

IES Report

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

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-G1A1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	96	99	101	101
Total Lumens, 4' rail length (1219mm)	4801	4953	5054	5054
Lumens per foot (305mm)	1200	1238	1263	1263
Lumens per foot UP (305mm)	747	770	786	786
Lumens per foot DOWN (305mm)	454	468	478	478
Input Power (W), 4' rail length (1219mm)	50.5	50.5	50.5	50.5
Watts per foot (305mm)	12.7	12.7	12.7	12.7
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_SO_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-SO-35-G1A1
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, wide batwing lens up,
[MORE] 85° asymmetric lens down, standard 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	5054
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	50.52
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	21507	22065	17631
55	14132	14986	14355
65	7433	8820	11439
75	1796	3814	8754
85	258	305	4269

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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	764.44	764.44	764.44	764.44	764.44	764.44	764.44	764.44	764.44	764.44
5	959.32	958.16	958.16	950.04	944.24	937.28	929.16	918.72	908.28	895.52
10	1133.32	1132.16	1125.20	1117.08	1106.64	1093.88	1077.64	1057.92	1037.04	1013.84
15	1271.36	1269.04	1259.76	1249.32	1234.24	1214.52	1192.48	1168.12	1141.44	1111.28
20	1346.76	1343.28	1335.16	1323.56	1306.16	1286.44	1264.40	1237.72	1211.04	1171.60
25	1363.00	1358.36	1352.56	1339.80	1324.72	1306.16	1284.12	1263.24	1222.64	1180.88
30	1320.08	1315.44	1309.64	1299.20	1286.44	1271.36	1255.12	1224.96	1190.16	1153.04
35	1233.08	1228.44	1222.64	1215.68	1202.92	1189.00	1172.76	1143.76	1118.24	1082.28
40	1108.96	1105.48	1100.84	1093.88	1084.60	1071.84	1052.12	1031.24	1006.88	973.24
45	961.64	959.32	954.68	948.88	939.60	929.16	911.76	896.68	867.68	841.00
50	795.76	794.60	791.12	787.64	781.84	772.56	759.80	741.24	719.20	692.52
55	628.72	626.40	627.56	625.24	620.60	614.80	605.52	588.12	571.88	552.16
60	466.32	466.32	467.48	468.64	467.48	462.84	457.04	447.76	433.84	419.92
65	319.00	321.32	323.64	324.80	325.96	325.96	323.64	320.16	313.20	303.92
70	185.60	187.92	192.56	196.04	200.68	204.16	206.48	208.80	206.48	203.00
75	71.92	76.56	83.52	87.00	92.80	102.08	107.88	112.52	116.00	118.32
80	11.60	18.56	16.24	18.56	20.88	24.36	27.84	33.64	38.28	45.24
85	9.28	9.28	9.28	9.28	9.28	8.12	8.12	6.96	6.96	8.12
90	10.44	10.44	10.44	10.44	9.28	9.28	9.28	8.12	8.12	6.96
95	24.36	33.64	33.64	34.80	37.12	41.76	44.08	51.04	58.00	62.64
100	104.40	111.36	117.16	124.12	134.56	143.84	155.44	167.04	175.16	182.12
105	236.64	243.60	252.88	263.32	274.92	292.32	307.40	315.52	320.16	312.04
110	431.52	432.68	445.44	454.72	468.64	479.08	488.36	484.88	468.64	440.80
115	667.00	664.68	665.84	670.48	671.64	672.80	662.36	639.16	609.00	563.76
120	878.12	874.64	865.36	860.72	856.08	832.88	806.20	771.40	712.24	650.76
125	1026.60	1019.64	1006.88	990.64	972.08	936.12	899.00	841.00	780.68	713.40
130	1090.40	1084.60	1069.52	1047.48	1019.64	981.36	932.64	875.80	810.84	744.72
135	1091.56	1086.92	1070.68	1048.64	1018.48	981.36	931.48	878.12	817.80	757.48
140	1049.80	1045.16	1032.40	1011.52	984.84	950.04	907.12	860.72	809.68	758.64
145	989.48	984.84	974.40	957.00	933.80	905.96	872.32	834.04	792.28	750.52
150	922.20	918.72	910.60	896.68	879.28	857.24	830.56	801.56	770.24	736.60
155	856.08	853.76	847.96	837.52	824.76	809.68	789.96	769.08	745.88	723.84
160	796.92	795.76	791.12	785.32	776.04	765.60	754.00	738.92	722.68	708.76
165	747.04	745.88	743.56	740.08	735.44	729.64	722.68	714.56	706.44	697.16
170	709.92	708.76	707.60	706.44	704.12	702.96	700.64	696.00	692.52	689.04
175	687.88	687.88	687.88	686.72	686.72	686.72	685.56	685.56	684.40	684.40
180	684.40	684.40	684.40	684.40	684.40	684.40	684.40	684.40	684.40	684.40

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	764.44	764.44	764.44	764.44	764.44	764.44	764.44	764.44	764.44	764.44
5	882.76	868.84	854.92	838.68	823.60	807.36	789.96	773.72	756.32	741.24
10	988.32	962.80	936.12	904.80	872.32	839.84	807.36	773.72	740.08	708.76
15	1076.48	1035.88	994.12	951.20	908.28	860.72	812.00	764.44	715.72	671.64
20	1127.52	1079.96	1031.24	973.24	914.08	857.24	795.76	735.44	676.28	619.44
25	1140.28	1089.24	1030.08	973.24	905.96	839.84	772.56	702.96	634.52	569.56
30	1108.96	1060.24	1006.88	939.60	875.80	801.56	730.80	654.24	580.00	512.72
35	1039.36	995.28	937.28	876.96	808.52	738.92	668.16	592.76	519.68	451.24
40	936.12	888.56	838.68	783.00	718.04	654.24	584.64	517.36	451.24	388.60
45	802.72	763.28	721.52	669.32	615.96	559.12	497.64	438.48	379.32	325.96
50	665.84	631.04	592.76	553.32	509.24	459.36	402.52	349.16	313.20	267.96
55	527.80	498.80	466.32	432.68	395.56	363.08	328.28	291.16	252.88	218.08
60	400.20	368.88	345.68	327.12	307.40	284.20	256.36	226.20	199.52	171.68

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CANDELA TABULATION - (Cont.)

65	292.32	279.56	265.64	249.40	232.00	212.28	193.72	170.52	150.80	132.24
70	197.20	190.24	183.28	174.00	162.40	150.80	138.04	122.96	110.20	100.92
75	118.32	117.16	118.32	114.84	107.88	102.08	92.80	80.04	73.08	66.12
80	49.88	53.36	58.00	55.68	53.36	51.04	47.56	42.92	39.44	37.12
85	10.44	10.44	10.44	12.76	13.92	15.08	15.08	15.08	13.92	13.92
90	5.80	5.80	4.64	3.48	3.48	3.48	2.32	2.32	2.32	2.32
95	64.96	63.80	70.76	60.32	53.36	49.88	46.40	42.92	42.92	42.92
100	177.48	165.88	150.80	132.24	114.84	106.72	98.60	92.80	92.80	92.80
105	292.32	265.64	235.48	206.48	183.28	167.04	154.28	147.32	148.48	150.80
110	403.68	361.92	320.16	280.72	248.24	226.20	214.60	205.32	204.16	209.96
115	509.24	450.08	393.24	346.84	310.88	285.36	270.28	259.84	258.68	264.48
120	585.80	519.68	455.88	404.84	368.88	342.20	323.64	315.52	314.36	317.84
125	639.16	570.72	510.40	455.88	419.92	392.08	373.52	364.24	361.92	367.72
130	675.12	611.32	554.48	505.76	465.16	438.48	416.44	401.36	399.04	411.80
135	696.00	639.16	588.12	544.04	506.92	480.24	464.00	453.56	450.08	458.20
140	706.44	657.72	613.64	574.20	542.88	517.36	502.28	494.16	489.52	497.64
145	708.76	668.16	633.36	600.88	574.20	553.32	538.24	532.44	528.96	537.08
150	706.44	675.12	646.12	621.76	599.72	584.64	570.72	567.24	564.92	571.88
155	700.64	677.44	657.72	638.00	624.08	611.32	602.04	599.72	597.40	603.20
160	694.84	678.60	664.68	653.08	642.64	633.36	629.88	627.56	626.40	632.20
165	687.88	679.76	672.80	664.68	657.72	655.40	653.08	651.92	650.76	654.24
170	684.40	679.76	676.28	675.12	672.80	672.80	671.64	670.48	670.48	672.80
175	684.40	683.24	683.24	683.24	682.08	682.08	682.08	680.92	680.92	682.08
180	684.40	684.40	684.40	684.40	684.40	684.40	684.40	684.40	684.40	684.40

Vert. Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	764.44	764.44	764.44	764.44	764.44	764.44	764.44	764.44	764.44	764.44
5	725.00	708.76	693.68	678.60	664.68	651.92	639.16	627.56	617.12	607.84
10	678.60	648.44	618.28	590.44	563.76	541.72	522.00	503.44	486.04	470.96
15	627.56	583.48	545.20	509.24	476.76	445.44	416.44	394.40	377.00	361.92
20	564.92	515.04	469.80	429.20	388.60	361.92	337.56	313.20	292.32	278.40
25	506.92	452.40	403.68	358.44	324.80	293.48	269.12	250.56	233.16	219.24
30	446.60	393.24	342.20	303.92	267.96	242.44	220.40	201.84	190.24	179.80
35	388.60	336.40	291.16	252.88	223.88	200.68	183.28	169.36	158.92	151.96
40	331.76	281.88	244.76	212.28	187.92	169.36	155.44	146.16	138.04	132.24
45	278.40	235.48	204.16	178.64	157.76	143.84	134.56	126.44	121.80	117.16
50	229.68	197.20	169.36	149.64	135.72	124.12	116.00	111.36	106.72	104.40
55	186.76	161.24	141.52	125.28	113.68	106.72	100.92	97.44	93.96	91.64
60	149.64	131.08	116.00	104.40	95.12	89.32	85.84	82.36	78.88	77.72
65	116.00	103.24	92.80	83.52	77.72	73.08	69.60	67.28	66.12	64.96
70	87.00	77.72	69.60	63.80	60.32	58.00	55.68	53.36	52.20	51.04
75	59.16	52.20	47.56	45.24	44.08	40.60	38.28	35.96	33.64	31.32
80	32.48	29.00	29.00	26.68	24.36	22.04	19.72	18.56	18.56	19.72
85	12.76	10.44	10.44	10.44	9.28	8.12	8.12	8.12	8.12	9.28
90	1.16	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32
95	44.08	38.28	38.28	41.76	42.92	40.60	41.76	38.28	35.96	31.32
100	98.60	106.72	119.48	124.12	132.24	133.40	133.40	124.12	120.64	114.84
105	156.60	169.36	187.92	212.28	240.12	259.84	270.28	265.64	261.00	245.92
110	216.92	230.84	254.04	287.68	327.12	365.40	396.72	429.20	448.92	444.28
115	274.92	291.16	319.00	353.80	400.20	459.36	516.20	563.76	603.20	632.20
120	330.60	350.32	378.16	415.28	466.32	532.44	600.88	661.20	719.20	770.24
125	381.64	401.36	429.20	470.96	524.32	589.28	660.04	737.76	808.52	867.68
130	426.88	448.92	479.08	520.84	573.04	633.36	700.64	773.72	845.64	916.40
135	472.12	493.00	523.16	562.60	609.00	664.68	726.16	793.44	858.40	922.20

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CANDELA TABULATION - (Cont.)

140	511.56	532.44	560.28	595.08	639.16	687.88	740.08	798.08	853.76	909.44
145	548.68	567.24	591.60	621.76	658.88	699.48	743.56	789.96	836.36	881.60
150	581.16	598.56	617.12	642.64	670.48	704.12	738.92	774.88	813.16	846.80
155	611.32	624.08	639.16	656.56	679.76	704.12	729.64	756.32	783.00	808.52
160	638.00	643.80	656.56	669.32	683.24	700.64	719.20	736.60	752.84	771.40
165	658.88	664.68	669.32	678.60	687.88	697.16	706.44	718.04	729.64	740.08
170	675.12	678.60	682.08	684.40	687.88	693.68	698.32	704.12	708.76	714.56
175	683.24	685.56	686.72	687.88	689.04	690.20	691.36	692.52	693.68	694.84
180	684.40	684.40	684.40	684.40	684.40	684.40	684.40	684.40	684.40	684.40

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	764.44	764.44	764.44	764.44	764.44	764.44	764.44
5	598.56	591.60	585.80	581.16	578.84	576.52	576.52
10	458.20	446.60	436.16	429.20	423.40	421.08	419.92
15	348.00	335.24	325.96	317.84	312.04	308.56	308.56
20	266.80	256.36	248.24	241.28	235.48	233.16	232.00
25	209.96	203.00	196.04	191.40	186.76	184.44	184.44
30	171.68	167.04	162.40	158.92	156.60	155.44	154.28
35	146.16	142.68	140.36	138.04	135.72	135.72	135.72
40	128.76	125.28	124.12	122.96	122.96	121.80	121.80
45	114.84	112.52	112.52	112.52	112.52	112.52	112.52
50	103.24	102.08	102.08	102.08	103.24	103.24	103.24
55	90.48	90.48	91.64	92.80	93.96	93.96	93.96
60	76.56	76.56	77.72	78.88	82.36	84.68	84.68
65	63.80	63.80	63.80	64.96	66.12	71.92	73.08
70	51.04	51.04	51.04	49.88	47.56	51.04	55.68
75	31.32	31.32	31.32	33.64	33.64	30.16	35.96
80	19.72	20.88	22.04	23.20	24.36	23.20	24.36
85	9.28	10.44	10.44	11.60	11.60	11.60	12.76
90	2.32	2.32	2.32	2.32	2.32	2.32	1.16
95	29.00	29.00	29.00	30.16	30.16	32.48	30.16
100	109.04	105.56	104.40	100.92	98.60	96.28	96.28
105	237.80	234.32	229.68	229.68	226.20	201.84	247.08
110	453.56	437.32	445.44	411.80	422.24	445.44	467.48
115	657.72	676.28	685.56	694.84	726.16	796.92	806.20
120	808.52	843.32	885.08	924.52	973.24	995.28	1001.08
125	933.80	979.04	1038.20	1071.84	1093.88	1111.28	1119.40
130	979.04	1035.88	1081.12	1112.44	1139.12	1157.68	1164.64
135	981.36	1035.88	1076.48	1106.64	1134.48	1151.88	1157.68
140	960.48	1006.88	1041.68	1071.84	1096.20	1112.44	1118.24
145	924.52	961.64	992.96	1019.64	1039.36	1052.12	1056.76
150	879.28	909.44	934.96	955.84	972.08	981.36	984.84
155	832.88	854.92	873.48	888.56	900.16	907.12	909.44
160	788.80	802.72	815.48	825.92	832.88	836.36	838.68
165	749.36	757.48	765.60	770.24	773.72	777.20	778.36
170	719.20	722.68	725.00	727.32	729.64	730.80	731.96
175	696.00	697.16	697.16	698.32	699.48	699.48	700.64
180	684.40	684.40	684.40	684.40	684.40	684.40	684.40

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	285.05	N.A.	5.60
0-30	611.16	N.A.	12.10
0-40	993.34	N.A.	19.70
0-60	1638.2	N.A.	32.40
0-80	1895.05	N.A.	37.50
0-90	1910.47	N.A.	37.80
10-90	1837.83	N.A.	36.40
20-40	708.29	N.A.	14.00
20-50	1070.58	N.A.	21.20
40-70	823.88	N.A.	16.30
60-80	256.85	N.A.	5.10
70-80	77.83	N.A.	1.50
80-90	15.42	N.A.	0.30
90-110	311.35	N.A.	6.20
90-120	814.54	N.A.	16.10
90-130	1447.55	N.A.	28.60
90-150	2533.42	N.A.	50.10
90-180	3143.47	N.A.	62.20
110-180	2832.12	N.A.	56.00
0-180	5053.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	72.65
10-20	212.41
20-30	326.10
30-40	382.19
40-50	362.29
50-60	282.57
60-70	179.02
70-80	77.83
80-90	15.42
90-100	58.13
100-110	253.21
110-120	503.19
120-130	633.01
130-140	600.93
140-150	484.94
150-160	343.00
160-170	201.12
170-180	65.93

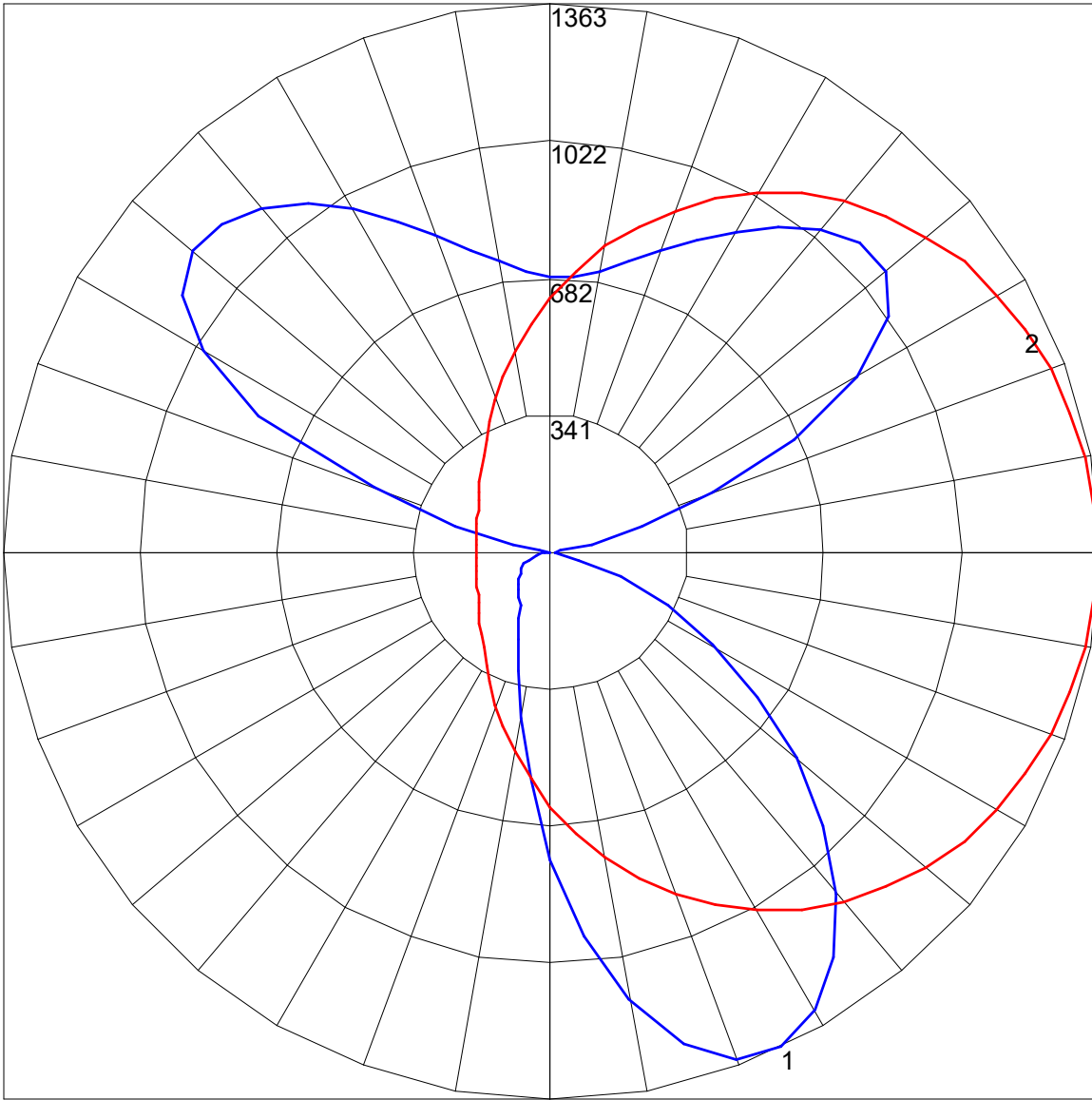
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_207_BX_SO_35_G1A1.IES

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	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 = 1363 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.)