

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	67	69	70	71
Total Lumens, 4' rail length (1219mm)	1975	2037	2079	2120
Lumens per foot (305mm)	494	509	520	530
Lumens per foot UP (305mm)	350	361	368	376
Lumens per foot DOWN (305mm)	144	149	152	155
Input Power (W), 4' rail length (1219mm)	29.9	29.9	29.9	29.9
Watts per foot (305mm)	7.5	7.5	7.5	7.5
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_LO_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-LO-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, low output
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2079
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	29.9
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	4344	4855	5422
55	2546	2860	3353
65	1173	1432	2203
75	206	492	1456
85	5	17	674

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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	305.538	305.538	305.538	305.538	305.538	305.538	305.538	305.538	305.538	305.538
5	385.288	385.103	384.911	382.005	379.732	376.890	373.508	369.617	365.232	360.400
10	446.646	446.124	443.729	440.893	437.187	432.634	427.274	420.314	412.757	404.620
15	482.189	481.313	478.796	475.902	471.969	466.134	459.702	452.731	445.272	436.421
20	493.458	492.321	490.477	487.942	483.285	478.517	473.234	466.268	459.499	448.160
25	485.083	483.598	482.490	479.126	475.780	471.343	466.349	462.173	451.576	440.435
30	458.113	456.872	455.921	453.322	450.509	447.122	443.526	437.007	428.777	418.824
35	418.331	417.124	415.959	414.915	412.084	409.016	405.263	398.077	391.477	381.130
40	369.106	368.433	367.076	365.603	364.112	361.752	356.068	350.424	343.035	332.537
45	312.278	312.371	311.733	310.886	309.140	306.571	301.699	296.896	287.715	278.812
50	253.042	252.816	252.822	252.341	250.775	249.000	245.618	239.581	228.311	216.647
55	194.474	194.602	195.361	195.472	192.195	193.482	190.652	185.675	178.646	170.537
60	140.633	140.865	141.781	142.274	142.326	141.485	139.310	136.294	131.306	123.656
65	92.179	92.899	94.140	95.120	95.828	96.002	95.137	93.200	90.207	85.944
70	50.669	51.568	53.093	54.288	56.103	57.258	57.681	57.379	56.173	54.491
75	16.182	17.655	20.039	20.532	22.597	24.743	26.332	27.620	29.487	28.843
80	1.061	2.691	2.227	2.784	3.364	4.008	4.623	6.264	6.896	8.816
85	0.383	0.551	0.592	0.615	0.621	0.626	0.580	0.586	0.679	0.963
90	0.534	0.580	0.580	0.580	0.528	0.528	0.528	0.528	0.528	0.528
95	14.738	23.757	24.766	26.605	28.176	29.499	30.317	33.797	31.378	28.542
100	73.492	76.995	78.741	80.400	81.345	81.652	81.571	80.713	77.198	73.109
105	133.214	135.888	137.936	139.003	139.983	140.778	139.838	136.845	132.832	125.205
110	198.134	200.326	202.176	203.104	204.131	203.342	202.153	198.064	190.617	178.953
115	266.330	267.502	268.789	269.172	269.056	268.006	264.393	258.245	249.661	235.329
120	332.601	332.920	333.726	333.541	332.955	329.394	324.440	318.664	303.787	285.824
125	393.959	393.861	393.553	392.097	390.427	384.766	379.065	366.682	351.590	332.595
130	445.684	445.260	444.065	440.777	436.960	430.598	421.150	408.042	389.934	367.430
135	486.330	485.530	483.105	478.819	473.089	466.024	453.038	439.692	417.989	396.186
140	514.750	513.265	509.704	504.240	497.321	488.731	474.434	457.510	437.587	412.954
145	529.581	527.626	523.433	517.128	508.115	497.362	484.375	465.467	445.724	422.582
150	528.426	526.391	522.400	514.501	504.855	493.371	480.217	463.397	443.915	422.617
155	510.510	508.411	504.994	497.414	488.203	477.056	464.232	450.585	433.272	415.286
160	477.856	476.650	472.886	467.985	459.928	450.741	440.261	428.069	415.309	402.868
165	437.018	436.218	433.591	430.528	426.230	419.549	412.252	404.422	396.128	387.057
170	397.619	397.091	395.717	394.145	392.184	389.847	387.144	383.119	378.926	374.541
175	369.588	369.367	369.147	368.503	367.969	367.349	366.653	365.887	365.058	364.170
180	356.700	356.700	356.700	356.700	356.700	356.700	356.700	356.700	356.700	356.700

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	305.538	305.538	305.538	305.538	305.538	305.538	305.538	305.538	305.538	305.538
5	355.151	349.531	343.580	337.340	330.867	324.197	317.376	310.491	303.560	296.125
10	395.978	386.895	377.661	364.646	351.567	338.215	324.684	311.042	297.447	282.901
15	424.995	410.454	395.560	380.416	365.110	345.680	325.948	306.211	286.752	265.692
20	434.745	420.691	406.365	385.781	365.406	345.309	320.090	294.791	270.135	243.820
25	429.913	414.677	396.430	378.914	354.943	330.751	304.935	275.512	247.358	217.790
30	406.197	392.295	376.020	354.200	333.529	306.466	281.259	249.156	219.182	188.204
35	368.764	356.317	338.447	319.174	296.612	271.753	244.696	215.070	185.757	156.269
40	320.839	306.397	289.884	271.626	248.884	225.498	201.132	175.491	148.579	122.896
45	265.988	252.648	236.414	218.817	200.721	181.325	158.740	135.882	113.518	92.411
50	211.277	199.439	184.481	168.861	153.706	136.265	117.717	99.412	82.406	67.344
55	160.556	149.269	137.292	124.375	111.308	97.678	84.106	70.975	58.226	49.074
60	115.901	107.068	97.794	88.027	78.010	68.051	58.435	49.706	44.741	34.667

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CANDELA TABULATION - (Cont.)

65	79.709	72.929	66.520	59.757	53.401	48.204	42.810	34.034	29.232	24.476
70	50.680	46.910	42.827	38.721	34.661	30.792	26.941	23.159	20.277	17.296
75	27.933	26.831	24.737	22.858	20.665	18.293	16.356	14.674	12.766	11.310
80	10.330	10.742	10.771	10.318	9.848	9.100	8.271	7.731	7.030	6.432
85	1.363	1.659	1.723	1.757	2.262	2.622	2.552	2.755	2.697	2.564
90	0.528	0.435	0.481	0.481	0.435	0.435	0.481	0.435	0.481	0.626
95	27.335	24.377	20.706	18.224	16.739	15.347	13.700	14.129	13.874	13.073
100	68.069	60.610	53.766	49.462	46.214	44.596	43.465	42.758	43.297	42.091
105	116.087	104.922	93.102	84.233	77.639	72.657	70.441	69.809	68.341	68.051
110	166.866	151.525	135.360	122.600	113.512	106.534	102.933	100.653	99.888	99.551
115	214.548	196.695	178.211	161.124	148.289	139.264	134.102	131.637	129.700	129.328
120	264.648	241.935	217.831	194.393	180.560	171.576	164.877	160.248	158.787	159.117
125	306.199	279.369	252.544	225.527	209.890	199.485	192.334	187.810	185.664	185.670
130	341.811	312.388	284.287	259.173	239.372	225.939	216.920	211.636	209.548	209.206
135	367.094	338.337	309.882	285.377	265.193	250.415	240.816	234.668	231.513	232.447
140	386.790	358.243	331.453	307.139	287.958	272.623	262.392	255.809	252.172	253.222
145	397.132	372.279	347.356	325.264	306.704	292.529	282.135	276.150	272.159	273.076
150	400.536	378.375	357.036	338.494	321.279	310.045	299.883	294.953	291.085	291.752
155	397.184	379.529	362.952	346.927	335.089	324.533	316.407	311.686	307.800	308.618
160	389.882	376.490	363.602	353.986	344.677	335.692	330.931	326.621	322.874	324.034
165	378.589	371.362	364.136	356.961	349.868	345.999	342.531	339.207	336.214	337.055
170	370.017	365.377	360.760	358.173	355.685	353.261	350.912	348.638	346.521	347.066
175	363.225	362.245	361.224	360.174	359.101	358.017	356.903	355.830	354.757	355.006
180	356.700	356.700	356.700	356.700	356.700	356.700	356.700	356.700	356.700	356.700

Vert. Angles **Horizontal Angles**

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	305.538	305.538	305.538	305.538	305.538	305.538	305.538	305.538	305.538	305.538
5	288.759	281.538	274.479	267.647	261.099	254.881	249.040	243.623	238.664	234.210
10	268.586	254.533	240.857	227.650	215.006	204.589	194.863	185.849	177.625	170.253
15	245.085	224.878	206.526	189.184	173.611	158.787	144.803	133.841	125.170	117.044
20	218.231	194.335	172.550	152.412	132.953	118.981	106.210	93.977	83.213	77.076
25	189.225	163.490	139.826	117.746	101.877	86.374	74.049	65.453	57.339	50.477
30	158.491	133.348	108.547	90.979	73.950	62.530	52.728	44.782	40.020	35.270
35	128.615	104.342	83.833	67.205	54.885	44.933	37.996	32.602	28.588	25.984
40	99.656	78.573	62.872	49.277	40.258	33.344	28.089	24.778	21.895	20.242
45	74.136	58.128	46.040	37.068	29.922	25.392	22.121	19.436	18.079	16.745
50	54.073	42.827	33.843	27.973	23.548	20.219	17.980	16.571	15.445	14.720
55	39.631	31.830	25.984	21.611	18.775	16.826	15.405	14.367	13.700	13.166
60	28.548	23.826	20.167	17.412	15.445	14.164	13.328	12.528	11.942	11.548
65	20.839	17.905	15.689	14.036	12.783	11.902	11.182	10.573	10.324	10.138
70	15.109	13.294	11.965	10.904	10.150	9.553	9.118	8.816	8.706	8.654
75	10.173	9.332	8.422	7.923	7.644	7.331	7.099	6.867	6.798	6.815
80	5.922	5.440	5.319	5.150	5.023	4.907	4.750	4.756	4.837	4.849
85	2.529	2.459	2.616	2.680	2.459	2.326	2.210	2.123	2.129	2.129
90	0.580	0.528	0.528	0.528	0.626	0.626	0.626	0.626	0.626	0.673
95	13.792	14.709	15.944	17.899	19.227	20.723	22.875	24.853	23.159	22.881
100	43.019	43.622	45.362	48.012	52.333	56.359	61.654	65.030	65.662	67.245
105	69.571	71.073	73.370	78.950	87.423	96.042	103.832	110.096	114.533	116.696
110	100.630	103.634	107.851	115.513	126.979	139.832	151.560	161.263	168.774	168.606
115	130.952	134.821	141.317	151.711	167.057	185.751	203.713	215.308	223.207	227.418
120	161.176	165.033	172.283	184.011	201.602	225.597	248.362	265.582	279.508	288.915
125	187.816	192.699	201.086	214.861	236.913	261.423	286.833	312.887	331.273	344.004
130	211.851	217.784	227.818	245.085	267.136	292.564	320.380	345.750	367.906	385.596
135	235.602	241.634	253.321	270.321	291.705	317.521	344.659	372.841	394.220	414.932

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CANDELA TABULATION - (Cont.)

140	256.575	262.914	275.210	291.114	312.539	336.870	363.300	388.809	413.227	432.262
145	275.958	283.324	294.246	309.192	328.419	350.761	373.595	397.323	419.462	439.101
150	293.405	301.043	309.592	323.437	338.633	357.489	377.377	397.259	417.037	435.661
155	310.271	315.642	323.588	332.769	346.202	360.290	375.637	391.680	407.873	423.818
160	325.751	327.671	334.538	341.492	348.795	359.606	370.985	381.994	392.532	403.784
165	338.227	339.544	341.017	346.585	351.996	357.524	363.126	370.063	377.626	384.343
170	347.780	348.580	349.491	350.494	351.590	355.088	358.585	362.007	365.319	368.497
175	355.267	355.575	355.876	356.195	356.520	356.851	357.193	357.535	357.883	358.225
180	356.700	356.700	356.700	356.700	356.700	356.700	356.700	356.700	356.700	356.700

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	305.538	305.538	305.538	305.538	305.538	305.538	305.538
5	230.289	226.931	224.170	222.018	220.504	219.640	219.426
10	163.804	157.934	153.085	149.304	146.630	145.081	144.675
15	109.869	103.721	98.658	94.470	91.437	89.674	89.192
20	71.613	66.601	62.396	59.131	56.637	55.135	54.711
25	46.725	43.459	40.641	38.309	36.644	35.560	35.252
30	31.854	29.899	28.188	26.755	25.694	25.027	24.853
35	23.444	22.191	21.211	20.381	19.743	19.366	19.268
40	18.885	17.806	17.243	16.756	16.391	16.159	16.083
45	16.025	15.271	14.918	14.662	14.459	14.285	14.256
50	14.187	13.833	13.514	13.328	13.207	13.102	13.102
55	12.870	12.598	12.435	12.325	12.203	12.128	12.139
60	11.327	11.206	11.223	11.264	11.339	11.310	11.368
65	10.028	9.993	9.964	10.034	10.104	10.341	10.405
70	8.770	8.822	8.810	8.758	8.561	8.741	8.961
75	6.902	7.088	7.320	7.470	7.366	6.948	7.511
80	4.994	5.104	5.284	5.446	5.626	5.377	5.684
85	2.181	2.250	2.291	2.413	2.540	2.685	2.506
90	0.673	0.673	0.673	0.673	0.626	0.626	0.557
95	21.727	21.269	21.066	21.350	21.970	23.658	21.286
100	66.833	67.558	68.562	69.635	70.528	69.513	83.317
105	117.624	119.613	121.904	123.836	123.592	124.219	140.824
110	174.261	177.439	177.892	176.674	179.336	194.665	201.121
115	231.635	233.862	235.805	240.607	251.186	263.303	263.732
120	293.039	298.126	304.784	313.478	321.059	323.135	323.837
125	357.930	363.242	370.939	374.605	376.814	378.462	379.703
130	399.295	409.051	415.959	420.268	423.707	426.509	427.576
135	428.858	442.354	450.016	456.048	460.943	464.470	465.334
140	449.111	463.838	472.294	479.405	485.338	489.688	491.243
145	458.212	471.140	481.696	490.709	497.414	501.932	503.863
150	452.261	465.537	476.957	486.423	494.085	498.069	500.105
155	436.462	448.485	459.029	467.654	474.701	477.984	479.973
160	414.497	423.649	431.769	438.996	443.561	446.548	448.381
165	390.647	396.482	401.795	405.339	407.937	409.834	411.011
170	371.560	373.572	375.335	376.843	378.079	379.036	379.703
175	358.562	358.898	359.217	359.525	359.820	360.093	360.342
180	356.700	356.700	356.700	356.700	356.700	356.700	356.700

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	108.98	N.A.	5.20
0-30	225.20	N.A.	10.80
0-40	352.42	N.A.	17.00
0-60	541.70	N.A.	26.10
0-80	603.44	N.A.	29.00
0-90	606.26	N.A.	29.20
10-90	577.60	N.A.	27.80
20-40	243.43	N.A.	11.70
20-50	354.30	N.A.	17.00
40-70	233.96	N.A.	11.30
60-80	61.74	N.A.	3.00
70-80	17.07	N.A.	0.80
80-90	2.82	N.A.	0.10
90-110	142.78	N.A.	6.90
90-120	346.46	N.A.	16.70
90-130	612.97	N.A.	29.50
90-150	1144.39	N.A.	55.00
90-180	1472.59	N.A.	70.80
110-180	1329.81	N.A.	64.00
0-180	2078.85	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	28.67
10-20	80.32
20-30	116.22
30-40	127.21
40-50	110.87
50-60	78.42
60-70	44.67
70-80	17.07
80-90	2.82
90-100	28.91
100-110	113.86
110-120	203.68
120-130	266.51
130-140	281.25
140-150	250.16
150-160	185.55
160-170	108.02
170-180	34.64

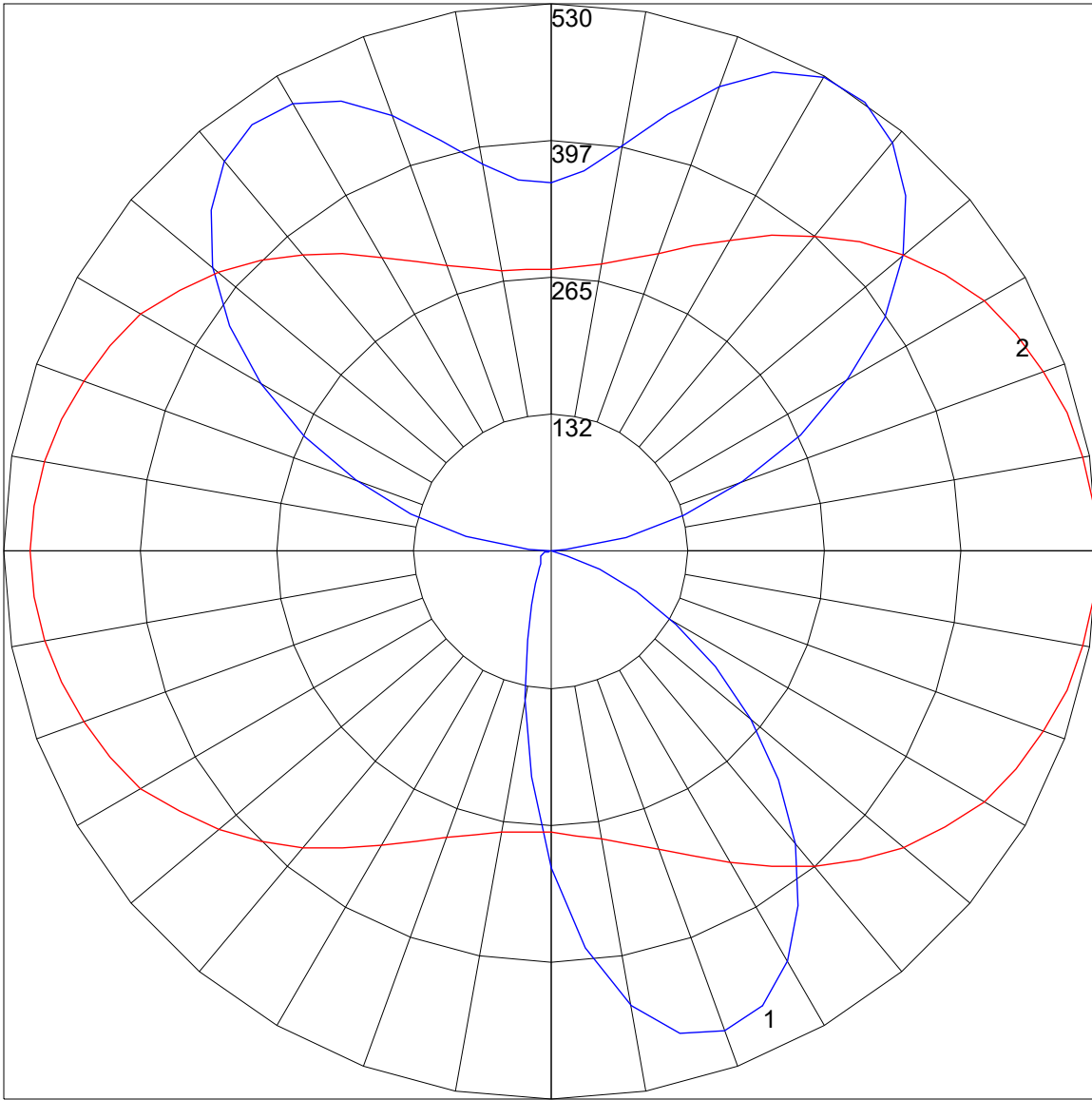
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_LO_35_G1A1_BL.IES

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 = 529.581 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.)