

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	102	105	108	110
Total Lumens, 4' rail length (1219mm)	5478	5651	5766	5881
Lumens per foot (305mm)	1369	1413	1442	1470
Input Power (W), 4' rail length (1219mm)	53.9	53.9	53.9	53.9
Watts per foot (305mm)	13.5	13.5	13.5	13.5
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_HO_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-HO-35-C1
[LUMINAIRE] ZipWave LED, 48", Armstrong ceiling cove part no. AXIDLCKKE812, 3500K, 80 CRI,
[MORE] zipper board, clear lens w/edge softening, high output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5756
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	53.86
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	11766	10909	0
65	15083	15934	0
75	18899	22521	0
85	21047	33133	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	83.6	83.6	81.4	79.2	79.2	77.0	72.6	68.2	63.8	55.0
55	96.8	96.8	96.8	96.8	94.6	92.4	88.0	83.6	77.0	70.4
60	112.2	112.2	110.0	110.0	107.8	105.6	103.4	99.0	92.4	85.8
65	125.4	125.4	123.2	123.2	123.2	123.2	118.8	114.4	107.8	101.2
70	138.6	138.6	136.4	136.4	136.4	134.2	132.0	129.8	125.4	118.8
75	154.0	154.0	151.8	151.8	151.8	149.6	145.2	140.8	138.6	136.4
80	160.6	160.6	160.6	165.0	165.0	167.2	162.8	162.8	160.6	158.4
85	162.8	165.0	167.2	176.0	180.4	184.8	187.0	189.2	187.0	184.8
90	206.8	235.4	332.2	763.4	294.8	651.2	475.2	286.0	550.0	578.6
95	2635.6	2448.6	2030.6	2420.0	2112.0	2299.0	2118.6	1973.4	1856.8	1603.8
100	2807.2	2787.4	2747.8	2701.6	2620.2	2523.4	2398.0	2244.0	2061.4	1854.6
105	2890.8	2866.6	2829.2	2783.0	2703.8	2598.2	2470.6	2318.8	2142.8	1938.2
110	2921.6	2906.2	2875.4	2818.2	2739.0	2640.0	2516.8	2376.0	2215.4	2052.6
115	2956.8	2943.6	2906.2	2849.0	2778.6	2695.0	2600.4	2494.8	2391.4	2272.6
120	3025.0	3011.8	2989.8	2961.2	2923.8	2871.0	2794.0	2681.8	2523.4	2307.8
125	3194.4	3157.0	3143.8	3082.2	3003.0	2899.6	2769.8	2615.8	2431.0	2226.4
130	3053.6	3038.2	3003.0	2948.0	2868.8	2763.2	2637.8	2492.6	2323.2	2136.2
135	2862.2	2855.6	2824.8	2774.2	2699.4	2607.0	2488.2	2354.0	2197.8	2026.2
140	2664.2	2655.4	2624.6	2578.4	2514.6	2420.0	2316.6	2191.2	2052.6	1896.4
145	2442.0	2428.8	2395.8	2351.8	2290.2	2213.2	2114.2	2004.2	1878.8	1742.4
150	2169.2	2162.6	2131.8	2092.2	2037.2	1969.0	1885.4	1790.8	1685.2	1575.2
155	1872.2	1863.4	1841.4	1806.2	1762.2	1707.2	1639.0	1568.6	1491.6	1401.4
160	1568.6	1564.2	1551.0	1529.0	1496.0	1458.6	1412.4	1357.4	1306.8	1254.0
165	1309.0	1309.0	1298.0	1284.8	1269.4	1247.4	1221.0	1190.2	1157.2	1122.0
170	1108.8	1108.8	1104.4	1100.0	1091.2	1080.2	1069.2	1053.8	1038.4	1020.8
175	965.8	965.8	965.8	961.4	959.2	954.8	952.6	946.0	941.6	935.0
180	864.6	864.6	864.6	864.6	864.6	864.6	864.6	864.6	864.6	864.6

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	0.0	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	44.0	28.6	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	61.6	50.6	35.2	6.6	0.0	0.0	0.0	0.0	0.0	0.0
60	77.0	68.2	55.0	37.4	4.4	0.0	0.0	0.0	0.0	0.0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z9_AC_HO_35_C1_IN COVE.IES

CANDELA TABULATION - (Cont.)

65	92.4	81.4	70.4	57.2	35.2	0.0	0.0	0.0	0.0	0.0
70	107.8	96.8	83.6	70.4	57.2	24.2	0.0	0.0	0.0	0.0
75	129.8	116.6	101.2	85.8	70.4	52.8	8.8	0.0	0.0	0.0
80	151.8	140.8	123.2	103.4	85.8	66.0	37.4	0.0	0.0	0.0
85	178.2	165.0	147.4	129.8	110.0	83.6	63.8	22.0	0.0	0.0
90	514.8	316.8	466.4	360.8	270.6	200.2	129.8	68.2	0.0	0.0
95	1392.6	1249.6	994.4	785.4	567.6	424.6	272.8	154.0	55.0	0.0
100	1623.6	1377.2	1146.2	939.4	756.8	580.8	411.4	250.8	129.8	19.8
105	1720.4	1500.4	1304.6	1122.0	932.8	723.8	519.2	345.4	209.0	88.0
110	1878.8	1705.0	1509.2	1276.0	1029.6	803.0	600.6	424.6	281.6	149.6
115	2081.2	1830.4	1564.2	1306.8	1078.0	862.4	666.6	501.6	347.6	193.6
120	2068.0	1815.0	1559.8	1315.6	1104.4	906.4	726.0	572.0	431.2	228.8
125	2006.4	1775.4	1548.8	1317.8	1119.8	935.0	770.0	631.4	484.0	299.2
130	1933.8	1724.8	1511.4	1306.8	1117.6	950.4	807.4	690.8	552.2	341.0
135	1843.6	1652.2	1460.8	1276.0	1104.4	961.4	840.4	732.6	620.4	413.6
140	1731.4	1562.0	1394.8	1234.2	1080.2	968.0	864.6	774.4	633.6	466.4
145	1599.4	1456.4	1315.6	1183.6	1060.4	965.8	880.0	807.4	708.4	528.0
150	1456.4	1346.4	1232.0	1130.8	1034.0	959.2	891.0	827.2	756.8	602.8
155	1322.2	1238.6	1152.8	1082.4	1007.6	950.4	897.6	829.4	739.2	644.6
160	1194.6	1135.2	1084.6	1031.8	979.0	939.4	899.8	851.4	759.0	666.6
165	1086.8	1053.8	1018.6	981.2	952.6	924.0	895.4	869.0	798.6	723.8
170	998.8	979.0	959.2	941.6	926.2	906.4	888.8	871.2	831.6	776.6
175	928.4	921.8	913.0	904.2	897.6	888.8	880.0	871.2	855.8	827.2
180	864.6	864.6	864.6	864.6	864.6	864.6	864.6	864.6	864.6	864.6

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	41.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115	96.8	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120	132.0	63.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	145.2	101.2	44.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	193.6	110.0	83.6	37.4	0.0	0.0	0.0	0.0	0.0	0.0
135	228.8	132.0	88.0	72.6	37.4	2.2	0.0	0.0	0.0	0.0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z9_AC_HO_35_C1_IN COVE.IES

CANDELA TABULATION - (Cont.)

140	294.8	167.2	103.4	74.8	63.8	41.8	15.4	0.0	0.0	0.0
145	354.2	222.2	136.4	92.4	66.0	55.0	48.4	28.6	13.2	0.0
150	424.6	294.8	195.8	116.6	85.8	59.4	46.2	41.8	35.2	28.6
155	499.4	367.4	264.0	191.4	125.4	85.8	68.2	50.6	35.2	30.8
160	574.2	470.8	367.4	266.2	209.0	160.6	116.6	77.0	63.8	52.8
165	649.0	574.2	495.0	418.0	343.2	272.8	213.4	184.8	156.2	132.0
170	721.6	666.6	613.8	563.2	512.6	466.4	422.4	380.6	343.2	310.2
175	796.4	767.8	739.2	712.8	686.4	662.2	638.0	618.2	598.4	580.8
180	864.6	864.6	864.6	864.6	864.6	864.6	864.6	864.6	864.6	864.6

Vert. Horizontal Angles

Angles	150	155	160	165	170	175	180
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	19.8	13.2	8.8	4.4	2.2	0.0	0.0
155	28.6	28.6	26.4	24.2	22.0	22.0	0.0
160	44.0	37.4	33.0	28.6	26.4	24.2	0.0
165	112.2	94.6	79.2	68.2	61.6	57.2	0.0
170	279.4	255.2	235.4	217.8	206.8	198.0	0.0
175	565.4	550.0	539.0	530.2	523.6	521.4	0.0
180	864.6	864.6	864.6	864.6	864.6	864.6	864.6

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z9_AC_HO_35_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	29.38	N.A.	0.50
0-80	127.60	N.A.	2.20
0-90	234.22	N.A.	4.10
10-90	234.22	N.A.	4.10
20-40	0.00	N.A.	0.00
20-50	4.37	N.A.	0.10
40-70	69.71	N.A.	1.20
60-80	98.22	N.A.	1.70
70-80	57.89	N.A.	1.00
80-90	106.62	N.A.	1.90
90-110	1630.89	N.A.	28.30
90-120	2621.00	N.A.	45.50
90-130	3560.64	N.A.	61.90
90-150	4889.53	N.A.	85.00
90-180	5521.37	N.A.	95.90
110-180	3890.48	N.A.	67.60
0-180	5755.59	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	4.37
50-60	25.01
60-70	40.33
70-80	57.89
80-90	106.62
90-100	676.14
100-110	954.76
110-120	990.10
120-130	939.65
130-140	767.64
140-150	561.26
150-160	359.15
160-170	199.72
170-180	72.97

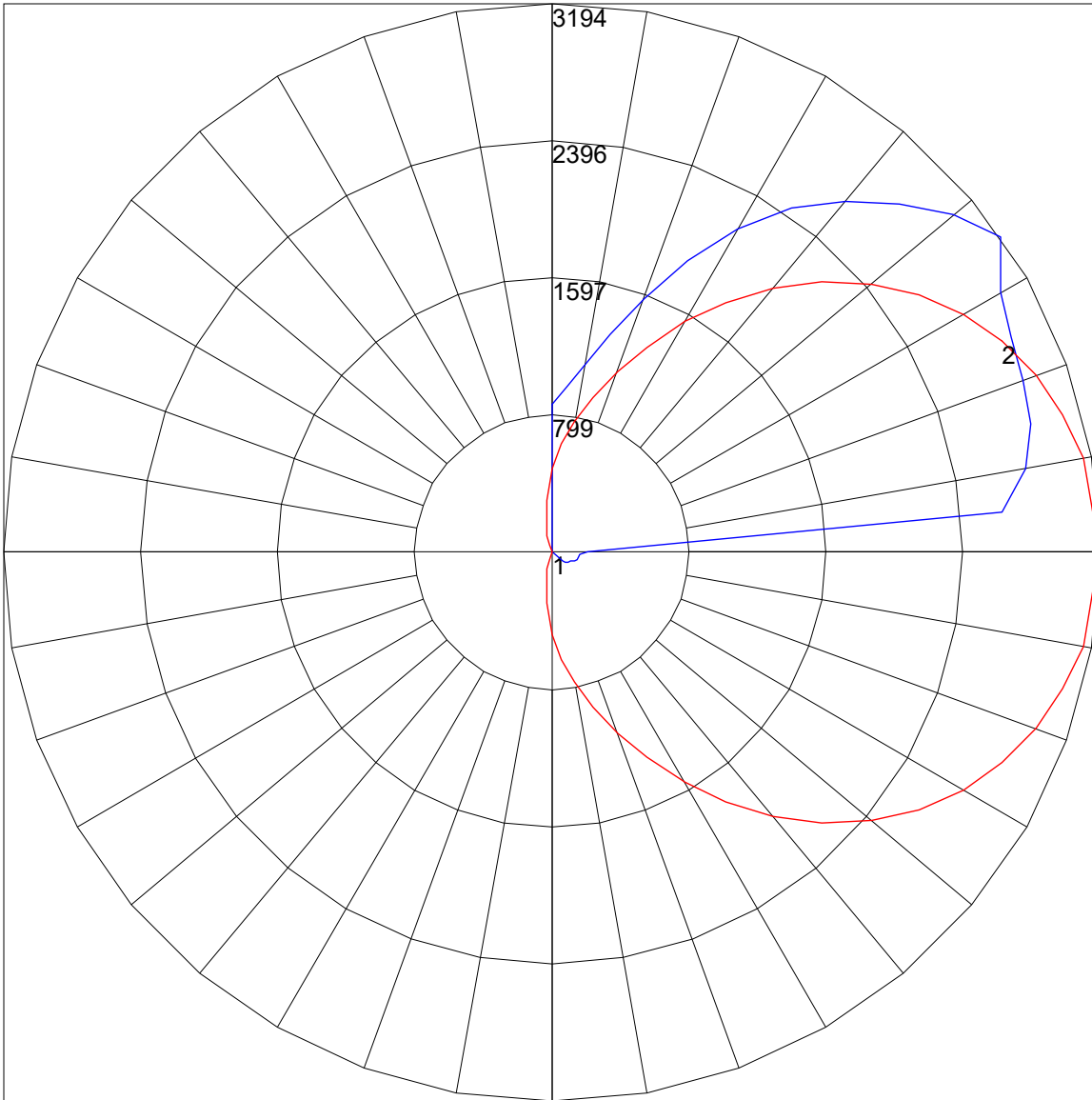
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z9_AC_HO_35_C1_IN COVE.IES

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	
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	24	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 = 3194.4 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.)