

IES Report

ZipWave® | 707 | Clear with EdgeSoft™ | 90 CRI | LO

707-Z9-4-48-AC / EL-XX-X-0-Z-LO-359-C1-0-AL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	79	82	84	85
Total Lumens, 4' rail length (1219mm)	1282	1322	1349	1376
Lumens per foot (305mm)	320	331	337	344
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_Z9_AC_LO_359_C1.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-Z9-48-AC-Z-LO-359-C1
[LUMINAIRE] ZipWave LED, 48", ceiling cove, 3500K, 90 CRI, zipper board,
[MORE] clear lens w/edge softening, low output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1349
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	16.25
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95	3.5	3.5	6.0	8.5	11.0	14.0	17.0	20.0	24.0	30.5
100	314.0	325.5	356.5	397.0	433.0	452.0	447.5	427.5	398.5	362.0
105	572.5	570.5	564.0	554.0	540.0	520.5	497.5	469.5	436.5	399.5
110	592.0	590.0	583.5	574.0	560.5	542.5	520.5	492.5	458.5	420.5
115	605.0	602.5	597.5	587.0	572.5	554.5	533.0	506.5	476.0	442.5
120	611.5	609.0	604.5	595.0	582.0	566.0	546.0	524.0	500.5	482.0
125	619.0	617.0	613.0	605.5	595.0	584.5	574.5	567.0	554.0	524.5
130	647.5	647.0	645.5	643.5	638.5	628.5	611.0	585.0	551.0	513.5
135	662.5	660.5	654.5	645.0	630.5	612.5	589.5	562.5	530.5	496.5
140	628.5	626.5	621.0	612.0	598.0	581.5	561.0	536.0	507.5	477.0
145	590.0	588.0	583.0	574.5	562.5	547.5	529.0	507.0	481.5	453.5
150	546.5	545.0	540.5	532.5	521.5	508.5	492.0	472.5	449.5	425.5
155	496.0	494.5	490.5	483.5	474.0	462.5	448.5	431.5	412.5	392.5
160	437.5	436.0	433.0	427.5	420.0	410.5	399.5	386.5	371.5	356.5
165	375.5	374.5	372.5	368.5	363.0	356.5	349.0	340.0	330.5	320.0
170	317.0	316.5	315.5	313.0	310.0	306.5	302.5	297.5	291.5	286.0
175	268.0	268.0	267.5	266.5	265.5	264.0	262.5	260.5	258.5	256.0
180	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0

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>
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	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.)

65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95	42.0	78.0	125.0	135.5	106.0	75.5	47.0	31.5	12.5	9.0
100	320.0	275.0	226.5	176.0	137.0	104.0	87.0	56.5	35.5	20.5
105	356.0	307.0	256.5	210.0	177.5	156.0	115.0	80.5	54.5	39.0
110	379.5	334.5	292.5	268.0	231.5	176.0	139.0	103.5	76.5	58.0
115	408.5	380.0	357.5	306.0	251.0	200.0	159.0	125.5	97.5	78.0
120	468.5	430.5	375.0	317.5	265.0	217.0	178.0	145.5	118.0	98.0
125	481.5	430.5	377.5	325.0	276.5	232.0	195.0	164.0	137.0	117.5
130	471.5	425.0	377.5	329.5	285.5	244.0	209.5	180.0	154.5	135.0
135	459.0	417.5	374.0	331.0	291.0	253.5	221.5	194.0	169.5	151.5
140	443.0	406.0	367.5	329.5	293.5	260.0	231.0	206.0	183.5	166.0
145	423.5	391.0	357.0	324.0	293.0	263.5	238.0	215.5	195.0	179.0
150	399.5	371.5	343.0	315.0	289.0	264.0	242.5	223.0	205.0	191.0
155	371.0	348.5	325.5	303.0	282.5	262.5	244.5	228.0	213.5	201.0
160	340.5	323.5	306.5	289.5	274.0	258.5	245.0	232.0	220.0	210.0
165	309.0	298.0	286.5	275.0	264.0	253.5	243.5	234.0	225.5	217.5
170	280.0	273.5	267.0	260.0	253.5	247.0	240.5	234.5	229.0	223.5
175	253.5	251.0	248.0	245.5	242.5	239.5	236.5	234.0	231.0	228.0
180	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0

Vert. Angles **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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
100	22.0	21.5	20.5	20.0	19.0	18.5	18.5	18.0	18.0	17.5
105	35.5	36.0	35.5	34.0	32.5	31.5	30.5	30.0	29.0	28.5
110	48.5	50.0	50.0	49.0	47.5	46.0	44.5	43.0	42.0	41.5
115	65.5	62.5	64.0	63.5	62.5	61.0	59.5	57.5	56.5	55.0
120	84.0	75.5	76.0	76.5	76.5	75.5	74.0	72.5	71.0	70.0
125	102.0	91.5	86.5	87.5	88.5	88.5	87.5	86.5	85.0	84.0
130	119.5	108.0	100.0	97.5	98.5	99.0	99.5	99.0	98.0	97.5
135	136.0	124.0	115.5	109.5	107.5	108.5	109.0	109.5	109.0	109.0

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CANDELA TABULATION - (Cont.)

140	151.5	139.5	130.5	123.5	118.5	116.5	117.0	117.5	118.0	118.0
145	166.0	154.5	145.0	138.0	132.0	128.0	125.5	124.5	125.0	125.5
150	178.5	168.0	159.0	152.0	145.5	141.0	137.5	134.5	132.5	131.5
155	190.0	180.5	172.0	165.5	159.5	154.5	150.5	147.0	144.5	142.5
160	200.5	192.5	185.0	178.5	173.0	168.5	164.5	161.0	158.0	155.5
165	210.0	203.5	197.0	192.0	187.0	183.0	179.0	176.0	173.0	170.5
170	218.5	213.5	209.0	205.0	201.0	198.0	195.0	192.5	190.0	188.0
175	225.5	223.0	220.5	218.5	216.0	214.0	212.5	211.0	209.5	208.0
180	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0

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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95	9.0	9.0	9.0	9.0	8.5	8.5	8.5
100	17.5	17.0	17.0	17.0	16.5	16.5	16.5
105	28.0	27.5	27.5	27.0	27.0	26.5	26.5
110	40.5	40.0	39.5	39.0	38.5	38.5	38.5
115	54.0	53.5	52.5	52.0	51.5	51.5	51.0
120	68.5	67.5	67.0	66.0	65.5	65.5	65.5
125	83.0	82.0	81.0	80.5	80.0	79.5	79.5
130	96.5	95.5	95.0	94.5	94.0	93.5	93.5
135	108.5	108.0	107.5	107.0	106.5	106.5	106.5
140	118.0	118.0	118.0	117.5	117.5	117.5	117.5
145	126.0	126.0	126.0	126.0	126.0	126.0	126.0
150	131.0	131.5	132.0	132.0	132.0	132.0	132.5
155	141.0	139.5	139.0	138.5	138.0	137.5	137.5
160	153.5	152.0	151.0	150.0	149.5	149.0	149.0
165	169.0	167.0	165.5	164.5	164.0	163.5	163.5
170	186.0	184.5	183.5	182.5	182.0	181.5	181.0
175	207.0	206.0	205.0	204.5	204.0	204.0	204.0
180	231.0	231.0	231.0	231.0	231.0	231.0	231.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	257.60	N.A.	19.10
90-120	491.08	N.A.	36.40
90-130	732.18	N.A.	54.30
90-150	1132.17	N.A.	83.90
90-180	1349.00	N.A.	100.00
110-180	1091.4	N.A.	80.90
0-180	1349.00	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	55.82
100-110	201.78
110-120	233.48
120-130	241.10
130-140	222.57
140-150	177.42
150-160	123.86
160-170	70.52
170-180	22.46

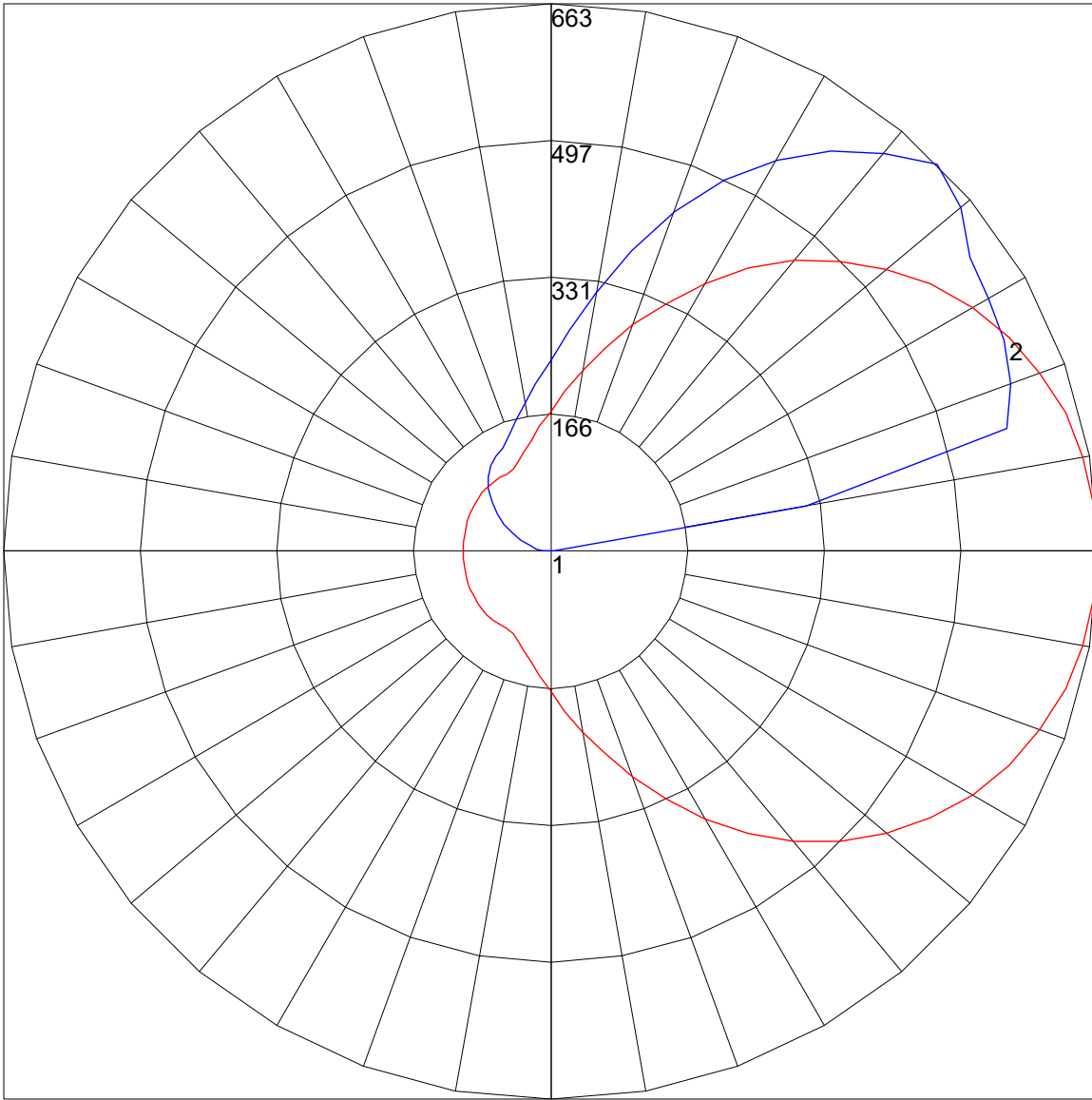
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 662.5 Located At Horizontal Angle = 0, Vertical Angle = 135
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (135) (Through Max. Cd.)