

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-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	72	75	76	77
Total Lumens, 4' rail length (1219mm)	2069	2135	2178	2200
Lumens per foot (305mm)	517	534	545	550
Lumens per foot UP (305mm)	322	332	339	342
Lumens per foot DOWN (305mm)	196	202	206	208
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	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.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

[ISSUEDATE] 12/23/2019

[MANUFAC] Vode Lighting

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

[LUMINAIRE] BoxRail 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	2178
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
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	9270	9511	7599
55	6091	6459	6187
65	3204	3802	4931
75	774	1644	3773
85	111	131	1840

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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	329.5	329.5	329.5	329.5	329.5	329.5	329.5	329.5	329.5	329.5
5	413.5	413.0	413.0	409.5	407.0	404.0	400.5	396.0	391.5	386.0
10	488.5	488.0	485.0	481.5	477.0	471.5	464.5	456.0	447.0	437.0
15	548.0	547.0	543.0	538.5	532.0	523.5	514.0	503.5	492.0	479.0
20	580.5	579.0	575.5	570.5	563.0	554.5	545.0	533.5	522.0	505.0
25	587.5	585.5	583.0	577.5	571.0	563.0	553.5	544.5	527.0	509.0
30	569.0	567.0	564.5	560.0	554.5	548.0	541.0	528.0	513.0	497.0
35	531.5	529.5	527.0	524.0	518.5	512.5	505.5	493.0	482.0	466.5
40	478.0	476.5	474.5	471.5	467.5	462.0	453.5	444.5	434.0	419.5
45	414.5	413.5	411.5	409.0	405.0	400.5	393.0	386.5	374.0	362.5
50	343.0	342.5	341.0	339.5	337.0	333.0	327.5	319.5	310.0	298.5
55	271.0	270.0	270.5	269.5	267.5	265.0	261.0	253.5	246.5	238.0
60	201.0	201.0	201.5	202.0	201.5	199.5	197.0	193.0	187.0	181.0
65	137.5	138.5	139.5	140.0	140.5	140.5	139.5	138.0	135.0	131.0
70	80.0	81.0	83.0	84.5	86.5	88.0	89.0	90.0	89.0	87.5
75	31.0	33.0	36.0	37.5	40.0	44.0	46.5	48.5	50.0	51.0
80	5.0	8.0	7.0	8.0	9.0	10.5	12.0	14.5	16.5	19.5
85	4.0	4.0	4.0	4.0	4.0	3.5	3.5	3.0	3.0	3.5
90	4.5	4.5	4.5	4.5	4.0	4.0	4.0	3.5	3.5	3.0
95	10.5	14.5	14.5	15.0	16.0	18.0	19.0	22.0	25.0	27.0
100	45.0	48.0	50.5	53.5	58.0	62.0	67.0	72.0	75.5	78.5
105	102.0	105.0	109.0	113.5	118.5	126.0	132.5	136.0	138.0	134.5
110	186.0	186.5	192.0	196.0	202.0	206.5	210.5	209.0	202.0	190.0
115	287.5	286.5	287.0	289.0	289.5	290.0	285.5	275.5	262.5	243.0
120	378.5	377.0	373.0	371.0	369.0	359.0	347.5	332.5	307.0	280.5
125	442.5	439.5	434.0	427.0	419.0	403.5	387.5	362.5	336.5	307.5
130	470.0	467.5	461.0	451.5	439.5	423.0	402.0	377.5	349.5	321.0
135	470.5	468.5	461.5	452.0	439.0	423.0	401.5	378.5	352.5	326.5
140	452.5	450.5	445.0	436.0	424.5	409.5	391.0	371.0	349.0	327.0
145	426.5	424.5	420.0	412.5	402.5	390.5	376.0	359.5	341.5	323.5
150	397.5	396.0	392.5	386.5	379.0	369.5	358.0	345.5	332.0	317.5
155	369.0	368.0	365.5	361.0	355.5	349.0	340.5	331.5	321.5	312.0
160	343.5	343.0	341.0	338.5	334.5	330.0	325.0	318.5	311.5	305.5
165	322.0	321.5	320.5	319.0	317.0	314.5	311.5	308.0	304.5	300.5
170	306.0	305.5	305.0	304.5	303.5	303.0	302.0	300.0	298.5	297.0
175	296.5	296.5	296.5	296.0	296.0	296.0	295.5	295.5	295.0	295.0
180	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0

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	329.5	329.5	329.5	329.5	329.5	329.5	329.5	329.5	329.5	329.5
5	380.5	374.5	368.5	361.5	355.0	348.0	340.5	333.5	326.0	319.5
10	426.0	415.0	403.5	390.0	376.0	362.0	348.0	333.5	319.0	305.5
15	464.0	446.5	428.5	410.0	391.5	371.0	350.0	329.5	308.5	289.5
20	486.0	465.5	444.5	419.5	394.0	369.5	343.0	317.0	291.5	267.0
25	491.5	469.5	444.0	419.5	390.5	362.0	333.0	303.0	273.5	245.5
30	478.0	457.0	434.0	405.0	377.5	345.5	315.0	282.0	250.0	221.0
35	448.0	429.0	404.0	378.0	348.5	318.5	288.0	255.5	224.0	194.5
40	403.5	383.0	361.5	337.5	309.5	282.0	252.0	223.0	194.5	167.5
45	346.0	329.0	311.0	288.5	265.5	241.0	214.5	189.0	163.5	140.5
50	287.0	272.0	255.5	238.5	219.5	198.0	173.5	150.5	135.0	115.5
55	227.5	215.0	201.0	186.5	170.5	156.5	141.5	125.5	109.0	94.0
60	172.5	159.0	149.0	141.0	132.5	122.5	110.5	97.5	86.0	74.0

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CANDELA TABULATION - (Cont.)

65	126.0	120.5	114.5	107.5	100.0	91.5	83.5	73.5	65.0	57.0
70	85.0	82.0	79.0	75.0	70.0	65.0	59.5	53.0	47.5	43.5
75	51.0	50.5	51.0	49.5	46.5	44.0	40.0	34.5	31.5	28.5
80	21.5	23.0	25.0	24.0	23.0	22.0	20.5	18.5	17.0	16.0
85	4.5	4.5	4.5	5.5	6.0	6.5	6.5	6.5	6.0	6.0
90	2.5	2.5	2.0	1.5	1.5	1.5	1.0	1.0	1.0	1.0
95	28.0	27.5	30.5	26.0	23.0	21.5	20.0	18.5	18.5	18.5
100	76.5	71.5	65.0	57.0	49.5	46.0	42.5	40.0	40.0	40.0
105	126.0	114.5	101.5	89.0	79.0	72.0	66.5	63.5	64.0	65.0
110	174.0	156.0	138.0	121.0	107.0	97.5	92.5	88.5	88.0	90.5
115	219.5	194.0	169.5	149.5	134.0	123.0	116.5	112.0	111.5	114.0
120	252.5	224.0	196.5	174.5	159.0	147.5	139.5	136.0	135.5	137.0
125	275.5	246.0	220.0	196.5	181.0	169.0	161.0	157.0	156.0	158.5
130	291.0	263.5	239.0	218.0	200.5	189.0	179.5	173.0	172.0	177.5
135	300.0	275.5	253.5	234.5	218.5	207.0	200.0	195.5	194.0	197.5
140	304.5	283.5	264.5	247.5	234.0	223.0	216.5	213.0	211.0	214.5
145	305.5	288.0	273.0	259.0	247.5	238.5	232.0	229.5	228.0	231.5
150	304.5	291.0	278.5	268.0	258.5	252.0	246.0	244.5	243.5	246.5
155	302.0	292.0	283.5	275.0	269.0	263.5	259.5	258.5	257.5	260.0
160	299.5	292.5	286.5	281.5	277.0	273.0	271.5	270.5	270.0	272.5
165	296.5	293.0	290.0	286.5	283.5	282.5	281.5	281.0	280.5	282.0
170	295.0	293.0	291.5	291.0	290.0	290.0	289.5	289.0	289.0	290.0
175	295.0	294.5	294.5	294.5	294.0	294.0	294.0	293.5	293.5	294.0
180	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	329.5	329.5	329.5	329.5	329.5	329.5	329.5	329.5	329.5	329.5
5	312.5	305.5	299.0	292.5	286.5	281.0	275.5	270.5	266.0	262.0
10	292.5	279.5	266.5	254.5	243.0	233.5	225.0	217.0	209.5	203.0
15	270.5	251.5	235.0	219.5	205.5	192.0	179.5	170.0	162.5	156.0
20	243.5	222.0	202.5	185.0	167.5	156.0	145.5	135.0	126.0	120.0
25	218.5	195.0	174.0	154.5	140.0	126.5	116.0	108.0	100.5	94.5
30	192.5	169.5	147.5	131.0	115.5	104.5	95.0	87.0	82.0	77.5
35	167.5	145.0	125.5	109.0	96.5	86.5	79.0	73.0	68.5	65.5
40	143.0	121.5	105.5	91.5	81.0	73.0	67.0	63.0	59.5	57.0
45	120.0	101.5	88.0	77.0	68.0	62.0	58.0	54.5	52.5	50.5
50	99.0	85.0	73.0	64.5	58.5	53.5	50.0	48.0	46.0	45.0
55	80.5	69.5	61.0	54.0	49.0	46.0	43.5	42.0	40.5	39.5
60	64.5	56.5	50.0	45.0	41.0	38.5	37.0	35.5	34.0	33.5
65	50.0	44.5	40.0	36.0	33.5	31.5	30.0	29.0	28.5	28.0
70	37.5	33.5	30.0	27.5	26.0	25.0	24.0	23.0	22.5	22.0
75	25.5	22.5	20.5	19.5	19.0	17.5	16.5	15.5	14.5	13.5
80	14.0	12.5	12.5	11.5	10.5	9.5	8.5	8.0	8.0	8.5
85	5.5	4.5	4.5	4.5	4.0	3.5	3.5	3.5	3.5	4.0
90	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
95	19.0	16.5	16.5	18.0	18.5	17.5	18.0	16.5	15.5	13.5
100	42.5	46.0	51.5	53.5	57.0	57.5	57.5	53.5	52.0	49.5
105	67.5	73.0	81.0	91.5	103.5	112.0	116.5	114.5	112.5	106.0
110	93.5	99.5	109.5	124.0	141.0	157.5	171.0	185.0	193.5	191.5
115	118.5	125.5	137.5	152.5	172.5	198.0	222.5	243.0	260.0	272.5
120	142.5	151.0	163.0	179.0	201.0	229.5	259.0	285.0	310.0	332.0
125	164.5	173.0	185.0	203.0	226.0	254.0	284.5	318.0	348.5	374.0
130	184.0	193.5	206.5	224.5	247.0	273.0	302.0	333.5	364.5	395.0
135	203.5	212.5	225.5	242.5	262.5	286.5	313.0	342.0	370.0	397.5

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CANDELA TABULATION - (Cont.)

140	220.5	229.5	241.5	256.5	275.5	296.5	319.0	344.0	368.0	392.0
145	236.5	244.5	255.0	268.0	284.0	301.5	320.5	340.5	360.5	380.0
150	250.5	258.0	266.0	277.0	289.0	303.5	318.5	334.0	350.5	365.0
155	263.5	269.0	275.5	283.0	293.0	303.5	314.5	326.0	337.5	348.5
160	275.0	277.5	283.0	288.5	294.5	302.0	310.0	317.5	324.5	332.5
165	284.0	286.5	288.5	292.5	296.5	300.5	304.5	309.5	314.5	319.0
170	291.0	292.5	294.0	295.0	296.5	299.0	301.0	303.5	305.5	308.0
175	294.5	295.5	296.0	296.5	297.0	297.5	298.0	298.5	299.0	299.5
180	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0

**Vert.
Angles**

Horizontal Angles

	150	155	160	165	170	175	180
0	329.5	329.5	329.5	329.5	329.5	329.5	329.5
5	258.0	255.0	252.5	250.5	249.5	248.5	248.5
10	197.5	192.5	188.0	185.0	182.5	181.5	181.0
15	150.0	144.5	140.5	137.0	134.5	133.0	133.0
20	115.0	110.5	107.0	104.0	101.5	100.5	100.0
25	90.5	87.5	84.5	82.5	80.5	79.5	79.5
30	74.0	72.0	70.0	68.5	67.5	67.0	66.5
35	63.0	61.5	60.5	59.5	58.5	58.5	58.5
40	55.5	54.0	53.5	53.0	53.0	52.5	52.5
45	49.5	48.5	48.5	48.5	48.5	48.5	48.5
50	44.5	44.0	44.0	44.0	44.5	44.5	44.5
55	39.0	39.0	39.5	40.0	40.5	40.5	40.5
60	33.0	33.0	33.5	34.0	35.5	36.5	36.5
65	27.5	27.5	27.5	28.0	28.5	31.0	31.5
70	22.0	22.0	22.0	21.5	20.5	22.0	24.0
75	13.5	13.5	13.5	14.5	14.5	13.0	15.5
80	8.5	9.0	9.5	10.0	10.5	10.0	10.5
85	4.0	4.5	4.5	5.0	5.0	5.0	5.5
90	1.0	1.0	1.0	1.0	1.0	1.0	0.5
95	12.5	12.5	12.5	13.0	13.0	14.0	13.0
100	47.0	45.5	45.0	43.5	42.5	41.5	41.5
105	102.5	101.0	99.0	99.0	97.5	87.0	106.5
110	195.5	188.5	192.0	177.5	182.0	192.0	201.5
115	283.5	291.5	295.5	299.5	313.0	343.5	347.5
120	348.5	363.5	381.5	398.5	419.5	429.0	431.5
125	402.5	422.0	447.5	462.0	471.5	479.0	482.5
130	422.0	446.5	466.0	479.5	491.0	499.0	502.0
135	423.0	446.5	464.0	477.0	489.0	496.5	499.0
140	414.0	434.0	449.0	462.0	472.5	479.5	482.0
145	398.5	414.5	428.0	439.5	448.0	453.5	455.5
150	379.0	392.0	403.0	412.0	419.0	423.0	424.5
155	359.0	368.5	376.5	383.0	388.0	391.0	392.0
160	340.0	346.0	351.5	356.0	359.0	360.5	361.5
165	323.0	326.5	330.0	332.0	333.5	335.0	335.5
170	310.0	311.5	312.5	313.5	314.5	315.0	315.5
175	300.0	300.5	300.5	301.0	301.5	301.5	302.0
180	295.0	295.0	295.0	295.0	295.0	295.0	295.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	122.87	N.A.	5.60
0-30	263.43	N.A.	12.10
0-40	428.17	N.A.	19.70
0-60	706.12	N.A.	32.40
0-80	816.83	N.A.	37.50
0-90	823.48	N.A.	37.80
10-90	792.17	N.A.	36.40
20-40	305.30	N.A.	14.00
20-50	461.46	N.A.	21.20
40-70	355.12	N.A.	16.30
60-80	110.71	N.A.	5.10
70-80	33.55	N.A.	1.50
80-90	6.65	N.A.	0.30
90-110	134.20	N.A.	6.20
90-120	351.09	N.A.	16.10
90-130	623.94	N.A.	28.60
90-150	1091.99	N.A.	50.10
90-180	1354.94	N.A.	62.20
110-180	1220.74	N.A.	56.00
0-180	2178.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	31.31
10-20	91.56
20-30	140.56
30-40	164.74
40-50	156.16
50-60	121.80
60-70	77.17
70-80	33.55
80-90	6.65
90-100	25.06
100-110	109.14
110-120	216.89
120-130	272.85
130-140	259.02
140-150	209.03
150-160	147.84
160-170	86.69
170-180	28.42

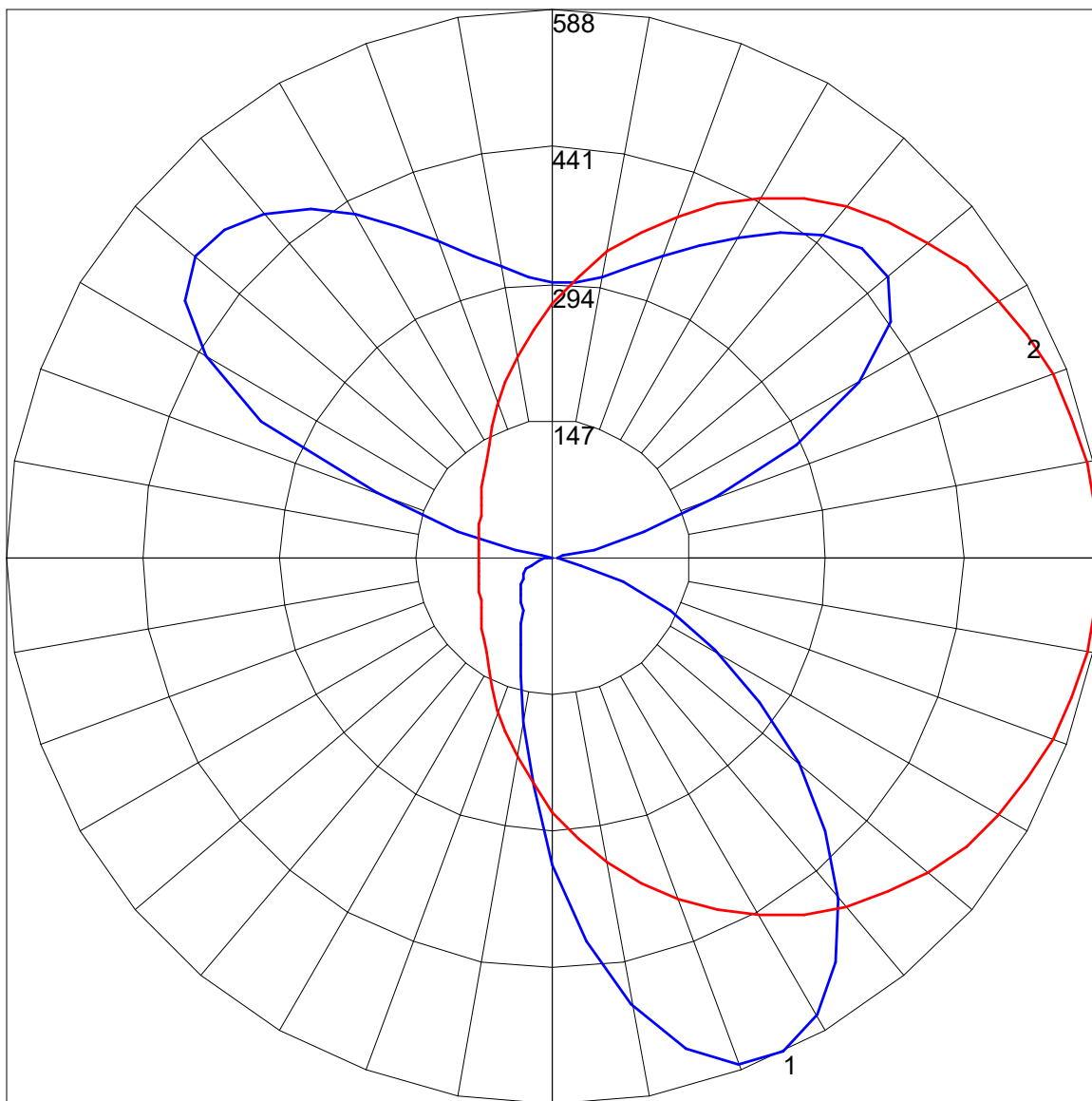
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 587.5 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.)