

IES Report

BoxRail® | 207 | Wide Batwing, up | 85° Asymmetric, down | 90 CRI | LO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-G1A1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	60	62	63	64
Total Lumens, 4' rail length (1219mm)	1717	1771	1807	1825
Lumens per foot (305mm)	429	443	452	456
Lumens per foot UP (305mm)	28.8	28.8	28.8	28.8
Lumens per foot DOWN (305mm)	287	296	302	305
Input Power (W), 4' rail length (1219mm)	142	147	150	151
Watts per foot (305mm)	7.2	7.2	7.2	7.2
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_207_BX_LO_359_G1A1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010910 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 207-BX-48-Z-LO-359-G1A1-BL

[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board, wide batwing lens up,

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

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1807
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	28.76
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)	4.00 ft
Luminous Height	0.09 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7075	6878	5427
55	4605	4386	3745
65	2412	2454	2613
75	595	1050	1827
85	100	116	900

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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	293.805	293.805	293.805	293.805	293.805	293.805	293.805	293.805	293.805	293.805
5	358.515	358.250	357.990	355.525	353.580	351.180	348.345	345.105	341.475	337.490
10	411.830	411.275	409.090	406.520	403.180	399.090	394.280	387.975	381.155	373.850
15	447.535	446.560	443.940	440.955	436.915	430.910	424.355	417.315	409.860	401.130
20	463.715	462.315	459.910	456.800	451.505	445.900	439.575	431.425	423.465	412.090
25	462.290	460.620	459.015	454.715	450.160	444.190	437.230	430.695	418.590	406.420
30	443.345	441.485	439.605	435.820	431.485	426.310	420.555	411.190	400.045	387.745
35	410.150	408.580	406.270	403.525	398.740	393.745	388.165	377.645	367.755	355.200
40	366.730	365.535	363.295	360.120	356.075	350.585	342.690	334.165	323.555	311.410
45	316.350	315.520	313.430	310.495	306.215	300.465	292.625	284.880	273.315	262.160
50	260.945	260.005	258.410	255.875	252.305	246.960	240.200	231.405	221.395	209.530
55	204.865	204.155	203.510	201.665	198.765	194.455	188.310	180.315	171.555	161.595
60	152.560	152.150	151.650	150.655	148.755	145.605	140.695	135.865	127.895	119.985
65	103.525	103.690	104.330	104.205	103.105	101.310	98.875	95.015	90.180	84.545
70	60.855	61.220	62.425	63.020	63.740	63.445	62.750	61.670	58.855	55.950
75	23.805	25.015	27.150	28.205	29.860	31.365	32.495	34.255	33.835	32.575
80	3.605	6.085	5.210	6.300	6.940	7.655	8.585	10.565	11.570	13.485
85	3.605	3.600	3.530	3.415	3.295	3.115	2.870	2.675	2.705	3.090
90	4.055	4.065	3.980	3.900	3.775	3.605	3.435	3.230	2.975	2.685
95	6.875	9.295	8.850	9.380	10.330	11.920	12.820	16.320	21.170	21.300
100	33.360	35.715	37.635	41.210	45.245	49.930	55.220	61.095	65.805	69.900
105	81.310	85.550	90.265	95.130	101.065	109.895	117.740	123.145	126.030	124.685
110	156.835	159.995	167.355	172.895	180.425	186.505	186.385	191.295	187.805	179.300
115	250.300	251.875	259.190	263.635	266.610	269.425	267.405	259.915	248.845	231.005
120	345.940	344.935	347.535	347.615	347.825	340.400	331.415	317.930	294.040	268.355
125	419.705	417.410	414.110	408.125	402.540	388.145	373.865	349.280	323.895	294.995
130	458.770	456.350	449.385	438.970	427.485	411.520	390.380	366.115	338.100	308.465
135	466.985	464.760	457.710	445.250	430.455	413.800	391.220	367.680	340.470	313.055
140	452.650	450.115	443.490	432.235	417.385	400.545	380.675	358.720	335.440	311.540
145	424.320	422.200	416.445	406.990	393.645	378.745	362.520	344.195	324.850	305.090
150	389.280	387.595	383.240	374.770	364.865	353.630	340.755	326.620	311.860	295.840
155	353.150	351.830	349.165	343.420	336.270	327.905	318.395	308.025	297.040	285.905
160	319.790	319.270	316.945	313.925	309.130	303.635	297.385	290.075	282.255	275.300
165	291.120	290.750	289.360	287.725	285.470	282.190	278.525	274.510	270.175	265.255
170	269.160	268.910	268.225	267.445	266.470	265.300	263.945	262.025	259.970	257.785
175	254.995	254.885	254.780	254.475	254.220	253.925	253.590	253.225	252.825	252.395
180	249.000	249.000	249.000	249.000	249.000	249.000	249.000	249.000	249.000	249.000

**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	293.805	293.805	293.805	293.805	293.805	293.805	293.805	293.805	293.805	293.805
5	333.180	328.575	323.715	318.630	313.360	307.945	302.425	296.850	291.245	285.295
10	366.115	358.010	349.790	339.165	328.520	317.680	306.725	295.700	284.750	273.145
15	390.455	377.535	364.400	351.130	337.790	321.860	305.750	289.655	273.855	257.200
20	399.025	385.260	371.255	352.900	334.790	317.005	296.695	276.570	257.175	236.685
25	395.145	379.320	361.160	344.265	323.070	301.980	280.450	257.255	235.255	211.975
30	373.375	357.495	340.385	320.605	302.145	278.720	257.020	231.530	207.970	184.470
35	340.745	326.020	307.140	288.445	268.170	246.620	224.225	199.700	175.400	154.220
40	298.055	281.855	265.120	247.895	228.135	207.915	182.680	162.535	147.320	126.065
45	247.830	233.025	216.500	199.760	184.300	168.690	150.530	133.395	116.765	98.950
50	195.750	177.970	164.940	155.250	144.495	130.420	116.260	102.660	88.810	75.075
55	150.010	139.795	130.405	120.495	109.180	97.820	86.635	75.670	65.970	56.210
60	112.330	103.395	95.460	87.265	79.035	71.135	63.420	55.125	48.115	42.990

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CANDELA TABULATION - (Cont.)

65	78.930	72.415	66.935	61.295	55.450	49.910	45.010	41.535	34.450	29.745
70	51.995	48.350	45.600	42.115	37.490	34.000	30.585	27.160	24.015	20.925
75	31.295	29.615	28.275	25.935	23.120	21.100	19.345	17.050	15.255	13.635
80	14.075	14.050	13.540	12.955	12.030	10.880	10.185	9.205	8.175	7.450
85	3.470	3.420	3.195	3.640	3.985	3.635	3.570	3.320	2.935	2.860
90	2.430	2.140	1.845	1.595	1.340	1.090	0.920	0.715	0.840	0.630
95	23.000	23.125	23.385	22.165	19.665	17.765	17.190	16.770	16.010	16.435
100	69.080	65.460	59.120	51.605	44.960	41.000	38.795	38.075	37.430	37.860
105	117.715	106.140	94.045	82.245	71.530	64.375	59.465	56.220	55.450	56.700
110	164.705	146.595	128.380	111.615	97.150	87.275	81.395	78.015	77.160	77.930
115	208.395	180.510	157.965	138.210	121.545	110.000	102.995	98.355	97.195	98.085
120	240.545	211.890	183.935	162.120	144.760	131.780	123.205	118.770	117.185	117.640
125	263.130	233.230	205.440	182.035	164.040	150.740	141.715	136.740	134.580	135.845
130	277.795	248.955	222.645	199.545	180.550	167.800	158.975	153.325	150.800	152.205
135	285.150	258.905	234.550	213.970	196.460	182.440	174.030	169.030	166.935	168.100
140	287.330	264.730	243.550	224.730	209.615	196.885	188.540	183.330	180.725	181.920
145	285.545	266.825	249.270	233.425	220.305	209.920	202.110	197.555	194.430	195.900
150	280.770	266.135	251.800	239.850	228.500	220.760	213.490	210.070	207.340	208.705
155	274.515	263.635	253.540	243.545	236.210	229.595	224.540	221.755	219.495	220.550
160	268.070	260.420	252.905	247.375	241.920	236.580	234.085	231.890	230.055	230.975
165	260.665	256.830	252.965	249.105	245.265	243.370	241.670	240.025	238.565	239.280
170	255.490	253.100	250.690	249.570	248.515	247.510	246.560	245.650	244.810	245.280
175	251.940	251.460	250.965	250.455	249.935	249.410	248.865	248.345	247.825	248.030
180	249.000	249.000	249.000	249.000	249.000	249.000	249.000	249.000	249.000	249.000

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	293.805	293.805	293.805	293.805	293.805	293.805	293.805	293.805	293.805	293.805
5	279.400	273.625	267.985	262.540	257.325	252.375	247.730	243.425	239.495	235.965
10	261.755	250.590	239.740	229.280	219.285	210.760	202.800	195.445	188.745	182.750
15	240.980	225.090	210.695	196.535	183.845	171.780	160.410	150.925	142.955	135.510
20	216.900	198.455	180.655	164.305	148.595	136.020	124.375	113.185	103.110	96.495
25	189.710	169.405	150.555	132.695	118.210	104.095	92.295	83.170	74.570	67.160
30	162.120	141.720	121.775	105.900	90.425	78.890	68.455	59.635	53.620	47.670
35	133.960	114.525	97.125	81.785	69.450	58.720	50.515	43.630	38.355	34.670
40	106.965	89.735	75.405	62.365	52.390	44.180	37.300	32.650	28.565	25.965
45	83.350	69.390	57.475	47.830	39.565	33.435	28.755	24.745	22.445	20.215
50	63.245	52.890	43.645	36.405	30.595	25.905	22.405	20.065	18.035	16.675
55	47.490	39.955	33.480	27.885	23.700	20.565	18.170	16.315	14.920	13.825
60	35.880	30.060	25.495	21.700	18.705	16.425	14.775	13.365	12.195	11.285
65	26.055	22.345	19.220	16.665	14.655	13.060	11.675	10.605	9.845	9.230
70	18.590	16.135	14.065	12.405	11.105	9.920	8.890	8.025	7.355	6.870
75	12.020	10.690	9.495	8.480	7.570	6.565	5.755	5.185	4.845	4.570
80	6.760	6.155	5.185	4.425	3.830	3.405	3.060	2.855	2.850	2.840
85	2.675	1.955	1.635	1.615	1.435	1.380	1.380	1.405	1.390	1.365
90	0.585	0.670	0.670	0.630	0.715	0.715	0.715	0.755	0.795	0.840
95	15.005	11.620	12.225	14.245	15.255	15.050	14.420	14.300	13.095	11.585
100	38.755	39.735	41.060	42.730	46.940	44.820	42.795	43.065	44.115	41.865
105	58.500	62.325	67.710	76.340	85.685	91.665	91.315	88.190	86.820	81.905
110	80.770	85.645	93.425	104.455	119.455	135.670	149.990	158.175	163.220	165.670
115	101.425	107.280	116.745	130.410	148.445	167.905	187.310	210.140	227.035	239.710
120	121.375	128.140	138.435	152.670	170.875	195.385	222.565	247.640	270.870	292.520
125	139.815	146.735	156.665	169.130	190.265	215.665	243.550	273.875	302.720	328.345
130	156.485	163.330	173.345	186.965	207.250	230.295	256.410	285.000	314.305	343.780
135	171.005	176.695	188.340	202.780	219.795	240.355	263.795	289.350	315.695	342.260

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CANDELA TABULATION - (Cont.)

140	185.425	191.735	201.835	213.955	229.275	247.150	266.925	288.945	310.815	332.890
145	198.790	204.805	212.900	223.195	235.985	250.425	266.855	284.365	302.275	320.025
150	210.750	216.165	222.030	230.940	240.490	252.370	264.570	277.570	291.895	304.960
155	222.150	225.730	230.655	236.195	244.100	252.155	261.105	270.715	280.085	289.400
160	232.250	233.660	237.585	241.540	245.650	251.650	257.840	263.625	269.110	275.535
165	240.195	241.205	242.285	245.190	247.970	250.740	253.475	256.945	260.785	264.150
170	245.810	246.360	246.940	247.540	248.155	249.695	251.235	252.750	254.230	255.660
175	248.240	248.475	248.705	248.940	249.170	249.405	249.635	249.865	250.085	250.300
180	249.000	249.000	249.000	249.000	249.000	249.000	249.000	249.000	249.000	249.000

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	293.805	293.805	293.805	293.805	293.805	293.805	293.805
5	232.870	230.230	228.065	226.395	225.235	224.595	224.480
10	177.535	172.760	168.845	165.825	163.730	162.570	162.365
15	128.965	123.390	118.835	115.075	112.385	110.875	110.565
20	90.630	85.310	80.875	77.475	74.885	73.360	73.010
25	62.420	58.320	54.825	51.975	49.950	48.625	48.285
30	43.235	40.425	37.965	35.920	34.405	33.450	33.195
35	31.055	29.065	27.470	26.125	25.080	24.460	24.310
40	23.740	21.985	21.000	20.100	19.420	19.020	18.860
45	18.895	17.580	16.900	16.335	15.835	15.570	15.510
50	15.590	14.750	14.130	13.730	13.400	13.180	13.160
55	12.870	12.385	12.005	11.740	11.435	11.275	11.235
60	10.710	10.240	9.865	9.655	9.670	9.620	9.640
65	8.725	8.280	7.980	7.705	7.490	7.680	7.710
70	6.655	6.505	6.285	6.090	5.660	5.495	5.785
75	4.435	4.415	4.430	4.440	4.395	3.740	3.940
80	2.805	2.825	2.825	2.845	2.895	2.970	2.600
85	1.310	1.315	1.320	1.285	1.285	1.400	1.175
90	0.840	0.755	0.670	0.670	0.670	0.630	0.580
95	10.965	11.015	11.125	10.805	10.520	11.230	10.480
100	40.845	40.685	39.490	38.175	36.990	35.775	35.795
105	82.440	82.305	81.240	81.380	80.240	71.520	87.515
110	159.680	159.555	157.425	141.175	147.930	156.875	164.545
115	249.275	259.580	258.900	264.605	274.355	300.725	304.200
120	310.240	326.300	343.335	360.650	381.170	390.995	394.895
125	357.265	376.175	401.070	416.155	428.215	437.600	441.420
130	370.185	394.715	414.200	429.005	442.550	452.685	456.255
135	366.130	388.900	407.185	423.045	436.235	445.595	448.040
140	353.880	373.315	389.530	403.810	415.280	422.285	424.570
145	336.905	352.210	365.720	377.110	385.990	391.730	393.805
150	317.665	329.465	339.680	348.185	354.975	358.665	360.190
155	298.570	307.025	314.295	320.160	324.810	327.140	328.340
160	281.620	286.795	291.305	295.220	297.665	299.190	300.005
165	267.310	270.240	272.905	274.680	275.955	276.855	277.375
170	257.045	258.005	258.845	259.555	260.130	260.565	260.860
175	250.505	250.700	250.885	251.055	251.210	251.350	251.470
180	249.000	249.000	249.000	249.000	249.000	249.000	249.000

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	105.22	N.A.	5.80
0-30	217.67	N.A.	12.00
0-40	341.20	N.A.	18.90
0-60	529.91	N.A.	29.30
0-80	595.66	N.A.	33.00
0-90	599.34	N.A.	33.20
10-90	571.75	N.A.	31.60
20-40	235.99	N.A.	13.10
20-50	345.29	N.A.	19.10
40-70	235.59	N.A.	13.00
60-80	65.74	N.A.	3.60
70-80	18.87	N.A.	1.00
80-90	3.69	N.A.	0.20
90-110	114.72	N.A.	6.30
90-120	308.71	N.A.	17.10
90-130	557.32	N.A.	30.80
90-150	979.51	N.A.	54.20
90-180	1207.51	N.A.	66.80
110-180	1092.78	N.A.	60.50
0-180	1806.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	27.59
10-20	77.62
20-30	112.45
30-40	123.54
40-50	109.31
50-60	79.40
60-70	46.88
70-80	18.87
80-90	3.69
90-100	20.81
100-110	93.91
110-120	193.99
120-130	248.61
130-140	235.26
140-150	186.93
150-160	129.47
160-170	74.44
170-180	24.08

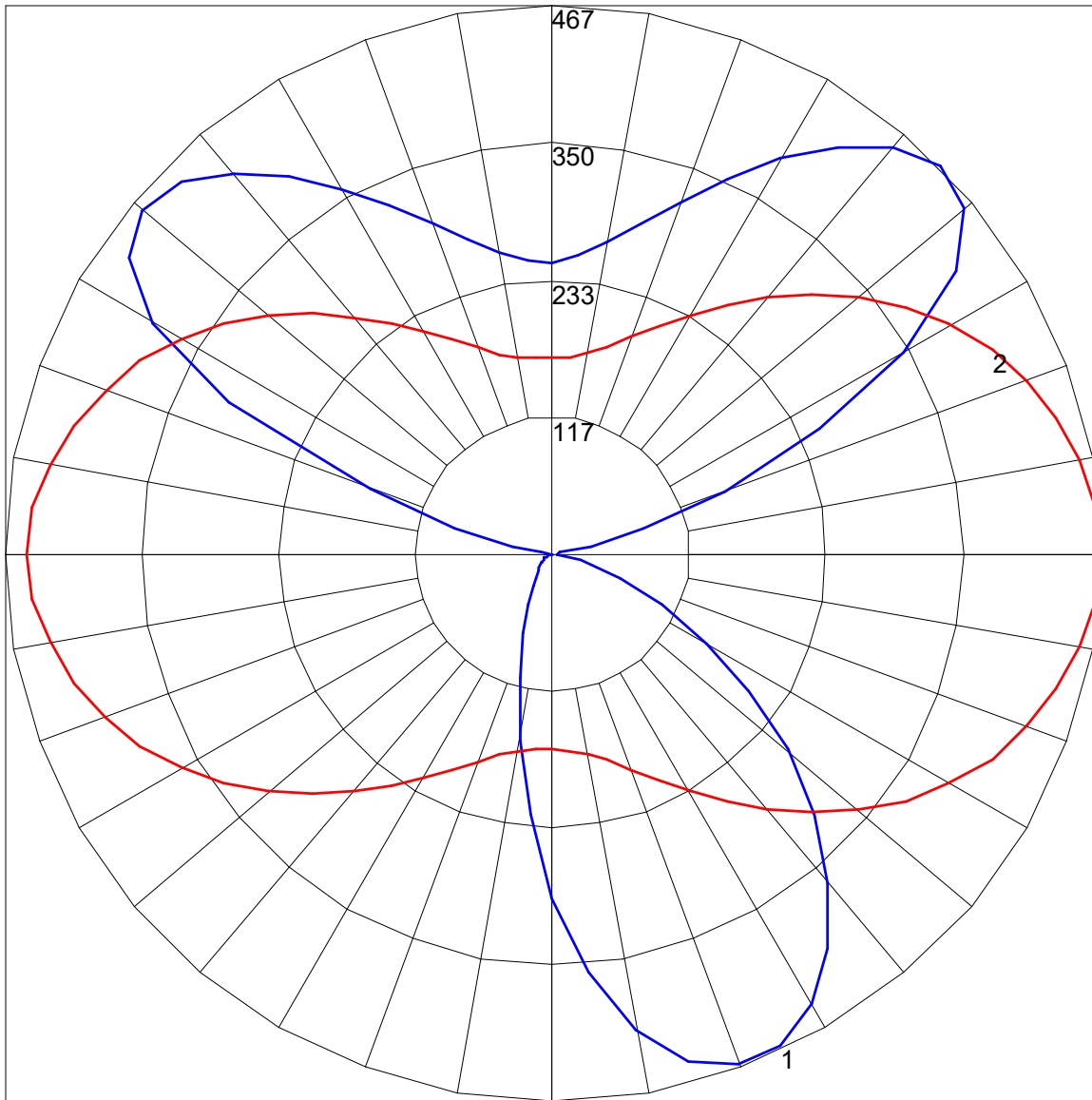
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	74	74	74	57	57	57	41	41	41	33
1	95	91	87	84	85	82	79	76	66	64	62	51	49	48	37	36	35	29
2	86	80	74	69	78	72	67	63	58	55	52	45	43	41	33	32	31	25
3	79	70	63	58	71	64	58	53	51	47	44	40	37	35	30	28	26	22
4	73	62	55	49	65	57	50	45	46	41	38	36	33	30	27	25	23	19
5	67	56	48	42	60	51	44	39	41	36	33	32	29	27	24	22	20	17
6	61	50	42	37	55	46	39	34	37	32	29	29	26	23	22	20	18	15
7	57	45	38	32	51	41	35	30	34	29	25	27	23	21	20	18	16	13
8	53	41	34	29	48	38	31	27	31	26	23	25	21	19	19	16	15	12
9	49	37	30	25	44	34	28	24	28	24	20	23	19	17	17	15	13	11
10	46	34	27	23	41	31	25	21	26	21	18	21	18	15	16	14	12	10

POLAR GRAPH



Maximum Candela = 466.985 Located At Horizontal Angle = 0, Vertical Angle = 135
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (135) (Through Max. Cd.)