



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : QUAD-30-LED35-SO-D1-PATTERNS.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] Quad-30-LED35-SO-D1  
 [TESTLAB] Intertek  
 [ISSUE DATE] March 13, 2017  
 [MANUFAC] Prudential Lighting

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8059
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	135
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.17 ft
Luminous Width (90-270)	3.17 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2790	2802	2814
55	2694	2711	2723
65	2555	2585	2596
75	2367	2418	2420
85	2076	2142	2126

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : QUAD-30-LED35-SO-D1-PATTERNS.IES**

**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>	2773.903	2773.903	2773.903	2773.903	2773.903	2773.903	2773.903	2773.903	2773.903	2773.903
<b>2.5</b>	2771.127	2771.235	2770.420	2770.164	2771.073	2770.164	2770.420	2771.235	2771.127	2771.235
<b>5.0</b>	2761.141	2761.591	2761.497	2760.376	2761.839	2760.376	2761.497	2761.591	2761.141	2761.591
<b>7.5</b>	2745.265	2745.567	2745.648	2745.382	2746.314	2745.382	2745.648	2745.567	2745.265	2745.567
<b>10.0</b>	2722.806	2723.094	2723.382	2722.999	2724.079	2722.999	2723.382	2723.094	2722.806	2723.094
<b>12.5</b>	2694.379	2694.469	2694.690	2695.333	2696.449	2695.333	2694.690	2694.469	2694.379	2694.469
<b>15.0</b>	2660.125	2660.058	2661.088	2661.673	2663.352	2661.673	2661.088	2660.058	2660.125	2660.058
<b>17.5</b>	2619.670	2620.147	2621.142	2622.213	2623.891	2622.213	2621.142	2620.147	2619.670	2620.147
<b>20.0</b>	2573.626	2574.567	2576.389	2576.394	2579.305	2576.394	2576.389	2574.567	2573.626	2574.567
<b>22.5</b>	2522.353	2522.556	2524.131	2525.557	2528.068	2525.557	2524.131	2522.556	2522.353	2522.556
<b>25.0</b>	2464.861	2465.716	2467.539	2469.757	2472.070	2469.757	2467.539	2465.716	2464.861	2465.716
<b>27.5</b>	2402.941	2403.549	2405.515	2407.909	2411.401	2407.909	2405.515	2403.549	2402.941	2403.549
<b>30.0</b>	2333.088	2336.791	2338.560	2340.954	2345.674	2340.954	2338.560	2336.791	2333.088	2336.791
<b>32.5</b>	2259.936	2264.904	2267.410	2270.277	2274.952	2270.277	2267.410	2264.904	2259.936	2264.904
<b>35.0</b>	2184.075	2187.720	2191.932	2194.983	2198.808	2194.983	2191.932	2187.720	2184.075	2187.720
<b>37.5</b>	2105.788	2106.900	2111.242	2114.887	2118.424	2114.887	2111.242	2106.900	2105.788	2106.900
<b>40.0</b>	2023.069	2022.597	2027.704	2031.529	2034.828	2031.529	2027.704	2022.597	2023.069	2022.597
<b>42.5</b>	1934.986	1934.343	1939.288	1943.595	1947.420	1943.595	1939.288	1934.343	1934.986	1934.343
<b>45.0</b>	1839.897	1841.796	1847.511	1851.696	1855.557	1851.696	1847.511	1841.796	1839.897	1841.796
<b>47.5</b>	1742.265	1745.797	1751.535	1757.223	1759.495	1757.223	1751.535	1745.797	1742.265	1745.797
<b>50.0</b>	1643.926	1647.693	1653.088	1659.699	1660.621	1659.699	1653.088	1647.693	1643.926	1647.693
<b>52.5</b>	1544.166	1546.893	1552.540	1558.638	1559.812	1558.638	1552.540	1546.893	1544.166	1546.893
<b>55.0</b>	1441.120	1443.033	1450.048	1455.444	1456.447	1455.444	1450.048	1443.033	1441.120	1443.033
<b>57.5</b>	1334.412	1337.431	1344.802	1350.738	1350.063	1350.738	1344.802	1337.431	1334.412	1337.431
<b>60.0</b>	1225.714	1230.066	1236.726	1244.016	1242.000	1244.016	1236.726	1230.066	1225.714	1230.066
<b>62.5</b>	1116.288	1121.890	1127.907	1134.981	1133.001	1134.981	1127.907	1121.890	1116.288	1121.890
<b>65.0</b>	1006.951	1013.931	1018.741	1024.591	1023.124	1024.591	1018.741	1013.931	1006.951	1013.931
<b>67.5</b>	898.506	903.955	909.751	915.250	912.388	915.250	909.751	903.955	898.506	903.955
<b>70.0</b>	789.187	794.155	801.216	805.644	801.643	805.644	801.216	794.155	789.187	794.155
<b>72.5</b>	679.779	686.133	691.191	696.865	692.725	696.865	691.191	686.133	679.779	686.133
<b>75.0</b>	571.333	580.261	583.569	588.870	584.118	588.870	583.569	580.261	571.333	580.261
<b>77.5</b>	466.501	474.705	479.106	481.410	477.639	481.410	479.106	474.705	466.501	474.705
<b>80.0</b>	364.306	371.011	374.656	376.452	372.006	376.452	374.656	371.011	364.306	371.011
<b>82.5</b>	265.293	269.842	272.529	274.297	270.090	274.297	272.529	269.842	265.293	269.842
<b>85.0</b>	168.741	172.561	174.114	176.431	172.822	176.431	174.114	172.561	168.741	172.561
<b>87.5</b>	77.179	80.451	80.986	83.592	80.419	83.592	80.986	80.451	77.179	80.451
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>92.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>97.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>102.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>107.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>112.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>117.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>122.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>127.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>132.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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	2773.903	2773.903	2773.903	2773.903	2773.903	2773.903	2773.903
2.5	2770.420	2770.164	2771.073	2770.164	2770.420	2771.235	2771.127
5.0	2761.497	2760.376	2761.839	2760.376	2761.497	2761.591	2761.141
7.5	2745.648	2745.382	2746.314	2745.382	2745.648	2745.567	2745.265
10.0	2723.382	2722.999	2724.079	2722.999	2723.382	2723.094	2722.806
12.5	2694.690	2695.333	2696.449	2695.333	2694.690	2694.469	2694.379
15.0	2661.088	2661.673	2663.352	2661.673	2661.088	2660.058	2660.125
17.5	2621.142	2622.213	2623.891	2622.213	2621.142	2620.147	2619.670
20.0	2576.389	2576.394	2579.305	2576.394	2576.389	2574.567	2573.626
22.5	2524.131	2525.557	2528.068	2525.557	2524.131	2522.556	2522.353
25.0	2467.539	2469.757	2472.070	2469.757	2467.539	2465.716	2464.861
27.5	2405.515	2407.909	2411.401	2407.909	2405.515	2403.549	2402.941
30.0	2338.560	2340.954	2345.674	2340.954	2338.560	2336.791	2333.088
32.5	2267.410	2270.277	2274.952	2270.277	2267.410	2264.904	2259.936
35.0	2191.932	2194.983	2198.808	2194.983	2191.932	2187.720	2184.075
37.5	2111.242	2114.887	2118.424	2114.887	2111.242	2106.900	2105.788
40.0	2027.704	2031.529	2034.828	2031.529	2027.704	2022.597	2023.069
42.5	1939.288	1943.595	1947.420	1943.595	1939.288	1934.343	1934.986
45.0	1847.511	1851.696	1855.557	1851.696	1847.511	1841.796	1839.897
47.5	1751.535	1757.223	1759.495	1757.223	1751.535	1745.797	1742.265
50.0	1653.088	1659.699	1660.621	1659.699	1653.088	1647.693	1643.926
52.5	1552.540	1558.638	1559.812	1558.638	1552.540	1546.893	1544.166
55.0	1450.048	1455.444	1456.447	1455.444	1450.048	1443.033	1441.120
57.5	1344.802	1350.738	1350.063	1350.738	1344.802	1337.431	1334.412
60.0	1236.726	1244.016	1242.000	1244.016	1236.726	1230.066	1225.714
62.5	1127.907	1134.981	1133.001	1134.981	1127.907	1121.890	1116.288
65.0	1018.741	1024.591	1023.124	1024.591	1018.741	1013.931	1006.951
67.5	909.751	915.250	912.388	915.250	909.751	903.955	898.506
70.0	801.216	805.644	801.643	805.644	801.216	794.155	789.187
72.5	691.191	696.865	692.725	696.865	691.191	686.133	679.779
75.0	583.569	588.870	584.118	588.870	583.569	580.261	571.333
77.5	479.106	481.410	477.639	481.410	479.106	474.705	466.501
80.0	374.656	376.452	372.006	376.452	374.656	371.011	364.306

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**CANDELA TABULATION - (Cont.)**

82.5	272.529	274.297	270.090	274.297	272.529	269.842	265.293
85.0	174.114	176.431	172.822	176.431	174.114	172.561	168.741
87.5	80.986	83.592	80.419	83.592	80.986	80.451	77.179
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1013.35	N.A.	12.60
0-30	2150.61	N.A.	26.70
0-40	3521.55	N.A.	43.70
0-60	6241.3	N.A.	77.40
0-80	7864.95	N.A.	97.60
0-90	8058.61	N.A.	100.00
10-90	7796.24	N.A.	96.70
20-40	2508.2	N.A.	31.10
20-50	3932.81	N.A.	48.80
40-70	3727.39	N.A.	46.30
60-80	1623.65	N.A.	20.10
70-80	616.01	N.A.	7.60
80-90	193.66	N.A.	2.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	8058.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	262.38
10-20	750.98
20-30	1137.26
30-40	1370.94
40-50	1424.62
50-60	1295.14
60-70	1007.64
70-80	616.01
80-90	193.66
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

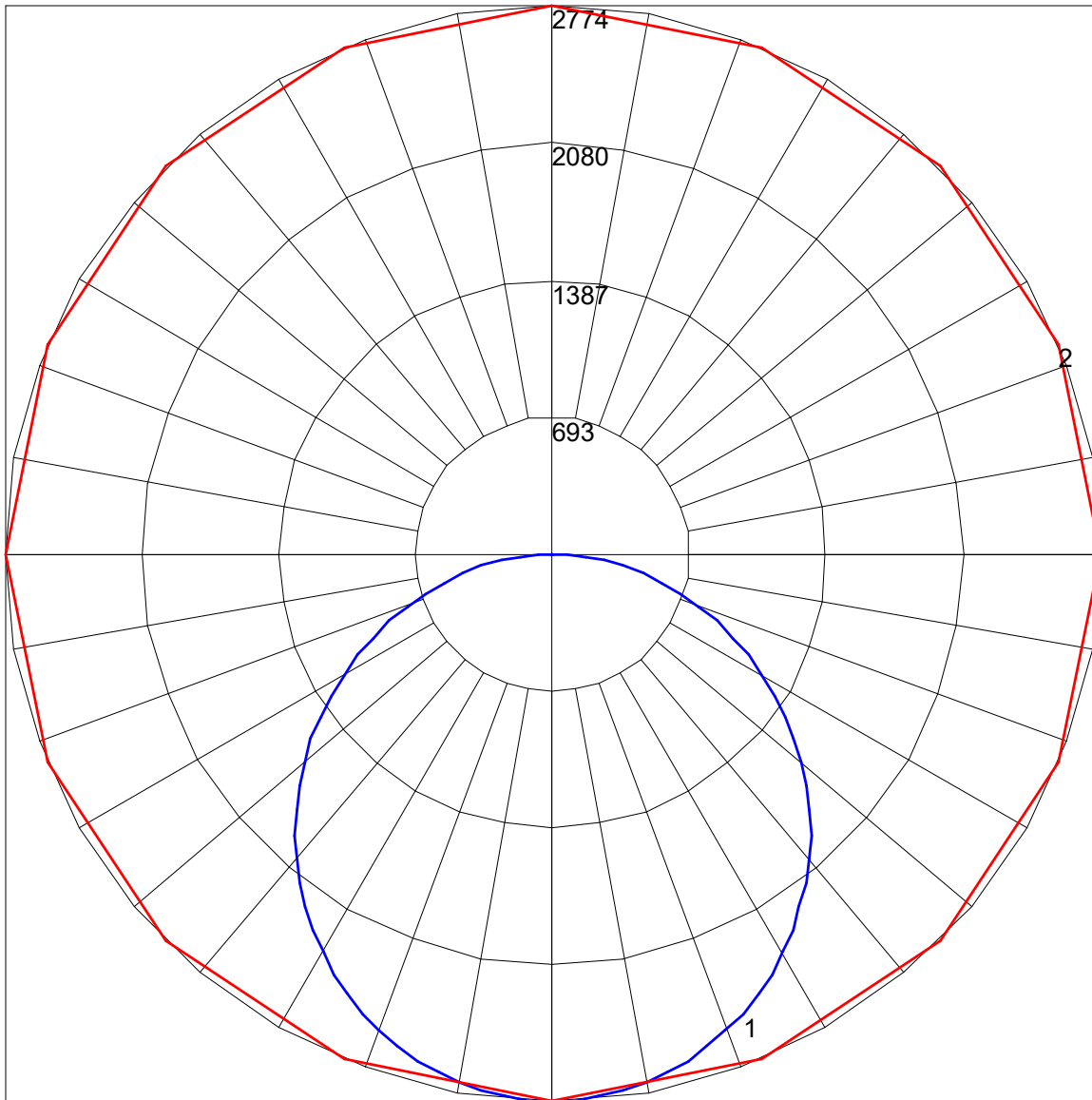
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

POLAR GRAPH



Maximum Candela = 2773.903 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)