

IES Report

BoxRail[®] | 207 | Wide Batwing, up | 85° Asymmetric, down | 80 CRI | LO

207-BX-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	84	87	88	88
Total Lumens, 4' rail length (1219mm)	2401	2476	2527	2527
Lumens per foot (305mm)	600	619	632	632
Lumens per foot UP (305mm)	373	385	393	393
Lumens per foot DOWN (305mm)	227	234	239	239
Input Power (W), 4' rail length (1219mm)	28.8	28.8	28.8	28.8
Watts per foot (305mm)	7.2	7.2	7.2	7.2
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_207_BX_LO_35_G1A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010904 (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-35-G1A1

[LUMINAIRE] BoxRail 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	2527
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
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	10754	11033	8815
55	7066	7493	7177
65	3717	4410	5720
75	898	1907	4377
85	129	152	2135

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_207_BX_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	382.22	382.22	382.22	382.22	382.22	382.22	382.22	382.22	382.22	382.22
5	479.66	479.08	479.08	475.02	472.12	468.64	464.58	459.36	454.14	447.76
10	566.66	566.08	562.60	558.54	553.32	546.94	538.82	528.96	518.52	506.92
15	635.68	634.52	629.88	624.66	617.12	607.26	596.24	584.06	570.72	555.64
20	673.38	671.64	667.58	661.78	653.08	643.22	632.20	618.86	605.52	585.80
25	681.50	679.18	676.28	669.90	662.36	653.08	642.06	631.62	611.32	590.44
30	660.04	657.72	654.82	649.60	643.22	635.68	627.56	612.48	595.08	576.52
35	616.54	614.22	611.32	607.84	601.46	594.50	586.38	571.88	559.12	541.14
40	554.48	552.74	550.42	546.94	542.30	535.92	526.06	515.62	503.44	486.62
45	480.82	479.66	477.34	474.44	469.80	464.58	455.88	448.34	433.84	420.50
50	397.88	397.30	395.56	393.82	390.92	386.28	379.90	370.62	359.60	346.26
55	314.36	313.20	313.78	312.62	310.30	307.40	302.76	294.06	285.94	276.08
60	233.16	233.16	233.74	234.32	233.74	231.42	228.52	223.88	216.92	209.96
65	159.50	160.66	161.82	162.40	162.98	162.98	161.82	160.08	156.60	151.96
70	92.80	93.96	96.28	98.02	100.34	102.08	103.24	104.40	103.24	101.50
75	35.96	38.28	41.76	43.50	46.40	51.04	53.94	56.26	58.00	59.16
80	5.80	9.28	8.12	9.28	10.44	12.18	13.92	16.82	19.14	22.62
85	4.64	4.64	4.64	4.64	4.64	4.06	4.06	3.48	3.48	4.06
90	5.22	5.22	5.22	5.22	4.64	4.64	4.64	4.06	4.06	3.48
95	12.18	16.82	16.82	17.40	18.56	20.88	22.04	25.52	29.00	31.32
100	52.20	55.68	58.58	62.06	67.28	71.92	77.72	83.52	87.58	91.06
105	118.32	121.80	126.44	131.66	137.46	146.16	153.70	157.76	160.08	156.02
110	215.76	216.34	222.72	227.36	234.32	239.54	244.18	242.44	234.32	220.40
115	333.50	332.34	332.92	335.24	335.82	336.40	331.18	319.58	304.50	281.88
120	439.06	437.32	432.68	430.36	428.04	416.44	403.10	385.70	356.12	325.38
125	513.30	509.82	503.44	495.32	486.04	468.06	449.50	420.50	390.34	356.70
130	545.20	542.30	534.76	523.74	509.82	490.68	466.32	437.90	405.42	372.36
135	545.78	543.46	535.34	524.32	509.24	490.68	465.74	439.06	408.90	378.74
140	524.90	522.58	516.20	505.76	492.42	475.02	453.56	430.36	404.84	379.32
145	494.74	492.42	487.20	478.50	466.90	452.98	436.16	417.02	396.14	375.26
150	461.10	459.36	455.30	448.34	439.64	428.62	415.28	400.78	385.12	368.30
155	428.04	426.88	423.98	418.76	412.38	404.84	394.98	384.54	372.94	361.92
160	398.46	397.88	395.56	392.66	388.02	382.80	377.00	369.46	361.34	354.38
165	373.52	372.94	371.78	370.04	367.72	364.82	361.34	357.28	353.22	348.58
170	354.96	354.38	353.80	353.22	352.06	351.48	350.32	348.00	346.26	344.52
175	343.94	343.94	343.94	343.36	343.36	343.36	342.78	342.78	342.20	342.20
180	342.20	342.20	342.20	342.20	342.20	342.20	342.20	342.20	342.20	342.20

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	382.22	382.22	382.22	382.22	382.22	382.22	382.22	382.22	382.22	382.22
5	441.38	434.42	427.46	419.34	411.80	403.68	394.98	386.86	378.16	370.62
10	494.16	481.40	468.06	452.40	436.16	419.92	403.68	386.86	370.04	354.38
15	538.24	517.94	497.06	475.60	454.14	430.36	406.00	382.22	357.86	335.82
20	563.76	539.98	515.62	486.62	457.04	428.62	397.88	367.72	338.14	309.72
25	570.14	544.62	515.04	486.62	452.98	419.92	386.28	351.48	317.26	284.78
30	554.48	530.12	503.44	469.80	437.90	400.78	365.40	327.12	290.00	256.36
35	519.68	497.64	468.64	438.48	404.26	369.46	334.08	296.38	259.84	225.62
40	468.06	444.28	419.34	391.50	359.02	327.12	292.32	258.68	225.62	194.30
45	401.36	381.64	360.76	334.66	307.98	279.56	248.82	219.24	189.66	162.98
50	332.92	315.52	296.38	276.66	254.62	229.68	201.26	174.58	156.60	133.98
55	263.90	249.40	233.16	216.34	197.78	181.54	164.14	145.58	126.44	109.04
60	200.10	184.44	172.84	163.56	153.70	142.10	128.18	113.10	99.76	85.84

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_207_BX_LO_35_G1A1.IES

CANDELA TABULATION - (Cont.)

65	146.16	139.78	132.82	124.70	116.00	106.14	96.86	85.26	75.40	66.12
70	98.60	95.12	91.64	87.00	81.20	75.40	69.02	61.48	55.10	50.46
75	59.16	58.58	59.16	57.42	53.94	51.04	46.40	40.02	36.54	33.06
80	24.94	26.68	29.00	27.84	26.68	25.52	23.78	21.46	19.72	18.56
85	5.22	5.22	5.22	6.38	6.96	7.54	7.54	7.54	6.96	6.96
90	2.90	2.90	2.32	1.74	1.74	1.74	1.16	1.16	1.16	1.16
95	32.48	31.90	35.38	30.16	26.68	24.94	23.20	21.46	21.46	21.46
100	88.74	82.94	75.40	66.12	57.42	53.36	49.30	46.40	46.40	46.40
105	146.16	132.82	117.74	103.24	91.64	83.52	77.14	73.66	74.24	75.40
110	201.84	180.96	160.08	140.36	124.12	113.10	107.30	102.66	102.08	104.98
115	254.62	225.04	196.62	173.42	155.44	142.68	135.14	129.92	129.34	132.24
120	292.90	259.84	227.94	202.42	184.44	171.10	161.82	157.76	157.18	158.92
125	319.58	285.36	255.20	227.94	209.96	196.04	186.76	182.12	180.96	183.86
130	337.56	305.66	277.24	252.88	232.58	219.24	208.22	200.68	199.52	205.90
135	348.00	319.58	294.06	272.02	253.46	240.12	232.00	226.78	225.04	229.10
140	353.22	328.86	306.82	287.10	271.44	258.68	251.14	247.08	244.76	248.82
145	354.38	334.08	316.68	300.44	287.10	276.66	269.12	266.22	264.48	268.54
150	353.22	337.56	323.06	310.88	299.86	292.32	285.36	283.62	282.46	285.94
155	350.32	338.72	328.86	319.00	312.04	305.66	301.02	299.86	298.70	301.60
160	347.42	339.30	332.34	326.54	321.32	316.68	314.94	313.78	313.20	316.10
165	343.94	339.88	336.40	332.34	328.86	327.70	326.54	325.96	325.38	327.12
170	342.20	339.88	338.14	337.56	336.40	336.40	335.82	335.24	335.24	336.40
175	342.20	341.62	341.62	341.62	341.04	341.04	341.04	340.46	340.46	341.04
180	342.20	342.20	342.20	342.20	342.20	342.20	342.20	342.20	342.20	342.20

Vert. Angles **Horizontal Angles**

	100	105	110	115	120	125	130	135	140	145
0	382.22	382.22	382.22	382.22	382.22	382.22	382.22	382.22	382.22	382.22
5	362.50	354.38	346.84	339.30	332.34	325.96	319.58	313.78	308.56	303.92
10	339.30	324.22	309.14	295.22	281.88	270.86	261.00	251.72	243.02	235.48
15	313.78	291.74	272.60	254.62	238.38	222.72	208.22	197.20	188.50	180.96
20	282.46	257.52	234.90	214.60	194.30	180.96	168.78	156.60	146.16	139.20
25	253.46	226.20	201.84	179.22	162.40	146.74	134.56	125.28	116.58	109.62
30	223.30	196.62	171.10	151.96	133.98	121.22	110.20	100.92	95.12	89.90
35	194.30	168.20	145.58	126.44	111.94	100.34	91.64	84.68	79.46	75.98
40	165.88	140.94	122.38	106.14	93.96	84.68	77.72	73.08	69.02	66.12
45	139.20	117.74	102.08	89.32	78.88	71.92	67.28	63.22	60.90	58.58
50	114.84	98.60	84.68	74.82	67.86	62.06	58.00	55.68	53.36	52.20
55	93.38	80.62	70.76	62.64	56.84	53.36	50.46	48.72	46.98	45.82
60	74.82	65.54	58.00	52.20	47.56	44.66	42.92	41.18	39.44	38.86
65	58.00	51.62	46.40	41.76	38.86	36.54	34.80	33.64	33.06	32.48
70	43.50	38.86	34.80	31.90	30.16	29.00	27.84	26.68	26.10	25.52
75	29.58	26.10	23.78	22.62	22.04	20.30	19.14	17.98	16.82	15.66
80	16.24	14.50	14.50	13.34	12.18	11.02	9.86	9.28	9.28	9.86
85	6.38	5.22	5.22	5.22	4.64	4.06	4.06	4.06	4.06	4.64
90	0.58	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
95	22.04	19.14	19.14	20.88	21.46	20.30	20.88	19.14	17.98	15.66
100	49.30	53.36	59.74	62.06	66.12	66.70	66.70	62.06	60.32	57.42
105	78.30	84.68	93.96	106.14	120.06	129.92	135.14	132.82	130.50	122.96
110	108.46	115.42	127.02	143.84	163.56	182.70	198.36	214.60	224.46	222.14
115	137.46	145.58	159.50	176.90	200.10	229.68	258.10	281.88	301.60	316.10
120	165.30	175.16	189.08	207.64	233.16	266.22	300.44	330.60	359.60	385.12
125	190.82	200.68	214.60	235.48	262.16	294.64	330.02	368.88	404.26	433.84
130	213.44	224.46	239.54	260.42	286.52	316.68	350.32	386.86	422.82	458.20
135	236.06	246.50	261.58	281.30	304.50	332.34	363.08	396.72	429.20	461.10

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_207_BX_LO_35_G1A1.IES

CANDELA TABULATION - (Cont.)

140	255.78	266.22	280.14	297.54	319.58	343.94	370.04	399.04	426.88	454.72
145	274.34	283.62	295.80	310.88	329.44	349.74	371.78	394.98	418.18	440.80
150	290.58	299.28	308.56	321.32	335.24	352.06	369.46	387.44	406.58	423.40
155	305.66	312.04	319.58	328.28	339.88	352.06	364.82	378.16	391.50	404.26
160	319.00	321.90	328.28	334.66	341.62	350.32	359.60	368.30	376.42	385.70
165	329.44	332.34	334.66	339.30	343.94	348.58	353.22	359.02	364.82	370.04
170	337.56	339.30	341.04	342.20	343.94	346.84	349.16	352.06	354.38	357.28
175	341.62	342.78	343.36	343.94	344.52	345.10	345.68	346.26	346.84	347.42
180	342.20	342.20	342.20	342.20	342.20	342.20	342.20	342.20	342.20	342.20

Vert. Horizontal Angles
Angles

	150	155	160	165	170	175	180
0	382.22	382.22	382.22	382.22	382.22	382.22	382.22
5	299.28	295.80	292.90	290.58	289.42	288.26	288.26
10	229.10	223.30	218.08	214.60	211.70	210.54	209.96
15	174.00	167.62	162.98	158.92	156.02	154.28	154.28
20	133.40	128.18	124.12	120.64	117.74	116.58	116.00
25	104.98	101.50	98.02	95.70	93.38	92.22	92.22
30	85.84	83.52	81.20	79.46	78.30	77.72	77.14
35	73.08	71.34	70.18	69.02	67.86	67.86	67.86
40	64.38	62.64	62.06	61.48	61.48	60.90	60.90
45	57.42	56.26	56.26	56.26	56.26	56.26	56.26
50	51.62	51.04	51.04	51.04	51.62	51.62	51.62
55	45.24	45.24	45.82	46.40	46.98	46.98	46.98
60	38.28	38.28	38.86	39.44	41.18	42.34	42.34
65	31.90	31.90	31.90	32.48	33.06	35.96	36.54
70	25.52	25.52	25.52	24.94	23.78	25.52	27.84
75	15.66	15.66	15.66	16.82	16.82	15.08	17.98
80	9.86	10.44	11.02	11.60	12.18	11.60	12.18
85	4.64	5.22	5.22	5.80	5.80	5.80	6.38
90	1.16	1.16	1.16	1.16	1.16	1.16	0.58
95	14.50	14.50	14.50	15.08	15.08	16.24	15.08
100	54.52	52.78	52.20	50.46	49.30	48.14	48.14
105	118.90	117.16	114.84	114.84	113.10	100.92	123.54
110	226.78	218.66	222.72	205.90	211.12	222.72	233.74
115	328.86	338.14	342.78	347.42	363.08	398.46	403.10
120	404.26	421.66	442.54	462.26	486.62	497.64	500.54
125	466.90	489.52	519.10	535.92	546.94	555.64	559.70
130	489.52	517.94	540.56	556.22	569.56	578.84	582.32
135	490.68	517.94	538.24	553.32	567.24	575.94	578.84
140	480.24	503.44	520.84	535.92	548.10	556.22	559.12
145	462.26	480.82	496.48	509.82	519.68	526.06	528.38
150	439.64	454.72	467.48	477.92	486.04	490.68	492.42
155	416.44	427.46	436.74	444.28	450.08	453.56	454.72
160	394.40	401.36	407.74	412.96	416.44	418.18	419.34
165	374.68	378.74	382.80	385.12	386.86	388.60	389.18
170	359.60	361.34	362.50	363.66	364.82	365.40	365.98
175	348.00	348.58	348.58	349.16	349.74	349.74	350.32
180	342.20	342.20	342.20	342.20	342.20	342.20	342.20

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	142.53	N.A.	5.60
0-30	305.58	N.A.	12.10
0-40	496.67	N.A.	19.70
0-60	819.10	N.A.	32.40
0-80	947.53	N.A.	37.50
0-90	955.24	N.A.	37.80
10-90	918.91	N.A.	36.40
20-40	354.15	N.A.	14.00
20-50	535.29	N.A.	21.20
40-70	411.94	N.A.	16.30
60-80	128.43	N.A.	5.10
70-80	38.91	N.A.	1.50
80-90	7.71	N.A.	0.30
90-110	155.67	N.A.	6.20
90-120	407.27	N.A.	16.10
90-130	723.77	N.A.	28.60
90-150	1266.71	N.A.	50.10
90-180	1571.73	N.A.	62.20
110-180	1416.06	N.A.	56.00
0-180	2526.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	36.32
10-20	106.20
20-30	163.05
30-40	191.09
40-50	181.14
50-60	141.28
60-70	89.51
70-80	38.91
80-90	7.71
90-100	29.07
100-110	126.61
110-120	251.59
120-130	316.51
130-140	300.46
140-150	242.47
150-160	171.50
160-170	100.56
170-180	32.97

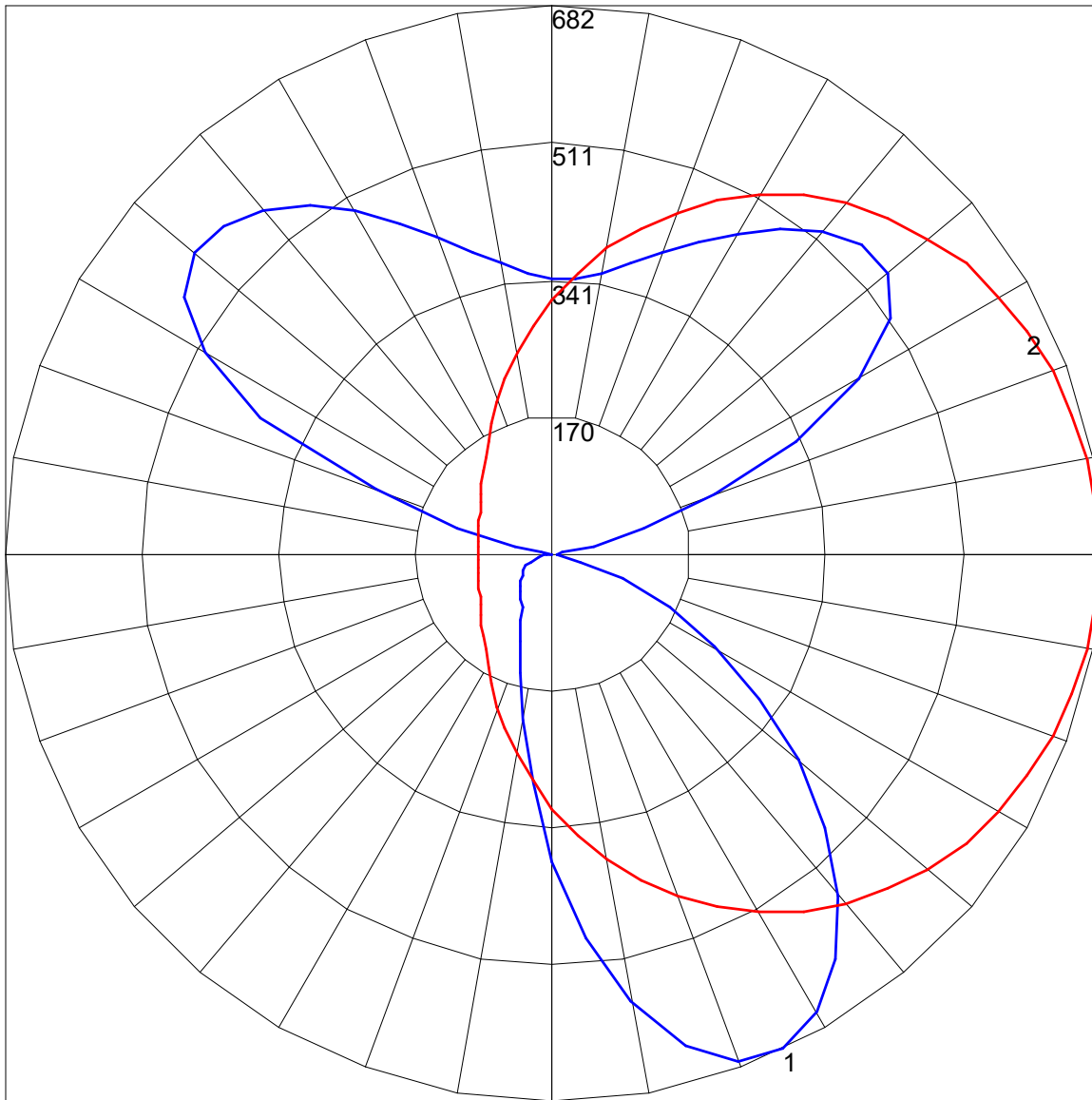
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	88	84	87	83	80	77	68	66	64	53	52	51	40	39	39	33
2	87	80	74	69	79	73	68	64	60	56	53	47	45	43	36	34	33	28
3	80	71	64	58	72	64	58	54	53	48	45	42	39	37	32	30	28	24
4	73	63	55	49	66	57	51	46	47	42	38	38	34	31	29	26	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	37	56	46	39	34	38	33	29	30	27	24	24	21	19	16
7	57	45	37	32	52	41	35	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	38	31	26	31	26	23	25	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14	12
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

POLAR GRAPH



Maximum Candela = 681.5 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)