

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	86	89	90	90
Total Lumens, 4' rail length (1219mm)	2356	2430	2480	2480
Lumens per foot (305mm)	589	607	620	620
Lumens per foot UP (305mm)	371	383	391	391
Lumens per foot DOWN (305mm)	218	224	229	229
Input Power (W), 4' rail length (1219mm)	27.6	27.6	27.6	27.6
Watts per foot (305mm)	6.9	6.9	6.9	6.9
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_LO_35_G1A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911511 (SOURCE REPORTS FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 3/18/2020

[MANUFAC] Vode Lighting

[LUMCAT] 107-DB-48-Z-LO-35-G1A1-AL

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

[MORE] 85° asymmetric lens down, low output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2480
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	27.64
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	6493	6726	9361
55	4066	4170	7253
65	2025	2270	5647
75	536	908	4107
85	3	5	1923

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_LO_35_G1A1.IES

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	418.116	418.116	418.116	418.116	418.116	418.116	418.116	418.116	418.116	418.116
5	491.237	490.262	489.775	488.418	486.811	484.868	482.293	479.956	476.215	472.468
10	571.747	570.534	569.270	566.445	562.994	558.088	552.299	545.931	537.863	529.302
15	622.114	621.000	619.440	616.041	611.227	605.584	598.293	589.785	579.281	567.518
20	641.857	641.613	639.520	636.214	631.452	625.130	617.596	607.968	596.495	583.370
25	636.115	635.338	633.348	630.234	625.420	619.295	611.227	601.309	588.909	575.343
30	611.807	611.030	609.035	605.636	600.433	593.624	585.023	574.519	561.196	546.221
35	573.498	572.622	570.436	566.643	560.709	553.030	543.257	530.909	516.519	500.233
40	522.058	521.333	518.897	514.669	508.155	499.745	488.511	474.655	459.145	441.548
45	459.053	458.125	455.990	451.808	445.098	436.154	424.531	410.141	393.953	375.672
50	386.123	385.491	383.740	380.045	374.407	365.267	354.183	340.814	325.397	309.210
55	308.044	307.557	306.246	303.717	299.193	292.146	282.814	271.046	257.868	244.209
60	229.964	229.819	229.378	228.021	225.150	220.481	213.869	205.314	195.541	185.623
65	158.984	159.077	159.320	159.222	158.201	156.066	152.465	147.361	141.282	135.059
70	95.584	95.874	96.651	97.626	98.501	98.646	97.968	96.216	93.734	90.724
75	42.299	42.636	43.854	45.553	47.693	49.979	51.777	52.942	53.430	53.238
80	6.421	6.566	7.001	7.923	9.239	11.136	13.613	16.576	19.494	21.878
85	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.290
90	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830
95	13.178	16.211	15.295	15.643	16.170	17.058	17.499	21.013	23.020	24.569
100	50.901	53.424	54.682	57.287	60.639	64.212	68.330	71.810	76.461	76.867
105	122.177	113.802	121.788	124.978	128.621	134.572	139.084	142.889	146.491	145.568
110	227.778	220.284	221.038	225.852	233.636	234.053	242.156	236.188	230.214	215.917
115	364.344	362.848	349.995	343.377	340.269	338.378	329.098	316.077	299.553	279.096
120	463.669	460.769	454.384	442.372	431.340	415.906	399.521	380.927	352.304	322.335
125	528.281	524.906	517.070	507.169	494.792	471.441	450.370	419.839	389.238	354.780
130	555.901	552.920	544.376	531.448	515.701	494.740	468.112	439.222	406.180	372.209
135	555.605	553.094	545.107	532.539	515.156	495.013	469.551	443.155	412.641	382.168
140	537.619	535.056	527.812	516.548	501.578	482.972	460.990	437.059	411.469	385.172
145	509.223	506.937	501.149	492.200	479.515	464.075	446.072	425.627	404.417	382.777
150	476.163	474.098	469.864	462.567	452.835	440.539	426.085	410.408	394.400	376.994
155	441.838	440.336	437.535	431.955	424.914	415.906	405.310	393.930	382.110	370.150
160	409.555	408.761	406.464	403.315	398.303	392.590	386.025	378.131	369.849	362.430
165	381.895	381.309	379.859	378.148	375.828	372.366	368.520	364.315	359.786	354.542
170	361.230	360.911	360.209	359.426	358.457	357.321	356.016	353.951	351.811	349.578
175	348.835	348.684	348.563	348.197	347.925	347.629	347.310	346.968	346.608	346.231
180	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520

**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	418.116	418.116	418.116	418.116	418.116	418.116	418.116	418.116	418.116	418.116
5	468.628	463.814	457.690	451.223	444.663	437.709	430.412	422.832	415.002	405.327
10	519.924	508.590	495.952	482.438	468.582	453.653	438.242	422.054	405.814	390.305
15	554.538	539.029	521.379	502.274	482.241	460.653	438.144	414.422	390.740	367.163
20	568.394	550.501	529.987	507.036	482.728	455.747	427.303	397.596	367.940	337.798
25	558.963	539.760	517.540	492.501	465.763	434.983	403.094	369.402	335.756	304.152
30	529.111	509.078	486.133	460.317	432.552	400.855	367.697	332.404	297.494	264.579
35	482.142	461.483	438.387	413.059	385.833	355.059	322.822	288.985	255.391	223.642
40	422.687	402.073	379.656	355.836	330.896	302.841	274.009	244.308	213.237	185.333
45	357.245	337.363	317.185	295.597	273.917	249.992	224.321	196.707	174.493	151.299
50	291.224	274.497	257.044	239.151	221.166	201.765	181.830	161.362	141.091	121.301
55	230.011	216.497	202.785	188.738	175.462	160.637	144.055	128.012	112.114	96.361
60	175.949	166.077	155.916	145.708	135.401	124.219	112.068	99.957	87.510	75.504

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_LO_35_G1A1.IES

CANDELA TABULATION - (Cont.)

65	128.499	121.835	115.321	108.611	101.367	93.299	84.547	75.649	66.654	57.664
70	87.464	83.868	80.121	75.992	71.276	66.074	60.430	54.358	48.227	42.398
75	52.606	51.440	49.932	48.036	45.605	42.636	39.382	35.734	31.993	28.542
80	23.583	24.551	24.841	24.650	24.018	22.852	21.443	19.790	17.939	16.286
85	0.922	2.430	4.768	6.513	7.389	7.633	7.534	7.244	6.809	6.513
90	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830
95	24.934	30.850	30.131	24.180	22.492	22.643	22.197	21.373	21.831	21.373
100	76.746	76.427	70.783	63.052	57.785	53.122	48.946	47.351	47.548	47.351
105	141.572	130.564	117.810	102.770	91.512	83.155	77.157	74.118	73.654	74.118
110	196.069	178.257	158.792	138.811	123.789	113.692	106.395	102.706	102.538	102.706
115	252.109	222.273	195.495	172.498	154.999	143.022	134.769	130.367	130.007	130.367
120	290.255	256.256	226.803	203.191	184.225	171.280	163.374	158.276	156.211	158.276
125	318.211	284.461	254.568	229.831	210.018	196.423	188.251	183.309	180.861	183.309
130	338.407	306.826	278.574	254.243	234.564	219.791	209.838	203.528	198.801	203.528
135	351.439	322.973	296.769	275.001	256.923	243.200	234.134	228.497	226.171	228.497
140	358.672	334.498	311.820	291.682	275.935	262.995	254.353	249.087	246.639	249.087
145	361.520	341.434	322.695	305.869	292.105	281.283	273.168	268.923	266.475	268.923
150	360.650	344.920	329.684	317.138	305.341	297.424	290.162	287.170	285.145	287.170
155	357.906	346.190	335.466	325.020	317.498	310.845	305.880	303.299	301.432	303.299
160	354.595	346.312	338.308	332.584	327.062	321.749	319.423	317.451	315.967	317.451
165	349.676	345.686	341.690	337.722	333.807	332.027	330.542	329.191	328.123	329.191
170	347.275	344.926	342.600	341.487	340.466	339.515	338.639	337.815	337.119	337.815
175	345.842	345.442	345.030	344.619	344.207	343.795	343.377	342.989	342.612	342.989
180	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	418.116	418.116	418.116	418.116	418.116	418.116	418.116	418.116	418.116	418.116
5	398.037	389.528	382.237	375.573	368.619	362.303	356.514	350.633	383.061	379.755
10	375.185	359.919	344.996	331.331	317.620	310.764	300.214	289.182	280.378	271.921
15	345.042	322.967	302.110	283.005	264.289	248.002	233.317	249.458	237.696	228.213
20	310.428	283.539	258.697	236.576	215.522	220.238	203.905	188.831	177.457	167.927
25	273.917	244.598	218.150	195.251	173.954	156.745	142.210	131.950	121.788	113.425
30	233.705	204.636	179.011	157.377	137.976	122.809	111.435	100.787	92.620	86.246
35	194.718	168.026	144.785	126.017	109.539	97.138	87.708	79.344	73.173	68.504
40	159.761	136.567	116.974	101.419	88.241	78.370	70.690	64.908	60.482	57.078
45	129.856	110.606	94.708	82.308	71.856	64.566	58.876	54.404	51.243	48.911
50	103.559	88.438	76.328	66.706	58.974	53.430	49.399	46.818	44.532	42.932
55	82.894	71.033	61.840	54.595	48.958	45.310	42.346	40.206	38.750	37.775
60	65.296	56.399	49.399	44.387	40.646	37.828	35.832	35.734	34.713	34.034
65	50.321	44.341	39.330	35.687	32.915	30.972	29.754	28.930	28.391	28.101
70	37.439	33.159	29.899	27.515	25.769	24.604	23.873	23.386	23.142	22.997
75	25.572	23.096	21.199	19.882	18.914	18.380	18.084	17.893	17.841	17.893
80	14.976	13.955	13.178	12.690	12.447	12.302	12.348	12.400	12.592	12.789
85	6.421	6.421	6.513	6.612	6.809	7.099	7.291	7.389	7.343	7.291
90	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830
95	22.197	22.643	22.492	24.180	30.131	30.850	24.934	24.569	23.020	21.013
100	48.946	53.122	57.785	63.052	70.783	76.427	76.746	76.867	76.461	71.810
105	77.157	83.155	91.512	102.770	117.810	130.564	141.572	145.568	146.491	142.889
110	106.395	113.692	123.789	138.811	158.792	178.257	196.069	215.917	230.214	236.188
115	134.769	143.022	154.999	172.498	195.495	222.273	252.109	279.096	299.553	316.077
120	163.374	171.280	184.225	203.191	226.803	256.256	290.255	322.335	352.304	380.927
125	188.251	196.423	210.018	229.831	254.568	284.461	318.211	354.780	389.238	419.839
130	209.838	219.791	234.564	254.243	278.574	306.826	338.407	372.209	406.180	439.222
135	234.134	243.200	256.923	275.001	296.769	322.973	351.439	382.168	412.641	443.155

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_LO_35_G1A1.IES

CANDELA TABULATION - (Cont.)

140	254.353	262.995	275.935	291.682	311.820	334.498	358.672	385.172	411.469	437.059
145	273.168	281.283	292.105	305.869	322.695	341.434	361.520	382.777	404.417	425.627
150	290.162	297.424	305.341	317.138	329.684	344.920	360.650	376.994	394.400	410.408
155	305.880	310.845	317.498	325.020	335.466	346.190	357.906	370.150	382.110	393.930
160	319.423	321.749	327.062	332.584	338.308	346.312	354.595	362.430	369.849	378.131
165	330.542	332.027	333.807	337.722	341.690	345.686	349.676	354.542	359.786	364.315
170	338.639	339.515	340.466	341.487	342.600	344.926	347.275	349.578	351.811	353.951
175	343.377	343.795	344.207	344.619	345.030	345.442	345.842	346.231	346.608	346.968
180	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520

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	418.116	418.116	418.116	418.116	418.116	418.116	418.116
5	377.957	377.470	378.201	380.144	381.066	379.366	422.199
10	265.164	291.467	289.084	288.063	287.286	284.658	322.532
15	219.994	214.403	210.128	207.454	205.459	202.687	231.716
20	160.440	155.237	150.522	147.361	145.220	142.692	162.383
25	106.714	101.610	110.020	107.201	105.258	103.362	115.907
30	81.096	84.402	83.039	80.898	79.344	78.080	85.765
35	64.757	68.260	65.929	64.421	63.493	62.570	67.286
40	54.595	52.751	55.036	54.062	53.528	52.995	56.011
45	47.595	48.958	48.134	47.595	47.357	47.113	49.201
50	41.859	42.688	42.543	42.346	42.247	42.154	43.564
55	37.143	38.118	37.920	37.828	37.729	37.677	38.698
60	33.646	33.449	33.402	33.350	33.350	33.304	34.127
65	27.910	28.733	28.733	28.832	28.930	28.832	29.464
70	22.997	23.728	23.821	23.919	24.018	24.018	24.604
75	17.992	18.624	18.769	18.914	19.012	19.059	19.447
80	12.980	13.514	13.711	13.856	14.053	14.146	14.488
85	7.291	7.343	7.586	7.633	7.731	7.778	7.975
90	2.830	2.830	2.830	2.830	2.830	2.830	2.830
95	17.499	17.058	16.170	15.643	15.295	16.211	13.178
100	68.330	64.212	60.639	57.287	54.682	53.424	50.901
105	139.084	134.572	128.621	124.978	121.788	113.802	122.177
110	242.156	234.053	233.636	225.852	221.038	220.284	227.778
115	329.098	338.378	340.269	343.377	349.995	362.848	364.344
120	399.521	415.906	431.340	442.372	454.384	460.769	463.669
125	450.370	471.441	494.792	507.169	517.070	524.906	528.281
130	468.112	494.740	515.701	531.448	544.376	552.920	555.901
135	469.551	495.013	515.156	532.539	545.107	553.094	555.605
140	460.990	482.972	501.578	516.548	527.812	535.056	537.619
145	446.072	464.075	479.515	492.200	501.149	506.937	509.223
150	426.085	440.539	452.835	462.567	469.864	474.098	476.163
155	405.310	415.906	424.914	431.955	437.535	440.336	441.838
160	386.025	392.590	398.303	403.315	406.464	408.761	409.555
165	368.520	372.366	375.828	378.148	379.859	381.309	381.895
170	356.016	357.321	358.457	359.426	360.209	360.911	361.230
175	347.310	347.629	347.925	348.197	348.563	348.684	348.835
180	344.520	344.520	344.520	344.520	344.520	344.520	344.520

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PHOTOMETRIC FILENAME : VODE_107_DB_LO_35_G1A1.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	153.11	N.A.	6.20
0-30	315.91	N.A.	12.70
0-40	496.32	N.A.	20.00
0-60	790.58	N.A.	31.90
0-80	908.56	N.A.	36.60
0-90	916.23	N.A.	36.90
10-90	876.23	N.A.	35.30
20-40	343.21	N.A.	13.80
20-50	509.13	N.A.	20.50
40-70	375.75	N.A.	15.20
60-80	117.98	N.A.	4.80
70-80	36.49	N.A.	1.50
80-90	7.67	N.A.	0.30
90-110	156.83	N.A.	6.30
90-120	406.95	N.A.	16.40
90-130	718.91	N.A.	29.00
90-150	1257.68	N.A.	50.70
90-180	1563.56	N.A.	63.10
110-180	1406.73	N.A.	56.70
0-180	2479.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	40.00
10-20	113.11
20-30	162.80
30-40	180.41
40-50	165.92
50-60	128.34
60-70	81.49
70-80	36.49
80-90	7.67
90-100	29.39
100-110	127.43
110-120	250.12
120-130	311.96
130-140	297.13
140-150	241.65
150-160	171.82
160-170	100.92
170-180	33.14

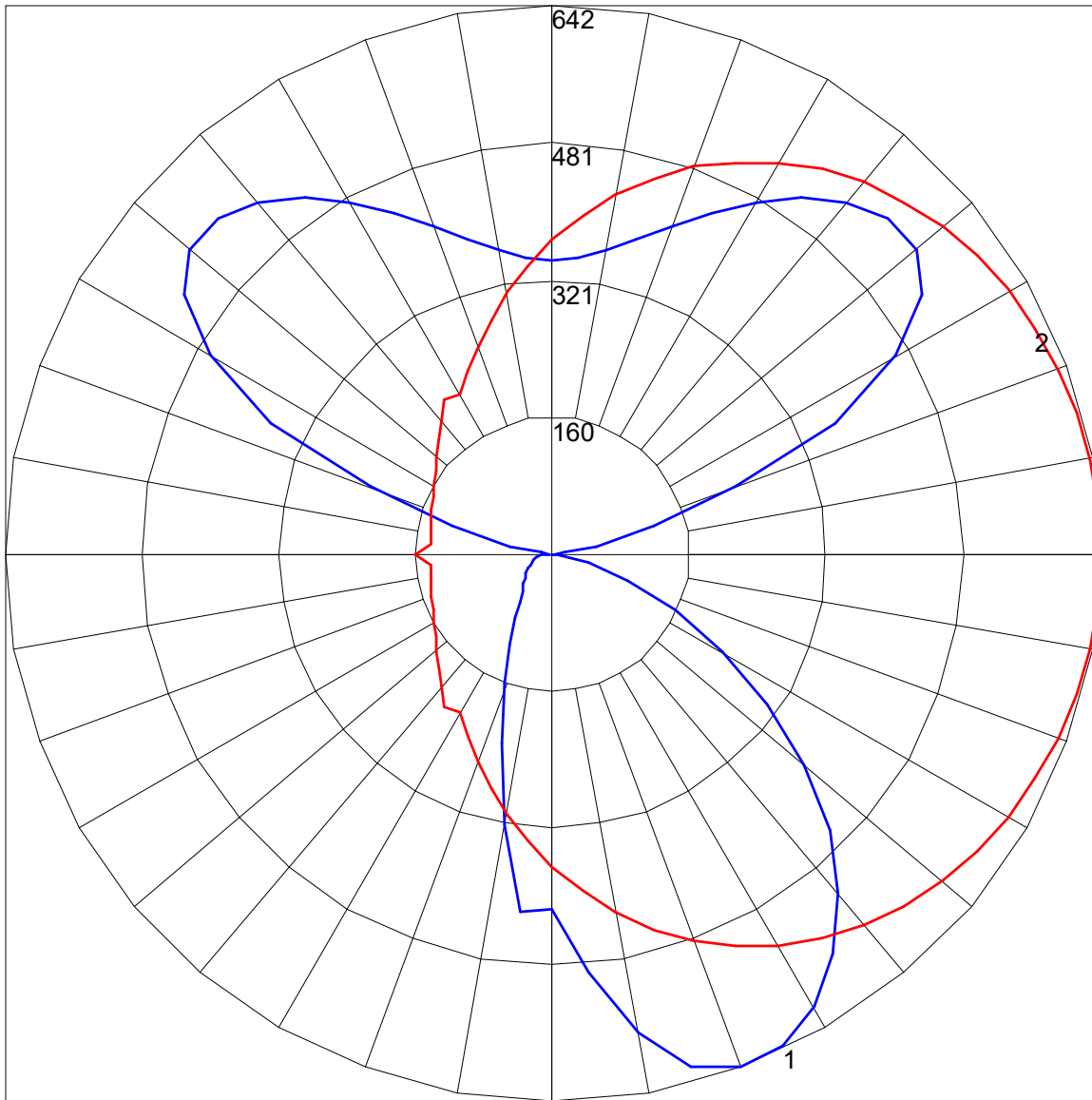
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PHOTOMETRIC FILENAME : VODE_107_DB_LO_35_G1A1.IES

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	88	84	86	83	80	77	67	65	63	53	52	50	40	39	38	32
2	87	80	74	70	79	73	68	64	59	56	53	47	45	43	35	34	33	27
3	80	71	64	58	72	64	59	54	53	48	45	42	39	36	32	30	28	24
4	73	63	55	49	66	57	51	46	47	42	39	37	34	31	29	26	25	21
5	67	56	48	43	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	43	37	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	38	32	52	42	35	30	35	29	26	28	24	21	22	19	17	14
8	53	41	34	29	48	38	31	27	31	26	23	25	22	19	20	17	15	13
9	49	38	30	26	45	35	28	24	29	24	21	23	20	17	18	16	14	12
10	46	34	28	23	42	32	26	21	27	22	19	22	18	16	17	15	13	11

POLAR GRAPH



Maximum Candela = 641.857 Located At Horizontal Angle = 0, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)