

IES Report

ZipWave® | 707 | Clear with EdgeSoft™ | 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	113	117	119	121
Total Lumens, 4' rail length (1219mm)	2973	3067	3130	3192
Lumens per foot (305mm)	743	767	782	798
Input Power (W), 4' rail length (1219mm)	26.4	26.4	26.4	26.4
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.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L101707601 (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", ceiling cove, 3500K, 80 CRI, zipper board,
[MORE] 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	3130
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	26.43
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
Luminous Length (0-180)	0.08 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

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	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	8.12	8.12	13.92	19.72	25.52	32.48	39.44	46.40	55.68	70.76
100	728.48	755.16	827.08	921.04	1004.56	1048.64	1038.20	991.80	924.52	839.84
105	1328.20	1323.56	1308.48	1285.28	1252.80	1207.56	1154.20	1089.24	1012.68	926.84
110	1373.44	1368.80	1353.72	1331.68	1300.36	1258.60	1207.56	1142.60	1063.72	975.56
115	1403.60	1397.80	1386.20	1361.84	1328.20	1286.44	1236.56	1175.08	1104.32	1026.60
120	1418.68	1412.88	1402.44	1380.40	1350.24	1313.12	1266.72	1215.68	1161.16	1118.24
125	1436.08	1431.44	1422.16	1404.76	1380.40	1356.04	1332.84	1315.44	1285.28	1216.84
130	1502.20	1501.04	1497.56	1492.92	1481.32	1458.12	1417.52	1357.20	1278.32	1191.32
135	1537.00	1532.36	1518.44	1496.40	1462.76	1421.00	1367.64	1305.00	1230.76	1151.88
140	1458.12	1453.48	1440.72	1419.84	1387.36	1349.08	1301.52	1243.52	1177.40	1106.64
145	1368.80	1364.16	1352.56	1332.84	1305.00	1270.20	1227.28	1176.24	1117.08	1052.12
150	1267.88	1264.40	1253.96	1235.40	1209.88	1179.72	1141.44	1096.20	1042.84	987.16
155	1150.72	1147.24	1137.96	1121.72	1099.68	1073.00	1040.52	1001.08	957.00	910.60
160	1015.00	1011.52	1004.56	991.80	974.40	952.36	926.84	896.80	861.88	827.08
165	871.16	868.84	864.20	854.92	842.16	827.08	809.68	788.80	766.76	742.40
170	735.44	734.28	731.96	726.16	719.20	711.08	701.80	690.20	676.28	663.52
175	621.76	621.76	620.60	618.28	615.96	612.48	609.00	604.36	599.72	593.92
180	535.92	535.92	535.92	535.92	535.92	535.92	535.92	535.92	535.92	535.92

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	0.00	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

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

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	97.44	180.96	290.00	314.36	245.92	175.16	109.04	73.08	29.00	20.88
100	742.40	638.00	525.48	408.32	317.84	241.28	201.84	131.08	82.36	47.56
105	825.92	712.24	595.08	487.20	411.80	361.92	266.80	186.76	126.44	90.48
110	880.44	776.04	678.60	621.76	537.08	408.32	322.48	240.12	177.48	134.56
115	947.72	881.60	829.40	709.92	582.32	464.00	368.88	291.16	226.20	180.96
120	1086.92	998.76	870.00	736.60	614.80	503.44	412.96	337.56	273.76	227.36
125	1117.08	998.76	875.80	754.00	641.48	538.24	452.40	380.48	317.84	272.60
130	1093.88	986.00	875.80	764.44	662.36	566.08	486.04	417.60	358.44	313.20
135	1064.88	968.60	867.68	767.92	675.12	588.12	513.88	450.08	393.24	351.48
140	1027.76	941.92	852.60	764.44	680.92	603.20	535.92	477.92	425.72	385.12
145	982.52	907.12	828.24	751.68	679.76	611.32	552.16	499.96	452.40	415.28
150	926.84	861.88	795.76	730.80	670.48	612.48	562.60	517.36	475.60	443.12
155	860.72	808.52	755.16	702.96	655.40	609.00	567.24	528.96	495.32	466.32
160	789.96	750.52	711.08	671.64	635.68	599.72	568.40	538.24	510.40	487.20
165	716.88	691.36	664.68	638.00	612.48	588.12	564.92	542.88	523.16	504.60
170	649.60	634.52	619.44	603.20	588.12	573.04	557.96	544.04	531.28	518.52
175	588.12	582.32	575.36	569.56	562.60	555.64	548.68	542.88	535.92	528.96
180	535.92	535.92	535.92	535.92	535.92	535.92	535.92	535.92	535.92	535.92

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	20.88	20.88	20.88	20.88	20.88	20.88	20.88	20.88	20.88	20.88
100	51.04	49.88	47.56	46.40	44.08	42.92	42.92	41.76	41.76	40.60
105	82.36	83.52	82.36	78.88	75.40	73.08	70.76	69.60	67.28	66.12
110	112.52	116.00	116.00	113.68	110.20	106.72	103.24	99.76	97.44	96.28
115	151.96	145.00	148.48	147.32	145.00	141.52	138.04	133.40	131.08	127.60
120	194.88	175.16	176.32	177.48	177.48	175.16	171.68	168.20	164.72	162.40
125	236.64	212.28	200.68	203.00	205.32	205.32	203.00	200.68	197.20	194.88
130	277.24	250.56	232.00	226.20	228.52	229.68	230.84	229.68	227.36	226.20
135	315.52	287.68	267.96	254.04	249.40	251.72	252.88	254.04	252.88	252.88

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

140	351.48	323.64	302.76	286.52	274.92	270.28	271.44	272.60	273.76	273.76
145	385.12	358.44	336.40	320.16	306.24	296.96	291.16	288.84	290.00	291.16
150	414.12	389.76	368.88	352.64	337.56	327.12	319.00	312.04	307.40	305.08
155	440.80	418.76	399.04	383.96	370.04	358.44	349.16	341.04	335.24	330.60
160	465.16	446.60	429.20	414.12	401.36	390.92	381.64	373.52	366.56	360.76
165	487.20	472.12	457.04	445.44	433.84	424.56	415.28	408.32	401.36	395.56
170	506.92	495.32	484.88	475.60	466.32	459.36	452.40	446.60	440.80	436.16
175	523.16	517.36	511.56	506.92	501.12	496.48	493.00	489.52	486.04	482.56
180	535.92	535.92	535.92	535.92	535.92	535.92	535.92	535.92	535.92	535.92

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	0.00	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	20.88	20.88	20.88	20.88	19.72	19.72	19.72
100	40.60	39.44	39.44	39.44	38.28	38.28	38.28
105	64.96	63.80	63.80	62.64	62.64	61.48	61.48
110	93.96	92.80	91.64	90.48	89.32	89.32	89.32
115	125.28	124.12	121.80	120.64	119.48	119.48	118.32
120	158.92	156.60	155.44	153.12	151.96	151.96	151.96
125	192.56	190.24	187.92	186.76	185.60	184.44	184.44
130	223.88	221.56	220.40	219.24	218.08	216.92	216.92
135	251.72	250.56	249.40	248.24	247.08	247.08	247.08
140	273.76	273.76	273.76	272.60	272.60	272.60	272.60
145	292.32	292.32	292.32	292.32	292.32	292.32	292.32
150	303.92	305.08	306.24	306.24	306.24	306.24	307.40
155	327.12	323.64	322.48	321.32	320.16	319.00	319.00
160	356.12	352.64	350.32	348.00	346.84	345.68	345.68
165	392.08	387.44	383.96	381.64	380.48	379.32	379.32
170	431.52	428.04	425.72	423.40	422.24	421.08	419.92
175	480.24	477.92	475.60	474.44	473.28	473.28	473.28
180	535.92	535.92	535.92	535.92	535.92	535.92	535.92

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z9_AC_SO_35_C1.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	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	597.64	N.A.	19.10
90-120	1139.31	N.A.	36.40
90-130	1698.66	N.A.	54.30
90-150	2626.64	N.A.	83.90
90-180	3129.68	N.A.	100.00
110-180	2532.05	N.A.	80.90
0-180	3129.68	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	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	129.51
100-110	468.12
110-120	541.68
120-130	559.35
130-140	516.36
140-150	411.62
150-160	287.35
160-170	163.60
170-180	52.10

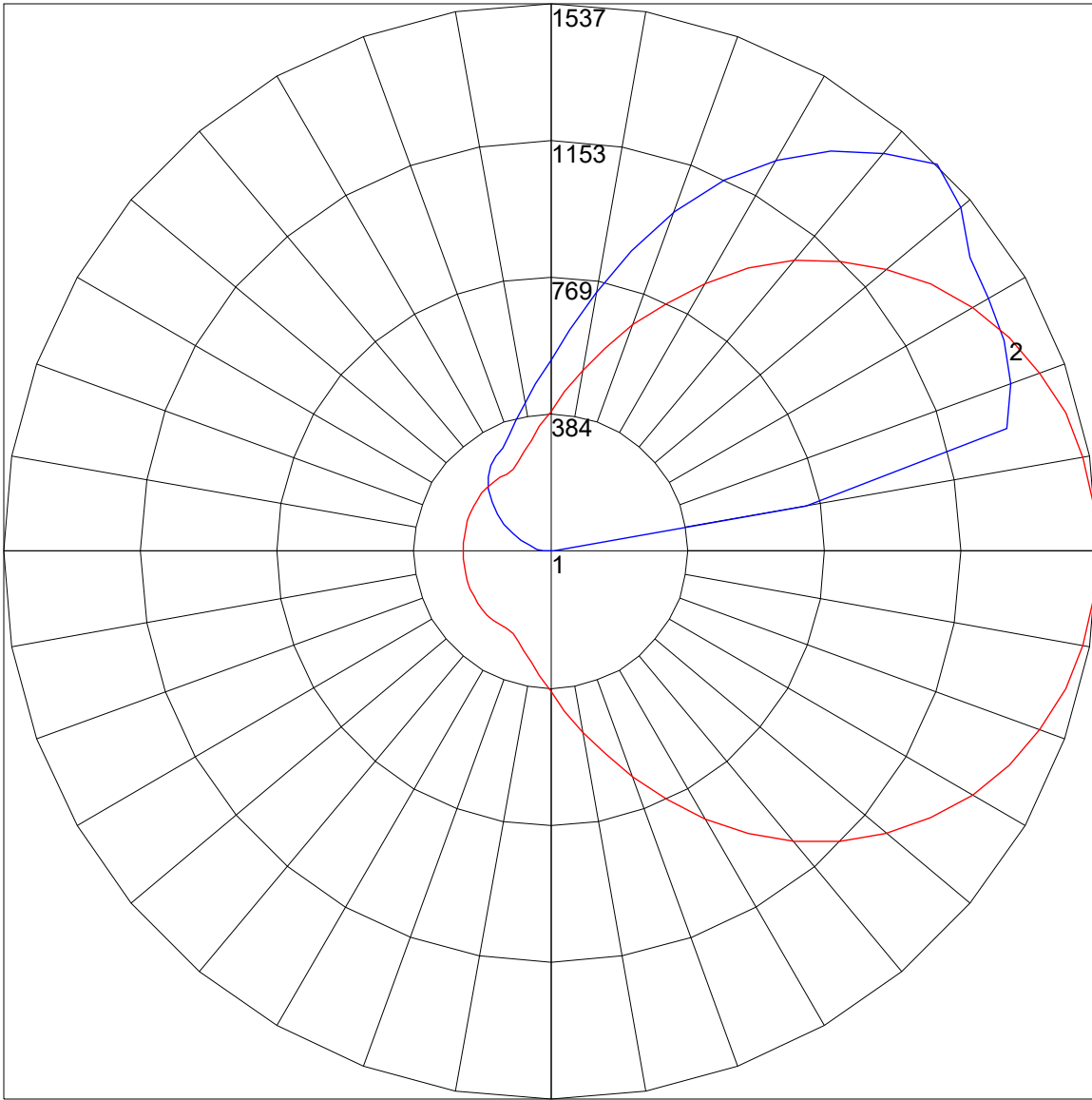
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 1537 Located At Horizontal Angle = 0, Vertical Angle = 135
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (135) (Through Max. Cd.)