

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00645 ~ OR1917GV-45L35K-EX-TF2.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00645\_1  
[TESTLAB] Spectrum Lighting Photometric Lab VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 6/28/2018  
[UPDATE] 6/29/2018  
[LUMCAT] OR1917GV-45L-35K-EX-TF2  
[LUMINAIRE] Nom. 19" diam x 17" H, RLM Classics luminaire  
[OTHER] Light distribution: 95% down / 5% uplight  
[OTHER] Regressed, 6" diam. low profile frosted glass diffuser  
[OTHER] Reflector: Matte White interior finish  
[OTHER] Open aperture reflector  
[OTHER] Beam Angle: 68 degrees  
[OTHER] 95% Downlight; 5% Uplight  
[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	3030
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	32
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.94
Spacing Criterion (90-270)	0.92
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.56 ft (Diameter)
Luminous Width (90-270)	1.56 ft (Diameter)
Luminous Height	0.13 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00645 ~ OR1917GV-45L35K-EX-TF2.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2034	1988	2004
55	2157	2195	2346
65	3441	3391	3828
75	3353	3204	3612
85	2845	2689	2967

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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>	2056.032	2056.032	2056.032	2056.032	2056.032	2056.032	2056.032	2056.032	2056.032	2056.032
<b>2.5</b>	2054.791	2060.520	2060.317	2057.309	2050.924	1981.145	1988.766	2006.351	2017.089	2029.671
<b>5.0</b>	1965.644	1985.200	1954.626	1970.933	1953.539	1885.738	1912.183	1894.216	1923.644	1921.069
<b>7.5</b>	1868.091	1867.935	1845.843	1846.816	1846.761	1783.354	1793.865	1783.986	1803.469	1812.091
<b>10.0</b>	1750.530	1757.843	1728.545	1734.896	1725.383	1675.584	1685.055	1679.312	1697.956	1702.392
<b>12.5</b>	1643.074	1652.445	1620.635	1629.913	1618.953	1583.801	1593.022	1582.084	1600.261	1604.133
<b>15.0</b>	1561.954	1566.684	1541.212	1547.609	1537.659	1505.525	1512.847	1509.342	1524.044	1530.022
<b>17.5</b>	1490.411	1494.594	1470.568	1479.267	1469.612	1446.519	1455.002	1443.830	1460.243	1465.510
<b>20.0</b>	1445.782	1442.598	1428.818	1429.571	1425.314	1404.796	1405.286	1404.200	1414.253	1422.709
<b>22.5</b>	1403.975	1405.474	1388.567	1392.095	1385.675	1368.510	1372.198	1365.989	1379.236	1382.575
<b>25.0</b>	1370.918	1369.266	1353.925	1356.521	1355.252	1337.399	1337.670	1333.327	1343.808	1349.035
<b>27.5</b>	1330.630	1333.800	1312.011	1322.294	1314.528	1288.812	1299.932	1289.846	1308.102	1303.103
<b>30.0</b>	1265.488	1260.598	1240.262	1242.144	1252.009	1222.043	1225.089	1197.490	1212.451	1223.577
<b>32.5</b>	1159.168	1154.938	1132.777	1126.926	1130.187	1063.433	1061.543	1073.863	1073.695	1094.338
<b>35.0</b>	898.410	955.227	863.692	918.468	873.930	803.408	870.820	793.572	858.483	819.573
<b>37.5</b>	653.504	669.645	611.926	634.382	639.057	583.921	608.947	535.700	584.849	574.062
<b>40.0</b>	475.318	468.314	451.850	445.129	458.126	412.659	395.411	407.044	409.766	423.205
<b>42.5</b>	321.348	351.060	309.987	338.764	315.856	301.376	320.998	291.802	317.080	298.749
<b>45.0</b>	282.789	279.812	276.388	276.181	278.634	267.006	262.201	266.885	265.481	269.249
<b>47.5</b>	249.440	257.288	246.743	254.818	250.162	247.449	252.051	245.661	250.351	246.316
<b>50.0</b>	243.741	244.521	243.771	244.936	247.368	248.074	248.038	253.004	248.012	249.219
<b>52.5</b>	240.599	242.885	242.712	246.525	250.897	260.280	265.231	262.536	257.721	256.823
<b>55.0</b>	253.167	251.125	257.633	256.951	275.363	289.516	285.292	292.690	275.885	285.254
<b>57.5</b>	267.318	271.505	273.230	277.030	300.755	317.780	316.411	321.970	302.757	311.987
<b>60.0</b>	292.916	292.669	295.494	296.084	329.486	344.498	343.250	340.813	321.382	330.161
<b>62.5</b>	315.926	314.859	315.800	313.951	352.507	359.840	351.963	357.531	330.997	343.682
<b>65.0</b>	317.257	323.441	312.709	318.121	353.001	355.922	354.806	342.354	326.246	330.991
<b>67.5</b>	315.840	312.855	308.012	305.432	347.187	340.767	329.486	326.196	304.832	315.200
<b>70.0</b>	284.618	292.460	275.716	283.179	312.639	305.001	301.849	288.700	276.542	279.062
<b>72.5</b>	252.949	257.141	243.213	248.043	276.444	266.637	261.476	251.155	239.528	242.850
<b>75.0</b>	215.304	220.734	205.751	212.560	231.931	223.099	221.447	211.764	203.838	206.057
<b>77.5</b>	178.033	182.567	168.497	176.579	188.941	182.570	183.552	172.465	169.935	169.833
<b>80.0</b>	147.220	148.210	139.214	143.897	154.823	148.452	146.916	141.801	138.552	138.815
<b>82.5</b>	116.783	120.535	109.966	116.239	122.419	118.715	119.799	111.138	110.836	108.770
<b>85.0</b>	97.534	97.536	92.165	93.977	101.688	99.156	94.385	92.248	89.277	90.453
<b>87.5</b>	78.544	83.425	74.364	80.745	82.584	83.232	83.967	73.496	77.396	73.015
<b>90.0</b>	74.063	72.568	69.469	70.265	76.229	76.551	73.968	69.421	67.880	68.933
<b>92.5</b>	69.577	68.322	64.729	64.697	69.775	69.620	68.358	65.746	62.325	64.699
<b>95.0</b>	63.486	63.347	57.972	58.932	62.365	62.009	62.668	59.661	56.961	57.363
<b>97.5</b>	57.396	56.758	51.152	52.795	55.137	54.900	55.841	53.472	51.946	50.100
<b>100.0</b>	50.922	50.501	46.236	47.022	50.123	49.337	49.087	46.786	46.703	45.719
<b>102.5</b>	44.440	45.046	41.418	42.015	45.063	43.886	43.727	40.065	41.014	41.333
<b>105.0</b>	38.487	39.748	37.243	37.413	39.296	38.808	38.382	36.405	36.220	36.346
<b>107.5</b>	32.553	34.853	33.113	33.723	33.579	33.912	33.436	33.004	33.313	31.359
<b>110.0</b>	27.670	29.834	29.594	30.143	28.969	29.680	28.519	25.645	28.732	27.700
<b>112.5</b>	22.842	24.463	26.131	26.834	24.345	25.525	25.872	17.879	20.307	24.048
<b>115.0</b>	14.357	18.580	22.331	23.687	19.137	21.687	23.225	11.199	12.697	14.903
<b>117.5</b>	5.589	11.082	18.494	20.975	13.965	18.145	18.135	4.661	7.135	5.604
<b>120.0</b>	3.358	4.854	15.009	18.376	12.608	15.964	13.040	2.541	2.750	3.303
<b>122.5</b>	1.743	2.981	11.570	16.109	11.251	13.641	9.815	1.084	1.547	1.311
<b>125.0</b>	1.415	1.545	8.159	13.378	10.350	10.595	6.623	1.083	0.698	1.279

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**CANDELA TABULATION - (Cont.)**

127.5	1.238	1.817	4.752	9.154	9.454	7.529	4.274	1.328	0.923	1.365
130.0	1.195	1.970	3.472	5.365	6.187	4.342	1.960	1.288	1.101	1.249
132.5	1.172	1.617	2.576	3.135	2.851	1.525	1.644	1.191	1.122	1.115
135.0	1.298	1.326	1.875	1.405	2.104	1.268	1.442	1.167	1.134	1.157
137.5	1.447	1.333	1.213	1.637	1.472	1.034	1.371	1.160	1.113	1.218
140.0	1.564	1.333	1.277	1.789	1.725	0.972	1.309	1.276	1.088	1.342
142.5	1.675	1.299	1.506	1.588	2.040	0.933	1.187	1.423	1.049	1.474
145.0	1.671	1.277	1.410	1.444	1.484	1.127	1.059	1.305	1.069	1.357
147.5	1.643	1.329	1.230	1.585	0.853	1.306	1.170	1.111	1.357	1.204
150.0	1.478	1.382	1.224	1.690	1.045	1.285	1.310	1.058	1.546	1.142
152.5	1.280	1.436	1.268	1.596	1.323	1.279	1.261	1.047	1.238	1.095
155.0	1.508	1.472	1.601	1.496	1.179	1.476	1.186	1.164	1.051	1.370
157.5	1.837	1.404	2.019	1.375	0.987	1.637	1.034	1.320	1.409	1.700
160.0	2.014	1.429	1.607	1.309	1.373	1.600	0.930	1.334	1.675	1.362
162.5	2.074	1.664	1.201	1.357	1.688	1.405	1.345	1.294	1.768	1.109
165.0	1.714	1.768	1.335	1.342	1.809	0.985	1.426	1.086	1.713	1.252
167.5	1.489	1.780	1.428	1.339	1.640	1.137	1.131	1.068	1.532	1.559
170.0	1.432	1.681	1.478	1.508	1.521	1.215	1.214	1.129	1.131	1.692
172.5	1.644	1.189	1.477	1.210	1.621	1.253	1.148	1.144	1.147	1.445
175.0	1.954	1.471	1.433	1.587	1.498	1.482	1.318	1.344	1.533	1.555
177.5	1.469	1.464	1.089	1.638	1.261	1.400	1.282	1.377	1.155	1.610
180.0	1.558	1.558	1.558	1.558	1.558	1.558	1.558	1.558	1.558	1.558

**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	2056.032	2056.032	2056.032	2056.032	2056.032	2056.032	2056.032
2.5	2051.363	2048.725	2044.220	2004.214	2015.602	2047.262	2054.791
5.0	1962.370	1949.577	1964.128	1948.639	1942.573	1973.638	1965.644
7.5	1845.023	1847.208	1846.537	1844.897	1847.700	1868.202	1868.091
10.0	1739.459	1737.690	1741.900	1745.952	1737.414	1763.039	1750.530
12.5	1639.398	1637.819	1647.583	1654.709	1645.245	1657.996	1643.074
15.0	1561.384	1561.336	1569.915	1574.331	1567.075	1576.562	1561.954
17.5	1494.572	1494.376	1506.542	1512.535	1504.322	1506.350	1490.411
20.0	1446.119	1452.250	1457.266	1460.206	1454.221	1455.187	1445.782
22.5	1407.629	1413.446	1420.835	1425.146	1412.694	1413.710	1403.975
25.0	1372.379	1384.166	1385.966	1390.291	1378.636	1376.147	1370.918
27.5	1339.034	1344.777	1352.629	1355.850	1333.217	1340.778	1330.630
30.0	1257.326	1273.388	1270.912	1290.368	1276.976	1265.638	1265.488
32.5	1144.843	1154.895	1138.054	1158.002	1129.255	1166.722	1159.168
35.0	926.959	874.355	929.492	978.572	889.058	954.591	898.410
37.5	637.707	617.134	635.994	688.512	664.718	669.251	653.504
40.0	450.103	451.466	431.733	452.085	457.389	477.644	475.318
42.5	336.793	310.623	335.350	353.633	324.362	351.506	321.348
45.0	274.531	276.913	272.275	276.325	278.486	282.808	282.789
47.5	252.510	248.723	252.607	257.647	250.484	256.757	249.440
50.0	246.257	246.868	242.799	243.813	244.745	243.943	243.741
52.5	253.206	249.162	246.646	244.787	246.300	241.726	240.599
55.0	271.900	274.773	259.361	249.613	257.650	250.841	253.167
57.5	301.344	299.849	285.538	267.486	272.869	269.732	267.318
60.0	322.443	321.534	306.855	283.545	293.697	290.679	292.916
62.5	335.434	339.491	320.320	292.904	305.711	313.510	315.926
65.0	333.148	330.447	322.095	297.239	304.136	319.291	317.257

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**CANDELA TABULATION - (Cont.)**

67.5	315.113	318.654	303.739	280.779	292.610	308.253	315.840
70.0	287.510	281.882	277.959	261.385	264.487	285.751	284.618
72.5	249.126	244.969	238.090	228.262	233.822	251.069	252.949
75.0	212.064	206.521	199.783	195.388	198.566	215.512	215.304
77.5	176.584	168.638	164.639	163.806	165.182	178.969	178.033
80.0	144.451	138.347	132.805	133.224	135.412	145.805	147.220
82.5	116.568	108.707	108.153	108.653	108.894	116.747	116.783
85.0	94.726	92.199	87.289	85.709	89.199	94.416	97.534
87.5	81.287	76.058	75.557	74.252	73.752	80.896	78.544
90.0	71.025	70.939	65.876	63.661	68.014	71.499	74.063
92.5	65.462	65.800	61.516	60.127	62.202	67.841	69.577
95.0	59.652	59.515	57.036	56.429	56.210	62.620	63.486
97.5	53.452	53.231	52.222	51.010	50.545	55.013	57.396
100.0	47.503	48.277	47.303	45.667	45.764	48.456	50.922
102.5	41.988	43.329	42.056	41.298	40.906	43.603	44.440
105.0	36.999	37.754	37.011	36.927	35.820	38.633	38.487
107.5	32.978	32.167	32.653	32.501	31.267	33.461	32.553
110.0	28.972	28.126	28.191	28.146	28.429	27.742	27.670
112.5	24.993	24.147	23.330	25.728	25.167	20.979	22.842
115.0	20.907	21.355	18.645	23.302	20.366	14.379	14.357
117.5	16.586	18.635	14.710	20.451	15.735	8.109	5.589
120.0	12.831	16.265	11.249	17.603	11.788	3.487	3.358
122.5	10.398	13.922	10.033	15.192	8.106	2.461	1.743
125.0	7.780	10.255	8.692	12.781	5.582	1.681	1.415
127.5	4.688	6.457	6.679	8.570	3.348	1.499	1.238
130.0	2.251	4.059	4.689	4.328	2.600	1.363	1.195
132.5	1.655	1.832	2.852	2.944	1.908	1.349	1.172
135.0	1.241	1.488	1.227	1.654	1.545	1.331	1.298
137.5	1.380	1.408	1.125	1.481	1.270	1.303	1.447
140.0	1.473	1.297	1.033	1.362	1.575	1.304	1.564
142.5	1.411	1.181	1.017	1.481	1.824	1.399	1.675
145.0	1.379	1.107	1.006	1.619	1.636	1.498	1.671
147.5	1.459	1.041	1.043	1.510	1.474	1.606	1.643
150.0	1.515	1.057	1.073	1.380	1.562	1.721	1.478
152.5	1.474	1.091	0.996	1.640	1.654	1.861	1.280
155.0	1.449	1.089	0.943	1.944	1.795	1.931	1.508
157.5	1.485	1.080	1.112	1.693	1.897	1.755	1.837
160.0	1.456	1.024	1.242	1.443	1.807	1.741	2.014
162.5	1.313	1.017	1.264	1.521	1.621	1.989	2.074
165.0	1.268	1.213	1.228	1.586	1.308	1.831	1.714
167.5	1.292	1.273	1.132	1.627	1.571	1.594	1.489
170.0	1.419	1.330	0.893	1.341	1.636	1.604	1.432
172.5	1.302	1.403	0.892	1.606	1.467	1.412	1.644
175.0	1.651	0.965	1.071	1.578	1.375	1.637	1.954
177.5	1.328	1.031	1.276	1.515	1.541	1.701	1.469
180.0	1.558	1.558	1.558	1.558	1.558	1.558	1.558

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	616.00	N.A.	20.30
0-30	1241.21	N.A.	41.00
0-40	1777.17	N.A.	58.70
0-60	2251.16	N.A.	74.30
0-80	2789.84	N.A.	92.10
0-90	2896.67	N.A.	95.60
10-90	2718.18	N.A.	89.70
20-40	1161.17	N.A.	38.30
20-50	1390.27	N.A.	45.90
40-70	788.86	N.A.	26.00
60-80	538.69	N.A.	17.80
70-80	223.82	N.A.	7.40
80-90	106.82	N.A.	3.50
90-110	105.08	N.A.	3.50
90-120	124.00	N.A.	4.10
90-130	129.84	N.A.	4.30
90-150	132.02	N.A.	4.40
90-180	133.21	N.A.	4.40
110-180	28.13	N.A.	0.90
0-180	3029.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	178.48
10-20	437.52
20-30	625.20
30-40	535.96
40-50	229.11
50-60	244.88
60-70	314.87
70-80	223.82
80-90	106.82
90-100	64.98
100-110	40.10
110-120	18.92
120-130	5.84
130-140	1.33
140-150	0.85
150-160	0.65
160-170	0.41
170-180	0.13

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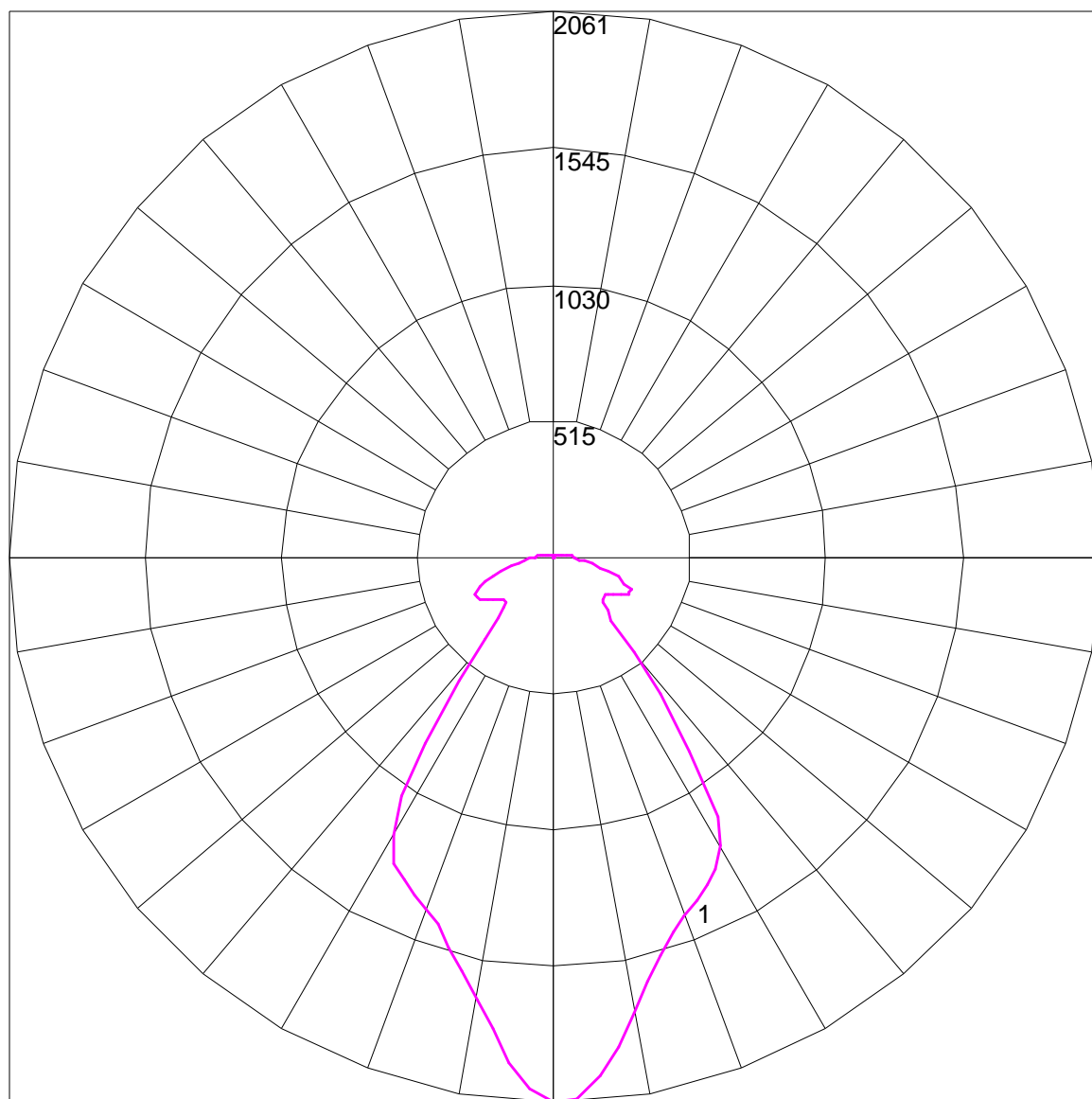
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	108	103	99	95	105	100	97	93	95	92	89	91	88	86	86	84	83	80
2	99	91	85	79	96	89	83	78	85	80	76	81	77	73	77	74	71	69
3	91	82	74	68	89	80	73	67	76	70	65	73	68	64	70	66	62	60
4	85	74	66	60	82	72	65	59	69	63	58	66	61	56	64	59	55	53
5	79	67	59	53	77	66	58	52	63	57	52	61	55	51	59	54	50	48
6	74	62	54	48	72	61	53	47	58	52	47	56	50	46	54	49	45	43
7	69	57	49	43	67	56	48	43	54	47	42	52	46	42	51	45	41	39
8	65	53	45	40	63	52	45	39	50	44	39	49	43	39	47	42	38	36
9	61	49	42	37	60	48	41	36	47	41	36	46	40	36	44	39	35	34
10	58	46	39	34	57	45	38	34	44	38	33	43	37	33	42	37	33	31

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POLAR GRAPH



Maximum Candela = 2060.52 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)