

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	121	125	128	128
Total Lumens, 4' rail length (1219mm)	3184	3285	3352	3352
Lumens per foot (305mm)	796	821	838	838
Input Power (W), 4' rail length (1219mm)	26.4	26.4	26.4	26.4
Watts per foot (305mm)	6.6	6.6	6.6	6.6
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_SO_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-SO-35-C1-AL

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

[MORE] clear lens w/edgesoft, standard 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	3352
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	26.39
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	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28
5	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28
10	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	10.44
15	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44
20	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44
25	10.44	10.44	10.44	10.44	10.44	10.44	10.44	11.60	11.60	11.60
30	10.44	10.44	10.44	10.44	10.44	10.44	11.60	11.60	11.60	11.60
35	15.08	15.08	15.08	15.08	13.92	13.92	12.76	12.76	12.76	12.76
40	30.16	30.16	29.00	26.68	25.52	22.04	19.72	17.40	16.24	15.08
45	39.44	39.44	39.44	38.28	35.96	34.80	33.64	29.00	24.36	19.72
50	51.04	51.04	49.88	48.72	46.40	44.08	41.76	39.44	35.96	31.32
55	61.48	61.48	60.32	59.16	58.00	55.68	53.36	49.88	44.08	40.60
60	71.92	71.92	70.76	69.60	68.44	66.12	63.80	60.32	55.68	51.04
65	80.04	80.04	78.88	78.88	77.72	77.72	74.24	70.76	67.28	61.48
70	89.32	89.32	88.16	87.00	85.84	87.00	84.68	82.36	78.88	73.08
75	98.60	98.60	97.44	96.28	95.12	93.96	95.12	93.96	90.48	84.68
80	106.72	106.72	105.56	104.40	104.40	103.24	106.72	106.72	103.24	99.76
85	111.36	111.36	111.36	113.68	117.16	118.32	119.48	118.32	117.16	112.52
90	112.52	113.68	118.32	124.12	124.12	131.08	128.76	134.56	131.08	126.44
95	272.60	418.76	857.24	548.68	822.44	678.60	709.92	867.68	887.40	747.04
100	1671.56	1557.88	1604.28	1610.08	1549.76	1488.28	1416.36	1315.44	1201.76	1070.68
105	1749.28	1734.20	1715.64	1684.32	1632.12	1563.68	1479.00	1379.24	1264.40	1133.32
110	1780.60	1765.52	1748.12	1707.52	1653.00	1585.72	1503.36	1409.40	1307.32	1193.64
115	1785.24	1778.28	1757.40	1716.80	1671.56	1614.72	1543.96	1460.44	1364.16	1258.60
120	1802.64	1789.88	1770.16	1738.84	1695.92	1642.56	1574.12	1495.24	1398.96	1288.76
125	1803.80	1795.68	1781.76	1744.64	1701.72	1647.20	1578.76	1497.56	1398.96	1289.92
130	1779.44	1763.20	1745.80	1716.80	1673.88	1615.88	1547.44	1466.24	1368.80	1263.24
135	1713.32	1695.92	1676.20	1647.20	1604.28	1550.92	1480.16	1402.44	1311.96	1211.04
140	1597.32	1591.52	1575.28	1545.12	1508.00	1451.16	1388.52	1311.96	1229.60	1137.96
145	1461.60	1456.96	1438.40	1412.88	1376.92	1328.20	1269.04	1202.92	1129.84	1052.12
150	1303.84	1294.56	1279.48	1257.44	1226.12	1184.36	1135.64	1081.12	1020.80	958.16
155	1128.68	1121.72	1110.12	1091.56	1066.04	1033.56	996.44	957.00	911.76	860.72
160	957.00	954.68	946.56	933.80	916.40	894.36	868.84	839.84	809.68	779.52
165	813.16	813.16	806.20	798.08	788.80	777.20	762.12	744.72	725.00	705.28
170	699.48	699.48	697.16	693.68	687.88	682.08	675.12	667.00	657.72	647.28
175	614.80	614.80	614.80	610.16	605.52	599.72	593.92	585.80	577.68	568.40
180	453.56	453.56	453.56	453.56	453.56	453.56	453.56	453.56	453.56	453.56

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	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28
5	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28
10	10.44	10.44	10.44	10.44	10.44	10.44	10.44	9.28	9.28	9.28
15	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44
20	10.44	10.44	11.60	11.60	11.60	11.60	10.44	10.44	10.44	10.44
25	11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60
30	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	11.60
35	12.76	13.92	13.92	13.92	13.92	13.92	12.76	12.76	12.76	12.76
40	15.08	15.08	15.08	15.08	13.92	13.92	13.92	13.92	12.76	12.76
45	17.40	16.24	16.24	16.24	16.24	16.24	15.08	15.08	15.08	12.76
50	24.36	20.88	18.56	17.40	16.24	17.40	17.40	16.24	15.08	13.92
55	35.96	27.84	22.04	19.72	18.56	17.40	17.40	17.40	15.08	13.92
60	45.24	39.44	30.16	23.20	20.88	19.72	18.56	18.56	16.24	13.92

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CANDELA TABULATION - (Cont.)

65	54.52	47.56	40.60	31.32	25.52	20.88	19.72	18.56	16.24	13.92
70	66.12	59.16	49.88	40.60	31.32	25.52	22.04	20.88	17.40	13.92
75	78.88	69.60	60.32	49.88	40.60	31.32	24.36	20.88	17.40	13.92
80	92.80	83.52	74.24	61.48	49.88	38.28	27.84	22.04	17.40	13.92
85	106.72	99.76	89.32	75.40	62.64	47.56	34.80	24.36	16.24	13.92
90	145.00	150.80	132.24	156.60	121.80	106.72	68.44	37.12	16.24	16.24
95	615.96	598.56	497.64	422.24	308.56	228.52	147.32	85.84	46.40	29.00
100	928.00	781.84	650.76	525.48	412.96	313.20	225.04	143.84	82.36	48.72
105	995.28	853.76	728.48	615.96	503.44	395.56	294.64	204.16	127.60	67.28
110	1071.84	941.92	810.84	694.84	576.52	461.68	353.80	257.52	163.56	84.68
115	1139.12	1005.72	871.16	743.56	628.72	511.56	401.36	310.88	204.16	105.56
120	1168.12	1038.20	903.64	772.56	662.36	548.68	443.12	354.96	252.88	122.96
125	1170.44	1045.16	918.72	788.80	679.76	574.20	476.76	397.88	274.92	154.28
130	1149.56	1030.08	908.28	789.96	683.24	590.44	504.60	436.16	327.12	171.68
135	1105.48	996.44	885.08	777.20	677.44	599.72	528.96	450.08	328.28	211.12
140	1044.00	946.56	849.12	756.32	668.16	605.52	546.36	493.00	373.52	233.16
145	969.76	887.40	807.36	731.96	660.04	607.84	557.96	503.44	409.48	269.12
150	889.72	827.08	762.12	705.28	648.44	606.68	568.40	487.20	393.24	299.28
155	815.48	767.92	719.20	678.60	635.68	603.20	573.04	515.04	424.56	337.56
160	745.88	711.08	680.92	650.76	619.44	596.24	573.04	540.56	458.20	375.84
165	684.40	664.68	644.96	622.92	600.88	578.84	556.80	533.60	473.28	408.32
170	635.68	622.92	605.52	584.64	563.76	542.88	520.84	498.80	465.16	424.56
175	557.96	546.36	534.76	523.16	510.40	497.64	484.88	470.96	455.88	437.32
180	453.56	453.56	453.56	453.56	453.56	453.56	453.56	453.56	453.56	453.56

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28
5	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28	9.28
10	9.28	9.28	9.28	9.28	9.28	8.12	6.96	5.80	4.64	3.48
15	10.44	10.44	10.44	9.28	6.96	4.64	2.32	0.00	0.00	0.00
20	10.44	10.44	10.44	6.96	3.48	0.00	0.00	0.00	0.00	0.00
25	11.60	10.44	9.28	5.80	1.16	0.00	0.00	0.00	0.00	0.00
30	11.60	10.44	9.28	4.64	0.00	0.00	0.00	0.00	0.00	0.00
35	11.60	11.60	10.44	3.48	0.00	0.00	0.00	0.00	0.00	0.00
40	11.60	11.60	11.60	4.64	0.00	0.00	0.00	0.00	0.00	0.00
45	12.76	11.60	11.60	4.64	0.00	0.00	0.00	0.00	0.00	0.00
50	12.76	12.76	11.60	6.96	0.00	0.00	0.00	0.00	0.00	0.00
55	12.76	12.76	12.76	9.28	0.00	0.00	0.00	0.00	0.00	0.00
60	12.76	12.76	11.60	11.60	3.48	0.00	0.00	0.00	0.00	0.00
65	12.76	12.76	11.60	11.60	6.96	0.00	0.00	0.00	0.00	0.00
70	12.76	12.76	12.76	11.60	10.44	1.16	0.00	0.00	0.00	0.00
75	12.76	12.76	12.76	11.60	11.60	5.80	0.00	0.00	0.00	0.00
80	12.76	12.76	12.76	12.76	11.60	11.60	1.16	0.00	0.00	0.00
85	12.76	13.92	12.76	12.76	12.76	12.76	8.12	0.00	0.00	0.00
90	16.24	15.08	15.08	13.92	13.92	13.92	12.76	5.80	0.00	0.00
95	19.72	18.56	17.40	16.24	15.08	15.08	13.92	12.76	5.80	0.00
100	31.32	26.68	22.04	19.72	17.40	16.24	16.24	15.08	13.92	5.80
105	42.92	33.64	27.84	23.20	20.88	18.56	17.40	16.24	15.08	13.92
110	54.52	40.60	32.48	27.84	24.36	22.04	19.72	17.40	16.24	15.08
115	61.48	47.56	38.28	32.48	27.84	24.36	20.88	19.72	17.40	16.24
120	73.08	52.20	41.76	34.80	30.16	26.68	23.20	19.72	18.56	16.24
125	77.72	58.00	46.40	38.28	32.48	27.84	24.36	22.04	19.72	17.40
130	98.60	61.48	47.56	40.60	34.80	30.16	25.52	23.20	20.88	18.56
135	112.52	71.92	51.04	41.76	35.96	30.16	26.68	22.04	20.88	18.56

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CANDELA TABULATION - (Cont.)

140	142.68	84.68	58.00	44.08	38.28	32.48	27.84	23.20	20.88	18.56
145	170.52	107.88	67.28	49.88	38.28	32.48	27.84	23.20	20.88	19.72
150	207.64	138.04	90.48	54.52	42.92	32.48	26.68	23.20	19.72	18.56
155	255.20	178.64	120.64	87.00	58.00	41.76	33.64	26.68	19.72	18.56
160	295.80	234.32	176.32	120.64	93.96	71.92	51.04	31.32	26.68	22.04
165	344.52	283.04	237.80	197.20	158.92	124.12	95.12	80.04	67.28	55.68
170	382.80	343.36	303.92	265.64	236.64	214.60	193.72	175.16	156.60	140.36
175	418.76	400.20	381.64	364.24	348.00	332.92	317.84	305.08	292.32	280.72
180	453.56	453.56	453.56	453.56	453.56	453.56	453.56	453.56	453.56	453.56

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	9.28	9.28	9.28	9.28	9.28	9.28	9.28
5	9.28	9.28	9.28	9.28	9.28	9.28	9.28
10	2.32	2.32	1.16	1.16	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	9.28	2.32	0.00	0.00	0.00	0.00	0.00
110	13.92	12.76	9.28	4.64	2.32	0.00	0.00
115	13.92	12.76	12.76	11.60	10.44	1.16	0.00
120	15.08	13.92	12.76	11.60	11.60	0.00	0.00
125	15.08	13.92	12.76	12.76	9.28	0.00	0.00
130	16.24	15.08	13.92	12.76	6.96	0.00	0.00
135	16.24	15.08	13.92	12.76	5.80	0.00	0.00
140	16.24	15.08	13.92	12.76	4.64	0.00	0.00
145	17.40	15.08	13.92	13.92	12.76	12.76	11.60
150	17.40	16.24	13.92	13.92	12.76	12.76	12.76
155	17.40	16.24	15.08	13.92	12.76	12.76	12.76
160	19.72	17.40	16.24	15.08	13.92	13.92	13.92
165	46.40	38.28	32.48	27.84	24.36	22.04	20.88
170	125.28	113.68	103.24	96.28	90.48	87.00	85.84
175	271.44	262.16	255.20	249.40	244.76	242.44	241.28
180	453.56	453.56	453.56	453.56	453.56	453.56	453.56

IES INDOOR REPORT**PHOTOMETRIC FILENAME : VODE_707_Z9_AC_SO_35_C1_IN COVE.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2.86	N.A.	0.10
0-30	6.18	N.A.	0.20
0-40	11.75	N.A.	0.40
0-60	42.11	N.A.	1.30
0-80	111.69	N.A.	3.30
0-90	167.03	N.A.	5.00
10-90	166.20	N.A.	5.00
20-40	8.89	N.A.	0.30
20-50	20.00	N.A.	0.60
40-70	59.52	N.A.	1.80
60-80	69.59	N.A.	2.10
70-80	40.43	N.A.	1.20
80-90	55.33	N.A.	1.70
90-110	869.42	N.A.	25.90
90-120	1456.21	N.A.	43.40
90-130	2007.99	N.A.	59.90
90-150	2808.19	N.A.	83.80
90-180	3184.97	N.A.	95.00
110-180	2315.55	N.A.	69.10
0-180	3352.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.82
10-20	2.04
20-30	3.32
30-40	5.57
40-50	11.12
50-60	19.24
60-70	29.16
70-80	40.43
80-90	55.33
90-100	300.88
100-110	568.54
110-120	586.80
120-130	551.77
130-140	461.25
140-150	338.95
150-160	216.29
160-170	119.25
170-180	41.25

IES INDOOR REPORT

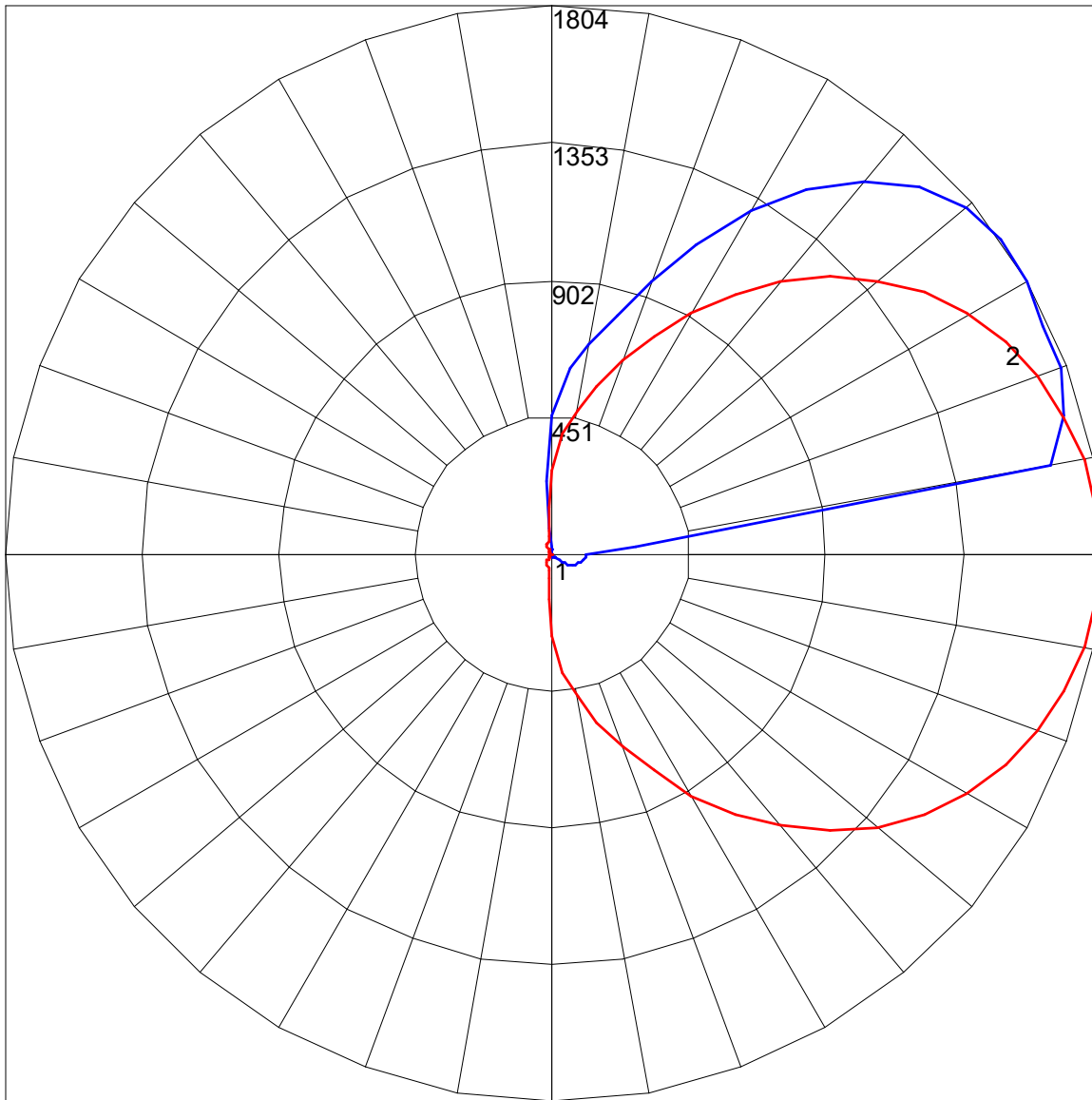
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 1803.8 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.)