

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00712 ~ HT1813GV-37L35K-EX-TF2-MWI.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00712\_M-37L  
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 7/17/2018  
 [UPDATE] 9/12/2018  
 [LUMCAT] HT1813GV-37L-35K-EX-TF2-MWI  
 [LUMINAIRE] Nom. 18" Diam x 13" H, High Top Pendant  
 [OTHER] Reflector: Matte White interior finish  
 [OTHER] Beam Angle: 97.4 degrees  
 [OTHER] 4" Frosted (Inside) Shallow Dome Diffuser  
 [LAMP] N/A, Gen3  
 [LAMPCAT] N/A  
 [OTHER] Total Luminaire Watts is approximate  
 [CCTMULT] 27K x 0.971, 30K x 0.985, 40K x 1.03  
 [OTHER] This report generated by Spectrum Lighting, scaled from 55L/(0.8)  
 [CRI]85+

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3160
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.50 ft (Diameter)
Luminous Width (90-270)	1.50 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00712 ~ HT1813GV-37L35K-EX-TF2-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7111	7386	7540
55	3068	3201	3346
65	2544	2545	2539
75	2249	2367	2427
85	472	630	787

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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>	1452.679	1452.679	1452.679	1452.679	1452.679	1452.679	1452.679	1452.679	1452.679	1452.679
<b>2.5</b>	1446.497	1446.647	1447.588	1448.431	1446.628	1449.889	1449.512	1450.608	1450.924	1449.940
<b>5.0</b>	1439.723	1440.646	1441.011	1441.658	1438.924	1445.296	1445.288	1446.334	1448.878	1446.988
<b>7.5</b>	1427.980	1428.745	1427.411	1429.973	1427.371	1433.637	1436.357	1437.930	1439.658	1438.915
<b>10.0</b>	1414.608	1416.406	1413.046	1416.584	1413.230	1421.377	1425.787	1426.200	1429.619	1428.929
<b>12.5</b>	1397.363	1396.726	1394.831	1397.786	1395.060	1404.707	1409.625	1410.485	1413.266	1411.965
<b>15.0</b>	1377.048	1376.504	1374.781	1377.665	1374.106	1386.704	1391.382	1390.446	1396.420	1393.449
<b>17.5</b>	1351.288	1351.952	1348.717	1351.613	1349.876	1362.804	1368.156	1366.460	1371.923	1371.006
<b>20.0</b>	1323.507	1326.361	1321.372	1324.687	1322.660	1337.484	1343.227	1340.095	1347.116	1346.879
<b>22.5</b>	1293.032	1295.898	1290.963	1294.030	1292.694	1307.957	1315.259	1312.082	1319.365	1319.642
<b>25.0</b>	1262.124	1265.017	1259.563	1263.131	1261.000	1277.908	1285.080	1281.783	1290.944	1291.385
<b>27.5</b>	1230.770	1232.816	1226.421	1229.844	1228.099	1246.735	1251.893	1250.265	1259.082	1261.672
<b>30.0</b>	1197.779	1200.170	1192.746	1196.502	1193.524	1213.957	1218.131	1217.582	1226.836	1230.776
<b>32.5</b>	1163.490	1166.530	1158.367	1162.425	1158.075	1178.578	1183.773	1184.446	1193.314	1198.602
<b>35.0</b>	1128.959	1132.677	1123.987	1128.328	1123.843	1143.773	1150.207	1151.241	1159.713	1165.498
<b>37.5</b>	1094.284	1098.467	1089.607	1094.107	1090.089	1109.670	1117.271	1118.017	1125.921	1131.629
<b>40.0</b>	1042.039	1051.601	1043.838	1055.316	1049.561	1073.784	1082.860	1083.047	1090.195	1095.138
<b>42.5</b>	981.921	988.472	989.125	998.001	1007.185	1036.189	1047.549	1047.768	1051.034	1056.968
<b>45.0</b>	826.258	862.922	858.227	908.010	876.147	948.529	963.198	957.975	976.324	963.648
<b>47.5</b>	639.603	676.362	682.231	727.852	729.925	824.438	856.715	863.265	854.138	844.079
<b>50.0</b>	490.994	518.005	525.905	560.755	558.016	661.349	685.949	670.210	699.734	670.084
<b>52.5</b>	350.559	380.899	378.449	420.110	383.715	476.973	494.166	480.070	511.688	477.519
<b>55.0</b>	289.164	298.912	301.717	314.182	315.349	365.465	384.176	379.992	384.280	372.951
<b>57.5</b>	237.765	248.630	247.653	261.402	250.536	284.019	292.364	286.786	305.045	289.475
<b>60.0</b>	213.127	217.539	217.655	221.900	220.060	238.708	247.475	246.747	253.171	247.713
<b>62.5</b>	190.031	194.559	192.749	197.784	191.319	203.826	208.608	210.853	217.687	211.925
<b>65.0</b>	176.654	178.613	176.762	178.743	176.326	185.484	190.764	193.517	196.212	194.730
<b>67.5</b>	162.585	164.786	161.902	164.182	161.158	170.184	174.219	176.691	181.089	178.804
<b>70.0</b>	143.998	146.418	145.640	147.447	145.380	154.762	160.646	161.151	164.946	164.068
<b>72.5</b>	122.255	126.401	126.609	129.654	126.188	138.032	144.599	143.482	147.887	146.116
<b>75.0</b>	95.648	101.400	100.663	105.403	103.221	117.267	123.697	123.940	125.485	121.563
<b>77.5</b>	71.158	75.182	76.288	80.838	78.212	94.066	99.149	97.369	100.316	95.009
<b>80.0</b>	47.532	49.769	52.826	56.170	54.105	69.847	73.850	72.017	73.834	69.367
<b>82.5</b>	24.868	27.794	29.783	32.219	31.162	45.648	49.275	48.592	49.231	46.212
<b>85.0</b>	6.759	8.112	9.029	11.063	11.278	22.458	25.966	25.589	25.963	24.197
<b>87.5</b>	1.066	1.090	1.633	1.429	1.756	6.011	6.429	6.835	6.881	5.435
<b>90.0</b>	0.952	0.795	0.762	0.372	0.544	0.814	0.925	0.685	0.225	0.808
<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

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**CANDELA TABULATION - (Cont.)**

127.5	0.000	0.000	0.000	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	0.000	0.000	0.000
132.5	0.000	0.000	0.000	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	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	1452.679	1452.679	1452.679	1452.679	1452.679	1452.679	1452.679
2.5	1452.419	1452.356	1452.529	1451.218	1448.595	1448.341	1446.497
5.0	1450.968	1449.100	1450.491	1447.788	1443.576	1441.851	1439.723
7.5	1442.184	1441.576	1443.147	1436.405	1431.416	1431.513	1427.980
10.0	1432.764	1431.091	1434.525	1423.937	1418.817	1419.815	1414.608
12.5	1417.353	1417.057	1419.041	1404.907	1399.414	1401.119	1397.363
15.0	1400.752	1398.924	1402.537	1384.470	1379.385	1380.712	1377.048
17.5	1377.931	1377.049	1378.055	1358.744	1353.716	1354.612	1351.288
20.0	1353.930	1351.028	1353.003	1331.792	1326.932	1327.673	1323.507
22.5	1325.953	1322.094	1322.795	1301.543	1294.615	1297.313	1293.032
25.0	1297.247	1291.697	1292.309	1269.796	1261.860	1266.716	1262.124
27.5	1266.788	1260.519	1257.981	1235.130	1227.627	1231.919	1230.770
30.0	1235.816	1228.378	1223.552	1200.122	1193.087	1197.182	1197.779
32.5	1203.922	1195.864	1188.472	1164.618	1157.821	1163.260	1163.490
35.0	1171.780	1163.174	1153.803	1129.677	1122.138	1128.918	1128.959
37.5	1139.305	1130.435	1120.781	1095.374	1085.721	1091.851	1094.284
40.0	1104.217	1094.873	1084.953	1051.560	1037.032	1047.287	1042.039
42.5	1066.416	1058.810	1041.339	999.525	971.815	972.341	981.921
45.0	978.983	951.804	963.703	876.446	845.589	865.194	826.258
47.5	851.767	838.397	816.822	706.874	656.922	669.187	639.603
50.0	683.725	642.379	658.611	547.916	502.113	499.360	490.994
52.5	490.995	449.917	483.228	394.293	374.041	382.549	350.559
55.0	375.667	362.087	358.597	312.867	296.225	294.569	289.164
57.5	296.064	280.128	293.041	257.663	248.779	250.724	237.765
60.0	249.892	243.602	245.627	225.913	219.552	217.763	213.127
62.5	214.729	210.429	214.518	199.966	198.456	197.415	190.031
65.0	195.293	193.019	193.229	182.907	181.279	179.830	176.654

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**CANDELA TABULATION - (Cont.)**

67.5	179.285	176.152	178.561	167.258	165.360	164.718	162.585
70.0	163.704	160.660	161.966	149.082	145.964	146.461	143.998
72.5	146.125	141.192	144.364	128.870	124.991	126.674	122.255
75.0	121.552	118.228	118.754	103.126	98.658	100.068	95.648
77.5	96.238	91.823	92.462	76.359	72.742	73.329	71.158
80.0	70.543	66.874	66.264	50.592	48.039	47.389	47.532
82.5	45.245	43.080	42.992	27.285	25.727	26.105	24.868
85.0	22.603	19.884	17.931	7.250	6.048	6.038	6.759
87.5	5.016	3.576	3.535	1.308	0.971	1.141	1.066
90.0	0.445	0.617	0.780	0.632	1.169	0.295	0.952
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	528.09	N.A.	16.70
0-30	1116.48	N.A.	35.30
0-40	1831.89	N.A.	58.00
0-60	2834.39	N.A.	89.70
0-80	3136.61	N.A.	99.30
0-90	3160.21	N.A.	100.00
10-90	3023.04	N.A.	95.70
20-40	1303.8	N.A.	41.30
20-50	1982.46	N.A.	62.70
40-70	1188.92	N.A.	37.60
60-80	302.22	N.A.	9.60
70-80	115.81	N.A.	3.70
80-90	23.60	N.A.	0.70
90-110	0.09	N.A.	0.00
90-120	0.09	N.A.	0.00
90-130	0.09	N.A.	0.00
90-150	0.09	N.A.	0.00
90-180	0.09	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3160.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	137.18
10-20	390.91
20-30	588.39
30-40	715.40
40-50	678.66
50-60	323.84
60-70	186.42
70-80	115.81
80-90	23.60
90-100	0.09
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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00712 ~ HT1813GV-37L35K-EX-TF2-MWI.IES

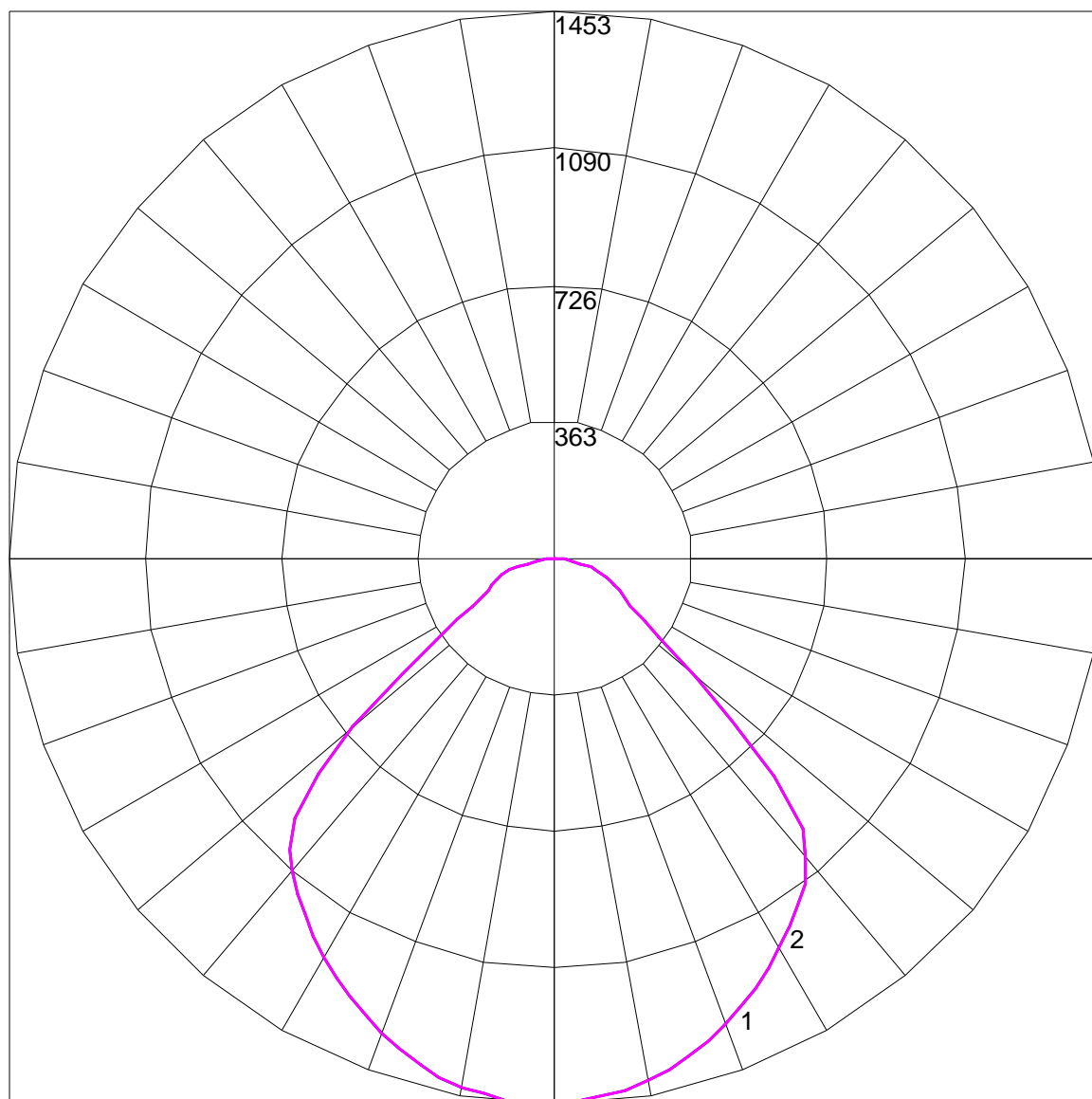
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	52
6	75	63	55	49	73	62	55	49	60	54	49	59	53	48	57	52	48	46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41
8	65	53	45	40	64	52	45	39	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31

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POLAR GRAPH



Maximum Candela = 1452.679 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)