

IES Report

DoubleBox™ | 107 | Wide 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	74	76	78	79
Total Lumens, 4' rail length (1219mm)	2031	2095	2138	2159
Lumens per foot (305mm)	508	524	534	540
Lumens per foot UP (305mm)	320	330	337	340
Lumens per foot DOWN (305mm)	188	194	197	199
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	94	94	94	94

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] 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-359-G1A1-AL

[LUMINAIRE] DoubleBox LED, 48", 3500K, 90 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	2138
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
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	5597	5798	8069
55	3505	3595	6253
65	1745	1957	4868
75	462	783	3541
85	2	4	1658

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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	360.445	360.445	360.445	360.445	360.445	360.445	360.445	360.445	360.445	360.445
5	423.480	422.640	422.220	421.050	419.665	417.990	415.770	413.755	410.530	407.300
10	492.885	491.840	490.750	488.315	485.340	481.110	476.120	470.630	463.675	456.295
15	536.305	535.345	534.000	531.070	526.920	522.055	515.770	508.435	499.380	489.240
20	553.325	553.115	551.310	548.460	544.355	538.905	532.410	524.110	514.220	502.905
25	548.375	547.705	545.990	543.305	539.155	533.875	526.920	518.370	507.680	495.985
30	527.420	526.750	525.030	522.100	517.615	511.745	504.330	495.275	483.790	470.880
35	494.395	493.640	491.755	488.485	483.370	476.750	468.325	457.680	445.275	431.235
40	450.050	449.425	447.325	443.680	438.065	430.815	421.130	409.185	395.815	380.645
45	395.735	394.935	393.095	389.490	383.705	375.995	365.975	353.570	339.615	323.855
50	332.865	332.320	330.810	327.625	322.765	314.885	305.330	293.805	280.515	266.560
55	265.555	265.135	264.005	261.825	257.925	251.850	243.805	233.660	222.300	210.525
60	198.245	198.120	197.740	196.570	194.095	190.070	184.370	176.995	168.570	160.020
65	137.055	137.135	137.345	137.260	136.380	134.540	131.435	127.035	121.795	116.430
70	82.400	82.650	83.320	84.160	84.915	85.040	84.455	82.945	80.805	78.210
75	36.465	36.755	37.805	39.270	41.115	43.085	44.635	45.640	46.060	45.895
80	5.535	5.660	6.035	6.830	7.965	9.600	11.735	14.290	16.805	18.860
85	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.250
90	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440
95	11.360	13.975	13.185	13.485	13.940	14.705	15.085	18.115	19.845	21.180
100	43.880	46.055	47.140	49.385	52.275	55.355	58.905	61.905	65.915	66.265
105	105.325	98.105	104.990	107.740	110.880	116.010	119.900	123.180	126.285	125.490
110	196.360	189.900	190.550	194.700	201.410	201.770	208.755	203.610	198.460	186.135
115	314.090	312.800	301.720	296.015	293.335	291.705	283.705	272.480	258.235	240.600
120	399.715	397.215	391.710	381.355	371.845	358.540	344.415	328.385	303.710	277.875
125	455.415	452.505	445.750	437.215	426.545	406.415	388.250	361.930	335.550	305.845
130	479.225	476.655	469.290	458.145	444.570	426.500	403.545	378.640	350.155	320.870
135	478.970	476.805	469.920	459.085	444.100	426.735	404.785	382.030	355.725	329.455
140	463.465	461.255	455.010	445.300	432.395	416.355	397.405	376.775	354.715	332.045
145	438.985	437.015	432.025	424.310	413.375	400.065	384.545	366.920	348.635	329.980
150	410.485	408.705	405.055	398.765	390.375	379.775	367.315	353.800	340.000	324.995
155	380.895	379.600	377.185	372.375	366.305	358.540	349.405	339.595	329.405	319.095
160	353.065	352.380	350.400	347.685	343.365	338.440	332.780	325.975	318.835	312.440
165	329.220	328.715	327.465	325.990	323.990	321.005	317.690	314.065	310.160	305.640
170	311.405	311.130	310.525	309.850	309.015	308.035	306.910	305.130	303.285	301.360
175	300.720	300.590	300.485	300.170	299.935	299.680	299.405	299.110	298.800	298.475
180	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000

**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	360.445	360.445	360.445	360.445	360.445	360.445	360.445	360.445	360.445	360.445
5	403.990	399.840	394.560	388.985	383.330	377.335	371.045	364.510	357.760	349.420
10	448.210	438.440	427.545	415.895	403.950	391.080	377.795	363.840	349.840	336.470
15	478.050	464.680	449.465	432.995	415.725	397.115	377.710	357.260	336.845	316.520
20	489.995	474.570	456.885	437.100	416.145	392.885	368.365	342.755	317.190	291.205
25	481.865	465.310	446.155	424.570	401.520	374.985	347.495	318.450	289.445	262.200
30	456.130	438.860	419.080	396.825	372.890	345.565	316.980	286.555	256.460	228.085
35	415.640	397.830	377.920	356.085	332.615	306.085	278.295	249.125	220.165	192.795
40	364.385	346.615	327.290	306.755	285.255	261.070	236.215	210.610	183.825	159.770
45	307.970	290.830	273.435	254.825	236.135	215.510	193.380	169.575	150.425	130.430
50	251.055	236.635	221.590	206.165	190.660	173.935	156.750	139.105	121.630	104.570
55	198.285	186.635	174.815	162.705	151.260	138.480	124.185	110.355	96.650	83.070
60	151.680	143.170	134.410	125.610	116.725	107.085	96.610	86.170	75.440	65.090

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CANDELA TABULATION - (Cont.)

65	110.775	105.030	99.415	93.630	87.385	80.430	72.885	65.215	57.460	49.710
70	75.400	72.300	69.070	65.510	61.445	56.960	52.095	46.860	41.575	36.550
75	45.350	44.345	43.045	41.410	39.315	36.755	33.950	30.805	27.580	24.605
80	20.330	21.165	21.415	21.250	20.705	19.700	18.485	17.060	15.465	14.040
85	0.795	2.095	4.110	5.615	6.370	6.580	6.495	6.245	5.870	5.615
90	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440
95	21.495	26.595	25.975	20.845	19.390	19.520	19.135	18.425	18.820	18.425
100	66.160	65.885	61.020	54.355	49.815	45.795	42.195	40.820	40.990	40.820
105	122.045	112.555	101.560	88.595	78.890	71.685	66.515	63.895	63.495	63.895
110	169.025	153.670	136.890	119.665	106.715	98.010	91.720	88.540	88.395	88.540
115	217.335	191.615	168.530	148.705	133.620	123.295	116.180	112.385	112.075	112.385
120	250.220	220.910	195.520	175.165	158.815	147.655	140.840	136.445	134.665	136.445
125	274.320	245.225	219.455	198.130	181.050	169.330	162.285	158.025	155.915	158.025
130	291.730	264.505	240.150	219.175	202.210	189.475	180.895	175.455	171.380	175.455
135	302.965	278.425	255.835	237.070	221.485	209.655	201.840	196.980	194.975	196.980
140	309.200	288.360	268.810	251.450	237.875	226.720	219.270	214.730	212.620	214.730
145	311.655	294.340	278.185	263.680	251.815	242.485	235.490	231.830	229.720	231.830
150	310.905	297.345	284.210	273.395	263.225	256.400	250.140	247.560	245.815	247.560
155	308.540	298.440	289.195	280.190	273.705	267.970	263.690	261.465	259.855	261.465
160	305.685	298.545	291.645	286.710	281.950	277.370	275.365	273.665	272.385	273.665
165	301.445	298.005	294.560	291.140	287.765	286.230	284.950	283.785	282.865	283.785
170	299.375	297.350	295.345	294.385	293.505	292.685	291.930	291.220	290.620	291.220
175	298.140	297.795	297.440	297.085	296.730	296.375	296.015	295.680	295.355	295.680
180	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	360.445	360.445	360.445	360.445	360.445	360.445	360.445	360.445	360.445	360.445
5	343.135	335.800	329.515	323.770	317.775	312.330	307.340	302.270	330.225	327.375
10	323.435	310.275	297.410	285.630	273.810	267.900	258.805	249.295	241.705	234.415
15	297.450	278.420	260.440	243.970	227.835	213.795	201.135	215.050	204.910	196.735
20	267.610	244.430	223.015	203.945	185.795	189.860	175.780	162.785	152.980	144.765
25	236.135	210.860	188.060	168.320	149.960	135.125	122.595	113.750	104.990	97.780
30	201.470	176.410	154.320	135.670	118.945	105.870	96.065	86.885	79.845	74.350
35	167.860	144.850	124.815	108.635	94.430	83.740	75.610	68.400	63.080	59.055
40	137.725	117.730	100.840	87.430	76.070	67.560	60.940	55.955	52.140	49.205
45	111.945	95.350	81.645	70.955	61.945	55.660	50.755	46.900	44.175	42.165
50	89.275	76.240	65.800	57.505	50.840	46.060	42.585	40.360	38.390	37.010
55	71.460	61.235	53.310	47.065	42.205	39.060	36.505	34.660	33.405	32.565
60	56.290	48.620	42.585	38.265	35.040	32.610	30.890	30.805	29.925	29.340
65	43.380	38.225	33.905	30.765	28.375	26.700	25.650	24.940	24.475	24.225
70	32.275	28.585	25.775	23.720	22.215	21.210	20.580	20.160	19.950	19.825
75	22.045	19.910	18.275	17.140	16.305	15.845	15.590	15.425	15.380	15.425
80	12.910	12.030	11.360	10.940	10.730	10.605	10.645	10.690	10.855	11.025
85	5.535	5.535	5.615	5.700	5.870	6.120	6.285	6.370	6.330	6.285
90	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440
95	19.135	19.520	19.390	20.845	25.975	26.595	21.495	21.180	19.845	18.115
100	42.195	45.795	49.815	54.355	61.020	65.885	66.160	66.265	65.915	61.905
105	66.515	71.685	78.890	88.595	101.560	112.555	122.045	125.490	126.285	123.180
110	91.720	98.010	106.715	119.665	136.890	153.670	169.025	186.135	198.460	203.610
115	116.180	123.295	133.620	148.705	168.530	191.615	217.335	240.600	258.235	272.480
120	140.840	147.655	158.815	175.165	195.520	220.910	250.220	277.875	303.710	328.385
125	162.285	169.330	181.050	198.130	219.455	245.225	274.320	305.845	335.550	361.930
130	180.895	189.475	202.210	219.175	240.150	264.505	291.730	320.870	350.155	378.640
135	201.840	209.655	221.485	237.070	255.835	278.425	302.965	329.455	355.725	382.030

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CANDELA TABULATION - (Cont.)

140	219.270	226.720	237.875	251.450	268.810	288.360	309.200	332.045	354.715	376.775
145	235.490	242.485	251.815	263.680	278.185	294.340	311.655	329.980	348.635	366.920
150	250.140	256.400	263.225	273.395	284.210	297.345	310.905	324.995	340.000	353.800
155	263.690	267.970	273.705	280.190	289.195	298.440	308.540	319.095	329.405	339.595
160	275.365	277.370	281.950	286.710	291.645	298.545	305.685	312.440	318.835	325.975
165	284.950	286.230	287.765	291.140	294.560	298.005	301.445	305.640	310.160	314.065
170	291.930	292.685	293.505	294.385	295.345	297.350	299.375	301.360	303.285	305.130
175	296.015	296.375	296.730	297.085	297.440	297.795	298.140	298.475	298.800	299.110
180	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000

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	360.445	360.445	360.445	360.445	360.445	360.445	360.445
5	325.825	325.405	326.035	327.710	328.505	327.040	363.965
10	228.590	251.265	249.210	248.330	247.660	245.395	278.045
15	189.650	184.830	181.145	178.840	177.120	174.730	199.755
20	138.310	133.825	129.760	127.035	125.190	123.010	139.985
25	91.995	87.595	94.845	92.415	90.740	89.105	99.920
30	69.910	72.760	71.585	69.740	68.400	67.310	73.935
35	55.825	58.845	56.835	55.535	54.735	53.940	58.005
40	47.065	45.475	47.445	46.605	46.145	45.685	48.285
45	41.030	42.205	41.495	41.030	40.825	40.615	42.415
50	36.085	36.800	36.675	36.505	36.420	36.340	37.555
55	32.020	32.860	32.690	32.610	32.525	32.480	33.360
60	29.005	28.835	28.795	28.750	28.750	28.710	29.420
65	24.060	24.770	24.770	24.855	24.940	24.855	25.400
70	19.825	20.455	20.535	20.620	20.705	20.705	21.210
75	15.510	16.055	16.180	16.305	16.390	16.430	16.765
80	11.190	11.650	11.820	11.945	12.115	12.195	12.490
85	6.285	6.330	6.540	6.580	6.665	6.705	6.875
90	2.440	2.440	2.440	2.440	2.440	2.440	2.440
95	15.085	14.705	13.940	13.485	13.185	13.975	11.360
100	58.905	55.355	52.275	49.385	47.140	46.055	43.880
105	119.900	116.010	110.880	107.740	104.990	98.105	105.325
110	208.755	201.770	201.410	194.700	190.550	189.900	196.360
115	283.705	291.705	293.335	296.015	301.720	312.800	314.090
120	344.415	358.540	371.845	381.355	391.710	397.215	399.715
125	388.250	406.415	426.545	437.215	445.750	452.505	455.415
130	403.545	426.500	444.570	458.145	469.290	476.655	479.225
135	404.785	426.735	444.100	459.085	469.920	476.805	478.970
140	397.405	416.355	432.395	445.300	455.010	461.255	463.465
145	384.545	400.065	413.375	424.310	432.025	437.015	438.985
150	367.315	379.775	390.375	398.765	405.055	408.705	410.485
155	349.405	358.540	366.305	372.375	377.185	379.600	380.895
160	332.780	338.440	343.365	347.685	350.400	352.380	353.065
165	317.690	321.005	323.990	325.990	327.465	328.715	329.220
170	306.910	308.035	309.015	309.850	310.525	311.130	311.405
175	299.405	299.680	299.935	300.170	300.485	300.590	300.720
180	297.000	297.000	297.000	297.000	297.000	297.000	297.000

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	131.99	N.A.	6.20
0-30	272.34	N.A.	12.70
0-40	427.86	N.A.	20.00
0-60	681.53	N.A.	31.90
0-80	783.24	N.A.	36.60
0-90	789.85	N.A.	36.90
10-90	755.37	N.A.	35.30
20-40	295.87	N.A.	13.80
20-50	438.91	N.A.	20.50
40-70	323.92	N.A.	15.20
60-80	101.71	N.A.	4.80
70-80	31.46	N.A.	1.50
80-90	6.61	N.A.	0.30
90-110	135.19	N.A.	6.30
90-120	350.82	N.A.	16.40
90-130	619.75	N.A.	29.00
90-150	1084.21	N.A.	50.70
90-180	1347.9	N.A.	63.10
110-180	1212.7	N.A.	56.70
0-180	2137.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	34.49
10-20	97.51
20-30	140.35
30-40	155.52
40-50	143.04
50-60	110.63
60-70	70.25
70-80	31.46
80-90	6.61
90-100	25.34
100-110	109.86
110-120	215.62
120-130	268.93
130-140	256.14
140-150	208.32
150-160	148.12
160-170	87.00
170-180	28.56

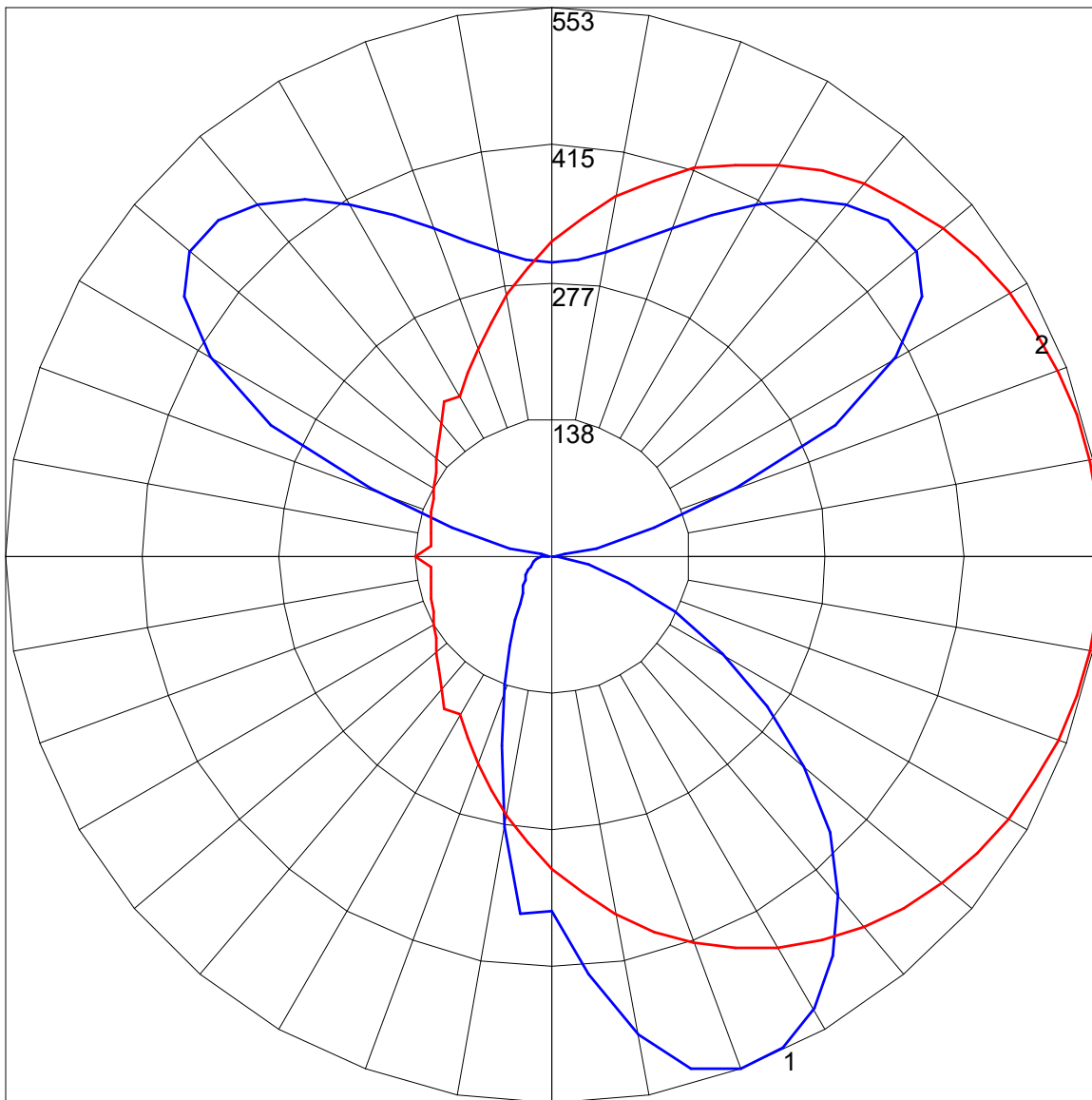
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 553.325 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.)