

IES Report

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

707-Z3-4-48-XX-XX-X-0-Z-LO-359-U2A1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	98	101	103	107
Total Lumens, 4' rail length (1219mm)	2914	3006	3067	3098
Lumens per foot (305mm)	728	751	767	774
Lumens per foot UP (305mm)	433	447	456	461
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_U2A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911545 / L121911542R01 (SOURCE REPORTS 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-U2A1-AL

[LUMINAIRE] ZipThree LED, 48", 3500K, 90 CRI, zipper board, symmetric lens with edgeglow 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	3067
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
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	29.5	29.5	29.0	29.0	28.5	28.0	27.5	27.0	26.5	25.5
100	58.0	58.0	58.0	58.0	57.5	57.5	57.0	56.5	56.5	56.0
105	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
110	139.5	139.5	140.0	140.0	140.0	140.5	140.5	141.0	141.5	141.5
115	191.5	191.5	192.0	192.0	192.5	193.0	193.5	194.0	194.5	195.5
120	250.0	250.0	250.0	250.5	251.0	251.5	252.5	253.5	254.5	255.0
125	312.0	312.0	312.5	313.0	313.5	314.5	315.0	316.0	317.5	318.5
130	375.0	375.0	375.5	376.0	376.5	377.5	378.5	379.5	380.5	382.0
135	435.5	435.5	436.0	436.5	437.0	438.0	438.5	439.5	440.5	442.0
140	490.5	490.5	490.5	491.5	492.0	492.5	493.0	494.0	495.0	496.0
145	538.5	539.0	539.0	539.5	539.5	540.0	541.0	541.5	542.0	543.0
150	579.5	579.5	579.5	579.5	580.0	580.5	581.0	581.0	581.5	582.0
155	612.5	612.5	612.5	612.5	613.0	613.0	613.5	614.0	614.0	614.5
160	639.0	639.0	639.0	639.0	639.5	639.5	639.5	639.5	639.5	640.0
165	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0
170	672.5	672.5	672.5	672.5	672.5	672.5	672.5	672.5	672.5	673.0
175	680.0	680.0	680.5	680.0	680.0	680.0	680.5	680.5	680.0	680.5
180	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0

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	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	21.0	20.5	20.5	20.0	20.5
100	55.5	55.0	54.5	54.0	53.5	53.0	52.5	52.0	52.0	52.0
105	95.0	94.5	94.5	94.5	94.0	94.0	94.0	93.5	93.5	93.5
110	142.0	142.0	142.5	142.5	143.0	143.0	143.0	143.0	143.0	143.0
115	196.0	196.5	197.5	198.0	198.5	198.5	199.0	199.0	199.0	199.0
120	256.0	257.0	258.0	259.0	259.5	260.5	260.5	261.0	261.0	261.0
125	319.5	321.0	322.0	323.0	324.0	325.0	325.5	325.5	325.5	325.5
130	383.0	384.0	385.5	386.5	387.5	388.5	388.5	389.0	389.0	389.0
135	443.0	444.0	445.0	446.0	447.0	447.5	448.0	448.5	448.0	448.5
140	497.0	497.5	498.5	499.5	500.0	500.5	501.0	501.0	501.0	501.0
145	543.5	544.0	545.0	545.0	545.5	546.0	546.0	546.5	546.5	546.5
150	582.5	583.0	583.5	584.0	584.0	584.5	584.5	584.5	584.5	584.5
155	614.5	615.0	615.0	615.0	615.5	615.5	615.5	615.5	615.5	615.5
160	640.0	640.5	640.5	640.5	640.5	640.5	640.5	640.5	641.0	640.5
165	659.5	659.5	659.5	659.5	659.5	659.5	659.5	660.0	659.5	660.0
170	673.0	672.5	673.0	673.0	673.0	673.0	673.0	673.0	672.5	673.0
175	680.5	680.5	680.5	680.5	680.5	680.5	680.5	680.5	680.5	680.5
180	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0

Vert. Horizontal Angles
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	20.5	21.0	22.0	22.5	23.5	24.0	25.0	25.5	26.5	27.0
100	52.5	53.0	53.5	54.0	54.5	55.0	55.5	56.0	56.5	56.5
105	94.0	94.0	94.0	94.5	94.5	94.5	95.0	95.0	95.0	95.0
110	143.0	143.0	143.0	142.5	142.5	142.0	142.0	141.5	141.5	141.0
115	199.0	198.5	198.5	198.0	197.5	196.5	196.0	195.5	194.5	194.0
120	260.5	260.5	259.5	259.0	258.0	257.0	256.0	255.0	254.5	253.5
125	325.5	325.0	324.0	323.0	322.0	321.0	319.5	318.5	317.5	316.0
130	388.5	388.5	387.5	386.5	385.5	384.0	383.0	382.0	380.5	379.5
135	448.0	447.5	447.0	446.0	445.0	444.0	443.0	442.0	440.5	439.5

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CANDELA TABULATION - (Cont.)

140	501.0	500.5	500.0	499.5	498.5	497.5	497.0	496.0	495.0	494.0
145	546.0	546.0	545.5	545.0	545.0	544.0	543.5	543.0	542.0	541.5
150	584.5	584.5	584.0	584.0	583.5	583.0	582.5	582.0	581.5	581.0
155	615.5	615.5	615.5	615.0	615.0	615.0	614.5	614.5	614.0	614.0
160	640.5	640.5	640.5	640.5	640.5	640.5	640.0	640.0	639.5	639.5
165	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.0	659.0	659.0
170	673.0	673.0	673.0	673.0	673.0	672.5	673.0	673.0	672.5	672.5
175	680.5	680.5	680.5	680.5	680.5	680.5	680.5	680.5	680.0	680.5
180	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0	682.0

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	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	27.5	28.0	28.5	29.0	29.0	29.5	29.5
100	57.0	57.5	57.5	58.0	58.0	58.0	58.0
105	95.0	95.0	95.0	95.0	95.0	95.0	95.0
110	140.5	140.5	140.0	140.0	140.0	139.5	139.5
115	193.5	193.0	192.5	192.0	192.0	191.5	191.5
120	252.5	251.5	251.0	250.5	250.0	250.0	250.0
125	315.0	314.5	313.5	313.0	312.5	312.0	312.0
130	378.5	377.5	376.5	376.0	375.5	375.0	375.0
135	438.5	438.0	437.0	436.5	436.0	435.5	435.5
140	493.0	492.5	492.0	491.5	490.5	490.5	490.5
145	541.0	540.0	539.5	539.5	539.0	539.0	538.5
150	581.0	580.5	580.0	579.5	579.5	579.5	579.5
155	613.5	613.0	613.0	612.5	612.5	612.5	612.5
160	639.5	639.5	639.5	639.0	639.0	639.0	639.0
165	659.0	659.0	659.0	659.0	659.0	659.0	659.0
170	672.5	672.5	672.5	672.5	672.5	672.5	672.5
175	680.5	680.0	680.0	680.0	680.5	680.0	680.0
180	682.0	682.0	682.0	682.0	682.0	682.0	682.0

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.	12.70
0-40	618.41	N.A.	20.20
0-60	1029.33	N.A.	33.60
0-80	1223.27	N.A.	39.90
0-90	1242.06	N.A.	40.50
10-90	1191.32	N.A.	38.80
20-40	428.11	N.A.	14.00
20-50	652.31	N.A.	21.30
40-70	538.63	N.A.	17.60
60-80	193.93	N.A.	6.30
70-80	66.22	N.A.	2.20
80-90	18.79	N.A.	0.60
90-110	132.33	N.A.	4.30
90-120	327.19	N.A.	10.70
90-130	612.22	N.A.	20.00
90-150	1291.24	N.A.	42.10
90-180	1824.92	N.A.	59.50
110-180	1692.59	N.A.	55.20
0-180	3066.98	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	30.43
100-110	101.90
110-120	194.86
120-130	285.03
130-140	340.11
140-150	338.90
150-160	282.91
160-170	186.08
170-180	64.69

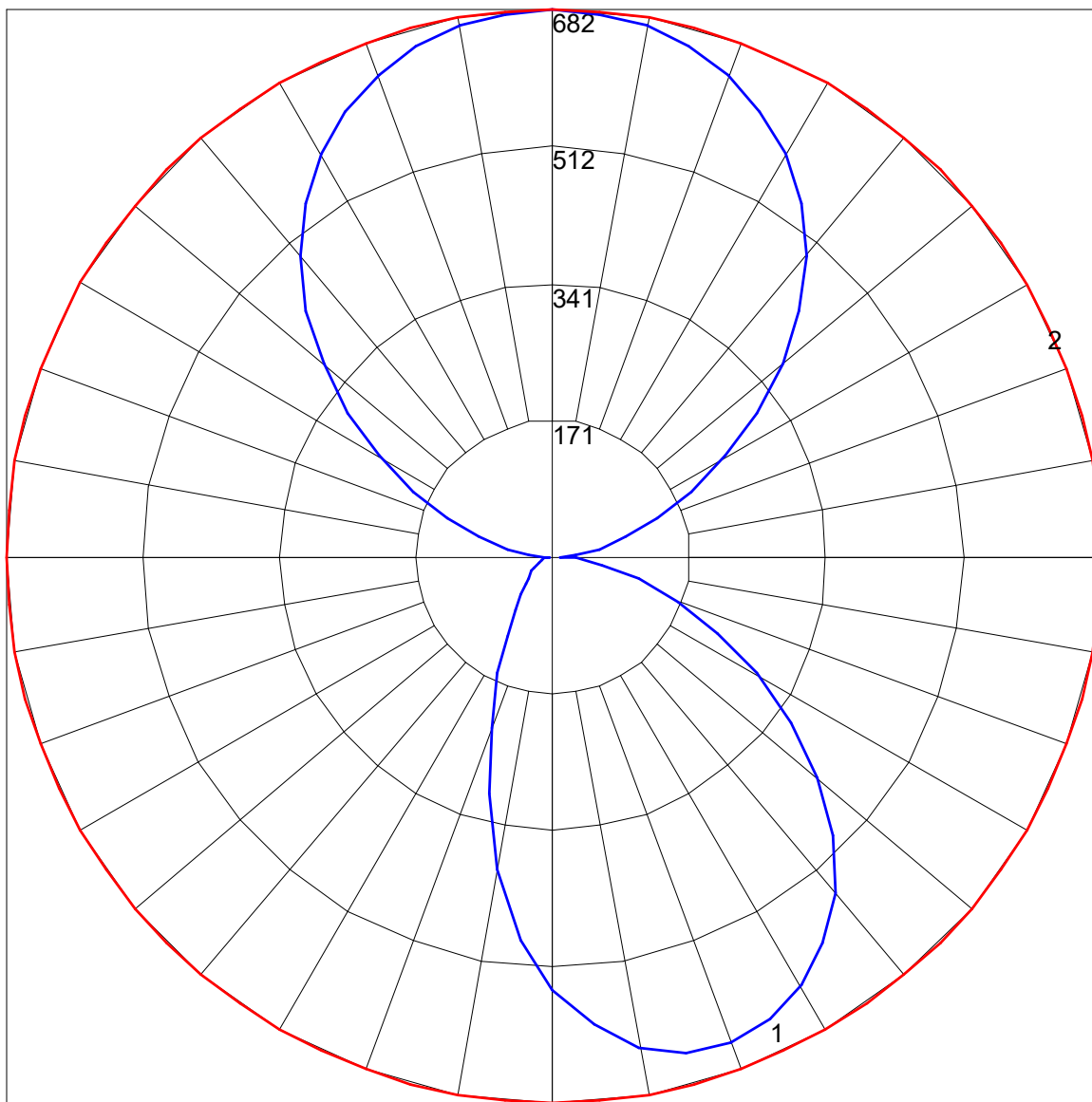
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	47	47	47	40
1	96	92	88	85	87	84	80	78	69	66	64	55	53	52	42	41	40	34
2	87	80	74	69	79	73	68	64	60	57	54	48	46	44	37	36	34	29
3	80	71	64	58	72	65	59	54	53	49	45	43	40	37	33	31	29	25
4	73	63	55	49	66	57	51	46	47	43	39	38	35	32	30	27	25	22
5	67	56	48	42	61	51	44	39	43	37	33	34	31	28	27	24	22	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	22	20	17
7	57	45	37	32	52	42	35	30	35	29	26	28	24	22	22	20	18	15
8	53	41	33	28	48	38	31	26	32	26	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 = 682 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.)