

IES Report

ZipWave® | 707 | Clear with EdgeSoft™, fixture in cove | 90 CRI | HO

707-Z9-4-48-AC / EL-XX-X-0-Z-HO-359-C1-0-AL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	88	91	93	97
Total Lumens, 4' rail length (1219mm)	4722	4871	4971	5070
Lumens per foot (305mm)	1181	1218	1243	1268
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	96	96	96	96

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_359_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-359-C1
 [LUMINAIRE] ZipWave LED, 48", Armstrong ceiling cove part no. AXIDLCKKE812, 3500K, 90 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	4971
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
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	10161	9422	0
65	13026	13761	0
75	16322	19450	0
85	18177	28615	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	72.2	72.2	70.3	68.4	68.4	66.5	62.7	58.9	55.1	47.5
55	83.6	83.6	83.6	83.6	81.7	79.8	76.0	72.2	66.5	60.8
60	96.9	96.9	95.0	95.0	93.1	91.2	89.3	85.5	79.8	74.1
65	108.3	108.3	106.4	106.4	106.4	106.4	102.6	98.8	93.1	87.4
70	119.7	119.7	117.8	117.8	117.8	115.9	114.0	112.1	108.3	102.6
75	133.0	133.0	131.1	131.1	131.1	129.2	125.4	121.6	119.7	117.8
80	138.7	138.7	138.7	142.5	142.5	144.4	140.6	140.6	138.7	136.8
85	140.6	142.5	144.4	152.0	155.8	159.6	161.5	163.4	161.5	159.6
90	178.6	203.3	286.9	659.3	254.6	562.4	410.4	247.0	475.0	499.7
95	2276.2	2114.7	1753.7	2090.0	1824.0	1985.5	1829.7	1704.3	1603.6	1385.1
100	2424.4	2407.3	2373.1	2333.2	2262.9	2179.3	2071.0	1938.0	1780.3	1601.7
105	2496.6	2475.7	2443.4	2403.5	2335.1	2243.9	2133.7	2002.6	1850.6	1673.9
110	2523.2	2509.9	2483.3	2433.9	2365.5	2280.0	2173.6	2052.0	1913.3	1772.7
115	2553.6	2542.2	2509.9	2460.5	2399.7	2327.5	2245.8	2154.6	2065.3	1962.7
120	2612.5	2601.1	2582.1	2557.4	2525.1	2479.5	2413.0	2316.1	2179.3	1993.1
125	2758.8	2726.5	2715.1	2661.9	2593.5	2504.2	2392.1	2259.1	2099.5	1922.8
130	2637.2	2623.9	2593.5	2546.0	2477.6	2386.4	2278.1	2152.7	2006.4	1844.9
135	2471.9	2466.2	2439.6	2395.9	2331.3	2251.5	2148.9	2033.0	1898.1	1749.9
140	2300.9	2293.3	2266.7	2226.8	2171.7	2090.0	2000.7	1892.4	1772.7	1637.8
145	2109.0	2097.6	2069.1	2031.1	1977.9	1911.4	1825.9	1730.9	1622.6	1504.8
150	1873.4	1867.7	1841.1	1806.9	1759.4	1700.5	1628.3	1546.6	1455.4	1360.4
155	1616.9	1609.3	1590.3	1559.9	1521.9	1474.4	1415.5	1354.7	1288.2	1210.3
160	1354.7	1350.9	1339.5	1320.5	1292.0	1259.7	1219.8	1172.3	1128.6	1083.0
165	1130.5	1130.5	1121.0	1109.6	1096.3	1077.3	1054.5	1027.9	999.4	969.0
170	957.6	957.6	953.8	950.0	942.4	932.9	923.4	910.1	896.8	881.6
175	834.1	834.1	834.1	830.3	828.4	824.6	822.7	817.0	813.2	807.5
180	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7

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	38.0	24.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	53.2	43.7	30.4	5.7	0.0	0.0	0.0	0.0	0.0	0.0
60	66.5	58.9	47.5	32.3	3.8	0.0	0.0	0.0	0.0	0.0

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CANDELA TABULATION - (Cont.)

65	79.8	70.3	60.8	49.4	30.4	0.0	0.0	0.0	0.0	0.0
70	93.1	83.6	72.2	60.8	49.4	20.9	0.0	0.0	0.0	0.0
75	112.1	100.7	87.4	74.1	60.8	45.6	7.6	0.0	0.0	0.0
80	131.1	121.6	106.4	89.3	74.1	57.0	32.3	0.0	0.0	0.0
85	153.9	142.5	127.3	112.1	95.0	72.2	55.1	19.0	0.0	0.0
90	444.6	273.6	402.8	311.6	233.7	172.9	112.1	58.9	0.0	0.0
95	1202.7	1079.2	858.8	678.3	490.2	366.7	235.6	133.0	47.5	0.0
100	1402.2	1189.4	989.9	811.3	653.6	501.6	355.3	216.6	112.1	17.1
105	1485.8	1295.8	1126.7	969.0	805.6	625.1	448.4	298.3	180.5	76.0
110	1622.6	1472.5	1303.4	1102.0	889.2	693.5	518.7	366.7	243.2	129.2
115	1797.4	1580.8	1350.9	1128.6	931.0	744.8	575.7	433.2	300.2	167.2
120	1786.0	1567.5	1347.1	1136.2	953.8	782.8	627.0	494.0	372.4	197.6
125	1732.8	1533.3	1337.6	1138.1	967.1	807.5	665.0	545.3	418.0	258.4
130	1670.1	1489.6	1305.3	1128.6	965.2	820.8	697.3	596.6	476.9	294.5
135	1592.2	1426.9	1261.6	1102.0	953.8	830.3	725.8	632.7	535.8	357.2
140	1495.3	1349.0	1204.6	1065.9	932.9	836.0	746.7	668.8	547.2	402.8
145	1381.3	1257.8	1136.2	1022.2	915.8	834.1	760.0	697.3	611.8	456.0
150	1257.8	1162.8	1064.0	976.6	893.0	828.4	769.5	714.4	653.6	520.6
155	1141.9	1069.7	995.6	934.8	870.2	820.8	775.2	716.3	638.4	556.7
160	1031.7	980.4	936.7	891.1	845.5	811.3	777.1	735.3	655.5	575.7
165	938.6	910.1	879.7	847.4	822.7	798.0	773.3	750.5	689.7	625.1
170	862.6	845.5	828.4	813.2	799.9	782.8	767.6	752.4	718.2	670.7
175	801.8	796.1	788.5	780.9	775.2	767.6	760.0	752.4	739.1	714.4
180	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7

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	36.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115	83.6	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120	114.0	55.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	125.4	87.4	38.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	167.2	95.0	72.2	32.3	0.0	0.0	0.0	0.0	0.0	0.0
135	197.6	114.0	76.0	62.7	32.3	1.9	0.0	0.0	0.0	0.0

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CANDELA TABULATION - (Cont.)

140	254.6	144.4	89.3	64.6	55.1	36.1	13.3	0.0	0.0	0.0
145	305.9	191.9	117.8	79.8	57.0	47.5	41.8	24.7	11.4	0.0
150	366.7	254.6	169.1	100.7	74.1	51.3	39.9	36.1	30.4	24.7
155	431.3	317.3	228.0	165.3	108.3	74.1	58.9	43.7	30.4	26.6
160	495.9	406.6	317.3	229.9	180.5	138.7	100.7	66.5	55.1	45.6
165	560.5	495.9	427.5	361.0	296.4	235.6	184.3	159.6	134.9	114.0
170	623.2	575.7	530.1	486.4	442.7	402.8	364.8	328.7	296.4	267.9
175	687.8	663.1	638.4	615.6	592.8	571.9	551.0	533.9	516.8	501.6
180	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7

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	0.0	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	17.1	11.4	7.6	3.8	1.9	0.0	0.0
155	24.7	24.7	22.8	20.9	19.0	19.0	0.0
160	38.0	32.3	28.5	24.7	22.8	20.9	0.0
165	96.9	81.7	68.4	58.9	53.2	49.4	0.0
170	241.3	220.4	203.3	188.1	178.6	171.0	0.0
175	488.3	475.0	465.5	457.9	452.2	450.3	0.0
180	746.7	746.7	746.7	746.7	746.7	746.7	746.7

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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	25.38	N.A.	0.50
0-80	110.20	N.A.	2.20
0-90	202.28	N.A.	4.10
10-90	202.28	N.A.	4.10
20-40	0.00	N.A.	0.00
20-50	3.78	N.A.	0.10
40-70	60.21	N.A.	1.20
60-80	84.83	N.A.	1.70
70-80	50.00	N.A.	1.00
80-90	92.08	N.A.	1.90
90-110	1408.5	N.A.	28.30
90-120	2263.59	N.A.	45.50
90-130	3075.1	N.A.	61.90
90-150	4222.78	N.A.	85.00
90-180	4768.46	N.A.	95.90
110-180	3359.96	N.A.	67.60
0-180	4970.74	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	3.78
50-60	21.60
60-70	34.83
70-80	50.00
80-90	92.08
90-100	583.93
100-110	824.56
110-120	855.09
120-130	811.51
130-140	662.96
140-150	484.72
150-160	310.18
160-170	172.49
170-180	63.02

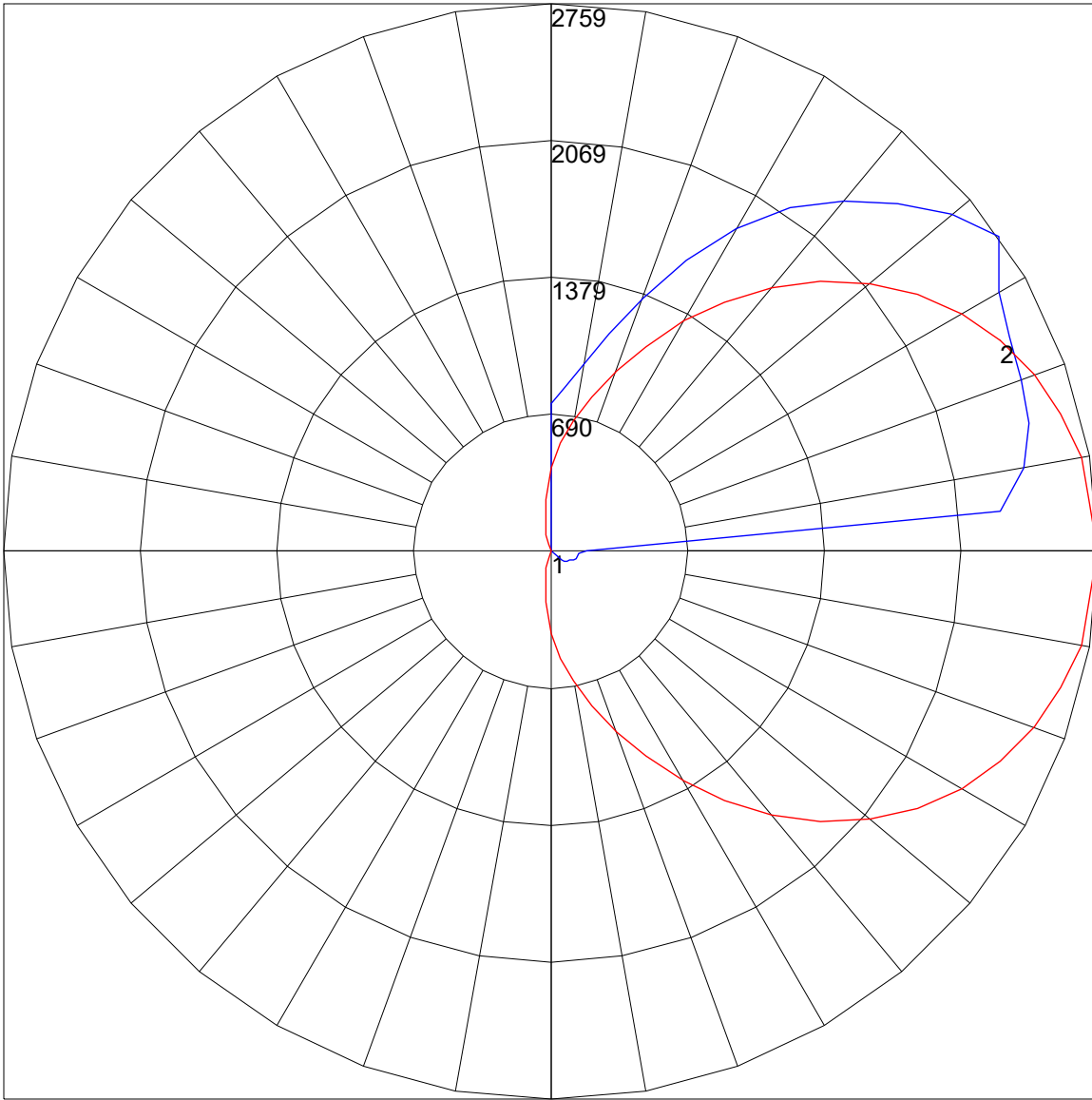
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z9_AC_HO_359_C1_IN COVE.IES

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 = 2758.8 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.)