8								-0,36	
9								-0,36	
10								-0,40	
11								-0,46	
12								-0,54	
13								-0,65	
14								-0,81	
15								-1,08	
16	B6	12419250	82,20	0,00	14,18	0,00	0,00	-1,62	
17	B6	12419250	82,20	0,00	14,70	0,00	0,00	-2,32	
18	B6	12419250	82,20	0,00	15,23	0,00	0,00	-5,00	
19	B6	12419250	82,20	0,00	15,75	0,00	0,00	-180,00	
20	B6	12419250	86,34	0,00	10,50	0,00	0,00	0,00	

Microsoft Excel

¿Cual es el valor del LCG en m?

Aceptar

Cancelar

81

(Imagen correspondiente al Excel con la macro planteada en el párrafo anterior)

	A	B	C	D	E	F	G	H	
1								EJECUTAR	
2	Disposicion ▼	Displacement ▼↑	LCG ▼↑	TCG ▼	VCG ▼↑	Θ_{e1} ▼	Θ_{e2} ▼	Θ_{e3} ▼	Θ_{e4}
3	B6	12419250	61,65	0,00	10,50	0,00	0,00	-1,05	
4	B6	12419250	65,76	0,00	10,50	0,00	0,00	-0,95	
5	B6	12419250	69,87	0,00	10,50	0,00	0,00	-0,70	
6								0,00	-0,51
7								0,00	-0,55
8								0,00	-0,36
9								0,00	-0,36
10								0,00	-0,40
11								0,00	-0,46
12								0,00	-0,54
13								0,00	-0,65
14								0,00	-0,81
15								0,00	-1,08
16								0,00	-1,62
17	B6	12419250	82,20	0,00	14,70	0,00	0,00	-2,32	
18	B6	12419250	82,20	0,00	15,23	0,00	0,00	-5,00	
19	B6	12419250	82,20	0,00	15,75	0,00	0,00	-180,00	

Microsoft Excel

¿Cual es el valor del VCG en m?

Aceptar

Cancelar

(Imagen correspondiente al Excel con la macro planteada en el párrafo anterior)

	A	B	C	D	E	F	G	H	
1								EJECUTAR	
2	Disposicion ▼	Displacement ▼↑	LCG ▼↑	TCG ▼	VCG ▼↑	Θ_{e1} ▼	Θ_{e2} ▼	Θ_{e3} ▼	Θ_{e4}
214	B6	19870800	82,20	0,00	14,18	0,00	0,00	-180,00	
245									
246									
247									
248									

(Imagen correspondiente al Excel con la macro planteada en el párrafo anterior)

8.- Conclusiones.

Sistema:

1. El sistema planteado permite el análisis de la estabilidad en avería mediante el uso de Metamodelos de diferentes Modelos.
2. El sistema planteado permite el análisis de infinidad de combinaciones para cada uno de los Metamodelos planteados.
3. El sistema planteado permite el tratamiento de los resultados, consiguiendo una automatización a la hora de consultarlos.

Aplicación del Sistema al buque ejemplo:

4. En los resúmenes de los resultados (Angulo de trimado y ángulo de escora) de cada uno de los modelos planteados (Buque ejemplo inicial, con mamparo longitudinal en B/6 y B/7) se observa el patrón seguido por los resultados, al aumentar el valor de VCG y al aumentar o disminuir el valor de LCG, el grado en el que influyen el VCG y LCG en los ángulos de escora, ángulos de trimado y As_i se verá influido por el valor del desplazamiento en cada combinación considerada.
5. A medida que se disminuye la distancia desde el costado al mamparo longitudinal:
 - a. Disminuye el valor de los ángulo de escora para las averías que solo afectan hasta el mamparo longitudinal.
 - b. Aumenta la probabilidad de sufrir una avería que traspase el mamparo longitudinal.
 - c. Disminuye la probabilidad de sufrir una avería hasta el mamparo longitudinal.
 - d. Aumenta la influencia en el valor de As_i de las averías que traspasan el mamparo longitudinal.
 - e. Disminuye la influencia en el valor de As_i de las averías hasta el mamparo longitudinal
6. A medida que disminuye la distancia desde el costado al mamparo longitudinal, la seguridad del buque (As_i) se ve mermada.

9.- Bibliografía.

Georgiev, P. G. 2008. Implementation of metamodels in ship design. Maritime Industry, Ocean Engineering and Coastal Resources, eds. C. Guedes Soares & P. Kolev, Taylor & Francis Group, London, 2008, pp. 419-428.

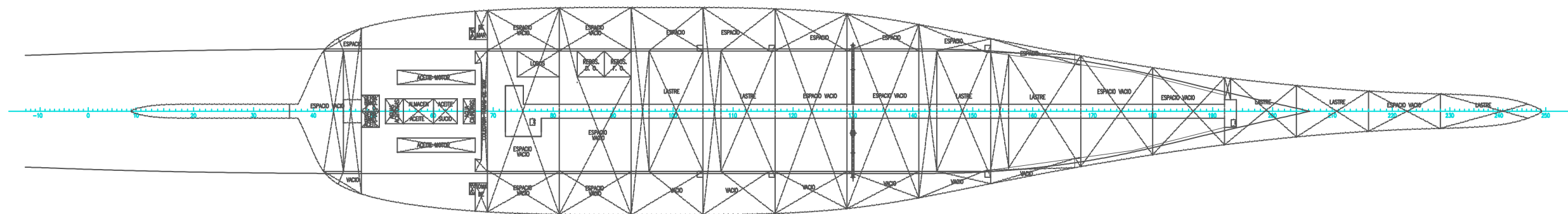
Georgiev, P. 2011. Safety analyses for bulk carriers using metamodels of still water loads. Advances in Marine Structures - Guedes Soares & Fricke (eds), Taylor & Francis Group, London, UK, pp. 669-677. ISBN 978-0-415-67771-4.

Georgiev, P., Naydenov, L. 2012. Implementation of computer experiments for damage stability analysis. Third International Congress “50 Anniversary Technical University of Varna”, 04-06 October, Varna, Vol. 5, pp. 75-80, ISBN 978-954-20-0554-4 Vol.5.


Naydenov, L., Georgiev P. 2014. Probabilistic analysis of damage stability of ships based on metamodels. Developments in Maritime Transportation and Exploitation of Sea Resources, Guedes Soares & López Peña (eds), Taylor & Francis Group, London, ISBN 978-1-138-00124-4, pp 769-777.

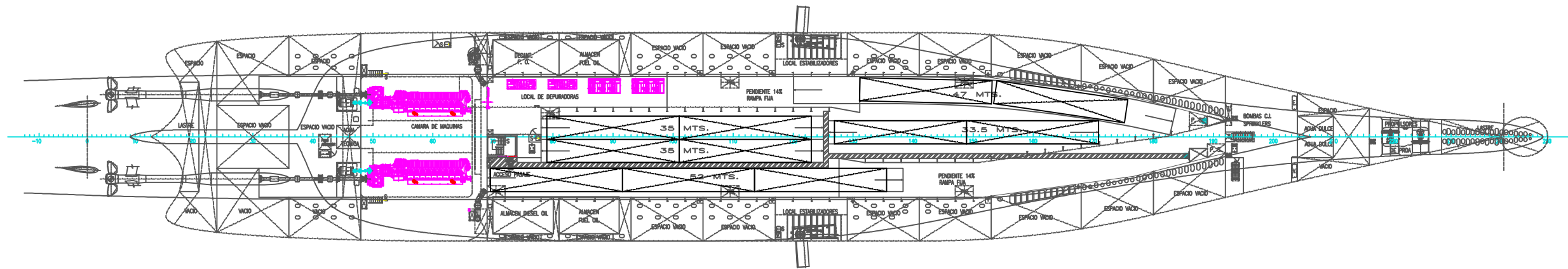
Table with columns for Disposition, Displacement, LCC, TCG, VCG, and various UG values (UG1-UG30) for multiple rows (e.g., 20697500, 20697500, etc.). The table contains a large amount of numerical data.

Table with columns: Descripcion, Displacement, LCC, TVC, VCG, and AS1 to AS70, followed by A0, A1, Result. It lists various displacement values and corresponding AS and A parameters for each row.




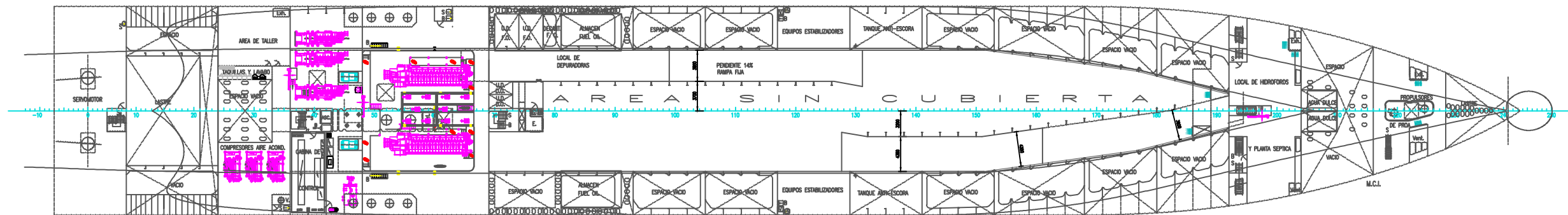
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 MANGA DE TRAZADO..... 26.00 m
 PUNTAL A LA CUBIERTA PRINCIPAL.. 9.20 m
 PUNTAL A LA CUBIERTA SUPERIOR.. 14.50 m
 CALADO DE ESCANTILLONADO..... 6.30 m
 PASAJE..... 900 personas
 TRIPULACIÓN..... 36 personas

 UNIVERSIDADE DA CORUÑA		E.P.S. MASTER EN INGENIERÍA NAVAL Y OCEÁNICA	TRABAJO FIN DE MASTER 2015 - 2016
TÍTULO DEL PROYECTO: ANÁLISIS DE LA ESTABILIDAD DEL BUQUE EN ESTADO DE AVERÍA			
TÍTULO DEL PLANO: CUBIERTA FONDO		FECHA: FEBRERO 2016	
AUTOR: MARÍA DE LA LUZ MURAS CASAS		FIRMA:	
		ESCALA: 1:600	
		PLANO Nº: 1 / 8	




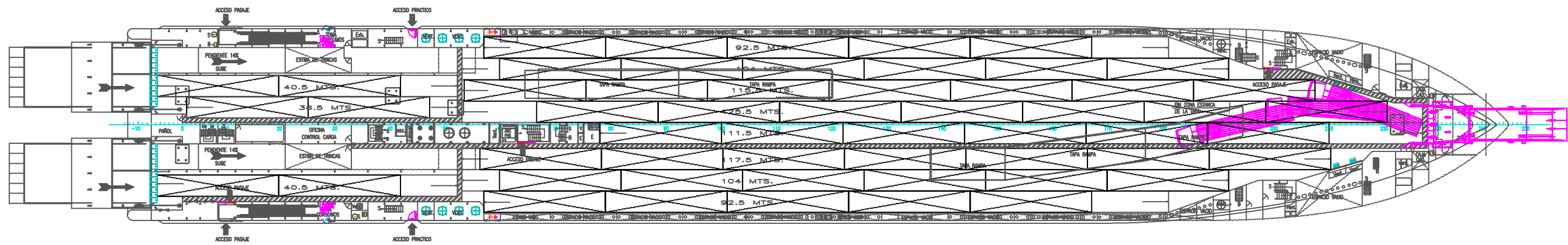
ESLORA TOTAL.....190.00 m
 MANGA DE TRAZADO..... 26.00 m
 PUNTA A LA CUBIERTA PRINCIPAL.. 9.20 m
 PUNTA A LA CUBIERTA SUPERIOR.. 14.50 m
 CALADO DE ESCANTILLONADO..... 6.30 m
 PASAJE..... 900 personas
 TRIPULACIÓN..... 36 personas

 UNIVERSIDADE DA CORUÑA		E.P.S. MASTER EN INGENIERÍA NAVAL Y OCEÁNICA	TRABAJO FIN DE MASTER 2015 - 2016
TÍTULO DEL PROYECTO: ANÁLISIS DE LA ESTABILIDAD DEL BUQUE EN ESTADO DE AVERÍA			
TÍTULO DEL PLANO: CUBIERTA DOBLE FONDO		FECHA: FEBRERO 2016	
AUTOR: MARÍA DE LA LUZ MURAS CASAS		FIRMA:	
		ESCALA: 1:600	
		PLANO Nº: 2 / 8	




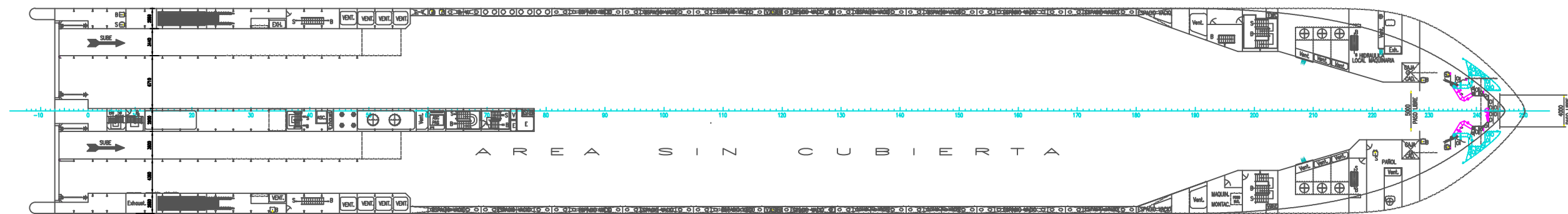
ESLORA TOTAL.....190.00 m
 MANGA DE TRAZADO..... 26.00 m
 PUNTAL A LA CUBIERTA PRINCIPAL.. 9.20 m
 PUNTAL A LA CUBIERTA SUPERIOR.. 14.50 m
 CALADO DE ESCANTILLONADO..... 6.30 m
 PASAJE..... 900 personas
 TRIPULACIÓN..... 36 personas

 UNIVERSIDADE DA CORUÑA	E.P.S. MASTER EN INGENIERÍA NAVAL Y OCEÁNICA	TRABAJO FIN DE MASTER	
		2015 - 2016	
TÍTULO DEL PROYECTO: ANÁLISIS DE LA ESTABILIDAD DEL BUQUE EN ESTADO DE AVERÍA			
TÍTULO DEL PLANO: CUBIERTA INTERMEDIA		FECHA: FEBRERO 2016	
AUTOR: MARÍA DE LA LUZ MURAS CASAS		FIRMA:	
		ESCALA: 1:600	
		PLANO Nº: 3 / 8	




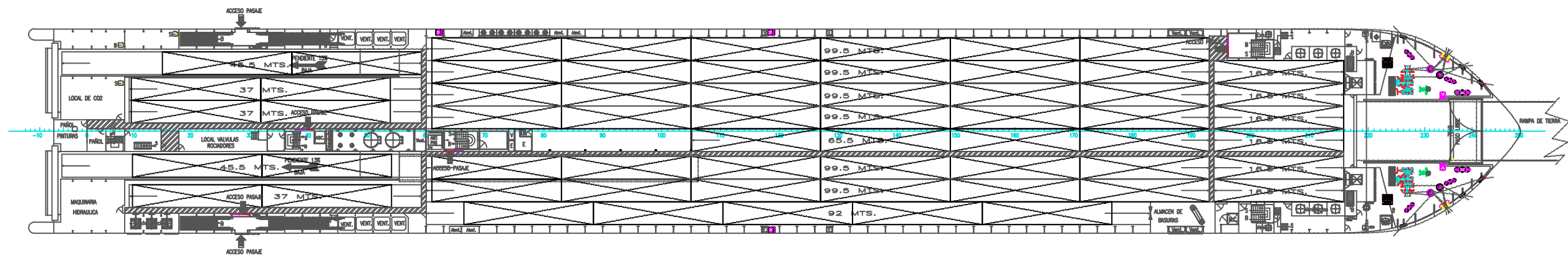
ESLORA TOTAL.....190.00 m
 MANGA DE TRAZADO..... 26.00 m
 PUNTA A LA CUBIERTA PRINCIPAL.. 9.20 m
 PUNTA A LA CUBIERTA SUPERIOR.. 14.50 m
 CALADO DE ESCANTILLONADO..... 6.30 m
 PASAJE..... 900 personas
 TRIPULACIÓN..... 36 personas

 UNIVERSIDADE DA CORUÑA	E.P.S. MASTER EN INGENIERÍA NAVAL Y OCEÁNICA	TRABAJO FIN DE MASTER	
		2015 - 2016	
TÍTULO DEL PROYECTO: ANÁLISIS DE LA ESTABILIDAD DEL BUQUE EN ESTADO DE AVERÍA			
TÍTULO DEL PLANO: CUBIERTA PRINCIPAL		FECHA: FEBRERO 2016	
AUTOR: MARÍA DE LA LUZ MURAS CASAS		FIRMA:	
		ESCALA: 1:600	
		PLANO Nº: 4 / 8	




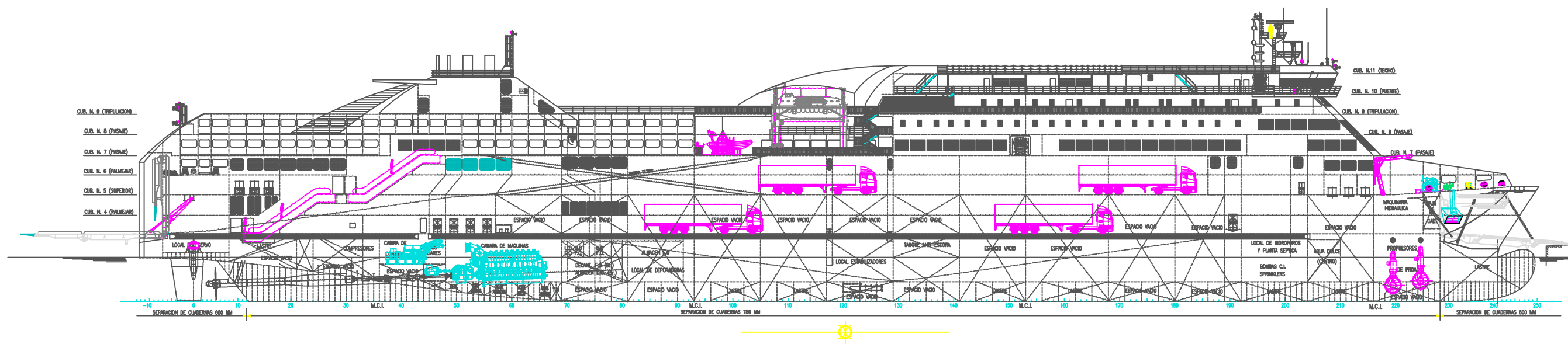
ESLORA TOTAL.....190.00 m
 MANGA DE TRAZADO..... 26.00 m
 PUNTAL A LA CUBIERTA PRINCIPAL.. 9.20 m
 PUNTAL A LA CUBIERTA SUPERIOR.. 14.50 m
 CALADO DE ESCANTILLONADO..... 6.30 m
 PASAJE..... 900 personas
 TRIPULACIÓN..... 36 personas

 UNIVERSIDADE DA CORUÑA	E.P.S. MASTER EN INGENIERÍA NAVAL Y OCEÁNICA	TRABAJO FIN DE MASTER	
		2015 - 2016	
TÍTULO DEL PROYECTO: ANÁLISIS DE LA ESTABILIDAD DEL BUQUE EN ESTADO DE AVERÍA			
TÍTULO DEL PLANO: CUBIERTA PALMEJAR		FECHA: FEBRERO 2016	
AUTOR: MARÍA DE LA LUZ MURAS CASAS		FIRMA:	
		ESCALA: 1:600	
		PLANO Nº: 5 / 8	




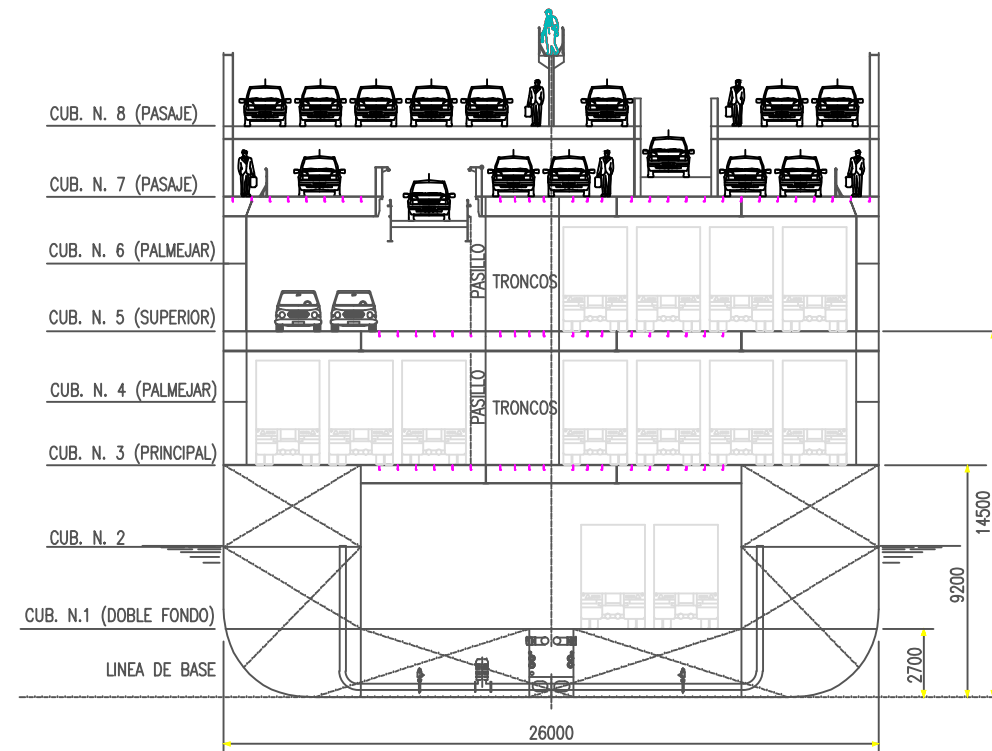
ESLORA TOTAL.....190.00 m
 MANGA DE TRAZADO..... 26.00 m
 PUNTA A LA CUBIERTA PRINCIPAL.. 9.20 m
 PUNTA A LA CUBIERTA SUPERIOR.. 14.50 m
 CALADO DE ESCANTILLONADO..... 6.30 m
 PASAJE..... 900 personas
 TRIPULACIÓN..... 36 personas

 UNIVERSIDADE DA CORUÑA		E.P.S. MASTER EN INGENIERÍA NAVAL Y OCEÁNICA	TRABAJO FIN DE MASTER 2015 - 2016
TÍTULO DEL PROYECTO: ANÁLISIS DE LA ESTABILIDAD DEL BUQUE EN ESTADO DE AVERÍA			
TÍTULO DEL PLANO: CUBIERTA SUPERIOR			FECHA: FEBRERO 2016
AUTOR: MARÍA DE LA LUZ MURAS CASAS		FIRMA:	ESCALA: 1:600 PLANO Nº: 6 / 8




ESLORA TOTAL.....190.00 m
 MANGA DE TRAZADO..... 26.00 m
 PUNTAL A LA CUBIERTA PRINCIPAL.. 9.20 m
 PUNTAL A LA CUBIERTA SUPERIOR.. 14.50 m
 CALADO DE ESCANTILLONADO..... 6.30 m
 PASAJE..... 900 personas
 TRIPULACION..... 36 personas

 UNIVERSIDADE DA CORUÑA		E.P.S. MASTER EN INGENIERÍA NAVAL Y OCEÁNICA	TRABAJO FIN DE MASTER 2015 - 2016
TÍTULO DEL PROYECTO: ANÁLISIS DE LA ESTABILIDAD DEL BUQUE EN ESTADO DE AVERÍA			
TÍTULO DEL PLANO: SECCIÓN PERFIL			FECHA: FEBRERO 2016
AUTOR: MARÍA DE LA LUZ MURAS CASAS		FIRMA:	
			ESCALA: 1:600 PLANO Nº: 7 / 8



ESLORA TOTAL.....190.00 m
 MANGA DE TRAZADO..... 26.00 m
 PUNTAL A LA CUBIERTA PRINCIPAL.. 9.20 m
 PUNTAL A LA CUBIERTA SUPERIOR.. 14.50 m
 CALADO DE ESCANTILLONADO..... 6.30 m
 PASAJE..... 900 personas
 TRIPULACIÓN..... 36 personas

 UNIVERSIDADE DA CORUÑA		E.P.S. MASTER EN INGENIERÍA NAVAL Y OCEÁNICA	TRABAJO FIN DE MASTER 2015 - 2016
TÍTULO DEL PROYECTO: ANÁLISIS DE LA ESTABILIDAD DEL BUQUE EN ESTADO DE AVERÍA			
TÍTULO DEL PLANO: CUADERNA MAESTRA			FECHA: FEBRERO 2016
AUTOR: MARÍA DE LA LUZ MURAS CASAS		FIRMA:	
			ESCALA: 1:300 PLANO Nº: 8 / 8

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
1	1	-7,884	-12,339	6	Surface 2	Internal	DWL
2	1	-7,884	12,339	6	Surface 25	Internal	DWL
3	1	-7,884	0	5,561	Surface 2	Left	Edge: Surface 2, Left
4	1	-7,884	-12,701	6,393	Surface 2	Right	Edge: Surface 2, Right
5	1	-7,884	-12,701	6,393	Surface 8	Left	Edge: Surface 8, Left
6	1	-7,884	-13	7,499	Surface 8	Right	Edge: Surface 8, Right
7	1	-7,884	-13	7,499	Surface 11	Left	Edge: Surface 11, Left
8	1	-7,884	-13	20	Surface 11	Right	Edge: Surface 11, Right
9	1	-7,884	13	7,499	Surface 22	Top	Edge: Surface 22, Top
10	1	-7,884	12,701	6,393	Surface 22	Bottom	Edge: Surface 22, Bottom
11	1	-7,884	12,701	6,393	Surface 25	Top	Edge: Surface 25, Top
12	1	-7,884	0	5,561	Surface 25	Bottom	Edge: Surface 25, Bottom
13	1	-7,884	13	20	Surface 28	Top	Edge: Surface 28, Top
14	1	-7,884	13	7,499	Surface 28	Bottom	Edge: Surface 28, Bottom
15	2	-7,115	-12,341	6	Surface 2	Internal	DWL
16	2	-7,115	12,341	6	Surface 25	Internal	DWL
17	2	-7,115	0	5,642	Surface 2	Left	Edge: Surface 2, Left
18	2	-7,115	-12,702	6,381	Surface 2	Right	Edge: Surface 2, Right
19	2	-7,115	-12,702	6,381	Surface 8	Left	Edge: Surface 8, Left
20	2	-7,115	-13	7,485	Surface 8	Right	Edge: Surface 8, Right
21	2	-7,115	-13	7,485	Surface 11	Left	Edge: Surface 11, Left
22	2	-7,115	-13	20	Surface 11	Right	Edge: Surface 11, Right
23	2	-7,115	13	7,485	Surface 22	Top	Edge: Surface 22, Top
24	2	-7,115	12,702	6,381	Surface 22	Bottom	Edge: Surface 22, Bottom
25	2	-7,115	12,702	6,381	Surface 25	Top	Edge: Surface 25, Top
26	2	-7,115	0	5,642	Surface 25	Bottom	Edge: Surface 25, Bottom
27	2	-7,115	13	20	Surface 28	Top	Edge: Surface 28, Top
28	2	-7,115	13	7,485	Surface 28	Bottom	Edge: Surface 28, Bottom
29	3	-6,345	-2,933	6	Surface 2	Internal	DWL
30	3	-6,345	-6,462	6	Surface 2	Internal	DWL
31	3	-6,345	-12,338	6	Surface 2	Internal	DWL
32	3	-6,345	2,933	6	Surface 25	Internal	DWL
33	3	-6,345	6,462	6	Surface 25	Internal	DWL
34	3	-6,345	12,338	6	Surface 25	Internal	DWL
35	3	-6,345	0	5,737	Surface 2	Left	Edge: Surface 2, Left
36	3	-6,345	-12,703	6,368	Surface 2	Right	Edge: Surface 2, Right
37	3	-6,345	-12,703	6,368	Surface 8	Left	Edge: Surface 8, Left
38	3	-6,345	-13	7,469	Surface 8	Right	Edge: Surface 8, Right
39	3	-6,345	-13	7,469	Surface 11	Left	Edge: Surface 11, Left
40	3	-6,345	-13	20	Surface 11	Right	Edge: Surface 11, Right
41	3	-6,345	13	7,469	Surface 22	Top	Edge: Surface 22, Top
42	3	-6,345	12,703	6,368	Surface 22	Bottom	Edge: Surface 22, Bottom
43	3	-6,345	12,703	6,368	Surface 25	Top	Edge: Surface 25, Top
44	3	-6,345	0	5,737	Surface 25	Bottom	Edge: Surface 25, Bottom
45	3	-6,345	13	20	Surface 28	Top	Edge: Surface 28, Top
46	3	-6,345	13	7,469	Surface 28	Bottom	Edge: Surface 28, Bottom
47	4	-5,575	-1,782	6	Surface 2	Internal	DWL
48	4	-5,575	-7,706	6	Surface 2	Internal	DWL
49	4	-5,575	-12,334	6	Surface 2	Internal	DWL

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
50	4	-5,575	1,782	6	Surface 25	Internal	DWL
51	4	-5,575	7,706	6	Surface 25	Internal	DWL
52	4	-5,575	12,334	6	Surface 25	Internal	DWL
53	4	-5,575	0	5,824	Surface 2	Left	Edge: Surface 2, Left
54	4	-5,575	-12,704	6,354	Surface 2	Right	Edge: Surface 2, Right
55	4	-5,575	-12,704	6,354	Surface 8	Left	Edge: Surface 8, Left
56	4	-5,575	-13	7,454	Surface 8	Right	Edge: Surface 8, Right
57	4	-5,575	-13	7,454	Surface 11	Left	Edge: Surface 11, Left
58	4	-5,575	-13	20	Surface 11	Right	Edge: Surface 11, Right
59	4	-5,575	13	7,454	Surface 22	Top	Edge: Surface 22, Top
60	4	-5,575	12,704	6,354	Surface 22	Bottom	Edge: Surface 22, Bottom
61	4	-5,575	12,704	6,354	Surface 25	Top	Edge: Surface 25, Top
62	4	-5,575	0	5,824	Surface 25	Bottom	Edge: Surface 25, Bottom
63	4	-5,575	13	20	Surface 28	Top	Edge: Surface 28, Top
64	4	-5,575	13	7,454	Surface 28	Bottom	Edge: Surface 28, Bottom
65	5	-4,805	-1,207	6	Surface 2	Internal	DWL
66	5	-4,805	-8,307	6	Surface 2	Internal	DWL
67	5	-4,805	-12,336	6	Surface 2	Internal	DWL
68	5	-4,805	1,207	6	Surface 25	Internal	DWL
69	5	-4,805	8,307	6	Surface 25	Internal	DWL
70	5	-4,805	12,336	6	Surface 25	Internal	DWL
71	5	-4,805	0	5,883	Surface 2	Left	Edge: Surface 2, Left
72	5	-4,805	-12,705	6,341	Surface 2	Right	Edge: Surface 2, Right
73	5	-4,805	-12,705	6,341	Surface 8	Left	Edge: Surface 8, Left
74	5	-4,805	-13	7,438	Surface 8	Right	Edge: Surface 8, Right
75	5	-4,805	-13	7,438	Surface 11	Left	Edge: Surface 11, Left
76	5	-4,805	-13	20	Surface 11	Right	Edge: Surface 11, Right
77	5	-4,805	13	7,438	Surface 22	Top	Edge: Surface 22, Top
78	5	-4,805	12,705	6,341	Surface 22	Bottom	Edge: Surface 22, Bottom
79	5	-4,805	12,705	6,341	Surface 25	Top	Edge: Surface 25, Top
80	5	-4,805	0	5,883	Surface 25	Bottom	Edge: Surface 25, Bottom
81	5	-4,805	13	20	Surface 28	Top	Edge: Surface 28, Top
82	5	-4,805	13	7,438	Surface 28	Bottom	Edge: Surface 28, Bottom
83	6	-4,035	-1,114	6	Surface 14	Internal	DWL
84	6	-4,035	-8,36	6	Surface 14	Internal	DWL
85	6	-4,035	-12,35	6	Surface 14	Internal	DWL
86	6	-4,035	1,114	6	Surface 30	Internal	DWL
87	6	-4,035	8,36	6	Surface 30	Internal	DWL
88	6	-4,035	12,35	6	Surface 30	Internal	DWL
89	6	-4,035	-13	7,422	Surface 11	Left	Edge: Surface 11, Left
90	6	-4,035	-13	20	Surface 11	Right	Edge: Surface 11, Right
91	6	-4,035	0	5,894	Surface 14	Left	Edge: Surface 14, Left
92	6	-4,035	-13	7,422	Surface 14	Right	Edge: Surface 14, Right
93	6	-4,035	13	20	Surface 28	Top	Edge: Surface 28, Top
94	6	-4,035	13	7,422	Surface 28	Bottom	Edge: Surface 28, Bottom
95	6	-4,035	13	7,422	Surface 30	Top	Edge: Surface 30, Top
96	6	-4,035	0	5,894	Surface 30	Bottom	Edge: Surface 30, Bottom
97	7	-3,265	-1,267	6	Surface 14	Internal	DWL
98	7	-3,265	-8,117	6	Surface 14	Internal	DWL

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
99	7	-3,265	-12,378	6	Surface 14	Internal	DWL
100	7	-3,265	1,267	6	Surface 30	Internal	DWL
101	7	-3,265	8,117	6	Surface 30	Internal	DWL
102	7	-3,265	12,378	6	Surface 30	Internal	DWL
103	7	-3,265	-13	7,405	Surface 11	Left	Edge: Surface 11, Left
104	7	-3,265	-13	20	Surface 11	Right	Edge: Surface 11, Right
105	7	-3,265	0	5,875	Surface 14	Left	Edge: Surface 14, Left
106	7	-3,265	-13	7,405	Surface 14	Right	Edge: Surface 14, Right
107	7	-3,265	13	20	Surface 28	Top	Edge: Surface 28, Top
108	7	-3,265	13	7,405	Surface 28	Bottom	Edge: Surface 28, Bottom
109	7	-3,265	13	7,405	Surface 30	Top	Edge: Surface 30, Top
110	7	-3,265	0	5,875	Surface 30	Bottom	Edge: Surface 30, Bottom
111	8	-2,495	-1,462	6	Surface 14	Internal	DWL
112	8	-2,495	-7,837	6	Surface 14	Internal	DWL
113	8	-2,495	-12,406	6	Surface 14	Internal	DWL
114	8	-2,495	1,462	6	Surface 30	Internal	DWL
115	8	-2,495	7,837	6	Surface 30	Internal	DWL
116	8	-2,495	12,406	6	Surface 30	Internal	DWL
117	8	-2,495	-13	7,388	Surface 11	Left	Edge: Surface 11, Left
118	8	-2,495	-13	20	Surface 11	Right	Edge: Surface 11, Right
119	8	-2,495	0	5,853	Surface 14	Left	Edge: Surface 14, Left
120	8	-2,495	-13	7,388	Surface 14	Right	Edge: Surface 14, Right
121	8	-2,495	13	20	Surface 28	Top	Edge: Surface 28, Top
122	8	-2,495	13	7,388	Surface 28	Bottom	Edge: Surface 28, Bottom
123	8	-2,495	13	7,388	Surface 30	Top	Edge: Surface 30, Top
124	8	-2,495	0	5,853	Surface 30	Bottom	Edge: Surface 30, Bottom
125	9	-1,725	-1,706	6	Surface 14	Internal	DWL
126	9	-1,725	-7,508	6	Surface 14	Internal	DWL
127	9	-1,725	-12,432	6	Surface 14	Internal	DWL
128	9	-1,725	1,706	6	Surface 30	Internal	DWL
129	9	-1,725	7,508	6	Surface 30	Internal	DWL
130	9	-1,725	12,432	6	Surface 30	Internal	DWL
131	9	-1,725	-13	7,371	Surface 11	Left	Edge: Surface 11, Left
132	9	-1,725	-13	20	Surface 11	Right	Edge: Surface 11, Right
133	9	-1,725	0	5,826	Surface 14	Left	Edge: Surface 14, Left
134	9	-1,725	-13	7,371	Surface 14	Right	Edge: Surface 14, Right
135	9	-1,725	13	20	Surface 28	Top	Edge: Surface 28, Top
136	9	-1,725	13	7,371	Surface 28	Bottom	Edge: Surface 28, Bottom
137	9	-1,725	13	7,371	Surface 30	Top	Edge: Surface 30, Top
138	9	-1,725	0	5,826	Surface 30	Bottom	Edge: Surface 30, Bottom
139	10	-0,955	-2,011	6	Surface 14	Internal	DWL
140	10	-0,955	-7,11	6	Surface 14	Internal	DWL
141	10	-0,955	-12,458	6	Surface 14	Internal	DWL
142	10	-0,955	2,011	6	Surface 30	Internal	DWL
143	10	-0,955	7,11	6	Surface 30	Internal	DWL
144	10	-0,955	12,458	6	Surface 30	Internal	DWL
145	10	-0,955	-13	7,353	Surface 11	Left	Edge: Surface 11, Left
146	10	-0,955	-13	20	Surface 11	Right	Edge: Surface 11, Right
147	10	-0,955	0	5,794	Surface 14	Left	Edge: Surface 14, Left

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
148	10	-0,955	-13	7,353	Surface 14	Right	Edge: Surface 14, Right
149	10	-0,955	13	20	Surface 28	Top	Edge: Surface 28, Top
150	10	-0,955	13	7,353	Surface 28	Bottom	Edge: Surface 28, Bottom
151	10	-0,955	13	7,353	Surface 30	Top	Edge: Surface 30, Top
152	10	-0,955	0	5,794	Surface 30	Bottom	Edge: Surface 30, Bottom
153	11	-0,185	-2,404	6	Surface 14	Internal	DWL
154	11	-0,185	-6,608	6	Surface 14	Internal	DWL
155	11	-0,185	-12,483	6	Surface 14	Internal	DWL
156	11	-0,185	2,404	6	Surface 30	Internal	DWL
157	11	-0,185	6,608	6	Surface 30	Internal	DWL
158	11	-0,185	12,483	6	Surface 30	Internal	DWL
159	11	-0,185	-13	7,336	Surface 11	Left	Edge: Surface 11, Left
160	11	-0,185	-13	20	Surface 11	Right	Edge: Surface 11, Right
161	11	-0,185	0	5,757	Surface 14	Left	Edge: Surface 14, Left
162	11	-0,185	-13	7,336	Surface 14	Right	Edge: Surface 14, Right
163	11	-0,185	13	20	Surface 28	Top	Edge: Surface 28, Top
164	11	-0,185	13	7,336	Surface 28	Bottom	Edge: Surface 28, Bottom
165	11	-0,185	13	7,336	Surface 30	Top	Edge: Surface 30, Top
166	11	-0,185	0	5,757	Surface 30	Bottom	Edge: Surface 30, Bottom
167	12	0,585	-3,003	6	Surface 14	Internal	DWL
168	12	0,585	-5,916	6	Surface 14	Internal	DWL
169	12	0,585	-12,507	6	Surface 14	Internal	DWL
170	12	0,585	3,003	6	Surface 30	Internal	DWL
171	12	0,585	5,916	6	Surface 30	Internal	DWL
172	12	0,585	12,507	6	Surface 30	Internal	DWL
173	12	0,585	-13	7,317	Surface 11	Left	Edge: Surface 11, Left
174	12	0,585	-13	20	Surface 11	Right	Edge: Surface 11, Right
175	12	0,585	0	5,716	Surface 14	Left	Edge: Surface 14, Left
176	12	0,585	-13	7,317	Surface 14	Right	Edge: Surface 14, Right
177	12	0,585	13	20	Surface 28	Top	Edge: Surface 28, Top
178	12	0,585	13	7,317	Surface 28	Bottom	Edge: Surface 28, Bottom
179	12	0,585	13	7,317	Surface 30	Top	Edge: Surface 30, Top
180	12	0,585	0	5,716	Surface 30	Bottom	Edge: Surface 30, Bottom
181	13	1,355	-12,531	6	Surface 14	Internal	DWL
182	13	1,355	12,531	6	Surface 30	Internal	DWL
183	13	1,355	-13	7,299	Surface 11	Left	Edge: Surface 11, Left
184	13	1,355	-13	20	Surface 11	Right	Edge: Surface 11, Right
185	13	1,355	0	5,67	Surface 14	Left	Edge: Surface 14, Left
186	13	1,355	-13	7,299	Surface 14	Right	Edge: Surface 14, Right
187	13	1,355	13	20	Surface 28	Top	Edge: Surface 28, Top
188	13	1,355	13	7,299	Surface 28	Bottom	Edge: Surface 28, Bottom
189	13	1,355	13	7,299	Surface 30	Top	Edge: Surface 30, Top
190	13	1,355	0	5,67	Surface 30	Bottom	Edge: Surface 30, Bottom
191	14	2,125	-12,553	6	Surface 14	Internal	DWL
192	14	2,125	12,553	6	Surface 30	Internal	DWL
193	14	2,125	-13	7,28	Surface 11	Left	Edge: Surface 11, Left
194	14	2,125	-13	20	Surface 11	Right	Edge: Surface 11, Right
195	14	2,125	0	5,62	Surface 14	Left	Edge: Surface 14, Left
196	14	2,125	-13	7,28	Surface 14	Right	Edge: Surface 14, Right

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
197	14	2,125	13	20	Surface 28	Top	Edge: Surface 28, Top
198	14	2,125	13	7,28	Surface 28	Bottom	Edge: Surface 28, Bottom
199	14	2,125	13	7,28	Surface 30	Top	Edge: Surface 30, Top
200	14	2,125	0	5,62	Surface 30	Bottom	Edge: Surface 30, Bottom
201	15	2,895	-12,574	6	Surface 14	Internal	DWL
202	15	2,895	12,574	6	Surface 30	Internal	DWL
203	15	2,895	-13	7,261	Surface 11	Left	Edge: Surface 11, Left
204	15	2,895	-13	20	Surface 11	Right	Edge: Surface 11, Right
205	15	2,895	-0,057	5,965	Surface 13	Bottom	Edge: Surface 13, Bottom
206	15	2,895	0	5,917	Surface 13	Left	Edge: Surface 13, Left
207	15	2,895	0	5,565	Surface 14	Left	Edge: Surface 14, Left
208	15	2,895	-13	7,261	Surface 14	Right	Edge: Surface 14, Right
209	15	2,895	0	5,917	Surface 27	Bottom	Edge: Surface 27, Bottom
210	15	2,895	0,057	5,965	Surface 27	Left	Edge: Surface 27, Left
211	15	2,895	13	20	Surface 28	Top	Edge: Surface 28, Top
212	15	2,895	13	7,261	Surface 28	Bottom	Edge: Surface 28, Bottom
213	15	2,895	13	7,261	Surface 30	Top	Edge: Surface 30, Top
214	15	2,895	0	5,565	Surface 30	Bottom	Edge: Surface 30, Bottom
215	16	3,665	-12,594	6	Surface 10	Internal	DWL
216	16	3,665	12,594	6	Surface 24	Internal	DWL
217	16	3,665	-13	7,241	Surface 7	Left	Edge: Surface 7, Left
218	16	3,665	-13	20	Surface 7	Right	Edge: Surface 7, Right
219	16	3,665	0	5,506	Surface 10	Left	Edge: Surface 10, Left
220	16	3,665	-13	7,241	Surface 10	Right	Edge: Surface 10, Right
221	16	3,665	-0,327	5,959	Surface 13	Bottom	Edge: Surface 13, Bottom
222	16	3,665	0	4,927	Surface 13	Left	Edge: Surface 13, Left
223	16	3,665	13	20	Surface 21	Top	Edge: Surface 21, Top
224	16	3,665	13	7,241	Surface 21	Bottom	Edge: Surface 21, Bottom
225	16	3,665	13	7,241	Surface 24	Top	Edge: Surface 24, Top
226	16	3,665	0	5,506	Surface 24	Bottom	Edge: Surface 24, Bottom
227	16	3,665	0	4,927	Surface 27	Bottom	Edge: Surface 27, Bottom
228	16	3,665	0,327	5,959	Surface 27	Left	Edge: Surface 27, Left
229	17	4,435	-12,614	6	Surface 10	Internal	DWL
230	17	4,435	12,614	6	Surface 24	Internal	DWL
231	17	4,435	-13	7,221	Surface 7	Left	Edge: Surface 7, Left
232	17	4,435	-13	20	Surface 7	Right	Edge: Surface 7, Right
233	17	4,435	0	5,443	Surface 10	Left	Edge: Surface 10, Left
234	17	4,435	-13	7,221	Surface 10	Right	Edge: Surface 10, Right
235	17	4,435	-0,485	5,941	Surface 13	Bottom	Edge: Surface 13, Bottom
236	17	4,435	0	3,938	Surface 13	Left	Edge: Surface 13, Left
237	17	4,435	13	20	Surface 21	Top	Edge: Surface 21, Top
238	17	4,435	13	7,221	Surface 21	Bottom	Edge: Surface 21, Bottom
239	17	4,435	13	7,221	Surface 24	Top	Edge: Surface 24, Top
240	17	4,435	0	5,443	Surface 24	Bottom	Edge: Surface 24, Bottom
241	17	4,435	0	3,938	Surface 27	Bottom	Edge: Surface 27, Bottom
242	17	4,435	0,485	5,941	Surface 27	Left	Edge: Surface 27, Left
243	18	5,205	-12,632	6	Surface 10	Internal	DWL
244	18	5,205	12,632	6	Surface 24	Internal	DWL
245	18	5,205	-13	7,2	Surface 7	Left	Edge: Surface 7, Left

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
246	18	5,205	-13	20	Surface 7	Right	Edge: Surface 7, Right
247	18	5,205	0	5,376	Surface 10	Left	Edge: Surface 10, Left
248	18	5,205	-13	7,2	Surface 10	Right	Edge: Surface 10, Right
249	18	5,205	-0,603	5,91	Surface 13	Bottom	Edge: Surface 13, Bottom
250	18	5,205	0	2,948	Surface 13	Left	Edge: Surface 13, Left
251	18	5,205	13	20	Surface 21	Top	Edge: Surface 21, Top
252	18	5,205	13	7,2	Surface 21	Bottom	Edge: Surface 21, Bottom
253	18	5,205	13	7,2	Surface 24	Top	Edge: Surface 24, Top
254	18	5,205	0	5,376	Surface 24	Bottom	Edge: Surface 24, Bottom
255	18	5,205	0	2,948	Surface 27	Bottom	Edge: Surface 27, Bottom
256	18	5,205	0,603	5,91	Surface 27	Left	Edge: Surface 27, Left
257	19	5,975	-12,65	6	Surface 10	Internal	DWL
258	19	5,975	12,65	6	Surface 24	Internal	DWL
259	19	5,975	-13	7,179	Surface 7	Left	Edge: Surface 7, Left
260	19	5,975	-13	20	Surface 7	Right	Edge: Surface 7, Right
261	19	5,975	0	5,305	Surface 10	Left	Edge: Surface 10, Left
262	19	5,975	-13	7,179	Surface 10	Right	Edge: Surface 10, Right
263	19	5,975	-0,691	5,867	Surface 13	Bottom	Edge: Surface 13, Bottom
264	19	5,975	0	1,958	Surface 13	Left	Edge: Surface 13, Left
265	19	5,975	13	20	Surface 21	Top	Edge: Surface 21, Top
266	19	5,975	13	7,179	Surface 21	Bottom	Edge: Surface 21, Bottom
267	19	5,975	13	7,179	Surface 24	Top	Edge: Surface 24, Top
268	19	5,975	0	5,305	Surface 24	Bottom	Edge: Surface 24, Bottom
269	19	5,975	0	1,958	Surface 27	Bottom	Edge: Surface 27, Bottom
270	19	5,975	0,691	5,867	Surface 27	Left	Edge: Surface 27, Left
271	20	6,745	-12,668	6	Surface 10	Internal	DWL
272	20	6,745	12,668	6	Surface 24	Internal	DWL
273	20	6,745	-13	7,157	Surface 7	Left	Edge: Surface 7, Left
274	20	6,745	-13	20	Surface 7	Right	Edge: Surface 7, Right
275	20	6,745	0	5,231	Surface 10	Left	Edge: Surface 10, Left
276	20	6,745	-13	7,157	Surface 10	Right	Edge: Surface 10, Right
277	20	6,745	-0,757	5,814	Surface 13	Bottom	Edge: Surface 13, Bottom
278	20	6,745	0	0,969	Surface 13	Left	Edge: Surface 13, Left
279	20	6,745	13	20	Surface 21	Top	Edge: Surface 21, Top
280	20	6,745	13	7,157	Surface 21	Bottom	Edge: Surface 21, Bottom
281	20	6,745	13	7,157	Surface 24	Top	Edge: Surface 24, Top
282	20	6,745	0	5,231	Surface 24	Bottom	Edge: Surface 24, Bottom
283	20	6,745	0	0,969	Surface 27	Bottom	Edge: Surface 27, Bottom
284	20	6,745	0,757	5,814	Surface 27	Left	Edge: Surface 27, Left
285	21	7,515	-12,684	6	Surface 10	Internal	DWL
286	21	7,515	12,684	6	Surface 24	Internal	DWL
287	21	7,515	-13	7,135	Surface 7	Left	Edge: Surface 7, Left
288	21	7,515	-13	20	Surface 7	Right	Edge: Surface 7, Right
289	21	7,515	0	5,154	Surface 10	Left	Edge: Surface 10, Left
290	21	7,515	-13	7,135	Surface 10	Right	Edge: Surface 10, Right
291	21	7,515	-0,041	0	Surface 13	Top	Edge: Surface 13, Top
292	21	7,515	-0,806	5,752	Surface 13	Bottom	Edge: Surface 13, Bottom
293	21	7,515	0	0	Surface 15	Left	Edge: Surface 15, Left
294	21	7,515	-0,041	0	Surface 15	Right	Edge: Surface 15, Right

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
295	21	7,515	13	20	Surface 21	Top	Edge: Surface 21, Top
296	21	7,515	13	7,135	Surface 21	Bottom	Edge: Surface 21, Bottom
297	21	7,515	13	7,135	Surface 24	Top	Edge: Surface 24, Top
298	21	7,515	0	5,154	Surface 24	Bottom	Edge: Surface 24, Bottom
299	21	7,515	0,806	5,752	Surface 27	Left	Edge: Surface 27, Left
300	21	7,515	0,041	0	Surface 27	Right	Edge: Surface 27, Right
301	21	7,515	0,041	0	Surface 29	Top	Edge: Surface 29, Top
302	21	7,515	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
303	22	8,285	-12,7	6	Surface 10	Internal	DWL
304	22	8,285	12,7	6	Surface 24	Internal	DWL
305	22	8,285	-13	7,113	Surface 7	Left	Edge: Surface 7, Left
306	22	8,285	-13	20	Surface 7	Right	Edge: Surface 7, Right
307	22	8,285	0	5,073	Surface 10	Left	Edge: Surface 10, Left
308	22	8,285	-13	7,113	Surface 10	Right	Edge: Surface 10, Right
309	22	8,285	-0,36	0	Surface 13	Top	Edge: Surface 13, Top
310	22	8,285	-0,838	5,681	Surface 13	Bottom	Edge: Surface 13, Bottom
311	22	8,285	0	0	Surface 15	Left	Edge: Surface 15, Left
312	22	8,285	-0,36	0	Surface 15	Right	Edge: Surface 15, Right
313	22	8,285	13	20	Surface 21	Top	Edge: Surface 21, Top
314	22	8,285	13	7,113	Surface 21	Bottom	Edge: Surface 21, Bottom
315	22	8,285	13	7,113	Surface 24	Top	Edge: Surface 24, Top
316	22	8,285	0	5,073	Surface 24	Bottom	Edge: Surface 24, Bottom
317	22	8,285	0,838	5,681	Surface 27	Left	Edge: Surface 27, Left
318	22	8,285	0,36	0	Surface 27	Right	Edge: Surface 27, Right
319	22	8,285	0,36	0	Surface 29	Top	Edge: Surface 29, Top
320	22	8,285	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
321	23	9,055	-12,716	6	Surface 10	Internal	DWL
322	23	9,055	12,716	6	Surface 24	Internal	DWL
323	23	9,055	-13	7,089	Surface 7	Left	Edge: Surface 7, Left
324	23	9,055	-13	20	Surface 7	Right	Edge: Surface 7, Right
325	23	9,055	0	4,989	Surface 10	Left	Edge: Surface 10, Left
326	23	9,055	-13	7,089	Surface 10	Right	Edge: Surface 10, Right
327	23	9,055	-0,529	0	Surface 13	Top	Edge: Surface 13, Top
328	23	9,055	-0,856	5,602	Surface 13	Bottom	Edge: Surface 13, Bottom
329	23	9,055	0	0	Surface 15	Left	Edge: Surface 15, Left
330	23	9,055	-0,529	0	Surface 15	Right	Edge: Surface 15, Right
331	23	9,055	13	20	Surface 21	Top	Edge: Surface 21, Top
332	23	9,055	13	7,089	Surface 21	Bottom	Edge: Surface 21, Bottom
333	23	9,055	13	7,089	Surface 24	Top	Edge: Surface 24, Top
334	23	9,055	0	4,989	Surface 24	Bottom	Edge: Surface 24, Bottom
335	23	9,055	0,856	5,602	Surface 27	Left	Edge: Surface 27, Left
336	23	9,055	0,529	0	Surface 27	Right	Edge: Surface 27, Right
337	23	9,055	0,529	0	Surface 29	Top	Edge: Surface 29, Top
338	23	9,055	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
339	24	9,825	-12,731	6	Surface 10	Internal	DWL
340	24	9,825	12,731	6	Surface 24	Internal	DWL
341	24	9,825	-13	7,066	Surface 7	Left	Edge: Surface 7, Left
342	24	9,825	-13	20	Surface 7	Right	Edge: Surface 7, Right
343	24	9,825	0	4,903	Surface 10	Left	Edge: Surface 10, Left

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
344	24	9,825	-13	7,066	Surface 10	Right	Edge: Surface 10, Right
345	24	9,825	-0,645	0	Surface 13	Top	Edge: Surface 13, Top
346	24	9,825	-0,86	5,525	Surface 13	Bottom	Edge: Surface 13, Bottom
347	24	9,825	0	0	Surface 15	Left	Edge: Surface 15, Left
348	24	9,825	-0,645	0	Surface 15	Right	Edge: Surface 15, Right
349	24	9,825	13	20	Surface 21	Top	Edge: Surface 21, Top
350	24	9,825	13	7,066	Surface 21	Bottom	Edge: Surface 21, Bottom
351	24	9,825	13	7,066	Surface 24	Top	Edge: Surface 24, Top
352	24	9,825	0	4,903	Surface 24	Bottom	Edge: Surface 24, Bottom
353	24	9,825	0,86	5,525	Surface 27	Left	Edge: Surface 27, Left
354	24	9,825	0,645	0	Surface 27	Right	Edge: Surface 27, Right
355	24	9,825	0,645	0	Surface 29	Top	Edge: Surface 29, Top
356	24	9,825	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
357	25	10,595	-12,746	6	Surface 10	Internal	DWL
358	25	10,595	12,746	6	Surface 24	Internal	DWL
359	25	10,595	-13	7,041	Surface 7	Left	Edge: Surface 7, Left
360	25	10,595	-13	20	Surface 7	Right	Edge: Surface 7, Right
361	25	10,595	0	4,814	Surface 10	Left	Edge: Surface 10, Left
362	25	10,595	-13	7,041	Surface 10	Right	Edge: Surface 10, Right
363	25	10,595	-0,728	0	Surface 13	Top	Edge: Surface 13, Top
364	25	10,595	-0,86	5,476	Surface 13	Bottom	Edge: Surface 13, Bottom
365	25	10,595	0	0	Surface 15	Left	Edge: Surface 15, Left
366	25	10,595	-0,728	0	Surface 15	Right	Edge: Surface 15, Right
367	25	10,595	13	20	Surface 21	Top	Edge: Surface 21, Top
368	25	10,595	13	7,041	Surface 21	Bottom	Edge: Surface 21, Bottom
369	25	10,595	13	7,041	Surface 24	Top	Edge: Surface 24, Top
370	25	10,595	0	4,814	Surface 24	Bottom	Edge: Surface 24, Bottom
371	25	10,595	0,86	5,476	Surface 27	Left	Edge: Surface 27, Left
372	25	10,595	0,728	0	Surface 27	Right	Edge: Surface 27, Right
373	25	10,595	0,728	0	Surface 29	Top	Edge: Surface 29, Top
374	25	10,595	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
375	26	11,365	-12,76	6	Surface 10	Internal	DWL
376	26	11,365	12,76	6	Surface 24	Internal	DWL
377	26	11,365	-13	7,017	Surface 7	Left	Edge: Surface 7, Left
378	26	11,365	-13	20	Surface 7	Right	Edge: Surface 7, Right
379	26	11,365	0	4,722	Surface 10	Left	Edge: Surface 10, Left
380	26	11,365	-13	7,017	Surface 10	Right	Edge: Surface 10, Right
381	26	11,365	-0,786	0	Surface 13	Top	Edge: Surface 13, Top
382	26	11,365	-0,86	5,419	Surface 13	Bottom	Edge: Surface 13, Bottom
383	26	11,365	0	0	Surface 15	Left	Edge: Surface 15, Left
384	26	11,365	-0,786	0	Surface 15	Right	Edge: Surface 15, Right
385	26	11,365	13	20	Surface 21	Top	Edge: Surface 21, Top
386	26	11,365	13	7,017	Surface 21	Bottom	Edge: Surface 21, Bottom
387	26	11,365	13	7,017	Surface 24	Top	Edge: Surface 24, Top
388	26	11,365	0	4,722	Surface 24	Bottom	Edge: Surface 24, Bottom
389	26	11,365	0,86	5,419	Surface 27	Left	Edge: Surface 27, Left
390	26	11,365	0,786	0	Surface 27	Right	Edge: Surface 27, Right
391	26	11,365	0,786	0	Surface 29	Top	Edge: Surface 29, Top
392	26	11,365	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
393	27	12,135	-12,774	6	Surface 10	Internal	DWL
394	27	12,135	12,774	6	Surface 24	Internal	DWL
395	27	12,135	-13	6,991	Surface 7	Left	Edge: Surface 7, Left
396	27	12,135	-13	20	Surface 7	Right	Edge: Surface 7, Right
397	27	12,135	0	4,627	Surface 10	Left	Edge: Surface 10, Left
398	27	12,135	-13	6,991	Surface 10	Right	Edge: Surface 10, Right
399	27	12,135	-0,826	0	Surface 13	Top	Edge: Surface 13, Top
400	27	12,135	-0,86	5,353	Surface 13	Bottom	Edge: Surface 13, Bottom
401	27	12,135	0	0	Surface 15	Left	Edge: Surface 15, Left
402	27	12,135	-0,826	0	Surface 15	Right	Edge: Surface 15, Right
403	27	12,135	13	20	Surface 21	Top	Edge: Surface 21, Top
404	27	12,135	13	6,991	Surface 21	Bottom	Edge: Surface 21, Bottom
405	27	12,135	13	6,991	Surface 24	Top	Edge: Surface 24, Top
406	27	12,135	0	4,627	Surface 24	Bottom	Edge: Surface 24, Bottom
407	27	12,135	0,86	5,353	Surface 27	Left	Edge: Surface 27, Left
408	27	12,135	0,826	0	Surface 27	Right	Edge: Surface 27, Right
409	27	12,135	0,826	0	Surface 29	Top	Edge: Surface 29, Top
410	27	12,135	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
411	28	12,905	-12,787	6	Surface 10	Internal	DWL
412	28	12,905	12,787	6	Surface 24	Internal	DWL
413	28	12,905	-13	6,965	Surface 7	Left	Edge: Surface 7, Left
414	28	12,905	-13	20	Surface 7	Right	Edge: Surface 7, Right
415	28	12,905	0	4,53	Surface 10	Left	Edge: Surface 10, Left
416	28	12,905	-13	6,965	Surface 10	Right	Edge: Surface 10, Right
417	28	12,905	-0,849	0	Surface 13	Top	Edge: Surface 13, Top
418	28	12,905	-0,86	5,28	Surface 13	Bottom	Edge: Surface 13, Bottom
419	28	12,905	0	0	Surface 15	Left	Edge: Surface 15, Left
420	28	12,905	-0,849	0	Surface 15	Right	Edge: Surface 15, Right
421	28	12,905	13	20	Surface 21	Top	Edge: Surface 21, Top
422	28	12,905	13	6,965	Surface 21	Bottom	Edge: Surface 21, Bottom
423	28	12,905	13	6,965	Surface 24	Top	Edge: Surface 24, Top
424	28	12,905	0	4,53	Surface 24	Bottom	Edge: Surface 24, Bottom
425	28	12,905	0,86	5,28	Surface 27	Left	Edge: Surface 27, Left
426	28	12,905	0,849	0	Surface 27	Right	Edge: Surface 27, Right
427	28	12,905	0,849	0	Surface 29	Top	Edge: Surface 29, Top
428	28	12,905	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
429	29	13,675	-12,8	6	Surface 10	Internal	DWL
430	29	13,675	12,8	6	Surface 24	Internal	DWL
431	29	13,675	-13	6,939	Surface 7	Left	Edge: Surface 7, Left
432	29	13,675	-13	20	Surface 7	Right	Edge: Surface 7, Right
433	29	13,675	0	4,431	Surface 10	Left	Edge: Surface 10, Left
434	29	13,675	-13	6,939	Surface 10	Right	Edge: Surface 10, Right
435	29	13,675	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
436	29	13,675	-0,86	5,2	Surface 13	Bottom	Edge: Surface 13, Bottom
437	29	13,675	0	0	Surface 15	Left	Edge: Surface 15, Left
438	29	13,675	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
439	29	13,675	13	20	Surface 21	Top	Edge: Surface 21, Top
440	29	13,675	13	6,939	Surface 21	Bottom	Edge: Surface 21, Bottom
441	29	13,675	13	6,939	Surface 24	Top	Edge: Surface 24, Top

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
442	29	13,675	0	4,431	Surface 24	Bottom	Edge: Surface 24, Bottom
443	29	13,675	0,86	5,2	Surface 27	Left	Edge: Surface 27, Left
444	29	13,675	0,86	0	Surface 27	Right	Edge: Surface 27, Right
445	29	13,675	0,86	0	Surface 29	Top	Edge: Surface 29, Top
446	29	13,675	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
447	30	14,445	-12,813	6	Surface 10	Internal	DWL
448	30	14,445	12,813	6	Surface 24	Internal	DWL
449	30	14,445	-13	6,912	Surface 7	Left	Edge: Surface 7, Left
450	30	14,445	-13	20	Surface 7	Right	Edge: Surface 7, Right
451	30	14,445	0	4,33	Surface 10	Left	Edge: Surface 10, Left
452	30	14,445	-13	6,912	Surface 10	Right	Edge: Surface 10, Right
453	30	14,445	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
454	30	14,445	-0,86	5,113	Surface 13	Bottom	Edge: Surface 13, Bottom
455	30	14,445	0	0	Surface 15	Left	Edge: Surface 15, Left
456	30	14,445	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
457	30	14,445	13	20	Surface 21	Top	Edge: Surface 21, Top
458	30	14,445	13	6,912	Surface 21	Bottom	Edge: Surface 21, Bottom
459	30	14,445	13	6,912	Surface 24	Top	Edge: Surface 24, Top
460	30	14,445	0	4,33	Surface 24	Bottom	Edge: Surface 24, Bottom
461	30	14,445	0,86	5,113	Surface 27	Left	Edge: Surface 27, Left
462	30	14,445	0,86	0	Surface 27	Right	Edge: Surface 27, Right
463	30	14,445	0,86	0	Surface 29	Top	Edge: Surface 29, Top
464	30	14,445	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
465	31	15,215	-12,825	6	Surface 10	Internal	DWL
466	31	15,215	12,825	6	Surface 24	Internal	DWL
467	31	15,215	-13	6,884	Surface 7	Left	Edge: Surface 7, Left
468	31	15,215	-13	20	Surface 7	Right	Edge: Surface 7, Right
469	31	15,215	0	4,227	Surface 10	Left	Edge: Surface 10, Left
470	31	15,215	-13	6,884	Surface 10	Right	Edge: Surface 10, Right
471	31	15,215	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
472	31	15,215	-0,86	5,021	Surface 13	Bottom	Edge: Surface 13, Bottom
473	31	15,215	0	0	Surface 15	Left	Edge: Surface 15, Left
474	31	15,215	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
475	31	15,215	13	20	Surface 21	Top	Edge: Surface 21, Top
476	31	15,215	13	6,884	Surface 21	Bottom	Edge: Surface 21, Bottom
477	31	15,215	13	6,884	Surface 24	Top	Edge: Surface 24, Top
478	31	15,215	0	4,227	Surface 24	Bottom	Edge: Surface 24, Bottom
479	31	15,215	0,86	5,021	Surface 27	Left	Edge: Surface 27, Left
480	31	15,215	0,86	0	Surface 27	Right	Edge: Surface 27, Right
481	31	15,215	0,86	0	Surface 29	Top	Edge: Surface 29, Top
482	31	15,215	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
483	32	15,985	-12,837	6	Surface 10	Internal	DWL
484	32	15,985	12,837	6	Surface 24	Internal	DWL
485	32	15,985	-13	6,855	Surface 7	Left	Edge: Surface 7, Left
486	32	15,985	-13	20	Surface 7	Right	Edge: Surface 7, Right
487	32	15,985	0	4,122	Surface 10	Left	Edge: Surface 10, Left
488	32	15,985	-13	6,855	Surface 10	Right	Edge: Surface 10, Right
489	32	15,985	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
490	32	15,985	-0,86	4,925	Surface 13	Bottom	Edge: Surface 13, Bottom

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
491	32	15,985	0	0	Surface 15	Left	Edge: Surface 15, Left
492	32	15,985	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
493	32	15,985	13	20	Surface 21	Top	Edge: Surface 21, Top
494	32	15,985	13	6,855	Surface 21	Bottom	Edge: Surface 21, Bottom
495	32	15,985	13	6,855	Surface 24	Top	Edge: Surface 24, Top
496	32	15,985	0	4,122	Surface 24	Bottom	Edge: Surface 24, Bottom
497	32	15,985	0,86	4,925	Surface 27	Left	Edge: Surface 27, Left
498	32	15,985	0,86	0	Surface 27	Right	Edge: Surface 27, Right
499	32	15,985	0,86	0	Surface 29	Top	Edge: Surface 29, Top
500	32	15,985	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
501	33	16,755	-12,849	6	Surface 10	Internal	DWL
502	33	16,755	12,849	6	Surface 24	Internal	DWL
503	33	16,755	-13	6,826	Surface 7	Left	Edge: Surface 7, Left
504	33	16,755	-13	20	Surface 7	Right	Edge: Surface 7, Right
505	33	16,755	0	4,015	Surface 10	Left	Edge: Surface 10, Left
506	33	16,755	-13	6,826	Surface 10	Right	Edge: Surface 10, Right
507	33	16,755	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
508	33	16,755	-0,86	4,824	Surface 13	Bottom	Edge: Surface 13, Bottom
509	33	16,755	0	0	Surface 15	Left	Edge: Surface 15, Left
510	33	16,755	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
511	33	16,755	13	20	Surface 21	Top	Edge: Surface 21, Top
512	33	16,755	13	6,826	Surface 21	Bottom	Edge: Surface 21, Bottom
513	33	16,755	13	6,826	Surface 24	Top	Edge: Surface 24, Top
514	33	16,755	0	4,015	Surface 24	Bottom	Edge: Surface 24, Bottom
515	33	16,755	0,86	4,824	Surface 27	Left	Edge: Surface 27, Left
516	33	16,755	0,86	0	Surface 27	Right	Edge: Surface 27, Right
517	33	16,755	0,86	0	Surface 29	Top	Edge: Surface 29, Top
518	33	16,755	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
519	34	17,525	-12,861	6	Surface 10	Internal	DWL
520	34	17,525	12,861	6	Surface 24	Internal	DWL
521	34	17,525	-13	6,797	Surface 7	Left	Edge: Surface 7, Left
522	34	17,525	-13	20	Surface 7	Right	Edge: Surface 7, Right
523	34	17,525	0	3,906	Surface 10	Left	Edge: Surface 10, Left
524	34	17,525	-13	6,797	Surface 10	Right	Edge: Surface 10, Right
525	34	17,525	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
526	34	17,525	-0,86	4,719	Surface 13	Bottom	Edge: Surface 13, Bottom
527	34	17,525	0	0	Surface 15	Left	Edge: Surface 15, Left
528	34	17,525	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
529	34	17,525	13	20	Surface 21	Top	Edge: Surface 21, Top
530	34	17,525	13	6,797	Surface 21	Bottom	Edge: Surface 21, Bottom
531	34	17,525	13	6,797	Surface 24	Top	Edge: Surface 24, Top
532	34	17,525	0	3,906	Surface 24	Bottom	Edge: Surface 24, Bottom
533	34	17,525	0,86	4,719	Surface 27	Left	Edge: Surface 27, Left
534	34	17,525	0,86	0	Surface 27	Right	Edge: Surface 27, Right
535	34	17,525	0,86	0	Surface 29	Top	Edge: Surface 29, Top
536	34	17,525	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
537	35	18,295	-12,872	6	Surface 10	Internal	DWL
538	35	18,295	12,872	6	Surface 24	Internal	DWL
539	35	18,295	-13	6,766	Surface 7	Left	Edge: Surface 7, Left

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
540	35	18,295	-13	20	Surface 7	Right	Edge: Surface 7, Right
541	35	18,295	0	3,796	Surface 10	Left	Edge: Surface 10, Left
542	35	18,295	-13	6,766	Surface 10	Right	Edge: Surface 10, Right
543	35	18,295	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
544	35	18,295	-0,86	4,612	Surface 13	Bottom	Edge: Surface 13, Bottom
545	35	18,295	0	0	Surface 15	Left	Edge: Surface 15, Left
546	35	18,295	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
547	35	18,295	13	20	Surface 21	Top	Edge: Surface 21, Top
548	35	18,295	13	6,766	Surface 21	Bottom	Edge: Surface 21, Bottom
549	35	18,295	13	6,766	Surface 24	Top	Edge: Surface 24, Top
550	35	18,295	0	3,796	Surface 24	Bottom	Edge: Surface 24, Bottom
551	35	18,295	0,86	4,612	Surface 27	Left	Edge: Surface 27, Left
552	35	18,295	0,86	0	Surface 27	Right	Edge: Surface 27, Right
553	35	18,295	0,86	0	Surface 29	Top	Edge: Surface 29, Top
554	35	18,295	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
555	36	19,065	-12,883	6	Surface 10	Internal	DWL
556	36	19,065	12,883	6	Surface 24	Internal	DWL
557	36	19,065	-13	6,736	Surface 7	Left	Edge: Surface 7, Left
558	36	19,065	-13	20	Surface 7	Right	Edge: Surface 7, Right
559	36	19,065	0	3,685	Surface 10	Left	Edge: Surface 10, Left
560	36	19,065	-13	6,736	Surface 10	Right	Edge: Surface 10, Right
561	36	19,065	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
562	36	19,065	-0,86	4,502	Surface 13	Bottom	Edge: Surface 13, Bottom
563	36	19,065	0	0	Surface 15	Left	Edge: Surface 15, Left
564	36	19,065	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
565	36	19,065	13	20	Surface 21	Top	Edge: Surface 21, Top
566	36	19,065	13	6,736	Surface 21	Bottom	Edge: Surface 21, Bottom
567	36	19,065	13	6,736	Surface 24	Top	Edge: Surface 24, Top
568	36	19,065	0	3,685	Surface 24	Bottom	Edge: Surface 24, Bottom
569	36	19,065	0,86	4,502	Surface 27	Left	Edge: Surface 27, Left
570	36	19,065	0,86	0	Surface 27	Right	Edge: Surface 27, Right
571	36	19,065	0,86	0	Surface 29	Top	Edge: Surface 29, Top
572	36	19,065	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
573	37	19,835	-12,893	6	Surface 10	Internal	DWL
574	37	19,835	12,893	6	Surface 24	Internal	DWL
575	37	19,835	-13	6,704	Surface 7	Left	Edge: Surface 7, Left
576	37	19,835	-13	20	Surface 7	Right	Edge: Surface 7, Right
577	37	19,835	0	3,572	Surface 10	Left	Edge: Surface 10, Left
578	37	19,835	-13	6,704	Surface 10	Right	Edge: Surface 10, Right
579	37	19,835	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
580	37	19,835	-0,86	4,39	Surface 13	Bottom	Edge: Surface 13, Bottom
581	37	19,835	0	0	Surface 15	Left	Edge: Surface 15, Left
582	37	19,835	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
583	37	19,835	13	20	Surface 21	Top	Edge: Surface 21, Top
584	37	19,835	13	6,704	Surface 21	Bottom	Edge: Surface 21, Bottom
585	37	19,835	13	6,704	Surface 24	Top	Edge: Surface 24, Top
586	37	19,835	0	3,572	Surface 24	Bottom	Edge: Surface 24, Bottom
587	37	19,835	0,86	4,39	Surface 27	Left	Edge: Surface 27, Left
588	37	19,835	0,86	0	Surface 27	Right	Edge: Surface 27, Right

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
589	37	19,835	0,86	0	Surface 29	Top	Edge: Surface 29, Top
590	37	19,835	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
591	38	20,605	-12,903	6	Surface 10	Internal	DWL
592	38	20,605	12,903	6	Surface 24	Internal	DWL
593	38	20,605	-13	6,672	Surface 7	Left	Edge: Surface 7, Left
594	38	20,605	-13	20	Surface 7	Right	Edge: Surface 7, Right
595	38	20,605	0	3,459	Surface 10	Left	Edge: Surface 10, Left
596	38	20,605	-13	6,672	Surface 10	Right	Edge: Surface 10, Right
597	38	20,605	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
598	38	20,605	-0,86	4,277	Surface 13	Bottom	Edge: Surface 13, Bottom
599	38	20,605	0	0	Surface 15	Left	Edge: Surface 15, Left
600	38	20,605	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
601	38	20,605	13	20	Surface 21	Top	Edge: Surface 21, Top
602	38	20,605	13	6,672	Surface 21	Bottom	Edge: Surface 21, Bottom
603	38	20,605	13	6,672	Surface 24	Top	Edge: Surface 24, Top
604	38	20,605	0	3,459	Surface 24	Bottom	Edge: Surface 24, Bottom
605	38	20,605	0,86	4,277	Surface 27	Left	Edge: Surface 27, Left
606	38	20,605	0,86	0	Surface 27	Right	Edge: Surface 27, Right
607	38	20,605	0,86	0	Surface 29	Top	Edge: Surface 29, Top
608	38	20,605	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
609	39	21,375	-12,913	6	Surface 10	Internal	DWL
610	39	21,375	12,913	6	Surface 24	Internal	DWL
611	39	21,375	-13	6,639	Surface 7	Left	Edge: Surface 7, Left
612	39	21,375	-13	20	Surface 7	Right	Edge: Surface 7, Right
613	39	21,375	0	3,345	Surface 10	Left	Edge: Surface 10, Left
614	39	21,375	-13	6,639	Surface 10	Right	Edge: Surface 10, Right
615	39	21,375	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
616	39	21,375	-0,86	4,162	Surface 13	Bottom	Edge: Surface 13, Bottom
617	39	21,375	0	0	Surface 15	Left	Edge: Surface 15, Left
618	39	21,375	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
619	39	21,375	13	20	Surface 21	Top	Edge: Surface 21, Top
620	39	21,375	13	6,639	Surface 21	Bottom	Edge: Surface 21, Bottom
621	39	21,375	13	6,639	Surface 24	Top	Edge: Surface 24, Top
622	39	21,375	0	3,345	Surface 24	Bottom	Edge: Surface 24, Bottom
623	39	21,375	0,86	4,162	Surface 27	Left	Edge: Surface 27, Left
624	39	21,375	0,86	0	Surface 27	Right	Edge: Surface 27, Right
625	39	21,375	0,86	0	Surface 29	Top	Edge: Surface 29, Top
626	39	21,375	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
627	40	22,145	-12,923	6	Surface 10	Internal	DWL
628	40	22,145	12,923	6	Surface 24	Internal	DWL
629	40	22,145	-13	6,605	Surface 7	Left	Edge: Surface 7, Left
630	40	22,145	-13	20	Surface 7	Right	Edge: Surface 7, Right
631	40	22,145	0	3,23	Surface 10	Left	Edge: Surface 10, Left
632	40	22,145	-13	6,605	Surface 10	Right	Edge: Surface 10, Right
633	40	22,145	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
634	40	22,145	-0,86	4,046	Surface 13	Bottom	Edge: Surface 13, Bottom
635	40	22,145	0	0	Surface 15	Left	Edge: Surface 15, Left
636	40	22,145	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
637	40	22,145	13	20	Surface 21	Top	Edge: Surface 21, Top

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
638	40	22,145	13	6,605	Surface 21	Bottom	Edge: Surface 21, Bottom
639	40	22,145	13	6,605	Surface 24	Top	Edge: Surface 24, Top
640	40	22,145	0	3,23	Surface 24	Bottom	Edge: Surface 24, Bottom
641	40	22,145	0,86	4,046	Surface 27	Left	Edge: Surface 27, Left
642	40	22,145	0,86	0	Surface 27	Right	Edge: Surface 27, Right
643	40	22,145	0,86	0	Surface 29	Top	Edge: Surface 29, Top
644	40	22,145	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
645	41	22,915	-12,932	6	Surface 10	Internal	DWL
646	41	22,915	12,932	6	Surface 24	Internal	DWL
647	41	22,915	-13	6,57	Surface 7	Left	Edge: Surface 7, Left
648	41	22,915	-13	20	Surface 7	Right	Edge: Surface 7, Right
649	41	22,915	0	3,115	Surface 10	Left	Edge: Surface 10, Left
650	41	22,915	-13	6,57	Surface 10	Right	Edge: Surface 10, Right
651	41	22,915	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
652	41	22,915	-0,86	3,929	Surface 13	Bottom	Edge: Surface 13, Bottom
653	41	22,915	0	0	Surface 15	Left	Edge: Surface 15, Left
654	41	22,915	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
655	41	22,915	13	20	Surface 21	Top	Edge: Surface 21, Top
656	41	22,915	13	6,57	Surface 21	Bottom	Edge: Surface 21, Bottom
657	41	22,915	13	6,57	Surface 24	Top	Edge: Surface 24, Top
658	41	22,915	0	3,115	Surface 24	Bottom	Edge: Surface 24, Bottom
659	41	22,915	0,86	3,929	Surface 27	Left	Edge: Surface 27, Left
660	41	22,915	0,86	0	Surface 27	Right	Edge: Surface 27, Right
661	41	22,915	0,86	0	Surface 29	Top	Edge: Surface 29, Top
662	41	22,915	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
663	42	23,685	-12,941	6	Surface 10	Internal	DWL
664	42	23,685	12,941	6	Surface 24	Internal	DWL
665	42	23,685	-13	6,535	Surface 7	Left	Edge: Surface 7, Left
666	42	23,685	-13	20	Surface 7	Right	Edge: Surface 7, Right
667	42	23,685	0	3	Surface 10	Left	Edge: Surface 10, Left
668	42	23,685	-13	6,535	Surface 10	Right	Edge: Surface 10, Right
669	42	23,685	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
670	42	23,685	-0,86	3,811	Surface 13	Bottom	Edge: Surface 13, Bottom
671	42	23,685	0	0	Surface 15	Left	Edge: Surface 15, Left
672	42	23,685	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
673	42	23,685	13	20	Surface 21	Top	Edge: Surface 21, Top
674	42	23,685	13	6,535	Surface 21	Bottom	Edge: Surface 21, Bottom
675	42	23,685	13	6,535	Surface 24	Top	Edge: Surface 24, Top
676	42	23,685	0	3	Surface 24	Bottom	Edge: Surface 24, Bottom
677	42	23,685	0,86	3,811	Surface 27	Left	Edge: Surface 27, Left
678	42	23,685	0,86	0	Surface 27	Right	Edge: Surface 27, Right
679	42	23,685	0,86	0	Surface 29	Top	Edge: Surface 29, Top
680	42	23,685	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
681	43	24,455	-12,949	6	Surface 10	Internal	DWL
682	43	24,455	12,949	6	Surface 24	Internal	DWL
683	43	24,455	-13	6,5	Surface 7	Left	Edge: Surface 7, Left
684	43	24,455	-13	20	Surface 7	Right	Edge: Surface 7, Right
685	43	24,455	0	2,884	Surface 10	Left	Edge: Surface 10, Left
686	43	24,455	-13	6,5	Surface 10	Right	Edge: Surface 10, Right

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
687	43	24,455	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
688	43	24,455	-0,86	3,693	Surface 13	Bottom	Edge: Surface 13, Bottom
689	43	24,455	0	0	Surface 15	Left	Edge: Surface 15, Left
690	43	24,455	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
691	43	24,455	13	20	Surface 21	Top	Edge: Surface 21, Top
692	43	24,455	13	6,5	Surface 21	Bottom	Edge: Surface 21, Bottom
693	43	24,455	13	6,5	Surface 24	Top	Edge: Surface 24, Top
694	43	24,455	0	2,884	Surface 24	Bottom	Edge: Surface 24, Bottom
695	43	24,455	0,86	3,693	Surface 27	Left	Edge: Surface 27, Left
696	43	24,455	0,86	0	Surface 27	Right	Edge: Surface 27, Right
697	43	24,455	0,86	0	Surface 29	Top	Edge: Surface 29, Top
698	43	24,455	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
699	44	25,225	-12,957	6	Surface 10	Internal	DWL
700	44	25,225	12,957	6	Surface 24	Internal	DWL
701	44	25,225	-13	6,463	Surface 7	Left	Edge: Surface 7, Left
702	44	25,225	-13	20	Surface 7	Right	Edge: Surface 7, Right
703	44	25,225	0	2,768	Surface 10	Left	Edge: Surface 10, Left
704	44	25,225	-13	6,463	Surface 10	Right	Edge: Surface 10, Right
705	44	25,225	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
706	44	25,225	-0,86	3,574	Surface 13	Bottom	Edge: Surface 13, Bottom
707	44	25,225	0	0	Surface 15	Left	Edge: Surface 15, Left
708	44	25,225	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
709	44	25,225	13	20	Surface 21	Top	Edge: Surface 21, Top
710	44	25,225	13	6,463	Surface 21	Bottom	Edge: Surface 21, Bottom
711	44	25,225	13	6,463	Surface 24	Top	Edge: Surface 24, Top
712	44	25,225	0	2,768	Surface 24	Bottom	Edge: Surface 24, Bottom
713	44	25,225	0,86	3,574	Surface 27	Left	Edge: Surface 27, Left
714	44	25,225	0,86	0	Surface 27	Right	Edge: Surface 27, Right
715	44	25,225	0,86	0	Surface 29	Top	Edge: Surface 29, Top
716	44	25,225	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
717	45	25,995	-12,964	6	Surface 10	Internal	DWL
718	45	25,995	12,964	6	Surface 24	Internal	DWL
719	45	25,995	-13	6,426	Surface 7	Left	Edge: Surface 7, Left
720	45	25,995	-13	20	Surface 7	Right	Edge: Surface 7, Right
721	45	25,995	0	2,653	Surface 10	Left	Edge: Surface 10, Left
722	45	25,995	-13	6,426	Surface 10	Right	Edge: Surface 10, Right
723	45	25,995	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
724	45	25,995	-0,86	3,456	Surface 13	Bottom	Edge: Surface 13, Bottom
725	45	25,995	0	0	Surface 15	Left	Edge: Surface 15, Left
726	45	25,995	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
727	45	25,995	13	20	Surface 21	Top	Edge: Surface 21, Top
728	45	25,995	13	6,426	Surface 21	Bottom	Edge: Surface 21, Bottom
729	45	25,995	13	6,426	Surface 24	Top	Edge: Surface 24, Top
730	45	25,995	0	2,653	Surface 24	Bottom	Edge: Surface 24, Bottom
731	45	25,995	0,86	3,456	Surface 27	Left	Edge: Surface 27, Left
732	45	25,995	0,86	0	Surface 27	Right	Edge: Surface 27, Right
733	45	25,995	0,86	0	Surface 29	Top	Edge: Surface 29, Top
734	45	25,995	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
735	46	26,765	-12,971	6	Surface 10	Internal	DWL

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
736	46	26,765	12,971	6	Surface 24	Internal	DWL
737	46	26,765	-13	6,388	Surface 7	Left	Edge: Surface 7, Left
738	46	26,765	-13	20	Surface 7	Right	Edge: Surface 7, Right
739	46	26,765	0	2,537	Surface 10	Left	Edge: Surface 10, Left
740	46	26,765	-13	6,388	Surface 10	Right	Edge: Surface 10, Right
741	46	26,765	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
742	46	26,765	-0,86	3,337	Surface 13	Bottom	Edge: Surface 13, Bottom
743	46	26,765	0	0	Surface 15	Left	Edge: Surface 15, Left
744	46	26,765	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
745	46	26,765	13	20	Surface 21	Top	Edge: Surface 21, Top
746	46	26,765	13	6,388	Surface 21	Bottom	Edge: Surface 21, Bottom
747	46	26,765	13	6,388	Surface 24	Top	Edge: Surface 24, Top
748	46	26,765	0	2,537	Surface 24	Bottom	Edge: Surface 24, Bottom
749	46	26,765	0,86	3,337	Surface 27	Left	Edge: Surface 27, Left
750	46	26,765	0,86	0	Surface 27	Right	Edge: Surface 27, Right
751	46	26,765	0,86	0	Surface 29	Top	Edge: Surface 29, Top
752	46	26,765	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
753	47	27,535	-12,977	6	Surface 10	Internal	DWL
754	47	27,535	12,977	6	Surface 24	Internal	DWL
755	47	27,535	-13	6,349	Surface 7	Left	Edge: Surface 7, Left
756	47	27,535	-13	20	Surface 7	Right	Edge: Surface 7, Right
757	47	27,535	0	2,421	Surface 10	Left	Edge: Surface 10, Left
758	47	27,535	-13	6,349	Surface 10	Right	Edge: Surface 10, Right
759	47	27,535	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
760	47	27,535	-0,86	3,219	Surface 13	Bottom	Edge: Surface 13, Bottom
761	47	27,535	0	0	Surface 15	Left	Edge: Surface 15, Left
762	47	27,535	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
763	47	27,535	13	20	Surface 21	Top	Edge: Surface 21, Top
764	47	27,535	13	6,349	Surface 21	Bottom	Edge: Surface 21, Bottom
765	47	27,535	13	6,349	Surface 24	Top	Edge: Surface 24, Top
766	47	27,535	0	2,421	Surface 24	Bottom	Edge: Surface 24, Bottom
767	47	27,535	0,86	3,219	Surface 27	Left	Edge: Surface 27, Left
768	47	27,535	0,86	0	Surface 27	Right	Edge: Surface 27, Right
769	47	27,535	0,86	0	Surface 29	Top	Edge: Surface 29, Top
770	47	27,535	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
771	48	28,305	-12,982	6	Surface 10	Internal	DWL
772	48	28,305	12,982	6	Surface 24	Internal	DWL
773	48	28,305	-13	6,309	Surface 7	Left	Edge: Surface 7, Left
774	48	28,305	-13	20	Surface 7	Right	Edge: Surface 7, Right
775	48	28,305	0	2,306	Surface 10	Left	Edge: Surface 10, Left
776	48	28,305	-13	6,309	Surface 10	Right	Edge: Surface 10, Right
777	48	28,305	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
778	48	28,305	-0,86	3,102	Surface 13	Bottom	Edge: Surface 13, Bottom
779	48	28,305	0	0	Surface 15	Left	Edge: Surface 15, Left
780	48	28,305	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
781	48	28,305	13	20	Surface 21	Top	Edge: Surface 21, Top
782	48	28,305	13	6,309	Surface 21	Bottom	Edge: Surface 21, Bottom
783	48	28,305	13	6,309	Surface 24	Top	Edge: Surface 24, Top
784	48	28,305	0	2,306	Surface 24	Bottom	Edge: Surface 24, Bottom

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
785	48	28,305	0,86	3,102	Surface 27	Left	Edge: Surface 27, Left
786	48	28,305	0,86	0	Surface 27	Right	Edge: Surface 27, Right
787	48	28,305	0,86	0	Surface 29	Top	Edge: Surface 29, Top
788	48	28,305	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
789	49	29,075	-12,987	6	Surface 10	Internal	DWL
790	49	29,075	12,987	6	Surface 24	Internal	DWL
791	49	29,075	-13	6,269	Surface 7	Left	Edge: Surface 7, Left
792	49	29,075	-13	20	Surface 7	Right	Edge: Surface 7, Right
793	49	29,075	0	2,191	Surface 10	Left	Edge: Surface 10, Left
794	49	29,075	-13	6,269	Surface 10	Right	Edge: Surface 10, Right
795	49	29,075	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
796	49	29,075	-0,86	2,986	Surface 13	Bottom	Edge: Surface 13, Bottom
797	49	29,075	0	0	Surface 15	Left	Edge: Surface 15, Left
798	49	29,075	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
799	49	29,075	13	20	Surface 21	Top	Edge: Surface 21, Top
800	49	29,075	13	6,269	Surface 21	Bottom	Edge: Surface 21, Bottom
801	49	29,075	13	6,269	Surface 24	Top	Edge: Surface 24, Top
802	49	29,075	0	2,191	Surface 24	Bottom	Edge: Surface 24, Bottom
803	49	29,075	0,86	2,986	Surface 27	Left	Edge: Surface 27, Left
804	49	29,075	0,86	0	Surface 27	Right	Edge: Surface 27, Right
805	49	29,075	0,86	0	Surface 29	Top	Edge: Surface 29, Top
806	49	29,075	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
807	50	29,845	-12,991	6	Surface 10	Internal	DWL
808	50	29,845	12,991	6	Surface 24	Internal	DWL
809	50	29,845	-13	6,227	Surface 7	Left	Edge: Surface 7, Left
810	50	29,845	-13	20	Surface 7	Right	Edge: Surface 7, Right
811	50	29,845	0	2,077	Surface 10	Left	Edge: Surface 10, Left
812	50	29,845	-13	6,227	Surface 10	Right	Edge: Surface 10, Right
813	50	29,845	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
814	50	29,845	-0,86	2,871	Surface 13	Bottom	Edge: Surface 13, Bottom
815	50	29,845	0	0	Surface 15	Left	Edge: Surface 15, Left
816	50	29,845	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
817	50	29,845	13	20	Surface 21	Top	Edge: Surface 21, Top
818	50	29,845	13	6,227	Surface 21	Bottom	Edge: Surface 21, Bottom
819	50	29,845	13	6,227	Surface 24	Top	Edge: Surface 24, Top
820	50	29,845	0	2,077	Surface 24	Bottom	Edge: Surface 24, Bottom
821	50	29,845	0,86	2,871	Surface 27	Left	Edge: Surface 27, Left
822	50	29,845	0,86	0	Surface 27	Right	Edge: Surface 27, Right
823	50	29,845	0,86	0	Surface 29	Top	Edge: Surface 29, Top
824	50	29,845	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
825	51	30,615	-12,994	6	Surface 10	Internal	DWL
826	51	30,615	12,994	6	Surface 24	Internal	DWL
827	51	30,615	-13	6,185	Surface 7	Left	Edge: Surface 7, Left
828	51	30,615	-13	20	Surface 7	Right	Edge: Surface 7, Right
829	51	30,615	0	1,964	Surface 10	Left	Edge: Surface 10, Left
830	51	30,615	-13	6,185	Surface 10	Right	Edge: Surface 10, Right
831	51	30,615	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
832	51	30,615	-0,86	2,758	Surface 13	Bottom	Edge: Surface 13, Bottom
833	51	30,615	0	0	Surface 15	Left	Edge: Surface 15, Left

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
834	51	30,615	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
835	51	30,615	13	20	Surface 21	Top	Edge: Surface 21, Top
836	51	30,615	13	6,185	Surface 21	Bottom	Edge: Surface 21, Bottom
837	51	30,615	13	6,185	Surface 24	Top	Edge: Surface 24, Top
838	51	30,615	0	1,964	Surface 24	Bottom	Edge: Surface 24, Bottom
839	51	30,615	0,86	2,758	Surface 27	Left	Edge: Surface 27, Left
840	51	30,615	0,86	0	Surface 27	Right	Edge: Surface 27, Right
841	51	30,615	0,86	0	Surface 29	Top	Edge: Surface 29, Top
842	51	30,615	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
843	52	31,385	-12,997	6	Surface 10	Internal	DWL
844	52	31,385	12,997	6	Surface 24	Internal	DWL
845	52	31,385	-13	6,142	Surface 7	Left	Edge: Surface 7, Left
846	52	31,385	-13	20	Surface 7	Right	Edge: Surface 7, Right
847	52	31,385	0	1,852	Surface 10	Left	Edge: Surface 10, Left
848	52	31,385	-13	6,142	Surface 10	Right	Edge: Surface 10, Right
849	52	31,385	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
850	52	31,385	-0,86	2,646	Surface 13	Bottom	Edge: Surface 13, Bottom
851	52	31,385	0	0	Surface 15	Left	Edge: Surface 15, Left
852	52	31,385	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
853	52	31,385	13	20	Surface 21	Top	Edge: Surface 21, Top
854	52	31,385	13	6,142	Surface 21	Bottom	Edge: Surface 21, Bottom
855	52	31,385	13	6,142	Surface 24	Top	Edge: Surface 24, Top
856	52	31,385	0	1,852	Surface 24	Bottom	Edge: Surface 24, Bottom
857	52	31,385	0,86	2,646	Surface 27	Left	Edge: Surface 27, Left
858	52	31,385	0,86	0	Surface 27	Right	Edge: Surface 27, Right
859	52	31,385	0,86	0	Surface 29	Top	Edge: Surface 29, Top
860	52	31,385	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
861	53	32,155	-12,998	6	Surface 10	Internal	DWL
862	53	32,155	12,998	6	Surface 24	Internal	DWL
863	53	32,155	-13	6,097	Surface 7	Left	Edge: Surface 7, Left
864	53	32,155	-13	20	Surface 7	Right	Edge: Surface 7, Right
865	53	32,155	0	1,741	Surface 10	Left	Edge: Surface 10, Left
866	53	32,155	-13	6,097	Surface 10	Right	Edge: Surface 10, Right
867	53	32,155	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
868	53	32,155	-0,86	2,537	Surface 13	Bottom	Edge: Surface 13, Bottom
869	53	32,155	0	0	Surface 15	Left	Edge: Surface 15, Left
870	53	32,155	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
871	53	32,155	13	20	Surface 21	Top	Edge: Surface 21, Top
872	53	32,155	13	6,097	Surface 21	Bottom	Edge: Surface 21, Bottom
873	53	32,155	13	6,097	Surface 24	Top	Edge: Surface 24, Top
874	53	32,155	0	1,741	Surface 24	Bottom	Edge: Surface 24, Bottom
875	53	32,155	0,86	2,537	Surface 27	Left	Edge: Surface 27, Left
876	53	32,155	0,86	0	Surface 27	Right	Edge: Surface 27, Right
877	53	32,155	0,86	0	Surface 29	Top	Edge: Surface 29, Top
878	53	32,155	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
879	54	32,925	-13	6	Surface 10	Internal	DWL
880	54	32,925	13	6	Surface 24	Internal	DWL
881	54	32,925	-13	6,052	Surface 7	Left	Edge: Surface 7, Left
882	54	32,925	-13	20	Surface 7	Right	Edge: Surface 7, Right

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
883	54	32,925	0	1,632	Surface 10	Left	Edge: Surface 10, Left
884	54	32,925	-13	6,052	Surface 10	Right	Edge: Surface 10, Right
885	54	32,925	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
886	54	32,925	-0,86	2,429	Surface 13	Bottom	Edge: Surface 13, Bottom
887	54	32,925	0	0	Surface 15	Left	Edge: Surface 15, Left
888	54	32,925	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
889	54	32,925	13	20	Surface 21	Top	Edge: Surface 21, Top
890	54	32,925	13	6,052	Surface 21	Bottom	Edge: Surface 21, Bottom
891	54	32,925	13	6,052	Surface 24	Top	Edge: Surface 24, Top
892	54	32,925	0	1,632	Surface 24	Bottom	Edge: Surface 24, Bottom
893	54	32,925	0,86	2,429	Surface 27	Left	Edge: Surface 27, Left
894	54	32,925	0,86	0	Surface 27	Right	Edge: Surface 27, Right
895	54	32,925	0,86	0	Surface 29	Top	Edge: Surface 29, Top
896	54	32,925	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
897	55	33,695	-13	6	Surface 10	Internal	DWL
898	55	33,695	13	6	Surface 24	Internal	DWL
899	55	33,695	-13	6,006	Surface 7	Left	Edge: Surface 7, Left
900	55	33,695	-13	20	Surface 7	Right	Edge: Surface 7, Right
901	55	33,695	0	1,526	Surface 10	Left	Edge: Surface 10, Left
902	55	33,695	-13	6,006	Surface 10	Right	Edge: Surface 10, Right
903	55	33,695	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
904	55	33,695	-0,86	2,324	Surface 13	Bottom	Edge: Surface 13, Bottom
905	55	33,695	0	0	Surface 15	Left	Edge: Surface 15, Left
906	55	33,695	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
907	55	33,695	13	20	Surface 21	Top	Edge: Surface 21, Top
908	55	33,695	13	6,006	Surface 21	Bottom	Edge: Surface 21, Bottom
909	55	33,695	13	6,006	Surface 24	Top	Edge: Surface 24, Top
910	55	33,695	0	1,526	Surface 24	Bottom	Edge: Surface 24, Bottom
911	55	33,695	0,86	2,324	Surface 27	Left	Edge: Surface 27, Left
912	55	33,695	0,86	0	Surface 27	Right	Edge: Surface 27, Right
913	55	33,695	0,86	0	Surface 29	Top	Edge: Surface 29, Top
914	55	33,695	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
915	56	34,465	-13	6	Surface 7	Internal	DWL
916	56	34,465	13	6	Surface 21	Internal	DWL
917	56	34,465	-13	5,958	Surface 7	Left	Edge: Surface 7, Left
918	56	34,465	-13	20	Surface 7	Right	Edge: Surface 7, Right
919	56	34,465	0	1,421	Surface 10	Left	Edge: Surface 10, Left
920	56	34,465	-13	5,958	Surface 10	Right	Edge: Surface 10, Right
921	56	34,465	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
922	56	34,465	-0,86	2,221	Surface 13	Bottom	Edge: Surface 13, Bottom
923	56	34,465	0	0	Surface 15	Left	Edge: Surface 15, Left
924	56	34,465	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
925	56	34,465	13	20	Surface 21	Top	Edge: Surface 21, Top
926	56	34,465	13	5,958	Surface 21	Bottom	Edge: Surface 21, Bottom
927	56	34,465	13	5,958	Surface 24	Top	Edge: Surface 24, Top
928	56	34,465	0	1,421	Surface 24	Bottom	Edge: Surface 24, Bottom
929	56	34,465	0,86	2,221	Surface 27	Left	Edge: Surface 27, Left
930	56	34,465	0,86	0	Surface 27	Right	Edge: Surface 27, Right
931	56	34,465	0,86	0	Surface 29	Top	Edge: Surface 29, Top

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
932	56	34,465	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
933	57	35,235	-13	6	Surface 7	Internal	DWL
934	57	35,235	13	6	Surface 21	Internal	DWL
935	57	35,235	-13	5,91	Surface 7	Left	Edge: Surface 7, Left
936	57	35,235	-13	20	Surface 7	Right	Edge: Surface 7, Right
937	57	35,235	0	1,318	Surface 10	Left	Edge: Surface 10, Left
938	57	35,235	-13	5,91	Surface 10	Right	Edge: Surface 10, Right
939	57	35,235	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
940	57	35,235	-0,86	2,122	Surface 13	Bottom	Edge: Surface 13, Bottom
941	57	35,235	0	0	Surface 15	Left	Edge: Surface 15, Left
942	57	35,235	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
943	57	35,235	13	20	Surface 21	Top	Edge: Surface 21, Top
944	57	35,235	13	5,91	Surface 21	Bottom	Edge: Surface 21, Bottom
945	57	35,235	13	5,91	Surface 24	Top	Edge: Surface 24, Top
946	57	35,235	0	1,318	Surface 24	Bottom	Edge: Surface 24, Bottom
947	57	35,235	0,86	2,122	Surface 27	Left	Edge: Surface 27, Left
948	57	35,235	0,86	0	Surface 27	Right	Edge: Surface 27, Right
949	57	35,235	0,86	0	Surface 29	Top	Edge: Surface 29, Top
950	57	35,235	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
951	58	36,005	-13	6	Surface 7	Internal	DWL
952	58	36,005	13	6	Surface 21	Internal	DWL
953	58	36,005	-13	5,86	Surface 7	Left	Edge: Surface 7, Left
954	58	36,005	-13	20	Surface 7	Right	Edge: Surface 7, Right
955	58	36,005	0	1,219	Surface 10	Left	Edge: Surface 10, Left
956	58	36,005	-13	5,86	Surface 10	Right	Edge: Surface 10, Right
957	58	36,005	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
958	58	36,005	-0,86	2,025	Surface 13	Bottom	Edge: Surface 13, Bottom
959	58	36,005	0	0	Surface 15	Left	Edge: Surface 15, Left
960	58	36,005	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
961	58	36,005	13	20	Surface 21	Top	Edge: Surface 21, Top
962	58	36,005	13	5,86	Surface 21	Bottom	Edge: Surface 21, Bottom
963	58	36,005	13	5,86	Surface 24	Top	Edge: Surface 24, Top
964	58	36,005	0	1,219	Surface 24	Bottom	Edge: Surface 24, Bottom
965	58	36,005	0,86	2,025	Surface 27	Left	Edge: Surface 27, Left
966	58	36,005	0,86	0	Surface 27	Right	Edge: Surface 27, Right
967	58	36,005	0,86	0	Surface 29	Top	Edge: Surface 29, Top
968	58	36,005	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
969	59	36,775	-13	6	Surface 7	Internal	DWL
970	59	36,775	13	6	Surface 21	Internal	DWL
971	59	36,775	-13	5,81	Surface 7	Left	Edge: Surface 7, Left
972	59	36,775	-13	20	Surface 7	Right	Edge: Surface 7, Right
973	59	36,775	0	1,123	Surface 10	Left	Edge: Surface 10, Left
974	59	36,775	-13	5,81	Surface 10	Right	Edge: Surface 10, Right
975	59	36,775	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
976	59	36,775	-0,86	1,931	Surface 13	Bottom	Edge: Surface 13, Bottom
977	59	36,775	0	0	Surface 15	Left	Edge: Surface 15, Left
978	59	36,775	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
979	59	36,775	13	20	Surface 21	Top	Edge: Surface 21, Top
980	59	36,775	13	5,81	Surface 21	Bottom	Edge: Surface 21, Bottom

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
981	59	36,775	13	5,81	Surface 24	Top	Edge: Surface 24, Top
982	59	36,775	0	1,123	Surface 24	Bottom	Edge: Surface 24, Bottom
983	59	36,775	0,86	1,931	Surface 27	Left	Edge: Surface 27, Left
984	59	36,775	0,86	0	Surface 27	Right	Edge: Surface 27, Right
985	59	36,775	0,86	0	Surface 29	Top	Edge: Surface 29, Top
986	59	36,775	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
987	60	37,545	-13	6	Surface 7	Internal	DWL
988	60	37,545	13	6	Surface 21	Internal	DWL
989	60	37,545	-13	5,758	Surface 7	Left	Edge: Surface 7, Left
990	60	37,545	-13	20	Surface 7	Right	Edge: Surface 7, Right
991	60	37,545	0	1,03	Surface 10	Left	Edge: Surface 10, Left
992	60	37,545	-13	5,758	Surface 10	Right	Edge: Surface 10, Right
993	60	37,545	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
994	60	37,545	-0,86	1,839	Surface 13	Bottom	Edge: Surface 13, Bottom
995	60	37,545	0	0	Surface 15	Left	Edge: Surface 15, Left
996	60	37,545	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
997	60	37,545	13	20	Surface 21	Top	Edge: Surface 21, Top
998	60	37,545	13	5,758	Surface 21	Bottom	Edge: Surface 21, Bottom
999	60	37,545	13	5,758	Surface 24	Top	Edge: Surface 24, Top
1000	60	37,545	0	1,03	Surface 24	Bottom	Edge: Surface 24, Bottom
1001	60	37,545	0,86	1,839	Surface 27	Left	Edge: Surface 27, Left
1002	60	37,545	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1003	60	37,545	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1004	60	37,545	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
1005	61	38,315	-13	6	Surface 7	Internal	DWL
1006	61	38,315	13	6	Surface 21	Internal	DWL
1007	61	38,315	-13	5,705	Surface 7	Left	Edge: Surface 7, Left
1008	61	38,315	-13	20	Surface 7	Right	Edge: Surface 7, Right
1009	61	38,315	0	0,942	Surface 10	Left	Edge: Surface 10, Left
1010	61	38,315	-13	5,705	Surface 10	Right	Edge: Surface 10, Right
1011	61	38,315	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1012	61	38,315	-0,86	1,751	Surface 13	Bottom	Edge: Surface 13, Bottom
1013	61	38,315	0	0	Surface 15	Left	Edge: Surface 15, Left
1014	61	38,315	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1015	61	38,315	13	20	Surface 21	Top	Edge: Surface 21, Top
1016	61	38,315	13	5,705	Surface 21	Bottom	Edge: Surface 21, Bottom
1017	61	38,315	13	5,705	Surface 24	Top	Edge: Surface 24, Top
1018	61	38,315	0	0,942	Surface 24	Bottom	Edge: Surface 24, Bottom
1019	61	38,315	0,86	1,751	Surface 27	Left	Edge: Surface 27, Left
1020	61	38,315	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1021	61	38,315	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1022	61	38,315	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
1023	62	39,085	-13	6	Surface 7	Internal	DWL
1024	62	39,085	13	6	Surface 21	Internal	DWL
1025	62	39,085	-13	5,65	Surface 7	Left	Edge: Surface 7, Left
1026	62	39,085	-13	20	Surface 7	Right	Edge: Surface 7, Right
1027	62	39,085	0	0,857	Surface 10	Left	Edge: Surface 10, Left
1028	62	39,085	-13	5,65	Surface 10	Right	Edge: Surface 10, Right
1029	62	39,085	-0,86	0	Surface 13	Top	Edge: Surface 13, Top

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
1030	62	39,085	-0,86	1,665	Surface 13	Bottom	Edge: Surface 13, Bottom
1031	62	39,085	0	0	Surface 15	Left	Edge: Surface 15, Left
1032	62	39,085	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1033	62	39,085	13	20	Surface 21	Top	Edge: Surface 21, Top
1034	62	39,085	13	5,65	Surface 21	Bottom	Edge: Surface 21, Bottom
1035	62	39,085	13	5,65	Surface 24	Top	Edge: Surface 24, Top
1036	62	39,085	0	0,857	Surface 24	Bottom	Edge: Surface 24, Bottom
1037	62	39,085	0,86	1,665	Surface 27	Left	Edge: Surface 27, Left
1038	62	39,085	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1039	62	39,085	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1040	62	39,085	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
1041	63	39,855	-13	6	Surface 7	Internal	DWL
1042	63	39,855	13	6	Surface 21	Internal	DWL
1043	63	39,855	-13	5,595	Surface 7	Left	Edge: Surface 7, Left
1044	63	39,855	-13	20	Surface 7	Right	Edge: Surface 7, Right
1045	63	39,855	0	0,777	Surface 10	Left	Edge: Surface 10, Left
1046	63	39,855	-13	5,595	Surface 10	Right	Edge: Surface 10, Right
1047	63	39,855	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1048	63	39,855	-0,86	1,582	Surface 13	Bottom	Edge: Surface 13, Bottom
1049	63	39,855	0	0	Surface 15	Left	Edge: Surface 15, Left
1050	63	39,855	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1051	63	39,855	13	20	Surface 21	Top	Edge: Surface 21, Top
1052	63	39,855	13	5,595	Surface 21	Bottom	Edge: Surface 21, Bottom
1053	63	39,855	13	5,595	Surface 24	Top	Edge: Surface 24, Top
1054	63	39,855	0	0,777	Surface 24	Bottom	Edge: Surface 24, Bottom
1055	63	39,855	0,86	1,582	Surface 27	Left	Edge: Surface 27, Left
1056	63	39,855	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1057	63	39,855	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1058	63	39,855	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
1059	64	40,625	-13	6	Surface 7	Internal	DWL
1060	64	40,625	13	6	Surface 21	Internal	DWL
1061	64	40,625	-13	5,538	Surface 7	Left	Edge: Surface 7, Left
1062	64	40,625	-13	20	Surface 7	Right	Edge: Surface 7, Right
1063	64	40,625	0	0,702	Surface 10	Left	Edge: Surface 10, Left
1064	64	40,625	-13	5,538	Surface 10	Right	Edge: Surface 10, Right
1065	64	40,625	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1066	64	40,625	-0,86	1,502	Surface 13	Bottom	Edge: Surface 13, Bottom
1067	64	40,625	0	0	Surface 15	Left	Edge: Surface 15, Left
1068	64	40,625	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1069	64	40,625	13	20	Surface 21	Top	Edge: Surface 21, Top
1070	64	40,625	13	5,538	Surface 21	Bottom	Edge: Surface 21, Bottom
1071	64	40,625	13	5,538	Surface 24	Top	Edge: Surface 24, Top
1072	64	40,625	0	0,702	Surface 24	Bottom	Edge: Surface 24, Bottom
1073	64	40,625	0,86	1,502	Surface 27	Left	Edge: Surface 27, Left
1074	64	40,625	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1075	64	40,625	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1076	64	40,625	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
1077	65	41,395	-13	6	Surface 7	Internal	DWL
1078	65	41,395	13	6	Surface 21	Internal	DWL

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
1079	65	41,395	-13	5,479	Surface 7	Left	Edge: Surface 7, Left
1080	65	41,395	-13	20	Surface 7	Right	Edge: Surface 7, Right
1081	65	41,395	0	0,631	Surface 10	Left	Edge: Surface 10, Left
1082	65	41,395	-13	5,479	Surface 10	Right	Edge: Surface 10, Right
1083	65	41,395	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1084	65	41,395	-0,86	1,425	Surface 13	Bottom	Edge: Surface 13, Bottom
1085	65	41,395	0	0	Surface 15	Left	Edge: Surface 15, Left
1086	65	41,395	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1087	65	41,395	13	20	Surface 21	Top	Edge: Surface 21, Top
1088	65	41,395	13	5,479	Surface 21	Bottom	Edge: Surface 21, Bottom
1089	65	41,395	13	5,479	Surface 24	Top	Edge: Surface 24, Top
1090	65	41,395	0	0,631	Surface 24	Bottom	Edge: Surface 24, Bottom
1091	65	41,395	0,86	1,425	Surface 27	Left	Edge: Surface 27, Left
1092	65	41,395	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1093	65	41,395	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1094	65	41,395	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
1095	66	42,165	-13	6	Surface 7	Internal	DWL
1096	66	42,165	13	6	Surface 21	Internal	DWL
1097	66	42,165	-13	5,42	Surface 7	Left	Edge: Surface 7, Left
1098	66	42,165	-13	20	Surface 7	Right	Edge: Surface 7, Right
1099	66	42,165	0	0,566	Surface 10	Left	Edge: Surface 10, Left
1100	66	42,165	-13	5,42	Surface 10	Right	Edge: Surface 10, Right
1101	66	42,165	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1102	66	42,165	-0,86	1,352	Surface 13	Bottom	Edge: Surface 13, Bottom
1103	66	42,165	0	0	Surface 15	Left	Edge: Surface 15, Left
1104	66	42,165	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1105	66	42,165	13	20	Surface 21	Top	Edge: Surface 21, Top
1106	66	42,165	13	5,42	Surface 21	Bottom	Edge: Surface 21, Bottom
1107	66	42,165	13	5,42	Surface 24	Top	Edge: Surface 24, Top
1108	66	42,165	0	0,566	Surface 24	Bottom	Edge: Surface 24, Bottom
1109	66	42,165	0,86	1,352	Surface 27	Left	Edge: Surface 27, Left
1110	66	42,165	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1111	66	42,165	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1112	66	42,165	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
1113	67	42,935	-13	6	Surface 7	Internal	DWL
1114	67	42,935	13	6	Surface 21	Internal	DWL
1115	67	42,935	-13	5,358	Surface 7	Left	Edge: Surface 7, Left
1116	67	42,935	-13	20	Surface 7	Right	Edge: Surface 7, Right
1117	67	42,935	0	0,504	Surface 10	Left	Edge: Surface 10, Left
1118	67	42,935	-13	5,358	Surface 10	Right	Edge: Surface 10, Right
1119	67	42,935	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1120	67	42,935	-0,86	1,281	Surface 13	Bottom	Edge: Surface 13, Bottom
1121	67	42,935	0	0	Surface 15	Left	Edge: Surface 15, Left
1122	67	42,935	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1123	67	42,935	13	20	Surface 21	Top	Edge: Surface 21, Top
1124	67	42,935	13	5,358	Surface 21	Bottom	Edge: Surface 21, Bottom
1125	67	42,935	13	5,358	Surface 24	Top	Edge: Surface 24, Top
1126	67	42,935	0	0,504	Surface 24	Bottom	Edge: Surface 24, Bottom
1127	67	42,935	0,86	1,281	Surface 27	Left	Edge: Surface 27, Left

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
1128	67	42,935	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1129	67	42,935	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1130	67	42,935	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
1131	68	43,705	-13	6	Surface 7	Internal	DWL
1132	68	43,705	13	6	Surface 21	Internal	DWL
1133	68	43,705	-13	5,295	Surface 7	Left	Edge: Surface 7, Left
1134	68	43,705	-13	20	Surface 7	Right	Edge: Surface 7, Right
1135	68	43,705	0	0,447	Surface 10	Left	Edge: Surface 10, Left
1136	68	43,705	-13	5,295	Surface 10	Right	Edge: Surface 10, Right
1137	68	43,705	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1138	68	43,705	-0,86	1,214	Surface 13	Bottom	Edge: Surface 13, Bottom
1139	68	43,705	0	0	Surface 15	Left	Edge: Surface 15, Left
1140	68	43,705	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1141	68	43,705	13	20	Surface 21	Top	Edge: Surface 21, Top
1142	68	43,705	13	5,295	Surface 21	Bottom	Edge: Surface 21, Bottom
1143	68	43,705	13	5,295	Surface 24	Top	Edge: Surface 24, Top
1144	68	43,705	0	0,447	Surface 24	Bottom	Edge: Surface 24, Bottom
1145	68	43,705	0,86	1,214	Surface 27	Left	Edge: Surface 27, Left
1146	68	43,705	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1147	68	43,705	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1148	68	43,705	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
1149	69	44,475	-13	6	Surface 7	Internal	DWL
1150	69	44,475	13	6	Surface 21	Internal	DWL
1151	69	44,475	-13	5,231	Surface 7	Left	Edge: Surface 7, Left
1152	69	44,475	-13	20	Surface 7	Right	Edge: Surface 7, Right
1153	69	44,475	0	0,394	Surface 10	Left	Edge: Surface 10, Left
1154	69	44,475	-13	5,231	Surface 10	Right	Edge: Surface 10, Right
1155	69	44,475	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1156	69	44,475	-0,86	1,151	Surface 13	Bottom	Edge: Surface 13, Bottom
1157	69	44,475	0	0	Surface 15	Left	Edge: Surface 15, Left
1158	69	44,475	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1159	69	44,475	13	20	Surface 21	Top	Edge: Surface 21, Top
1160	69	44,475	13	5,231	Surface 21	Bottom	Edge: Surface 21, Bottom
1161	69	44,475	13	5,231	Surface 24	Top	Edge: Surface 24, Top
1162	69	44,475	0	0,394	Surface 24	Bottom	Edge: Surface 24, Bottom
1163	69	44,475	0,86	1,151	Surface 27	Left	Edge: Surface 27, Left
1164	69	44,475	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1165	69	44,475	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1166	69	44,475	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
1167	70	45,245	-13	6	Surface 7	Internal	DWL
1168	70	45,245	13	6	Surface 21	Internal	DWL
1169	70	45,245	-13	5,165	Surface 7	Left	Edge: Surface 7, Left
1170	70	45,245	-13	20	Surface 7	Right	Edge: Surface 7, Right
1171	70	45,245	0	0,346	Surface 10	Left	Edge: Surface 10, Left
1172	70	45,245	-13	5,165	Surface 10	Right	Edge: Surface 10, Right
1173	70	45,245	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1174	70	45,245	-0,86	1,091	Surface 13	Bottom	Edge: Surface 13, Bottom
1175	70	45,245	0	0	Surface 15	Left	Edge: Surface 15, Left
1176	70	45,245	-0,86	0	Surface 15	Right	Edge: Surface 15, Right

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
1177	70	45,245	13	20	Surface 21	Top	Edge: Surface 21, Top
1178	70	45,245	13	5,165	Surface 21	Bottom	Edge: Surface 21, Bottom
1179	70	45,245	13	5,165	Surface 24	Top	Edge: Surface 24, Top
1180	70	45,245	0	0,346	Surface 24	Bottom	Edge: Surface 24, Bottom
1181	70	45,245	0,86	1,091	Surface 27	Left	Edge: Surface 27, Left
1182	70	45,245	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1183	70	45,245	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1184	70	45,245	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
1185	71	46,015	-13	6	Surface 7	Internal	DWL
1186	71	46,015	13	6	Surface 21	Internal	DWL
1187	71	46,015	-13	5,097	Surface 7	Left	Edge: Surface 7, Left
1188	71	46,015	-13	20	Surface 7	Right	Edge: Surface 7, Right
1189	71	46,015	0	0,302	Surface 10	Left	Edge: Surface 10, Left
1190	71	46,015	-13	5,097	Surface 10	Right	Edge: Surface 10, Right
1191	71	46,015	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1192	71	46,015	-0,86	1,034	Surface 13	Bottom	Edge: Surface 13, Bottom
1193	71	46,015	0	0	Surface 15	Left	Edge: Surface 15, Left
1194	71	46,015	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1195	71	46,015	13	20	Surface 21	Top	Edge: Surface 21, Top
1196	71	46,015	13	5,097	Surface 21	Bottom	Edge: Surface 21, Bottom
1197	71	46,015	13	5,097	Surface 24	Top	Edge: Surface 24, Top
1198	71	46,015	0	0,302	Surface 24	Bottom	Edge: Surface 24, Bottom
1199	71	46,015	0,86	1,034	Surface 27	Left	Edge: Surface 27, Left
1200	71	46,015	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1201	71	46,015	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1202	71	46,015	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
1203	72	46,785	-13	6	Surface 7	Internal	DWL
1204	72	46,785	13	6	Surface 21	Internal	DWL
1205	72	46,785	-13	5,027	Surface 7	Left	Edge: Surface 7, Left
1206	72	46,785	-13	20	Surface 7	Right	Edge: Surface 7, Right
1207	72	46,785	0	0,261	Surface 10	Left	Edge: Surface 10, Left
1208	72	46,785	-13	5,027	Surface 10	Right	Edge: Surface 10, Right
1209	72	46,785	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1210	72	46,785	-0,86	0,982	Surface 13	Bottom	Edge: Surface 13, Bottom
1211	72	46,785	0	0	Surface 15	Left	Edge: Surface 15, Left
1212	72	46,785	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1213	72	46,785	13	20	Surface 21	Top	Edge: Surface 21, Top
1214	72	46,785	13	5,027	Surface 21	Bottom	Edge: Surface 21, Bottom
1215	72	46,785	13	5,027	Surface 24	Top	Edge: Surface 24, Top
1216	72	46,785	0	0,261	Surface 24	Bottom	Edge: Surface 24, Bottom
1217	72	46,785	0,86	0,982	Surface 27	Left	Edge: Surface 27, Left
1218	72	46,785	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1219	72	46,785	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1220	72	46,785	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
1221	73	47,555	-13	6	Surface 7	Internal	DWL
1222	73	47,555	13	6	Surface 21	Internal	DWL
1223	73	47,555	-13	4,956	Surface 7	Left	Edge: Surface 7, Left
1224	73	47,555	-13	20	Surface 7	Right	Edge: Surface 7, Right
1225	73	47,555	0	0,225	Surface 10	Left	Edge: Surface 10, Left

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
1226	73	47,555	-13	4,956	Surface 10	Right	Edge: Surface 10, Right
1227	73	47,555	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1228	73	47,555	-0,86	0,932	Surface 13	Bottom	Edge: Surface 13, Bottom
1229	73	47,555	0	0	Surface 15	Left	Edge: Surface 15, Left
1230	73	47,555	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1231	73	47,555	13	20	Surface 21	Top	Edge: Surface 21, Top
1232	73	47,555	13	4,956	Surface 21	Bottom	Edge: Surface 21, Bottom
1233	73	47,555	13	4,956	Surface 24	Top	Edge: Surface 24, Top
1234	73	47,555	0	0,225	Surface 24	Bottom	Edge: Surface 24, Bottom
1235	73	47,555	0,86	0,932	Surface 27	Left	Edge: Surface 27, Left
1236	73	47,555	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1237	73	47,555	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1238	73	47,555	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
1239	74	48,325	-13	6	Surface 7	Internal	DWL
1240	74	48,325	13	6	Surface 21	Internal	DWL
1241	74	48,325	-13	4,883	Surface 7	Left	Edge: Surface 7, Left
1242	74	48,325	-13	20	Surface 7	Right	Edge: Surface 7, Right
1243	74	48,325	0	0,192	Surface 10	Left	Edge: Surface 10, Left
1244	74	48,325	-13	4,883	Surface 10	Right	Edge: Surface 10, Right
1245	74	48,325	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1246	74	48,325	-0,86	0,887	Surface 13	Bottom	Edge: Surface 13, Bottom
1247	74	48,325	0	0	Surface 15	Left	Edge: Surface 15, Left
1248	74	48,325	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1249	74	48,325	13	20	Surface 21	Top	Edge: Surface 21, Top
1250	74	48,325	13	4,883	Surface 21	Bottom	Edge: Surface 21, Bottom
1251	74	48,325	13	4,883	Surface 24	Top	Edge: Surface 24, Top
1252	74	48,325	0	0,192	Surface 24	Bottom	Edge: Surface 24, Bottom
1253	74	48,325	0,86	0,887	Surface 27	Left	Edge: Surface 27, Left
1254	74	48,325	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1255	74	48,325	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1256	74	48,325	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
1257	75	49,095	-13	6	Surface 7	Internal	DWL
1258	75	49,095	13	6	Surface 21	Internal	DWL
1259	75	49,095	-13	4,808	Surface 7	Left	Edge: Surface 7, Left
1260	75	49,095	-13	20	Surface 7	Right	Edge: Surface 7, Right
1261	75	49,095	0	0,162	Surface 10	Left	Edge: Surface 10, Left
1262	75	49,095	-13	4,808	Surface 10	Right	Edge: Surface 10, Right
1263	75	49,095	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1264	75	49,095	-0,86	0,845	Surface 13	Bottom	Edge: Surface 13, Bottom
1265	75	49,095	0	0	Surface 15	Left	Edge: Surface 15, Left
1266	75	49,095	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1267	75	49,095	13	20	Surface 21	Top	Edge: Surface 21, Top
1268	75	49,095	13	4,808	Surface 21	Bottom	Edge: Surface 21, Bottom
1269	75	49,095	13	4,808	Surface 24	Top	Edge: Surface 24, Top
1270	75	49,095	0	0,162	Surface 24	Bottom	Edge: Surface 24, Bottom
1271	75	49,095	0,86	0,845	Surface 27	Left	Edge: Surface 27, Left
1272	75	49,095	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1273	75	49,095	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1274	75	49,095	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
1275	76	49,865	-13	6	Surface 7	Internal	DWL
1276	76	49,865	13	6	Surface 21	Internal	DWL
1277	76	49,865	-13	4,732	Surface 7	Left	Edge: Surface 7, Left
1278	76	49,865	-13	20	Surface 7	Right	Edge: Surface 7, Right
1279	76	49,865	0	0,136	Surface 10	Left	Edge: Surface 10, Left
1280	76	49,865	-13	4,732	Surface 10	Right	Edge: Surface 10, Right
1281	76	49,865	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1282	76	49,865	-0,86	0,806	Surface 13	Bottom	Edge: Surface 13, Bottom
1283	76	49,865	0	0	Surface 15	Left	Edge: Surface 15, Left
1284	76	49,865	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1285	76	49,865	13	20	Surface 21	Top	Edge: Surface 21, Top
1286	76	49,865	13	4,732	Surface 21	Bottom	Edge: Surface 21, Bottom
1287	76	49,865	13	4,732	Surface 24	Top	Edge: Surface 24, Top
1288	76	49,865	0	0,136	Surface 24	Bottom	Edge: Surface 24, Bottom
1289	76	49,865	0,86	0,806	Surface 27	Left	Edge: Surface 27, Left
1290	76	49,865	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1291	76	49,865	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1292	76	49,865	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
1293	77	50,635	-13	6	Surface 7	Internal	DWL
1294	77	50,635	13	6	Surface 21	Internal	DWL
1295	77	50,635	-13	4,654	Surface 7	Left	Edge: Surface 7, Left
1296	77	50,635	-13	20	Surface 7	Right	Edge: Surface 7, Right
1297	77	50,635	0	0,113	Surface 10	Left	Edge: Surface 10, Left
1298	77	50,635	-13	4,654	Surface 10	Right	Edge: Surface 10, Right
1299	77	50,635	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1300	77	50,635	-0,86	0,77	Surface 13	Bottom	Edge: Surface 13, Bottom
1301	77	50,635	0	0	Surface 15	Left	Edge: Surface 15, Left
1302	77	50,635	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1303	77	50,635	13	20	Surface 21	Top	Edge: Surface 21, Top
1304	77	50,635	13	4,654	Surface 21	Bottom	Edge: Surface 21, Bottom
1305	77	50,635	13	4,654	Surface 24	Top	Edge: Surface 24, Top
1306	77	50,635	0	0,113	Surface 24	Bottom	Edge: Surface 24, Bottom
1307	77	50,635	0,86	0,77	Surface 27	Left	Edge: Surface 27, Left
1308	77	50,635	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1309	77	50,635	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1310	77	50,635	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
1311	78	51,405	-13	6	Surface 7	Internal	DWL
1312	78	51,405	13	6	Surface 21	Internal	DWL
1313	78	51,405	-13	4,574	Surface 7	Left	Edge: Surface 7, Left
1314	78	51,405	-13	20	Surface 7	Right	Edge: Surface 7, Right
1315	78	51,405	0	0,092	Surface 10	Left	Edge: Surface 10, Left
1316	78	51,405	-13	4,574	Surface 10	Right	Edge: Surface 10, Right
1317	78	51,405	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1318	78	51,405	-0,86	0,738	Surface 13	Bottom	Edge: Surface 13, Bottom
1319	78	51,405	0	0	Surface 15	Left	Edge: Surface 15, Left
1320	78	51,405	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1321	78	51,405	13	20	Surface 21	Top	Edge: Surface 21, Top
1322	78	51,405	13	4,574	Surface 21	Bottom	Edge: Surface 21, Bottom
1323	78	51,405	13	4,574	Surface 24	Top	Edge: Surface 24, Top

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
1324	78	51,405	0	0,092	Surface 24	Bottom	Edge: Surface 24, Bottom
1325	78	51,405	0,86	0,738	Surface 27	Left	Edge: Surface 27, Left
1326	78	51,405	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1327	78	51,405	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1328	78	51,405	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
1329	79	52,175	-13	6	Surface 7	Internal	DWL
1330	79	52,175	13	6	Surface 21	Internal	DWL
1331	79	52,175	-13	4,493	Surface 7	Left	Edge: Surface 7, Left
1332	79	52,175	-13	20	Surface 7	Right	Edge: Surface 7, Right
1333	79	52,175	0	0,074	Surface 10	Left	Edge: Surface 10, Left
1334	79	52,175	-13	4,493	Surface 10	Right	Edge: Surface 10, Right
1335	79	52,175	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1336	79	52,175	-0,86	0,708	Surface 13	Bottom	Edge: Surface 13, Bottom
1337	79	52,175	0	0	Surface 15	Left	Edge: Surface 15, Left
1338	79	52,175	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1339	79	52,175	13	20	Surface 21	Top	Edge: Surface 21, Top
1340	79	52,175	13	4,493	Surface 21	Bottom	Edge: Surface 21, Bottom
1341	79	52,175	13	4,493	Surface 24	Top	Edge: Surface 24, Top
1342	79	52,175	0	0,074	Surface 24	Bottom	Edge: Surface 24, Bottom
1343	79	52,175	0,86	0,708	Surface 27	Left	Edge: Surface 27, Left
1344	79	52,175	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1345	79	52,175	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1346	79	52,175	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
1347	80	52,945	-13	6	Surface 7	Internal	DWL
1348	80	52,945	13	6	Surface 21	Internal	DWL
1349	80	52,945	-13	4,41	Surface 7	Left	Edge: Surface 7, Left
1350	80	52,945	-13	20	Surface 7	Right	Edge: Surface 7, Right
1351	80	52,945	0	0,058	Surface 10	Left	Edge: Surface 10, Left
1352	80	52,945	-13	4,41	Surface 10	Right	Edge: Surface 10, Right
1353	80	52,945	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1354	80	52,945	-0,86	0,681	Surface 13	Bottom	Edge: Surface 13, Bottom
1355	80	52,945	0	0	Surface 15	Left	Edge: Surface 15, Left
1356	80	52,945	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1357	80	52,945	13	20	Surface 21	Top	Edge: Surface 21, Top
1358	80	52,945	13	4,41	Surface 21	Bottom	Edge: Surface 21, Bottom
1359	80	52,945	13	4,41	Surface 24	Top	Edge: Surface 24, Top
1360	80	52,945	0	0,058	Surface 24	Bottom	Edge: Surface 24, Bottom
1361	80	52,945	0,86	0,681	Surface 27	Left	Edge: Surface 27, Left
1362	80	52,945	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1363	80	52,945	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1364	80	52,945	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
1365	81	53,715	-13	6	Surface 7	Internal	DWL
1366	81	53,715	13	6	Surface 21	Internal	DWL
1367	81	53,715	-13	4,326	Surface 7	Left	Edge: Surface 7, Left
1368	81	53,715	-13	20	Surface 7	Right	Edge: Surface 7, Right
1369	81	53,715	0	0,045	Surface 10	Left	Edge: Surface 10, Left
1370	81	53,715	-13	4,326	Surface 10	Right	Edge: Surface 10, Right
1371	81	53,715	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1372	81	53,715	-0,86	0,656	Surface 13	Bottom	Edge: Surface 13, Bottom

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
1373	81	53,715	0	0	Surface 15	Left	Edge: Surface 15, Left
1374	81	53,715	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1375	81	53,715	13	20	Surface 21	Top	Edge: Surface 21, Top
1376	81	53,715	13	4,326	Surface 21	Bottom	Edge: Surface 21, Bottom
1377	81	53,715	13	4,326	Surface 24	Top	Edge: Surface 24, Top
1378	81	53,715	0	0,045	Surface 24	Bottom	Edge: Surface 24, Bottom
1379	81	53,715	0,86	0,656	Surface 27	Left	Edge: Surface 27, Left
1380	81	53,715	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1381	81	53,715	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1382	81	53,715	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
1383	82	54,485	-13	6	Surface 7	Internal	DWL
1384	82	54,485	13	6	Surface 21	Internal	DWL
1385	82	54,485	-13	4,24	Surface 7	Left	Edge: Surface 7, Left
1386	82	54,485	-13	20	Surface 7	Right	Edge: Surface 7, Right
1387	82	54,485	0	0,034	Surface 10	Left	Edge: Surface 10, Left
1388	82	54,485	-13	4,24	Surface 10	Right	Edge: Surface 10, Right
1389	82	54,485	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1390	82	54,485	-0,86	0,634	Surface 13	Bottom	Edge: Surface 13, Bottom
1391	82	54,485	0	0	Surface 15	Left	Edge: Surface 15, Left
1392	82	54,485	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1393	82	54,485	13	20	Surface 21	Top	Edge: Surface 21, Top
1394	82	54,485	13	4,24	Surface 21	Bottom	Edge: Surface 21, Bottom
1395	82	54,485	13	4,24	Surface 24	Top	Edge: Surface 24, Top
1396	82	54,485	0	0,034	Surface 24	Bottom	Edge: Surface 24, Bottom
1397	82	54,485	0,86	0,634	Surface 27	Left	Edge: Surface 27, Left
1398	82	54,485	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1399	82	54,485	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1400	82	54,485	0	0	Surface 29	Bottom	Edge: Surface 29, Bottom
1401	83	55,255	-13	6	Surface 7	Internal	DWL
1402	83	55,255	13	6	Surface 21	Internal	DWL
1403	83	55,255	-13	4,152	Surface 7	Left	Edge: Surface 7, Left
1404	83	55,255	-13	20	Surface 7	Right	Edge: Surface 7, Right
1405	83	55,255	0	0,025	Surface 10	Left	Edge: Surface 10, Left
1406	83	55,255	-13	4,152	Surface 10	Right	Edge: Surface 10, Right
1407	83	55,255	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1408	83	55,255	-0,86	0,614	Surface 13	Bottom	Edge: Surface 13, Bottom
1409	83	55,255	0	0,001	Surface 15	Left	Edge: Surface 15, Left
1410	83	55,255	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1411	83	55,255	13	20	Surface 21	Top	Edge: Surface 21, Top
1412	83	55,255	13	4,152	Surface 21	Bottom	Edge: Surface 21, Bottom
1413	83	55,255	13	4,152	Surface 24	Top	Edge: Surface 24, Top
1414	83	55,255	0	0,025	Surface 24	Bottom	Edge: Surface 24, Bottom
1415	83	55,255	0,86	0,614	Surface 27	Left	Edge: Surface 27, Left
1416	83	55,255	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1417	83	55,255	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1418	83	55,255	0	0,001	Surface 29	Bottom	Edge: Surface 29, Bottom
1419	84	56,025	-13	6	Surface 7	Internal	DWL
1420	84	56,025	13	6	Surface 21	Internal	DWL
1421	84	56,025	-13	4,063	Surface 7	Left	Edge: Surface 7, Left

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
1422	84	56,025	-13	20	Surface 7	Right	Edge: Surface 7, Right
1423	84	56,025	0	0,018	Surface 10	Left	Edge: Surface 10, Left
1424	84	56,025	-13	4,063	Surface 10	Right	Edge: Surface 10, Right
1425	84	56,025	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1426	84	56,025	-0,86	0,597	Surface 13	Bottom	Edge: Surface 13, Bottom
1427	84	56,025	0	0,001	Surface 15	Left	Edge: Surface 15, Left
1428	84	56,025	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1429	84	56,025	13	20	Surface 21	Top	Edge: Surface 21, Top
1430	84	56,025	13	4,063	Surface 21	Bottom	Edge: Surface 21, Bottom
1431	84	56,025	13	4,063	Surface 24	Top	Edge: Surface 24, Top
1432	84	56,025	0	0,018	Surface 24	Bottom	Edge: Surface 24, Bottom
1433	84	56,025	0,86	0,597	Surface 27	Left	Edge: Surface 27, Left
1434	84	56,025	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1435	84	56,025	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1436	84	56,025	0	0,001	Surface 29	Bottom	Edge: Surface 29, Bottom
1437	85	56,795	-13	6	Surface 7	Internal	DWL
1438	85	56,795	13	6	Surface 21	Internal	DWL
1439	85	56,795	-13	3,972	Surface 7	Left	Edge: Surface 7, Left
1440	85	56,795	-13	20	Surface 7	Right	Edge: Surface 7, Right
1441	85	56,795	0	0,012	Surface 10	Left	Edge: Surface 10, Left
1442	85	56,795	-13	3,972	Surface 10	Right	Edge: Surface 10, Right
1443	85	56,795	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1444	85	56,795	-0,86	0,582	Surface 13	Bottom	Edge: Surface 13, Bottom
1445	85	56,795	0	0,001	Surface 15	Left	Edge: Surface 15, Left
1446	85	56,795	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1447	85	56,795	13	20	Surface 21	Top	Edge: Surface 21, Top
1448	85	56,795	13	3,972	Surface 21	Bottom	Edge: Surface 21, Bottom
1449	85	56,795	13	3,972	Surface 24	Top	Edge: Surface 24, Top
1450	85	56,795	0	0,012	Surface 24	Bottom	Edge: Surface 24, Bottom
1451	85	56,795	0,86	0,582	Surface 27	Left	Edge: Surface 27, Left
1452	85	56,795	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1453	85	56,795	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1454	85	56,795	0	0,001	Surface 29	Bottom	Edge: Surface 29, Bottom
1455	86	57,565	-13	6	Surface 7	Internal	DWL
1456	86	57,565	13	6	Surface 21	Internal	DWL
1457	86	57,565	-13	3,88	Surface 7	Left	Edge: Surface 7, Left
1458	86	57,565	-13	20	Surface 7	Right	Edge: Surface 7, Right
1459	86	57,565	0	0,008	Surface 10	Left	Edge: Surface 10, Left
1460	86	57,565	-13	3,88	Surface 10	Right	Edge: Surface 10, Right
1461	86	57,565	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1462	86	57,565	-0,86	0,569	Surface 13	Bottom	Edge: Surface 13, Bottom
1463	86	57,565	0	0,002	Surface 15	Left	Edge: Surface 15, Left
1464	86	57,565	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1465	86	57,565	13	20	Surface 21	Top	Edge: Surface 21, Top
1466	86	57,565	13	3,88	Surface 21	Bottom	Edge: Surface 21, Bottom
1467	86	57,565	13	3,88	Surface 24	Top	Edge: Surface 24, Top
1468	86	57,565	0	0,008	Surface 24	Bottom	Edge: Surface 24, Bottom
1469	86	57,565	0,86	0,569	Surface 27	Left	Edge: Surface 27, Left
1470	86	57,565	0,86	0	Surface 27	Right	Edge: Surface 27, Right

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
1471	86	57,565	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1472	86	57,565	0	0,002	Surface 29	Bottom	Edge: Surface 29, Bottom
1473	87	58,335	-13	6	Surface 7	Internal	DWL
1474	87	58,335	13	6	Surface 21	Internal	DWL
1475	87	58,335	-13	3,787	Surface 7	Left	Edge: Surface 7, Left
1476	87	58,335	-13	20	Surface 7	Right	Edge: Surface 7, Right
1477	87	58,335	0	0,005	Surface 10	Left	Edge: Surface 10, Left
1478	87	58,335	-13	3,787	Surface 10	Right	Edge: Surface 10, Right
1479	87	58,335	-0,86	0	Surface 13	Top	Edge: Surface 13, Top
1480	87	58,335	-0,86	0,558	Surface 13	Bottom	Edge: Surface 13, Bottom
1481	87	58,335	0	0,002	Surface 15	Left	Edge: Surface 15, Left
1482	87	58,335	-0,86	0	Surface 15	Right	Edge: Surface 15, Right
1483	87	58,335	13	20	Surface 21	Top	Edge: Surface 21, Top
1484	87	58,335	13	3,787	Surface 21	Bottom	Edge: Surface 21, Bottom
1485	87	58,335	13	3,787	Surface 24	Top	Edge: Surface 24, Top
1486	87	58,335	0	0,005	Surface 24	Bottom	Edge: Surface 24, Bottom
1487	87	58,335	0,86	0,558	Surface 27	Left	Edge: Surface 27, Left
1488	87	58,335	0,86	0	Surface 27	Right	Edge: Surface 27, Right
1489	87	58,335	0,86	0	Surface 29	Top	Edge: Surface 29, Top
1490	87	58,335	0	0,002	Surface 29	Bottom	Edge: Surface 29, Bottom
1491	88	59,105	-13	6	Surface 17	Internal	DWL
1492	88	59,105	13	6	Surface 32	Internal	DWL
1493	88	59,105	4,171	0,006	Surface 1	Top	Edge: Surface 1, Top
1494	88	59,105	0	0,002	Surface 1	Bottom	Edge: Surface 1, Bottom
1495	88	59,105	13	3,693	Surface 3	Top	Edge: Surface 3, Top
1496	88	59,105	4,171	0,006	Surface 3	Bottom	Edge: Surface 3, Bottom
1497	88	59,105	0	0,002	Surface 5	Left	Edge: Surface 5, Left
1498	88	59,105	-4,171	0,006	Surface 5	Right	Edge: Surface 5, Right
1499	88	59,105	-4,171	0,006	Surface 6	Left	Edge: Surface 6, Left
1500	88	59,105	-13	3,693	Surface 6	Right	Edge: Surface 6, Right
1501	88	59,105	-13	3,693	Surface 17	Left	Edge: Surface 17, Left
1502	88	59,105	-13	20	Surface 17	Right	Edge: Surface 17, Right
1503	88	59,105	13	20	Surface 32	Top	Edge: Surface 32, Top
1504	88	59,105	13	3,693	Surface 32	Bottom	Edge: Surface 32, Bottom
1505	89	59,875	-13	6	Surface 17	Internal	DWL
1506	89	59,875	13	6	Surface 32	Internal	DWL
1507	89	59,875	4,718	0,004	Surface 1	Top	Edge: Surface 1, Top
1508	89	59,875	0	0,001	Surface 1	Bottom	Edge: Surface 1, Bottom
1509	89	59,875	13	3,597	Surface 3	Top	Edge: Surface 3, Top
1510	89	59,875	4,718	0,004	Surface 3	Bottom	Edge: Surface 3, Bottom
1511	89	59,875	0	0,001	Surface 5	Left	Edge: Surface 5, Left
1512	89	59,875	-4,718	0,004	Surface 5	Right	Edge: Surface 5, Right
1513	89	59,875	-4,718	0,004	Surface 6	Left	Edge: Surface 6, Left
1514	89	59,875	-13	3,597	Surface 6	Right	Edge: Surface 6, Right
1515	89	59,875	-13	3,597	Surface 17	Left	Edge: Surface 17, Left
1516	89	59,875	-13	20	Surface 17	Right	Edge: Surface 17, Right
1517	89	59,875	13	20	Surface 32	Top	Edge: Surface 32, Top
1518	89	59,875	13	3,597	Surface 32	Bottom	Edge: Surface 32, Bottom
1519	90	60,645	-13	6	Surface 17	Internal	DWL

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
1520	90	60,645	13	6	Surface 32	Internal	DWL
1521	90	60,645	5,3	0,003	Surface 1	Top	Edge: Surface 1, Top
1522	90	60,645	0	0	Surface 1	Bottom	Edge: Surface 1, Bottom
1523	90	60,645	13	3,501	Surface 3	Top	Edge: Surface 3, Top
1524	90	60,645	5,3	0,003	Surface 3	Bottom	Edge: Surface 3, Bottom
1525	90	60,645	0	0	Surface 5	Left	Edge: Surface 5, Left
1526	90	60,645	-5,3	0,003	Surface 5	Right	Edge: Surface 5, Right
1527	90	60,645	-5,3	0,003	Surface 6	Left	Edge: Surface 6, Left
1528	90	60,645	-13	3,501	Surface 6	Right	Edge: Surface 6, Right
1529	90	60,645	-13	3,501	Surface 17	Left	Edge: Surface 17, Left
1530	90	60,645	-13	20	Surface 17	Right	Edge: Surface 17, Right
1531	90	60,645	13	20	Surface 32	Top	Edge: Surface 32, Top
1532	90	60,645	13	3,501	Surface 32	Bottom	Edge: Surface 32, Bottom
1533	91	61,415	-13	6	Surface 17	Internal	DWL
1534	91	61,415	13	6	Surface 32	Internal	DWL
1535	91	61,415	5,915	0,002	Surface 1	Top	Edge: Surface 1, Top
1536	91	61,415	0	0	Surface 1	Bottom	Edge: Surface 1, Bottom
1537	91	61,415	13	3,404	Surface 3	Top	Edge: Surface 3, Top
1538	91	61,415	5,915	0,002	Surface 3	Bottom	Edge: Surface 3, Bottom
1539	91	61,415	0	0	Surface 5	Left	Edge: Surface 5, Left
1540	91	61,415	-5,915	0,002	Surface 5	Right	Edge: Surface 5, Right
1541	91	61,415	-5,915	0,002	Surface 6	Left	Edge: Surface 6, Left
1542	91	61,415	-13	3,404	Surface 6	Right	Edge: Surface 6, Right
1543	91	61,415	-13	3,404	Surface 17	Left	Edge: Surface 17, Left
1544	91	61,415	-13	20	Surface 17	Right	Edge: Surface 17, Right
1545	91	61,415	13	20	Surface 32	Top	Edge: Surface 32, Top
1546	91	61,415	13	3,404	Surface 32	Bottom	Edge: Surface 32, Bottom
1547	92	62,185	-13	6	Surface 17	Internal	DWL
1548	92	62,185	13	6	Surface 32	Internal	DWL
1549	92	62,185	6,56	0,001	Surface 1	Top	Edge: Surface 1, Top
1550	92	62,185	0	0	Surface 1	Bottom	Edge: Surface 1, Bottom
1551	92	62,185	13	3,306	Surface 3	Top	Edge: Surface 3, Top
1552	92	62,185	6,56	0,001	Surface 3	Bottom	Edge: Surface 3, Bottom
1553	92	62,185	0	0	Surface 5	Left	Edge: Surface 5, Left
1554	92	62,185	-6,56	0,001	Surface 5	Right	Edge: Surface 5, Right
1555	92	62,185	-6,56	0,001	Surface 6	Left	Edge: Surface 6, Left
1556	92	62,185	-13	3,306	Surface 6	Right	Edge: Surface 6, Right
1557	92	62,185	-13	3,306	Surface 17	Left	Edge: Surface 17, Left
1558	92	62,185	-13	20	Surface 17	Right	Edge: Surface 17, Right
1559	92	62,185	13	20	Surface 32	Top	Edge: Surface 32, Top
1560	92	62,185	13	3,306	Surface 32	Bottom	Edge: Surface 32, Bottom
1561	93	62,955	-13	6	Surface 17	Internal	DWL
1562	93	62,955	13	6	Surface 32	Internal	DWL
1563	93	62,955	7,233	0,001	Surface 1	Top	Edge: Surface 1, Top
1564	93	62,955	0	0	Surface 1	Bottom	Edge: Surface 1, Bottom
1565	93	62,955	13	3,208	Surface 3	Top	Edge: Surface 3, Top
1566	93	62,955	7,233	0,001	Surface 3	Bottom	Edge: Surface 3, Bottom
1567	93	62,955	0	0	Surface 5	Left	Edge: Surface 5, Left
1568	93	62,955	-7,233	0,001	Surface 5	Right	Edge: Surface 5, Right

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
1569	93	62,955	-7,233	0,001	Surface 6	Left	Edge: Surface 6, Left
1570	93	62,955	-13	3,208	Surface 6	Right	Edge: Surface 6, Right
1571	93	62,955	-13	3,208	Surface 17	Left	Edge: Surface 17, Left
1572	93	62,955	-13	20	Surface 17	Right	Edge: Surface 17, Right
1573	93	62,955	13	20	Surface 32	Top	Edge: Surface 32, Top
1574	93	62,955	13	3,208	Surface 32	Bottom	Edge: Surface 32, Bottom
1575	94	63,725	-13	6	Surface 17	Internal	DWL
1576	94	63,725	13	6	Surface 32	Internal	DWL
1577	94	63,725	7,908	0	Surface 1	Top	Edge: Surface 1, Top
1578	94	63,725	0	0	Surface 1	Bottom	Edge: Surface 1, Bottom
1579	94	63,725	13	3,112	Surface 3	Top	Edge: Surface 3, Top
1580	94	63,725	7,908	0	Surface 3	Bottom	Edge: Surface 3, Bottom
1581	94	63,725	0	0	Surface 5	Left	Edge: Surface 5, Left
1582	94	63,725	-7,908	0	Surface 5	Right	Edge: Surface 5, Right
1583	94	63,725	-7,908	0	Surface 6	Left	Edge: Surface 6, Left
1584	94	63,725	-13	3,112	Surface 6	Right	Edge: Surface 6, Right
1585	94	63,725	-13	3,112	Surface 17	Left	Edge: Surface 17, Left
1586	94	63,725	-13	20	Surface 17	Right	Edge: Surface 17, Right
1587	94	63,725	13	20	Surface 32	Top	Edge: Surface 32, Top
1588	94	63,725	13	3,112	Surface 32	Bottom	Edge: Surface 32, Bottom
1589	95	64,495	-13	6	Surface 17	Internal	DWL
1590	95	64,495	13	6	Surface 32	Internal	DWL
1591	95	64,495	8,542	0	Surface 1	Top	Edge: Surface 1, Top
1592	95	64,495	0	0	Surface 1	Bottom	Edge: Surface 1, Bottom
1593	95	64,495	13	3,024	Surface 3	Top	Edge: Surface 3, Top
1594	95	64,495	8,542	0	Surface 3	Bottom	Edge: Surface 3, Bottom
1595	95	64,495	0	0	Surface 5	Left	Edge: Surface 5, Left
1596	95	64,495	-8,542	0	Surface 5	Right	Edge: Surface 5, Right
1597	95	64,495	-8,542	0	Surface 6	Left	Edge: Surface 6, Left
1598	95	64,495	-13	3,024	Surface 6	Right	Edge: Surface 6, Right
1599	95	64,495	-13	3,024	Surface 17	Left	Edge: Surface 17, Left
1600	95	64,495	-13	20	Surface 17	Right	Edge: Surface 17, Right
1601	95	64,495	13	20	Surface 32	Top	Edge: Surface 32, Top
1602	95	64,495	13	3,024	Surface 32	Bottom	Edge: Surface 32, Bottom
1603	96	65,265	-13	6	Surface 17	Internal	DWL
1604	96	65,265	13	6	Surface 32	Internal	DWL
1605	96	65,265	9,101	0	Surface 1	Top	Edge: Surface 1, Top
1606	96	65,265	0	0	Surface 1	Bottom	Edge: Surface 1, Bottom
1607	96	65,265	13	2,947	Surface 3	Top	Edge: Surface 3, Top
1608	96	65,265	9,101	0	Surface 3	Bottom	Edge: Surface 3, Bottom
1609	96	65,265	0	0	Surface 5	Left	Edge: Surface 5, Left
1610	96	65,265	-9,101	0	Surface 5	Right	Edge: Surface 5, Right
1611	96	65,265	-9,101	0	Surface 6	Left	Edge: Surface 6, Left
1612	96	65,265	-13	2,947	Surface 6	Right	Edge: Surface 6, Right
1613	96	65,265	-13	2,947	Surface 17	Left	Edge: Surface 17, Left
1614	96	65,265	-13	20	Surface 17	Right	Edge: Surface 17, Right
1615	96	65,265	13	20	Surface 32	Top	Edge: Surface 32, Top
1616	96	65,265	13	2,947	Surface 32	Bottom	Edge: Surface 32, Bottom
1617	97	66,035	-13	6	Surface 17	Internal	DWL

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
1618	97	66,035	13	6	Surface 32	Internal	DWL
1619	97	66,035	9,559	0	Surface 1	Top	Edge: Surface 1, Top
1620	97	66,035	0	0	Surface 1	Bottom	Edge: Surface 1, Bottom
1621	97	66,035	13	2,885	Surface 3	Top	Edge: Surface 3, Top
1622	97	66,035	9,559	0	Surface 3	Bottom	Edge: Surface 3, Bottom
1623	97	66,035	0	0	Surface 5	Left	Edge: Surface 5, Left
1624	97	66,035	-9,559	0	Surface 5	Right	Edge: Surface 5, Right
1625	97	66,035	-9,559	0	Surface 6	Left	Edge: Surface 6, Left
1626	97	66,035	-13	2,885	Surface 6	Right	Edge: Surface 6, Right
1627	97	66,035	-13	2,885	Surface 17	Left	Edge: Surface 17, Left
1628	97	66,035	-13	20	Surface 17	Right	Edge: Surface 17, Right
1629	97	66,035	13	20	Surface 32	Top	Edge: Surface 32, Top
1630	97	66,035	13	2,885	Surface 32	Bottom	Edge: Surface 32, Bottom
1631	98	66,805	-13	6	Surface 17	Internal	DWL
1632	98	66,805	13	6	Surface 32	Internal	DWL
1633	98	66,805	9,898	0	Surface 1	Top	Edge: Surface 1, Top
1634	98	66,805	0	0	Surface 1	Bottom	Edge: Surface 1, Bottom
1635	98	66,805	13	2,84	Surface 3	Top	Edge: Surface 3, Top
1636	98	66,805	9,898	0	Surface 3	Bottom	Edge: Surface 3, Bottom
1637	98	66,805	0	0	Surface 5	Left	Edge: Surface 5, Left
1638	98	66,805	-9,898	0	Surface 5	Right	Edge: Surface 5, Right
1639	98	66,805	-9,898	0	Surface 6	Left	Edge: Surface 6, Left
1640	98	66,805	-13	2,84	Surface 6	Right	Edge: Surface 6, Right
1641	98	66,805	-13	2,84	Surface 17	Left	Edge: Surface 17, Left
1642	98	66,805	-13	20	Surface 17	Right	Edge: Surface 17, Right
1643	98	66,805	13	20	Surface 32	Top	Edge: Surface 32, Top
1644	98	66,805	13	2,84	Surface 32	Bottom	Edge: Surface 32, Bottom
1645	99	67,575	-13	6	Surface 17	Internal	DWL
1646	99	67,575	13	6	Surface 32	Internal	DWL
1647	99	67,575	10,113	0	Surface 1	Top	Edge: Surface 1, Top
1648	99	67,575	0	0	Surface 1	Bottom	Edge: Surface 1, Bottom
1649	99	67,575	13	2,812	Surface 3	Top	Edge: Surface 3, Top
1650	99	67,575	10,113	0	Surface 3	Bottom	Edge: Surface 3, Bottom
1651	99	67,575	0	0	Surface 5	Left	Edge: Surface 5, Left
1652	99	67,575	-10,113	0	Surface 5	Right	Edge: Surface 5, Right
1653	99	67,575	-10,113	0	Surface 6	Left	Edge: Surface 6, Left
1654	99	67,575	-13	2,812	Surface 6	Right	Edge: Surface 6, Right
1655	99	67,575	-13	2,812	Surface 17	Left	Edge: Surface 17, Left
1656	99	67,575	-13	20	Surface 17	Right	Edge: Surface 17, Right
1657	99	67,575	13	20	Surface 32	Top	Edge: Surface 32, Top
1658	99	67,575	13	2,812	Surface 32	Bottom	Edge: Surface 32, Bottom
1659	100	68,345	-13	6	Surface 17	Internal	DWL
1660	100	68,345	13	6	Surface 32	Internal	DWL
1661	100	68,345	10,198	0	Surface 1	Top	Edge: Surface 1, Top
1662	100	68,345	0	0	Surface 1	Bottom	Edge: Surface 1, Bottom
1663	100	68,345	13	2,8	Surface 3	Top	Edge: Surface 3, Top
1664	100	68,345	10,198	0	Surface 3	Bottom	Edge: Surface 3, Bottom
1665	100	68,345	0	0	Surface 5	Left	Edge: Surface 5, Left
1666	100	68,345	-10,198	0	Surface 5	Right	Edge: Surface 5, Right

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
1667	100	68,345	-10,198	0	Surface 6	Left	Edge: Surface 6, Left
1668	100	68,345	-13	2,8	Surface 6	Right	Edge: Surface 6, Right
1669	100	68,345	-13	2,8	Surface 17	Left	Edge: Surface 17, Left
1670	100	68,345	-13	20	Surface 17	Right	Edge: Surface 17, Right
1671	100	68,345	13	20	Surface 32	Top	Edge: Surface 32, Top
1672	100	68,345	13	2,8	Surface 32	Bottom	Edge: Surface 32, Bottom
1673	101	69,115	-13	6	Surface 19	Internal	DWL
1674	101	69,115	13	6	Surface 34	Internal	DWL
1675	101	69,115	0	0	Surface 19	Left	Edge: Surface 19, Left
1676	101	69,115	-13	20	Surface 19	Right	Edge: Surface 19, Right
1677	101	69,115	13	20	Surface 34	Top	Edge: Surface 34, Top
1678	101	69,115	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1679	102	69,885	-13	6	Surface 19	Internal	DWL
1680	102	69,885	13	6	Surface 34	Internal	DWL
1681	102	69,885	0	0	Surface 19	Left	Edge: Surface 19, Left
1682	102	69,885	-13	20	Surface 19	Right	Edge: Surface 19, Right
1683	102	69,885	13	20	Surface 34	Top	Edge: Surface 34, Top
1684	102	69,885	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1685	103	70,655	-13	6	Surface 19	Internal	DWL
1686	103	70,655	13	6	Surface 34	Internal	DWL
1687	103	70,655	0	0	Surface 19	Left	Edge: Surface 19, Left
1688	103	70,655	-13	20	Surface 19	Right	Edge: Surface 19, Right
1689	103	70,655	13	20	Surface 34	Top	Edge: Surface 34, Top
1690	103	70,655	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1691	104	71,425	-13	6	Surface 19	Internal	DWL
1692	104	71,425	13	6	Surface 34	Internal	DWL
1693	104	71,425	0	0	Surface 19	Left	Edge: Surface 19, Left
1694	104	71,425	-13	20	Surface 19	Right	Edge: Surface 19, Right
1695	104	71,425	13	20	Surface 34	Top	Edge: Surface 34, Top
1696	104	71,425	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1697	105	72,195	-13	6	Surface 19	Internal	DWL
1698	105	72,195	13	6	Surface 34	Internal	DWL
1699	105	72,195	0	0	Surface 19	Left	Edge: Surface 19, Left
1700	105	72,195	-13	20	Surface 19	Right	Edge: Surface 19, Right
1701	105	72,195	13	20	Surface 34	Top	Edge: Surface 34, Top
1702	105	72,195	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1703	106	72,965	-13	6	Surface 19	Internal	DWL
1704	106	72,965	13	6	Surface 34	Internal	DWL
1705	106	72,965	0	0	Surface 19	Left	Edge: Surface 19, Left
1706	106	72,965	-13	20	Surface 19	Right	Edge: Surface 19, Right
1707	106	72,965	13	20	Surface 34	Top	Edge: Surface 34, Top
1708	106	72,965	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1709	107	73,735	-13	6	Surface 19	Internal	DWL
1710	107	73,735	13	6	Surface 34	Internal	DWL
1711	107	73,735	0	0	Surface 19	Left	Edge: Surface 19, Left
1712	107	73,735	-13	20	Surface 19	Right	Edge: Surface 19, Right
1713	107	73,735	13	20	Surface 34	Top	Edge: Surface 34, Top
1714	107	73,735	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1715	108	74,505	-13	6	Surface 19	Internal	DWL

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
1716	108	74,505	13	6	Surface 34	Internal	DWL
1717	108	74,505	0	0	Surface 19	Left	Edge: Surface 19, Left
1718	108	74,505	-13	20	Surface 19	Right	Edge: Surface 19, Right
1719	108	74,505	13	20	Surface 34	Top	Edge: Surface 34, Top
1720	108	74,505	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1721	109	75,275	-13	6	Surface 19	Internal	DWL
1722	109	75,275	13	6	Surface 34	Internal	DWL
1723	109	75,275	0	0	Surface 19	Left	Edge: Surface 19, Left
1724	109	75,275	-13	20	Surface 19	Right	Edge: Surface 19, Right
1725	109	75,275	13	20	Surface 34	Top	Edge: Surface 34, Top
1726	109	75,275	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1727	110	76,045	-13	6	Surface 19	Internal	DWL
1728	110	76,045	13	6	Surface 34	Internal	DWL
1729	110	76,045	0	0	Surface 19	Left	Edge: Surface 19, Left
1730	110	76,045	-13	20	Surface 19	Right	Edge: Surface 19, Right
1731	110	76,045	13	20	Surface 34	Top	Edge: Surface 34, Top
1732	110	76,045	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1733	111	76,815	-13	6	Surface 19	Internal	DWL
1734	111	76,815	13	6	Surface 34	Internal	DWL
1735	111	76,815	0	0	Surface 19	Left	Edge: Surface 19, Left
1736	111	76,815	-13	20	Surface 19	Right	Edge: Surface 19, Right
1737	111	76,815	13	20	Surface 34	Top	Edge: Surface 34, Top
1738	111	76,815	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1739	112	77,585	-13	6	Surface 19	Internal	DWL
1740	112	77,585	13	6	Surface 34	Internal	DWL
1741	112	77,585	0	0	Surface 19	Left	Edge: Surface 19, Left
1742	112	77,585	-13	20	Surface 19	Right	Edge: Surface 19, Right
1743	112	77,585	13	20	Surface 34	Top	Edge: Surface 34, Top
1744	112	77,585	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1745	113	78,355	-13	6	Surface 19	Internal	DWL
1746	113	78,355	13	6	Surface 34	Internal	DWL
1747	113	78,355	0	0	Surface 19	Left	Edge: Surface 19, Left
1748	113	78,355	-13	20	Surface 19	Right	Edge: Surface 19, Right
1749	113	78,355	13	20	Surface 34	Top	Edge: Surface 34, Top
1750	113	78,355	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1751	114	79,125	-13	6	Surface 19	Internal	DWL
1752	114	79,125	13	6	Surface 34	Internal	DWL
1753	114	79,125	0	0	Surface 19	Left	Edge: Surface 19, Left
1754	114	79,125	-13	20	Surface 19	Right	Edge: Surface 19, Right
1755	114	79,125	13	20	Surface 34	Top	Edge: Surface 34, Top
1756	114	79,125	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1757	115	79,895	-13	6	Surface 19	Internal	DWL
1758	115	79,895	13	6	Surface 34	Internal	DWL
1759	115	79,895	0	0	Surface 19	Left	Edge: Surface 19, Left
1760	115	79,895	-13	20	Surface 19	Right	Edge: Surface 19, Right
1761	115	79,895	13	20	Surface 34	Top	Edge: Surface 34, Top
1762	115	79,895	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1763	116	80,665	-13	6	Surface 19	Internal	DWL
1764	116	80,665	13	6	Surface 34	Internal	DWL

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
1765	116	80,665	0	0	Surface 19	Left	Edge: Surface 19, Left
1766	116	80,665	-13	20	Surface 19	Right	Edge: Surface 19, Right
1767	116	80,665	13	20	Surface 34	Top	Edge: Surface 34, Top
1768	116	80,665	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1769	117	81,435	-13	6	Surface 19	Internal	DWL
1770	117	81,435	13	6	Surface 34	Internal	DWL
1771	117	81,435	0	0	Surface 19	Left	Edge: Surface 19, Left
1772	117	81,435	-13	20	Surface 19	Right	Edge: Surface 19, Right
1773	117	81,435	13	20	Surface 34	Top	Edge: Surface 34, Top
1774	117	81,435	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1775	118	82,205	-13	6	Surface 19	Internal	DWL
1776	118	82,205	13	6	Surface 34	Internal	DWL
1777	118	82,205	0	0	Surface 19	Left	Edge: Surface 19, Left
1778	118	82,205	-13	20	Surface 19	Right	Edge: Surface 19, Right
1779	118	82,205	13	20	Surface 34	Top	Edge: Surface 34, Top
1780	118	82,205	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1781	119	82,975	-13	6	Surface 19	Internal	DWL
1782	119	82,975	13	6	Surface 34	Internal	DWL
1783	119	82,975	0	0	Surface 19	Left	Edge: Surface 19, Left
1784	119	82,975	-13	20	Surface 19	Right	Edge: Surface 19, Right
1785	119	82,975	13	20	Surface 34	Top	Edge: Surface 34, Top
1786	119	82,975	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1787	120	83,745	-13	6	Surface 19	Internal	DWL
1788	120	83,745	13	6	Surface 34	Internal	DWL
1789	120	83,745	0	0	Surface 19	Left	Edge: Surface 19, Left
1790	120	83,745	-13	20	Surface 19	Right	Edge: Surface 19, Right
1791	120	83,745	13	20	Surface 34	Top	Edge: Surface 34, Top
1792	120	83,745	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1793	121	84,515	-13	6	Surface 19	Internal	DWL
1794	121	84,515	13	6	Surface 34	Internal	DWL
1795	121	84,515	0	0	Surface 19	Left	Edge: Surface 19, Left
1796	121	84,515	-13	20	Surface 19	Right	Edge: Surface 19, Right
1797	121	84,515	13	20	Surface 34	Top	Edge: Surface 34, Top
1798	121	84,515	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1799	122	85,285	-13	6	Surface 19	Internal	DWL
1800	122	85,285	13	6	Surface 34	Internal	DWL
1801	122	85,285	0	0	Surface 19	Left	Edge: Surface 19, Left
1802	122	85,285	-13	20	Surface 19	Right	Edge: Surface 19, Right
1803	122	85,285	13	20	Surface 34	Top	Edge: Surface 34, Top
1804	122	85,285	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1805	123	86,055	-13	6	Surface 19	Internal	DWL
1806	123	86,055	13	6	Surface 34	Internal	DWL
1807	123	86,055	0	0	Surface 19	Left	Edge: Surface 19, Left
1808	123	86,055	-13	20	Surface 19	Right	Edge: Surface 19, Right
1809	123	86,055	13	20	Surface 34	Top	Edge: Surface 34, Top
1810	123	86,055	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1811	124	86,825	-13	6	Surface 19	Internal	DWL
1812	124	86,825	13	6	Surface 34	Internal	DWL
1813	124	86,825	0	0	Surface 19	Left	Edge: Surface 19, Left

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
1814	124	86,825	-13	20	Surface 19	Right	Edge: Surface 19, Right
1815	124	86,825	13	20	Surface 34	Top	Edge: Surface 34, Top
1816	124	86,825	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1817	125	87,595	-13	6	Surface 19	Internal	DWL
1818	125	87,595	13	6	Surface 34	Internal	DWL
1819	125	87,595	0	0	Surface 19	Left	Edge: Surface 19, Left
1820	125	87,595	-13	20	Surface 19	Right	Edge: Surface 19, Right
1821	125	87,595	13	20	Surface 34	Top	Edge: Surface 34, Top
1822	125	87,595	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1823	126	88,365	-13	6	Surface 19	Internal	DWL
1824	126	88,365	13	6	Surface 34	Internal	DWL
1825	126	88,365	0	0	Surface 19	Left	Edge: Surface 19, Left
1826	126	88,365	-13	20	Surface 19	Right	Edge: Surface 19, Right
1827	126	88,365	13	20	Surface 34	Top	Edge: Surface 34, Top
1828	126	88,365	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1829	127	89,135	-13	6	Surface 19	Internal	DWL
1830	127	89,135	13	6	Surface 34	Internal	DWL
1831	127	89,135	0	0	Surface 19	Left	Edge: Surface 19, Left
1832	127	89,135	-13	20	Surface 19	Right	Edge: Surface 19, Right
1833	127	89,135	13	20	Surface 34	Top	Edge: Surface 34, Top
1834	127	89,135	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1835	128	89,905	-13	6	Surface 19	Internal	DWL
1836	128	89,905	13	6	Surface 34	Internal	DWL
1837	128	89,905	0	0	Surface 19	Left	Edge: Surface 19, Left
1838	128	89,905	-13	20	Surface 19	Right	Edge: Surface 19, Right
1839	128	89,905	13	20	Surface 34	Top	Edge: Surface 34, Top
1840	128	89,905	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1841	129	90,675	-13	6	Surface 19	Internal	DWL
1842	129	90,675	13	6	Surface 34	Internal	DWL
1843	129	90,675	0	0	Surface 19	Left	Edge: Surface 19, Left
1844	129	90,675	-13	20	Surface 19	Right	Edge: Surface 19, Right
1845	129	90,675	13	20	Surface 34	Top	Edge: Surface 34, Top
1846	129	90,675	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1847	130	91,445	-13	6	Surface 19	Internal	DWL
1848	130	91,445	13	6	Surface 34	Internal	DWL
1849	130	91,445	0	0	Surface 19	Left	Edge: Surface 19, Left
1850	130	91,445	-13	20	Surface 19	Right	Edge: Surface 19, Right
1851	130	91,445	13	20	Surface 34	Top	Edge: Surface 34, Top
1852	130	91,445	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1853	131	92,215	-13	6	Surface 19	Internal	DWL
1854	131	92,215	13	6	Surface 34	Internal	DWL
1855	131	92,215	0	0	Surface 19	Left	Edge: Surface 19, Left
1856	131	92,215	-13	20	Surface 19	Right	Edge: Surface 19, Right
1857	131	92,215	13	20	Surface 34	Top	Edge: Surface 34, Top
1858	131	92,215	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1859	132	92,985	-13	6	Surface 19	Internal	DWL
1860	132	92,985	13	6	Surface 34	Internal	DWL
1861	132	92,985	0	0	Surface 19	Left	Edge: Surface 19, Left
1862	132	92,985	-13	20	Surface 19	Right	Edge: Surface 19, Right

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
1863	132	92,985	13	20	Surface 34	Top	Edge: Surface 34, Top
1864	132	92,985	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1865	133	93,755	-13	6	Surface 19	Internal	DWL
1866	133	93,755	13	6	Surface 34	Internal	DWL
1867	133	93,755	0	0	Surface 19	Left	Edge: Surface 19, Left
1868	133	93,755	-13	20	Surface 19	Right	Edge: Surface 19, Right
1869	133	93,755	13	20	Surface 34	Top	Edge: Surface 34, Top
1870	133	93,755	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1871	134	94,525	-13	6	Surface 19	Internal	DWL
1872	134	94,525	13	6	Surface 34	Internal	DWL
1873	134	94,525	0	0	Surface 19	Left	Edge: Surface 19, Left
1874	134	94,525	-13	20	Surface 19	Right	Edge: Surface 19, Right
1875	134	94,525	13	20	Surface 34	Top	Edge: Surface 34, Top
1876	134	94,525	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1877	135	95,295	-13	6	Surface 19	Internal	DWL
1878	135	95,295	13	6	Surface 34	Internal	DWL
1879	135	95,295	0	0	Surface 19	Left	Edge: Surface 19, Left
1880	135	95,295	-13	20	Surface 19	Right	Edge: Surface 19, Right
1881	135	95,295	13	20	Surface 34	Top	Edge: Surface 34, Top
1882	135	95,295	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1883	136	96,065	-13	6	Surface 19	Internal	DWL
1884	136	96,065	13	6	Surface 34	Internal	DWL
1885	136	96,065	0	0	Surface 19	Left	Edge: Surface 19, Left
1886	136	96,065	-13	20	Surface 19	Right	Edge: Surface 19, Right
1887	136	96,065	13	20	Surface 34	Top	Edge: Surface 34, Top
1888	136	96,065	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1889	137	96,835	-13	6	Surface 19	Internal	DWL
1890	137	96,835	13	6	Surface 34	Internal	DWL
1891	137	96,835	0	0	Surface 19	Left	Edge: Surface 19, Left
1892	137	96,835	-13	20	Surface 19	Right	Edge: Surface 19, Right
1893	137	96,835	13	20	Surface 34	Top	Edge: Surface 34, Top
1894	137	96,835	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1895	138	97,605	-13	6	Surface 19	Internal	DWL
1896	138	97,605	13	6	Surface 34	Internal	DWL
1897	138	97,605	0	0	Surface 19	Left	Edge: Surface 19, Left
1898	138	97,605	-13	20	Surface 19	Right	Edge: Surface 19, Right
1899	138	97,605	13	20	Surface 34	Top	Edge: Surface 34, Top
1900	138	97,605	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1901	139	98,375	-13	6	Surface 19	Internal	DWL
1902	139	98,375	13	6	Surface 34	Internal	DWL
1903	139	98,375	0	0	Surface 19	Left	Edge: Surface 19, Left
1904	139	98,375	-13	20	Surface 19	Right	Edge: Surface 19, Right
1905	139	98,375	13	20	Surface 34	Top	Edge: Surface 34, Top
1906	139	98,375	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1907	140	99,145	-13	6	Surface 19	Internal	DWL
1908	140	99,145	13	6	Surface 34	Internal	DWL
1909	140	99,145	0	0	Surface 19	Left	Edge: Surface 19, Left
1910	140	99,145	-13	20	Surface 19	Right	Edge: Surface 19, Right
1911	140	99,145	13	20	Surface 34	Top	Edge: Surface 34, Top

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
1912	140	99,145	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1913	141	99,915	-13	6	Surface 19	Internal	DWL
1914	141	99,915	13	6	Surface 34	Internal	DWL
1915	141	99,915	0	0	Surface 19	Left	Edge: Surface 19, Left
1916	141	99,915	-13	20	Surface 19	Right	Edge: Surface 19, Right
1917	141	99,915	13	20	Surface 34	Top	Edge: Surface 34, Top
1918	141	99,915	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1919	142	100,685	-13	6	Surface 19	Internal	DWL
1920	142	100,685	13	6	Surface 34	Internal	DWL
1921	142	100,685	0	0	Surface 19	Left	Edge: Surface 19, Left
1922	142	100,685	-13	20	Surface 19	Right	Edge: Surface 19, Right
1923	142	100,685	13	20	Surface 34	Top	Edge: Surface 34, Top
1924	142	100,685	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1925	143	101,455	-13	6	Surface 19	Internal	DWL
1926	143	101,455	13	6	Surface 34	Internal	DWL
1927	143	101,455	0	0	Surface 19	Left	Edge: Surface 19, Left
1928	143	101,455	-13	20	Surface 19	Right	Edge: Surface 19, Right
1929	143	101,455	13	20	Surface 34	Top	Edge: Surface 34, Top
1930	143	101,455	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1931	144	102,225	-13	6	Surface 19	Internal	DWL
1932	144	102,225	13	6	Surface 34	Internal	DWL
1933	144	102,225	0	0	Surface 19	Left	Edge: Surface 19, Left
1934	144	102,225	-13	20	Surface 19	Right	Edge: Surface 19, Right
1935	144	102,225	13	20	Surface 34	Top	Edge: Surface 34, Top
1936	144	102,225	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1937	145	102,995	-13	6	Surface 19	Internal	DWL
1938	145	102,995	13	6	Surface 34	Internal	DWL
1939	145	102,995	0	0	Surface 19	Left	Edge: Surface 19, Left
1940	145	102,995	-13	20	Surface 19	Right	Edge: Surface 19, Right
1941	145	102,995	13	20	Surface 34	Top	Edge: Surface 34, Top
1942	145	102,995	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1943	146	103,765	-13	6	Surface 19	Internal	DWL
1944	146	103,765	13	6	Surface 34	Internal	DWL
1945	146	103,765	0	0	Surface 19	Left	Edge: Surface 19, Left
1946	146	103,765	-13	20	Surface 19	Right	Edge: Surface 19, Right
1947	146	103,765	13	20	Surface 34	Top	Edge: Surface 34, Top
1948	146	103,765	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1949	147	104,535	-12,999	6	Surface 19	Internal	DWL
1950	147	104,535	12,999	6	Surface 34	Internal	DWL
1951	147	104,535	0	0	Surface 19	Left	Edge: Surface 19, Left
1952	147	104,535	-13	20	Surface 19	Right	Edge: Surface 19, Right
1953	147	104,535	13	20	Surface 34	Top	Edge: Surface 34, Top
1954	147	104,535	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1955	148	105,305	-12,995	6	Surface 19	Internal	DWL
1956	148	105,305	12,995	6	Surface 34	Internal	DWL
1957	148	105,305	0	0	Surface 19	Left	Edge: Surface 19, Left
1958	148	105,305	-13	20	Surface 19	Right	Edge: Surface 19, Right
1959	148	105,305	13	20	Surface 34	Top	Edge: Surface 34, Top
1960	148	105,305	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
1961	149	106,075	-12,989	6	Surface 19	Internal	DWL
1962	149	106,075	12,989	6	Surface 34	Internal	DWL
1963	149	106,075	0	0	Surface 19	Left	Edge: Surface 19, Left
1964	149	106,075	-13	20	Surface 19	Right	Edge: Surface 19, Right
1965	149	106,075	13	20	Surface 34	Top	Edge: Surface 34, Top
1966	149	106,075	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1967	150	106,845	-12,979	6	Surface 19	Internal	DWL
1968	150	106,845	12,979	6	Surface 34	Internal	DWL
1969	150	106,845	0	0	Surface 19	Left	Edge: Surface 19, Left
1970	150	106,845	-13	20	Surface 19	Right	Edge: Surface 19, Right
1971	150	106,845	13	20	Surface 34	Top	Edge: Surface 34, Top
1972	150	106,845	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1973	151	107,615	-12,966	6	Surface 19	Internal	DWL
1974	151	107,615	12,966	6	Surface 34	Internal	DWL
1975	151	107,615	0	0	Surface 19	Left	Edge: Surface 19, Left
1976	151	107,615	-13	20	Surface 19	Right	Edge: Surface 19, Right
1977	151	107,615	13	20	Surface 34	Top	Edge: Surface 34, Top
1978	151	107,615	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1979	152	108,385	-12,949	6	Surface 19	Internal	DWL
1980	152	108,385	12,949	6	Surface 34	Internal	DWL
1981	152	108,385	0	0	Surface 19	Left	Edge: Surface 19, Left
1982	152	108,385	-13	20	Surface 19	Right	Edge: Surface 19, Right
1983	152	108,385	13	20	Surface 34	Top	Edge: Surface 34, Top
1984	152	108,385	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1985	153	109,155	-12,928	6	Surface 19	Internal	DWL
1986	153	109,155	12,928	6	Surface 34	Internal	DWL
1987	153	109,155	0	0	Surface 19	Left	Edge: Surface 19, Left
1988	153	109,155	-13	20	Surface 19	Right	Edge: Surface 19, Right
1989	153	109,155	13	20	Surface 34	Top	Edge: Surface 34, Top
1990	153	109,155	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1991	154	109,925	-12,902	6	Surface 19	Internal	DWL
1992	154	109,925	12,902	6	Surface 34	Internal	DWL
1993	154	109,925	0	0	Surface 19	Left	Edge: Surface 19, Left
1994	154	109,925	-13	20	Surface 19	Right	Edge: Surface 19, Right
1995	154	109,925	13	20	Surface 34	Top	Edge: Surface 34, Top
1996	154	109,925	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
1997	155	110,695	-12,873	6	Surface 19	Internal	DWL
1998	155	110,695	12,873	6	Surface 34	Internal	DWL
1999	155	110,695	0	0	Surface 19	Left	Edge: Surface 19, Left
2000	155	110,695	-13	20	Surface 19	Right	Edge: Surface 19, Right
2001	155	110,695	13	20	Surface 34	Top	Edge: Surface 34, Top
2002	155	110,695	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2003	156	111,465	-12,839	6	Surface 19	Internal	DWL
2004	156	111,465	12,839	6	Surface 34	Internal	DWL
2005	156	111,465	0	0	Surface 19	Left	Edge: Surface 19, Left
2006	156	111,465	-13	20	Surface 19	Right	Edge: Surface 19, Right
2007	156	111,465	13	20	Surface 34	Top	Edge: Surface 34, Top
2008	156	111,465	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2009	157	112,235	-12,8	6	Surface 19	Internal	DWL

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
2010	157	112,235	12,8	6	Surface 34	Internal	DWL
2011	157	112,235	0	0	Surface 19	Left	Edge: Surface 19, Left
2012	157	112,235	-13	20	Surface 19	Right	Edge: Surface 19, Right
2013	157	112,235	13	20	Surface 34	Top	Edge: Surface 34, Top
2014	157	112,235	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2015	158	113,005	-12,757	6	Surface 19	Internal	DWL
2016	158	113,005	12,757	6	Surface 34	Internal	DWL
2017	158	113,005	0	0	Surface 19	Left	Edge: Surface 19, Left
2018	158	113,005	-13	20	Surface 19	Right	Edge: Surface 19, Right
2019	158	113,005	13	20	Surface 34	Top	Edge: Surface 34, Top
2020	158	113,005	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2021	159	113,775	-12,709	6	Surface 19	Internal	DWL
2022	159	113,775	12,709	6	Surface 34	Internal	DWL
2023	159	113,775	0	0	Surface 19	Left	Edge: Surface 19, Left
2024	159	113,775	-13	20	Surface 19	Right	Edge: Surface 19, Right
2025	159	113,775	13	20	Surface 34	Top	Edge: Surface 34, Top
2026	159	113,775	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2027	160	114,545	-12,655	6	Surface 19	Internal	DWL
2028	160	114,545	12,655	6	Surface 34	Internal	DWL
2029	160	114,545	0	0	Surface 19	Left	Edge: Surface 19, Left
2030	160	114,545	-13	20	Surface 19	Right	Edge: Surface 19, Right
2031	160	114,545	13	20	Surface 34	Top	Edge: Surface 34, Top
2032	160	114,545	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2033	161	115,315	-12,597	6	Surface 19	Internal	DWL
2034	161	115,315	12,597	6	Surface 34	Internal	DWL
2035	161	115,315	0	0	Surface 19	Left	Edge: Surface 19, Left
2036	161	115,315	-13	20	Surface 19	Right	Edge: Surface 19, Right
2037	161	115,315	13	20	Surface 34	Top	Edge: Surface 34, Top
2038	161	115,315	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2039	162	116,085	-12,533	6	Surface 19	Internal	DWL
2040	162	116,085	12,533	6	Surface 34	Internal	DWL
2041	162	116,085	0	0	Surface 19	Left	Edge: Surface 19, Left
2042	162	116,085	-13	20	Surface 19	Right	Edge: Surface 19, Right
2043	162	116,085	13	20	Surface 34	Top	Edge: Surface 34, Top
2044	162	116,085	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2045	163	116,855	-12,464	6	Surface 19	Internal	DWL
2046	163	116,855	12,464	6	Surface 34	Internal	DWL
2047	163	116,855	0	0	Surface 19	Left	Edge: Surface 19, Left
2048	163	116,855	-13	20	Surface 19	Right	Edge: Surface 19, Right
2049	163	116,855	13	20	Surface 34	Top	Edge: Surface 34, Top
2050	163	116,855	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2051	164	117,625	-12,391	6	Surface 19	Internal	DWL
2052	164	117,625	12,391	6	Surface 34	Internal	DWL
2053	164	117,625	0	0	Surface 19	Left	Edge: Surface 19, Left
2054	164	117,625	-13	20	Surface 19	Right	Edge: Surface 19, Right
2055	164	117,625	13	20	Surface 34	Top	Edge: Surface 34, Top
2056	164	117,625	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2057	165	118,395	-12,312	6	Surface 19	Internal	DWL
2058	165	118,395	12,312	6	Surface 34	Internal	DWL

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
2059	165	118,395	0	0	Surface 19	Left	Edge: Surface 19, Left
2060	165	118,395	-13	20	Surface 19	Right	Edge: Surface 19, Right
2061	165	118,395	13	20	Surface 34	Top	Edge: Surface 34, Top
2062	165	118,395	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2063	166	119,165	-12,228	6	Surface 19	Internal	DWL
2064	166	119,165	12,228	6	Surface 34	Internal	DWL
2065	166	119,165	0	0	Surface 19	Left	Edge: Surface 19, Left
2066	166	119,165	-13	20	Surface 19	Right	Edge: Surface 19, Right
2067	166	119,165	13	20	Surface 34	Top	Edge: Surface 34, Top
2068	166	119,165	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2069	167	119,935	-12,139	6	Surface 19	Internal	DWL
2070	167	119,935	12,139	6	Surface 34	Internal	DWL
2071	167	119,935	0	0	Surface 19	Left	Edge: Surface 19, Left
2072	167	119,935	-13	20	Surface 19	Right	Edge: Surface 19, Right
2073	167	119,935	13	20	Surface 34	Top	Edge: Surface 34, Top
2074	167	119,935	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2075	168	120,705	-12,045	6	Surface 19	Internal	DWL
2076	168	120,705	12,045	6	Surface 34	Internal	DWL
2077	168	120,705	0	0	Surface 19	Left	Edge: Surface 19, Left
2078	168	120,705	-13	20	Surface 19	Right	Edge: Surface 19, Right
2079	168	120,705	13	20	Surface 34	Top	Edge: Surface 34, Top
2080	168	120,705	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2081	169	121,475	-11,945	6	Surface 19	Internal	DWL
2082	169	121,475	11,945	6	Surface 34	Internal	DWL
2083	169	121,475	0	0	Surface 19	Left	Edge: Surface 19, Left
2084	169	121,475	-13	20	Surface 19	Right	Edge: Surface 19, Right
2085	169	121,475	13	20	Surface 34	Top	Edge: Surface 34, Top
2086	169	121,475	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2087	170	122,245	-11,84	6	Surface 19	Internal	DWL
2088	170	122,245	11,84	6	Surface 34	Internal	DWL
2089	170	122,245	0	0	Surface 19	Left	Edge: Surface 19, Left
2090	170	122,245	-13	20	Surface 19	Right	Edge: Surface 19, Right
2091	170	122,245	13	20	Surface 34	Top	Edge: Surface 34, Top
2092	170	122,245	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2093	171	123,015	-11,729	6	Surface 19	Internal	DWL
2094	171	123,015	11,729	6	Surface 34	Internal	DWL
2095	171	123,015	0	0	Surface 19	Left	Edge: Surface 19, Left
2096	171	123,015	-13	20	Surface 19	Right	Edge: Surface 19, Right
2097	171	123,015	13	20	Surface 34	Top	Edge: Surface 34, Top
2098	171	123,015	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2099	172	123,785	-11,612	6	Surface 19	Internal	DWL
2100	172	123,785	11,612	6	Surface 34	Internal	DWL
2101	172	123,785	0	0	Surface 19	Left	Edge: Surface 19, Left
2102	172	123,785	-13	20	Surface 19	Right	Edge: Surface 19, Right
2103	172	123,785	13	20	Surface 34	Top	Edge: Surface 34, Top
2104	172	123,785	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2105	173	124,555	-11,49	6	Surface 19	Internal	DWL
2106	173	124,555	11,49	6	Surface 34	Internal	DWL
2107	173	124,555	0	0	Surface 19	Left	Edge: Surface 19, Left

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
2108	173	124,555	-13	20	Surface 19	Right	Edge: Surface 19, Right
2109	173	124,555	13	20	Surface 34	Top	Edge: Surface 34, Top
2110	173	124,555	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2111	174	125,325	-11,363	6	Surface 19	Internal	DWL
2112	174	125,325	11,363	6	Surface 34	Internal	DWL
2113	174	125,325	0	0	Surface 19	Left	Edge: Surface 19, Left
2114	174	125,325	-13	20	Surface 19	Right	Edge: Surface 19, Right
2115	174	125,325	13	20	Surface 34	Top	Edge: Surface 34, Top
2116	174	125,325	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2117	175	126,095	-11,23	6	Surface 19	Internal	DWL
2118	175	126,095	11,23	6	Surface 34	Internal	DWL
2119	175	126,095	0	0	Surface 19	Left	Edge: Surface 19, Left
2120	175	126,095	-13	20	Surface 19	Right	Edge: Surface 19, Right
2121	175	126,095	13	20	Surface 34	Top	Edge: Surface 34, Top
2122	175	126,095	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2123	176	126,865	-11,092	6	Surface 19	Internal	DWL
2124	176	126,865	11,092	6	Surface 34	Internal	DWL
2125	176	126,865	0	0	Surface 19	Left	Edge: Surface 19, Left
2126	176	126,865	-13	20	Surface 19	Right	Edge: Surface 19, Right
2127	176	126,865	13	20	Surface 34	Top	Edge: Surface 34, Top
2128	176	126,865	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2129	177	127,635	-10,949	6	Surface 19	Internal	DWL
2130	177	127,635	10,949	6	Surface 34	Internal	DWL
2131	177	127,635	0	0	Surface 19	Left	Edge: Surface 19, Left
2132	177	127,635	-13	20	Surface 19	Right	Edge: Surface 19, Right
2133	177	127,635	13	20	Surface 34	Top	Edge: Surface 34, Top
2134	177	127,635	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2135	178	128,405	-10,801	6	Surface 19	Internal	DWL
2136	178	128,405	10,801	6	Surface 34	Internal	DWL
2137	178	128,405	0	0	Surface 19	Left	Edge: Surface 19, Left
2138	178	128,405	-13	20	Surface 19	Right	Edge: Surface 19, Right
2139	178	128,405	13	20	Surface 34	Top	Edge: Surface 34, Top
2140	178	128,405	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2141	179	129,175	-10,649	6	Surface 19	Internal	DWL
2142	179	129,175	10,649	6	Surface 34	Internal	DWL
2143	179	129,175	0	0	Surface 19	Left	Edge: Surface 19, Left
2144	179	129,175	-13	20	Surface 19	Right	Edge: Surface 19, Right
2145	179	129,175	13	20	Surface 34	Top	Edge: Surface 34, Top
2146	179	129,175	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2147	180	129,945	-10,493	6	Surface 19	Internal	DWL
2148	180	129,945	10,493	6	Surface 34	Internal	DWL
2149	180	129,945	0	0	Surface 19	Left	Edge: Surface 19, Left
2150	180	129,945	-13	20	Surface 19	Right	Edge: Surface 19, Right
2151	180	129,945	13	20	Surface 34	Top	Edge: Surface 34, Top
2152	180	129,945	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2153	181	130,715	-10,332	6	Surface 19	Internal	DWL
2154	181	130,715	10,332	6	Surface 34	Internal	DWL
2155	181	130,715	0	0	Surface 19	Left	Edge: Surface 19, Left
2156	181	130,715	-13	20	Surface 19	Right	Edge: Surface 19, Right

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
2157	181	130,715	13	20	Surface 34	Top	Edge: Surface 34, Top
2158	181	130,715	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2159	182	131,485	-10,168	6	Surface 19	Internal	DWL
2160	182	131,485	10,168	6	Surface 34	Internal	DWL
2161	182	131,485	0	0	Surface 19	Left	Edge: Surface 19, Left
2162	182	131,485	-13	20	Surface 19	Right	Edge: Surface 19, Right
2163	182	131,485	13	20	Surface 34	Top	Edge: Surface 34, Top
2164	182	131,485	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2165	183	132,255	-9,999	6	Surface 19	Internal	DWL
2166	183	132,255	9,999	6	Surface 34	Internal	DWL
2167	183	132,255	0	0	Surface 19	Left	Edge: Surface 19, Left
2168	183	132,255	-13	20	Surface 19	Right	Edge: Surface 19, Right
2169	183	132,255	13	20	Surface 34	Top	Edge: Surface 34, Top
2170	183	132,255	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2171	184	133,025	-9,827	6	Surface 19	Internal	DWL
2172	184	133,025	9,827	6	Surface 34	Internal	DWL
2173	184	133,025	0	0	Surface 19	Left	Edge: Surface 19, Left
2174	184	133,025	-13	20	Surface 19	Right	Edge: Surface 19, Right
2175	184	133,025	13	20	Surface 34	Top	Edge: Surface 34, Top
2176	184	133,025	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2177	185	133,795	-9,651	6	Surface 19	Internal	DWL
2178	185	133,795	9,651	6	Surface 34	Internal	DWL
2179	185	133,795	0	0	Surface 19	Left	Edge: Surface 19, Left
2180	185	133,795	-13	20	Surface 19	Right	Edge: Surface 19, Right
2181	185	133,795	13	20	Surface 34	Top	Edge: Surface 34, Top
2182	185	133,795	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2183	186	134,565	-9,472	6	Surface 19	Internal	DWL
2184	186	134,565	9,472	6	Surface 34	Internal	DWL
2185	186	134,565	0	0	Surface 19	Left	Edge: Surface 19, Left
2186	186	134,565	-13	20	Surface 19	Right	Edge: Surface 19, Right
2187	186	134,565	13	20	Surface 34	Top	Edge: Surface 34, Top
2188	186	134,565	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2189	187	135,335	-9,291	6	Surface 19	Internal	DWL
2190	187	135,335	9,291	6	Surface 34	Internal	DWL
2191	187	135,335	0	0	Surface 19	Left	Edge: Surface 19, Left
2192	187	135,335	-13	20	Surface 19	Right	Edge: Surface 19, Right
2193	187	135,335	13	20	Surface 34	Top	Edge: Surface 34, Top
2194	187	135,335	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2195	188	136,105	-9,108	6	Surface 19	Internal	DWL
2196	188	136,105	9,108	6	Surface 34	Internal	DWL
2197	188	136,105	0	0	Surface 19	Left	Edge: Surface 19, Left
2198	188	136,105	-13	20	Surface 19	Right	Edge: Surface 19, Right
2199	188	136,105	13	20	Surface 34	Top	Edge: Surface 34, Top
2200	188	136,105	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2201	189	136,875	-8,923	6	Surface 19	Internal	DWL
2202	189	136,875	8,923	6	Surface 34	Internal	DWL
2203	189	136,875	0	0	Surface 19	Left	Edge: Surface 19, Left
2204	189	136,875	-13	20	Surface 19	Right	Edge: Surface 19, Right
2205	189	136,875	13	20	Surface 34	Top	Edge: Surface 34, Top

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
2206	189	136,875	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2207	190	137,645	-8,738	6	Surface 19	Internal	DWL
2208	190	137,645	8,738	6	Surface 34	Internal	DWL
2209	190	137,645	0	0	Surface 19	Left	Edge: Surface 19, Left
2210	190	137,645	-13	20	Surface 19	Right	Edge: Surface 19, Right
2211	190	137,645	13	20	Surface 34	Top	Edge: Surface 34, Top
2212	190	137,645	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2213	191	138,415	-8,553	6	Surface 19	Internal	DWL
2214	191	138,415	8,553	6	Surface 34	Internal	DWL
2215	191	138,415	0	0	Surface 19	Left	Edge: Surface 19, Left
2216	191	138,415	-13	20	Surface 19	Right	Edge: Surface 19, Right
2217	191	138,415	13	20	Surface 34	Top	Edge: Surface 34, Top
2218	191	138,415	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2219	192	139,185	-8,367	6	Surface 19	Internal	DWL
2220	192	139,185	8,367	6	Surface 34	Internal	DWL
2221	192	139,185	0	0	Surface 19	Left	Edge: Surface 19, Left
2222	192	139,185	-13	20	Surface 19	Right	Edge: Surface 19, Right
2223	192	139,185	13	20	Surface 34	Top	Edge: Surface 34, Top
2224	192	139,185	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2225	193	139,955	-8,183	6	Surface 19	Internal	DWL
2226	193	139,955	8,183	6	Surface 34	Internal	DWL
2227	193	139,955	0	0	Surface 19	Left	Edge: Surface 19, Left
2228	193	139,955	-13	20	Surface 19	Right	Edge: Surface 19, Right
2229	193	139,955	13	20	Surface 34	Top	Edge: Surface 34, Top
2230	193	139,955	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2231	194	140,725	-7,999	6	Surface 19	Internal	DWL
2232	194	140,725	7,999	6	Surface 34	Internal	DWL
2233	194	140,725	0	0	Surface 19	Left	Edge: Surface 19, Left
2234	194	140,725	-13	20	Surface 19	Right	Edge: Surface 19, Right
2235	194	140,725	13	20	Surface 34	Top	Edge: Surface 34, Top
2236	194	140,725	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2237	195	141,495	-7,816	6	Surface 19	Internal	DWL
2238	195	141,495	7,816	6	Surface 34	Internal	DWL
2239	195	141,495	0	0	Surface 19	Left	Edge: Surface 19, Left
2240	195	141,495	-13	20	Surface 19	Right	Edge: Surface 19, Right
2241	195	141,495	13	20	Surface 34	Top	Edge: Surface 34, Top
2242	195	141,495	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2243	196	142,265	-7,634	6	Surface 19	Internal	DWL
2244	196	142,265	7,634	6	Surface 34	Internal	DWL
2245	196	142,265	0	0	Surface 19	Left	Edge: Surface 19, Left
2246	196	142,265	-13	20	Surface 19	Right	Edge: Surface 19, Right
2247	196	142,265	13	20	Surface 34	Top	Edge: Surface 34, Top
2248	196	142,265	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2249	197	143,035	-7,453	6	Surface 19	Internal	DWL
2250	197	143,035	7,453	6	Surface 34	Internal	DWL
2251	197	143,035	0	0	Surface 19	Left	Edge: Surface 19, Left
2252	197	143,035	-13	20	Surface 19	Right	Edge: Surface 19, Right
2253	197	143,035	13	20	Surface 34	Top	Edge: Surface 34, Top
2254	197	143,035	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
2255	198	143,805	-7,273	6	Surface 19	Internal	DWL
2256	198	143,805	7,273	6	Surface 34	Internal	DWL
2257	198	143,805	0	0	Surface 19	Left	Edge: Surface 19, Left
2258	198	143,805	-13	20	Surface 19	Right	Edge: Surface 19, Right
2259	198	143,805	13	20	Surface 34	Top	Edge: Surface 34, Top
2260	198	143,805	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2261	199	144,575	-7,094	6	Surface 19	Internal	DWL
2262	199	144,575	7,094	6	Surface 34	Internal	DWL
2263	199	144,575	0	0	Surface 19	Left	Edge: Surface 19, Left
2264	199	144,575	-13	20	Surface 19	Right	Edge: Surface 19, Right
2265	199	144,575	13	20	Surface 34	Top	Edge: Surface 34, Top
2266	199	144,575	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2267	200	145,345	-6,915	6	Surface 19	Internal	DWL
2268	200	145,345	6,915	6	Surface 34	Internal	DWL
2269	200	145,345	0	0	Surface 19	Left	Edge: Surface 19, Left
2270	200	145,345	-13	20	Surface 19	Right	Edge: Surface 19, Right
2271	200	145,345	13	20	Surface 34	Top	Edge: Surface 34, Top
2272	200	145,345	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2273	201	146,115	-6,738	6	Surface 19	Internal	DWL
2274	201	146,115	6,738	6	Surface 34	Internal	DWL
2275	201	146,115	0	0	Surface 19	Left	Edge: Surface 19, Left
2276	201	146,115	-13	20	Surface 19	Right	Edge: Surface 19, Right
2277	201	146,115	13	20	Surface 34	Top	Edge: Surface 34, Top
2278	201	146,115	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2279	202	146,885	-6,561	6	Surface 19	Internal	DWL
2280	202	146,885	6,561	6	Surface 34	Internal	DWL
2281	202	146,885	0	0	Surface 19	Left	Edge: Surface 19, Left
2282	202	146,885	-13	20	Surface 19	Right	Edge: Surface 19, Right
2283	202	146,885	13	20	Surface 34	Top	Edge: Surface 34, Top
2284	202	146,885	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2285	203	147,655	-6,385	6	Surface 19	Internal	DWL
2286	203	147,655	6,385	6	Surface 34	Internal	DWL
2287	203	147,655	0	0	Surface 19	Left	Edge: Surface 19, Left
2288	203	147,655	-13	20	Surface 19	Right	Edge: Surface 19, Right
2289	203	147,655	13	20	Surface 34	Top	Edge: Surface 34, Top
2290	203	147,655	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2291	204	148,425	-6,209	6	Surface 19	Internal	DWL
2292	204	148,425	6,209	6	Surface 34	Internal	DWL
2293	204	148,425	0	0	Surface 19	Left	Edge: Surface 19, Left
2294	204	148,425	-13	20	Surface 19	Right	Edge: Surface 19, Right
2295	204	148,425	13	20	Surface 34	Top	Edge: Surface 34, Top
2296	204	148,425	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2297	205	149,195	-6,034	6	Surface 19	Internal	DWL
2298	205	149,195	6,034	6	Surface 34	Internal	DWL
2299	205	149,195	0	0	Surface 19	Left	Edge: Surface 19, Left
2300	205	149,195	-13	20	Surface 19	Right	Edge: Surface 19, Right
2301	205	149,195	13	20	Surface 34	Top	Edge: Surface 34, Top
2302	205	149,195	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2303	206	149,965	-5,86	6	Surface 19	Internal	DWL

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
2304	206	149,965	5,86	6	Surface 34	Internal	DWL
2305	206	149,965	0	0	Surface 19	Left	Edge: Surface 19, Left
2306	206	149,965	-13	20	Surface 19	Right	Edge: Surface 19, Right
2307	206	149,965	13	20	Surface 34	Top	Edge: Surface 34, Top
2308	206	149,965	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2309	207	150,735	-5,686	6	Surface 19	Internal	DWL
2310	207	150,735	5,686	6	Surface 34	Internal	DWL
2311	207	150,735	0	0	Surface 19	Left	Edge: Surface 19, Left
2312	207	150,735	-13	20	Surface 19	Right	Edge: Surface 19, Right
2313	207	150,735	13	20	Surface 34	Top	Edge: Surface 34, Top
2314	207	150,735	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2315	208	151,505	-5,513	6	Surface 19	Internal	DWL
2316	208	151,505	5,513	6	Surface 34	Internal	DWL
2317	208	151,505	0	0	Surface 19	Left	Edge: Surface 19, Left
2318	208	151,505	-13	20	Surface 19	Right	Edge: Surface 19, Right
2319	208	151,505	13	20	Surface 34	Top	Edge: Surface 34, Top
2320	208	151,505	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2321	209	152,275	-5,34	6	Surface 19	Internal	DWL
2322	209	152,275	5,34	6	Surface 34	Internal	DWL
2323	209	152,275	0	0	Surface 19	Left	Edge: Surface 19, Left
2324	209	152,275	-13	20	Surface 19	Right	Edge: Surface 19, Right
2325	209	152,275	13	20	Surface 34	Top	Edge: Surface 34, Top
2326	209	152,275	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2327	210	153,045	-5,167	6	Surface 19	Internal	DWL
2328	210	153,045	5,167	6	Surface 34	Internal	DWL
2329	210	153,045	0	0	Surface 19	Left	Edge: Surface 19, Left
2330	210	153,045	-13	20	Surface 19	Right	Edge: Surface 19, Right
2331	210	153,045	13	20	Surface 34	Top	Edge: Surface 34, Top
2332	210	153,045	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2333	211	153,815	-4,994	6	Surface 19	Internal	DWL
2334	211	153,815	4,994	6	Surface 34	Internal	DWL
2335	211	153,815	0	0	Surface 19	Left	Edge: Surface 19, Left
2336	211	153,815	-13	20	Surface 19	Right	Edge: Surface 19, Right
2337	211	153,815	13	20	Surface 34	Top	Edge: Surface 34, Top
2338	211	153,815	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2339	212	154,585	-4,822	6	Surface 19	Internal	DWL
2340	212	154,585	4,822	6	Surface 34	Internal	DWL
2341	212	154,585	0	0	Surface 19	Left	Edge: Surface 19, Left
2342	212	154,585	-13	20	Surface 19	Right	Edge: Surface 19, Right
2343	212	154,585	13	20	Surface 34	Top	Edge: Surface 34, Top
2344	212	154,585	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2345	213	155,355	-4,651	6	Surface 19	Internal	DWL
2346	213	155,355	4,651	6	Surface 34	Internal	DWL
2347	213	155,355	0	0	Surface 19	Left	Edge: Surface 19, Left
2348	213	155,355	-13	20	Surface 19	Right	Edge: Surface 19, Right
2349	213	155,355	13	20	Surface 34	Top	Edge: Surface 34, Top
2350	213	155,355	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2351	214	156,125	-4,479	6	Surface 19	Internal	DWL
2352	214	156,125	4,479	6	Surface 34	Internal	DWL

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
2353	214	156,125	0	0	Surface 19	Left	Edge: Surface 19, Left
2354	214	156,125	-13	20	Surface 19	Right	Edge: Surface 19, Right
2355	214	156,125	13	20	Surface 34	Top	Edge: Surface 34, Top
2356	214	156,125	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2357	215	156,895	-4,308	6	Surface 19	Internal	DWL
2358	215	156,895	4,308	6	Surface 34	Internal	DWL
2359	215	156,895	0	0	Surface 19	Left	Edge: Surface 19, Left
2360	215	156,895	-13	20	Surface 19	Right	Edge: Surface 19, Right
2361	215	156,895	13	20	Surface 34	Top	Edge: Surface 34, Top
2362	215	156,895	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2363	216	157,665	-4,137	6	Surface 19	Internal	DWL
2364	216	157,665	4,137	6	Surface 34	Internal	DWL
2365	216	157,665	0	0	Surface 19	Left	Edge: Surface 19, Left
2366	216	157,665	-13	20	Surface 19	Right	Edge: Surface 19, Right
2367	216	157,665	13	20	Surface 34	Top	Edge: Surface 34, Top
2368	216	157,665	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2369	217	158,435	-3,967	6	Surface 19	Internal	DWL
2370	217	158,435	3,967	6	Surface 34	Internal	DWL
2371	217	158,435	0	0	Surface 19	Left	Edge: Surface 19, Left
2372	217	158,435	-13	20	Surface 19	Right	Edge: Surface 19, Right
2373	217	158,435	13	20	Surface 34	Top	Edge: Surface 34, Top
2374	217	158,435	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2375	218	159,205	-3,797	6	Surface 19	Internal	DWL
2376	218	159,205	3,797	6	Surface 34	Internal	DWL
2377	218	159,205	0	0	Surface 19	Left	Edge: Surface 19, Left
2378	218	159,205	-13	20	Surface 19	Right	Edge: Surface 19, Right
2379	218	159,205	13	20	Surface 34	Top	Edge: Surface 34, Top
2380	218	159,205	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2381	219	159,975	-3,627	6	Surface 19	Internal	DWL
2382	219	159,975	3,627	6	Surface 34	Internal	DWL
2383	219	159,975	0	0	Surface 19	Left	Edge: Surface 19, Left
2384	219	159,975	-13	20	Surface 19	Right	Edge: Surface 19, Right
2385	219	159,975	13	20	Surface 34	Top	Edge: Surface 34, Top
2386	219	159,975	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2387	220	160,745	-3,458	6	Surface 19	Internal	DWL
2388	220	160,745	3,458	6	Surface 34	Internal	DWL
2389	220	160,745	0	0	Surface 19	Left	Edge: Surface 19, Left
2390	220	160,745	-13	20	Surface 19	Right	Edge: Surface 19, Right
2391	220	160,745	13	20	Surface 34	Top	Edge: Surface 34, Top
2392	220	160,745	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2393	221	161,515	-3,289	6	Surface 19	Internal	DWL
2394	221	161,515	3,289	6	Surface 34	Internal	DWL
2395	221	161,515	0	0	Surface 19	Left	Edge: Surface 19, Left
2396	221	161,515	-12,999	20	Surface 19	Right	Edge: Surface 19, Right
2397	221	161,515	12,999	20	Surface 34	Top	Edge: Surface 34, Top
2398	221	161,515	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2399	222	162,285	-3,12	6	Surface 19	Internal	DWL
2400	222	162,285	3,12	6	Surface 34	Internal	DWL
2401	222	162,285	0	0	Surface 19	Left	Edge: Surface 19, Left

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
2402	222	162,285	-12,994	20	Surface 19	Right	Edge: Surface 19, Right
2403	222	162,285	12,994	20	Surface 34	Top	Edge: Surface 34, Top
2404	222	162,285	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2405	223	163,055	-2,952	6	Surface 19	Internal	DWL
2406	223	163,055	2,952	6	Surface 34	Internal	DWL
2407	223	163,055	0	0	Surface 19	Left	Edge: Surface 19, Left
2408	223	163,055	-12,982	20	Surface 19	Right	Edge: Surface 19, Right
2409	223	163,055	12,982	20	Surface 34	Top	Edge: Surface 34, Top
2410	223	163,055	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2411	224	163,825	-2,784	6	Surface 19	Internal	DWL
2412	224	163,825	2,784	6	Surface 34	Internal	DWL
2413	224	163,825	0	0	Surface 19	Left	Edge: Surface 19, Left
2414	224	163,825	-12,96	20	Surface 19	Right	Edge: Surface 19, Right
2415	224	163,825	12,96	20	Surface 34	Top	Edge: Surface 34, Top
2416	224	163,825	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2417	225	164,595	-2,616	6	Surface 19	Internal	DWL
2418	225	164,595	2,616	6	Surface 34	Internal	DWL
2419	225	164,595	0	0	Surface 19	Left	Edge: Surface 19, Left
2420	225	164,595	-12,924	20	Surface 19	Right	Edge: Surface 19, Right
2421	225	164,595	12,924	20	Surface 34	Top	Edge: Surface 34, Top
2422	225	164,595	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2423	226	165,365	-2,449	6	Surface 19	Internal	DWL
2424	226	165,365	2,449	6	Surface 34	Internal	DWL
2425	226	165,365	0	0	Surface 19	Left	Edge: Surface 19, Left
2426	226	165,365	-12,869	20	Surface 19	Right	Edge: Surface 19, Right
2427	226	165,365	12,869	20	Surface 34	Top	Edge: Surface 34, Top
2428	226	165,365	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2429	227	166,135	-2,282	6	Surface 19	Internal	DWL
2430	227	166,135	2,282	6	Surface 34	Internal	DWL
2431	227	166,135	0	0	Surface 19	Left	Edge: Surface 19, Left
2432	227	166,135	-12,791	20	Surface 19	Right	Edge: Surface 19, Right
2433	227	166,135	12,791	20	Surface 34	Top	Edge: Surface 34, Top
2434	227	166,135	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2435	228	166,905	-2,115	6	Surface 19	Internal	DWL
2436	228	166,905	2,115	6	Surface 34	Internal	DWL
2437	228	166,905	0	0	Surface 19	Left	Edge: Surface 19, Left
2438	228	166,905	-12,682	20	Surface 19	Right	Edge: Surface 19, Right
2439	228	166,905	12,682	20	Surface 34	Top	Edge: Surface 34, Top
2440	228	166,905	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2441	229	167,675	-1,947	6	Surface 19	Internal	DWL
2442	229	167,675	1,947	6	Surface 34	Internal	DWL
2443	229	167,675	0	0	Surface 19	Left	Edge: Surface 19, Left
2444	229	167,675	-12,538	20	Surface 19	Right	Edge: Surface 19, Right
2445	229	167,675	12,538	20	Surface 34	Top	Edge: Surface 34, Top
2446	229	167,675	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2447	230	168,445	-1,779	6	Surface 19	Internal	DWL
2448	230	168,445	1,779	6	Surface 34	Internal	DWL
2449	230	168,445	0	0	Surface 19	Left	Edge: Surface 19, Left
2450	230	168,445	-12,35	20	Surface 19	Right	Edge: Surface 19, Right

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
2451	230	168,445	12,35	20	Surface 34	Top	Edge: Surface 34, Top
2452	230	168,445	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2453	231	169,215	-1,61	6	Surface 19	Internal	DWL
2454	231	169,215	1,61	6	Surface 34	Internal	DWL
2455	231	169,215	0	0	Surface 19	Left	Edge: Surface 19, Left
2456	231	169,215	-12,116	20	Surface 19	Right	Edge: Surface 19, Right
2457	231	169,215	12,116	20	Surface 34	Top	Edge: Surface 34, Top
2458	231	169,215	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2459	232	169,985	-1,441	6	Surface 19	Internal	DWL
2460	232	169,985	1,441	6	Surface 34	Internal	DWL
2461	232	169,985	0	0	Surface 19	Left	Edge: Surface 19, Left
2462	232	169,985	-11,837	20	Surface 19	Right	Edge: Surface 19, Right
2463	232	169,985	11,837	20	Surface 34	Top	Edge: Surface 34, Top
2464	232	169,985	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2465	233	170,755	-1,272	6	Surface 19	Internal	DWL
2466	233	170,755	1,272	6	Surface 34	Internal	DWL
2467	233	170,755	0	0	Surface 19	Left	Edge: Surface 19, Left
2468	233	170,755	-11,512	20	Surface 19	Right	Edge: Surface 19, Right
2469	233	170,755	11,512	20	Surface 34	Top	Edge: Surface 34, Top
2470	233	170,755	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2471	234	171,525	-1,103	6	Surface 19	Internal	DWL
2472	234	171,525	1,103	6	Surface 34	Internal	DWL
2473	234	171,525	0	0	Surface 19	Left	Edge: Surface 19, Left
2474	234	171,525	-11,139	20	Surface 19	Right	Edge: Surface 19, Right
2475	234	171,525	11,139	20	Surface 34	Top	Edge: Surface 34, Top
2476	234	171,525	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2477	235	172,295	-0,936	6	Surface 19	Internal	DWL
2478	235	172,295	0,936	6	Surface 34	Internal	DWL
2479	235	172,295	0	0	Surface 19	Left	Edge: Surface 19, Left
2480	235	172,295	-10,719	20	Surface 19	Right	Edge: Surface 19, Right
2481	235	172,295	10,719	20	Surface 34	Top	Edge: Surface 34, Top
2482	235	172,295	0	0	Surface 34	Bottom	Edge: Surface 34, Bottom
2483	236	173,065	-0,772	6	Surface 19	Internal	DWL
2484	236	173,065	0,772	6	Surface 34	Internal	DWL
2485	236	173,065	0	0,001	Surface 19	Top	Edge: Surface 19, Top
2486	236	173,065	-10,25	20	Surface 19	Right	Edge: Surface 19, Right
2487	236	173,065	10,25	20	Surface 34	Top	Edge: Surface 34, Top
2488	236	173,065	0	0,001	Surface 34	Right	Edge: Surface 34, Right
2489	237	173,835	-0,612	6	Surface 19	Internal	DWL
2490	237	173,835	0,612	6	Surface 34	Internal	DWL
2491	237	173,835	0	0,01	Surface 19	Top	Edge: Surface 19, Top
2492	237	173,835	-9,73	20	Surface 19	Right	Edge: Surface 19, Right
2493	237	173,835	9,73	20	Surface 34	Top	Edge: Surface 34, Top
2494	237	173,835	0	0,01	Surface 34	Right	Edge: Surface 34, Right
2495	238	174,605	-0,456	6	Surface 19	Internal	DWL
2496	238	174,605	0,456	6	Surface 34	Internal	DWL
2497	238	174,605	0	0,028	Surface 19	Top	Edge: Surface 19, Top
2498	238	174,605	-9,154	20	Surface 19	Right	Edge: Surface 19, Right
2499	238	174,605	9,154	20	Surface 34	Top	Edge: Surface 34, Top

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
2500	238	174,605	0	0,028	Surface 34	Right	Edge: Surface 34, Right
2501	239	175,375	-0,306	6	Surface 19	Internal	DWL
2502	239	175,375	0,306	6	Surface 34	Internal	DWL
2503	239	175,375	0	0,061	Surface 19	Top	Edge: Surface 19, Top
2504	239	175,375	-8,518	20	Surface 19	Right	Edge: Surface 19, Right
2505	239	175,375	8,518	20	Surface 34	Top	Edge: Surface 34, Top
2506	239	175,375	0	0,061	Surface 34	Right	Edge: Surface 34, Right
2507	240	176,145	-0,163	6	Surface 19	Internal	DWL
2508	240	176,145	0,163	6	Surface 34	Internal	DWL
2509	240	176,145	0	0,113	Surface 19	Top	Edge: Surface 19, Top
2510	240	176,145	-7,817	20	Surface 19	Right	Edge: Surface 19, Right
2511	240	176,145	7,817	20	Surface 34	Top	Edge: Surface 34, Top
2512	240	176,145	0	0,113	Surface 34	Right	Edge: Surface 34, Right
2513	241	176,915	0	0,191	Surface 19	Top	Edge: Surface 19, Top
2514	241	176,915	-7,04	20	Surface 19	Right	Edge: Surface 19, Right
2515	241	176,915	7,04	20	Surface 34	Top	Edge: Surface 34, Top
2516	241	176,915	0	0,191	Surface 34	Right	Edge: Surface 34, Right
2517	242	177,685	-1,021	6	Surface 19	Internal	DWL
2518	242	177,685	1,021	6	Surface 34	Internal	DWL
2519	242	177,685	0	0,302	Surface 19	Top	Edge: Surface 19, Top
2520	242	177,685	0	6,245	Surface 19	Top	Edge: Surface 19, Top
2521	242	177,685	0	8,112	Surface 19	Top	Edge: Surface 19, Top
2522	242	177,685	-6,177	20	Surface 19	Right	Edge: Surface 19, Right
2523	242	177,685	6,177	20	Surface 34	Top	Edge: Surface 34, Top
2524	242	177,685	0	0,302	Surface 34	Right	Edge: Surface 34, Right
2525	242	177,685	0	6,245	Surface 34	Right	Edge: Surface 34, Right
2526	242	177,685	0	8,112	Surface 34	Right	Edge: Surface 34, Right
2527	243	178,455	-1,336	6	Surface 19	Internal	DWL
2528	243	178,455	1,336	6	Surface 34	Internal	DWL
2529	243	178,455	0	0,453	Surface 19	Top	Edge: Surface 19, Top
2530	243	178,455	0	6,51	Surface 19	Top	Edge: Surface 19, Top
2531	243	178,455	0	9,29	Surface 19	Top	Edge: Surface 19, Top
2532	243	178,455	-5,219	20	Surface 19	Right	Edge: Surface 19, Right
2533	243	178,455	5,219	20	Surface 34	Top	Edge: Surface 34, Top
2534	243	178,455	0	0,453	Surface 34	Right	Edge: Surface 34, Right
2535	243	178,455	0	6,51	Surface 34	Right	Edge: Surface 34, Right
2536	243	178,455	0	9,29	Surface 34	Right	Edge: Surface 34, Right
2537	244	179,225	-1,566	6	Surface 19	Internal	DWL
2538	244	179,225	1,566	6	Surface 34	Internal	DWL
2539	244	179,225	0	0,651	Surface 19	Top	Edge: Surface 19, Top
2540	244	179,225	0	6,753	Surface 19	Top	Edge: Surface 19, Top
2541	244	179,225	0	10,465	Surface 19	Top	Edge: Surface 19, Top
2542	244	179,225	-4,143	20	Surface 19	Right	Edge: Surface 19, Right
2543	244	179,225	4,143	20	Surface 34	Top	Edge: Surface 34, Top
2544	244	179,225	0	0,651	Surface 34	Right	Edge: Surface 34, Right
2545	244	179,225	0	6,753	Surface 34	Right	Edge: Surface 34, Right
2546	244	179,225	0	10,465	Surface 34	Right	Edge: Surface 34, Right
2547	245	179,995	-1,725	6	Surface 19	Internal	DWL
2548	245	179,995	1,725	6	Surface 34	Internal	DWL

	Station Index	Long. Pos. m	Offset m	Height m	Surface	Kind	Name
2549	245	179,995	0	0,907	Surface 19	Top	Edge: Surface 19, Top
2550	245	179,995	0	6,952	Surface 19	Top	Edge: Surface 19, Top
2551	245	179,995	0	11,64	Surface 19	Top	Edge: Surface 19, Top
2552	245	179,995	-2,899	20	Surface 19	Right	Edge: Surface 19, Right
2553	245	179,995	2,899	20	Surface 34	Top	Edge: Surface 34, Top
2554	245	179,995	0	0,907	Surface 34	Right	Edge: Surface 34, Right
2555	245	179,995	0	6,952	Surface 34	Right	Edge: Surface 34, Right
2556	245	179,995	0	11,64	Surface 34	Right	Edge: Surface 34, Right
2557	246	180,765	-1,784	6	Surface 19	Internal	DWL
2558	246	180,765	1,784	6	Surface 34	Internal	DWL
2559	246	180,765	0	1,238	Surface 19	Top	Edge: Surface 19, Top
2560	246	180,765	0	7,063	Surface 19	Top	Edge: Surface 19, Top
2561	246	180,765	0	12,815	Surface 19	Top	Edge: Surface 19, Top
2562	246	180,765	-1,346	20	Surface 19	Right	Edge: Surface 19, Right
2563	246	180,765	1,346	20	Surface 34	Top	Edge: Surface 34, Top
2564	246	180,765	0	1,238	Surface 34	Right	Edge: Surface 34, Right
2565	246	180,765	0	7,063	Surface 34	Right	Edge: Surface 34, Right
2566	246	180,765	0	12,815	Surface 34	Right	Edge: Surface 34, Right
2567	247	181,535	-1,7	6	Surface 19	Internal	DWL
2568	247	181,535	1,7	6	Surface 34	Internal	DWL
2569	247	181,535	0	1,672	Surface 19	Top	Edge: Surface 19, Top
2570	247	181,535	0	7,069	Surface 19	Top	Edge: Surface 19, Top
2571	247	181,535	0	13,989	Surface 19	Top	Edge: Surface 19, Top
2572	247	181,535	0	18,873	Surface 19	Top	Edge: Surface 19, Top
2573	247	181,535	0	1,672	Surface 34	Right	Edge: Surface 34, Right
2574	247	181,535	0	7,069	Surface 34	Right	Edge: Surface 34, Right
2575	247	181,535	0	13,989	Surface 34	Right	Edge: Surface 34, Right
2576	247	181,535	0	18,873	Surface 34	Right	Edge: Surface 34, Right
2577	248	182,305	-1,459	6	Surface 19	Internal	DWL
2578	248	182,305	1,459	6	Surface 34	Internal	DWL
2579	248	182,305	0	2,259	Surface 19	Top	Edge: Surface 19, Top
2580	248	182,305	0	6,925	Surface 19	Top	Edge: Surface 19, Top
2581	248	182,305	0	15,164	Surface 19	Top	Edge: Surface 19, Top
2582	248	182,305	0	16,675	Surface 19	Top	Edge: Surface 19, Top
2583	248	182,305	0	2,259	Surface 34	Right	Edge: Surface 34, Right
2584	248	182,305	0	6,925	Surface 34	Right	Edge: Surface 34, Right
2585	248	182,305	0	15,164	Surface 34	Right	Edge: Surface 34, Right
2586	248	182,305	0	16,675	Surface 34	Right	Edge: Surface 34, Right
2587	249	183,075	-0,954	6	Surface 19	Internal	DWL
2588	249	183,075	0,954	6	Surface 34	Internal	DWL
2589	249	183,075	0	3,148	Surface 19	Top	Edge: Surface 19, Top
2590	249	183,075	0	6,48	Surface 19	Top	Edge: Surface 19, Top
2591	249	183,075	0	3,148	Surface 34	Right	Edge: Surface 34, Right
2592	249	183,075	0	6,48	Surface 34	Right	Edge: Surface 34, Right
2593	250	183,627	0	4,792	Surface 19	Top	Edge: Surface 19, Top
2594	250	183,627	0	4,792	Surface 19	Top	Edge: Surface 19, Top
2595	250	183,627	0	4,792	Surface 34	Right	Edge: Surface 34, Right
2596	250	183,627	0	4,792	Surface 34	Right	Edge: Surface 34, Right