

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	113	117	119	119
Total Lumens, 4' rail length (1219mm)	6050	6241	6369	6369
Lumens per foot (305mm)	1513	1560	1592	1592
Input Power (W), 4' rail length (1219mm)	53.7	53.7	53.7	53.7
Watts per foot (305mm)	13.5	13.5	13.5	13.5
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_HO_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-HO-35-C1-AL

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

[MORE] clear lens w/edgesoft, high 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	6357
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	53.73
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	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
5	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
10	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	19.8
15	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
20	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
25	19.8	19.8	19.8	19.8	19.8	19.8	19.8	22.0	22.0	22.0
30	19.8	19.8	19.8	19.8	19.8	19.8	22.0	22.0	22.0	22.0
35	28.6	28.6	28.6	28.6	26.4	26.4	24.2	24.2	24.2	24.2
40	57.2	57.2	55.0	50.6	48.4	41.8	37.4	33.0	30.8	28.6
45	74.8	74.8	74.8	72.6	68.2	66.0	63.8	55.0	46.2	37.4
50	96.8	96.8	94.6	92.4	88.0	83.6	79.2	74.8	68.2	59.4
55	116.6	116.6	114.4	112.2	110.0	105.6	101.2	94.6	83.6	77.0
60	136.4	136.4	134.2	132.0	129.8	125.4	121.0	114.4	105.6	96.8
65	151.8	151.8	149.6	149.6	147.4	147.4	140.8	134.2	127.6	116.6
70	169.4	169.4	167.2	165.0	162.8	165.0	160.6	156.2	149.6	138.6
75	187.0	187.0	184.8	182.6	180.4	178.2	180.4	178.2	171.6	160.6
80	202.4	202.4	200.2	198.0	198.0	195.8	202.4	202.4	195.8	189.2
85	211.2	211.2	211.2	215.6	222.2	224.4	226.6	224.4	222.2	213.4
90	213.4	215.6	224.4	235.4	235.4	248.6	244.2	255.2	248.6	239.8
95	517.0	794.2	1625.8	1040.6	1559.8	1287.0	1346.4	1645.6	1683.0	1416.8
100	3170.2	2954.6	3042.6	3053.6	2939.2	2822.6	2686.2	2494.8	2279.2	2030.6
105	3317.6	3289.0	3253.8	3194.4	3095.4	2965.6	2805.0	2615.8	2398.0	2149.4
110	3377.0	3348.4	3315.4	3238.4	3135.0	3007.4	2851.2	2673.0	2479.4	2263.8
115	3385.8	3372.6	3333.0	3256.0	3170.2	3062.4	2928.2	2769.8	2587.2	2387.0
120	3418.8	3394.6	3357.2	3297.8	3216.4	3115.2	2985.4	2835.8	2653.2	2444.2
125	3421.0	3405.6	3379.2	3308.8	3227.4	3124.0	2994.2	2840.2	2653.2	2446.4
130	3374.8	3344.0	3311.0	3256.0	3174.6	3064.6	2934.8	2780.8	2596.0	2395.8
135	3249.4	3216.4	3179.0	3124.0	3042.6	2941.4	2807.2	2659.8	2488.2	2296.8
140	3029.4	3018.4	2987.6	2930.4	2860.0	2752.2	2633.4	2488.2	2332.0	2158.2
145	2772.0	2763.2	2728.0	2679.6	2611.4	2519.0	2406.8	2281.4	2142.8	1995.4
150	2472.8	2455.2	2426.6	2384.8	2325.4	2246.2	2153.8	2050.4	1936.0	1817.2
155	2140.6	2127.4	2105.4	2070.2	2021.8	1960.2	1889.8	1815.0	1729.2	1632.4
160	1815.0	1810.6	1795.2	1771.0	1738.0	1696.2	1647.8	1592.8	1535.6	1478.4
165	1542.2	1542.2	1529.0	1513.6	1496.0	1474.0	1445.4	1412.4	1375.0	1337.6
170	1326.6	1326.6	1322.2	1315.6	1304.6	1293.6	1280.4	1265.0	1247.4	1227.6
175	1166.0	1166.0	1166.0	1157.2	1148.4	1137.4	1126.4	1111.0	1095.6	1078.0
180	860.2	860.2	860.2	860.2	860.2	860.2	860.2	860.2	860.2	860.2

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	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
5	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
10	19.8	19.8	19.8	19.8	19.8	19.8	19.8	17.6	17.6	17.6
15	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
20	19.8	19.8	22.0	22.0	22.0	22.0	19.8	19.8	19.8	19.8
25	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
30	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	22.0
35	24.2	26.4	26.4	26.4	26.4	26.4	24.2	24.2	24.2	24.2
40	28.6	28.6	28.6	28.6	26.4	26.4	26.4	26.4	24.2	24.2
45	33.0	30.8	30.8	30.8	30.8	30.8	28.6	28.6	28.6	24.2
50	46.2	39.6	35.2	33.0	30.8	33.0	33.0	30.8	28.6	26.4
55	68.2	52.8	41.8	37.4	35.2	33.0	33.0	33.0	28.6	26.4
60	85.8	74.8	57.2	44.0	39.6	37.4	35.2	35.2	30.8	26.4

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CANDELA TABULATION - (Cont.)

65	103.4	90.2	77.0	59.4	48.4	39.6	37.4	35.2	30.8	26.4
70	125.4	112.2	94.6	77.0	59.4	48.4	41.8	39.6	33.0	26.4
75	149.6	132.0	114.4	94.6	77.0	59.4	46.2	39.6	33.0	26.4
80	176.0	158.4	140.8	116.6	94.6	72.6	52.8	41.8	33.0	26.4
85	202.4	189.2	169.4	143.0	118.8	90.2	66.0	46.2	30.8	26.4
90	275.0	286.0	250.8	297.0	231.0	202.4	129.8	70.4	30.8	30.8
95	1168.2	1135.2	943.8	800.8	585.2	433.4	279.4	162.8	88.0	55.0
100	1760.0	1482.8	1234.2	996.6	783.2	594.0	426.8	272.8	156.2	92.4
105	1887.6	1619.2	1381.6	1168.2	954.8	750.2	558.8	387.2	242.0	127.6
110	2032.8	1786.4	1537.8	1317.8	1093.4	875.6	671.0	488.4	310.2	160.6
115	2160.4	1907.4	1652.2	1410.2	1192.4	970.2	761.2	589.6	387.2	200.2
120	2215.4	1969.0	1713.8	1465.2	1256.2	1040.6	840.4	673.2	479.6	233.2
125	2219.8	1982.2	1742.4	1496.0	1289.2	1089.0	904.2	754.6	521.4	292.6
130	2180.2	1953.6	1722.6	1498.2	1295.8	1119.8	957.0	827.2	620.4	325.6
135	2096.6	1889.8	1678.6	1474.0	1284.8	1137.4	1003.2	853.6	622.6	400.4
140	1980.0	1795.2	1610.4	1434.4	1267.2	1148.4	1036.2	935.0	708.4	442.2
145	1839.2	1683.0	1531.2	1388.2	1251.8	1152.8	1058.2	954.8	776.6	510.4
150	1687.4	1568.6	1445.4	1337.6	1229.8	1150.6	1078.0	924.0	745.8	567.6
155	1546.6	1456.4	1364.0	1287.0	1205.6	1144.0	1086.8	976.8	805.2	640.2
160	1414.6	1348.6	1291.4	1234.2	1174.8	1130.8	1086.8	1025.2	869.0	712.8
165	1298.0	1260.6	1223.2	1181.4	1139.6	1097.8	1056.0	1012.0	897.6	774.4
170	1205.6	1181.4	1148.4	1108.8	1069.2	1029.6	987.8	946.0	882.2	805.2
175	1058.2	1036.2	1014.2	992.2	968.0	943.8	919.6	893.2	864.6	829.4
180	860.2	860.2	860.2	860.2	860.2	860.2	860.2	860.2	860.2	860.2

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
5	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
10	17.6	17.6	17.6	17.6	17.6	15.4	13.2	11.0	8.8	6.6
15	19.8	19.8	19.8	17.6	13.2	8.8	4.4	0.0	0.0	0.0
20	19.8	19.8	19.8	13.2	6.6	0.0	0.0	0.0	0.0	0.0
25	22.0	19.8	17.6	11.0	2.2	0.0	0.0	0.0	0.0	0.0
30	22.0	19.8	17.6	8.8	0.0	0.0	0.0	0.0	0.0	0.0
35	22.0	22.0	19.8	6.6	0.0	0.0	0.0	0.0	0.0	0.0
40	22.0	22.0	22.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0
45	24.2	22.0	22.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0
50	24.2	24.2	22.0	13.2	0.0	0.0	0.0	0.0	0.0	0.0
55	24.2	24.2	24.2	17.6	0.0	0.0	0.0	0.0	0.0	0.0
60	24.2	24.2	22.0	22.0	6.6	0.0	0.0	0.0	0.0	0.0
65	24.2	24.2	22.0	22.0	13.2	0.0	0.0	0.0	0.0	0.0
70	24.2	24.2	24.2	22.0	19.8	2.2	0.0	0.0	0.0	0.0
75	24.2	24.2	24.2	22.0	22.0	11.0	0.0	0.0	0.0	0.0
80	24.2	24.2	24.2	24.2	22.0	22.0	2.2	0.0	0.0	0.0
85	24.2	26.4	24.2	24.2	24.2	24.2	15.4	0.0	0.0	0.0
90	30.8	28.6	28.6	26.4	26.4	26.4	24.2	11.0	0.0	0.0
95	37.4	35.2	33.0	30.8	28.6	28.6	26.4	24.2	11.0	0.0
100	59.4	50.6	41.8	37.4	33.0	30.8	30.8	28.6	26.4	11.0
105	81.4	63.8	52.8	44.0	39.6	35.2	33.0	30.8	28.6	26.4
110	103.4	77.0	61.6	52.8	46.2	41.8	37.4	33.0	30.8	28.6
115	116.6	90.2	72.6	61.6	52.8	46.2	39.6	37.4	33.0	30.8
120	138.6	99.0	79.2	66.0	57.2	50.6	44.0	37.4	35.2	30.8
125	147.4	110.0	88.0	72.6	61.6	52.8	46.2	41.8	37.4	33.0
130	187.0	116.6	90.2	77.0	66.0	57.2	48.4	44.0	39.6	35.2
135	213.4	136.4	96.8	79.2	68.2	57.2	50.6	41.8	39.6	35.2

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CANDELA TABULATION - (Cont.)

140	270.6	160.6	110.0	83.6	72.6	61.6	52.8	44.0	39.6	35.2
145	323.4	204.6	127.6	94.6	72.6	61.6	52.8	44.0	39.6	37.4
150	393.8	261.8	171.6	103.4	81.4	61.6	50.6	44.0	37.4	35.2
155	484.0	338.8	228.8	165.0	110.0	79.2	63.8	50.6	37.4	35.2
160	561.0	444.4	334.4	228.8	178.2	136.4	96.8	59.4	50.6	41.8
165	653.4	536.8	451.0	374.0	301.4	235.4	180.4	151.8	127.6	105.6
170	726.0	651.2	576.4	503.8	448.8	407.0	367.4	332.2	297.0	266.2
175	794.2	759.0	723.8	690.8	660.0	631.4	602.8	578.6	554.4	532.4
180	860.2	860.2	860.2	860.2	860.2	860.2	860.2	860.2	860.2	860.2

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	17.6	17.6	17.6	17.6	17.6	17.6	17.6
5	17.6	17.6	17.6	17.6	17.6	17.6	17.6
10	4.4	4.4	2.2	2.2	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	17.6	4.4	0.0	0.0	0.0	0.0	0.0
110	26.4	24.2	17.6	8.8	4.4	0.0	0.0
115	26.4	24.2	24.2	22.0	19.8	2.2	0.0
120	28.6	26.4	24.2	22.0	22.0	0.0	0.0
125	28.6	26.4	24.2	24.2	17.6	0.0	0.0
130	30.8	28.6	26.4	24.2	13.2	0.0	0.0
135	30.8	28.6	26.4	24.2	11.0	0.0	0.0
140	30.8	28.6	26.4	24.2	8.8	0.0	0.0
145	33.0	28.6	26.4	26.4	24.2	24.2	22.0
150	33.0	30.8	26.4	26.4	24.2	24.2	24.2
155	33.0	30.8	28.6	26.4	24.2	24.2	24.2
160	37.4	33.0	30.8	28.6	26.4	26.4	26.4
165	88.0	72.6	61.6	52.8	46.2	41.8	39.6
170	237.6	215.6	195.8	182.6	171.6	165.0	162.8
175	514.8	497.2	484.0	473.0	464.2	459.8	457.6
180	860.2	860.2	860.2	860.2	860.2	860.2	860.2

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5.43	N.A.	0.10
0-30	11.72	N.A.	0.20
0-40	22.28	N.A.	0.40
0-60	79.85	N.A.	1.30
0-80	211.83	N.A.	3.30
0-90	316.78	N.A.	5.00
10-90	315.21	N.A.	5.00
20-40	16.85	N.A.	0.30
20-50	37.94	N.A.	0.60
40-70	112.88	N.A.	1.80
60-80	131.98	N.A.	2.10
70-80	76.67	N.A.	1.20
80-90	104.94	N.A.	1.70
90-110	1648.89	N.A.	25.90
90-120	2761.79	N.A.	43.40
90-130	3808.25	N.A.	59.90
90-150	5325.87	N.A.	83.80
90-180	6040.46	N.A.	95.00
110-180	4391.57	N.A.	69.10
0-180	6357.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.56
10-20	3.86
20-30	6.29
30-40	10.56
40-50	21.08
50-60	36.49
60-70	55.30
70-80	76.67
80-90	104.94
90-100	570.64
100-110	1078.26
110-120	1112.89
120-130	1046.46
130-140	874.78
140-150	642.84
150-160	410.20
160-170	226.16
170-180	78.23

IES INDOOR REPORT

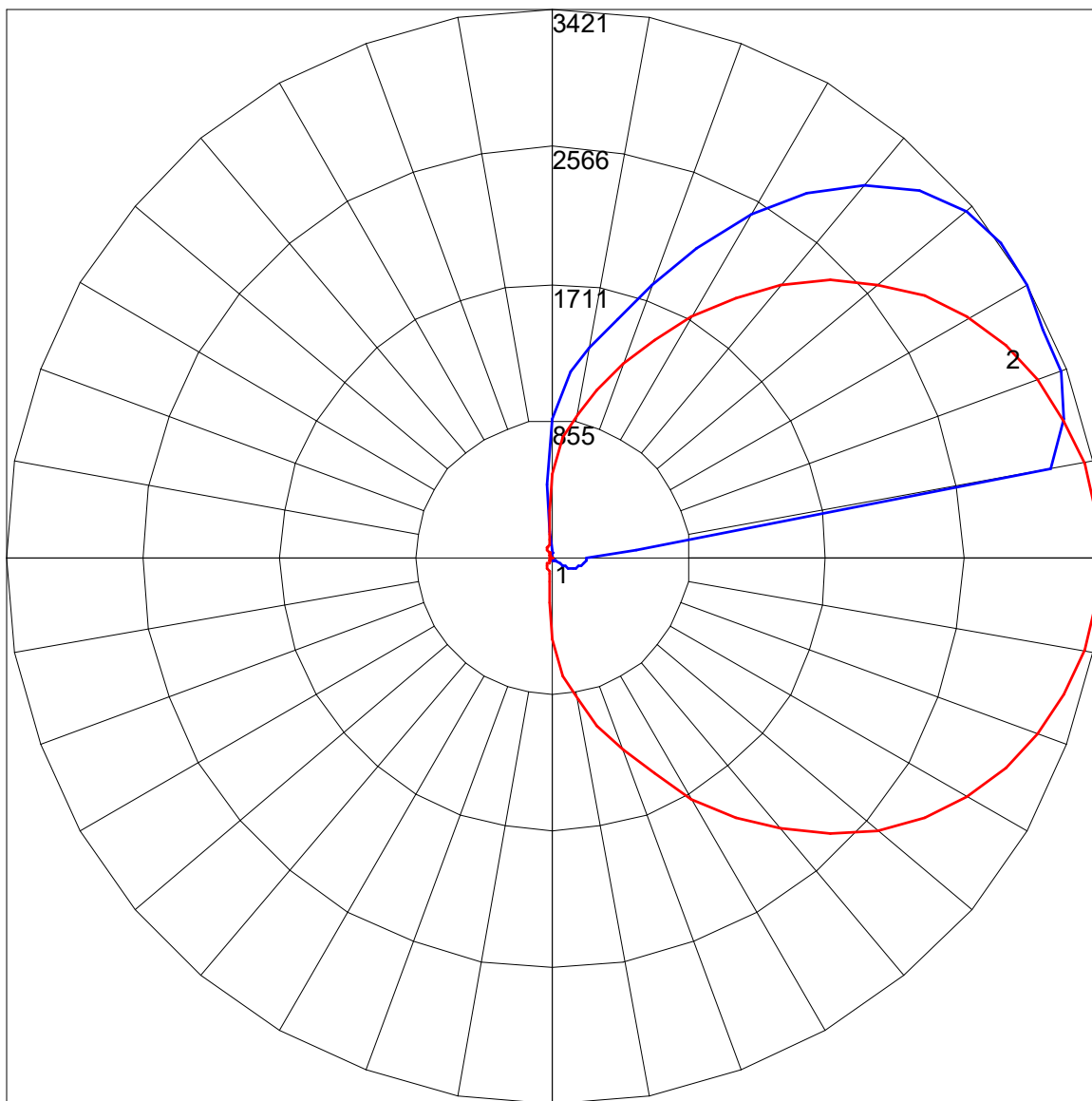
PHOTOMETRIC FILENAME : VODE_707_Z9_AC_HO_35_C1_IN COVE.IES

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 = 3421 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.)