

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	95	98	100	101
Total Lumens, 4' rail length (1219mm)	1411	1455	1485	1500
Lumens per foot (305mm)	353	364	371	375
Input Power (W), 4' rail length (1219mm)	14.9	14.9	14.9	14.9
Watts per foot (305mm)	3.8	3.8	3.8	3.8
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_Z9_AC_Z_LO_359_C1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911558R01 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z9-48-AC-Z-LO-359-C1-AL

[LUMINAIRE] ZipWave LED, ceiling cove, 48", 3500K, 90 CRI, zipper board, clear lens w/edgesoft,

[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	1485
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	14.89
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	Unknown
Luminous Length (0-180)	0.00 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

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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	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	37.5	37.5	40.5	43.5	46.0	48.5	51.5	54.0	56.5	59.5
95	634.0	631.0	622.0	609.0	590.0	565.0	534.0	495.5	450.5	401.5
100	671.0	668.5	659.5	645.0	626.0	601.0	569.5	531.0	485.5	435.5
105	687.0	683.0	675.0	661.0	640.5	616.5	582.5	545.0	502.5	455.0
110	688.0	685.5	678.0	665.0	647.0	624.0	596.0	563.5	523.0	480.0
115	697.0	694.0	686.5	675.5	658.0	637.0	610.5	580.0	543.0	502.0
120	701.5	699.5	692.5	681.5	666.5	646.0	621.0	589.5	551.5	509.5
125	699.5	697.5	690.0	679.0	663.5	641.5	615.5	584.0	545.5	504.0
130	682.5	680.5	674.0	662.0	646.5	625.0	598.5	567.0	529.0	488.5
135	653.0	651.0	644.0	632.0	617.0	595.5	570.5	539.0	503.5	465.5
140	611.0	609.0	602.0	590.5	575.5	554.5	530.5	502.0	469.5	436.0
145	556.5	555.0	547.5	537.5	523.5	505.5	484.0	459.0	431.0	402.5
150	493.5	492.5	487.0	478.5	466.5	451.0	433.0	412.5	390.5	368.5
155	427.5	426.5	422.0	415.5	406.5	395.0	382.0	367.0	351.0	334.5
160	367.0	365.5	362.5	358.0	352.0	344.5	335.5	326.0	315.0	304.0
165	314.5	314.0	312.5	310.0	306.5	301.5	296.5	290.5	283.5	276.5
170	272.5	272.5	271.5	270.0	268.0	266.0	263.5	260.0	256.5	253.0
175	240.0	240.0	240.0	239.5	238.5	238.0	237.0	236.0	234.5	233.0
180	218.5	218.5	218.5	218.5	218.5	218.5	218.5	218.5	218.5	218.5

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	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	62.5	65.0	65.5	63.5	57.0	46.0	31.5	15.5	2.5	2.0
95	345.5	289.0	231.0	175.0	132.0	92.0	62.0	37.5	17.5	12.0
100	378.5	319.0	259.0	207.0	164.5	127.5	91.5	60.0	38.0	25.5
105	403.0	348.5	295.5	245.5	199.0	155.0	115.0	82.5	57.5	41.5
110	433.0	381.5	328.0	273.5	223.5	175.0	138.5	105.5	79.0	60.5
115	453.0	400.0	346.0	292.5	242.5	196.5	158.0	126.0	99.0	79.5
120	460.5	409.0	354.0	301.0	253.5	211.0	174.0	143.5	118.0	98.0
125	455.5	406.5	355.0	305.5	261.5	222.5	187.5	158.5	135.0	116.0
130	443.5	397.0	351.0	306.0	265.5	230.5	199.0	172.0	150.5	132.5
135	424.0	383.0	341.5	302.0	267.0	236.0	207.0	184.0	164.5	147.5
140	399.5	364.5	329.0	295.5	265.5	239.5	214.5	194.0	176.5	161.5
145	372.5	343.5	314.5	287.5	263.0	240.5	219.5	202.5	187.0	173.5
150	344.5	322.0	299.5	278.0	258.5	240.5	223.5	209.0	196.0	184.0
155	317.0	300.5	283.5	267.5	253.0	239.0	225.5	214.0	203.5	193.5
160	292.5	280.5	269.0	257.5	246.5	236.5	226.5	217.5	209.0	201.0
165	269.5	262.0	254.5	247.0	239.5	232.5	226.0	219.0	213.5	207.5
170	249.0	245.0	240.5	236.5	232.5	228.0	224.0	220.0	216.0	212.0
175	231.5	230.0	228.0	227.0	225.0	223.0	221.5	219.5	218.0	216.0
180	218.5	218.5	218.5	218.5	218.5	218.5	218.5	218.5	218.5	218.5

Vert. Angles **Horizontal Angles**

	100	105	110	115	120	125	130	135	140	145
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	2.0	2.0	2.0	2.0	2.0	1.5	1.5	1.5	1.5	1.5
95	9.5	8.0	7.0	6.0	5.5	5.0	4.5	4.0	3.5	3.0
100	23.5	20.5	18.0	16.0	14.5	13.0	12.0	11.5	10.5	10.0
105	39.0	36.5	33.0	30.0	27.0	25.0	23.5	22.0	20.5	19.5
110	54.0	52.5	49.0	45.5	42.0	39.5	37.0	35.0	33.0	31.5
115	69.0	67.5	65.5	62.0	58.5	55.0	52.0	49.5	47.0	45.0
120	85.5	81.5	80.0	77.5	74.5	71.0	68.0	65.0	62.5	60.5
125	102.5	94.5	93.5	92.0	89.5	87.0	84.0	81.0	78.5	76.0
130	119.0	109.5	105.5	105.0	103.5	101.5	98.5	96.0	94.0	91.5
135	135.0	125.0	118.0	116.0	115.5	114.0	112.5	110.5	108.5	106.5

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CANDELA TABULATION - (Cont.)

140	149.5	139.5	132.0	126.5	125.5	125.0	124.0	122.5	121.5	120.0
145	163.0	153.5	146.0	140.0	135.5	134.0	134.0	133.5	132.5	131.5
150	174.5	166.5	159.0	153.0	148.5	144.5	142.0	141.5	141.5	141.0
155	185.0	177.5	171.0	166.0	161.0	157.0	154.0	151.0	149.0	148.0
160	194.5	188.5	182.5	177.5	173.5	170.0	166.5	163.5	161.5	159.5
165	202.0	197.0	192.5	188.5	185.0	182.0	179.0	176.5	174.0	172.0
170	209.0	205.5	202.5	199.5	196.5	194.5	192.0	190.0	188.5	187.0
175	214.5	213.0	211.5	210.0	208.5	207.0	206.0	204.5	203.5	203.0
180	218.5	218.5	218.5	218.5	218.5	218.5	218.5	218.5	218.5	218.5

**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	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	1.5	1.5	1.5	1.5	1.0	1.0	1.0
95	3.0	2.5	2.5	2.0	2.0	2.0	2.0
100	9.5	9.0	8.5	8.0	8.0	7.5	7.5
105	18.5	18.0	17.5	17.0	16.5	16.0	16.0
110	30.5	29.0	28.5	27.5	27.0	27.0	26.5
115	43.5	42.5	41.5	40.5	40.0	39.5	39.5
120	58.5	57.0	55.5	54.5	54.0	53.5	53.0
125	74.0	72.0	70.5	69.5	69.0	68.5	68.0
130	89.5	88.0	86.5	85.0	84.5	84.0	84.0
135	104.5	103.0	101.5	100.5	99.5	99.5	99.0
140	118.5	117.0	116.0	115.5	114.5	114.0	114.0
145	130.5	130.0	129.0	128.5	128.0	127.5	127.5
150	140.5	140.0	139.5	139.0	139.0	139.0	139.0
155	148.0	147.5	147.0	147.5	147.0	147.0	147.0
160	158.0	156.5	155.5	154.5	154.5	154.0	154.0
165	171.0	169.5	168.5	167.5	167.0	166.5	166.5
170	185.5	184.5	183.5	183.0	182.0	182.0	182.0
175	202.0	201.5	201.0	200.5	200.0	200.0	200.0
180	218.5	218.5	218.5	218.5	218.5	218.5	218.5

IES INDOOR REPORT
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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	6.79	N.A.	0.50
10-90	6.79	N.A.	0.50
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	6.79	N.A.	0.50
90-110	399.89	N.A.	26.90
90-120	651.72	N.A.	43.90
90-130	897.61	N.A.	60.40
90-150	1279.23	N.A.	86.10
90-180	1478.19	N.A.	99.50
110-180	1078.3	N.A.	72.60
0-180	1484.98	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	6.79
90-100	164.11
100-110	235.78
110-120	251.83
120-130	245.88
130-140	214.83
140-150	166.79
150-160	113.40
160-170	64.58
170-180	20.99

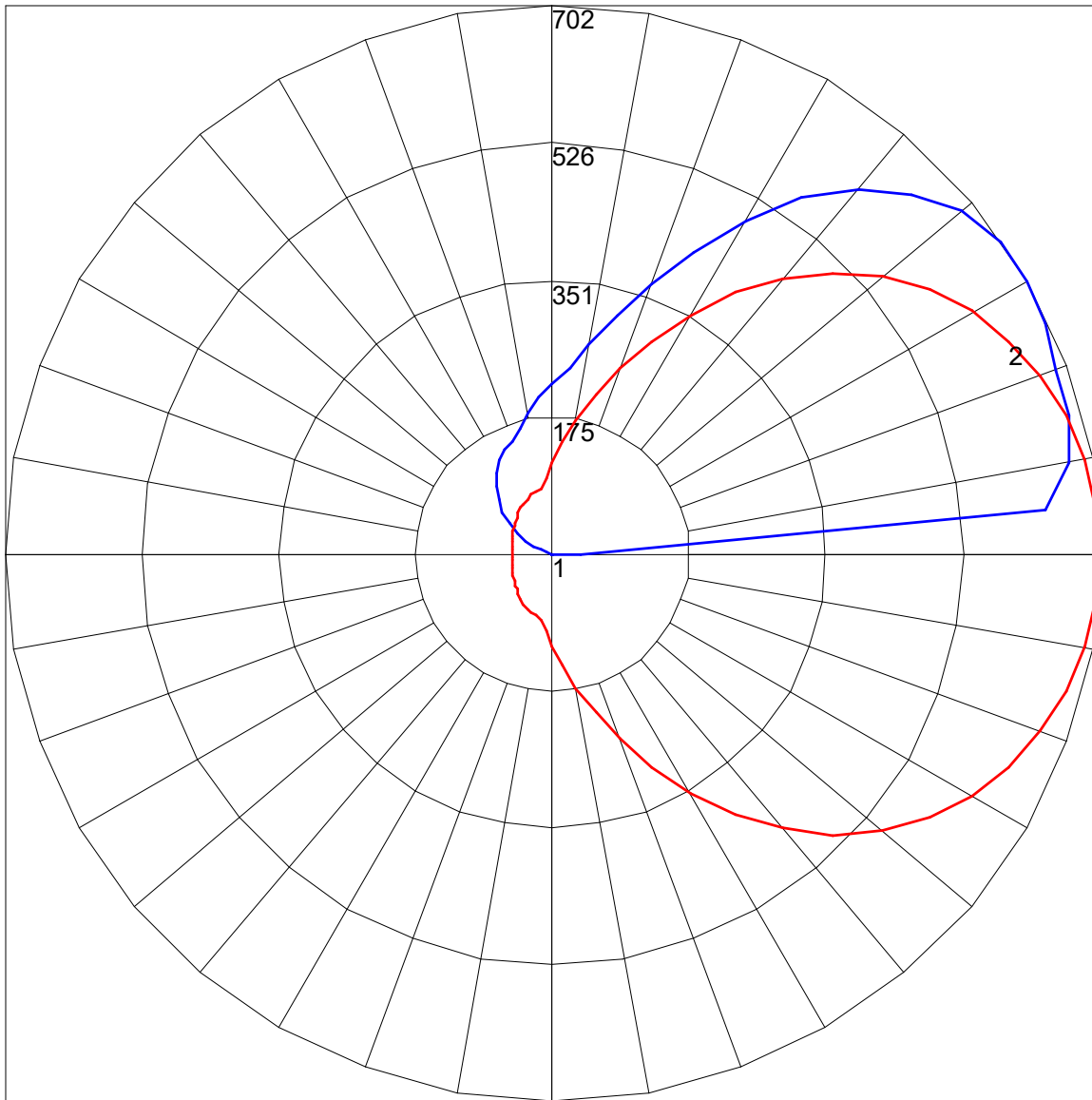
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	95	95	95	82	82	82	82	56	56	56	32	32	32	11	11	11	0
1	87	82	79	76	74	71	68	65	48	47	45	28	27	26	9	9	9	0
2	79	72	66	62	67	62	57	53	42	39	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	15	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	6	5	4	0
6	55	44	36	31	47	38	31	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	27	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 = 701.5 Located At Horizontal Angle = 0, Vertical Angle = 120
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (120) (Through Max. Cd.)