

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-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	83	85	87	89
Total Lumens, 4' rail length (1219mm)	3950	4075	4158	4241
Lumens per foot (305mm)	987	1019	1039	1060
Lumens per foot UP (305mm)	700	722	736	751
Lumens per foot DOWN (305mm)	288	297	303	309
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_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L011800109 (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-BL
 [LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board,
 [MORE] 120° batwing lens up with white polycarbonate reflectors/85° black 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	4158
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	48.12
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	8688	9711	10844
55	5091	5719	6706
65	2346	2863	4406
75	413	984	2912
85	10	35	1348

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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	611.076	611.076	611.076	611.076	611.076	611.076	611.076	611.076	611.076	611.076
5	770.576	770.205	769.822	764.011	759.464	753.780	747.017	739.233	730.464	720.801
10	893.293	892.249	887.458	881.786	874.373	865.267	854.549	840.629	825.514	809.239
15	964.378	962.626	957.592	951.803	943.938	932.269	919.404	905.461	890.544	872.842
20	986.916	984.643	980.954	975.885	966.570	957.035	946.467	932.536	918.998	896.320
25	970.166	967.196	964.981	958.253	951.560	942.686	932.698	924.346	903.153	880.869
30	916.226	913.744	911.841	906.644	901.018	894.244	887.052	874.014	857.553	837.648
35	836.662	834.249	831.917	829.829	824.168	818.032	810.527	796.154	782.954	762.259
40	738.212	736.867	734.152	731.206	728.225	723.504	712.136	700.849	686.070	665.074
45	624.556	624.741	623.465	621.772	618.280	613.141	603.397	593.792	575.430	557.624
50	506.085	505.632	505.644	504.681	501.549	498.000	491.237	479.161	456.622	433.295
55	388.948	389.203	390.723	390.943	384.389	386.964	381.304	371.351	357.292	341.075
60	281.265	281.729	283.562	284.548	284.652	282.970	278.620	272.588	262.612	247.312
65	184.359	185.797	188.280	190.240	191.655	192.003	190.275	186.400	180.415	171.889
70	101.338	103.136	106.186	108.576	112.207	114.515	115.362	114.759	112.346	108.982
75	32.364	35.310	40.078	41.064	45.194	49.486	52.664	55.239	58.974	57.687
80	2.123	5.382	4.454	5.568	6.728	8.016	9.245	12.528	13.792	17.632
85	0.766	1.102	1.183	1.230	1.241	1.253	1.160	1.172	1.357	1.926
90	1.067	1.160	1.160	1.160	1.056	1.056	1.056	1.056	1.056	1.056
95	29.476	47.514	49.532	53.209	56.353	58.998	60.633	67.593	62.756	57.084
100	146.984	153.990	157.482	160.799	162.690	163.305	163.142	161.426	154.396	146.218
105	266.429	271.776	275.871	278.006	279.966	281.555	279.676	273.690	265.663	250.409
110	396.268	400.652	404.353	406.209	408.262	406.684	404.306	396.128	381.234	357.906
115	532.660	535.004	537.579	538.344	538.112	536.013	528.786	516.490	499.322	470.658
120	665.202	665.840	667.452	667.081	665.910	658.787	648.881	637.327	607.573	571.648
125	787.918	787.721	787.106	784.195	780.854	769.532	758.130	733.364	703.180	665.190
130	891.367	890.520	888.131	881.554	873.921	861.196	842.299	816.083	779.868	734.860
135	972.660	971.059	966.210	957.638	946.177	932.048	906.076	879.384	835.977	792.373
140	1029.500	1026.530	1019.408	1008.481	994.642	977.462	948.868	915.020	875.174	825.908
145	1059.161	1055.252	1046.865	1034.256	1016.230	994.723	968.751	930.935	891.448	845.164
150	1056.853	1052.781	1044.800	1029.001	1009.710	986.742	960.434	926.794	887.829	845.234
155	1021.020	1016.821	1009.989	994.828	976.407	954.112	928.464	901.169	866.543	830.572
160	955.712	953.300	945.771	935.969	919.857	901.482	880.521	856.138	830.618	805.736
165	874.037	872.436	867.181	861.056	852.461	839.098	824.505	808.845	792.257	774.114
170	795.238	794.182	791.433	788.290	784.369	779.694	774.288	766.238	757.851	749.082
175	739.175	738.734	738.294	737.006	735.939	734.698	733.306	731.774	730.116	728.341
180	713.400	713.400	713.400	713.400	713.400	713.400	713.400	713.400	713.400	713.400

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	611.076	611.076	611.076	611.076	611.076	611.076	611.076	611.076	611.076	611.076
5	710.303	699.062	687.161	674.679	661.734	648.394	634.752	620.983	607.121	592.250
10	791.955	773.790	755.322	729.292	703.134	676.431	649.368	622.085	594.894	565.802
15	849.990	820.909	791.120	760.832	730.220	691.360	651.897	612.422	573.504	531.384
20	869.490	841.383	812.731	771.562	730.812	690.618	640.181	589.582	540.270	487.641
25	859.827	829.354	792.860	757.828	709.885	661.502	609.870	551.023	494.717	435.580
30	812.394	784.589	752.040	708.400	667.058	612.932	562.519	498.313	438.364	376.408
35	737.528	712.634	676.895	638.348	593.224	543.506	489.392	430.140	371.513	312.539
40	641.677	612.793	579.768	543.251	497.768	450.996	402.265	350.981	297.157	245.792
45	531.976	505.296	472.828	437.633	401.441	362.651	317.480	271.765	227.035	184.823
50	422.553	398.878	368.961	337.722	307.412	272.530	235.434	198.824	164.813	134.688
55	321.111	298.538	274.584	248.750	222.616	195.356	168.212	141.949	116.452	98.148
60	231.803	214.136	195.588	176.053	156.020	136.103	116.870	99.412	89.482	69.333

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CANDELA TABULATION - (Cont.)

65	159.419	145.858	133.040	119.515	106.801	96.408	85.620	68.069	58.464	48.952
70	101.361	93.821	85.654	77.442	69.322	61.584	53.882	46.319	40.554	34.591
75	55.866	53.662	49.474	45.716	41.331	36.586	32.712	29.348	25.532	22.620
80	20.660	21.483	21.541	20.636	19.697	18.200	16.542	15.463	14.059	12.864
85	2.726	3.318	3.445	3.515	4.524	5.243	5.104	5.510	5.394	5.127
90	1.056	0.870	0.963	0.963	0.870	0.870	0.963	0.870	0.963	1.253
95	54.671	48.755	41.412	36.447	33.478	30.694	27.399	28.258	27.747	26.146
100	136.138	121.220	107.532	98.925	92.429	89.192	86.930	85.515	86.594	84.181
105	232.174	209.844	186.203	168.467	155.278	145.313	140.882	139.618	136.683	136.103
110	333.732	303.050	270.721	245.201	227.024	213.069	205.865	201.306	199.775	199.102
115	429.096	393.391	356.422	322.248	296.577	278.528	268.204	263.274	259.399	258.657
120	529.296	483.871	435.661	388.786	361.120	343.151	329.753	320.496	317.573	318.234
125	612.399	558.737	505.087	451.054	419.781	398.970	384.668	375.620	371.328	371.339
130	683.623	624.776	568.574	518.346	478.744	451.878	433.840	423.272	419.096	418.412
135	734.187	676.674	619.765	570.755	530.387	500.830	481.632	469.336	463.026	464.893
140	773.581	716.486	662.905	614.278	575.917	545.246	524.784	511.618	504.345	506.444
145	794.264	744.558	694.712	650.528	613.408	585.058	564.270	552.299	544.318	546.151
150	801.073	756.749	714.073	676.988	642.559	620.090	599.766	589.906	582.169	583.503
155	794.368	759.058	725.905	693.854	670.178	649.066	632.815	623.372	615.600	617.236
160	779.764	752.979	727.204	707.971	689.353	671.385	661.861	653.242	645.749	648.069
165	757.178	742.725	728.271	713.922	699.735	691.998	685.061	678.414	672.429	674.111
170	740.034	730.754	721.520	716.346	711.370	706.521	701.823	697.276	693.042	694.132
175	726.450	724.490	722.448	720.348	718.202	716.033	713.806	711.660	709.514	710.013
180	713.400	713.400	713.400	713.400	713.400	713.400	713.400	713.400	713.400	713.400

Vert. Angles **Horizontal Angles**

	100	105	110	115	120	125	130	135	140	145
0	611.076	611.076	611.076	611.076	611.076	611.076	611.076	611.076	611.076	611.076
5	577.518	563.076	548.958	535.294	522.197	509.762	498.081	487.246	477.328	468.420
10	537.173	509.066	481.713	455.300	430.012	409.178	389.725	371.699	355.250	340.506
15	490.170	449.755	413.053	378.369	347.223	317.573	289.606	267.682	250.340	234.088
20	436.462	388.670	345.100	304.825	265.907	237.962	212.419	187.955	166.425	154.152
25	378.450	326.981	279.653	235.492	203.754	172.747	148.097	130.906	114.678	100.955
30	316.982	266.696	217.094	181.958	147.900	125.060	105.456	89.564	80.040	70.540
35	257.230	208.684	167.666	134.409	109.771	89.865	75.992	65.204	57.176	51.968
40	199.311	157.145	125.744	98.554	80.516	66.688	56.179	49.555	43.790	40.484
45	148.271	116.255	92.081	74.136	59.844	50.785	44.242	38.872	36.157	33.489
50	108.147	85.654	67.686	55.947	47.096	40.438	35.960	33.141	30.891	29.441
55	79.263	63.661	51.968	43.222	37.549	33.652	30.810	28.733	27.399	26.332
60	57.095	47.653	40.333	34.823	30.891	28.327	26.657	25.056	23.884	23.096
65	41.679	35.809	31.378	28.072	25.566	23.803	22.365	21.147	20.648	20.277
70	30.218	26.587	23.931	21.808	20.300	19.105	18.235	17.632	17.412	17.307
75	20.346	18.664	16.843	15.846	15.289	14.662	14.198	13.734	13.595	13.630
80	11.844	10.881	10.637	10.301	10.046	9.814	9.500	9.512	9.674	9.698
85	5.058	4.918	5.232	5.359	4.918	4.652	4.420	4.246	4.257	4.257
90	1.160	1.056	1.056	1.056	1.253	1.253	1.253	1.253	1.253	1.346
95	27.585	29.418	31.888	35.798	38.454	41.447	45.750	49.706	46.319	45.762
100	86.037	87.244	90.724	96.025	104.667	112.717	123.308	130.059	131.324	134.490
105	139.142	142.146	146.740	157.899	174.847	192.084	207.663	220.191	229.065	233.392
110	201.260	207.269	215.702	231.026	253.959	279.664	303.120	322.526	337.548	337.212
115	261.905	269.642	282.634	303.421	334.115	371.502	407.427	430.615	446.414	454.836
120	322.352	330.066	344.566	368.022	403.204	451.194	496.724	531.164	559.016	577.831
125	375.631	385.398	402.172	429.722	473.825	522.847	573.666	625.774	662.546	688.008
130	423.702	435.568	455.636	490.170	534.273	585.127	640.761	691.499	735.811	771.191
135	471.204	483.268	506.642	540.641	583.410	635.042	689.318	745.683	788.440	829.864

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CANDELA TABULATION - (Cont.)

140	513.149	525.828	550.420	582.227	625.078	673.740	726.601	777.618	826.454	864.525
145	551.916	566.648	588.491	618.384	656.838	701.522	747.191	794.646	838.924	878.201
150	586.809	602.086	619.185	646.874	677.266	714.978	754.754	794.519	834.075	871.322
155	620.542	631.284	647.176	665.538	692.404	720.580	751.274	783.360	815.747	847.635
160	651.502	655.342	669.076	682.985	697.589	719.212	741.971	763.988	785.065	807.569
165	676.454	679.087	682.034	693.170	703.992	715.047	726.253	740.126	755.253	768.686
170	695.559	697.160	698.981	700.988	703.180	710.175	717.170	724.014	730.638	736.994
175	710.535	711.150	711.753	712.391	713.040	713.702	714.386	715.070	715.766	716.451
180	713.400	713.400	713.400	713.400	713.400	713.400	713.400	713.400	713.400	713.400

Vert. Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	611.076	611.076	611.076	611.076	611.076	611.076	611.076
5	460.578	453.862	448.340	444.036	441.009	439.280	438.851
10	327.607	315.868	306.170	298.607	293.260	290.162	289.350
15	219.739	207.443	197.316	188.941	182.874	179.348	178.385
20	143.225	133.203	124.793	118.262	113.274	110.270	109.423
25	93.450	86.919	81.281	76.618	73.289	71.120	70.505
30	63.707	59.798	56.376	53.511	51.388	50.054	49.706
35	46.887	44.382	42.421	40.762	39.486	38.732	38.535
40	37.770	35.612	34.487	33.512	32.782	32.318	32.167
45	32.051	30.543	29.835	29.325	28.919	28.571	28.513
50	28.374	27.666	27.028	26.657	26.413	26.204	26.204
55	25.740	25.195	24.870	24.650	24.406	24.256	24.279
60	22.655	22.411	22.446	22.527	22.678	22.620	22.736
65	20.056	19.987	19.929	20.068	20.207	20.683	20.810
70	17.539	17.644	17.620	17.516	17.122	17.481	17.922
75	13.804	14.175	14.639	14.941	14.732	13.897	15.022
80	9.988	10.208	10.568	10.892	11.252	10.753	11.368
85	4.362	4.501	4.582	4.826	5.081	5.371	5.011
90	1.346	1.346	1.346	1.346	1.253	1.253	1.114
95	43.454	42.537	42.131	42.700	43.941	47.316	42.572
100	133.667	135.117	137.124	139.270	141.056	139.026	166.634
105	235.248	239.227	243.809	247.672	247.184	248.437	281.648
110	348.522	354.879	355.784	353.348	358.672	389.331	402.242
115	463.269	467.724	471.610	481.214	502.373	526.605	527.464
120	586.078	596.252	609.568	626.957	642.118	646.271	647.674
125	715.859	726.485	741.878	749.209	753.629	756.923	759.406
130	798.590	818.102	831.917	840.536	847.415	853.018	855.152
135	857.716	884.709	900.032	912.096	921.887	928.940	930.668
140	898.223	927.675	944.588	958.810	970.676	979.376	982.485
145	916.423	942.280	963.392	981.418	994.828	1003.864	1007.727
150	904.522	931.074	953.914	972.846	988.169	996.138	1000.210
155	872.923	896.970	918.059	935.308	949.402	955.968	959.946
160	828.994	847.299	863.539	877.992	887.122	893.096	896.761
165	781.295	792.964	803.590	810.678	815.874	819.668	822.022
170	743.119	747.144	750.671	753.687	756.158	758.072	759.406
175	717.124	717.796	718.434	719.049	719.641	720.186	720.685
180	713.400	713.400	713.400	713.400	713.400	713.400	713.400

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	217.97	N.A.	5.20
0-30	450.41	N.A.	10.80
0-40	704.83	N.A.	17.00
0-60	1083.4	N.A.	26.10
0-80	1206.88	N.A.	29.00
0-90	1212.52	N.A.	29.20
10-90	1155.19	N.A.	27.80
20-40	486.87	N.A.	11.70
20-50	708.60	N.A.	17.00
40-70	467.92	N.A.	11.30
60-80	123.48	N.A.	3.00
70-80	34.13	N.A.	0.80
80-90	5.64	N.A.	0.10
90-110	285.55	N.A.	6.90
90-120	692.92	N.A.	16.70
90-130	1225.95	N.A.	29.50
90-150	2288.77	N.A.	55.00
90-180	2945.18	N.A.	70.80
110-180	2659.63	N.A.	64.00
0-180	4157.7	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	57.33
10-20	160.64
20-30	232.44
30-40	254.42
40-50	221.73
50-60	156.84
60-70	89.34
70-80	34.13
80-90	5.64
90-100	57.83
100-110	227.73
110-120	407.37
120-130	533.03
130-140	562.50
140-150	500.32
150-160	371.09
160-170	216.04
170-180	69.27

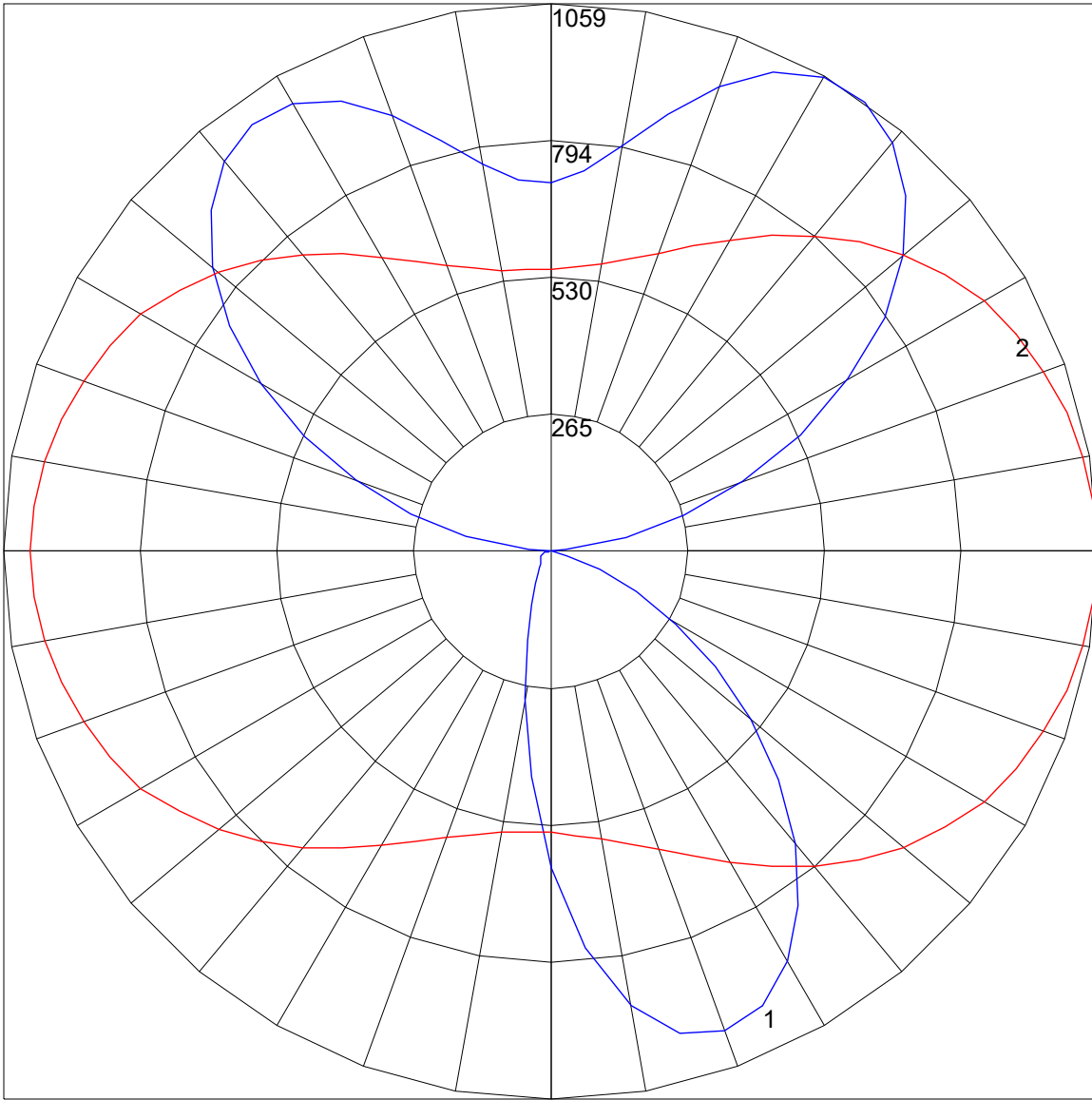
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_SO_35_G1A1_BL.IES

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	33	33	32	26
2	86	79	73	68	77	71	66	62	56	53	50	43	41	39	30	29	28	22
3	78	70	63	57	70	63	57	52	50	46	43	38	35	33	27	25	24	19
4	72	62	54	49	64	56	50	45	45	40	37	34	31	29	24	23	21	17
5	66	55	48	42	59	50	43	39	40	35	32	31	28	25	22	20	19	15
6	61	49	42	36	54	45	38	34	36	31	28	28	25	22	20	18	17	13
7	56	45	37	32	50	41	34	29	33	28	25	25	22	20	19	16	15	12
8	52	40	33	28	47	37	30	26	30	25	22	23	20	18	17	15	13	11
9	48	37	30	25	44	34	27	23	27	23	19	21	18	16	16	14	12	10
10	45	34	27	22	41	31	25	21	25	21	18	20	17	14	15	13	11	9

POLAR GRAPH



Maximum Candela = 1059.161 Located At Horizontal Angle = 0, Vertical Angle = 145
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (145) (Through Max. Cd.)