

IES Report

DoubleBox™ | 107 | 120° Batwing, up | 85° Asymmetric, down | 90 CRI | LO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-G1A1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	65	67	69	70
Total Lumens, 4' rail length (1219mm)	1940	2001	2042	2083
Lumens per foot (305mm)	485	500	511	521
Lumens per foot UP (305mm)	318	328	335	342
Lumens per foot DOWN (305mm)	167	172	176	179
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	96	96	96	96

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_359_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-359-G1A1
 [LUMINAIRE] DoubleBox LED, 48", 3500K, 90 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	2042
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
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	5720	5975	5535
55	3683	3780	4432
65	1893	1967	3548
75	541	764	2604
85	10	46	1162

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	217.225	217.225	217.225	217.225	217.225	217.225	217.225	217.225	217.225	217.225
5	295.530	295.120	294.120	292.535	290.375	287.660	284.410	280.655	276.420	271.735
10	378.895	377.985	375.805	372.370	367.710	361.875	354.900	346.380	336.920	326.580
15	451.140	449.795	446.785	442.135	435.705	426.965	416.865	405.500	392.975	378.670
20	501.045	499.425	496.250	491.170	483.295	474.225	463.765	451.200	437.955	419.390
25	523.630	521.880	519.260	513.640	506.975	498.500	488.790	479.020	460.690	440.790
30	521.470	519.850	517.455	512.665	506.815	499.795	491.615	478.610	462.770	445.600
35	499.465	497.825	495.160	491.770	485.940	479.725	472.230	458.115	444.895	427.190
40	461.520	459.995	456.975	452.980	448.285	442.510	432.635	421.825	408.800	391.090
45	411.200	409.790	406.915	402.795	398.250	391.530	381.555	372.715	357.305	343.075
50	349.500	347.560	345.180	342.150	338.045	331.320	322.370	311.780	298.830	283.305
55	281.330	279.400	278.010	276.280	271.670	263.785	257.005	246.700	238.050	225.445
60	212.325	211.165	209.695	202.715	195.685	190.685	185.265	180.310	174.850	164.870
65	148.720	148.025	140.875	134.050	131.240	129.875	127.820	124.495	121.275	118.085
70	91.260	87.710	81.450	81.230	82.270	82.380	81.650	79.105	77.805	76.370
75	42.430	37.440	39.195	39.845	40.460	41.880	41.910	42.410	44.165	44.805
80	8.220	9.500	8.990	9.565	10.230	10.965	11.550	13.420	14.940	17.750
85	0.750	1.330	1.135	1.060	1.000	1.145	0.985	1.280	1.980	2.545
90	0.490	0.500	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540
95	18.600	19.245	17.470	16.805	16.635	17.045	17.450	18.200	19.180	19.295
100	70.915	58.630	59.545	58.400	57.920	56.925	55.765	57.075	54.760	54.010
105	120.900	103.760	106.625	104.405	104.900	103.825	102.475	101.480	101.070	98.045
110	178.030	171.805	158.160	155.930	157.235	157.165	156.020	153.175	150.045	143.370
115	234.080	233.910	223.005	213.675	209.575	208.765	206.850	203.525	199.150	192.325
120	288.885	288.250	286.490	279.555	271.090	266.375	262.275	258.615	250.810	239.625
125	339.785	338.840	337.405	335.485	332.480	325.285	320.960	309.015	298.165	282.445
130	384.210	383.035	380.785	377.675	374.110	368.255	359.910	348.335	332.750	313.085
135	419.005	417.885	415.190	411.180	405.945	399.470	388.215	376.715	358.160	339.335
140	442.920	441.535	438.105	433.230	427.175	419.585	407.515	393.095	376.255	354.760
145	455.620	453.915	450.200	444.800	437.160	428.175	417.310	400.510	383.115	363.500
150	454.045	452.095	448.630	442.340	434.310	424.455	413.045	398.650	382.280	364.600
155	437.270	435.545	432.745	426.775	419.460	410.355	399.790	388.575	374.670	360.485
160	410.450	408.985	406.505	402.610	396.335	389.300	381.345	371.865	361.980	352.685
165	377.985	376.960	375.290	372.995	369.880	365.300	360.265	354.825	349.030	342.385
170	350.085	349.500	348.660	347.575	346.250	344.710	342.950	340.385	337.695	334.880
175	332.975	332.770	332.535	332.280	332.005	331.715	331.410	331.090	330.760	330.425
180	329.500	329.500	329.500	329.500	329.500	329.500	329.500	329.500	329.500	329.500

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	217.225	217.225	217.225	217.225	217.225	217.225	217.225	217.225	217.225	217.225
5	266.645	261.180	255.385	249.305	242.985	236.470	229.815	223.065	216.270	210.940
10	315.445	303.595	291.145	278.930	266.305	253.365	240.195	226.880	213.530	203.065
15	362.370	344.060	325.075	305.540	284.315	266.460	247.250	227.925	208.670	193.385
20	398.145	375.765	352.895	326.925	300.700	273.125	249.570	224.915	200.535	181.350
25	420.895	395.830	367.430	339.520	308.395	277.085	246.820	217.825	189.405	167.245
30	423.505	398.245	370.635	337.890	306.230	271.230	237.345	205.650	175.000	151.155
35	406.575	384.760	354.720	323.735	289.420	254.825	219.890	187.805	157.315	133.385
40	372.080	349.490	323.535	294.075	261.685	229.745	194.020	163.275	136.635	114.500
45	323.165	303.550	280.340	253.480	225.195	191.495	164.700	140.775	115.880	96.590
50	268.390	251.570	230.150	206.940	186.135	160.875	138.280	116.355	95.410	79.745
55	209.375	192.985	178.375	162.420	146.730	128.965	110.915	93.185	76.975	65.050
60	158.425	150.035	139.010	126.730	113.185	99.415	85.825	72.580	61.200	51.895

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CANDELA TABULATION - (Cont.)

65	114.165	107.410	100.405	92.090	83.325	74.045	64.095	54.755	47.080	40.140
70	74.060	72.150	68.680	63.440	57.950	51.920	45.725	39.955	34.585	29.780
75	43.535	43.690	44.375	41.905	39.005	34.680	29.685	25.605	22.835	20.200
80	18.570	20.155	21.680	20.130	19.000	17.255	15.620	13.975	12.495	11.410
85	2.960	3.915	4.450	4.455	5.415	5.410	4.945	4.750	4.650	4.580
90	0.540	0.500	0.500	0.500	0.500	0.455	0.455	0.500	0.455	0.540
95	19.370	17.810	16.660	15.260	13.490	13.265	12.590	12.220	12.915	13.170
100	53.705	50.015	46.585	42.975	40.720	39.440	38.345	37.465	38.405	38.160
105	92.680	86.530	79.980	72.440	67.295	65.020	64.575	63.160	63.355	64.915
110	135.935	126.810	116.000	105.420	99.015	95.760	93.130	92.145	92.420	93.210
115	181.100	166.720	152.075	138.960	129.935	124.620	121.200	119.935	120.985	121.880
120	224.950	204.355	185.925	170.740	158.770	151.920	149.025	147.500	147.060	148.220
125	260.565	238.075	216.780	198.865	183.875	175.265	171.165	169.005	168.355	169.380
130	291.325	267.195	244.710	225.420	210.290	201.530	196.385	193.955	193.765	195.795
135	314.375	290.750	268.265	249.085	233.945	223.725	218.555	215.850	214.980	217.380
140	332.340	308.990	287.555	268.560	254.475	243.695	238.220	235.260	234.245	237.010
145	342.495	322.355	302.660	285.675	272.425	262.785	256.360	253.805	252.970	255.960
150	346.980	329.520	312.915	299.390	287.100	279.465	272.630	271.015	270.370	273.445
155	346.355	332.825	320.420	308.590	300.485	293.555	288.815	287.095	286.105	289.165
160	342.970	332.930	323.395	316.800	310.495	304.270	302.555	301.045	300.055	302.965
165	336.270	331.320	326.430	321.625	316.675	315.365	314.205	313.190	312.465	314.760
170	331.960	328.960	325.955	324.965	324.050	323.215	322.465	321.780	321.230	322.865
175	330.085	329.745	329.405	329.065	328.730	328.405	328.075	327.785	327.495	328.350
180	329.500	329.500	329.500	329.500	329.500	329.500	329.500	329.500	329.500	329.500

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	217.225	217.225	217.225	217.225	217.225	217.225	217.225	217.225	217.225	217.225
5	205.660	200.470	195.400	190.495	185.785	181.315	177.115	173.215	169.645	166.430
10	192.725	182.560	172.650	163.060	153.625	147.635	141.865	136.515	131.635	127.255
15	178.335	163.545	149.405	139.650	130.285	121.385	113.000	106.910	102.520	98.435
20	162.540	144.255	131.520	119.150	107.195	99.735	93.120	86.870	81.440	78.530
25	145.600	128.150	113.445	99.915	91.480	83.305	76.920	72.630	68.700	65.465
30	127.780	111.790	95.900	86.135	76.935	70.935	65.880	61.830	59.450	57.195
35	111.740	95.740	82.780	73.205	66.295	60.945	57.210	54.425	52.365	51.000
40	95.780	80.950	70.880	62.510	57.125	53.155	50.225	48.390	46.845	45.965
45	81.035	68.640	60.070	53.965	49.330	46.505	44.525	43.030	42.265	41.660
50	67.480	57.970	50.755	46.260	43.085	40.840	39.355	38.585	38.000	37.725
55	55.525	48.290	43.030	39.355	37.100	35.635	34.690	34.225	33.965	33.865
60	44.890	39.570	35.775	33.200	31.515	30.515	30.065	29.810	29.730	29.835
65	35.175	31.460	28.850	27.235	26.185	25.540	25.325	25.210	25.255	25.260
70	26.470	24.010	22.320	21.430	20.745	20.385	20.300	20.305	20.380	20.420
75	18.090	16.795	15.920	15.530	15.265	15.255	15.300	15.405	15.465	15.540
80	10.475	10.100	9.965	9.975	9.960	10.215	10.325	10.460	10.660	10.825
85	4.450	4.705	5.020	5.170	5.085	5.065	4.990	4.935	4.870	4.960
90	0.580	0.580	0.540	0.580	0.580	0.625	0.665	0.665	0.665	0.665
95	13.415	13.760	15.100	17.535	20.045	23.135	26.080	27.425	28.855	31.425
100	38.890	39.975	42.025	45.000	49.760	56.685	63.450	68.825	72.190	74.860
105	66.425	67.675	71.120	77.085	86.085	96.560	106.630	115.400	121.970	125.750
110	95.380	98.545	103.770	112.185	124.700	139.165	153.155	164.400	170.630	181.850
115	124.020	128.435	135.855	146.475	159.470	175.410	198.545	215.935	227.935	235.870
120	151.805	157.555	166.865	179.645	196.920	218.605	240.220	259.980	275.875	288.670
125	172.665	181.345	194.020	209.155	230.540	253.085	277.195	301.090	318.290	331.745
130	200.295	207.925	219.565	236.700	258.535	283.305	309.140	332.000	352.580	368.770
135	222.375	230.415	243.655	261.165	282.610	307.435	332.680	358.795	378.425	397.540

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CANDELA TABULATION - (Cont.)

140	242.210	250.490	264.075	280.795	302.110	325.765	351.190	374.840	397.110	414.410
145	260.785	269.640	281.685	297.260	316.540	338.700	360.975	383.770	404.410	422.160
150	277.495	286.320	296.040	310.530	326.450	345.350	364.770	384.015	402.770	420.210
155	292.980	299.785	308.765	318.920	332.880	347.390	362.750	378.310	393.930	409.160
160	306.390	310.235	317.895	325.825	334.000	345.150	356.750	368.005	378.805	389.855
165	317.335	320.035	323.100	329.020	335.030	341.095	347.190	354.465	362.300	369.315
170	324.635	326.455	328.340	330.280	332.300	336.125	339.965	343.705	347.315	350.770
175	329.205	330.090	330.955	331.810	332.650	333.465	334.255	335.005	335.720	336.385
180	329.500	329.500	329.500	329.500	329.500	329.500	329.500	329.500	329.500	329.500

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	217.225	217.225	217.225	217.225	217.225	217.225	217.225
5	163.600	161.180	159.180	157.620	155.580	155.635	155.695
10	123.420	119.965	117.100	114.855	113.250	111.965	112.015
15	94.840	91.770	89.265	87.145	85.585	84.330	84.365
20	75.990	73.685	71.760	70.285	69.110	68.130	68.175
25	63.690	62.180	60.875	59.800	59.060	58.560	58.460
30	55.590	54.575	53.715	53.035	52.570	52.270	52.230
35	49.795	49.075	48.545	48.225	47.970	47.845	47.830
40	45.260	44.750	44.385	44.220	44.195	44.215	44.260
45	41.255	40.945	40.775	40.675	40.840	40.915	40.935
50	37.515	37.390	37.230	37.150	37.280	37.450	37.535
55	33.810	33.705	33.640	33.525	33.580	33.640	33.715
60	29.690	29.700	29.755	29.610	29.570	29.575	29.645
65	25.265	25.290	25.355	25.395	25.280	25.205	25.325
70	20.555	20.620	20.715	20.830	20.675	20.615	20.675
75	15.720	15.850	15.950	15.975	15.895	15.855	15.945
80	11.000	11.130	11.135	11.075	11.110	10.780	11.045
85	4.960	4.795	4.675	4.500	4.240	3.870	3.405
90	0.665	0.665	0.665	0.665	0.705	0.705	0.710
95	29.855	28.370	27.560	26.135	24.125	22.810	16.110
100	76.100	76.445	75.965	74.665	73.590	71.710	69.500
105	129.140	129.975	129.065	128.305	127.465	125.510	123.890
110	181.720	184.960	186.520	186.260	185.855	183.915	182.845
115	241.815	245.315	246.000	246.640	245.710	245.090	244.375
120	295.395	299.885	303.205	303.910	304.040	304.310	303.750
125	343.140	348.545	353.845	355.815	357.260	358.375	358.385
130	380.750	389.295	395.285	398.865	401.670	403.780	404.055
135	409.405	420.905	427.505	432.710	436.415	438.980	439.345
140	429.260	441.795	449.570	455.735	460.515	463.680	465.005
145	439.440	450.720	459.955	467.715	473.030	476.685	478.460
150	435.480	447.395	457.600	465.770	472.130	475.660	477.710
155	421.265	432.735	442.640	450.520	456.910	459.920	461.765
160	400.395	409.335	417.215	424.200	428.480	431.760	432.785
165	375.895	381.980	387.515	391.200	393.875	396.185	396.915
170	354.075	356.335	358.295	359.945	361.265	362.425	362.870
175	337.000	337.555	338.055	338.490	339.005	339.185	339.370
180	329.500	329.500	329.500	329.500	329.500	329.500	329.500

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	89.66	N.A.	4.40
0-30	203.96	N.A.	10.00
0-40	346.24	N.A.	17.00
0-60	597.19	N.A.	29.20
0-80	696.11	N.A.	34.10
0-90	701.77	N.A.	34.40
10-90	680.33	N.A.	33.30
20-40	256.57	N.A.	12.60
20-50	396.71	N.A.	19.40
40-70	319.69	N.A.	15.70
60-80	98.92	N.A.	4.80
70-80	30.18	N.A.	1.50
80-90	5.66	N.A.	0.30
90-110	128.84	N.A.	6.30
90-120	313.62	N.A.	15.40
90-130	555.22	N.A.	27.20
90-150	1039.07	N.A.	50.90
90-180	1340.29	N.A.	65.60
110-180	1211.46	N.A.	59.30
0-180	2042.07	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	21.44
10-20	68.22
20-30	114.29
30-40	142.28
40-50	140.13
50-60	110.82
60-70	68.74
70-80	30.18
80-90	5.66
90-100	25.95
100-110	102.89
110-120	184.78
120-130	241.60
130-140	255.70
140-150	228.15
150-160	169.93
160-170	99.36
170-180	31.94

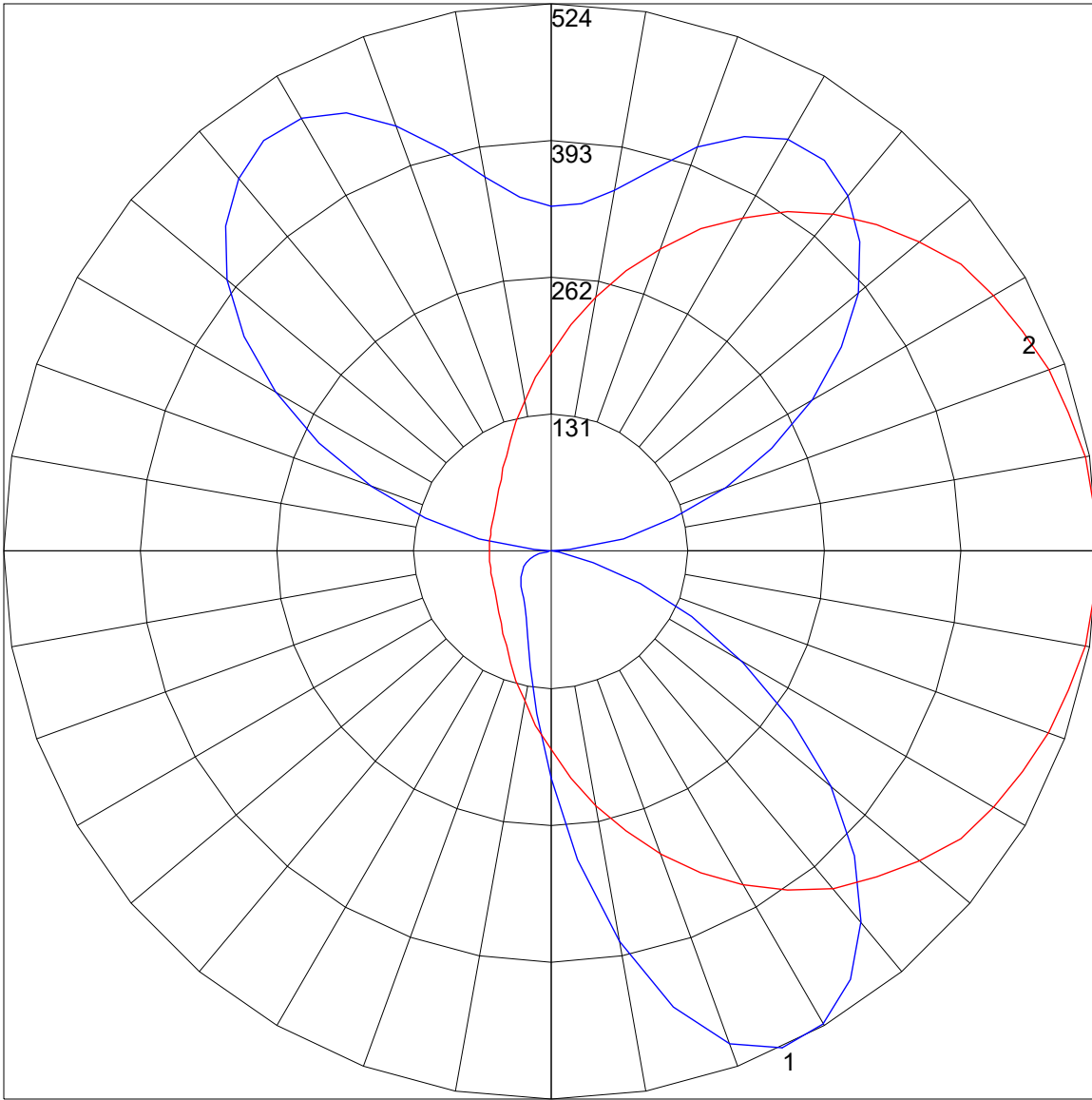
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 523.63 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.)