

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	89	92	94	96
Total Lumens, 4' rail length (1219mm)	1442	1487	1517	1548
Lumens per foot (305mm)	360	372	379	387
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	85	85	85	85

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] 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-35-C1
[LUMINAIRE] ZipWave LED, 48", Armstrong ceiling cove part no. AXIDLCKKE812, 3500K, 80 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	1517
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
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	3102	2876	0
65	3976	4201	0
75	4983	5937	0
85	5549	8735	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	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	0.00	0.00	0.00
25	0.00	0.00	0.00	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	0.00	0.00	0.00
35	0.00	0.00	0.00	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	0.00	0.00	0.00
45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	22.04	22.04	21.46	20.88	20.88	20.30	19.14	17.98	16.82	14.50
55	25.52	25.52	25.52	25.52	24.94	24.36	23.20	22.04	20.30	18.56
60	29.58	29.58	29.00	29.00	28.42	27.84	27.26	26.10	24.36	22.62
65	33.06	33.06	32.48	32.48	32.48	32.48	31.32	30.16	28.42	26.68
70	36.54	36.54	35.96	35.96	35.96	35.38	34.80	34.22	33.06	31.32
75	40.60	40.60	40.02	40.02	40.02	39.44	38.28	37.12	36.54	35.96
80	42.34	42.34	42.34	43.50	43.50	44.08	42.92	42.92	42.34	41.76
85	42.92	43.50	44.08	46.40	47.56	48.72	49.30	49.88	49.30	48.72
90	54.52	62.06	87.58	201.26	77.72	171.68	125.28	75.40	145.00	152.54
95	694.84	645.54	535.34	638.00	556.80	606.10	558.54	520.26	489.52	422.82
100	740.08	734.86	724.42	712.24	690.78	665.26	632.20	591.60	543.46	488.94
105	762.12	755.74	745.88	733.70	712.82	684.98	651.34	611.32	564.92	510.98
110	770.24	766.18	758.06	742.98	722.10	696.00	663.52	626.40	584.06	541.14
115	779.52	776.04	766.18	751.10	732.54	710.50	685.56	657.72	630.46	599.14
120	797.50	794.02	788.22	780.68	770.82	756.90	736.60	707.02	665.26	608.42
125	842.16	832.30	828.82	812.58	791.70	764.44	730.22	689.62	640.90	586.96
130	805.04	800.98	791.70	777.20	756.32	728.48	695.42	657.14	612.48	563.18
135	754.58	752.84	744.72	731.38	711.66	687.30	655.98	620.60	579.42	534.18
140	702.38	700.06	691.94	679.76	662.94	638.00	610.74	577.68	541.14	499.96
145	643.80	640.32	631.62	620.02	603.78	583.48	557.38	528.38	495.32	459.36
150	571.88	570.14	562.02	551.58	537.08	519.10	497.06	472.12	444.28	415.28
155	493.58	491.26	485.46	476.18	464.58	450.08	432.10	413.54	393.24	369.46
160	413.54	412.38	408.90	403.10	394.40	384.54	372.36	357.86	344.52	330.60
165	345.10	345.10	342.20	338.72	334.66	328.86	321.90	313.78	305.08	295.80
170	292.32	292.32	291.16	290.00	287.68	284.78	281.88	277.82	273.76	269.12
175	254.62	254.62	254.62	253.46	252.88	251.72	251.14	249.40	248.24	246.50
180	227.94	227.94	227.94	227.94	227.94	227.94	227.94	227.94	227.94	227.94

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	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	0.00	0.00	0.00
25	0.00	0.00	0.00	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	0.00	0.00	0.00
35	0.00	0.00	0.00	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	0.00	0.00	0.00
45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	11.60	7.54	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	16.24	13.34	9.28	1.74	0.00	0.00	0.00	0.00	0.00	0.00
60	20.30	17.98	14.50	9.86	1.16	0.00	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

65	24.36	21.46	18.56	15.08	9.28	0.00	0.00	0.00	0.00	0.00
70	28.42	25.52	22.04	18.56	15.08	6.38	0.00	0.00	0.00	0.00
75	34.22	30.74	26.68	22.62	18.56	13.92	2.32	0.00	0.00	0.00
80	40.02	37.12	32.48	27.26	22.62	17.40	9.86	0.00	0.00	0.00
85	46.98	43.50	38.86	34.22	29.00	22.04	16.82	5.80	0.00	0.00
90	135.72	83.52	122.96	95.12	71.34	52.78	34.22	17.98	0.00	0.00
95	367.14	329.44	262.16	207.06	149.64	111.94	71.92	40.60	14.50	0.00
100	428.04	363.08	302.18	247.66	199.52	153.12	108.46	66.12	34.22	5.22
105	453.56	395.56	343.94	295.80	245.92	190.82	136.88	91.06	55.10	23.20
110	495.32	449.50	397.88	336.40	271.44	211.70	158.34	111.94	74.24	39.44
115	548.68	482.56	412.38	344.52	284.20	227.36	175.74	132.24	91.64	51.04
120	545.20	478.50	411.22	346.84	291.16	238.96	191.40	150.80	113.68	60.32
125	528.96	468.06	408.32	347.42	295.22	246.50	203.00	166.46	127.60	78.88
130	509.82	454.72	398.46	344.52	294.64	250.56	212.86	182.12	145.58	89.90
135	486.04	435.58	385.12	336.40	291.16	253.46	221.56	193.14	163.56	109.04
140	456.46	411.80	367.72	325.38	284.78	255.20	227.94	204.16	167.04	122.96
145	421.66	383.96	346.84	312.04	279.56	254.62	232.00	212.86	186.76	139.20
150	383.96	354.96	324.80	298.12	272.60	252.88	234.90	218.08	199.52	158.92
155	348.58	326.54	303.92	285.36	265.64	250.56	236.64	218.66	194.88	169.94
160	314.94	299.28	285.94	272.02	258.10	247.66	237.22	224.46	200.10	175.74
165	286.52	277.82	268.54	258.68	251.14	243.60	236.06	229.10	210.54	190.82
170	263.32	258.10	252.88	248.24	244.18	238.96	234.32	229.68	219.24	204.74
175	244.76	243.02	240.70	238.38	236.64	234.32	232.00	229.68	225.62	218.08
180	227.94	227.94	227.94	227.94	227.94	227.94	227.94	227.94	227.94	227.94

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	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	0.00	0.00	0.00
25	0.00	0.00	0.00	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	0.00	0.00	0.00
35	0.00	0.00	0.00	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	0.00	0.00	0.00
45	0.00	0.00	0.00	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	0.00	0.00	0.00
55	0.00	0.00	0.00	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	0.00	0.00	0.00
65	0.00	0.00	0.00	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	0.00	0.00	0.00
75	0.00	0.00	0.00	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	0.00	0.00	0.00
85	0.00	0.00	0.00	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	0.00	0.00	0.00
95	0.00	0.00	0.00	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	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	11.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	25.52	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	34.80	16.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	38.28	26.68	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	51.04	29.00	22.04	9.86	0.00	0.00	0.00	0.00	0.00	0.00
135	60.32	34.80	23.20	19.14	9.86	0.58	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

140	77.72	44.08	27.26	19.72	16.82	11.02	4.06	0.00	0.00	0.00
145	93.38	58.58	35.96	24.36	17.40	14.50	12.76	7.54	3.48	0.00
150	111.94	77.72	51.62	30.74	22.62	15.66	12.18	11.02	9.28	7.54
155	131.66	96.86	69.60	50.46	33.06	22.62	17.98	13.34	9.28	8.12
160	151.38	124.12	96.86	70.18	55.10	42.34	30.74	20.30	16.82	13.92
165	171.10	151.38	130.50	110.20	90.48	71.92	56.26	48.72	41.18	34.80
170	190.24	175.74	161.82	148.48	135.14	122.96	111.36	100.34	90.48	81.78
175	209.96	202.42	194.88	187.92	180.96	174.58	168.20	162.98	157.76	153.12
180	227.94	227.94	227.94	227.94	227.94	227.94	227.94	227.94	227.94	227.94

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	5.22	3.48	2.32	1.16	0.58	0.00	0.00
155	7.54	7.54	6.96	6.38	5.80	5.80	0.00
160	11.60	9.86	8.70	7.54	6.96	6.38	0.00
165	29.58	24.94	20.88	17.98	16.24	15.08	0.00
170	73.66	67.28	62.06	57.42	54.52	52.20	0.00
175	149.06	145.00	142.10	139.78	138.04	137.46	0.00
180	227.94	227.94	227.94	227.94	227.94	227.94	227.94

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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	7.75	N.A.	0.50
0-80	33.64	N.A.	2.20
0-90	61.75	N.A.	4.10
10-90	61.75	N.A.	4.10
20-40	0.00	N.A.	0.00
20-50	1.15	N.A.	0.10
40-70	18.38	N.A.	1.20
60-80	25.90	N.A.	1.70
70-80	15.26	N.A.	1.00
80-90	28.11	N.A.	1.90
90-110	429.96	N.A.	28.30
90-120	690.99	N.A.	45.50
90-130	938.71	N.A.	61.90
90-150	1289.06	N.A.	85.00
90-180	1455.63	N.A.	95.90
110-180	1025.67	N.A.	67.60
0-180	1517.38	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	1.15
50-60	6.59
60-70	10.63
70-80	15.26
80-90	28.11
90-100	178.25
100-110	251.71
110-120	261.03
120-130	247.72
130-140	202.38
140-150	147.97
150-160	94.69
160-170	52.65
170-180	19.24

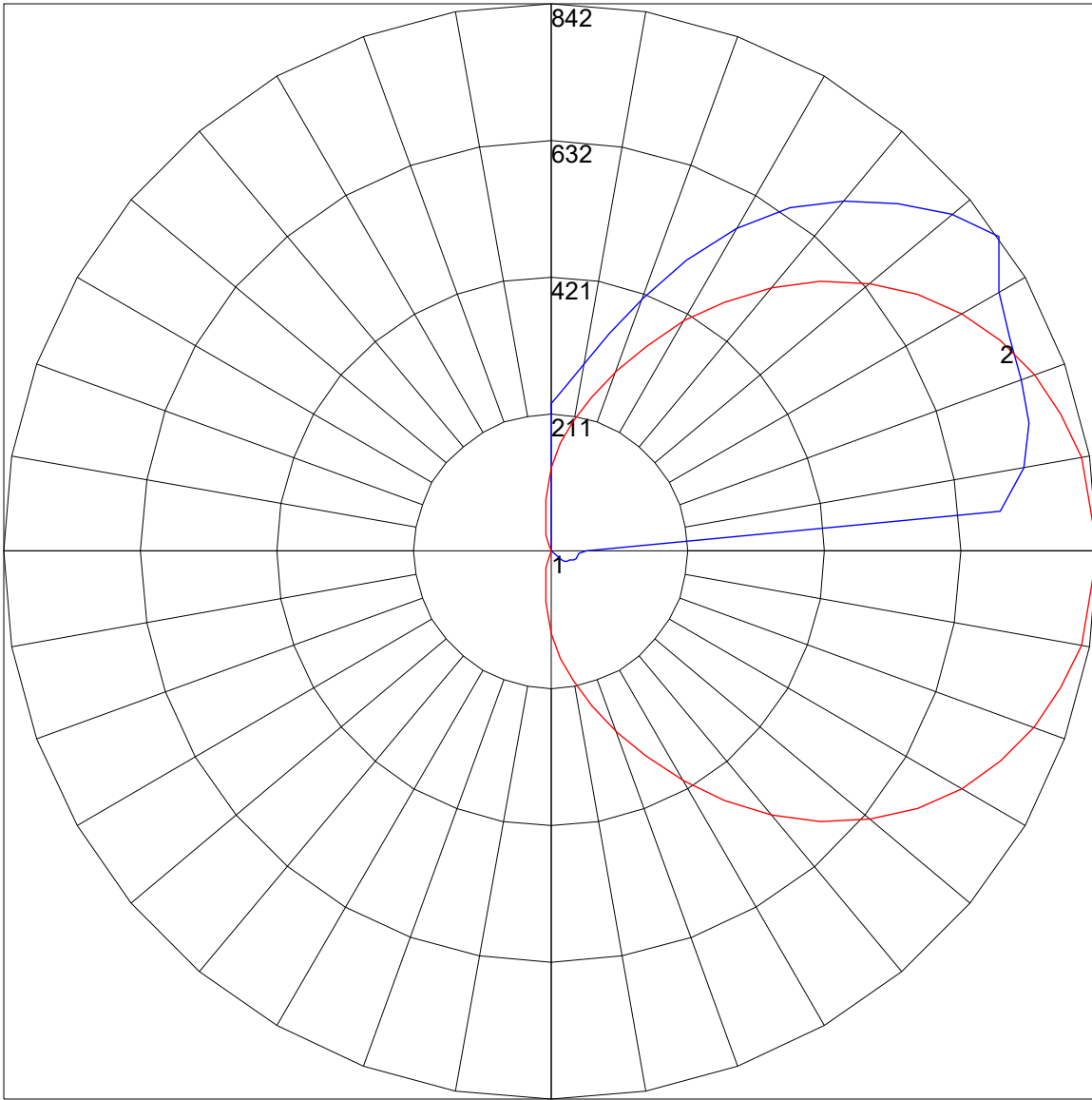
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	61	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 = 842.16 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.)