

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00670 ~ ON1606GV-55L35K-EX-MWI.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00670  
 [TESTLAB] Spectrum Photometric Lab VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 4/20/2018  
 [UPDATE] 5/24/2018  
 [LUMCAT] ON1606GV-55L-35K-EX-MWI  
 [LUMINAIRE] Nom. 16" diam x 6.4" H, Orion luminaire  
 [OTHER] Regressed, 11" diam. frosted glass globe  
 [OTHER] Reflector: Matte White interior finish  
 [LAMP] N/A, Gen3  
 [LAMPCAT] N/A  
 [OTHER] Total Luminaire Watts is approximate  
 [OTHER] CCT Multipliers: 27K x 0.971, 30K x 0.985, 40K x 1.03  
 [OTHER] This report generated by Spectrum Lighting  
 [CRI]85+

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4264
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	39
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.33 ft (Diameter)
Luminous Width (90-270)	1.33 ft (Diameter)
Luminous Height	0.17 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8961	9021	9071
55	8554	8631	8738
65	7685	7766	7927
75	5973	6069	6229
85	4619	4682	4834

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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>	1269.544	1269.544	1269.544	1269.544	1269.544	1269.544	1269.544	1269.544	1269.544	1269.544
<b>2.5</b>	1269.476	1271.841	1272.619	1272.983	1270.140	1264.022	1266.631	1266.044	1266.339	1266.527
<b>5.0</b>	1269.468	1270.886	1270.779	1268.526	1266.860	1260.279	1262.705	1262.211	1261.236	1259.855
<b>7.5</b>	1266.061	1267.995	1265.446	1262.744	1261.145	1253.693	1256.216	1256.170	1254.127	1251.344
<b>10.0</b>	1259.161	1261.582	1258.045	1254.240	1252.190	1245.124	1247.563	1247.273	1245.630	1241.414
<b>12.5</b>	1249.982	1252.647	1246.883	1245.268	1241.817	1234.800	1236.693	1236.946	1236.397	1230.815
<b>15.0</b>	1238.870	1239.882	1233.919	1232.182	1229.867	1223.475	1225.245	1225.071	1224.074	1219.791
<b>17.5</b>	1224.303	1224.907	1218.938	1218.661	1216.045	1209.779	1213.307	1212.184	1210.460	1205.535
<b>20.0</b>	1207.323	1207.562	1203.188	1202.733	1200.529	1195.008	1199.488	1198.405	1195.473	1189.612
<b>22.5</b>	1187.420	1189.094	1183.846	1186.674	1185.163	1179.871	1184.379	1181.982	1180.036	1172.560
<b>25.0</b>	1165.874	1169.189	1163.462	1168.911	1169.907	1164.603	1166.704	1163.670	1161.952	1155.050
<b>27.5</b>	1145.002	1148.752	1144.733	1151.026	1152.794	1145.240	1147.591	1144.397	1143.208	1134.025
<b>30.0</b>	1124.437	1127.175	1126.360	1130.724	1134.546	1124.749	1125.739	1124.555	1120.518	1111.883
<b>32.5</b>	1100.568	1105.278	1102.703	1110.060	1112.427	1098.903	1102.648	1100.427	1097.143	1087.501
<b>35.0</b>	1075.511	1080.419	1078.262	1085.961	1088.417	1072.001	1075.192	1074.271	1072.053	1062.583
<b>37.5</b>	1048.021	1054.933	1049.678	1060.852	1061.153	1042.367	1046.202	1045.792	1046.765	1033.355
<b>40.0</b>	1019.873	1023.154	1020.744	1029.870	1032.620	1012.359	1015.071	1016.456	1015.650	1003.415
<b>42.5</b>	985.304	990.491	988.427	997.841	997.813	977.939	983.351	981.534	984.213	969.657
<b>45.0</b>	949.431	955.938	955.880	961.480	961.104	943.192	948.241	944.984	947.536	935.486
<b>47.5</b>	909.897	921.238	916.369	924.072	922.432	903.821	912.463	906.179	910.685	897.344
<b>50.0</b>	869.876	878.002	876.469	883.392	883.325	864.224	871.072	866.897	870.111	858.988
<b>52.5</b>	824.404	834.443	831.339	841.227	839.685	819.350	828.965	824.261	829.055	816.426
<b>55.0</b>	778.546	787.576	785.609	795.493	795.347	774.294	784.086	781.140	783.399	773.561
<b>57.5</b>	728.137	740.207	735.356	747.638	746.531	727.083	739.003	734.064	737.122	724.857
<b>60.0</b>	677.441	686.317	684.055	695.694	697.294	678.497	687.083	686.650	687.218	675.569
<b>62.5</b>	620.685	631.694	627.442	640.315	639.424	620.653	634.813	631.050	636.094	621.061
<b>65.0</b>	563.452	571.657	569.388	579.551	581.190	562.104	576.020	575.104	579.786	566.097
<b>67.5</b>	500.809	511.017	506.111	517.833	518.766	500.196	516.941	513.600	522.146	508.592
<b>70.0</b>	438.421	447.443	443.389	454.905	456.337	438.653	454.498	452.101	460.325	450.333
<b>72.5</b>	377.805	385.372	382.242	394.107	393.833	378.371	392.626	390.657	399.443	388.989
<b>75.0</b>	318.901	328.678	324.019	335.569	332.564	320.422	334.591	330.256	340.825	329.777
<b>77.5</b>	267.979	274.534	272.254	282.303	281.029	268.701	278.669	277.527	285.474	277.035
<b>80.0</b>	220.084	227.421	224.743	233.593	231.330	221.245	232.311	227.109	236.541	228.118
<b>82.5</b>	182.439	184.460	184.695	192.564	191.505	182.835	188.747	188.170	192.680	188.163
<b>85.0</b>	147.061	150.422	149.047	156.920	153.895	147.327	154.798	151.195	156.794	151.621
<b>87.5</b>	117.741	119.786	119.799	126.573	124.706	116.723	123.260	121.380	124.976	121.604
<b>90.0</b>	91.908	95.056	94.722	99.309	97.948	90.772	98.032	94.347	98.407	95.402
<b>92.5</b>	73.362	73.975	74.567	78.790	78.121	71.259	75.642	74.969	76.788	75.051
<b>95.0</b>	56.362	58.075	57.640	61.396	60.150	54.750	59.161	57.167	60.438	57.549
<b>97.5</b>	41.979	44.069	43.814	47.412	46.433	41.666	44.305	42.861	45.925	43.637
<b>100.0</b>	29.765	32.248	31.942	34.658	33.768	30.470	32.192	30.476	33.005	31.402
<b>102.5</b>	20.553	22.553	21.640	23.845	23.013	21.024	21.542	21.473	22.764	20.909
<b>105.0</b>	13.081	14.909	14.080	13.583	14.454	13.233	12.884	13.811	14.437	12.823
<b>107.5</b>	7.565	8.947	8.305	8.277	9.101	6.706	6.789	8.048	8.377	6.773
<b>110.0</b>	4.011	4.306	4.929	3.983	5.252	3.356	3.570	4.140	3.642	3.459
<b>112.5</b>	2.280	2.266	2.806	2.629	3.235	2.000	1.877	2.429	1.752	2.050
<b>115.0</b>	1.460	1.877	1.930	1.669	2.056	1.415	1.596	1.401	1.184	1.482
<b>117.5</b>	1.337	1.711	1.586	1.492	1.709	1.218	1.370	1.030	0.925	1.393
<b>120.0</b>	1.400	1.662	1.527	1.376	1.451	1.397	1.186	0.941	0.780	1.418
<b>122.5</b>	1.577	1.681	1.561	1.400	1.265	1.727	1.053	1.073	0.845	1.496
<b>125.0</b>	1.522	1.728	1.477	1.427	1.351	1.589	0.950	1.088	0.969	1.385

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**CANDELA TABULATION - (Cont.)**

127.5	1.350	1.800	1.362	1.437	1.620	1.304	1.202	1.025	1.191	1.208
130.0	1.356	1.880	1.361	1.447	1.620	1.398	1.634	0.997	1.433	1.192
132.5	1.433	1.738	1.380	1.455	1.475	1.578	1.675	0.986	1.448	1.222
135.0	1.560	1.542	1.379	1.499	1.366	1.419	1.563	1.149	1.431	1.240
137.5	1.703	1.573	1.376	1.794	1.272	1.204	1.635	1.383	1.304	1.257
140.0	1.651	1.643	1.452	1.978	1.385	1.234	1.766	1.661	1.168	1.176
142.5	1.552	1.690	1.532	1.622	1.568	1.289	1.722	1.952	1.212	1.082
145.0	1.364	1.735	1.752	1.369	1.435	1.302	1.639	1.890	1.262	1.203
147.5	1.160	1.721	1.940	1.477	1.221	1.313	1.579	1.740	1.356	1.339
150.0	1.344	1.704	1.470	1.560	1.310	1.397	1.524	1.623	1.451	1.256
152.5	1.564	1.737	1.059	1.579	1.454	1.475	1.484	1.511	1.559	1.170
155.0	1.556	1.751	1.213	1.602	1.419	1.458	1.445	1.403	1.640	1.158
157.5	1.543	1.503	1.377	1.638	1.365	1.415	1.299	1.298	1.543	1.142
160.0	1.597	1.323	1.580	1.681	1.588	1.241	1.188	1.285	1.472	1.095
162.5	1.641	1.362	1.751	1.734	1.643	1.189	1.268	1.334	1.463	1.038
165.0	1.663	1.368	1.882	1.709	1.271	1.305	1.285	1.538	1.495	0.964
167.5	1.534	1.329	1.947	1.703	1.448	1.325	1.245	1.638	1.494	1.072
170.0	1.439	1.132	1.928	1.764	1.671	1.529	1.223	1.487	1.243	1.157
172.5	1.377	1.327	1.781	1.354	1.674	1.621	1.432	1.191	1.336	1.099
175.0	1.305	1.345	1.758	1.357	1.700	1.253	1.356	1.428	1.083	0.955
177.5	1.370	1.224	1.536	1.565	1.814	1.427	1.555	1.388	1.414	1.057
180.0	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641

**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	1269.544	1269.544	1269.544	1269.544	1269.544	1269.544	1269.544
2.5	1268.366	1269.749	1269.337	1265.750	1267.685	1269.309	1269.476
5.0	1262.439	1262.932	1262.761	1262.646	1265.138	1267.579	1269.468
7.5	1254.014	1254.083	1253.608	1256.755	1259.411	1264.429	1266.061
10.0	1244.167	1240.354	1242.133	1247.756	1251.993	1257.683	1259.161
12.5	1233.003	1226.169	1229.746	1236.291	1239.803	1249.474	1249.982
15.0	1218.942	1211.120	1214.208	1222.598	1225.576	1236.238	1238.870
17.5	1202.699	1195.234	1197.725	1207.454	1208.251	1221.433	1224.303
20.0	1185.458	1178.038	1179.674	1189.747	1189.906	1203.393	1207.323
22.5	1167.590	1160.438	1161.281	1170.701	1171.482	1184.611	1187.420
25.0	1148.814	1142.327	1141.245	1150.454	1153.038	1164.328	1165.874
27.5	1129.582	1121.527	1120.953	1129.696	1132.540	1143.796	1145.002
30.0	1108.205	1097.956	1097.847	1108.316	1111.674	1121.817	1124.437
32.5	1085.981	1073.368	1074.485	1086.733	1088.003	1099.693	1100.568
35.0	1059.358	1047.902	1047.933	1060.472	1064.018	1072.888	1075.511
37.5	1031.355	1019.358	1021.219	1033.071	1034.698	1045.855	1048.021
40.0	1000.333	988.656	990.969	1003.032	1005.059	1015.310	1019.873
42.5	968.614	956.048	960.370	972.521	972.732	984.472	985.304
45.0	933.161	922.347	924.616	938.280	940.094	948.711	949.431
47.5	897.120	886.312	888.266	903.623	901.305	912.320	909.897
50.0	857.642	849.196	847.146	864.222	862.115	870.492	869.876
52.5	817.816	806.624	805.648	824.577	818.875	827.961	824.404
55.0	771.262	762.083	762.149	777.895	774.916	781.496	778.546
57.5	724.412	714.804	716.921	731.025	726.599	733.846	728.137
60.0	675.703	666.764	665.192	680.998	676.809	681.544	677.441
62.5	626.542	612.247	612.191	630.178	620.868	627.893	620.685
65.0	569.679	556.409	555.529	572.047	563.662	570.210	563.452

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**CANDELA TABULATION - (Cont.)**

67.5	512.326	496.257	496.702	513.282	502.391	511.132	500.809
70.0	450.868	435.527	432.958	450.687	441.216	448.775	438.421
72.5	390.123	374.971	371.628	389.029	380.279	387.381	377.805
75.0	333.278	314.427	314.640	331.273	322.044	327.774	318.901
77.5	278.507	264.828	262.884	276.529	269.049	273.389	267.979
80.0	231.911	215.855	218.929	231.072	221.143	227.025	220.084
82.5	188.361	179.484	179.547	188.765	181.387	185.289	182.439
85.0	153.773	143.807	145.694	154.200	145.989	149.310	147.061
87.5	122.193	116.909	116.187	122.898	116.235	118.329	117.741
90.0	97.584	91.007	90.954	97.916	91.415	92.408	91.908
92.5	76.133	72.115	70.767	76.441	71.864	72.706	73.362
95.0	60.569	54.372	54.737	60.491	55.492	58.276	56.362
97.5	45.809	42.015	40.856	45.872	41.924	44.729	41.979
100.0	32.251	30.182	28.411	32.975	30.626	31.790	29.765
102.5	21.385	20.204	19.066	22.043	20.952	21.677	20.553
105.0	13.829	11.494	11.381	13.179	13.481	13.125	13.081
107.5	8.031	6.187	6.588	7.195	7.302	8.011	7.565
110.0	4.017	2.392	3.062	3.712	3.983	4.454	4.011
112.5	2.057	1.766	1.759	2.009	2.019	2.935	2.280
115.0	1.795	1.429	1.210	1.578	1.510	2.134	1.460
117.5	1.621	1.590	1.219	1.285	1.541	2.005	1.337
120.0	1.508	1.584	1.368	1.072	1.512	2.053	1.400
122.5	1.464	1.346	1.241	1.305	1.467	1.944	1.577
125.0	1.457	1.311	1.063	1.747	1.521	1.804	1.522
127.5	1.355	1.504	1.280	1.703	1.597	1.741	1.350
130.0	1.211	1.546	1.544	1.481	1.590	1.688	1.356
132.5	1.226	1.444	1.484	1.420	1.572	1.603	1.433
135.0	1.297	1.461	1.404	1.405	1.853	1.517	1.560
137.5	1.309	1.569	1.392	1.656	2.158	1.554	1.703
140.0	1.305	1.548	1.386	1.964	1.676	1.592	1.651
142.5	1.265	1.445	1.510	1.713	1.191	1.642	1.552
145.0	1.219	1.398	1.603	1.384	1.549	1.673	1.364
147.5	1.311	1.380	1.378	1.220	1.878	1.499	1.160
150.0	1.421	1.520	1.217	1.068	1.799	1.363	1.344
152.5	1.536	1.725	1.466	1.668	1.740	1.486	1.564
155.0	1.650	1.555	1.666	2.243	1.823	1.598	1.556
157.5	1.285	1.269	1.673	1.760	1.884	1.668	1.543
160.0	1.023	1.546	1.650	1.389	1.868	1.820	1.597
162.5	1.232	1.794	1.576	1.415	1.745	2.121	1.641
165.0	1.288	1.548	1.853	1.742	1.501	2.058	1.663
167.5	1.253	1.706	2.067	2.217	1.354	1.839	1.534
170.0	1.602	1.934	1.568	2.062	1.326	1.627	1.439
172.5	1.411	1.839	1.514	1.627	1.530	1.610	1.377
175.0	1.733	1.812	1.666	1.378	1.724	1.664	1.305
177.5	1.328	1.324	1.536	1.628	1.522	1.075	1.370
180.0	1.641	1.641	1.641	1.641	1.641	1.641	1.641

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	466.69	N.A.	10.90
0-30	1001.87	N.A.	23.50
0-40	1671.59	N.A.	39.20
0-60	3095.96	N.A.	72.60
0-80	4007.39	N.A.	94.00
0-90	4175.87	N.A.	97.90
10-90	4055.61	N.A.	95.10
20-40	1204.9	N.A.	28.30
20-50	1933.38	N.A.	45.30
40-70	1986.24	N.A.	46.60
60-80	911.43	N.A.	21.40
70-80	349.56	N.A.	8.20
80-90	168.48	N.A.	4.00
90-110	81.50	N.A.	1.90
90-120	83.48	N.A.	2.00
90-130	84.75	N.A.	2.00
90-150	86.82	N.A.	2.00
90-180	88.09	N.A.	2.10
110-180	6.59	N.A.	0.20
0-180	4263.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	120.25
10-20	346.44
20-30	535.18
30-40	669.72
40-50	728.48
50-60	695.89
60-70	561.87
70-80	349.56
80-90	168.48
90-100	65.44
100-110	16.06
110-120	1.98
120-130	1.27
130-140	1.14
140-150	0.93
150-160	0.70
160-170	0.43
170-180	0.14

**IES INDOOR REPORT**  
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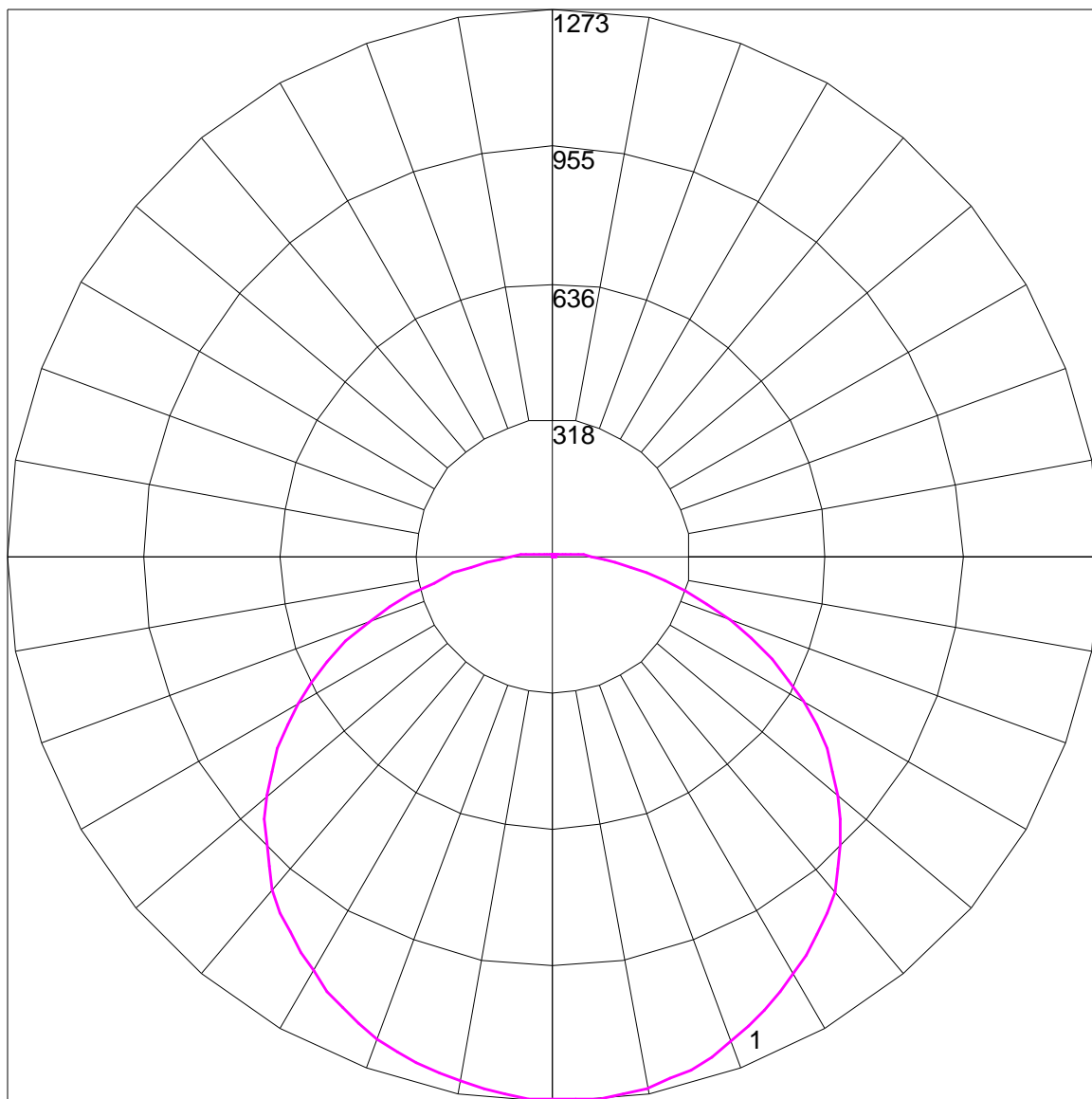
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	110	110	110	105	105	105	100	100	100	98
1	107	102	97	93	104	99	95	91	94	91	88	90	87	85	86	84	82	79
2	97	88	80	74	94	86	79	73	82	76	71	78	73	69	75	71	67	65
3	88	77	68	61	85	75	67	60	71	65	59	68	62	58	65	61	56	54
4	80	67	58	51	78	66	57	51	63	56	50	60	54	49	58	52	48	46
5	73	60	51	44	71	59	50	43	56	49	43	54	47	42	52	46	41	39
6	68	54	44	38	66	53	44	38	51	43	37	49	42	37	47	41	36	34
7	63	49	40	33	61	48	39	33	46	38	33	44	37	32	43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	29	40	34	29	39	33	28	26
9	54	40	32	26	53	40	32	26	38	31	26	37	31	26	36	30	25	24
10	51	37	29	24	49	37	29	24	36	28	23	34	28	23	33	27	23	21

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POLAR GRAPH



Maximum Candela = 1272.983 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)