

IES Report

ZipWave® | 707 | Clear with EdgeSoft™, fixture in cove | 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	77	79	81	84
Total Lumens, 4' rail length (1219mm)	1243	1282	1308	1334
Lumens per foot (305mm)	311	320	327	334
Input Power (W), 4' rail length (1219mm)	16.25	16.25	16.25	16.25
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_IN COVE.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L101707602 (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", Armstrong ceiling cove part no. AXIDLCKKE812, 3500K, 90 CRI,
 [MORE] zipper board, 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	1308
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
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 w/Sides
Luminous Length (0-180)	0.01 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.02 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	2674	2479	0
65	3428	3621	0
75	4295	5118	0
85	4783	7530	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	19.0	19.0	18.5	18.0	18.0	17.5	16.5	15.5	14.5	12.5
55	22.0	22.0	22.0	22.0	21.5	21.0	20.0	19.0	17.5	16.0
60	25.5	25.5	25.0	25.0	24.5	24.0	23.5	22.5	21.0	19.5
65	28.5	28.5	28.0	28.0	28.0	28.0	27.0	26.0	24.5	23.0
70	31.5	31.5	31.0	31.0	31.0	30.5	30.0	29.5	28.5	27.0
75	35.0	35.0	34.5	34.5	34.5	34.0	33.0	32.0	31.5	31.0
80	36.5	36.5	36.5	37.5	37.5	38.0	37.0	37.0	36.5	36.0
85	37.0	37.5	38.0	40.0	41.0	42.0	42.5	43.0	42.5	42.0
90	47.0	53.5	75.5	173.5	67.0	148.0	108.0	65.0	125.0	131.5
95	599.0	556.5	461.5	550.0	480.0	522.5	481.5	448.5	422.0	364.5
100	638.0	633.5	624.5	614.0	595.5	573.5	545.0	510.0	468.5	421.5
105	657.0	651.5	643.0	632.5	614.5	590.5	561.5	527.0	487.0	440.5
110	664.0	660.5	653.5	640.5	622.5	600.0	572.0	540.0	503.5	466.5
115	672.0	669.0	660.5	647.5	631.5	612.5	591.0	567.0	543.5	516.5
120	687.5	684.5	679.5	673.0	664.5	652.5	635.0	609.5	573.5	524.5
125	726.0	717.5	714.5	700.5	682.5	659.0	629.5	594.5	552.5	506.0
130	694.0	690.5	682.5	670.0	652.0	628.0	599.5	566.5	528.0	485.5
135	650.5	649.0	642.0	630.5	613.5	592.5	565.5	535.0	499.5	460.5
140	605.5	603.5	596.5	586.0	571.5	550.0	526.5	498.0	466.5	431.0
145	555.0	552.0	544.5	534.5	520.5	503.0	480.5	455.5	427.0	396.0
150	493.0	491.5	484.5	475.5	463.0	447.5	428.5	407.0	383.0	358.0
155	425.5	423.5	418.5	410.5	400.5	388.0	372.5	356.5	339.0	318.5
160	356.5	355.5	352.5	347.5	340.0	331.5	321.0	308.5	297.0	285.0
165	297.5	297.5	295.0	292.0	288.5	283.5	277.5	270.5	263.0	255.0
170	252.0	252.0	251.0	250.0	248.0	245.5	243.0	239.5	236.0	232.0
175	219.5	219.5	219.5	218.5	218.0	217.0	216.5	215.0	214.0	212.5
180	196.5	196.5	196.5	196.5	196.5	196.5	196.5	196.5	196.5	196.5

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	10.0	6.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	14.0	11.5	8.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
60	17.5	15.5	12.5	8.5	1.0	0.0	0.0	0.0	0.0	0.0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z9_AC_LO_359_C1_IN COVE.IES

CANDELA TABULATION - (Cont.)

65	21.0	18.5	16.0	13.0	8.0	0.0	0.0	0.0	0.0	0.0
70	24.5	22.0	19.0	16.0	13.0	5.5	0.0	0.0	0.0	0.0
75	29.5	26.5	23.0	19.5	16.0	12.0	2.0	0.0	0.0	0.0
80	34.5	32.0	28.0	23.5	19.5	15.0	8.5	0.0	0.0	0.0
85	40.5	37.5	33.5	29.5	25.0	19.0	14.5	5.0	0.0	0.0
90	117.0	72.0	106.0	82.0	61.5	45.5	29.5	15.5	0.0	0.0
95	316.5	284.0	226.0	178.5	129.0	96.5	62.0	35.0	12.5	0.0
100	369.0	313.0	260.5	213.5	172.0	132.0	93.5	57.0	29.5	4.5
105	391.0	341.0	296.5	255.0	212.0	164.5	118.0	78.5	47.5	20.0
110	427.0	387.5	343.0	290.0	234.0	182.5	136.5	96.5	64.0	34.0
115	473.0	416.0	355.5	297.0	245.0	196.0	151.5	114.0	79.0	44.0
120	470.0	412.5	354.5	299.0	251.0	206.0	165.0	130.0	98.0	52.0
125	456.0	403.5	352.0	299.5	254.5	212.5	175.0	143.5	110.0	68.0
130	439.5	392.0	343.5	297.0	254.0	216.0	183.5	157.0	125.5	77.5
135	419.0	375.5	332.0	290.0	251.0	218.5	191.0	166.5	141.0	94.0
140	393.5	355.0	317.0	280.5	245.5	220.0	196.5	176.0	144.0	106.0
145	363.5	331.0	299.0	269.0	241.0	219.5	200.0	183.5	161.0	120.0
150	331.0	306.0	280.0	257.0	235.0	218.0	202.5	188.0	172.0	137.0
155	300.5	281.5	262.0	246.0	229.0	216.0	204.0	188.5	168.0	146.5
160	271.5	258.0	246.5	234.5	222.5	213.5	204.5	193.5	172.5	151.5
165	247.0	239.5	231.5	223.0	216.5	210.0	203.5	197.5	181.5	164.5
170	227.0	222.5	218.0	214.0	210.5	206.0	202.0	198.0	189.0	176.5
175	211.0	209.5	207.5	205.5	204.0	202.0	200.0	198.0	194.5	188.0
180	196.5	196.5	196.5	196.5	196.5	196.5	196.5	196.5	196.5	196.5

Vert. 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	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	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115	22.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120	30.0	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	33.0	23.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	44.0	25.0	19.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0
135	52.0	30.0	20.0	16.5	8.5	0.5	0.0	0.0	0.0	0.0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z9_AC_LO_359_C1_IN COVE.IES

CANDELA TABULATION - (Cont.)

140	67.0	38.0	23.5	17.0	14.5	9.5	3.5	0.0	0.0	0.0
145	80.5	50.5	31.0	21.0	15.0	12.5	11.0	6.5	3.0	0.0
150	96.5	67.0	44.5	26.5	19.5	13.5	10.5	9.5	8.0	6.5
155	113.5	83.5	60.0	43.5	28.5	19.5	15.5	11.5	8.0	7.0
160	130.5	107.0	83.5	60.5	47.5	36.5	26.5	17.5	14.5	12.0
165	147.5	130.5	112.5	95.0	78.0	62.0	48.5	42.0	35.5	30.0
170	164.0	151.5	139.5	128.0	116.5	106.0	96.0	86.5	78.0	70.5
175	181.0	174.5	168.0	162.0	156.0	150.5	145.0	140.5	136.0	132.0
180	196.5	196.5	196.5	196.5	196.5	196.5	196.5	196.5	196.5	196.5

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	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	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	4.5	3.0	2.0	1.0	0.5	0.0	0.0
155	6.5	6.5	6.0	5.5	5.0	5.0	0.0
160	10.0	8.5	7.5	6.5	6.0	5.5	0.0
165	25.5	21.5	18.0	15.5	14.0	13.0	0.0
170	63.5	58.0	53.5	49.5	47.0	45.0	0.0
175	128.5	125.0	122.5	120.5	119.0	118.5	0.0
180	196.5	196.5	196.5	196.5	196.5	196.5	196.5

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PHOTOMETRIC FILENAME : VODE_707_Z9_AC_LO_359_C1_IN COVE.IES

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	6.68	N.A.	0.50
0-80	29.00	N.A.	2.20
0-90	53.23	N.A.	4.10
10-90	53.23	N.A.	4.10
20-40	0.00	N.A.	0.00
20-50	0.99	N.A.	0.10
40-70	15.84	N.A.	1.20
60-80	22.32	N.A.	1.70
70-80	13.16	N.A.	1.00
80-90	24.23	N.A.	1.90
90-110	370.66	N.A.	28.30
90-120	595.68	N.A.	45.50
90-130	809.24	N.A.	61.90
90-150	1111.26	N.A.	85.00
90-180	1254.86	N.A.	95.90
110-180	884.20	N.A.	67.60
0-180	1308.09	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	0.99
50-60	5.68
60-70	9.17
70-80	13.16
80-90	24.23
90-100	153.67
100-110	216.99
110-120	225.02
120-130	213.56
130-140	174.46
140-150	127.56
150-160	81.63
160-170	45.39
170-180	16.58

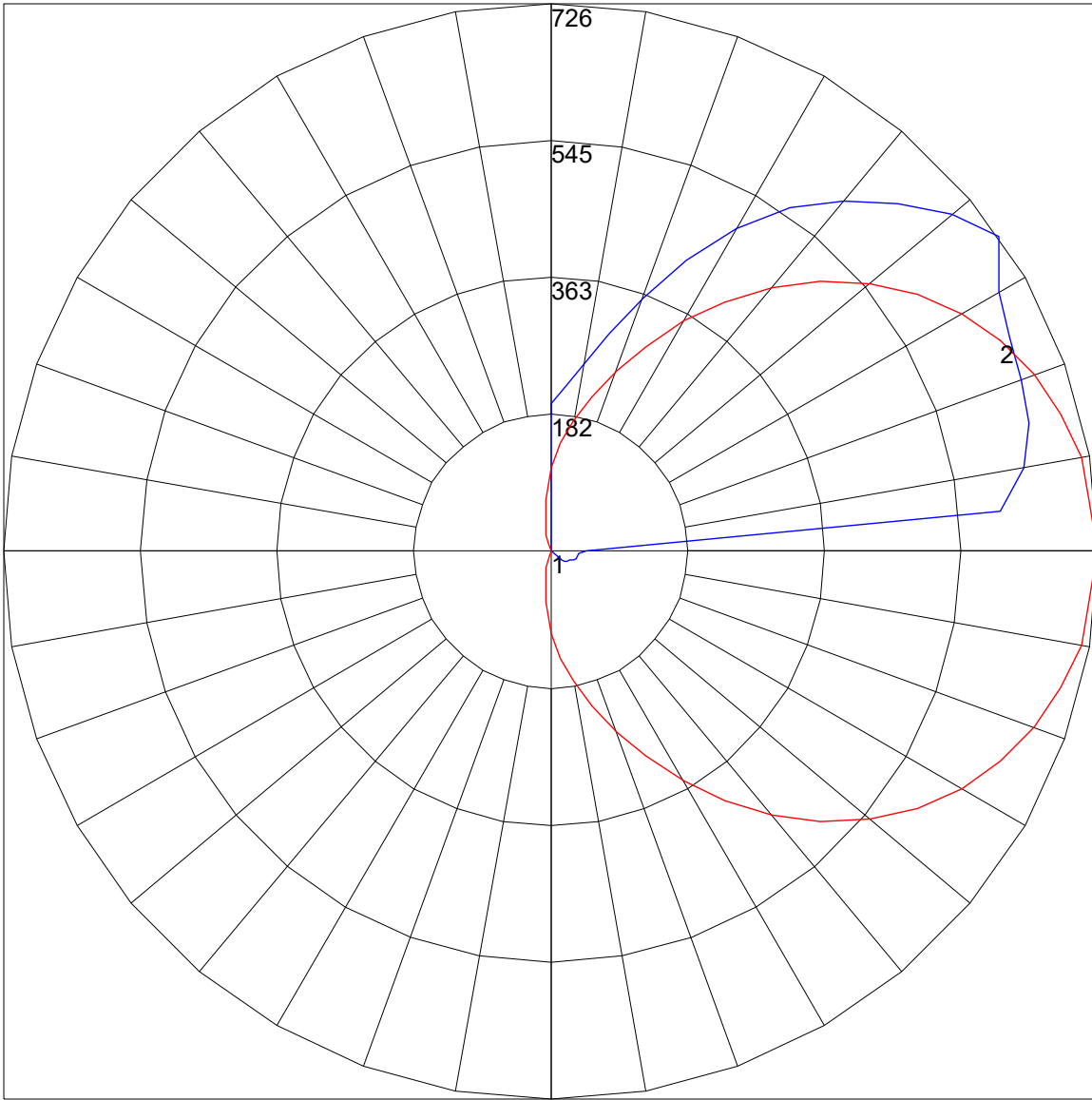
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z9_AC_LO_359_C1_IN COVE.IES

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	
0	96	96	96	96	83	83	83	83	58	58	58	35	35	35	14	14	14	4
1	87	82	78	75	74	71	68	65	49	47	45	29	28	27	11	10	10	2
2	79	71	65	60	67	61	57	52	43	40	37	25	24	22	9	9	8	1
3	71	62	55	50	61	54	48	43	37	34	31	22	20	18	8	7	6	1
4	65	55	47	42	56	47	41	36	33	29	26	19	17	15	7	6	5	0
5	60	49	41	35	51	42	36	31	29	25	22	17	15	13	6	5	5	0
6	55	43	36	30	47	37	31	26	26	22	19	15	13	11	6	5	4	0
7	50	39	31	26	43	33	27	23	23	19	16	14	11	10	5	4	3	0
8	46	35	28	23	40	30	24	20	21	17	14	13	10	8	5	4	3	0
9	43	31	25	20	37	27	21	17	19	15	12	11	9	7	4	3	3	0
10	40	29	22	17	34	25	19	15	17	14	11	10	8	7	4	3	2	0

POLAR GRAPH



Maximum Candela = 726 Located At Horizontal Angle = 0, Vertical Angle = 125
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (125) (Through Max. Cd.)