

IES Report

ZipWave® | 707 | Clear with EdgeSoft™, fixture in cove | 80 CRI | LO

707-Z9-4-48-AC / EL-XX-X-0-Z-LO-35-C1-0-AL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	107	111	113	113
Total Lumens, 4' rail length (1219mm)	1592	1642	1676	1676
Lumens per foot (305mm)	398	411	419	419
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	82	82	82	82

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_35_C1_IN COVE.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911559 (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-35-C1-AL

[LUMINAIRE] ZipWave LED, 48", Armstrong ceiling cove part no. AXIDLCCKE812, 3500K, 80 CRI, zipper board,

[MORE] clear lens w/edgesoft, 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	1676
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
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	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64
5	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64
10	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	5.22
15	5.22	5.22	5.22	5.22	5.22	5.22	5.22	5.22	5.22	5.22
20	5.22	5.22	5.22	5.22	5.22	5.22	5.22	5.22	5.22	5.22
25	5.22	5.22	5.22	5.22	5.22	5.22	5.22	5.80	5.80	5.80
30	5.22	5.22	5.22	5.22	5.22	5.22	5.80	5.80	5.80	5.80
35	7.54	7.54	7.54	7.54	6.96	6.96	6.38	6.38	6.38	6.38
40	15.08	15.08	14.50	13.34	12.76	11.02	9.86	8.70	8.12	7.54
45	19.72	19.72	19.72	19.14	17.98	17.40	16.82	14.50	12.18	9.86
50	25.52	25.52	24.94	24.36	23.20	22.04	20.88	19.72	17.98	15.66
55	30.74	30.74	30.16	29.58	29.00	27.84	26.68	24.94	22.04	20.30
60	35.96	35.96	35.38	34.80	34.22	33.06	31.90	30.16	27.84	25.52
65	40.02	40.02	39.44	39.44	38.86	38.86	37.12	35.38	33.64	30.74
70	44.66	44.66	44.08	43.50	42.92	43.50	42.34	41.18	39.44	36.54
75	49.30	49.30	48.72	48.14	47.56	46.98	47.56	46.98	45.24	42.34
80	53.36	53.36	52.78	52.20	52.20	51.62	53.36	53.36	51.62	49.88
85	55.68	55.68	55.68	56.84	58.58	59.16	59.74	59.16	58.58	56.26
90	56.26	56.84	59.16	62.06	62.06	65.54	64.38	67.28	65.54	63.22
95	136.30	209.38	428.62	274.34	411.22	339.30	354.96	433.84	443.70	373.52
100	835.78	778.94	802.14	805.04	774.88	744.14	708.18	657.72	600.88	535.34
105	874.64	867.10	857.82	842.16	816.06	781.84	739.50	689.62	632.20	566.66
110	890.30	882.76	874.06	853.76	826.50	792.86	751.68	704.70	653.66	596.82
115	892.62	889.14	878.70	858.40	835.78	807.36	771.98	730.22	682.08	629.30
120	901.32	894.94	885.08	869.42	847.96	821.28	787.06	747.62	699.48	644.38
125	901.90	897.84	890.88	872.32	850.86	823.60	789.38	748.78	699.48	644.96
130	889.72	881.60	872.90	858.40	836.94	807.94	773.72	733.12	684.40	631.62
135	856.66	847.96	838.10	823.60	802.14	775.46	740.08	701.22	655.98	605.52
140	798.66	795.76	787.64	772.56	754.00	725.58	694.26	655.98	614.80	568.98
145	730.80	728.48	719.20	706.44	688.46	664.10	634.52	601.46	564.92	526.06
150	651.92	647.28	639.74	628.72	613.06	592.18	567.82	540.56	510.40	479.08
155	564.34	560.86	555.06	545.78	533.02	516.78	498.22	478.50	455.88	430.36
160	478.50	477.34	473.28	466.90	458.20	447.18	434.42	419.92	404.84	389.76
165	406.58	406.58	403.10	399.04	394.40	388.60	381.06	372.36	362.50	352.64
170	349.74	349.74	348.58	346.84	343.94	341.04	337.56	333.50	328.86	323.64
175	307.40	307.40	307.40	305.08	302.76	299.86	296.96	292.90	288.84	284.20
180	226.78	226.78	226.78	226.78	226.78	226.78	226.78	226.78	226.78	226.78

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	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64
5	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64
10	5.22	5.22	5.22	5.22	5.22	5.22	5.22	4.64	4.64	4.64
15	5.22	5.22	5.22	5.22	5.22	5.22	5.22	5.22	5.22	5.22
20	5.22	5.22	5.80	5.80	5.80	5.80	5.22	5.22	5.22	5.22
25	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80
30	6.38	6.38	6.38	6.38	6.38	6.38	6.38	6.38	6.38	5.80
35	6.38	6.96	6.96	6.96	6.96	6.96	6.38	6.38	6.38	6.38
40	7.54	7.54	7.54	7.54	6.96	6.96	6.96	6.96	6.38	6.38
45	8.70	8.12	8.12	8.12	8.12	8.12	7.54	7.54	7.54	6.38
50	12.18	10.44	9.28	8.70	8.12	8.70	8.70	8.12	7.54	6.96
55	17.98	13.92	11.02	9.86	9.28	8.70	8.70	8.70	7.54	6.96
60	22.62	19.72	15.08	11.60	10.44	9.86	9.28	9.28	8.12	6.96

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CANDELA TABULATION - (Cont.)

65	27.26	23.78	20.30	15.66	12.76	10.44	9.86	9.28	8.12	6.96
70	33.06	29.58	24.94	20.30	15.66	12.76	11.02	10.44	8.70	6.96
75	39.44	34.80	30.16	24.94	20.30	15.66	12.18	10.44	8.70	6.96
80	46.40	41.76	37.12	30.74	24.94	19.14	13.92	11.02	8.70	6.96
85	53.36	49.88	44.66	37.70	31.32	23.78	17.40	12.18	8.12	6.96
90	72.50	75.40	66.12	78.30	60.90	53.36	34.22	18.56	8.12	8.12
95	307.98	299.28	248.82	211.12	154.28	114.26	73.66	42.92	23.20	14.50
100	464.00	390.92	325.38	262.74	206.48	156.60	112.52	71.92	41.18	24.36
105	497.64	426.88	364.24	307.98	251.72	197.78	147.32	102.08	63.80	33.64
110	535.92	470.96	405.42	347.42	288.26	230.84	176.90	128.76	81.78	42.34
115	569.56	502.86	435.58	371.78	314.36	255.78	200.68	155.44	102.08	52.78
120	584.06	519.10	451.82	386.28	331.18	274.34	221.56	177.48	126.44	61.48
125	585.22	522.58	459.36	394.40	339.88	287.10	238.38	198.94	137.46	77.14
130	574.78	515.04	454.14	394.98	341.62	295.22	252.30	218.08	163.56	85.84
135	552.74	498.22	442.54	388.60	338.72	299.86	264.48	225.04	164.14	105.56
140	522.00	473.28	424.56	378.16	334.08	302.76	273.18	246.50	186.76	116.58
145	484.88	443.70	403.68	365.98	330.02	303.92	278.98	251.72	204.74	134.56
150	444.86	413.54	381.06	352.64	324.22	303.34	284.20	243.60	196.62	149.64
155	407.74	383.96	359.60	339.30	317.84	301.60	286.52	257.52	212.28	168.78
160	372.94	355.54	340.46	325.38	309.72	298.12	286.52	270.28	229.10	187.92
165	342.20	332.34	322.48	311.46	300.44	289.42	278.40	266.80	236.64	204.16
170	317.84	311.46	302.76	292.32	281.88	271.44	260.42	249.40	232.58	212.28
175	278.98	273.18	267.38	261.58	255.20	248.82	242.44	235.48	227.94	218.66
180	226.78	226.78	226.78	226.78	226.78	226.78	226.78	226.78	226.78	226.78

Vert. Angles **Horizontal Angles**

	100	105	110	115	120	125	130	135	140	145
0	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64
5	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64
10	4.64	4.64	4.64	4.64	4.64	4.06	3.48	2.90	2.32	1.74
15	5.22	5.22	5.22	4.64	3.48	2.32	1.16	0.00	0.00	0.00
20	5.22	5.22	5.22	3.48	1.74	0.00	0.00	0.00	0.00	0.00
25	5.80	5.22	4.64	2.90	0.58	0.00	0.00	0.00	0.00	0.00
30	5.80	5.22	4.64	2.32	0.00	0.00	0.00	0.00	0.00	0.00
35	5.80	5.80	5.22	1.74	0.00	0.00	0.00	0.00	0.00	0.00
40	5.80	5.80	5.80	2.32	0.00	0.00	0.00	0.00	0.00	0.00
45	6.38	5.80	5.80	2.32	0.00	0.00	0.00	0.00	0.00	0.00
50	6.38	6.38	5.80	3.48	0.00	0.00	0.00	0.00	0.00	0.00
55	6.38	6.38	6.38	4.64	0.00	0.00	0.00	0.00	0.00	0.00
60	6.38	6.38	5.80	5.80	1.74	0.00	0.00	0.00	0.00	0.00
65	6.38	6.38	5.80	5.80	3.48	0.00	0.00	0.00	0.00	0.00
70	6.38	6.38	6.38	5.80	5.22	0.58	0.00	0.00	0.00	0.00
75	6.38	6.38	6.38	5.80	5.80	2.90	0.00	0.00	0.00	0.00
80	6.38	6.38	6.38	6.38	5.80	5.80	0.58	0.00	0.00	0.00
85	6.38	6.96	6.38	6.38	6.38	6.38	4.06	0.00	0.00	0.00
90	8.12	7.54	7.54	6.96	6.96	6.96	6.38	2.90	0.00	0.00
95	9.86	9.28	8.70	8.12	7.54	7.54	6.96	6.38	2.90	0.00
100	15.66	13.34	11.02	9.86	8.70	8.12	8.12	7.54	6.96	2.90
105	21.46	16.82	13.92	11.60	10.44	9.28	8.70	8.12	7.54	6.96
110	27.26	20.30	16.24	13.92	12.18	11.02	9.86	8.70	8.12	7.54
115	30.74	23.78	19.14	16.24	13.92	12.18	10.44	9.86	8.70	8.12
120	36.54	26.10	20.88	17.40	15.08	13.34	11.60	9.86	9.28	8.12
125	38.86	29.00	23.20	19.14	16.24	13.92	12.18	11.02	9.86	8.70
130	49.30	30.74	23.78	20.30	17.40	15.08	12.76	11.60	10.44	9.28
135	56.26	35.96	25.52	20.88	17.98	15.08	13.34	11.02	10.44	9.28

IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE_707_Z9_AC_LO_35_C1_IN COVE.IES

CANDELA TABULATION - (Cont.)

140	71.34	42.34	29.00	22.04	19.14	16.24	13.92	11.60	10.44	9.28
145	85.26	53.94	33.64	24.94	19.14	16.24	13.92	11.60	10.44	9.86
150	103.82	69.02	45.24	27.26	21.46	16.24	13.34	11.60	9.86	9.28
155	127.60	89.32	60.32	43.50	29.00	20.88	16.82	13.34	9.86	9.28
160	147.90	117.16	88.16	60.32	46.98	35.96	25.52	15.66	13.34	11.02
165	172.26	141.52	118.90	98.60	79.46	62.06	47.56	40.02	33.64	27.84
170	191.40	171.68	151.96	132.82	118.32	107.30	96.86	87.58	78.30	70.18
175	209.38	200.10	190.82	182.12	174.00	166.46	158.92	152.54	146.16	140.36
180	226.78	226.78	226.78	226.78	226.78	226.78	226.78	226.78	226.78	226.78

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	4.64	4.64	4.64	4.64	4.64	4.64	4.64
5	4.64	4.64	4.64	4.64	4.64	4.64	4.64
10	1.16	1.16	0.58	0.58	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	4.64	1.16	0.00	0.00	0.00	0.00	0.00
110	6.96	6.38	4.64	2.32	1.16	0.00	0.00
115	6.96	6.38	6.38	5.80	5.22	0.58	0.00
120	7.54	6.96	6.38	5.80	5.80	0.00	0.00
125	7.54	6.96	6.38	6.38	4.64	0.00	0.00
130	8.12	7.54	6.96	6.38	3.48	0.00	0.00
135	8.12	7.54	6.96	6.38	2.90	0.00	0.00
140	8.12	7.54	6.96	6.38	2.32	0.00	0.00
145	8.70	7.54	6.96	6.96	6.38	6.38	5.80
150	8.70	8.12	6.96	6.96	6.38	6.38	6.38
155	8.70	8.12	7.54	6.96	6.38	6.38	6.38
160	9.86	8.70	8.12	7.54	6.96	6.96	6.96
165	23.20	19.14	16.24	13.92	12.18	11.02	10.44
170	62.64	56.84	51.62	48.14	45.24	43.50	42.92
175	135.72	131.08	127.60	124.70	122.38	121.22	120.64
180	226.78	226.78	226.78	226.78	226.78	226.78	226.78

IES INDOOR REPORT**PHOTOMETRIC FILENAME : VODE_707_Z9_AC_LO_35_C1_IN COVE.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1.43	N.A.	0.10
0-30	3.09	N.A.	0.20
0-40	5.87	N.A.	0.40
0-60	21.05	N.A.	1.30
0-80	55.85	N.A.	3.30
0-90	83.51	N.A.	5.00
10-90	83.10	N.A.	5.00
20-40	4.44	N.A.	0.30
20-50	10.00	N.A.	0.60
40-70	29.76	N.A.	1.80
60-80	34.79	N.A.	2.10
70-80	20.21	N.A.	1.20
80-90	27.67	N.A.	1.70
90-110	434.71	N.A.	25.90
90-120	728.11	N.A.	43.40
90-130	1003.99	N.A.	59.90
90-150	1404.09	N.A.	83.80
90-180	1592.49	N.A.	95.00
110-180	1157.78	N.A.	69.10
0-180	1676.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.41
10-20	1.02
20-30	1.66
30-40	2.78
40-50	5.56
50-60	9.62
60-70	14.58
70-80	20.21
80-90	27.67
90-100	150.44
100-110	284.27
110-120	293.40
120-130	275.89
130-140	230.63
140-150	169.48
150-160	108.14
160-170	59.62
170-180	20.62

IES INDOOR REPORT

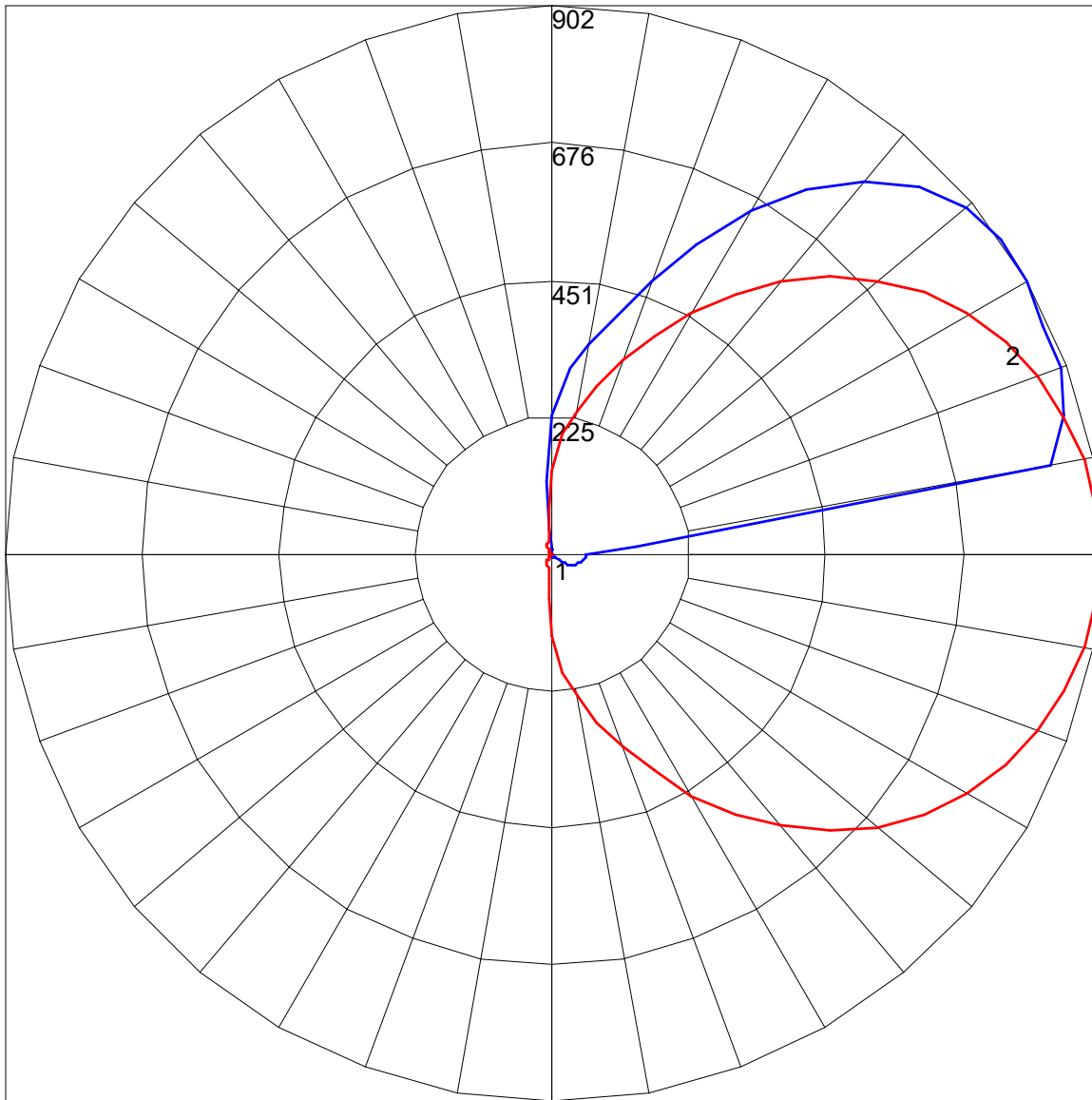
PHOTOMETRIC FILENAME : VODE_707_Z9_AC_LO_35_C1_IN COVE.IES

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	10	0
0	96	96	96	96	83	83	83	83	58	58	58	36	36	36	15	15	15	5
1	87	83	79	75	75	71	68	65	50	48	46	30	29	28	12	11	11	3
2	79	72	66	61	68	62	57	53	43	40	37	26	24	23	10	9	9	2
3	72	63	56	50	61	54	48	44	38	34	31	23	20	19	9	8	7	1
4	65	55	48	42	56	47	41	36	33	29	26	20	18	16	8	7	6	1
5	60	49	41	35	51	42	36	31	29	25	22	18	15	13	7	6	5	1
6	55	43	36	30	47	37	31	26	26	22	19	16	13	11	6	5	4	0
7	50	39	31	26	43	34	27	23	24	19	16	14	12	10	5	4	4	0
8	46	35	28	23	40	30	24	20	21	17	14	13	10	9	5	4	3	0
9	43	32	25	20	37	27	21	17	19	15	12	12	9	8	4	3	3	0
10	40	29	22	17	34	25	19	15	18	14	11	11	8	7	4	3	2	0

POLAR GRAPH



Maximum Candela = 901.9 Located At Horizontal Angle = 0, Vertical Angle = 125
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (125) (Through Max. Cd.)