

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00345\_6 ~ PS1408GV-27L35K-EX-FJ2.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00345\_6\_M-27L

[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 9/17/2018

[UPDATE] 10/24/2018

[LUMINAIRE] PS1408GV-27L-35K-EX-FJ2

[LUMCAT] Nom. 14" Diam x 10.4" H, Nautical Series RLM luminaire

[OTHER] Tapered spun aluminum shade, Matte White interior finish

[OTHER] 4" diam, inside frosted jar

[OTHER] 106.4 Degree Beam Angle

[OTHER] 96% Downlight; 4% Uplight

[LAMPCAT] N/A

[LAMP] N/A, Gen3

[OTHER] Total Luminaire Watts is approximate

[OTHER] CCT Output Multipliers: 40K x 1.03, 30K x 0.985, 27K x 0.971

[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	1370
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.36
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00345\_6 ~ PS1408GV-27L35K-EX-FJ2.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3480	3480	3480
55	2862	2862	2862
65	2301	2301	2301
75	1845	1845	1845
85	1281	1281	1281

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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>	490.006	490.006	490.006	490.006	490.006	490.006	490.006	490.006	490.006	490.006
<b>2.5</b>	490.006	490.006	490.006	490.006	490.006	490.006	490.006	490.006	490.006	490.006
<b>5.0</b>	480.753	480.753	480.753	480.753	480.753	480.753	480.753	480.753	480.753	480.753
<b>7.5</b>	469.650	469.650	469.650	469.650	469.650	469.650	469.650	469.650	469.650	469.650
<b>10.0</b>	454.244	454.244	454.244	454.244	454.244	454.244	454.244	454.244	454.244	454.244
<b>12.5</b>	438.280	438.280	438.280	438.280	438.280	438.280	438.280	438.280	438.280	438.280
<b>15.0</b>	423.605	423.605	423.605	423.605	423.605	423.605	423.605	423.605	423.605	423.605
<b>17.5</b>	409.021	409.021	409.021	409.021	409.021	409.021	409.021	409.021	409.021	409.021
<b>20.0</b>	398.946	398.946	398.946	398.946	398.946	398.946	398.946	398.946	398.946	398.946
<b>22.5</b>	389.055	389.055	389.055	389.055	389.055	389.055	389.055	389.055	389.055	389.055
<b>25.0</b>	382.163	382.163	382.163	382.163	382.163	382.163	382.163	382.163	382.163	382.163
<b>27.5</b>	375.314	375.314	375.314	375.314	375.314	375.314	375.314	375.314	375.314	375.314
<b>30.0</b>	368.938	368.938	368.938	368.938	368.938	368.938	368.938	368.938	368.938	368.938
<b>32.5</b>	362.361	362.361	362.361	362.361	362.361	362.361	362.361	362.361	362.361	362.361
<b>35.0</b>	354.503	354.503	354.503	354.503	354.503	354.503	354.503	354.503	354.503	354.503
<b>37.5</b>	346.251	346.251	346.251	346.251	346.251	346.251	346.251	346.251	346.251	346.251
<b>40.0</b>	336.273	336.273	336.273	336.273	336.273	336.273	336.273	336.273	336.273	336.273
<b>42.5</b>	325.659	325.659	325.659	325.659	325.659	325.659	325.659	325.659	325.659	325.659
<b>45.0</b>	312.975	312.975	312.975	312.975	312.975	312.975	312.975	312.975	312.975	312.975
<b>47.5</b>	298.312	298.312	298.312	298.312	298.312	298.312	298.312	298.312	298.312	298.312
<b>50.0</b>	278.698	278.698	278.698	278.698	278.698	278.698	278.698	278.698	278.698	278.698
<b>52.5</b>	256.165	256.165	256.165	256.165	256.165	256.165	256.165	256.165	256.165	256.165
<b>55.0</b>	227.877	227.877	227.877	227.877	227.877	227.877	227.877	227.877	227.877	227.877
<b>57.5</b>	201.873	201.873	201.873	201.873	201.873	201.873	201.873	201.873	201.873	201.873
<b>60.0</b>	179.502	179.502	179.502	179.502	179.502	179.502	179.502	179.502	179.502	179.502
<b>62.5</b>	162.957	162.957	162.957	162.957	162.957	162.957	162.957	162.957	162.957	162.957
<b>65.0</b>	153.930	153.930	153.930	153.930	153.930	153.930	153.930	153.930	153.930	153.930
<b>67.5</b>	143.255	143.255	143.255	143.255	143.255	143.255	143.255	143.255	143.255	143.255
<b>70.0</b>	130.848	130.848	130.848	130.848	130.848	130.848	130.848	130.848	130.848	130.848
<b>72.5</b>	115.002	115.002	115.002	115.002	115.002	115.002	115.002	115.002	115.002	115.002
<b>75.0</b>	96.190	96.190	96.190	96.190	96.190	96.190	96.190	96.190	96.190	96.190
<b>77.5</b>	80.214	80.214	80.214	80.214	80.214	80.214	80.214	80.214	80.214	80.214
<b>80.0</b>	66.229	66.229	66.229	66.229	66.229	66.229	66.229	66.229	66.229	66.229
<b>82.5</b>	55.208	55.208	55.208	55.208	55.208	55.208	55.208	55.208	55.208	55.208
<b>85.0</b>	45.880	45.880	45.880	45.880	45.880	45.880	45.880	45.880	45.880	45.880
<b>87.5</b>	38.248	38.248	38.248	38.248	38.248	38.248	38.248	38.248	38.248	38.248
<b>90.0</b>	31.387	31.387	31.387	31.387	31.387	31.387	31.387	31.387	31.387	31.387
<b>92.5</b>	27.579	27.579	27.579	27.579	27.579	27.579	27.579	27.579	27.579	27.579
<b>95.0</b>	24.850	24.850	24.850	24.850	24.850	24.850	24.850	24.850	24.850	24.850
<b>97.5</b>	22.563	22.563	22.563	22.563	22.563	22.563	22.563	22.563	22.563	22.563
<b>100.0</b>	20.396	20.396	20.396	20.396	20.396	20.396	20.396	20.396	20.396	20.396
<b>102.5</b>	17.733	17.733	17.733	17.733	17.733	17.733	17.733	17.733	17.733	17.733
<b>105.0</b>	14.974	14.974	14.974	14.974	14.974	14.974	14.974	14.974	14.974	14.974
<b>107.5</b>	12.579	12.579	12.579	12.579	12.579	12.579	12.579	12.579	12.579	12.579
<b>110.0</b>	10.229	10.229	10.229	10.229	10.229	10.229	10.229	10.229	10.229	10.229
<b>112.5</b>	8.503	8.503	8.503	8.503	8.503	8.503	8.503	8.503	8.503	8.503
<b>115.0</b>	6.818	6.818	6.818	6.818	6.818	6.818	6.818	6.818	6.818	6.818
<b>117.5</b>	5.571	5.571	5.571	5.571	5.571	5.571	5.571	5.571	5.571	5.571
<b>120.0</b>	4.349	4.349	4.349	4.349	4.349	4.349	4.349	4.349	4.349	4.349
<b>122.5</b>	3.607	3.607	3.607	3.607	3.607	3.607	3.607	3.607	3.607	3.607
<b>125.0</b>	2.877	2.877	2.877	2.877	2.877	2.877	2.877	2.877	2.877	2.877

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**CANDELA TABULATION - (Cont.)**

127.5	2.258	2.258	2.258	2.258	2.258	2.258	2.258	2.258	2.258	2.258
130.0	1.669	1.669	1.669	1.669	1.669	1.669	1.669	1.669	1.669	1.669
132.5	1.265	1.265	1.265	1.265	1.265	1.265	1.265	1.265	1.265	1.265
135.0	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918
137.5	0.809	0.809	0.809	0.809	0.809	0.809	0.809	0.809	0.809	0.809
140.0	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724	0.724
142.5	0.710	0.710	0.710	0.710	0.710	0.710	0.710	0.710	0.710	0.710
145.0	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696	0.696
147.5	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683	0.683
150.0	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667
152.5	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644
155.0	0.637	0.637	0.637	0.637	0.637	0.637	0.637	0.637	0.637	0.637
157.5	0.651	0.651	0.651	0.651	0.651	0.651	0.651	0.651	0.651	0.651
160.0	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644
162.5	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619
165.0	0.616	0.616	0.616	0.616	0.616	0.616	0.616	0.616	0.616	0.616
167.5	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613
170.0	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604
172.5	0.593	0.593	0.593	0.593	0.593	0.593	0.593	0.593	0.593	0.593
175.0	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600
177.5	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664
180.0	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633	0.633

**Vert. Angles**      **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	490.006	490.006	490.006	490.006	490.006	490.006	490.006
2.5	490.006	490.006	490.006	490.006	490.006	490.006	490.006
5.0	480.753	480.753	480.753	480.753	480.753	480.753	480.753
7.5	469.650	469.650	469.650	469.650	469.650	469.650	469.650
10.0	454.244	454.244	454.244	454.244	454.244	454.244	454.244
12.5	438.280	438.280	438.280	438.280	438.280	438.280	438.280
15.0	423.605	423.605	423.605	423.605	423.605	423.605	423.605
17.5	409.021	409.021	409.021	409.021	409.021	409.021	409.021
20.0	398.946	398.946	398.946	398.946	398.946	398.946	398.946
22.5	389.055	389.055	389.055	389.055	389.055	389.055	389.055
25.0	382.163	382.163	382.163	382.163	382.163	382.163	382.163
27.5	375.314	375.314	375.314	375.314	375.314	375.314	375.314
30.0	368.938	368.938	368.938	368.938	368.938	368.938	368.938
32.5	362.361	362.361	362.361	362.361	362.361	362.361	362.361
35.0	354.503	354.503	354.503	354.503	354.503	354.503	354.503
37.5	346.251	346.251	346.251	346.251	346.251	346.251	346.251
40.0	336.273	336.273	336.273	336.273	336.273	336.273	336.273
42.5	325.659	325.659	325.659	325.659	325.659	325.659	325.659
45.0	312.975	312.975	312.975	312.975	312.975	312.975	312.975
47.5	298.312	298.312	298.312	298.312	298.312	298.312	298.312
50.0	278.698	278.698	278.698	278.698	278.698	278.698	278.698
52.5	256.165	256.165	256.165	256.165	256.165	256.165	256.165
55.0	227.877	227.877	227.877	227.877	227.877	227.877	227.877
57.5	201.873	201.873	201.873	201.873	201.873	201.873	201.873
60.0	179.502	179.502	179.502	179.502	179.502	179.502	179.502
62.5	162.957	162.957	162.957	162.957	162.957	162.957	162.957
65.0	153.930	153.930	153.930	153.930	153.930	153.930	153.930

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**CANDELA TABULATION - (Cont.)**

67.5	143.255	143.255	143.255	143.255	143.255	143.255	143.255
70.0	130.848	130.848	130.848	130.848	130.848	130.848	130.848
72.5	115.002	115.002	115.002	115.002	115.002	115.002	115.002
75.0	96.190	96.190	96.190	96.190	96.190	96.190	96.190
77.5	80.214	80.214	80.214	80.214	80.214	80.214	80.214
80.0	66.229	66.229	66.229	66.229	66.229	66.229	66.229
82.5	55.208	55.208	55.208	55.208	55.208	55.208	55.208
85.0	45.880	45.880	45.880	45.880	45.880	45.880	45.880
87.5	38.248	38.248	38.248	38.248	38.248	38.248	38.248
90.0	31.387	31.387	31.387	31.387	31.387	31.387	31.387
92.5	27.579	27.579	27.579	27.579	27.579	27.579	27.579
95.0	24.850	24.850	24.850	24.850	24.850	24.850	24.850
97.5	22.563	22.563	22.563	22.563	22.563	22.563	22.563
100.0	20.396	20.396	20.396	20.396	20.396	20.396	20.396
102.5	17.733	17.733	17.733	17.733	17.733	17.733	17.733
105.0	14.974	14.974	14.974	14.974	14.974	14.974	14.974
107.5	12.579	12.579	12.579	12.579	12.579	12.579	12.579
110.0	10.229	10.229	10.229	10.229	10.229	10.229	10.229
112.5	8.503	8.503	8.503	8.503	8.503	8.503	8.503
115.0	6.818	6.818	6.818	6.818	6.818	6.818	6.818
117.5	5.571	5.571	5.571	5.571	5.571	5.571	5.571
120.0	4.349	4.349	4.349	4.349	4.349	4.349	4.349
122.5	3.607	3.607	3.607	3.607	3.607	3.607	3.607
125.0	2.877	2.877	2.877	2.877	2.877	2.877	2.877
127.5	2.258	2.258	2.258	2.258	2.258	2.258	2.258
130.0	1.669	1.669	1.669	1.669	1.669	1.669	1.669
132.5	1.265	1.265	1.265	1.265	1.265	1.265	1.265
135.0	0.918	0.918	0.918	0.918	0.918	0.918	0.918
137.5	0.809	0.809	0.809	0.809	0.809	0.809	0.809
140.0	0.724	0.724	0.724	0.724	0.724	0.724	0.724
142.5	0.710	0.710	0.710	0.710	0.710	0.710	0.710
145.0	0.696	0.696	0.696	0.696	0.696	0.696	0.696
147.5	0.683	0.683	0.683	0.683	0.683	0.683	0.683
150.0	0.667	0.667	0.667	0.667	0.667	0.667	0.667
152.5	0.644	0.644	0.644	0.644	0.644	0.644	0.644
155.0	0.637	0.637	0.637	0.637	0.637	0.637	0.637
157.5	0.651	0.651	0.651	0.651	0.651	0.651	0.651
160.0	0.644	0.644	0.644	0.644	0.644	0.644	0.644
162.5	0.619	0.619	0.619	0.619	0.619	0.619	0.619
165.0	0.616	0.616	0.616	0.616	0.616	0.616	0.616
167.5	0.613	0.613	0.613	0.613	0.613	0.613	0.613
170.0	0.604	0.604	0.604	0.604	0.604	0.604	0.604
172.5	0.593	0.593	0.593	0.593	0.593	0.593	0.593
175.0	0.600	0.600	0.600	0.600	0.600	0.600	0.600
177.5	0.664	0.664	0.664	0.664	0.664	0.664	0.664
180.0	0.633	0.633	0.633	0.633	0.633	0.633	0.633

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	164.56	N.A.	12.00
0-30	341.27	N.A.	24.90
0-40	563.21	N.A.	41.10
0-60	1007.89	N.A.	73.60
0-80	1263.18	N.A.	92.20
0-90	1314.45	N.A.	96.00
10-90	1269.37	N.A.	92.70
20-40	398.65	N.A.	29.10
20-50	638.99	N.A.	46.70
40-70	597.10	N.A.	43.60
60-80	255.28	N.A.	18.60
70-80	102.87	N.A.	7.50
80-90	51.27	N.A.	3.70
90-110	43.60	N.A.	3.20
90-120	50.63	N.A.	3.70
90-130	53.29	N.A.	3.90
90-150	54.55	N.A.	4.00
90-180	55.08	N.A.	4.00
110-180	11.48	N.A.	0.80
0-180	1369.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	45.08
10-20	119.48
20-30	176.71
30-40	221.94
40-50	240.34
50-60	204.35
60-70	152.41
70-80	102.87
80-90	51.27
90-100	27.53
100-110	16.07
110-120	7.03
120-130	2.66
130-140	0.82
140-150	0.44
150-160	0.30
160-170	0.18
170-180	0.06

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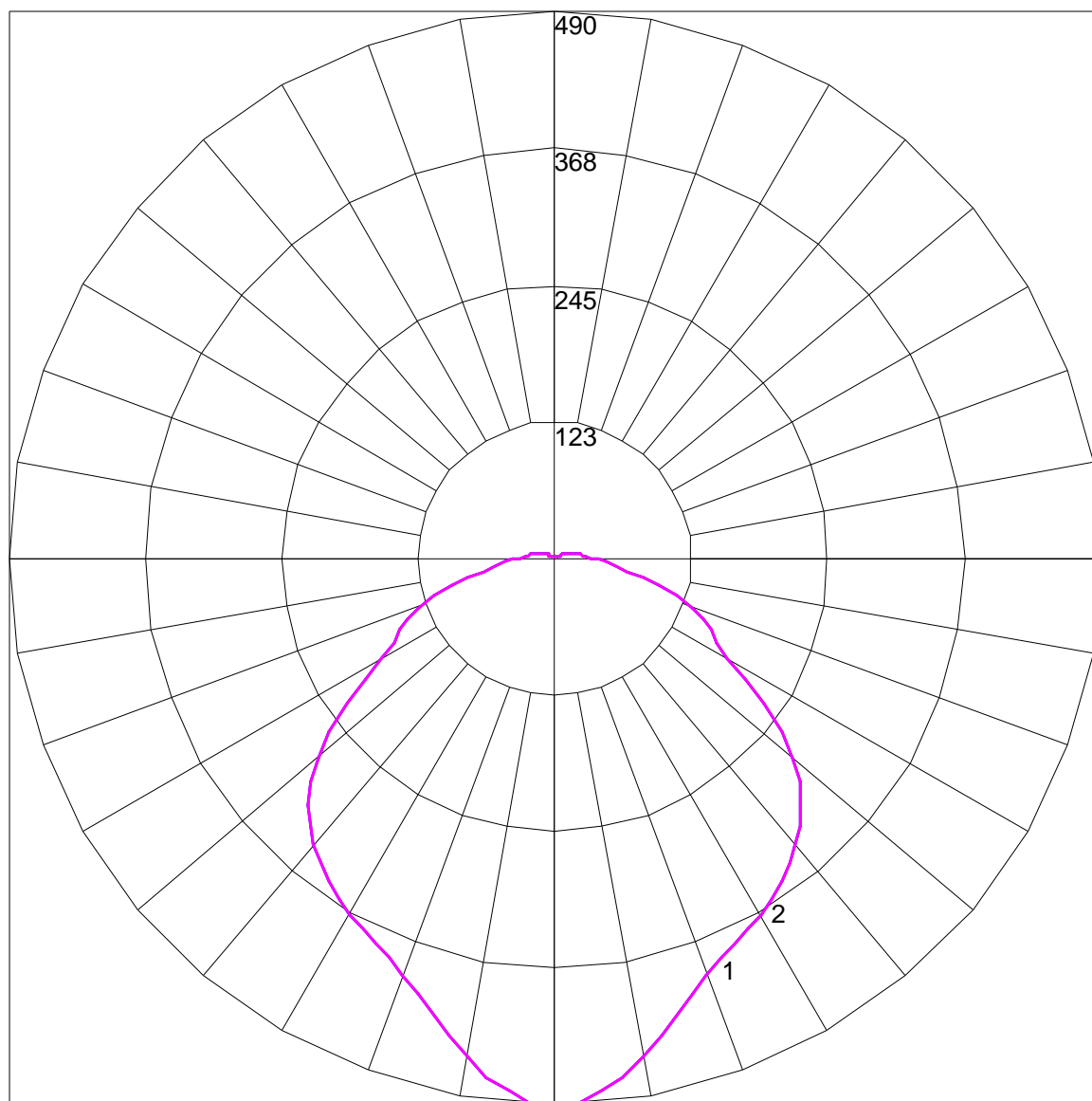
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	107	102	97	93	104	99	95	91	94	91	88	89	87	84	85	83	81	79
2	97	88	81	75	94	86	80	74	82	76	72	78	74	70	74	71	67	65
3	88	78	69	62	85	76	68	62	72	65	60	69	63	58	66	61	57	55
4	81	69	60	53	78	67	59	52	64	57	51	61	55	50	58	53	49	46
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	53	47	42	40
6	69	55	46	40	66	54	45	39	52	44	39	50	43	38	48	42	37	35
7	64	50	41	35	62	49	41	35	47	39	34	45	38	34	43	38	33	31
8	59	45	37	31	57	45	36	31	43	36	30	41	35	30	40	34	30	28
9	55	42	33	28	54	41	33	28	40	32	27	38	32	27	37	31	27	25
10	52	38	31	25	50	38	30	25	37	30	25	35	29	24	34	28	24	22

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00345\_6 ~ PS1408GV-27L35K-EX-FJ2.IES

POLAR GRAPH



Maximum Candela = 490.006 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)