

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-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	76	78	80	81
Total Lumens, 4' rail length (1219mm)	2250	2321	2369	2416
Lumens per foot (305mm)	563	580	592	604
Lumens per foot UP (305mm)	369	381	389	397
Lumens per foot DOWN (305mm)	193	200	204	208
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.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-LO-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, low output
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2369
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
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	6635	6930	6421
55	4272	4385	5142
65	2196	2282	4116
75	628	887	3021
85	11	53	1348

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	251.981	251.981	251.981	251.981	251.981	251.981	251.981	251.981	251.981	251.981
5	342.815	342.339	341.179	339.341	336.835	333.686	329.916	325.560	320.647	315.213
10	439.518	438.463	435.934	431.949	426.544	419.775	411.684	401.801	390.827	378.833
15	523.322	521.762	518.271	512.877	505.418	495.279	483.563	470.380	455.851	439.257
20	581.212	579.333	575.650	569.757	560.622	550.101	537.967	523.392	508.028	486.492
25	607.411	605.381	602.342	595.822	588.091	578.260	566.996	555.663	534.400	511.316
30	604.905	603.026	600.248	594.691	587.905	579.762	570.273	555.188	536.813	516.896
35	579.379	577.477	574.386	570.453	563.690	556.481	547.787	531.413	516.078	495.540
40	535.363	533.594	530.091	525.457	520.011	513.312	501.857	489.317	474.208	453.664
45	476.992	475.356	472.021	467.242	461.970	454.175	442.604	432.349	414.474	397.967
50	405.420	403.170	400.409	396.894	392.132	384.331	373.949	361.665	346.643	328.634
55	326.343	324.104	322.492	320.485	315.137	305.991	298.126	286.172	276.138	261.516
60	246.297	244.951	243.246	235.149	226.995	221.195	214.907	209.160	202.826	191.249
65	172.515	171.709	163.415	155.498	152.238	150.655	148.271	144.414	140.679	136.979
70	105.862	101.744	94.482	94.227	95.433	95.561	94.714	91.762	90.254	88.589
75	49.219	43.430	45.466	46.220	46.934	48.581	48.616	49.196	51.231	51.974
80	9.535	11.020	10.428	11.095	11.867	12.719	13.398	15.567	17.330	20.590
85	0.870	1.543	1.317	1.230	1.160	1.328	1.143	1.485	2.297	2.952
90	0.568	0.580	0.626	0.626	0.626	0.626	0.626	0.626	0.626	0.626
95	21.576	22.324	20.265	19.494	19.297	19.772	20.242	21.112	22.249	22.382
100	82.261	68.011	69.072	67.744	67.187	66.033	64.687	66.207	63.522	62.652
105	140.244	120.362	123.685	121.110	121.684	120.437	118.871	117.717	117.241	113.732
110	206.515	199.294	183.466	180.879	182.393	182.311	180.983	177.683	174.052	166.309
115	271.533	271.336	258.686	247.863	243.107	242.167	239.946	236.089	231.014	223.097
120	335.107	334.370	332.328	324.284	314.464	308.995	304.239	299.993	290.940	277.965
125	394.151	393.054	391.390	389.163	385.677	377.331	372.314	358.457	345.871	327.636
130	445.684	444.321	441.711	438.103	433.968	427.176	417.496	404.069	385.990	363.179
135	486.046	484.747	481.620	476.969	470.896	463.385	450.329	436.989	415.466	393.629
140	513.787	512.181	508.202	502.547	495.523	486.719	472.717	455.990	436.456	411.522
145	528.519	526.541	522.232	515.968	507.106	496.683	484.080	464.592	444.413	421.660
150	526.692	524.430	520.411	513.114	503.800	492.368	479.132	462.434	443.445	422.936
155	507.233	505.232	501.984	495.059	486.574	476.012	463.756	450.747	434.617	418.163
160	476.122	474.423	471.546	467.028	459.749	451.588	442.360	431.363	419.897	409.115
165	438.463	437.274	435.336	432.674	429.061	423.748	417.907	411.597	404.875	397.167
170	406.099	405.420	404.446	403.187	401.650	399.864	397.822	394.847	391.726	388.461
175	386.251	386.013	385.741	385.445	385.126	384.789	384.436	384.064	383.682	383.293
180	382.220	382.220	382.220	382.220	382.220	382.220	382.220	382.220	382.220	382.220

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	251.981	251.981	251.981	251.981	251.981	251.981	251.981	251.981	251.981	251.981
5	309.308	302.969	296.247	289.194	281.863	274.305	266.585	258.755	250.873	244.690
10	365.916	352.170	337.728	323.559	308.914	293.903	278.626	263.181	247.695	235.555
15	420.349	399.110	377.087	354.426	329.805	309.094	286.810	264.393	242.057	224.327
20	461.848	435.887	409.358	379.233	348.812	316.825	289.501	260.901	232.621	210.366
25	488.238	459.163	426.219	393.843	357.738	321.419	286.311	252.677	219.710	194.004
30	491.266	461.964	429.937	391.952	355.227	314.627	275.320	238.554	203.000	175.340
35	471.627	446.322	411.475	375.533	335.727	295.597	255.072	217.854	182.485	154.727
40	431.613	405.408	375.301	341.127	303.555	266.504	225.063	189.399	158.497	132.820
45	374.871	352.118	325.194	294.037	261.226	222.134	191.052	163.299	134.421	112.044
50	311.332	291.821	266.974	240.050	215.917	186.615	160.405	134.972	110.676	92.504
55	242.875	223.863	206.915	188.407	170.207	149.599	128.661	108.095	89.291	75.458
60	183.773	174.041	161.252	147.007	131.295	115.321	99.557	84.193	70.992	60.198

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CANDELA TABULATION - (Cont.)

65	132.431	124.596	116.470	106.824	96.657	85.892	74.350	63.516	54.613	46.562
70	85.910	83.694	79.669	73.590	67.222	60.227	53.041	46.348	40.119	34.545
75	50.501	50.680	51.475	48.610	45.246	40.229	34.435	29.702	26.489	23.432
80	21.541	23.380	25.149	23.351	22.040	20.016	18.119	16.211	14.494	13.236
85	3.434	4.541	5.162	5.168	6.281	6.276	5.736	5.510	5.394	5.313
90	0.626	0.580	0.580	0.580	0.580	0.528	0.528	0.580	0.528	0.626
95	22.469	20.660	19.326	17.702	15.648	15.387	14.604	14.175	14.981	15.277
100	62.298	58.017	54.039	49.851	47.235	45.750	44.480	43.459	44.550	44.266
105	107.509	100.375	92.777	84.030	78.062	75.423	74.907	73.266	73.492	75.301
110	157.685	147.100	134.560	122.287	114.857	111.082	108.031	106.888	107.207	108.124
115	210.076	193.395	176.407	161.194	150.725	144.559	140.592	139.125	140.343	141.381
120	260.942	237.052	215.673	198.058	184.173	176.227	172.869	171.100	170.590	171.935
125	302.255	276.167	251.465	230.683	213.295	203.307	198.551	196.046	195.292	196.481
130	337.937	309.946	283.864	261.487	243.936	233.775	227.807	224.988	224.767	227.122
135	364.675	337.270	311.187	288.939	271.376	259.521	253.524	250.386	249.377	252.161
140	385.514	358.428	333.564	311.530	295.191	282.686	276.335	272.902	271.724	274.932
145	397.294	373.932	351.086	331.383	316.013	304.831	297.378	294.414	293.445	296.914
150	402.497	382.243	362.981	347.292	333.036	324.179	316.251	314.377	313.629	317.196
155	401.772	386.077	371.687	357.964	348.563	340.524	335.025	333.030	331.882	335.431
160	397.845	386.199	375.138	367.488	360.174	352.953	350.964	349.212	348.064	351.439
165	390.073	384.331	378.659	373.085	367.343	365.823	364.478	363.300	362.459	365.122
170	385.074	381.594	378.108	376.959	375.898	374.929	374.059	373.265	372.627	374.523
175	382.899	382.504	382.110	381.715	381.327	380.950	380.567	380.231	379.894	380.886
180	382.220	382.220	382.220	382.220	382.220	382.220	382.220	382.220	382.220	382.220

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	251.981	251.981	251.981	251.981	251.981	251.981	251.981	251.981	251.981	251.981
5	238.566	232.545	226.664	220.974	215.511	210.325	205.453	200.929	196.788	193.059
10	223.561	211.770	200.274	189.150	178.205	171.257	164.563	158.357	152.697	147.616
15	206.869	189.712	173.310	161.994	151.131	140.807	131.080	124.016	118.923	114.185
20	188.546	167.336	152.563	138.214	124.346	115.693	108.019	100.769	94.470	91.095
25	168.896	148.654	131.596	115.901	106.117	96.634	89.227	84.251	79.692	75.939
30	148.225	129.676	111.244	99.917	89.245	82.285	76.421	71.723	68.962	66.346
35	129.618	111.058	96.025	84.918	76.902	70.696	66.364	63.133	60.743	59.160
40	111.105	93.902	82.221	72.512	66.265	61.660	58.261	56.132	54.340	53.319
45	94.001	79.622	69.681	62.599	57.223	53.946	51.649	49.915	49.027	48.326
50	78.277	67.245	58.876	53.662	49.979	47.374	45.652	44.759	44.080	43.761
55	64.409	56.016	49.915	45.652	43.036	41.337	40.240	39.701	39.399	39.283
60	52.072	45.901	41.499	38.512	36.557	35.397	34.875	34.580	34.487	34.609
65	40.803	36.494	33.466	31.593	30.375	29.626	29.377	29.244	29.296	29.302
70	30.705	27.852	25.891	24.859	24.064	23.647	23.548	23.554	23.641	23.687
75	20.984	19.482	18.467	18.015	17.707	17.696	17.748	17.870	17.939	18.026
80	12.151	11.716	11.559	11.571	11.554	11.849	11.977	12.134	12.366	12.557
85	5.162	5.458	5.823	5.997	5.899	5.875	5.788	5.725	5.649	5.754
90	0.673	0.673	0.626	0.673	0.673	0.725	0.771	0.771	0.771	0.771
95	15.561	15.962	17.516	20.341	23.252	26.837	30.253	31.813	33.472	36.453
100	45.112	46.371	48.749	52.200	57.722	65.755	73.602	79.837	83.740	86.838
105	77.053	78.503	82.499	89.419	99.859	112.010	123.691	133.864	141.485	145.870
110	110.641	114.312	120.373	130.135	144.652	161.431	177.660	190.704	197.931	210.946
115	143.863	148.985	157.592	169.911	184.985	203.476	230.312	250.485	264.405	273.609
120	176.094	182.764	193.563	208.388	228.427	253.582	278.655	301.577	320.015	334.857
125	200.291	210.360	225.063	242.620	267.426	293.579	321.546	349.264	369.216	384.824
130	232.342	241.193	254.695	274.572	299.901	328.634	358.602	385.120	408.993	427.773
135	257.955	267.281	282.640	302.951	327.828	356.625	385.909	416.202	438.973	461.146

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CANDELA TABULATION - (Cont.)

140	280.964	290.568	306.327	325.722	350.448	377.887	407.380	434.814	460.648	480.716
145	302.511	312.782	326.755	344.822	367.186	392.892	418.731	445.173	469.116	489.706
150	321.894	332.131	343.406	360.215	378.682	400.606	423.133	445.457	467.213	487.444
155	339.857	347.751	358.167	369.947	386.141	402.972	420.790	438.840	456.959	474.626
160	355.412	359.873	368.758	377.957	387.440	400.374	413.830	426.886	439.414	452.232
165	368.109	371.241	374.796	381.663	388.635	395.670	402.740	411.179	420.268	428.405
170	376.577	378.688	380.874	383.125	385.468	389.905	394.359	398.698	402.885	406.893
175	381.878	382.904	383.908	384.900	385.874	386.819	387.736	388.606	389.435	390.207
180	382.220	382.220	382.220	382.220	382.220	382.220	382.220	382.220	382.220	382.220

Vert. Angles Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	251.981	251.981	251.981	251.981	251.981	251.981	251.981
5	189.776	186.969	184.649	182.839	180.473	180.537	180.606
10	143.167	139.159	135.836	133.232	131.370	129.879	129.937
15	110.014	106.453	103.547	101.088	99.279	97.823	97.863
20	88.148	85.475	83.242	81.531	80.168	79.031	79.083
25	73.880	72.129	70.615	69.368	68.510	67.930	67.814
30	64.484	63.307	62.309	61.521	60.981	60.633	60.587
35	57.762	56.927	56.312	55.941	55.645	55.500	55.483
40	52.502	51.910	51.487	51.295	51.266	51.289	51.342
45	47.856	47.496	47.299	47.183	47.374	47.461	47.485
50	43.517	43.372	43.187	43.094	43.245	43.442	43.541
55	39.220	39.098	39.022	38.889	38.953	39.022	39.109
60	34.440	34.452	34.516	34.348	34.301	34.307	34.388
65	29.307	29.336	29.412	29.458	29.325	29.238	29.377
70	23.844	23.919	24.029	24.163	23.983	23.913	23.983
75	18.235	18.386	18.502	18.531	18.438	18.392	18.496
80	12.760	12.911	12.917	12.847	12.888	12.505	12.812
85	5.754	5.562	5.423	5.220	4.918	4.489	3.950
90	0.771	0.771	0.771	0.771	0.818	0.818	0.824
95	34.632	32.909	31.970	30.317	27.985	26.460	18.688
100	88.276	88.676	88.119	86.611	85.364	83.184	80.620
105	149.802	150.771	149.715	148.834	147.859	145.592	143.712
110	210.795	214.554	216.363	216.062	215.592	213.341	212.100
115	280.505	284.565	285.360	286.102	285.024	284.304	283.475
120	342.658	347.867	351.718	352.536	352.686	353.000	352.350
125	398.042	404.312	410.460	412.745	414.422	415.715	415.727
130	441.670	451.582	458.531	462.683	465.937	468.385	468.704
135	474.910	488.250	495.906	501.944	506.241	509.217	509.640
140	497.942	512.482	521.501	528.653	534.197	537.869	539.406
145	509.750	522.835	533.548	542.549	548.715	552.955	555.014
150	505.157	518.978	530.816	540.293	547.671	551.766	554.144
155	488.667	501.973	513.462	522.603	530.016	533.507	535.647
160	464.458	474.829	483.969	492.072	497.037	500.842	502.031
165	436.038	443.097	449.517	453.792	456.895	459.575	460.421
170	410.727	413.349	415.622	417.536	419.067	420.413	420.929
175	390.920	391.564	392.144	392.648	393.246	393.455	393.669
180	382.220	382.220	382.220	382.220	382.220	382.220	382.220

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	104.01	N.A.	4.40
0-30	236.59	N.A.	10.00
0-40	401.64	N.A.	17.00
0-60	692.74	N.A.	29.20
0-80	807.49	N.A.	34.10
0-90	814.06	N.A.	34.40
10-90	789.18	N.A.	33.30
20-40	297.63	N.A.	12.60
20-50	460.18	N.A.	19.40
40-70	370.84	N.A.	15.70
60-80	114.75	N.A.	4.80
70-80	35.01	N.A.	1.50
80-90	6.57	N.A.	0.30
90-110	149.45	N.A.	6.30
90-120	363.80	N.A.	15.40
90-130	644.05	N.A.	27.20
90-150	1205.32	N.A.	50.90
90-180	1554.74	N.A.	65.60
110-180	1405.29	N.A.	59.30
0-180	2368.8	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	24.88
10-20	79.14
20-30	132.58
30-40	165.05
40-50	162.55
50-60	128.55
60-70	79.74
70-80	35.01
80-90	6.57
90-100	30.10
100-110	119.36
110-120	214.35
120-130	280.25
130-140	296.61
140-150	264.66
150-160	197.12
160-170	115.25
170-180	37.05

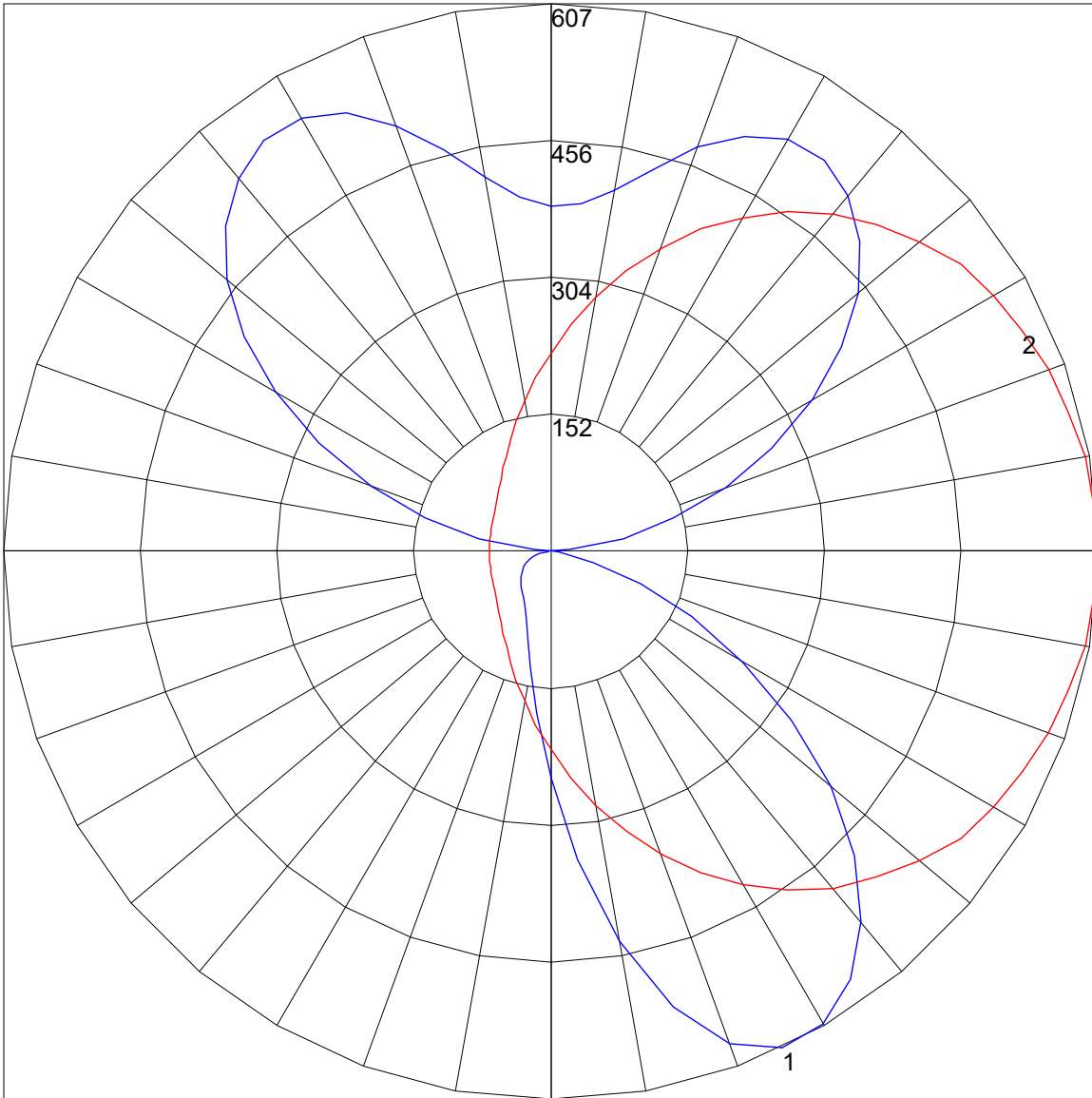
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_LO_35_G1A1.IES

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	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 = 607.411 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.)