

IES Report

ZipThree® | 707 | Symmetric, up | 85° Asymmetric , down | 90 CRI | LO

707-Z3-4-48-XX-XX-X-0-Z-LO-359-U1A1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	98	101	103	107
Total Lumens, 4' rail length (1219mm)	2900	2991	3052	3083
Lumens per foot (305mm)	725	748	763	771
Lumens per foot UP (305mm)	430	443	453	457
Lumens per foot DOWN (305mm)	295	304	311	314
Input Power (W), 4' rail length (1219mm)	29.8	29.8	29.8	29.8
Watts per foot (305mm)	7.5	7.5	7.5	7.5
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_707_Z3_LO_359_U1A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911545 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] VODE LIGHTING

[LUMCAT] 707-Z3-48-Z-LO-359-U1A1-AL

[LUMINAIRE] ZipThree LED, 48", 3500K, 90 CRI, zipper board, symmetric lens up/85° asymmetric lens down,

[MORE] 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	3052
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	29.78
Ballast Factor	1.00
CIE Type	General Diffuse
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)	0.17 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.02 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9925	9887	7604
55	8600	8740	6644
65	6757	6976	5376
75	4694	4917	3978
85	2100	2244	2328

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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	541.5	541.5	541.5	541.5	541.5	541.5	541.5	541.5	541.5	541.5
5	586.5	586.5	586.0	585.0	584.0	582.5	581.0	579.0	576.5	574.0
10	622.0	621.5	621.0	619.5	618.0	615.0	612.5	609.0	604.5	600.5
15	641.0	640.5	639.5	638.0	636.0	633.0	629.5	625.5	620.5	614.5
20	645.0	644.5	644.0	642.5	640.5	637.0	633.5	629.0	624.0	618.0
25	636.5	636.5	635.5	634.0	632.0	629.0	626.0	621.5	616.0	610.0
30	618.0	617.5	617.0	615.5	613.5	610.5	607.5	603.0	598.0	592.5
35	588.0	588.0	587.0	586.0	584.0	581.5	578.5	575.0	570.0	564.5
40	546.5	546.0	546.0	545.0	543.5	541.5	539.0	535.5	531.5	526.5
45	493.5	493.5	493.0	492.5	491.5	489.5	488.0	485.5	482.0	478.0
50	431.0	431.0	430.5	430.5	429.5	428.5	427.0	425.5	423.0	419.5
55	362.5	362.5	362.5	362.0	361.5	361.0	360.0	358.5	356.5	354.5
60	292.5	292.5	292.5	292.0	291.5	291.5	290.5	289.5	288.0	286.0
65	225.0	225.0	225.0	225.0	224.5	224.0	223.5	223.0	221.5	220.0
70	164.5	164.5	164.5	164.5	164.0	164.0	163.5	162.5	161.5	160.5
75	110.0	110.0	110.0	110.0	109.5	109.5	109.0	108.0	107.5	106.0
80	63.5	63.5	63.5	63.5	63.5	63.0	62.5	62.0	61.5	60.5
85	27.0	27.0	27.0	27.0	26.5	26.0	26.0	25.5	25.0	24.5
90	10.0	10.0	9.5	9.5	9.0	8.5	8.0	7.0	6.5	6.0
95	30.0	30.0	30.0	29.5	29.0	28.5	28.0	27.5	26.5	26.0
100	58.5	58.5	58.5	58.0	58.0	57.5	57.5	57.0	56.5	56.0
105	95.0	95.0	95.0	95.0	95.0	95.0	95.0	94.5	94.5	94.5
110	139.0	139.0	139.5	139.5	139.5	139.5	140.0	140.0	140.5	140.5
115	190.0	190.5	190.5	190.5	191.0	191.5	192.0	192.5	193.0	193.5
120	247.5	247.5	248.0	248.0	248.5	249.0	250.0	250.5	251.5	252.5
125	309.0	309.0	309.0	309.5	310.0	311.0	311.5	312.5	314.0	315.0
130	371.0	371.0	371.5	372.0	372.5	373.0	374.0	375.0	376.5	377.5
135	430.5	431.0	431.0	431.5	432.5	433.0	434.0	435.0	436.0	437.5
140	486.0	486.0	486.0	486.5	487.0	488.0	488.5	489.5	490.5	491.5
145	534.0	534.0	534.0	534.5	535.0	535.5	536.0	537.0	537.5	538.0
150	575.0	575.0	575.0	575.0	575.5	576.0	576.5	577.0	577.5	578.0
155	608.5	608.5	608.5	608.5	609.0	609.0	609.5	609.5	610.0	610.0
160	635.0	635.0	635.0	635.0	635.5	635.5	635.5	635.5	636.0	636.0
165	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.5	655.5	655.5
170	668.5	668.5	669.0	668.5	668.5	668.5	668.5	669.0	669.0	669.0
175	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5
180	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5

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	541.5	541.5	541.5	541.5	541.5	541.5	541.5	541.5	541.5	541.5
5	571.0	568.0	564.5	561.0	557.0	553.0	549.0	544.5	540.0	535.0
10	595.0	589.5	583.0	576.0	568.5	560.5	552.0	543.0	533.0	522.5
15	608.0	600.5	592.0	583.0	572.5	561.5	549.0	536.0	521.0	505.5
20	610.0	602.0	592.5	582.0	569.5	556.0	540.0	523.0	504.0	483.5
25	602.5	594.0	584.0	572.5	558.5	542.5	525.0	505.0	482.0	456.5
30	585.5	576.5	566.5	554.5	540.0	523.0	503.5	481.5	454.5	425.0
35	558.0	549.5	539.5	527.5	513.5	496.0	475.5	451.0	422.0	389.0
40	520.0	512.0	503.5	492.0	478.0	460.5	439.5	414.5	383.5	348.5
45	472.5	465.5	457.0	446.5	433.5	416.5	396.0	371.0	340.0	304.0
50	415.0	409.5	402.0	392.0	380.5	365.0	345.0	321.5	291.0	257.5
55	350.5	346.0	340.0	331.5	321.5	307.5	290.0	268.0	241.5	210.5
60	283.5	279.5	274.5	268.0	259.0	247.5	232.5	214.0	191.0	164.5

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CANDELA TABULATION - (Cont.)

65	217.5	214.5	210.5	205.0	198.0	189.0	177.0	162.5	144.5	123.0
70	158.5	156.0	153.0	148.5	143.0	136.0	127.0	116.0	102.5	87.0
75	104.5	103.0	100.5	97.5	93.5	89.0	82.5	75.0	66.0	56.5
80	59.5	58.0	56.5	54.5	52.0	49.5	45.5	41.5	36.5	31.0
85	23.5	23.0	22.0	21.0	20.0	18.5	17.5	15.5	13.5	11.5
90	5.0	4.5	3.5	3.0	2.5	2.0	1.5	1.5	1.0	1.5
95	25.0	24.0	23.5	22.5	22.0	21.5	21.0	20.5	20.0	20.5
100	55.5	54.5	54.0	53.5	53.0	52.5	52.5	52.0	51.5	52.0
105	94.5	94.0	94.0	93.5	93.5	93.0	93.0	93.0	92.5	93.0
110	140.5	141.0	141.0	141.5	141.5	141.5	141.5	141.5	141.5	141.5
115	194.0	194.5	195.0	195.5	196.0	196.5	197.0	197.0	197.0	197.0
120	253.0	254.0	255.0	256.0	257.0	257.5	258.0	258.0	258.0	258.0
125	316.0	317.0	318.5	319.5	320.5	321.0	321.5	322.0	322.0	322.0
130	379.0	380.0	381.5	382.5	383.5	384.0	384.5	385.0	385.0	385.0
135	438.5	439.5	440.5	441.5	442.5	443.0	443.5	444.0	444.0	444.0
140	492.5	493.5	494.0	495.0	495.5	496.0	496.5	497.0	497.0	497.0
145	539.0	539.5	540.5	540.5	541.5	541.5	542.0	542.0	542.5	542.0
150	578.5	579.0	579.0	579.5	580.0	580.0	580.0	580.5	580.5	580.5
155	610.5	610.5	611.0	611.0	611.5	611.5	611.5	611.5	611.5	611.5
160	636.5	636.5	636.5	636.5	636.5	636.5	637.0	637.0	637.0	637.0
165	655.5	655.5	655.5	655.5	656.0	656.0	656.0	656.0	656.0	656.0
170	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0
175	676.5	676.5	676.5	676.5	676.5	676.5	677.0	676.5	676.5	676.5
180	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5

Vert. Angles **Horizontal Angles**

	100	105	110	115	120	125	130	135	140	145
0	541.5	541.5	541.5	541.5	541.5	541.5	541.5	541.5	541.5	541.5
5	530.5	526.0	521.0	516.5	512.5	508.0	504.0	500.0	496.5	493.0
10	512.5	502.0	491.0	480.5	470.0	460.0	450.5	440.5	432.0	424.0
15	489.5	473.0	455.5	438.0	421.5	405.0	389.5	374.0	360.5	348.0
20	461.0	438.5	415.0	391.5	367.5	345.5	325.0	305.5	289.0	273.5
25	429.5	400.5	370.5	342.0	312.0	286.5	263.0	241.5	223.5	208.0
30	393.5	359.0	324.5	291.5	259.0	231.5	207.5	186.5	169.0	154.5
35	353.5	315.5	277.5	242.5	209.5	183.0	160.5	141.5	126.0	114.5
40	310.5	270.5	231.5	197.5	166.0	142.0	122.5	106.5	94.0	85.0
45	266.0	226.0	188.5	157.0	129.5	109.0	93.0	80.5	71.5	64.5
50	221.0	184.0	151.0	123.5	100.5	84.0	71.5	62.0	55.5	50.5
55	171.5	145.0	117.5	95.0	77.0	64.5	55.0	48.0	43.5	40.5
60	137.5	111.5	89.5	72.5	58.5	49.0	42.5	38.0	34.5	32.0
65	102.5	82.5	66.0	53.5	44.5	37.5	32.5	29.0	26.5	25.0
70	72.5	59.0	47.0	39.5	32.0	27.5	24.0	21.5	20.0	18.5
75	47.0	39.0	31.5	26.0	21.5	18.5	16.5	15.0	13.5	12.5
80	26.0	21.5	17.5	14.5	12.5	11.0	9.5	8.5	8.0	7.5
85	10.0	8.5	7.0	6.0	5.0	4.5	4.0	4.0	3.5	3.5
90	1.5	2.0	2.5	3.0	3.5	4.5	5.0	6.0	6.5	7.0
95	21.0	21.5	22.0	22.5	23.5	24.0	25.0	26.0	26.5	27.5
100	52.5	52.5	53.0	53.5	54.0	54.5	55.5	56.0	56.5	57.0
105	93.0	93.0	93.5	93.5	94.0	94.0	94.5	94.5	94.5	94.5
110	141.5	141.5	141.5	141.5	141.0	141.0	140.5	140.5	140.5	140.0
115	197.0	196.5	196.0	195.5	195.0	194.5	194.0	193.5	193.0	192.5
120	258.0	257.5	257.0	256.0	255.0	254.0	253.0	252.5	251.5	250.5
125	321.5	321.0	320.5	319.5	318.5	317.0	316.0	315.0	314.0	312.5
130	384.5	384.0	383.5	382.5	381.5	380.0	379.0	377.5	376.5	375.0
135	443.5	443.0	442.5	441.5	440.5	439.5	438.5	437.5	436.0	435.0

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CANDELA TABULATION - (Cont.)

140	496.5	496.0	495.5	495.0	494.0	493.5	492.5	491.5	490.5	489.5
145	542.0	541.5	541.5	540.5	540.5	539.5	539.0	538.0	537.5	537.0
150	580.0	580.0	580.0	579.5	579.0	579.0	578.5	578.0	577.5	577.0
155	611.5	611.5	611.5	611.0	611.0	610.5	610.5	610.0	610.0	609.5
160	637.0	636.5	636.5	636.5	636.5	636.5	636.5	636.0	636.0	635.5
165	656.0	656.0	656.0	655.5	655.5	655.5	655.5	655.5	655.5	655.5
170	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0
175	677.0	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5
180	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5

**Vert.
Angles**

Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	541.5	541.5	541.5	541.5	541.5	541.5	541.5
5	490.0	488.0	485.5	484.0	483.0	482.0	482.0
10	417.0	411.0	406.0	402.0	399.5	397.5	397.0
15	337.5	328.0	320.5	314.5	310.5	308.0	307.0
20	260.5	250.0	241.0	234.5	229.5	226.5	226.0
25	194.5	184.0	176.0	169.5	165.0	162.5	161.5
30	143.0	134.0	127.0	121.5	118.0	116.0	115.0
35	105.0	97.5	92.0	88.0	85.0	83.5	83.0
40	77.5	72.5	68.5	65.5	64.0	62.5	62.5
45	59.5	56.0	53.0	51.0	50.0	49.0	49.0
50	47.0	44.5	42.5	41.5	41.0	40.5	40.0
55	38.0	36.0	35.0	34.0	33.5	33.0	33.0
60	30.0	29.0	28.0	27.5	27.0	26.5	26.5
65	23.5	22.5	22.0	21.5	21.0	21.0	21.0
70	17.5	17.0	16.5	16.0	16.0	15.5	15.5
75	12.0	11.5	11.0	11.0	11.0	10.5	10.5
80	7.0	7.0	6.5	6.5	6.5	6.5	6.5
85	3.0	3.0	3.0	3.0	3.0	3.0	3.0
90	8.0	8.5	9.0	9.5	9.5	10.0	10.0
95	28.0	28.5	29.0	29.5	30.0	30.0	30.0
100	57.5	57.5	58.0	58.0	58.5	58.5	58.5
105	95.0	95.0	95.0	95.0	95.0	95.0	95.0
110	140.0	139.5	139.5	139.5	139.5	139.0	139.0
115	192.0	191.5	191.0	190.5	190.5	190.5	190.0
120	250.0	249.0	248.5	248.0	248.0	247.5	247.5
125	311.5	311.0	310.0	309.5	309.0	309.0	309.0
130	374.0	373.0	372.5	372.0	371.5	371.0	371.0
135	434.0	433.0	432.5	431.5	431.0	431.0	430.5
140	488.5	488.0	487.0	486.5	486.0	486.0	486.0
145	536.0	535.5	535.0	534.5	534.0	534.0	534.0
150	576.5	576.0	575.5	575.0	575.0	575.0	575.0
155	609.5	609.0	609.0	608.5	608.5	608.5	608.5
160	635.5	635.5	635.5	635.0	635.0	635.0	635.0
165	655.0	655.0	655.0	655.0	655.0	655.0	655.0
170	668.5	668.5	668.5	668.5	669.0	668.5	668.5
175	676.5	676.5	676.5	676.5	676.5	676.5	676.5
180	678.5	678.5	678.5	678.5	678.5	678.5	678.5

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	190.30	N.A.	6.20
0-30	389.95	N.A.	12.80
0-40	618.41	N.A.	20.30
0-60	1029.33	N.A.	33.70
0-80	1223.27	N.A.	40.10
0-90	1242.06	N.A.	40.70
10-90	1191.32	N.A.	39.00
20-40	428.11	N.A.	14.00
20-50	652.31	N.A.	21.40
40-70	538.63	N.A.	17.60
60-80	193.93	N.A.	6.40
70-80	66.22	N.A.	2.20
80-90	18.79	N.A.	0.60
90-110	132.01	N.A.	4.30
90-120	325.05	N.A.	10.60
90-130	606.97	N.A.	19.90
90-150	1279.73	N.A.	41.90
90-180	1810.06	N.A.	59.30
110-180	1678.04	N.A.	55.00
0-180	3052.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	50.74
10-20	139.57
20-30	199.65
30-40	228.46
40-50	224.19
50-60	186.73
60-70	127.71
70-80	66.22
80-90	18.79
90-100	30.60
100-110	101.41
110-120	193.04
120-130	281.92
130-140	336.67
140-150	336.09
150-160	281.01
160-170	184.99
170-180	64.33

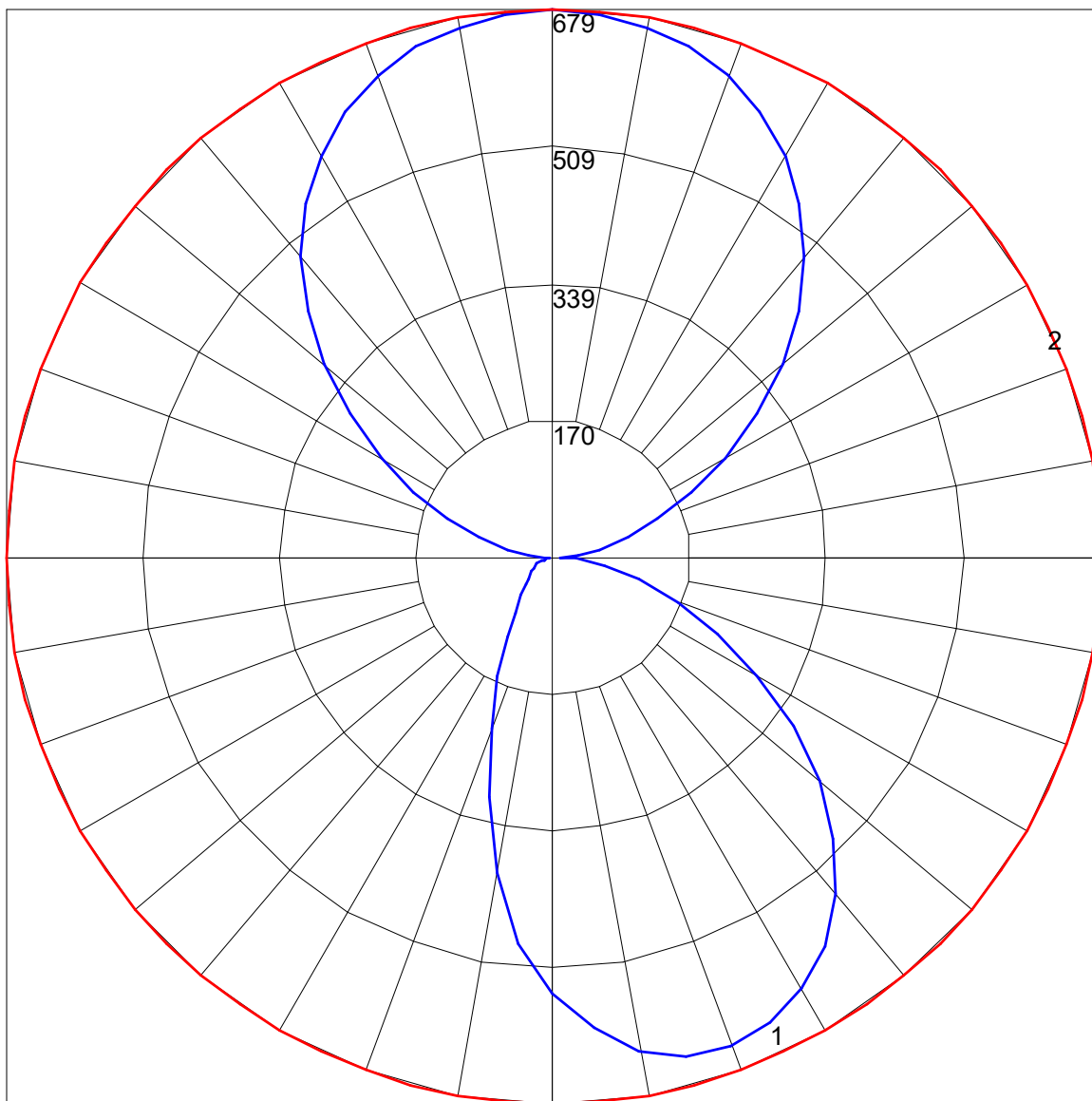
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	42	41	41	35
2	87	80	74	69	79	73	68	64	60	57	54	49	46	44	37	36	34	29
3	80	71	64	58	73	65	59	54	53	49	45	43	40	37	33	31	29	25
4	73	63	55	49	66	57	51	46	48	43	39	38	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	24	22	19
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	28	25	22	22	20	18	15
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	13
9	49	37	30	25	45	35	28	24	29	24	20	24	20	17	19	16	14	12
10	46	34	27	23	42	32	25	21	27	22	18	22	18	16	18	15	13	11

POLAR GRAPH



Maximum Candela = 678.5 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)