

IES Report

DoubleBox™ | 107 | Wide Batwing, up | 85° Asymmetric, down | 80 CRI | SO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-G1A1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	92	95	97	97
Total Lumens, 4' rail length (1219mm)	4384	4522	4614	4614
Lumens per foot (305mm)	1096	1131	1154	1154
Lumens per foot UP (305mm)	743	766	782	782
Lumens per foot DOWN (305mm)	353	364	372	372
Input Power (W), 4' rail length (1219mm)	47.8	47.8	47.8	47.8
Watts per foot (305mm)	12.0	12.0	12.0	12.0
CRI	82	82	82	82

Due to the large number of options in Vode's product offering, most Vode IES reports are factored reports prepared from source reports. Source reports are the IES test reports prepared for Vode by an NVLAP accredited photometric test laboratory. Factored reports are based on data from the Vode source reports.

If the data above is in black, it is directly from a Vode source report. If it is in grey, it is factored from Vode source reports. Reference details on Vode source reports can be found on the [IES File Finder](#) page on [vode.com](#).



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE_107_DB_SO_35_G1A1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911514 (SOURCE REPORTS FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 3/18/20

[MANUFAC] Vode Lighting

[LUMCAT] 107-DB-48-Z-SO-35-G1A1-BL

[LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board, wide batwing lens up /

[MORE] 85° asymmetric lens down, standard output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4614
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	47.84
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.07 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.21 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10334	10226	15534
55	6225	5725	9311
65	2969	2785	5841
75	668	1027	3745
85	0	4	1648

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	911.899	911.899	911.899	911.899	911.899	911.899	911.899	911.899	911.899	911.899
5	994.143	994.920	994.920	992.682	988.308	984.318	978.773	973.333	967.405	960.492
10	1081.654	1081.746	1081.746	1076.886	1070.958	1064.149	1056.273	1047.132	1036.344	1024.872
15	1118.217	1117.440	1116.465	1111.315	1105.283	1097.696	1088.068	1077.466	1064.056	1049.568
20	1114.134	1113.542	1111.895	1107.232	1100.515	1092.256	1082.141	1069.891	1055.403	1038.768
25	1082.234	1080.876	1078.058	1073.383	1065.901	1056.273	1045.485	1031.286	1014.269	995.303
30	1022.146	1021.368	1018.260	1012.425	1003.574	992.774	978.588	961.466	941.143	919.080
35	944.553	943.382	939.101	932.002	921.608	907.793	890.973	869.872	845.373	819.111
40	844.979	843.424	838.471	830.595	818.241	801.514	781.190	756.981	729.756	699.909
45	730.626	728.979	723.631	715.175	702.334	684.052	660.620	633.685	604.325	571.161
50	602.284	600.822	596.542	588.665	576.021	557.937	535.479	508.057	477.236	446.020
55	471.598	470.624	466.830	460.613	449.523	433.678	413.644	390.595	363.080	335.275
60	347.722	347.037	344.706	340.228	332.549	320.392	304.836	285.488	263.610	241.628
65	233.172	232.882	232.000	230.156	226.072	218.880	208.962	195.936	180.960	165.694
70	134.386	134.572	135.163	135.940	135.650	133.702	129.618	123.296	115.223	106.476
75	52.699	53.093	54.740	57.374	60.390	62.907	64.566	64.658	63.011	60.192
80	4.280	4.373	4.860	5.835	7.389	9.721	12.841	16.727	20.416	23.142
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.197
90	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661
95	26.355	32.422	30.589	31.285	32.341	34.116	34.997	42.027	46.040	49.138
100	101.802	106.848	109.365	114.573	121.278	128.424	136.660	143.620	152.923	153.735
105	244.354	227.604	243.577	249.957	257.242	269.143	278.168	285.778	292.981	291.137
110	455.555	440.568	442.076	451.704	467.271	468.106	484.312	472.375	460.427	431.833
115	728.689	725.696	699.990	686.755	680.537	676.756	658.196	632.154	599.105	558.192
120	927.339	921.539	908.767	884.744	862.680	831.813	799.043	761.853	704.607	644.670
125	1056.563	1049.812	1034.140	1014.339	989.584	942.883	900.740	839.678	778.476	709.560
130	1111.802	1105.840	1088.753	1062.896	1031.402	989.480	936.224	878.445	812.360	744.418
135	1111.210	1106.188	1090.214	1065.077	1030.312	990.025	939.101	886.310	825.282	764.336
140	1075.239	1070.112	1055.623	1033.096	1003.156	965.944	921.980	874.118	822.939	770.344
145	1018.445	1013.875	1002.298	984.399	959.030	928.151	892.144	851.254	808.833	765.554
150	952.325	948.196	939.728	925.135	905.670	881.078	852.171	820.816	788.800	753.988
155	883.676	880.672	875.069	863.910	849.828	831.813	810.620	787.860	764.220	740.300
160	819.111	817.522	812.928	806.629	796.607	785.181	772.050	756.262	739.697	724.861
165	763.790	762.619	759.719	756.297	751.657	744.732	737.041	728.631	719.571	709.085
170	722.460	721.822	720.418	718.852	716.915	714.641	712.031	707.902	703.621	699.155
175	697.670	697.369	697.125	696.394	695.849	695.258	694.620	693.935	693.216	692.462
180	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040

**Vert.
Angles**

Horizontal Angles

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0	911.899	911.899	911.899	911.899	911.899	911.899	911.899	911.899	911.899	911.899
5	953.694	945.226	936.480	930.262	918.685	906.818	896.518	936.967	925.692	914.509
10	1011.543	996.568	980.328	964.876	944.263	922.861	900.984	927.049	903.814	879.013
15	1032.354	1012.808	990.930	968.182	941.537	910.902	880.475	893.594	860.929	826.024
20	1019.327	997.055	972.266	946.003	913.732	878.236	840.896	841.476	800.644	754.360
25	973.333	948.056	920.042	890.973	856.556	815.712	773.708	763.396	716.729	667.139
30	894.476	866.474	835.351	802.395	766.412	725.580	682.300	664.413	614.429	564.363
35	790.726	759.116	725.766	690.374	654.205	613.953	570.094	548.019	501.839	453.804
40	666.745	632.618	598.200	563.389	528.380	491.330	452.435	430.557	390.990	348.302
45	536.941	503.776	470.136	437.366	404.399	375.527	342.757	321.854	289.571	254.075
50	413.540	384.273	353.939	325.542	299.384	274.201	248.634	230.550	206.039	180.078
55	307.168	281.404	256.221	234.239	213.243	194.080	179.104	161.901	143.910	125.048
60	219.750	199.242	181.053	164.720	149.942	135.836	122.716	112.984	100.444	87.615

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CANDELA TABULATION - (Cont.)

65	150.916	136.126	123.586	112.404	101.999	92.475	85.376	77.210	68.939	60.575
70	97.626	88.578	80.701	73.614	67.187	61.352	56.979	51.724	46.377	40.936
75	56.399	52.212	48.326	44.532	41.029	37.723	35.392	32.376	29.174	25.961
80	24.406	24.314	23.432	22.365	20.903	19.546	18.664	17.412	15.846	14.198
85	0.684	1.949	3.990	5.835	6.415	6.519	6.415	6.229	5.835	5.440
90	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661
95	49.868	61.700	60.262	48.360	44.985	45.286	44.393	42.746	43.662	42.746
100	153.491	152.853	141.566	126.104	115.571	106.244	97.892	94.702	95.097	94.702
105	283.144	261.128	235.619	205.540	183.025	166.309	154.315	148.236	147.308	148.236
110	392.138	356.514	317.585	277.623	247.579	227.383	212.790	205.413	205.076	205.413
115	504.217	444.547	390.990	344.996	309.998	286.044	269.538	260.733	260.014	260.733
120	580.510	512.511	453.606	406.383	368.451	342.560	326.749	316.552	312.423	316.552
125	636.422	568.922	509.136	459.662	420.036	392.846	376.501	366.618	361.723	366.618
130	676.814	613.652	557.148	508.486	469.127	439.582	419.676	407.056	397.602	407.056
135	702.879	645.946	593.537	550.002	513.845	486.400	468.269	456.994	452.342	456.994
140	717.344	668.995	623.639	583.364	551.870	525.990	508.706	498.174	493.278	498.174
145	723.040	682.869	645.389	611.738	584.211	562.565	546.337	537.846	532.950	537.846
150	721.300	689.840	659.367	634.276	610.682	594.848	580.325	574.339	570.291	574.339
155	715.813	692.381	670.932	650.041	634.996	621.690	611.761	606.599	602.864	606.599
160	709.189	692.624	676.616	665.167	654.124	643.498	638.847	634.903	631.933	634.903
165	699.352	691.372	683.379	675.445	667.615	664.054	661.084	658.381	656.247	658.381
170	694.550	689.852	685.200	682.973	680.932	679.029	677.278	675.630	674.238	675.630
175	691.685	690.884	690.061	689.237	688.414	687.590	686.755	685.978	685.224	685.978
180	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	911.899	911.899	911.899	911.899	911.899	911.899	911.899	911.899	911.899	911.899
5	904.000	893.304	883.189	872.888	863.458	855.001	846.150	838.761	831.268	823.588
10	855.964	832.532	808.810	786.248	763.210	742.296	722.854	703.702	686.291	669.958
15	791.700	756.007	720.325	686.581	651.874	620.461	590.707	562.217	537.126	513.799
20	710.790	665.098	619.486	576.706	532.660	494.543	458.861	425.500	396.534	370.562
25	617.549	565.628	513.892	466.738	418.598	377.568	340.912	307.168	278.968	253.298
30	512.140	461.680	410.141	362.686	317.179	278.586	244.934	214.994	190.101	169.186
35	407.125	356.955	309.790	267.693	227.627	195.158	167.632	143.620	124.944	109.875
40	306.971	263.610	225.492	191.168	159.465	134.479	113.866	96.651	82.743	72.732
45	221.119	188.245	159.175	133.412	110.072	91.791	78.764	65.633	56.596	49.393
50	155.869	132.147	111.140	92.278	79.147	64.658	54.648	46.481	40.449	35.682
55	107.834	91.791	80.318	64.368	54.160	45.797	39.092	33.744	29.847	26.738
60	75.655	64.856	54.845	46.574	39.289	33.837	29.371	25.868	23.235	21.193
65	52.803	45.507	38.988	33.547	28.780	25.184	22.365	20.033	18.282	16.820
70	36.076	31.413	27.330	23.826	21.008	18.664	16.727	15.266	14.001	13.027
75	23.235	20.520	18.084	16.147	14.396	13.027	11.867	10.985	10.208	9.535
80	12.841	11.577	10.405	9.535	8.654	8.074	7.389	6.902	6.519	6.229
85	5.058	4.663	4.373	4.176	3.886	3.700	3.503	3.016	2.819	2.529
90	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661
95	44.393	45.286	44.985	48.360	60.262	61.700	49.868	49.138	46.040	42.027
100	97.892	106.244	115.571	126.104	141.566	152.853	153.491	153.735	152.923	143.620
105	154.315	166.309	183.025	205.540	235.619	261.128	283.144	291.137	292.981	285.778
110	212.790	227.383	247.579	277.623	317.585	356.514	392.138	431.833	460.427	472.375
115	269.538	286.044	309.998	344.996	390.990	444.547	504.217	558.192	599.105	632.154
120	326.749	342.560	368.451	406.383	453.606	512.511	580.510	644.670	704.607	761.853
125	376.501	392.846	420.036	459.662	509.136	568.922	636.422	709.560	778.476	839.678
130	419.676	439.582	469.127	508.486	557.148	613.652	676.814	744.418	812.360	878.445
135	468.269	486.400	513.845	550.002	593.537	645.946	702.879	764.336	825.282	886.310

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CANDELA TABULATION - (Cont.)

140	508.706	525.990	551.870	583.364	623.639	668.995	717.344	770.344	822.939	874.118
145	546.337	562.565	584.211	611.738	645.389	682.869	723.040	765.554	808.833	851.254
150	580.325	594.848	610.682	634.276	659.367	689.840	721.300	753.988	788.800	820.816
155	611.761	621.690	634.996	650.041	670.932	692.381	715.813	740.300	764.220	787.860
160	638.847	643.498	654.124	665.167	676.616	692.624	709.189	724.861	739.697	756.262
165	661.084	664.054	667.615	675.445	683.379	691.372	699.352	709.085	719.571	728.631
170	677.278	679.029	680.932	682.973	685.200	689.852	694.550	699.155	703.621	707.902
175	686.755	687.590	688.414	689.237	690.061	690.884	691.685	692.462	693.216	693.935
180	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040

Vert. Horizontal Angles
Angles

	150	155	160	165	170	175	180
0	911.899	911.899	911.899	911.899	911.899	911.899	911.899
5	817.371	810.759	806.571	804.924	802.581	891.367	892.817
10	655.470	642.338	631.643	625.518	620.751	705.837	707.101
15	493.476	475.577	461.193	452.829	445.150	516.223	517.290
20	347.814	328.756	313.583	303.769	295.893	347.814	348.302
25	233.462	216.549	203.220	194.567	187.955	220.725	221.119
30	153.050	139.734	129.224	122.612	117.462	137.390	137.298
35	97.916	87.998	80.701	76.618	73.022	84.494	84.599
40	64.368	58.244	53.290	50.367	48.233	54.938	55.030
45	43.952	39.962	36.853	34.904	33.640	37.630	37.538
50	32.190	29.557	27.422	26.158	25.276	27.712	27.620
55	24.406	22.655	21.298	20.416	19.836	21.390	21.390
60	19.546	18.282	17.412	16.727	16.240	17.214	17.307
65	15.753	14.778	14.094	13.618	13.224	13.908	13.804
70	12.250	11.577	11.090	10.695	10.405	10.892	10.892
75	9.048	8.561	8.271	7.969	7.784	8.074	7.969
80	5.928	5.638	5.348	5.348	5.150	5.255	5.255
85	2.239	2.134	2.042	1.949	1.844	1.949	1.949
90	5.661	5.661	5.661	5.661	5.661	5.661	5.661
95	34.997	34.116	32.341	31.285	30.589	32.422	26.355
100	136.660	128.424	121.278	114.573	109.365	106.848	101.802
105	278.168	269.143	257.242	249.957	243.577	227.604	244.354
110	484.312	468.106	467.271	451.704	442.076	440.568	455.555
115	658.196	676.756	680.537	686.755	699.990	725.696	728.689
120	799.043	831.813	862.680	884.744	908.767	921.539	927.339
125	900.740	942.883	989.584	1014.339	1034.140	1049.812	1056.563
130	936.224	989.480	1031.402	1062.896	1088.753	1105.840	1111.802
135	939.101	990.025	1030.312	1065.077	1090.214	1106.188	1111.210
140	921.980	965.944	1003.156	1033.096	1055.623	1070.112	1075.239
145	892.144	928.151	959.030	984.399	1002.298	1013.875	1018.445
150	852.171	881.078	905.670	925.135	939.728	948.196	952.325
155	810.620	831.813	849.828	863.910	875.069	880.672	883.676
160	772.050	785.181	796.607	806.629	812.928	817.522	819.111
165	737.041	744.732	751.657	756.297	759.719	762.619	763.790
170	712.031	714.641	716.915	718.852	720.418	721.822	722.460
175	694.620	695.258	695.849	696.394	697.125	697.369	697.670
180	689.040	689.040	689.040	689.040	689.040	689.040	689.040

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	312.97	N.A.	6.80
0-30	616.86	N.A.	13.40
0-40	924.22	N.A.	20.00
0-60	1348.56	N.A.	29.20
0-80	1480.55	N.A.	32.10
0-90	1486.88	N.A.	32.20
10-90	1401.65	N.A.	30.40
20-40	611.26	N.A.	13.20
20-50	863.69	N.A.	18.70
40-70	520.13	N.A.	11.30
60-80	131.99	N.A.	2.90
70-80	36.20	N.A.	0.80
80-90	6.33	N.A.	0.10
90-110	313.65	N.A.	6.80
90-120	813.90	N.A.	17.60
90-130	1437.81	N.A.	31.20
90-150	2515.37	N.A.	54.50
90-180	3127.12	N.A.	67.80
110-180	2813.47	N.A.	61.00
0-180	4614.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	85.23
10-20	227.74
20-30	303.89
30-40	307.36
40-50	252.44
50-60	171.90
60-70	95.79
70-80	36.20
80-90	6.33
90-100	58.78
100-110	254.87
110-120	500.25
120-130	623.92
130-140	594.25
140-150	483.30
150-160	343.63
160-170	201.85
170-180	66.27

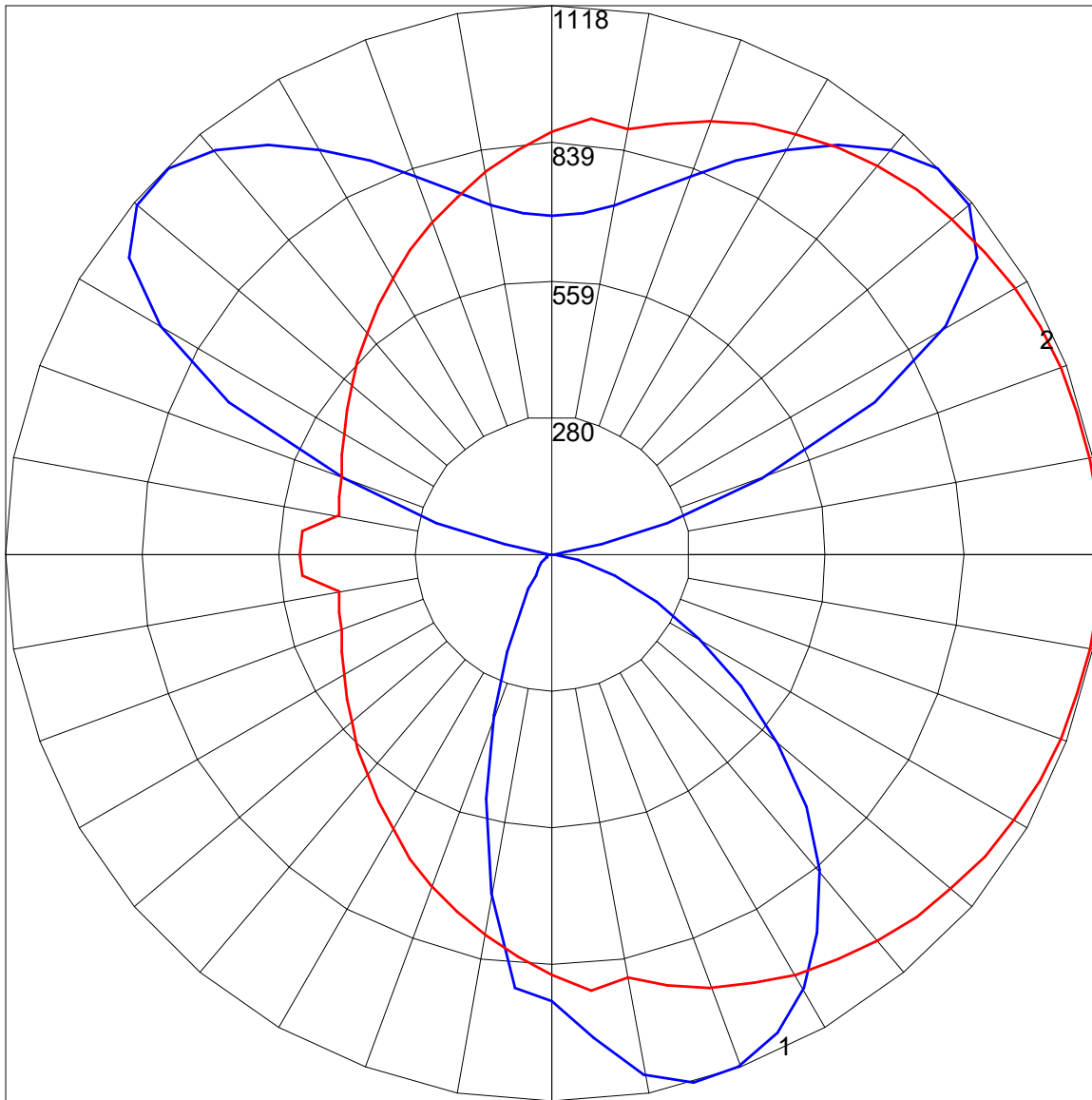
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_SO_35_G1A1_BL.IES

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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32
1	95	91	87	84	85	82	79	76	65	63	62	50	49	48	36	36	35	29
2	87	80	74	70	78	72	68	64	58	55	52	45	43	41	33	32	30	25
3	79	71	64	59	71	64	58	54	52	48	44	40	38	35	30	28	27	22
4	73	63	56	50	66	57	51	46	46	42	38	36	33	31	27	25	24	20
5	67	56	49	43	60	51	45	40	42	37	34	33	30	27	25	23	21	17
6	62	51	43	38	56	46	40	35	38	33	30	30	27	24	22	20	19	16
7	57	46	38	33	52	42	35	31	34	30	26	27	24	22	21	19	17	14
8	53	42	35	30	48	38	32	27	31	27	23	25	22	19	19	17	15	13
9	50	38	31	26	45	35	29	25	29	24	21	23	20	18	18	16	14	12
10	46	35	28	24	42	32	26	22	27	22	19	21	18	16	17	14	13	11

POLAR GRAPH



Maximum Candela = 1118.217 Located At Horizontal Angle = 0, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)