

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	109	113	115	117
Total Lumens, 4' rail length (1219mm)	2883	2974	3035	3095
Lumens per foot (305mm)	721	744	759	774
Input Power (W), 4' rail length (1219mm)	26.5	26.5	26.5	26.5
Watts per foot (305mm)	6.7	6.7	6.7	6.7
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_SO_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-SO-35-C1
 [LUMINAIRE] ZipWave LED, 48", Armstrong ceiling cove part no. AXIDLCKKE812, 3500K, 80 CRI,
 [MORE] zipper board, clear lens w/edge softening, standard output
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3035
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	26.46
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	6204	5752	0
65	7953	8401	0
75	9965	11875	0
85	11097	17470	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z9_AC_SO_35_C1_IN COVE.IES

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	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	0.00	0.00	0.00
25	0.00	0.00	0.00	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	0.00	0.00	0.00
35	0.00	0.00	0.00	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	0.00	0.00	0.00
45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	44.08	44.08	42.92	41.76	41.76	40.60	38.28	35.96	33.64	29.00
55	51.04	51.04	51.04	51.04	49.88	48.72	46.40	44.08	40.60	37.12
60	59.16	59.16	58.00	58.00	56.84	55.68	54.52	52.20	48.72	45.24
65	66.12	66.12	64.96	64.96	64.96	64.96	62.64	60.32	56.84	53.36
70	73.08	73.08	71.92	71.92	71.92	70.76	69.60	68.44	66.12	62.64
75	81.20	81.20	80.04	80.04	80.04	78.88	76.56	74.24	73.08	71.92
80	84.68	84.68	84.68	87.00	87.00	88.16	85.84	85.84	84.68	83.52
85	85.84	87.00	88.16	92.80	95.12	97.44	98.60	99.76	98.60	97.44
90	109.04	124.12	175.16	402.52	155.44	343.36	250.56	150.80	290.00	305.08
95	1389.68	1291.08	1070.68	1276.00	1113.60	1212.20	1117.08	1040.52	979.04	845.64
100	1480.16	1469.72	1448.84	1424.48	1381.56	1330.52	1264.40	1183.20	1086.92	977.88
105	1524.24	1511.48	1491.76	1467.40	1425.64	1369.96	1302.68	1222.64	1129.84	1021.96
110	1540.48	1532.36	1516.12	1485.96	1444.20	1392.00	1327.04	1252.80	1168.12	1082.28
115	1559.04	1552.08	1532.36	1502.20	1465.08	1421.00	1371.12	1315.44	1260.92	1198.28
120	1595.00	1588.04	1576.44	1561.36	1541.64	1513.80	1473.20	1414.04	1330.52	1216.84
125	1684.32	1664.60	1657.64	1625.16	1583.40	1528.88	1460.44	1379.24	1281.80	1173.92
130	1610.08	1601.96	1583.40	1554.40	1512.64	1456.96	1390.84	1314.28	1224.96	1126.36
135	1509.16	1505.68	1489.44	1462.76	1423.32	1374.60	1311.96	1241.20	1158.84	1068.36
140	1404.76	1400.12	1383.88	1359.52	1325.88	1276.00	1221.48	1155.36	1082.28	999.92
145	1287.60	1280.64	1263.24	1240.04	1207.56	1166.96	1114.76	1056.76	990.64	918.72
150	1143.76	1140.28	1124.04	1103.16	1074.16	1038.20	994.12	944.24	888.56	830.56
155	987.16	982.52	970.92	952.36	929.16	900.16	864.20	827.08	786.48	738.92
160	827.08	824.76	817.80	806.20	788.80	769.08	744.72	715.72	689.04	661.20
165	690.20	690.20	684.40	677.44	669.32	657.72	643.80	627.56	610.16	591.60
170	584.64	584.64	582.32	580.00	575.36	569.56	563.76	555.64	547.52	538.24
175	509.24	509.24	509.24	506.92	505.76	503.44	502.28	498.80	496.48	493.00
180	455.88	455.88	455.88	455.88	455.88	455.88	455.88	455.88	455.88	455.88

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	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	0.00	0.00	0.00
25	0.00	0.00	0.00	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	0.00	0.00	0.00
35	0.00	0.00	0.00	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	0.00	0.00	0.00
45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	23.20	15.08	2.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	32.48	26.68	18.56	3.48	0.00	0.00	0.00	0.00	0.00	0.00
60	40.60	35.96	29.00	19.72	2.32	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z9_AC_SO_35_C1_IN COVE.IES

CANDELA TABULATION - (Cont.)

65	48.72	42.92	37.12	30.16	18.56	0.00	0.00	0.00	0.00	0.00
70	56.84	51.04	44.08	37.12	30.16	12.76	0.00	0.00	0.00	0.00
75	68.44	61.48	53.36	45.24	37.12	27.84	4.64	0.00	0.00	0.00
80	80.04	74.24	64.96	54.52	45.24	34.80	19.72	0.00	0.00	0.00
85	93.96	87.00	77.72	68.44	58.00	44.08	33.64	11.60	0.00	0.00
90	271.44	167.04	245.92	190.24	142.68	105.56	68.44	35.96	0.00	0.00
95	734.28	658.88	524.32	414.12	299.28	223.88	143.84	81.20	29.00	0.00
100	856.08	726.16	604.36	495.32	399.04	306.24	216.92	132.24	68.44	10.44
105	907.12	791.12	687.88	591.60	491.84	381.64	273.76	182.12	110.20	46.40
110	990.64	899.00	795.76	672.80	542.88	423.40	316.68	223.88	148.48	78.88
115	1097.36	965.12	824.76	689.04	568.40	454.72	351.48	264.48	183.28	102.08
120	1090.40	957.00	822.44	693.68	582.32	477.92	382.80	301.60	227.36	120.64
125	1057.92	936.12	816.64	694.84	590.44	493.00	406.00	332.92	255.20	157.76
130	1019.64	909.44	796.92	689.04	589.28	501.12	425.72	364.24	291.16	179.80
135	972.08	871.16	770.24	672.80	582.32	506.92	443.12	386.28	327.12	218.08
140	912.92	823.60	735.44	650.76	569.56	510.40	455.88	408.32	334.08	245.92
145	843.32	767.92	693.68	624.08	559.12	509.24	464.00	425.72	373.52	278.40
150	767.92	709.92	649.60	596.24	545.20	505.76	469.80	436.16	399.04	317.84
155	697.16	653.08	607.84	570.72	531.28	501.12	473.28	437.32	389.76	339.88
160	629.88	598.56	571.88	544.04	516.20	495.32	474.44	448.92	400.20	351.48
165	573.04	555.64	537.08	517.36	502.28	487.20	472.12	458.20	421.08	381.64
170	526.64	516.20	505.76	496.48	488.36	477.92	468.64	459.36	438.48	409.48
175	489.52	486.04	481.40	476.76	473.28	468.64	464.00	459.36	451.24	436.16
180	455.88	455.88	455.88	455.88	455.88	455.88	455.88	455.88	455.88	455.88

Vert. Angles **Horizontal Angles**

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	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	0.00	0.00	0.00
25	0.00	0.00	0.00	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	0.00	0.00	0.00
35	0.00	0.00	0.00	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	0.00	0.00	0.00
45	0.00	0.00	0.00	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	0.00	0.00	0.00
55	0.00	0.00	0.00	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	0.00	0.00	0.00
65	0.00	0.00	0.00	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	0.00	0.00	0.00
75	0.00	0.00	0.00	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	0.00	0.00	0.00
85	0.00	0.00	0.00	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	0.00	0.00	0.00
95	0.00	0.00	0.00	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	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	22.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	51.04	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	69.60	33.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	76.56	53.36	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	102.08	58.00	44.08	19.72	0.00	0.00	0.00	0.00	0.00	0.00
135	120.64	69.60	46.40	38.28	19.72	1.16	0.00	0.00	0.00	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z9_AC_SO_35_C1_IN COVE.IES

CANDELA TABULATION - (Cont.)

140	155.44	88.16	54.52	39.44	33.64	22.04	8.12	0.00	0.00	0.00
145	186.76	117.16	71.92	48.72	34.80	29.00	25.52	15.08	6.96	0.00
150	223.88	155.44	103.24	61.48	45.24	31.32	24.36	22.04	18.56	15.08
155	263.32	193.72	139.20	100.92	66.12	45.24	35.96	26.68	18.56	16.24
160	302.76	248.24	193.72	140.36	110.20	84.68	61.48	40.60	33.64	27.84
165	342.20	302.76	261.00	220.40	180.96	143.84	112.52	97.44	82.36	69.60
170	380.48	351.48	323.64	296.96	270.28	245.92	222.72	200.68	180.96	163.56
175	419.92	404.84	389.76	375.84	361.92	349.16	336.40	325.96	315.52	306.24
180	455.88	455.88	455.88	455.88	455.88	455.88	455.88	455.88	455.88	455.88

Vert. Horizontal Angles

Angles	150	155	160	165	170	175	180
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	10.44	6.96	4.64	2.32	1.16	0.00	0.00
155	15.08	15.08	13.92	12.76	11.60	11.60	0.00
160	23.20	19.72	17.40	15.08	13.92	12.76	0.00
165	59.16	49.88	41.76	35.96	32.48	30.16	0.00
170	147.32	134.56	124.12	114.84	109.04	104.40	0.00
175	298.12	290.00	284.20	279.56	276.08	274.92	0.00
180	455.88	455.88	455.88	455.88	455.88	455.88	455.88

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z9_AC_SO_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	15.49	N.A.	0.50
0-80	67.28	N.A.	2.20
0-90	123.50	N.A.	4.10
10-90	123.50	N.A.	4.10
20-40	0.00	N.A.	0.00
20-50	2.30	N.A.	0.10
40-70	36.76	N.A.	1.20
60-80	51.79	N.A.	1.70
70-80	30.53	N.A.	1.00
80-90	56.22	N.A.	1.90
90-110	859.93	N.A.	28.30
90-120	1381.98	N.A.	45.50
90-130	1877.43	N.A.	61.90
90-150	2578.12	N.A.	85.00
90-180	2911.27	N.A.	95.90
110-180	2051.34	N.A.	67.60
0-180	3034.77	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	2.30
50-60	13.19
60-70	21.26
70-80	30.53
80-90	56.22
90-100	356.51
100-110	503.42
110-120	522.06
120-130	495.45
130-140	404.75
140-150	295.94
150-160	189.37
160-170	105.31
170-180	38.47

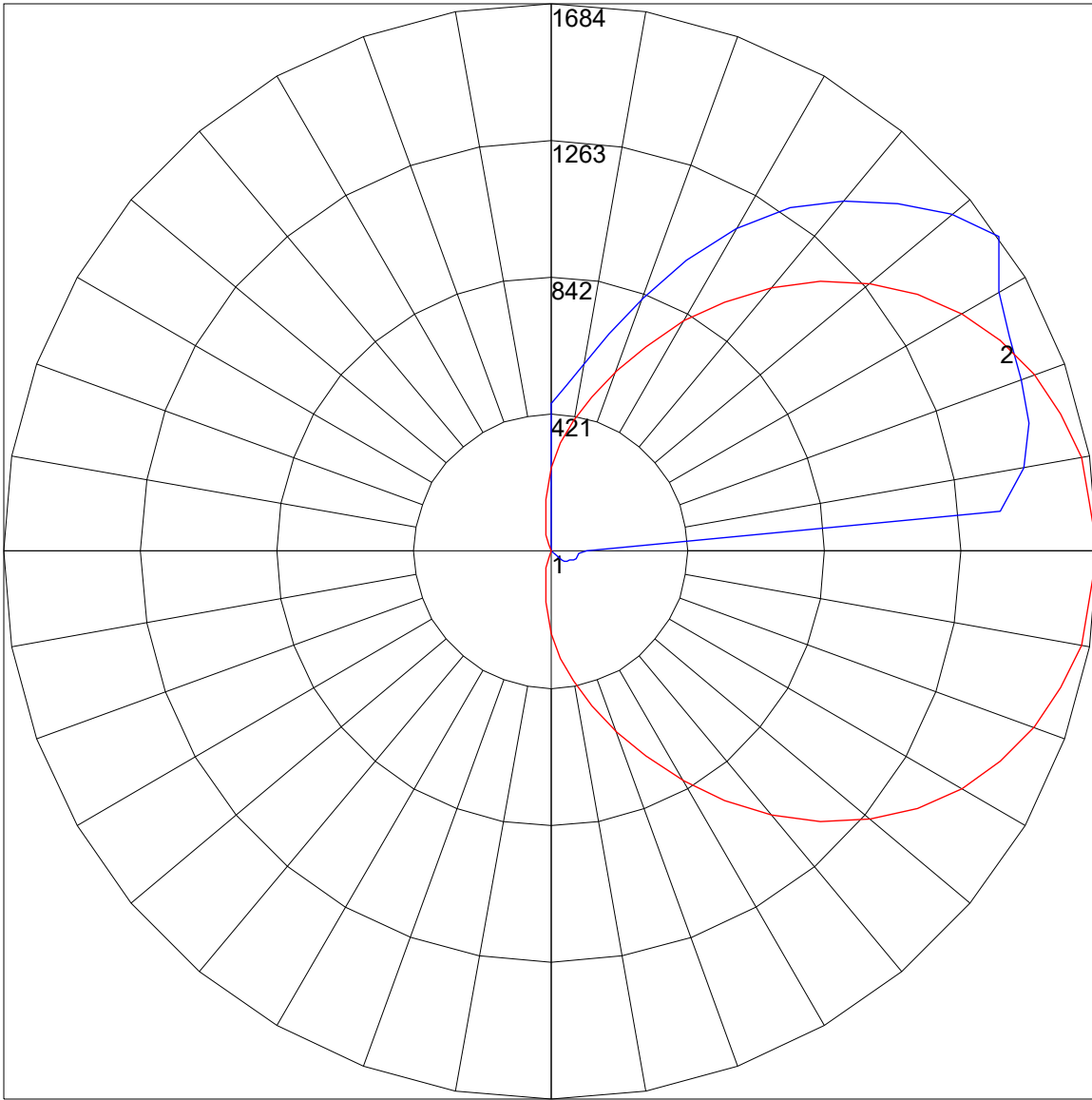
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z9_AC_SO_35_C1_IN COVE.IES

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 = 1684.32 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.)