

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	98	101	103	107
Total Lumens, 4' rail length (1219mm)	5216	5381	5490	5545
Lumens per foot (305mm)	1304	1345	1373	1386
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	94	94	94	94

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] 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-359-C1-AL

[LUMINAIRE] ZipWave LED, 48", Armstrong ceiling cove part no. AXIDLCCKE812, 3500K, 90 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	5490
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
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	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
5	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
10	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	17.1
15	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
20	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
25	17.1	17.1	17.1	17.1	17.1	17.1	17.1	19.0	19.0	19.0
30	17.1	17.1	17.1	17.1	17.1	17.1	19.0	19.0	19.0	19.0
35	24.7	24.7	24.7	24.7	22.8	22.8	20.9	20.9	20.9	20.9
40	49.4	49.4	47.5	43.7	41.8	36.1	32.3	28.5	26.6	24.7
45	64.6	64.6	64.6	62.7	58.9	57.0	55.1	47.5	39.9	32.3
50	83.6	83.6	81.7	79.8	76.0	72.2	68.4	64.6	58.9	51.3
55	100.7	100.7	98.8	96.9	95.0	91.2	87.4	81.7	72.2	66.5
60	117.8	117.8	115.9	114.0	112.1	108.3	104.5	98.8	91.2	83.6
65	131.1	131.1	129.2	129.2	127.3	127.3	121.6	115.9	110.2	100.7
70	146.3	146.3	144.4	142.5	140.6	142.5	138.7	134.9	129.2	119.7
75	161.5	161.5	159.6	157.7	155.8	153.9	155.8	153.9	148.2	138.7
80	174.8	174.8	172.9	171.0	171.0	169.1	174.8	174.8	169.1	163.4
85	182.4	182.4	182.4	186.2	191.9	193.8	195.7	193.8	191.9	184.3
90	184.3	186.2	193.8	203.3	203.3	214.7	210.9	220.4	214.7	207.1
95	446.5	685.9	1404.1	898.7	1347.1	1111.5	1162.8	1421.2	1453.5	1223.6
100	2737.9	2551.7	2627.7	2637.2	2538.4	2437.7	2319.9	2154.6	1968.4	1753.7
105	2865.2	2840.5	2810.1	2758.8	2673.3	2561.2	2422.5	2259.1	2071.0	1856.3
110	2916.5	2891.8	2863.3	2796.8	2707.5	2597.3	2462.4	2308.5	2141.3	1955.1
115	2924.1	2912.7	2878.5	2812.0	2737.9	2644.8	2528.9	2392.1	2234.4	2061.5
120	2952.6	2931.7	2899.4	2848.1	2777.8	2690.4	2578.3	2449.1	2291.4	2110.9
125	2954.5	2941.2	2918.4	2857.6	2787.3	2698.0	2585.9	2452.9	2291.4	2112.8
130	2914.6	2888.0	2859.5	2812.0	2741.7	2646.7	2534.6	2401.6	2242.0	2069.1
135	2806.3	2777.8	2745.5	2698.0	2627.7	2540.3	2424.4	2297.1	2148.9	1983.6
140	2616.3	2606.8	2580.2	2530.8	2470.0	2376.9	2274.3	2148.9	2014.0	1863.9
145	2394.0	2386.4	2356.0	2314.2	2255.3	2175.5	2078.6	1970.3	1850.6	1723.3
150	2135.6	2120.4	2095.7	2059.6	2008.3	1939.9	1860.1	1770.8	1672.0	1569.4
155	1848.7	1837.3	1818.3	1787.9	1746.1	1692.9	1632.1	1567.5	1493.4	1409.8
160	1567.5	1563.7	1550.4	1529.5	1501.0	1464.9	1423.1	1375.6	1326.2	1276.8
165	1331.9	1331.9	1320.5	1307.2	1292.0	1273.0	1248.3	1219.8	1187.5	1155.2
170	1145.7	1145.7	1141.9	1136.2	1126.7	1117.2	1105.8	1092.5	1077.3	1060.2
175	1007.0	1007.0	1007.0	999.4	991.8	982.3	972.8	959.5	946.2	931.0
180	742.9	742.9	742.9	742.9	742.9	742.9	742.9	742.9	742.9	742.9

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	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
5	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
10	17.1	17.1	17.1	17.1	17.1	17.1	17.1	15.2	15.2	15.2
15	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
20	17.1	17.1	19.0	19.0	19.0	19.0	17.1	17.1	17.1	17.1
25	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
30	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	19.0
35	20.9	22.8	22.8	22.8	22.8	22.8	20.9	20.9	20.9	20.9
40	24.7	24.7	24.7	24.7	22.8	22.8	22.8	22.8	20.9	20.9
45	28.5	26.6	26.6	26.6	26.6	26.6	24.7	24.7	24.7	20.9
50	39.9	34.2	30.4	28.5	26.6	28.5	28.5	26.6	24.7	22.8
55	58.9	45.6	36.1	32.3	30.4	28.5	28.5	28.5	24.7	22.8
60	74.1	64.6	49.4	38.0	34.2	32.3	30.4	30.4	26.6	22.8

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CANDELA TABULATION - (Cont.)

65	89.3	77.9	66.5	51.3	41.8	34.2	32.3	30.4	26.6	22.8
70	108.3	96.9	81.7	66.5	51.3	41.8	36.1	34.2	28.5	22.8
75	129.2	114.0	98.8	81.7	66.5	51.3	39.9	34.2	28.5	22.8
80	152.0	136.8	121.6	100.7	81.7	62.7	45.6	36.1	28.5	22.8
85	174.8	163.4	146.3	123.5	102.6	77.9	57.0	39.9	26.6	22.8
90	237.5	247.0	216.6	256.5	199.5	174.8	112.1	60.8	26.6	26.6
95	1008.9	980.4	815.1	691.6	505.4	374.3	241.3	140.6	76.0	47.5
100	1520.0	1280.6	1065.9	860.7	676.4	513.0	368.6	235.6	134.9	79.8
105	1630.2	1398.4	1193.2	1008.9	824.6	647.9	482.6	334.4	209.0	110.2
110	1755.6	1542.8	1328.1	1138.1	944.3	756.2	579.5	421.8	267.9	138.7
115	1865.8	1647.3	1426.9	1217.9	1029.8	837.9	657.4	509.2	334.4	172.9
120	1913.3	1700.5	1480.1	1265.4	1084.9	898.7	725.8	581.4	414.2	201.4
125	1917.1	1711.9	1504.8	1292.0	1113.4	940.5	780.9	651.7	450.3	252.7
130	1882.9	1687.2	1487.7	1293.9	1119.1	967.1	826.5	714.4	535.8	281.2
135	1810.7	1632.1	1449.7	1273.0	1109.6	982.3	866.4	737.2	537.7	345.8
140	1710.0	1550.4	1390.8	1238.8	1094.4	991.8	894.9	807.5	611.8	381.9
145	1588.4	1453.5	1322.4	1198.9	1081.1	995.6	913.9	824.6	670.7	440.8
150	1457.3	1354.7	1248.3	1155.2	1062.1	993.7	931.0	798.0	644.1	490.2
155	1335.7	1257.8	1178.0	1111.5	1041.2	988.0	938.6	843.6	695.4	552.9
160	1221.7	1164.7	1115.3	1065.9	1014.6	976.6	938.6	885.4	750.5	615.6
165	1121.0	1088.7	1056.4	1020.3	984.2	948.1	912.0	874.0	775.2	668.8
170	1041.2	1020.3	991.8	957.6	923.4	889.2	853.1	817.0	761.9	695.4
175	913.9	894.9	875.9	856.9	836.0	815.1	794.2	771.4	746.7	716.3
180	742.9	742.9	742.9	742.9	742.9	742.9	742.9	742.9	742.9	742.9

Vert. Horizontal Angles
Angles

	100	105	110	115	120	125	130	135	140	145
0	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
5	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
10	15.2	15.2	15.2	15.2	15.2	13.3	11.4	9.5	7.6	5.7
15	17.1	17.1	17.1	15.2	11.4	7.6	3.8	0.0	0.0	0.0
20	17.1	17.1	17.1	11.4	5.7	0.0	0.0	0.0	0.0	0.0
25	19.0	17.1	15.2	9.5	1.9	0.0	0.0	0.0	0.0	0.0
30	19.0	17.1	15.2	7.6	0.0	0.0	0.0	0.0	0.0	0.0
35	19.0	19.0	17.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0
40	19.0	19.0	19.0	7.6	0.0	0.0	0.0	0.0	0.0	0.0
45	20.9	19.0	19.0	7.6	0.0	0.0	0.0	0.0	0.0	0.0
50	20.9	20.9	19.0	11.4	0.0	0.0	0.0	0.0	0.0	0.0
55	20.9	20.9	20.9	15.2	0.0	0.0	0.0	0.0	0.0	0.0
60	20.9	20.9	19.0	19.0	5.7	0.0	0.0	0.0	0.0	0.0
65	20.9	20.9	19.0	19.0	11.4	0.0	0.0	0.0	0.0	0.0
70	20.9	20.9	20.9	19.0	17.1	1.9	0.0	0.0	0.0	0.0
75	20.9	20.9	20.9	19.0	19.0	9.5	0.0	0.0	0.0	0.0
80	20.9	20.9	20.9	20.9	19.0	19.0	1.9	0.0	0.0	0.0
85	20.9	22.8	20.9	20.9	20.9	20.9	13.3	0.0	0.0	0.0
90	26.6	24.7	24.7	22.8	22.8	22.8	20.9	9.5	0.0	0.0
95	32.3	30.4	28.5	26.6	24.7	24.7	22.8	20.9	9.5	0.0
100	51.3	43.7	36.1	32.3	28.5	26.6	26.6	24.7	22.8	9.5
105	70.3	55.1	45.6	38.0	34.2	30.4	28.5	26.6	24.7	22.8
110	89.3	66.5	53.2	45.6	39.9	36.1	32.3	28.5	26.6	24.7
115	100.7	77.9	62.7	53.2	45.6	39.9	34.2	32.3	28.5	26.6
120	119.7	85.5	68.4	57.0	49.4	43.7	38.0	32.3	30.4	26.6
125	127.3	95.0	76.0	62.7	53.2	45.6	39.9	36.1	32.3	28.5
130	161.5	100.7	77.9	66.5	57.0	49.4	41.8	38.0	34.2	30.4
135	184.3	117.8	83.6	68.4	58.9	49.4	43.7	36.1	34.2	30.4

IES INDOOR REPORT

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CANDELA TABULATION - (Cont.)

140	233.7	138.7	95.0	72.2	62.7	53.2	45.6	38.0	34.2	30.4
145	279.3	176.7	110.2	81.7	62.7	53.2	45.6	38.0	34.2	32.3
150	340.1	226.1	148.2	89.3	70.3	53.2	43.7	38.0	32.3	30.4
155	418.0	292.6	197.6	142.5	95.0	68.4	55.1	43.7	32.3	30.4
160	484.5	383.8	288.8	197.6	153.9	117.8	83.6	51.3	43.7	36.1
165	564.3	463.6	389.5	323.0	260.3	203.3	155.8	131.1	110.2	91.2
170	627.0	562.4	497.8	435.1	387.6	351.5	317.3	286.9	256.5	229.9
175	685.9	655.5	625.1	596.6	570.0	545.3	520.6	499.7	478.8	459.8
180	742.9	742.9	742.9	742.9	742.9	742.9	742.9	742.9	742.9	742.9

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	15.2	15.2	15.2	15.2	15.2	15.2	15.2
5	15.2	15.2	15.2	15.2	15.2	15.2	15.2
10	3.8	3.8	1.9	1.9	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	15.2	3.8	0.0	0.0	0.0	0.0	0.0
110	22.8	20.9	15.2	7.6	3.8	0.0	0.0
115	22.8	20.9	20.9	19.0	17.1	1.9	0.0
120	24.7	22.8	20.9	19.0	19.0	0.0	0.0
125	24.7	22.8	20.9	20.9	15.2	0.0	0.0
130	26.6	24.7	22.8	20.9	11.4	0.0	0.0
135	26.6	24.7	22.8	20.9	9.5	0.0	0.0
140	26.6	24.7	22.8	20.9	7.6	0.0	0.0
145	28.5	24.7	22.8	22.8	20.9	20.9	19.0
150	28.5	26.6	22.8	22.8	20.9	20.9	20.9
155	28.5	26.6	24.7	22.8	20.9	20.9	20.9
160	32.3	28.5	26.6	24.7	22.8	22.8	22.8
165	76.0	62.7	53.2	45.6	39.9	36.1	34.2
170	205.2	186.2	169.1	157.7	148.2	142.5	140.6
175	444.6	429.4	418.0	408.5	400.9	397.1	395.2
180	742.9	742.9	742.9	742.9	742.9	742.9	742.9

IES INDOOR REPORT**PHOTOMETRIC FILENAME : VODE_707_Z9_AC_HO_359_C1_IN COVE.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4.69	N.A.	0.10
0-30	10.12	N.A.	0.20
0-40	19.24	N.A.	0.40
0-60	68.97	N.A.	1.30
0-80	182.95	N.A.	3.30
0-90	273.58	N.A.	5.00
10-90	272.23	N.A.	5.00
20-40	14.55	N.A.	0.30
20-50	32.76	N.A.	0.60
40-70	97.48	N.A.	1.80
60-80	113.98	N.A.	2.10
70-80	66.22	N.A.	1.20
80-90	90.63	N.A.	1.70
90-110	1424.04	N.A.	25.90
90-120	2385.18	N.A.	43.40
90-130	3288.94	N.A.	59.90
90-150	4599.62	N.A.	83.80
90-180	5216.76	N.A.	95.00
110-180	3792.72	N.A.	69.10
0-180	5490.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.35
10-20	3.34
20-30	5.43
30-40	9.12
40-50	18.21
50-60	31.51
60-70	47.76
70-80	66.22
80-90	90.63
90-100	492.82
100-110	931.22
110-120	961.13
120-130	903.76
130-140	755.50
140-150	555.18
150-160	354.27
160-170	195.32
170-180	67.56

IES INDOOR REPORT

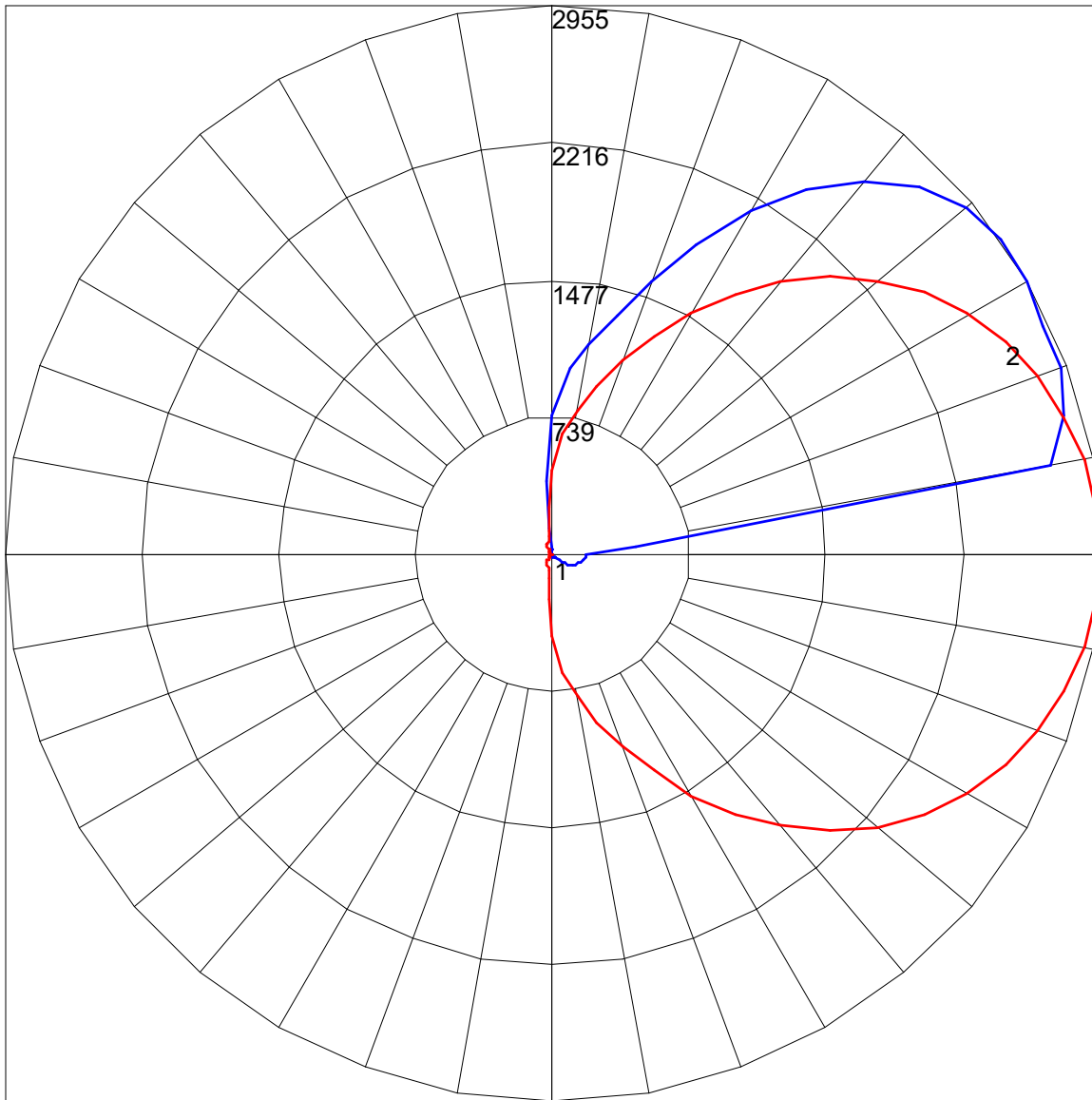
PHOTOMETRIC FILENAME : VODE_707_Z9_AC_HO_359_C1_IN COVE.IES

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	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 = 2954.5 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.)