

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00729 ~ PN1411GV-15L35K-EX-FJ2.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00729\_M-15L  
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 9/18/2018  
 [UPDATE] 11/8/2018  
 [LUMCAT] PN1411GV-15L35K-EX-FJ2  
 [LUMINARE] Nom. 14" Diam x 10.8" H, Nautical Series RLM luminaire  
 [OTHER] Tapered spun aluminum shade, Matte White interior finish  
 [OTHER] 4" diam, inside frosted jar  
 [OTHER] 64.4 Degree Beam Angle  
 [OTHER] 88% Downlight; 12% Uplight  
 [LAMPCAT] N/A  
 [LAMP] N/A, Gen 3  
 [OTHER] Total Luminaire Watts is approximate  
 [\_CCTMULT] 40K x 1.03, 30K x 0.985, 27K x 0.971  
 [\_CRI] 80+  
 [\_LAMPMULT] 15L x 0.322, 27L x 0.564, 37L x 0.826  
 [OTHER] This report generated by Spectrum Lighting, scaled from 55L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	635
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.82
Spacing Criterion (90-270)	0.82
Spacing Criterion (Diagonal)	1.04
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.17 ft (Diameter)
Luminous Width (90-270)	1.17 ft (Diameter)
Luminous Height	0.25 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1164	1164	1164
55	1057	1057	1057
65	1119	1119	1119
75	1169	1169	1169
85	1051	1051	1051

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
<b>0.0</b>	257.144	257.144	257.144	257.144	257.144	257.144	257.144	257.144	257.144	257.144
<b>2.5</b>	257.144	257.144	257.144	257.144	257.144	257.144	257.144	257.144	257.144	257.144
<b>5.0</b>	248.434	248.434	248.434	248.434	248.434	248.434	248.434	248.434	248.434	248.434
<b>7.5</b>	239.231	239.231	239.231	239.231	239.231	239.231	239.231	239.231	239.231	239.231
<b>10.0</b>	224.878	224.878	224.878	224.878	224.878	224.878	224.878	224.878	224.878	224.878
<b>12.5</b>	210.509	210.509	210.509	210.509	210.509	210.509	210.509	210.509	210.509	210.509
<b>15.0</b>	196.152	196.152	196.152	196.152	196.152	196.152	196.152	196.152	196.152	196.152
<b>17.5</b>	182.027	182.027	182.027	182.027	182.027	182.027	182.027	182.027	182.027	182.027
<b>20.0</b>	170.186	170.186	170.186	170.186	170.186	170.186	170.186	170.186	170.186	170.186
<b>22.5</b>	158.743	158.743	158.743	158.743	158.743	158.743	158.743	158.743	158.743	158.743
<b>25.0</b>	149.675	149.675	149.675	149.675	149.675	149.675	149.675	149.675	149.675	149.675
<b>27.5</b>	141.014	141.014	141.014	141.014	141.014	141.014	141.014	141.014	141.014	141.014
<b>30.0</b>	134.059	134.059	134.059	134.059	134.059	134.059	134.059	134.059	134.059	134.059
<b>32.5</b>	127.575	127.575	127.575	127.575	127.575	127.575	127.575	127.575	127.575	127.575
<b>35.0</b>	122.592	122.592	122.592	122.592	122.592	122.592	122.592	122.592	122.592	122.592
<b>37.5</b>	117.778	117.778	117.778	117.778	117.778	117.778	117.778	117.778	117.778	117.778
<b>40.0</b>	113.377	113.377	113.377	113.377	113.377	113.377	113.377	113.377	113.377	113.377
<b>42.5</b>	109.002	109.002	109.002	109.002	109.002	109.002	109.002	109.002	109.002	109.002
<b>45.0</b>	104.679	104.679	104.679	104.679	104.679	104.679	104.679	104.679	104.679	104.679
<b>47.5</b>	100.035	100.035	100.035	100.035	100.035	100.035	100.035	100.035	100.035	100.035
<b>50.0</b>	94.882	94.882	94.882	94.882	94.882	94.882	94.882	94.882	94.882	94.882
<b>52.5</b>	89.613	89.613	89.613	89.613	89.613	89.613	89.613	89.613	89.613	89.613
<b>55.0</b>	84.191	84.191	84.191	84.191	84.191	84.191	84.191	84.191	84.191	84.191
<b>57.5</b>	79.812	79.812	79.812	79.812	79.812	79.812	79.812	79.812	79.812	79.812
<b>60.0</b>	76.544	76.544	76.544	76.544	76.544	76.544	76.544	76.544	76.544	76.544
<b>62.5</b>	74.974	74.974	74.974	74.974	74.974	74.974	74.974	74.974	74.974	74.974
<b>65.0</b>	74.893	74.893	74.893	74.893	74.893	74.893	74.893	74.893	74.893	74.893
<b>67.5</b>	73.750	73.750	73.750	73.750	73.750	73.750	73.750	73.750	73.750	73.750
<b>70.0</b>	71.851	71.851	71.851	71.851	71.851	71.851	71.851	71.851	71.851	71.851
<b>72.5</b>	67.218	67.218	67.218	67.218	67.218	67.218	67.218	67.218	67.218	67.218
<b>75.0</b>	60.978	60.978	60.978	60.978	60.978	60.978	60.978	60.978	60.978	60.978
<b>77.5</b>	54.748	54.748	54.748	54.748	54.748	54.748	54.748	54.748	54.748	54.748
<b>80.0</b>	48.521	48.521	48.521	48.521	48.521	48.521	48.521	48.521	48.521	48.521
<b>82.5</b>	42.963	42.963	42.963	42.963	42.963	42.963	42.963	42.963	42.963	42.963
<b>85.0</b>	37.652	37.652	37.652	37.652	37.652	37.652	37.652	37.652	37.652	37.652
<b>87.5</b>	32.869	32.869	32.869	32.869	32.869	32.869	32.869	32.869	32.869	32.869
<b>90.0</b>	28.238	28.238	28.238	28.238	28.238	28.238	28.238	28.238	28.238	28.238
<b>92.5</b>	26.558	26.558	26.558	26.558	26.558	26.558	26.558	26.558	26.558	26.558
<b>95.0</b>	25.495	25.495	25.495	25.495	25.495	25.495	25.495	25.495	25.495	25.495
<b>97.5</b>	25.344	25.344	25.344	25.344	25.344	25.344	25.344	25.344	25.344	25.344
<b>100.0</b>	25.322	25.322	25.322	25.322	25.322	25.322	25.322	25.322	25.322	25.322
<b>102.5</b>	24.665	24.665	24.665	24.665	24.665	24.665	24.665	24.665	24.665	24.665
<b>105.0</b>	23.956	23.956	23.956	23.956	23.956	23.956	23.956	23.956	23.956	23.956
<b>107.5</b>	22.648	22.648	22.648	22.648	22.648	22.648	22.648	22.648	22.648	22.648
<b>110.0</b>	21.290	21.290	21.290	21.290	21.290	21.290	21.290	21.290	21.290	21.290
<b>112.5</b>	18.426	18.426	18.426	18.426	18.426	18.426	18.426	18.426	18.426	18.426
<b>115.0</b>	15.501	15.501	15.501	15.501	15.501	15.501	15.501	15.501	15.501	15.501
<b>117.5</b>	11.746	11.746	11.746	11.746	11.746	11.746	11.746	11.746	11.746	11.746
<b>120.0</b>	8.207	8.207	8.207	8.207	8.207	8.207	8.207	8.207	8.207	8.207
<b>122.5</b>	6.233	6.233	6.233	6.233	6.233	6.233	6.233	6.233	6.233	6.233
<b>125.0</b>	4.413	4.413	4.413	4.413	4.413	4.413	4.413	4.413	4.413	4.413

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**CANDELA TABULATION - (Cont.)**

127.5	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351
130.0	2.370	2.370	2.370	2.370	2.370	2.370	2.370	2.370	2.370	2.370
132.5	1.684	1.684	1.684	1.684	1.684	1.684	1.684	1.684	1.684	1.684
135.0	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095
137.5	0.772	0.772	0.772	0.772	0.772	0.772	0.772	0.772	0.772	0.772
140.0	0.517	0.517	0.517	0.517	0.517	0.517	0.517	0.517	0.517	0.517
142.5	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413
145.0	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334
147.5	0.301	0.301	0.301	0.301	0.301	0.301	0.301	0.301	0.301	0.301
150.0	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287	0.287
152.5	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303
155.0	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315
157.5	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324
160.0	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318	0.318
162.5	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302
165.0	0.294	0.294	0.294	0.294	0.294	0.294	0.294	0.294	0.294	0.294
167.5	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275
170.0	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250
172.5	0.305	0.305	0.305	0.305	0.305	0.305	0.305	0.305	0.305	0.305
175.0	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300
177.5	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307
180.0	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275

**Vert. Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	257.144	257.144	257.144	257.144	257.144	257.144	257.144
2.5	257.144	257.144	257.144	257.144	257.144	257.144	257.144
5.0	248.434	248.434	248.434	248.434	248.434	248.434	248.434
7.5	239.231	239.231	239.231	239.231	239.231	239.231	239.231
10.0	224.878	224.878	224.878	224.878	224.878	224.878	224.878
12.5	210.509	210.509	210.509	210.509	210.509	210.509	210.509
15.0	196.152	196.152	196.152	196.152	196.152	196.152	196.152
17.5	182.027	182.027	182.027	182.027	182.027	182.027	182.027
20.0	170.186	170.186	170.186	170.186	170.186	170.186	170.186
22.5	158.743	158.743	158.743	158.743	158.743	158.743	158.743
25.0	149.675	149.675	149.675	149.675	149.675	149.675	149.675
27.5	141.014	141.014	141.014	141.014	141.014	141.014	141.014
30.0	134.059	134.059	134.059	134.059	134.059	134.059	134.059
32.5	127.575	127.575	127.575	127.575	127.575	127.575	127.575
35.0	122.592	122.592	122.592	122.592	122.592	122.592	122.592
37.5	117.778	117.778	117.778	117.778	117.778	117.778	117.778
40.0	113.377	113.377	113.377	113.377	113.377	113.377	113.377
42.5	109.002	109.002	109.002	109.002	109.002	109.002	109.002
45.0	104.679	104.679	104.679	104.679	104.679	104.679	104.679
47.5	100.035	100.035	100.035	100.035	100.035	100.035	100.035
50.0	94.882	94.882	94.882	94.882	94.882	94.882	94.882
52.5	89.613	89.613	89.613	89.613	89.613	89.613	89.613
55.0	84.191	84.191	84.191	84.191	84.191	84.191	84.191
57.5	79.812	79.812	79.812	79.812	79.812	79.812	79.812
60.0	76.544	76.544	76.544	76.544	76.544	76.544	76.544
62.5	74.974	74.974	74.974	74.974	74.974	74.974	74.974
65.0	74.893	74.893	74.893	74.893	74.893	74.893	74.893

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**CANDELA TABULATION - (Cont.)**

67.5	73.750	73.750	73.750	73.750	73.750	73.750	73.750
70.0	71.851	71.851	71.851	71.851	71.851	71.851	71.851
72.5	67.218	67.218	67.218	67.218	67.218	67.218	67.218
75.0	60.978	60.978	60.978	60.978	60.978	60.978	60.978
77.5	54.748	54.748	54.748	54.748	54.748	54.748	54.748
80.0	48.521	48.521	48.521	48.521	48.521	48.521	48.521
82.5	42.963	42.963	42.963	42.963	42.963	42.963	42.963
85.0	37.652	37.652	37.652	37.652	37.652	37.652	37.652
87.5	32.869	32.869	32.869	32.869	32.869	32.869	32.869
90.0	28.238	28.238	28.238	28.238	28.238	28.238	28.238
92.5	26.558	26.558	26.558	26.558	26.558	26.558	26.558
95.0	25.495	25.495	25.495	25.495	25.495	25.495	25.495
97.5	25.344	25.344	25.344	25.344	25.344	25.344	25.344
100.0	25.322	25.322	25.322	25.322	25.322	25.322	25.322
102.5	24.665	24.665	24.665	24.665	24.665	24.665	24.665
105.0	23.956	23.956	23.956	23.956	23.956	23.956	23.956
107.5	22.648	22.648	22.648	22.648	22.648	22.648	22.648
110.0	21.290	21.290	21.290	21.290	21.290	21.290	21.290
112.5	18.426	18.426	18.426	18.426	18.426	18.426	18.426
115.0	15.501	15.501	15.501	15.501	15.501	15.501	15.501
117.5	11.746	11.746	11.746	11.746	11.746	11.746	11.746
120.0	8.207	8.207	8.207	8.207	8.207	8.207	8.207
122.5	6.233	6.233	6.233	6.233	6.233	6.233	6.233
125.0	4.413	4.413	4.413	4.413	4.413	4.413	4.413
127.5	3.351	3.351	3.351	3.351	3.351	3.351	3.351
130.0	2.370	2.370	2.370	2.370	2.370	2.370	2.370
132.5	1.684	1.684	1.684	1.684	1.684	1.684	1.684
135.0	1.095	1.095	1.095	1.095	1.095	1.095	1.095
137.5	0.772	0.772	0.772	0.772	0.772	0.772	0.772
140.0	0.517	0.517	0.517	0.517	0.517	0.517	0.517
142.5	0.413	0.413	0.413	0.413	0.413	0.413	0.413
145.0	0.334	0.334	0.334	0.334	0.334	0.334	0.334
147.5	0.301	0.301	0.301	0.301	0.301	0.301	0.301
150.0	0.287	0.287	0.287	0.287	0.287	0.287	0.287
152.5	0.303	0.303	0.303	0.303	0.303	0.303	0.303
155.0	0.315	0.315	0.315	0.315	0.315	0.315	0.315
157.5	0.324	0.324	0.324	0.324	0.324	0.324	0.324
160.0	0.318	0.318	0.318	0.318	0.318	0.318	0.318
162.5	0.302	0.302	0.302	0.302	0.302	0.302	0.302
165.0	0.294	0.294	0.294	0.294	0.294	0.294	0.294
167.5	0.275	0.275	0.275	0.275	0.275	0.275	0.275
170.0	0.250	0.250	0.250	0.250	0.250	0.250	0.250
172.5	0.305	0.305	0.305	0.305	0.305	0.305	0.305
175.0	0.300	0.300	0.300	0.300	0.300	0.300	0.300
177.5	0.307	0.307	0.307	0.307	0.307	0.307	0.307
180.0	0.275	0.275	0.275	0.275	0.275	0.275	0.275

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	77.94	N.A.	12.30
0-30	147.06	N.A.	23.20
0-40	224.03	N.A.	35.30
0-60	380.68	N.A.	60.00
0-80	518.77	N.A.	81.80
0-90	560.17	N.A.	88.30
10-90	537.15	N.A.	84.70
20-40	146.09	N.A.	23.00
20-50	226.80	N.A.	35.70
40-70	230.53	N.A.	36.30
60-80	138.09	N.A.	21.80
70-80	64.21	N.A.	10.10
80-90	41.40	N.A.	6.50
90-110	53.45	N.A.	8.40
90-120	68.53	N.A.	10.80
90-130	72.90	N.A.	11.50
90-150	74.12	N.A.	11.70
90-180	74.37	N.A.	11.70
110-180	20.92	N.A.	3.30
0-180	634.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	23.02
10-20	54.91
20-30	69.12
30-40	76.97
40-50	80.71
50-60	75.95
60-70	73.88
70-80	64.21
80-90	41.40
90-100	28.42
100-110	25.03
110-120	15.08
120-130	4.38
130-140	0.99
140-150	0.23
150-160	0.14
160-170	0.08
170-180	0.03

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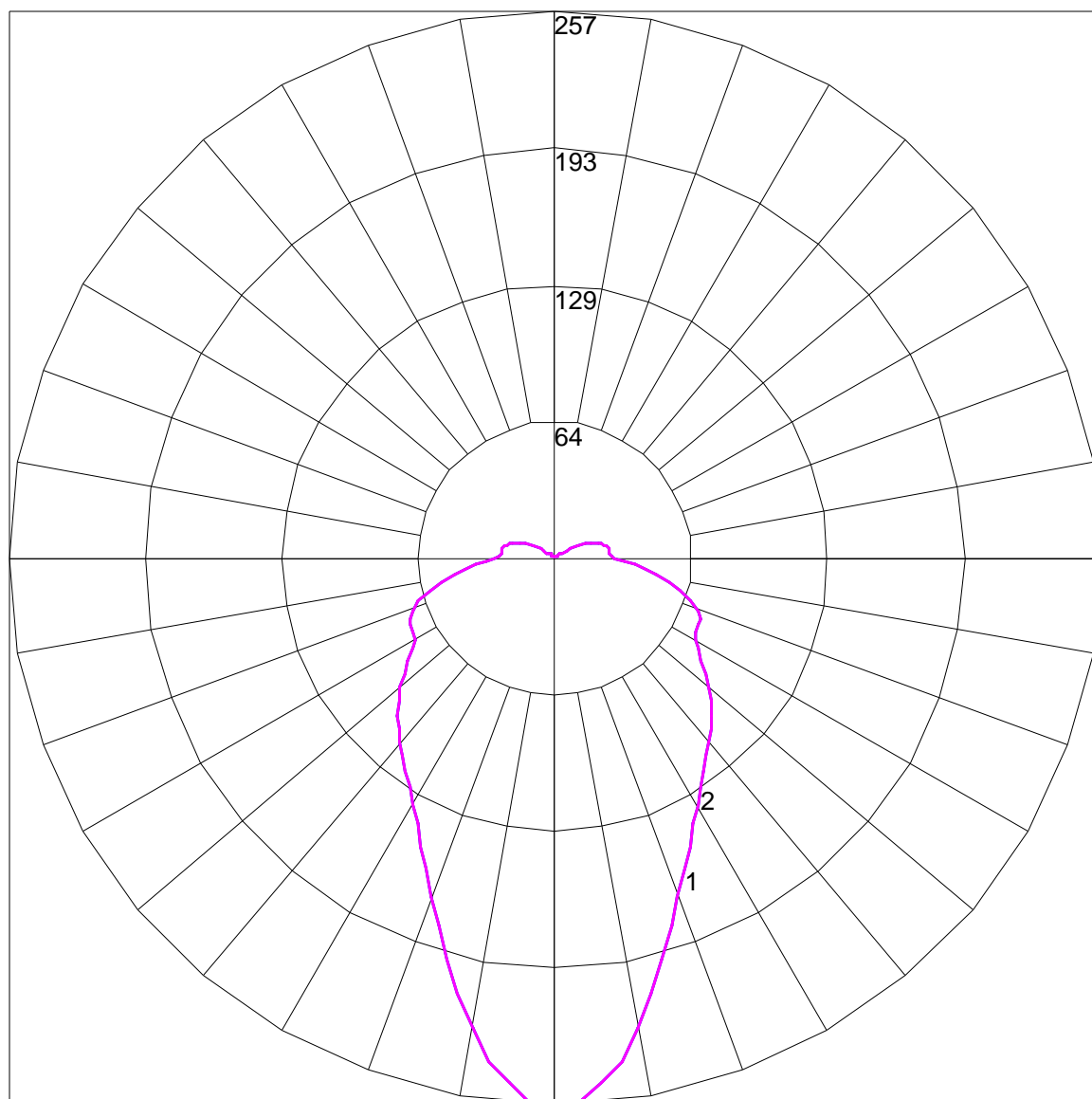
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	104	98	93	88	99	94	90	85	88	84	81	82	79	76	76	74	72	69
2	93	84	76	70	90	81	74	68	76	70	65	71	66	62	66	62	59	56
3	85	73	65	58	81	71	63	56	66	59	54	62	56	51	58	53	49	46
4	78	65	56	49	74	63	54	48	59	52	46	55	49	44	52	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40	50	43	38	47	41	37	34
6	66	52	43	37	63	51	42	36	48	40	35	45	39	34	42	37	32	30
7	61	48	39	32	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	30	26	24
9	54	40	32	26	52	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	24	48	36	29	24	34	28	23	33	27	22	31	26	22	20

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00729 ~ PN1411GV-15L35K-EX-FJ2.IES

POLAR GRAPH



Maximum Candela = 257.144 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)