

IES Report

ZipOne® | 707 | 100° Asymmetric | 90 CRI | LO

707-Z1-4-48-X-XX-X-0-Z-LO-359-A2-X-AL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	81	83	85	87
Total Lumens, 4' rail length (1219mm)	1302	1344	1371	1398
Lumens per foot (305mm)	326	336	343	350
Input Power (W), 4' rail length (1219mm)	16.3	16.3	16.3	16.3
Watts per foot (305mm)	4.1	4.1	4.1	4.1
CRI	96	96	96	96

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\_Z1\_LO\_359\_A2.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L101707601 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
[ISSUEDATE] 11/1/2017  
[MANUFAC] Vode Lighting  
[LUMCAT] 707-Z1-48-Z-LO-359-A2  
[LUMINAIRE] ZipOne LED, 48", 3500K, 90 CRI, zipper board,  
[MORE] 100° asymmetric lens, low output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1344
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	16.25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.36
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.06 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	28691	27958	24360
55	27126	25988	21316
65	24295	22803	17209
75	20879	18965	12702
85	18084	14984	6975

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>
<b>0</b>	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5
<b>5</b>	623.0	622.5	622.5	622.5	622.0	621.5	621.0	620.0	619.5	618.5
<b>10</b>	627.5	627.0	627.0	626.5	626.0	625.5	624.5	623.5	622.5	621.0
<b>15</b>	622.0	622.0	621.5	621.5	620.5	620.0	619.5	618.0	617.0	615.5
<b>20</b>	609.0	609.0	609.0	608.5	608.0	607.5	606.5	605.5	604.0	602.5
<b>25</b>	589.0	589.0	589.0	588.5	588.5	587.5	586.5	585.5	584.5	583.0
<b>30</b>	563.0	563.0	563.0	562.5	562.0	561.5	560.5	559.5	558.5	557.0
<b>35</b>	531.5	531.0	531.0	530.5	529.5	529.0	528.0	526.5	525.5	524.0
<b>40</b>	494.0	494.0	493.5	493.0	492.0	491.0	489.5	488.0	486.5	485.0
<b>45</b>	450.5	450.0	449.5	449.0	447.5	446.0	444.5	443.0	441.0	439.0
<b>50</b>	401.0	400.5	400.0	399.0	397.5	396.0	394.0	392.0	390.0	387.5
<b>55</b>	345.5	345.0	344.5	343.5	342.0	340.5	338.5	336.0	333.5	331.0
<b>60</b>	287.0	287.0	286.5	285.5	284.0	282.0	280.0	277.5	275.0	272.0
<b>65</b>	228.0	228.0	227.5	226.5	225.0	223.0	221.5	219.0	216.5	214.0
<b>70</b>	171.5	171.5	171.0	170.0	169.0	167.5	165.5	164.0	162.0	159.5
<b>75</b>	120.0	120.0	119.5	118.5	117.5	116.5	115.0	113.0	111.0	109.0
<b>80</b>	73.5	73.0	73.0	72.0	71.5	70.0	69.0	68.0	66.5	64.5
<b>85</b>	35.0	34.5	34.5	34.0	33.5	33.0	32.0	31.0	30.0	29.0
<b>90</b>	9.5	9.0	9.0	9.0	8.5	8.5	8.0	7.5	7.0	6.5
<b>95</b>	8.0	8.0	8.0	7.5	7.5	7.0	7.0	6.5	6.0	6.0
<b>100</b>	7.5	7.5	7.5	7.5	7.0	7.0	6.5	6.5	6.0	5.5
<b>105</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>110</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>115</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>120</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>125</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>130</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>135</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>140</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>145</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>150</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>155</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>160</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>165</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>170</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>175</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>180</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. Horizontal Angles  
 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>
<b>0</b>	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5
<b>5</b>	617.5	616.5	615.0	614.0	612.5	611.0	609.0	607.5	606.0	604.0
<b>10</b>	619.5	617.5	615.5	613.5	611.0	608.0	605.0	601.5	598.0	594.5
<b>15</b>	613.5	611.0	609.0	606.0	602.5	599.0	595.0	590.0	584.5	578.5
<b>20</b>	600.5	598.5	596.0	593.0	589.0	584.5	579.0	573.0	566.0	558.0
<b>25</b>	581.0	579.0	576.0	573.0	568.5	563.5	557.5	550.0	541.0	530.5
<b>30</b>	555.0	553.0	550.0	546.5	542.5	537.0	530.0	521.0	510.5	497.5
<b>35</b>	522.0	520.0	517.0	513.5	509.5	503.5	496.0	486.5	474.0	458.0
<b>40</b>	483.0	480.5	478.0	474.5	470.0	463.5	455.5	445.0	431.5	413.5
<b>45</b>	436.5	434.0	431.0	427.5	423.0	417.0	408.5	397.5	382.5	362.0
<b>50</b>	384.5	382.0	378.5	375.0	370.5	364.0	355.5	344.0	328.5	307.5
<b>55</b>	328.0	325.0	321.5	317.5	312.5	306.5	298.0	286.5	271.5	251.0
<b>60</b>	269.0	265.5	262.0	258.0	253.5	247.5	239.5	229.0	215.0	195.5

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**CANDELA TABULATION - (Cont.)**

65	211.0	207.5	204.0	200.0	195.0	189.5	182.5	173.5	161.5	146.0
70	156.5	153.5	150.0	146.5	142.0	137.0	131.0	123.5	114.0	102.5
75	106.5	104.0	101.5	98.0	94.5	90.5	86.0	80.0	73.0	65.0
80	63.0	61.0	58.5	56.5	53.5	50.5	47.5	43.5	39.5	35.0
85	27.5	26.5	25.0	23.5	21.5	19.5	17.5	15.5	13.5	12.0
90	6.0	5.5	5.0	4.0	3.5	2.5	1.5	1.0	0.0	0.0
95	5.5	5.0	4.5	4.0	3.0	0.0	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**Vert. Horizontal Angles**

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5
5	602.0	600.0	598.0	596.5	594.5	592.5	591.0	589.0	587.5	586.0
10	590.5	586.0	581.5	577.0	572.5	568.0	563.0	558.5	554.5	550.5
15	572.0	565.0	557.5	549.5	541.0	532.5	524.5	516.0	508.0	500.5
20	548.5	538.0	527.0	515.0	501.5	488.5	475.5	461.5	449.0	436.0
25	518.5	504.5	488.5	472.0	453.0	434.0	415.0	396.0	377.0	360.0
30	482.5	464.0	444.0	422.0	397.5	372.0	347.5	323.0	301.0	280.5
35	439.5	417.0	392.5	364.0	335.5	306.5	277.5	250.5	227.5	207.0
40	391.5	365.5	336.5	305.0	272.0	241.0	211.5	186.0	165.0	147.0
45	338.5	309.0	277.5	245.0	211.5	182.0	156.0	134.5	117.5	103.5
50	282.5	252.5	221.0	189.0	159.0	134.0	112.5	96.0	83.5	73.5
55	226.5	198.0	166.0	142.5	117.5	97.5	82.0	69.5	60.5	54.0
60	169.5	150.5	125.0	103.5	85.0	70.5	59.0	50.5	44.0	39.5
65	128.0	109.0	90.5	74.5	61.0	50.5	42.5	36.5	32.5	29.0
70	89.0	75.5	62.5	51.5	42.0	35.0	30.0	25.5	22.5	20.5
75	56.5	48.0	41.0	33.0	27.0	22.5	19.5	16.5	15.0	13.5
80	30.5	25.5	21.0	17.5	14.5	12.5	10.5	9.0	8.0	7.5
85	10.5	9.0	7.5	6.0	5.0	4.5	4.0	3.5	3.0	3.0
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA TABULATION - (Cont.)**

140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**Vert. Horizontal Angles**

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	608.5	608.5	608.5	608.5	608.5	608.5	608.5
5	585.0	583.5	583.0	582.0	581.5	581.0	581.0
10	547.0	544.0	541.0	539.0	537.5	536.5	536.0
15	493.5	487.5	482.0	477.5	474.5	472.5	472.0
20	425.0	415.0	406.5	399.5	394.5	391.5	390.5
25	344.5	331.0	320.0	311.0	304.5	300.5	299.5
30	262.5	247.5	235.5	226.5	219.5	215.5	214.5
35	189.5	176.0	165.0	157.0	151.5	148.5	147.5
40	133.0	122.0	113.5	107.5	103.5	101.0	100.0
45	93.0	85.0	79.5	75.0	72.5	71.0	70.5
50	66.0	61.0	57.0	54.0	52.5	51.5	51.0
55	48.5	45.0	42.5	40.5	39.5	38.5	38.5
60	36.0	33.5	31.5	30.5	29.5	29.0	29.0
65	26.5	25.0	23.5	22.5	22.0	21.5	21.5
70	18.5	17.5	16.5	16.0	15.5	15.5	15.0
75	12.5	11.5	11.0	10.5	10.0	10.0	10.0
80	7.0	6.5	6.0	6.0	5.5	5.5	5.5
85	2.5	2.5	2.5	2.5	2.0	2.0	2.0
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	216.25	N.A.	16.10
0-30	442.06	N.A.	32.90
0-40	690.77	N.A.	51.40
0-60	1118.09	N.A.	83.20
0-80	1321.03	N.A.	98.30
0-90	1340.99	N.A.	99.80
10-90	1283.79	N.A.	95.50
20-40	474.52	N.A.	35.30
20-50	709.33	N.A.	52.80
40-70	559.94	N.A.	41.70
60-80	202.94	N.A.	15.10
70-80	70.31	N.A.	5.20
80-90	19.96	N.A.	1.50
90-110	3.14	N.A.	0.20
90-120	3.14	N.A.	0.20
90-130	3.14	N.A.	0.20
90-150	3.14	N.A.	0.20
90-180	3.14	N.A.	0.20
110-180	0.00	N.A.	0.00
0-180	1344.12	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	57.20
10-20	159.06
20-30	225.80
30-40	248.72
40-50	234.82
50-60	192.50
60-70	132.62
70-80	70.31
80-90	19.96
90-100	2.66
100-110	0.48
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

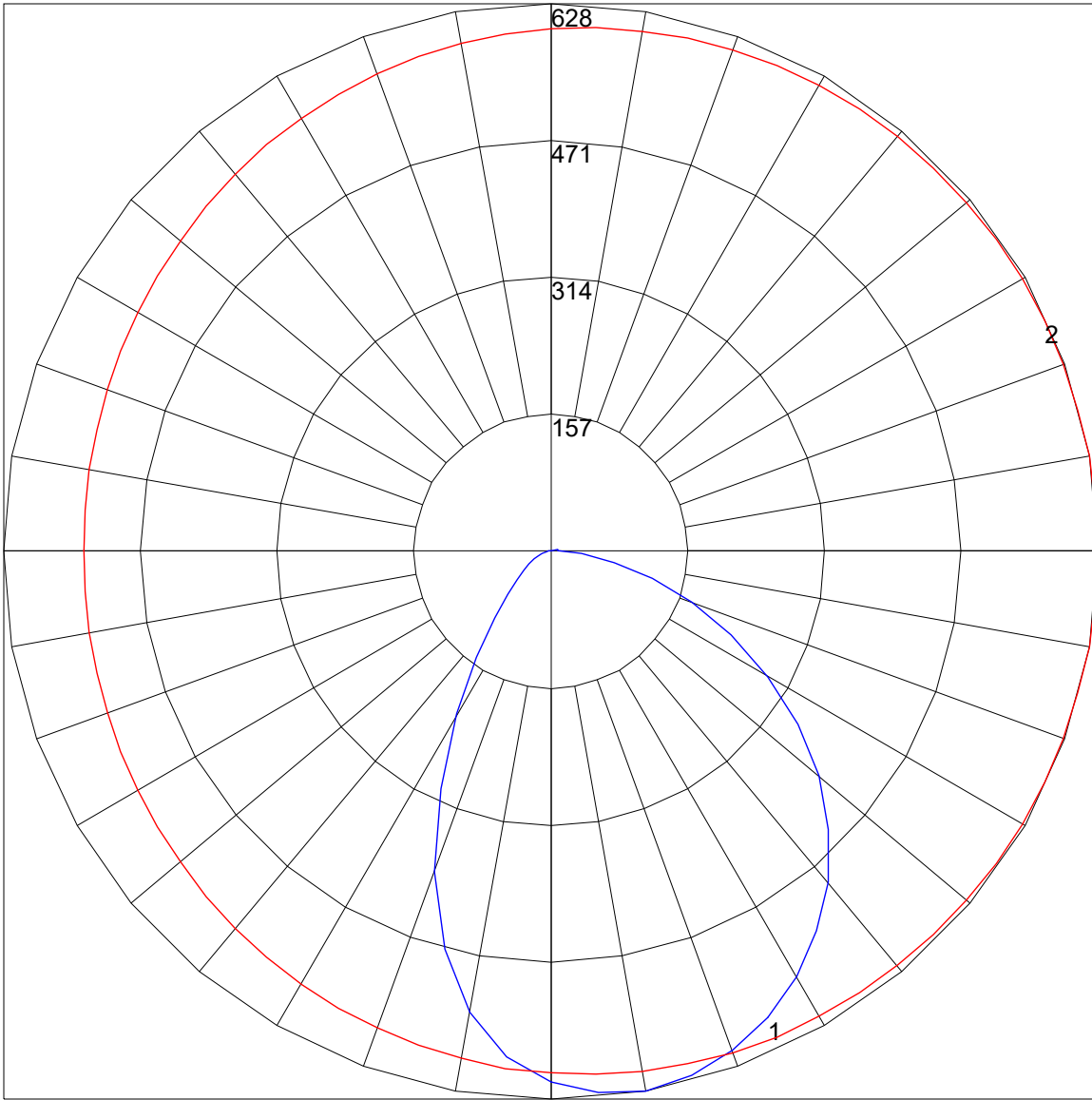
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z1\_LO\_359\_A2.IES**

**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
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	58	67	61	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	55	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	35	34
9	59	46	38	33	58	46	38	33	44	37	33	43	37	32	42	37	32	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

POLAR GRAPH



Maximum Candela = 627.5 Located At Horizontal Angle = 0, Vertical Angle = 10  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)