

IES Report

DoubleBox™ | 107 | 120° Batwing, up | 85° Asymmetric, down | 80 CRI | SO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-G1A1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	94	97	99	101
Total Lumens, 4' rail length (1219mm)	4501	4643	4738	4832
Lumens per foot (305mm)	1125	1161	1184	1208
Lumens per foot UP (305mm)	739	762	777	793
Lumens per foot DOWN (305mm)	387	399	407	415
Input Power (W), 4' rail length (1219mm)	48.1	48.1	48.1	48.1
Watts per foot (305mm)	12.1	12.1	12.1	12.1
CRI	85	85	85	85

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.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L011800105 (SOURCE REPORT FOR REFERENCE)
 [TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
 [ISSUEDATE] 1/12/2018
 [MANUFAC] Vode Lighting
 [LUMCAT] 107-DB-48-Z-SO-35-G1A1
 [LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board,
 [MORE] 120° batwing lens up with white polycarbonate reflectors/85° white asymmetric lens down, standard output
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4738
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	48.15
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)	0.08 ft
Luminous Width (90-270)	3.77 ft
Luminous Height	0.21 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13270	13861	12841
55	8544	8771	10283
65	4391	4563	8232
75	1256	1774	6042
85	23	107	2697

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	503.962	503.962	503.962	503.962	503.962	503.962	503.962	503.962	503.962	503.962
5	685.630	684.678	682.358	678.681	673.670	667.371	659.831	651.120	641.294	630.425
10	879.036	876.925	871.868	863.898	853.087	839.550	823.368	803.602	781.654	757.666
15	1046.645	1043.524	1036.541	1025.753	1010.836	990.559	967.127	940.760	911.702	878.514
20	1162.424	1158.666	1151.300	1139.514	1121.244	1100.202	1075.935	1046.784	1016.056	972.985
25	1214.822	1210.762	1204.683	1191.645	1176.182	1156.520	1133.993	1111.326	1068.801	1022.633
30	1209.810	1206.052	1200.496	1189.383	1175.811	1159.524	1140.547	1110.375	1073.626	1033.792
35	1158.759	1154.954	1148.771	1140.906	1127.381	1112.962	1095.574	1062.827	1032.156	991.081
40	1070.726	1067.188	1060.182	1050.914	1040.021	1026.623	1003.713	978.634	948.416	907.329
45	953.984	950.713	944.043	934.484	923.940	908.350	885.208	864.699	828.948	795.934
50	810.840	806.339	800.818	793.788	784.264	768.662	747.898	723.330	693.286	657.268
55	652.686	648.208	644.983	640.970	630.274	611.981	596.252	572.344	552.276	523.032
60	492.594	489.903	486.492	470.299	453.989	442.389	429.815	418.319	405.652	382.498
65	345.030	343.418	326.830	310.996	304.477	301.310	296.542	288.828	281.358	273.957
70	211.723	203.487	188.964	188.454	190.866	191.122	189.428	183.524	180.508	177.178
75	98.438	86.861	90.932	92.440	93.867	97.162	97.231	98.391	102.463	103.948
80	19.070	22.040	20.857	22.191	23.734	25.439	26.796	31.134	34.661	41.180
85	1.740	3.086	2.633	2.459	2.320	2.656	2.285	2.970	4.594	5.904
90	1.137	1.160	1.253	1.253	1.253	1.253	1.253	1.253	1.253	1.253
95	43.152	44.648	40.530	38.988	38.593	39.544	40.484	42.224	44.498	44.764
100	164.523	136.022	138.144	135.488	134.374	132.066	129.375	132.414	127.043	125.303
105	280.488	240.723	247.370	242.220	243.368	240.874	237.742	235.434	234.482	227.464
110	413.030	398.588	366.931	361.758	364.785	364.623	361.966	355.366	348.104	332.618
115	543.066	542.671	517.372	495.726	486.214	484.335	479.892	472.178	462.028	446.194
120	670.213	668.740	664.657	648.568	628.929	617.990	608.478	599.987	581.879	555.930
125	788.301	786.109	782.780	778.325	771.354	754.661	744.627	716.915	691.743	655.272
130	891.367	888.641	883.421	876.206	867.935	854.352	834.991	808.137	771.980	726.357
135	972.092	969.493	963.241	953.938	941.792	926.770	900.659	873.979	830.931	787.257
140	1027.574	1024.361	1016.404	1005.094	991.046	973.437	945.435	911.980	872.912	823.043
145	1057.038	1053.083	1044.464	1031.936	1014.211	993.366	968.159	929.183	888.827	843.320
150	1053.384	1048.860	1040.822	1026.229	1007.599	984.736	958.264	924.868	886.890	845.872
155	1014.466	1010.464	1003.968	990.118	973.147	952.024	927.513	901.494	869.234	836.325
160	952.244	948.845	943.092	934.055	919.497	903.176	884.720	862.727	839.794	818.229
165	876.925	874.547	870.673	865.348	858.122	847.496	835.815	823.194	809.750	794.333
170	812.197	810.840	808.891	806.374	803.300	799.727	795.644	789.693	783.452	776.922
175	772.502	772.026	771.481	770.890	770.252	769.579	768.871	768.129	767.363	766.586
180	764.440	764.440	764.440	764.440	764.440	764.440	764.440	764.440	764.440	764.440

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	503.962	503.962	503.962	503.962	503.962	503.962	503.962	503.962	503.962	503.962
5	618.616	605.938	592.493	578.388	563.725	548.610	533.171	517.511	501.746	489.381
10	731.832	704.340	675.456	647.118	617.828	587.807	557.252	526.362	495.390	471.111
15	840.698	798.219	754.174	708.853	659.611	618.187	573.620	528.786	484.114	448.653
20	923.696	871.775	818.716	758.466	697.624	633.650	579.002	521.803	465.241	420.732
25	976.476	918.326	852.438	787.686	715.476	642.837	572.622	505.354	439.420	388.008
30	982.532	923.928	859.873	783.905	710.454	629.254	550.640	477.108	406.000	350.680
35	943.254	892.643	822.950	751.065	671.454	591.194	510.145	435.708	364.971	309.453
40	863.226	810.817	750.601	682.254	607.109	533.008	450.126	378.798	316.993	265.640
45	749.743	704.236	650.389	588.074	522.452	444.268	382.104	326.598	268.842	224.089
50	622.665	583.642	533.948	480.101	431.833	373.230	320.810	269.944	221.351	185.008
55	485.750	447.725	413.830	376.814	340.414	299.199	257.323	216.189	178.582	150.916
60	367.546	348.081	322.503	294.014	262.589	230.643	199.114	168.386	141.984	120.396

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CANDELA TABULATION - (Cont.)

65	264.863	249.191	232.940	213.649	193.314	171.784	148.700	127.032	109.226	93.125
70	171.819	167.388	159.338	147.181	134.444	120.454	106.082	92.696	80.237	69.090
75	101.001	101.361	102.950	97.220	90.492	80.458	68.869	59.404	52.977	46.864
80	43.082	46.760	50.298	46.702	44.080	40.032	36.238	32.422	28.988	26.471
85	6.867	9.083	10.324	10.336	12.563	12.551	11.472	11.020	10.788	10.626
90	1.253	1.160	1.160	1.160	1.160	1.056	1.056	1.160	1.056	1.253
95	44.938	41.319	38.651	35.403	31.297	30.775	29.209	28.350	29.963	30.554
100	124.596	116.035	108.077	99.702	94.470	91.501	88.960	86.919	89.100	88.531
105	215.018	200.750	185.554	168.061	156.124	150.846	149.814	146.531	146.984	150.603
110	315.369	294.199	269.120	244.574	229.715	222.163	216.062	213.776	214.414	216.247
115	420.152	386.790	352.814	322.387	301.449	289.118	281.184	278.249	280.685	282.762
120	521.884	474.104	431.346	396.117	368.346	352.454	345.738	342.200	341.179	343.870
125	604.511	552.334	502.930	461.367	426.590	406.615	397.103	392.092	390.584	392.962
130	675.874	619.892	567.727	522.974	487.873	467.550	455.613	449.976	449.535	454.244
135	729.350	674.540	622.375	577.877	542.752	519.042	507.048	500.772	498.754	504.322
140	771.029	716.857	667.128	623.059	590.382	565.372	552.670	545.803	543.448	549.863
145	794.588	747.864	702.171	662.766	632.026	609.661	594.755	588.828	586.890	593.827
150	804.994	764.486	725.963	694.585	666.072	648.359	632.502	628.755	627.258	634.392
155	803.544	772.154	743.374	715.929	697.125	681.048	670.051	666.060	663.764	670.863
160	795.690	772.398	750.276	734.976	720.348	705.906	701.928	698.424	696.128	702.879
165	780.146	768.662	757.318	746.170	734.686	731.647	728.956	726.601	724.919	730.243
170	770.147	763.187	756.216	753.919	751.796	749.859	748.119	746.530	745.254	749.047
175	765.797	765.008	764.220	763.431	762.654	761.900	761.134	760.461	759.788	761.772
180	764.440	764.440	764.440	764.440	764.440	764.440	764.440	764.440	764.440	764.440

Vert. Angles **Horizontal Angles**

	100	105	110	115	120	125	130	135	140	145
0	503.962	503.962	503.962	503.962	503.962	503.962	503.962	503.962	503.962	503.962
5	477.131	465.090	453.328	441.948	431.021	420.651	410.907	401.859	393.576	386.118
10	447.122	423.539	400.548	378.299	356.410	342.513	329.127	316.715	305.393	295.232
15	413.737	379.424	346.620	323.988	302.261	281.613	262.160	248.031	237.846	228.369
20	377.093	334.672	305.126	276.428	248.692	231.385	216.038	201.538	188.941	182.190
25	337.792	297.308	263.192	231.803	212.234	193.268	178.454	168.502	159.384	151.879
30	296.450	259.353	222.488	199.833	178.489	164.569	152.842	143.446	137.924	132.692
35	259.237	222.117	192.050	169.836	153.804	141.392	132.727	126.266	121.487	118.320
40	222.210	187.804	164.442	145.023	132.530	123.320	116.522	112.265	108.680	106.639
45	188.001	159.245	139.362	125.199	114.446	107.892	103.298	99.830	98.055	96.651
50	156.554	134.490	117.752	107.323	99.957	94.749	91.304	89.517	88.160	87.522
55	128.818	112.033	99.830	91.304	86.072	82.673	80.481	79.402	78.799	78.567
60	104.145	91.802	82.998	77.024	73.115	70.795	69.751	69.159	68.974	69.217
65	81.606	72.987	66.932	63.185	60.749	59.253	58.754	58.487	58.592	58.603
70	61.410	55.703	51.782	49.718	48.128	47.293	47.096	47.108	47.282	47.374
75	41.969	38.964	36.934	36.030	35.415	35.392	35.496	35.740	35.879	36.053
80	24.302	23.432	23.119	23.142	23.107	23.699	23.954	24.267	24.731	25.114
85	10.324	10.916	11.646	11.994	11.797	11.751	11.577	11.449	11.298	11.507
90	1.346	1.346	1.253	1.346	1.346	1.450	1.543	1.543	1.543	1.543
95	31.123	31.923	35.032	40.681	46.504	53.673	60.506	63.626	66.944	72.906
100	90.225	92.742	97.498	104.400	115.443	131.509	147.204	159.674	167.481	173.675
105	154.106	157.006	164.998	178.837	199.717	224.019	247.382	267.728	282.970	291.740
110	221.282	228.624	240.746	260.269	289.304	322.863	355.320	381.408	395.862	421.892
115	287.726	297.969	315.184	339.822	369.970	406.951	460.624	500.969	528.809	547.218
120	352.188	365.528	387.127	416.776	456.854	507.164	557.310	603.154	640.030	669.714
125	400.583	420.720	450.126	485.240	534.853	587.157	643.092	698.529	738.433	769.648
130	464.684	482.386	509.391	549.144	599.801	657.268	717.205	770.240	817.986	855.546
135	515.910	534.563	565.280	605.903	655.655	713.249	771.818	832.404	877.946	922.293

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CANDELA TABULATION - (Cont.)

140	561.927	581.137	612.654	651.444	700.895	755.775	814.761	869.629	921.295	961.431
145	605.021	625.565	653.509	689.643	734.373	785.784	837.462	890.346	938.231	979.411
150	643.788	664.262	686.813	720.430	757.364	801.212	846.266	890.915	934.426	974.887
155	679.714	695.501	716.335	739.894	772.282	805.945	841.580	877.679	913.918	949.251
160	710.825	719.745	737.516	755.914	774.880	800.748	827.660	853.772	878.828	904.464
165	736.217	742.481	749.592	763.326	777.270	791.340	805.481	822.359	840.536	856.811
170	753.153	757.376	761.749	766.250	770.936	779.810	788.719	797.396	805.771	813.786
175	763.756	765.809	767.816	769.799	771.748	773.639	775.472	777.212	778.870	780.413
180	764.440	764.440	764.440	764.440	764.440	764.440	764.440	764.440	764.440	764.440

Vert. Horizontal Angles
Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	503.962	503.962	503.962	503.962	503.962	503.962	503.962
5	379.552	373.938	369.298	365.678	360.946	361.073	361.212
10	286.334	278.319	271.672	266.464	262.740	259.759	259.875
15	220.029	212.906	207.095	202.176	198.557	195.646	195.727
20	176.297	170.949	166.483	163.061	160.335	158.062	158.166
25	147.761	144.258	141.230	138.736	137.019	135.859	135.627
30	128.969	126.614	124.619	123.041	121.962	121.266	121.174
35	115.524	113.854	112.624	111.882	111.290	111.000	110.966
40	105.003	103.820	102.973	102.590	102.532	102.579	102.683
45	95.712	94.992	94.598	94.366	94.749	94.923	94.969
50	87.035	86.745	86.374	86.188	86.490	86.884	87.081
55	78.439	78.196	78.045	77.778	77.906	78.045	78.219
60	68.881	68.904	69.032	68.695	68.602	68.614	68.776
65	58.615	58.673	58.824	58.916	58.650	58.476	58.754
70	47.688	47.838	48.059	48.326	47.966	47.827	47.966
75	36.470	36.772	37.004	37.062	36.876	36.784	36.992
80	25.520	25.822	25.833	25.694	25.775	25.010	25.624
85	11.507	11.124	10.846	10.440	9.837	8.978	7.900
90	1.543	1.543	1.543	1.543	1.636	1.636	1.647
95	69.264	65.818	63.939	60.633	55.970	52.919	37.375
100	176.552	177.352	176.239	173.223	170.729	166.367	161.240
105	299.605	301.542	299.431	297.668	295.719	291.183	287.425
110	421.590	429.107	432.726	432.123	431.184	426.683	424.200
115	561.011	569.131	570.720	572.205	570.047	568.609	566.950
120	685.316	695.733	703.436	705.071	705.373	705.999	704.700
125	796.085	808.624	820.920	825.491	828.843	831.430	831.453
130	883.340	903.164	917.061	925.367	931.874	936.770	937.408
135	949.820	976.500	991.812	1003.887	1012.483	1018.434	1019.280
140	995.883	1024.964	1043.002	1057.305	1068.395	1075.738	1078.812
145	1019.501	1045.670	1067.096	1085.099	1097.430	1105.909	1110.027
150	1010.314	1037.956	1061.632	1080.586	1095.342	1103.531	1108.287
155	977.335	1003.945	1026.925	1045.206	1060.031	1067.014	1071.295
160	928.916	949.657	967.939	984.144	994.074	1001.683	1004.061
165	872.076	886.194	899.035	907.584	913.790	919.149	920.843
170	821.454	826.697	831.244	835.072	838.135	840.826	841.858
175	781.840	783.128	784.288	785.297	786.492	786.909	787.338
180	764.440	764.440	764.440	764.440	764.440	764.440	764.440

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	208.02	N.A.	4.40
0-30	473.18	N.A.	10.00
0-40	803.28	N.A.	17.00
0-60	1385.48	N.A.	29.20
0-80	1614.97	N.A.	34.10
0-90	1628.11	N.A.	34.40
10-90	1578.36	N.A.	33.30
20-40	595.25	N.A.	12.60
20-50	920.36	N.A.	19.40
40-70	741.68	N.A.	15.70
60-80	229.49	N.A.	4.80
70-80	70.02	N.A.	1.50
80-90	13.14	N.A.	0.30
90-110	298.91	N.A.	6.30
90-120	727.60	N.A.	15.40
90-130	1288.11	N.A.	27.20
90-150	2410.64	N.A.	50.90
90-180	3109.48	N.A.	65.60
110-180	2810.58	N.A.	59.30
0-180	4737.6	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	49.75
10-20	158.27
20-30	265.16
30-40	330.09
40-50	325.10
50-60	257.10
60-70	159.47
70-80	70.02
80-90	13.14
90-100	60.19
100-110	238.71
110-120	428.70
120-130	560.50
130-140	593.22
140-150	529.32
150-160	394.24
160-170	230.51
170-180	74.09

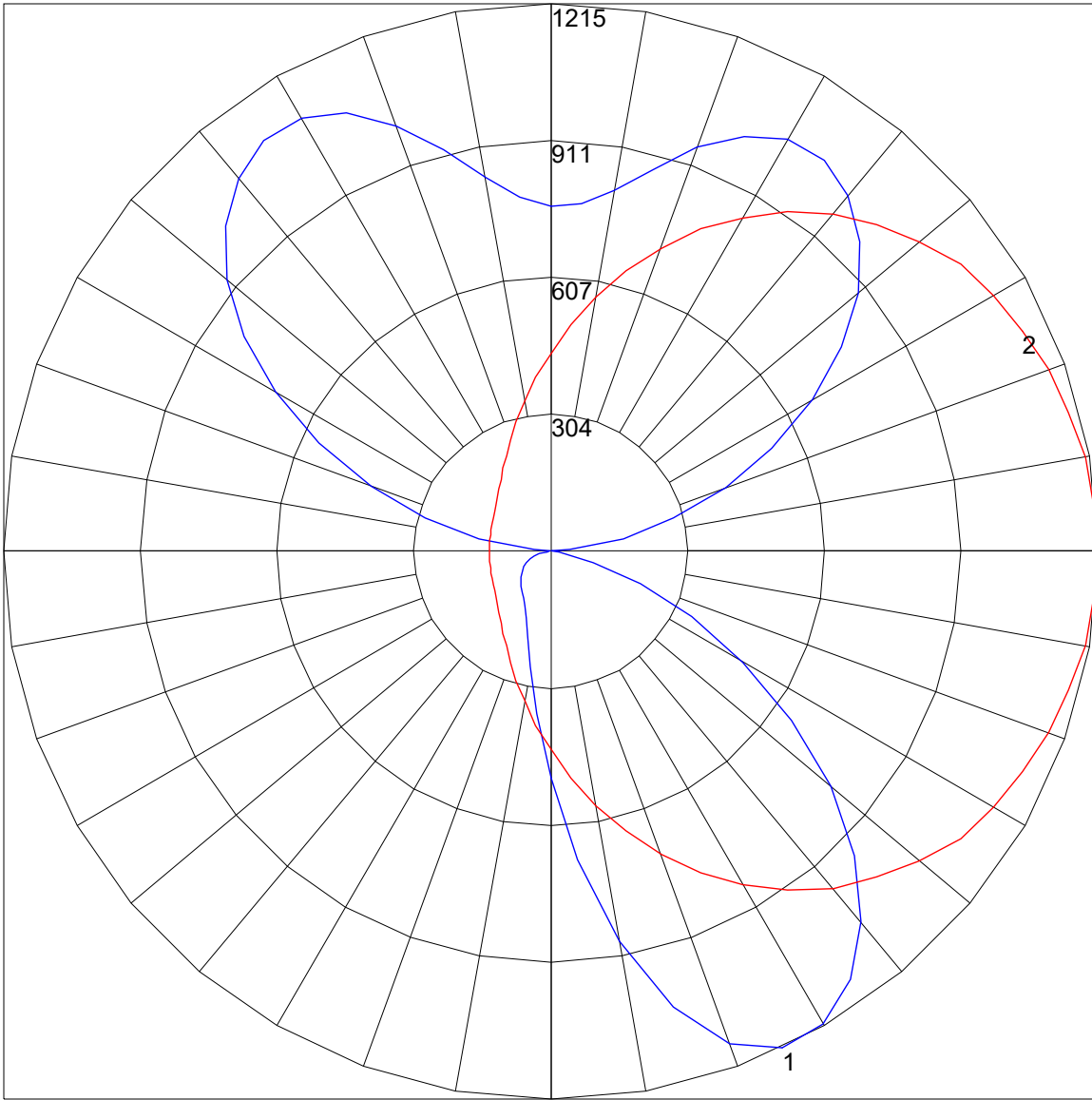
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_SO_35_G1A1.IES

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	75	75	75	58	58	58	42	42	42	34
1	95	90	87	83	85	82	79	76	66	64	62	51	50	48	37	37	36	30
2	86	79	73	68	78	72	67	63	58	54	51	45	43	41	33	32	30	25
3	79	70	63	57	71	63	57	52	51	47	43	40	37	34	29	28	26	21
4	72	62	54	48	65	56	49	44	45	41	37	35	32	30	26	24	22	18
5	66	55	47	41	59	50	43	38	40	35	32	32	28	26	24	21	19	16
6	61	49	41	36	55	45	38	33	36	31	27	29	25	22	21	19	17	14
7	56	44	36	31	50	40	33	29	33	28	24	26	22	20	19	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	16	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	16	14	15	13	11	9

POLAR GRAPH



Maximum Candela = 1214.822 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)