

IES Report

ZipWave® | 707 | Clear with EdgeSoft™ | 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	110	114	116	116
Total Lumens, 4' rail length (1219mm)	1636	1688	1723	1723
Lumens per foot (305mm)	409	422	431	431
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_Z_LO_35_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-35-C1-AL

[LUMINAIRE] ZipWave LED, ceiling cove, 48", 3500K, 80 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	1723
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
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	0.00	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	43.50	43.50	46.98	50.46	53.36	56.26	59.74	62.64	65.54	69.02
95	735.44	731.96	721.52	706.44	684.40	655.40	619.44	574.78	522.58	465.74
100	778.36	775.46	765.02	748.20	726.16	697.16	660.62	615.96	563.18	505.18
105	796.92	792.28	783.00	766.76	742.98	715.14	675.70	632.20	582.90	527.80
110	798.08	795.18	786.48	771.40	750.52	723.84	691.36	653.66	606.68	556.80
115	808.52	805.04	796.34	783.58	763.28	738.92	708.18	672.80	629.88	582.32
120	813.74	811.42	803.30	790.54	773.14	749.36	720.36	683.82	639.74	591.02
125	811.42	809.10	800.40	787.64	769.66	744.14	713.98	677.44	632.78	584.64
130	791.70	789.38	781.84	767.92	749.94	725.00	694.26	657.72	613.64	566.66
135	757.48	755.16	747.04	733.12	715.72	690.78	661.78	625.24	584.06	539.98
140	708.76	706.44	698.32	684.98	667.58	643.22	615.38	582.32	544.62	505.76
145	645.54	643.80	635.10	623.50	607.26	586.38	561.44	532.44	499.96	466.90
150	572.46	571.30	564.92	555.06	541.14	523.16	502.28	478.50	452.98	427.46
155	495.90	494.74	489.52	481.98	471.54	458.20	443.12	425.72	407.16	388.02
160	425.72	423.98	420.50	415.28	408.32	399.62	389.18	378.16	365.40	352.64
165	364.82	364.24	362.50	359.60	355.54	349.74	343.94	336.98	328.86	320.74
170	316.10	316.10	314.94	313.20	310.88	308.56	305.66	301.60	297.54	293.48
175	278.40	278.40	278.40	277.82	276.66	276.08	274.92	273.76	272.02	270.28
180	253.46	253.46	253.46	253.46	253.46	253.46	253.46	253.46	253.46	253.46

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	0.00	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

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

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	72.50	75.40	75.98	73.66	66.12	53.36	36.54	17.98	2.90	2.32
95	400.78	335.24	267.96	203.00	153.12	106.72	71.92	43.50	20.30	13.92
100	439.06	370.04	300.44	240.12	190.82	147.90	106.14	69.60	44.08	29.58
105	467.48	404.26	342.78	284.78	230.84	179.80	133.40	95.70	66.70	48.14
110	502.28	442.54	380.48	317.26	259.26	203.00	160.66	122.38	91.64	70.18
115	525.48	464.00	401.36	339.30	281.30	227.94	183.28	146.16	114.84	92.22
120	534.18	474.44	410.64	349.16	294.06	244.76	201.84	166.46	136.88	113.68
125	528.38	471.54	411.80	354.38	303.34	258.10	217.50	183.86	156.60	134.56
130	514.46	460.52	407.16	354.96	307.98	267.38	230.84	199.52	174.58	153.70
135	491.84	444.28	396.14	350.32	309.72	273.76	240.12	213.44	190.82	171.10
140	463.42	422.82	381.64	342.78	307.98	277.82	248.82	225.04	204.74	187.34
145	432.10	398.46	364.82	333.50	305.08	278.98	254.62	234.90	216.92	201.26
150	399.62	373.52	347.42	322.48	299.86	278.98	259.26	242.44	227.36	213.44
155	367.72	348.58	328.86	310.30	293.48	277.24	261.58	248.24	236.06	224.46
160	339.30	325.38	312.04	298.70	285.94	274.34	262.74	252.30	242.44	233.16
165	312.62	303.92	295.22	286.52	277.82	269.70	262.16	254.04	247.66	240.70
170	288.84	284.20	278.98	274.34	269.70	264.48	259.84	255.20	250.56	245.92
175	268.54	266.80	264.48	263.32	261.00	258.68	256.94	254.62	252.88	250.56
180	253.46	253.46	253.46	253.46	253.46	253.46	253.46	253.46	253.46	253.46

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	2.32	2.32	2.32	2.32	2.32	1.74	1.74	1.74	1.74	1.74
95	11.02	9.28	8.12	6.96	6.38	5.80	5.22	4.64	4.06	3.48
100	27.26	23.78	20.88	18.56	16.82	15.08	13.92	13.34	12.18	11.60
105	45.24	42.34	38.28	34.80	31.32	29.00	27.26	25.52	23.78	22.62
110	62.64	60.90	56.84	52.78	48.72	45.82	42.92	40.60	38.28	36.54
115	80.04	78.30	75.98	71.92	67.86	63.80	60.32	57.42	54.52	52.20
120	99.18	94.54	92.80	89.90	86.42	82.36	78.88	75.40	72.50	70.18
125	118.90	109.62	108.46	106.72	103.82	100.92	97.44	93.96	91.06	88.16
130	138.04	127.02	122.38	121.80	120.06	117.74	114.26	111.36	109.04	106.14
135	156.60	145.00	136.88	134.56	133.98	132.24	130.50	128.18	125.86	123.54

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PHOTOMETRIC FILENAME : VODE_707_Z9_AC_Z_LO_35_C1.IES

CANDELA TABULATION - (Cont.)

140	173.42	161.82	153.12	146.74	145.58	145.00	143.84	142.10	140.94	139.20
145	189.08	178.06	169.36	162.40	157.18	155.44	155.44	154.86	153.70	152.54
150	202.42	193.14	184.44	177.48	172.26	167.62	164.72	164.14	164.14	163.56
155	214.60	205.90	198.36	192.56	186.76	182.12	178.64	175.16	172.84	171.68
160	225.62	218.66	211.70	205.90	201.26	197.20	193.14	189.66	187.34	185.02
165	234.32	228.52	223.30	218.66	214.60	211.12	207.64	204.74	201.84	199.52
170	242.44	238.38	234.90	231.42	227.94	225.62	222.72	220.40	218.66	216.92
175	248.82	247.08	245.34	243.60	241.86	240.12	238.96	237.22	236.06	235.48
180	253.46	253.46	253.46	253.46	253.46	253.46	253.46	253.46	253.46	253.46

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	0.00	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	1.74	1.74	1.74	1.74	1.16	1.16	1.16
95	3.48	2.90	2.90	2.32	2.32	2.32	2.32
100	11.02	10.44	9.86	9.28	9.28	8.70	8.70
105	21.46	20.88	20.30	19.72	19.14	18.56	18.56
110	35.38	33.64	33.06	31.90	31.32	31.32	30.74
115	50.46	49.30	48.14	46.98	46.40	45.82	45.82
120	67.86	66.12	64.38	63.22	62.64	62.06	61.48
125	85.84	83.52	81.78	80.62	80.04	79.46	78.88
130	103.82	102.08	100.34	98.60	98.02	97.44	97.44
135	121.22	119.48	117.74	116.58	115.42	115.42	114.84
140	137.46	135.72	134.56	133.98	132.82	132.24	132.24
145	151.38	150.80	149.64	149.06	148.48	147.90	147.90
150	162.98	162.40	161.82	161.24	161.24	161.24	161.24
155	171.68	171.10	170.52	171.10	170.52	170.52	170.52
160	183.28	181.54	180.38	179.22	179.22	178.64	178.64
165	198.36	196.62	195.46	194.30	193.72	193.14	193.14
170	215.18	214.02	212.86	212.28	211.12	211.12	211.12
175	234.32	233.74	233.16	232.58	232.00	232.00	232.00
180	253.46	253.46	253.46	253.46	253.46	253.46	253.46

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	7.88	N.A.	0.50
10-90	7.88	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	7.88	N.A.	0.50
90-110	463.87	N.A.	26.90
90-120	756.00	N.A.	43.90
90-130	1041.22	N.A.	60.40
90-150	1483.9	N.A.	86.10
90-180	1714.7	N.A.	99.50
110-180	1250.83	N.A.	72.60
0-180	1722.58	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	7.88
90-100	190.37
100-110	273.50
110-120	292.13
120-130	285.23
130-140	249.21
140-150	193.47
150-160	131.54
160-170	74.91
170-180	24.35

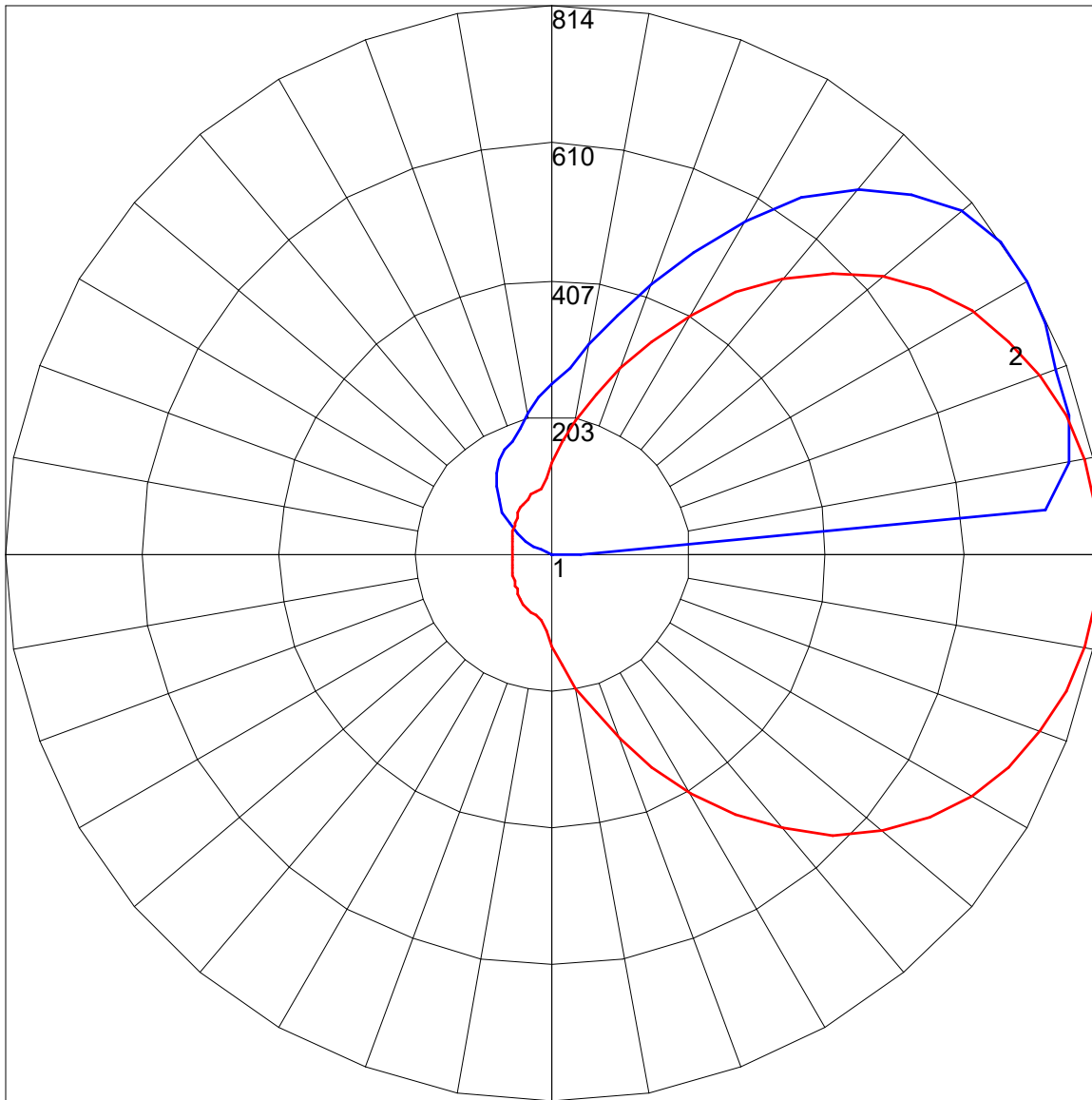
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	55	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 = 813.74 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.)