



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : QUAD-30-LED35-HO-D9.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] Quad-30-LED35-HO-D9  
 [TESTLAB] Intertek  
 [ISSUE DATE] March 9, 2017  
 [MANUFAC] Prudential Lighting

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	23144
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	270
Ballast Factor	1.00
CIE Type	Semi-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)	2.21 ft
Luminous Width (90-270)	2.21 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13804	13769	13708
55	13281	13219	13127
65	12582	12485	12406
75	11607	11458	11403
85	10029	9735	9867

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**CANDELA TABULATION**

	<b>0.0</b>	<b>22.5</b>	<b>45.0</b>	<b>67.5</b>	<b>90.0</b>	<b>112.5</b>	<b>135.0</b>	<b>157.5</b>	<b>180.0</b>	<b>202.5</b>
<b>0.0</b>	6716.155	6716.155	6716.155	6716.155	6716.155	6716.155	6716.155	6716.155	6716.155	6716.155
<b>2.5</b>	6707.648	6709.345	6707.417	6705.130	6706.235	6705.130	6707.417	6709.345	6707.648	6709.345
<b>5.0</b>	6683.902	6684.056	6682.334	6681.743	6679.635	6681.743	6682.334	6684.056	6683.902	6684.056
<b>7.5</b>	6642.859	6643.270	6642.191	6641.214	6640.494	6641.214	6642.191	6643.270	6642.859	6643.270
<b>10.0</b>	6586.499	6587.501	6584.134	6583.260	6581.616	6583.260	6584.134	6587.501	6586.499	6587.501
<b>12.5</b>	6514.513	6516.723	6512.508	6511.403	6509.167	6511.403	6512.508	6516.723	6514.513	6516.723
<b>15.0</b>	6432.067	6430.911	6428.238	6424.846	6424.126	6424.846	6428.238	6430.911	6432.067	6430.911
<b>17.5</b>	6331.709	6331.940	6329.833	6323.793	6322.200	6323.793	6329.833	6331.940	6331.709	6331.940
<b>20.0</b>	6220.813	6219.040	6215.828	6210.842	6205.727	6210.842	6215.828	6219.040	6220.813	6219.040
<b>22.5</b>	6093.984	6093.110	6087.944	6080.234	6077.973	6080.234	6087.944	6093.110	6093.984	6093.110
<b>25.0</b>	5955.204	5953.919	5947.160	5941.300	5938.576	5941.300	5947.160	5953.919	5955.204	5953.919
<b>27.5</b>	5803.368	5800.773	5791.700	5784.736	5780.135	5784.736	5791.700	5800.773	5803.368	5800.773
<b>30.0</b>	5635.265	5634.930	5627.298	5619.356	5613.831	5619.356	5627.298	5634.930	5635.265	5634.930
<b>32.5</b>	5459.271	5458.911	5449.454	5440.536	5440.047	5440.536	5449.454	5458.911	5459.271	5458.911
<b>35.0</b>	5276.493	5273.460	5263.283	5250.921	5252.206	5250.921	5263.283	5273.460	5276.493	5273.460
<b>37.5</b>	5080.890	5076.007	5064.442	5052.389	5053.082	5052.389	5064.442	5076.007	5080.890	5076.007
<b>40.0</b>	4877.192	4868.942	4857.711	4844.501	4840.338	4844.501	4857.711	4868.942	4877.192	4868.942
<b>42.5</b>	4655.272	4652.676	4637.976	4626.051	4624.201	4626.051	4637.976	4652.676	4655.272	4652.676
<b>45.0</b>	4426.491	4429.112	4415.183	4398.632	4395.625	4398.632	4415.183	4429.112	4426.491	4429.112
<b>47.5</b>	4192.492	4194.086	4180.233	4164.608	4160.676	4164.608	4180.233	4194.086	4192.492	4194.086
<b>50.0</b>	3951.889	3950.732	3937.831	3924.570	3916.757	3924.570	3937.831	3950.732	3951.889	3950.732
<b>52.5</b>	3705.606	3703.241	3691.317	3676.513	3668.829	3676.513	3691.317	3703.241	3705.606	3703.241
<b>55.0</b>	3454.440	3452.538	3438.274	3422.777	3414.528	3422.777	3438.274	3452.538	3454.440	3452.538
<b>57.5</b>	3193.765	3194.947	3179.835	3163.850	3157.425	3163.850	3179.835	3194.947	3193.765	3194.947
<b>60.0</b>	2933.038	2934.554	2920.368	2903.971	2900.759	2903.971	2920.368	2934.554	2933.038	2934.554
<b>62.5</b>	2672.235	2670.024	2656.378	2644.556	2639.082	2644.556	2656.378	2670.024	2672.235	2670.024
<b>65.0</b>	2411.328	2404.338	2392.696	2378.869	2377.610	2378.869	2392.696	2404.338	2411.328	2404.338
<b>67.5</b>	2146.438	2142.249	2128.140	2115.727	2115.007	2115.727	2128.140	2142.249	2146.438	2142.249
<b>70.0</b>	1879.672	1877.205	1860.834	1851.299	1852.559	1851.299	1860.834	1877.205	1879.672	1877.205
<b>72.5</b>	1618.149	1614.448	1599.414	1591.293	1592.835	1591.293	1599.414	1614.448	1618.149	1614.448
<b>75.0</b>	1362.306	1356.343	1344.855	1337.248	1338.430	1337.248	1344.855	1356.343	1362.306	1356.343
<b>77.5</b>	1111.345	1103.558	1091.505	1087.650	1087.290	1087.650	1091.505	1103.558	1111.345	1103.558
<b>80.0</b>	863.546	857.275	844.708	842.472	841.983	842.472	844.708	857.275	863.546	857.275
<b>82.5</b>	621.914	621.400	607.805	605.852	611.095	605.852	607.805	621.400	621.914	621.400
<b>85.0</b>	396.397	394.752	384.755	385.937	389.997	385.937	384.755	394.752	396.397	394.752
<b>87.5</b>	188.098	188.612	173.552	176.019	177.587	176.019	173.552	188.612	188.098	188.612
<b>90.0</b>	189.589	195.628	169.851	90.747	22.667	90.747	169.851	195.628	189.589	195.628
<b>92.5</b>	257.334	239.344	180.542	104.034	47.622	104.034	180.542	239.344	257.334	239.344
<b>95.0</b>	258.311	243.353	190.925	122.101	85.093	122.101	190.925	243.353	258.311	243.353
<b>97.5</b>	287.429	272.163	217.525	147.698	116.395	147.698	217.525	272.163	287.429	272.163
<b>100.0</b>	322.072	305.881	251.038	179.669	157.541	179.669	251.038	305.881	322.072	305.881
<b>102.5</b>	359.235	344.123	284.936	214.466	199.766	214.466	284.936	344.123	359.235	344.123
<b>105.0</b>	399.609	384.266	320.993	253.428	238.856	253.428	320.993	384.266	399.609	384.266
<b>107.5</b>	436.849	418.447	358.258	294.548	284.396	294.548	358.258	418.447	436.849	418.447
<b>110.0</b>	471.312	453.811	398.556	337.878	331.196	337.878	398.556	453.811	471.312	453.811
<b>112.5</b>	506.573	491.153	438.108	383.572	363.269	383.572	438.108	491.153	506.573	491.153
<b>115.0</b>	549.029	532.864	482.209	426.440	423.536	426.440	482.209	532.864	549.029	532.864
<b>117.5</b>	593.773	577.479	527.184	474.422	468.203	474.422	527.184	577.479	593.773	577.479
<b>120.0</b>	637.437	625.255	571.208	520.990	508.423	520.990	571.208	625.255	637.437	625.255
<b>122.5</b>	682.155	669.588	620.398	577.633	554.452	577.633	620.398	669.588	682.155	669.588
<b>125.0</b>	725.151	713.612	668.868	621.529	616.003	621.529	668.868	713.612	725.151	713.612
<b>127.5</b>	772.619	759.769	714.897	666.401	650.004	666.401	714.897	759.769	772.619	759.769
<b>130.0</b>	818.082	806.158	765.577	717.672	701.302	717.672	765.577	806.158	818.082	806.158
<b>132.5</b>	864.368	851.004	819.342	762.416	760.669	762.416	819.342	851.004	864.368	851.004

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**CANDELA TABULATION - (Cont.)**

135.0	908.829	894.437	862.338	809.704	807.468	809.704	862.338	894.437	908.829	894.437
137.5	949.255	935.403	903.972	859.434	843.988	859.434	903.972	935.403	949.255	935.403
140.0	992.020	975.880	945.040	918.287	890.505	918.287	945.040	975.880	992.020	975.880
142.5	1027.614	1015.356	984.618	965.832	949.589	965.832	984.618	1015.356	1027.614	1015.356
145.0	1066.293	1051.541	1028.642	1002.685	1000.912	1002.685	1028.642	1051.541	1066.293	1051.541
147.5	1098.341	1086.956	1066.781	1040.953	1035.196	1040.953	1066.781	1086.956	1098.341	1086.956
150.0	1133.241	1119.646	1100.474	1075.468	1070.405	1075.468	1100.474	1119.646	1133.241	1119.646
152.5	1162.025	1151.771	1130.903	1114.558	1101.296	1114.558	1130.903	1151.771	1162.025	1151.771
155.0	1192.686	1180.247	1163.310	1148.096	1142.057	1148.096	1163.310	1180.247	1192.686	1180.247
157.5	1217.280	1208.003	1190.912	1176.006	1174.798	1176.006	1190.912	1208.003	1217.280	1208.003
160.0	1238.432	1232.264	1217.769	1202.554	1200.036	1202.554	1217.769	1232.264	1238.432	1232.264
162.5	1259.300	1253.183	1244.137	1230.901	1227.303	1230.901	1244.137	1253.183	1259.300	1253.183
165.0	1277.110	1271.970	1262.615	1253.389	1251.950	1253.389	1262.615	1271.970	1277.110	1271.970
167.5	1291.014	1287.647	1280.991	1274.000	1276.879	1274.000	1280.991	1287.647	1291.014	1287.647
170.0	1303.555	1301.448	1295.023	1288.110	1291.888	1288.110	1295.023	1301.448	1303.555	1301.448
172.5	1312.293	1310.803	1307.436	1302.450	1302.065	1302.450	1307.436	1310.803	1312.293	1310.803
175.0	1319.926	1319.027	1314.529	1313.167	1315.634	1313.167	1314.529	1319.027	1319.926	1319.027
177.5	1324.038	1322.522	1320.851	1318.487	1318.950	1318.487	1320.851	1322.522	1324.038	1322.522
180.0	1321.777	1321.777	1321.777	1321.777	1321.777	1321.777	1321.777	1321.777	1321.777	1321.777

**Vert. Horizontal Angles**

	<b>225.0</b>	<b>247.5</b>	<b>270.0</b>	<b>292.5</b>	<b>315.0</b>	<b>337.5</b>	<b>360.0</b>
0.0	6716.155	6716.155	6716.155	6716.155	6716.155	6716.155	6716.155
2.5	6707.417	6705.130	6706.235	6705.130	6707.417	6709.345	6707.648
5.0	6682.334	6681.743	6679.635	6681.743	6682.334	6684.056	6683.902
7.5	6642.191	6641.214	6640.494	6641.214	6642.191	6643.270	6642.859
10.0	6584.134	6583.260	6581.616	6583.260	6584.134	6587.501	6586.499
12.5	6512.508	6511.403	6509.167	6511.403	6512.508	6516.723	6514.513
15.0	6428.238	6424.846	6424.126	6424.846	6428.238	6430.911	6432.067
17.5	6329.833	6323.793	6322.200	6323.793	6329.833	6331.940	6331.709
20.0	6215.828	6210.842	6205.727	6210.842	6215.828	6219.040	6220.813
22.5	6087.944	6080.234	6077.973	6080.234	6087.944	6093.110	6093.984
25.0	5947.160	5941.300	5938.576	5941.300	5947.160	5953.919	5955.204
27.5	5791.700	5784.736	5780.135	5784.736	5791.700	5800.773	5803.368
30.0	5627.298	5619.356	5613.831	5619.356	5627.298	5634.930	5635.265
32.5	5449.454	5440.536	5440.047	5440.536	5449.454	5458.911	5459.271
35.0	5263.283	5250.921	5252.206	5250.921	5263.283	5273.460	5276.493
37.5	5064.442	5052.389	5053.082	5052.389	5064.442	5076.007	5080.890
40.0	4857.711	4844.501	4840.338	4844.501	4857.711	4868.942	4877.192
42.5	4637.976	4626.051	4624.201	4626.051	4637.976	4652.676	4655.272
45.0	4415.183	4398.632	4395.625	4398.632	4415.183	4429.112	4426.491
47.5	4180.233	4164.608	4160.676	4164.608	4180.233	4194.086	4192.492
50.0	3937.831	3924.570	3916.757	3924.570	3937.831	3950.732	3951.889
52.5	3691.317	3676.513	3668.829	3676.513	3691.317	3703.241	3705.606
55.0	3438.274	3422.777	3414.528	3422.777	3438.274	3452.538	3454.440
57.5	3179.835	3163.850	3157.425	3163.850	3179.835	3194.947	3193.765
60.0	2920.368	2903.971	2900.759	2903.971	2920.368	2934.554	2933.038
62.5	2656.378	2644.556	2639.082	2644.556	2656.378	2670.024	2672.235
65.0	2392.696	2378.869	2377.610	2378.869	2392.696	2404.338	2411.328
67.5	2128.140	2115.727	2115.007	2115.727	2128.140	2142.249	2146.438
70.0	1860.834	1851.299	1852.559	1851.299	1860.834	1877.205	1879.672
72.5	1599.414	1591.293	1592.835	1591.293	1599.414	1614.448	1618.149
75.0	1344.855	1337.248	1338.430	1337.248	1344.855	1356.343	1362.306
77.5	1091.505	1087.650	1087.290	1087.650	1091.505	1103.558	1111.345
80.0	844.708	842.472	841.983	842.472	844.708	857.275	863.546

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**CANDELA TABULATION - (Cont.)**

82.5	607.805	605.852	611.095	605.852	607.805	621.400	621.914
85.0	384.755	385.937	389.997	385.937	384.755	394.752	396.397
87.5	173.552	176.019	177.587	176.019	173.552	188.612	188.098
90.0	169.851	90.747	22.667	90.747	169.851	195.628	189.589
92.5	180.542	104.034	47.622	104.034	180.542	239.344	257.334
95.0	190.925	122.101	85.093	122.101	190.925	243.353	258.311
97.5	217.525	147.698	116.395	147.698	217.525	272.163	287.429
100.0	251.038	179.669	157.541	179.669	251.038	305.881	322.072
102.5	284.936	214.466	199.766	214.466	284.936	344.123	359.235
105.0	320.993	253.428	238.856	253.428	320.993	384.266	399.609
107.5	358.258	294.548	284.396	294.548	358.258	418.447	436.849
110.0	398.556	337.878	331.196	337.878	398.556	453.811	471.312
112.5	438.108	383.572	363.269	383.572	438.108	491.153	506.573
115.0	482.209	426.440	423.536	426.440	482.209	532.864	549.029
117.5	527.184	474.422	468.203	474.422	527.184	577.479	593.773
120.0	571.208	520.990	508.423	520.990	571.208	625.255	637.437
122.5	620.398	577.633	554.452	577.633	620.398	669.588	682.155
125.0	668.868	621.529	616.003	621.529	668.868	713.612	725.151
127.5	714.897	666.401	650.004	666.401	714.897	759.769	772.619
130.0	765.577	717.672	701.302	717.672	765.577	806.158	818.082
132.5	819.342	762.416	760.669	762.416	819.342	851.004	864.368
135.0	862.338	809.704	807.468	809.704	862.338	894.437	908.829
137.5	903.972	859.434	843.988	859.434	903.972	935.403	949.255
140.0	945.040	918.287	890.505	918.287	945.040	975.880	992.020
142.5	984.618	965.832	949.589	965.832	984.618	1015.356	1027.614
145.0	1028.642	1002.685	1000.912	1002.685	1028.642	1051.541	1066.293
147.5	1066.781	1040.953	1035.196	1040.953	1066.781	1086.956	1098.341
150.0	1100.474	1075.468	1070.405	1075.468	1100.474	1119.646	1133.241
152.5	1130.903	1114.558	1101.296	1114.558	1130.903	1151.771	1162.025
155.0	1163.310	1148.096	1142.057	1148.096	1163.310	1180.247	1192.686
157.5	1190.912	1176.006	1174.798	1176.006	1190.912	1208.003	1217.280
160.0	1217.769	1202.554	1200.036	1202.554	1217.769	1232.264	1238.432
162.5	1244.137	1230.901	1227.303	1230.901	1244.137	1253.183	1259.300
165.0	1262.615	1253.389	1251.950	1253.389	1262.615	1271.970	1277.110
167.5	1280.991	1274.000	1276.879	1274.000	1280.991	1287.647	1291.014
170.0	1295.023	1288.110	1291.888	1288.110	1295.023	1301.448	1303.555
172.5	1307.436	1302.450	1302.065	1302.450	1307.436	1310.803	1312.293
175.0	1314.529	1313.167	1315.634	1313.167	1314.529	1319.027	1319.926
177.5	1320.851	1318.487	1318.950	1318.487	1320.851	1322.522	1324.038
180.0	1321.777	1321.777	1321.777	1321.777	1321.777	1321.777	1321.777

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2448.53	N.A.	10.60
0-30	5188.48	N.A.	22.40
0-40	8480.19	N.A.	36.60
0-60	14955.03	N.A.	64.60
0-80	18747.95	N.A.	81.00
0-90	19204.55	N.A.	83.00
10-90	18569.76	N.A.	80.20
20-40	6031.66	N.A.	26.10
20-50	9435.04	N.A.	40.80
40-70	8842.98	N.A.	38.20
60-80	3792.91	N.A.	16.40
70-80	1424.77	N.A.	6.20
80-90	456.60	N.A.	2.00
90-110	543.07	N.A.	2.30
90-120	1021.29	N.A.	4.40
90-130	1618.69	N.A.	7.00
90-150	2921.81	N.A.	12.60
90-180	3939.39	N.A.	17.00
110-180	3396.32	N.A.	14.70
0-180	23143.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	634.79
10-20	1813.74
20-30	2739.95
30-40	3291.71
40-50	3403.39
50-60	3071.45
60-70	2368.14
70-80	1424.77
80-90	456.60
90-100	205.35
100-110	337.72
110-120	478.22
120-130	597.40
130-140	660.26
140-150	642.86
150-160	536.27
160-170	356.36
170-180	124.95

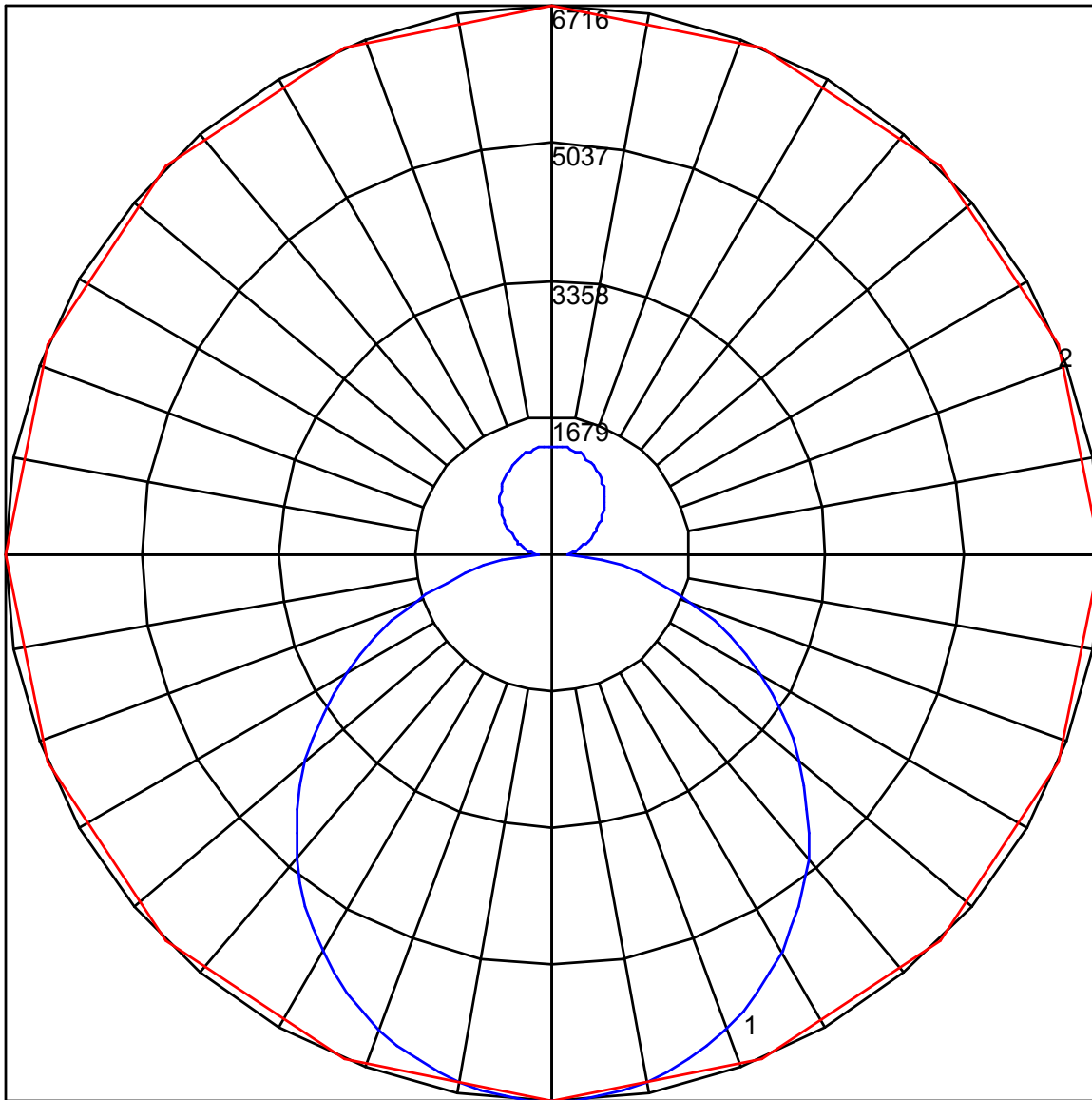
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : QUAD-30-LED35-HO-D9.IES**

**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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	83
1	105	100	96	92	100	96	92	89	89	86	83	82	80	77	76	74	72	69
2	95	87	80	75	91	84	78	72	77	72	68	72	68	64	66	63	60	57
3	87	76	68	62	83	73	66	60	68	62	57	63	58	54	58	54	51	48
4	79	67	59	52	76	65	57	51	60	54	48	56	50	46	52	47	44	41
5	73	60	51	45	69	58	50	44	54	47	42	50	44	40	47	42	38	35
6	67	54	45	39	64	52	44	38	49	42	36	45	39	35	42	37	33	31
7	62	49	40	34	59	47	39	34	44	37	32	41	35	31	39	33	30	27
8	58	45	36	30	55	43	35	30	40	34	29	38	32	28	35	30	26	24
9	54	41	33	27	52	40	32	27	37	30	26	35	29	25	33	28	24	22
10	50	38	30	25	48	36	29	24	34	28	23	32	27	22	30	25	22	20

POLAR GRAPH



Maximum Candela = 6716.155 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.)