

IES Report

ZipOne® | 707 | 100° Asymmetric | 80 CRI | LO

707-Z1-4-48-X-XX-X-0-Z-LO-35-A2-X-AL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	98	101	103	103
Total Lumens, 4' rail length (1219mm)	1589	1639	1673	1673
Lumens per foot (305mm)	397	410	418	418
Input Power (W), 4' rail length (1219mm)	16.3	16.3	16.3	16.3
Watts per foot (305mm)	4.1	4.1	4.1	4.1
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_Z1_LO_35_A2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911522 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z1-48-Z-LO-35-A2-AL

[LUMINAIRE] ZipOne LED, 48", 3500K, 80 CRI, zipper board,

[MORE] 100° asymmetric lens, low 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	1673
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	14.89
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.44
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.06 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	37898	36384	29181
55	36065	33971	25410
65	32694	30160	20766
75	28559	25532	15945
85	25773	21277	10189

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PHOTOMETRIC FILENAME : VODE_707_Z1_LO_35_A2.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	744.72	744.72	744.72	744.72	744.72	744.72	744.72	744.72	744.72	744.72
5	776.04	776.04	774.88	774.88	773.72	773.14	771.98	770.82	769.08	766.76
10	793.44	793.44	792.28	791.70	791.12	789.38	787.64	785.32	783.00	780.10
15	795.18	795.18	794.60	794.02	792.28	791.12	788.80	787.06	783.58	780.68
20	784.74	784.16	783.58	783.58	781.84	780.68	778.36	776.04	773.14	770.24
25	763.86	763.86	763.28	762.70	761.54	759.80	758.06	755.74	752.26	748.78
30	734.86	734.28	734.28	733.12	731.96	730.22	727.90	725.58	722.10	719.20
35	697.16	696.58	696.00	694.84	693.10	690.78	688.46	686.14	682.66	678.60
40	650.18	650.18	649.02	647.86	645.54	643.80	640.90	637.42	633.36	629.30
45	595.08	594.50	593.34	592.18	589.86	586.96	583.48	580.00	575.94	571.30
50	530.70	530.12	528.96	527.22	524.90	522.00	518.52	514.46	509.82	504.60
55	459.36	458.78	457.62	455.88	453.56	450.08	446.60	441.96	437.90	432.68
60	383.96	383.38	382.22	380.48	378.16	375.26	371.78	367.14	362.50	357.86
65	306.82	306.82	305.66	303.92	301.60	299.28	295.80	292.32	287.68	283.04
70	232.58	232.58	231.42	230.26	227.94	225.62	222.72	219.24	215.76	211.70
75	164.14	164.14	162.98	161.82	160.08	158.34	156.02	153.12	149.64	146.74
80	101.50	101.50	100.92	99.76	98.60	96.86	95.12	93.38	90.48	88.16
85	49.88	49.88	49.88	48.72	48.14	46.98	45.82	44.08	42.34	41.18
90	16.82	16.82	16.24	16.24	15.66	15.08	13.92	13.34	12.76	11.60
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	0.00	0.00	0.00	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	0.00	0.00	0.00
120	0.00	0.00	0.00	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	0.00	0.00	0.00
130	0.00	0.00	0.00	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	0.00	0.00	0.00
140	0.00	0.00	0.00	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	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	744.72	744.72	744.72	744.72	744.72	744.72	744.72	744.72	744.72	744.72
5	765.02	763.28	760.96	758.06	755.16	752.26	748.78	745.88	742.40	738.92
10	776.62	773.14	769.08	764.44	759.22	753.42	746.46	740.66	733.12	725.00
15	776.62	772.56	766.76	760.38	754.00	746.46	737.18	727.90	716.88	704.70
20	765.60	760.96	755.16	748.20	740.66	730.80	719.78	707.60	693.10	676.28
25	744.72	740.08	733.70	726.74	718.04	707.02	694.84	679.76	661.78	640.90
30	714.56	709.34	703.54	696.00	686.72	675.12	661.20	644.38	622.92	597.98
35	674.54	669.32	662.94	655.40	646.12	633.94	618.86	599.72	574.78	546.94
40	624.66	619.44	613.06	605.52	596.24	583.48	567.24	546.94	520.26	488.94
45	566.08	560.86	553.90	546.36	536.50	523.74	508.08	486.62	458.20	425.72
50	499.38	493.58	486.62	479.08	469.22	457.04	440.22	419.34	392.66	357.86
55	426.88	421.08	414.12	406.58	397.30	385.70	369.46	349.16	323.64	291.16
60	352.06	346.26	339.30	331.76	323.06	312.04	297.54	279.56	256.36	228.52

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PHOTOMETRIC FILENAME : VODE_707_Z1_LO_35_A2.IES

CANDELA TABULATION - (Cont.)

65	277.82	272.60	266.22	259.26	251.14	241.28	228.52	213.44	194.88	172.26
70	207.06	202.42	197.20	191.98	185.02	176.32	166.46	153.70	139.20	122.96
75	143.26	139.20	134.56	129.92	124.70	118.32	110.78	102.08	91.64	80.62
80	85.26	82.36	78.88	75.98	71.92	67.28	62.64	56.84	51.04	45.24
85	39.44	37.12	35.38	33.06	30.74	27.84	25.52	22.62	19.72	17.98
90	11.02	9.86	8.70	7.54	6.38	4.64	2.90	1.74	1.16	1.16
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	0.00	0.00	0.00	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	0.00	0.00	0.00
120	0.00	0.00	0.00	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	0.00	0.00	0.00
130	0.00	0.00	0.00	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	0.00	0.00	0.00
140	0.00	0.00	0.00	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	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles
Angles

	100	105	110	115	120	125	130	135	140	145
0	744.72	744.72	744.72	744.72	744.72	744.72	744.72	744.72	744.72	744.72
5	735.44	731.96	728.48	725.00	721.52	718.04	715.14	711.66	708.76	706.44
10	717.46	708.76	700.64	691.94	683.24	675.12	666.42	658.30	650.76	643.80
15	692.52	678.60	664.10	649.60	633.36	618.86	604.36	589.28	575.94	563.18
20	658.30	639.16	618.28	596.24	574.20	552.16	530.70	508.66	489.52	470.96
25	618.28	592.18	564.34	535.34	504.60	476.18	448.34	421.08	397.30	375.26
30	569.56	537.66	502.86	468.06	430.94	396.72	365.40	335.82	309.14	287.68
35	513.88	476.18	436.74	397.30	356.12	320.16	288.26	258.10	234.32	215.18
40	452.40	411.22	368.30	327.12	285.94	251.72	221.56	196.04	175.16	159.50
45	387.44	345.10	301.60	262.16	223.88	193.72	168.78	147.32	131.08	118.90
50	320.16	279.56	240.70	205.32	174.00	148.48	127.60	111.36	99.76	89.90
55	256.94	220.98	187.34	157.18	132.82	113.10	97.44	85.26	75.98	69.60
60	198.36	170.52	142.68	120.06	100.92	85.84	74.24	65.54	59.16	53.94
65	149.64	127.60	106.72	88.74	75.40	64.38	55.68	49.30	44.66	41.18
70	106.14	90.48	75.98	64.38	53.94	47.56	40.60	36.54	33.06	30.16
75	70.18	59.74	50.46	42.92	36.54	31.32	27.84	24.94	22.62	20.88
80	39.44	34.22	29.00	24.94	21.46	18.56	16.82	15.08	13.34	12.76
85	15.66	13.92	12.18	10.44	9.28	8.70	7.54	6.96	6.38	5.80
90	1.74	1.74	1.74	1.74	1.74	1.16	1.16	1.16	1.16	1.16
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	0.00	0.00	0.00	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	0.00	0.00	0.00
120	0.00	0.00	0.00	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	0.00	0.00	0.00
130	0.00	0.00	0.00	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	0.00	0.00	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z1_LO_35_A2.IES

CANDELA TABULATION - (Cont.)

140	0.00	0.00	0.00	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	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	744.72	744.72	744.72	744.72	744.72	744.72	744.72
5	703.54	701.80	700.06	698.90	697.74	697.16	696.58
10	637.42	631.62	626.98	623.50	620.60	618.86	618.86
15	552.16	542.30	534.18	527.22	522.58	519.68	518.52
20	454.72	440.80	429.78	420.50	414.12	410.06	408.90
25	356.12	341.04	328.28	317.84	310.88	306.82	305.08
30	269.12	253.46	241.28	232.00	225.62	222.14	220.98
35	198.94	186.18	175.74	168.20	162.98	160.08	158.92
40	146.16	136.30	128.76	122.96	119.48	117.16	116.58
45	109.62	102.08	96.86	92.80	89.90	88.74	88.16
50	82.94	78.30	74.24	71.34	69.60	68.44	68.44
55	64.38	60.90	58.00	55.68	54.52	53.94	53.36
60	49.88	47.56	45.24	44.08	42.92	42.34	42.34
65	38.28	36.54	34.80	33.64	33.06	32.48	32.48
70	28.42	26.68	25.52	24.94	24.36	23.78	23.78
75	19.14	18.56	17.40	16.82	16.82	16.24	16.24
80	11.60	11.02	11.02	10.44	10.44	9.86	9.86
85	5.80	5.22	5.22	5.22	5.22	4.64	4.64
90	1.16	1.16	1.16	1.16	1.16	1.16	1.16
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	262.74	N.A.	15.70
0-30	535.21	N.A.	32.00
0-40	838.99	N.A.	50.20
0-60	1375.76	N.A.	82.20
0-80	1642.29	N.A.	98.20
0-90	1671.25	N.A.	99.90
10-90	1601.32	N.A.	95.70
20-40	576.25	N.A.	34.40
20-50	868.63	N.A.	51.90
40-70	709.13	N.A.	42.40
60-80	266.52	N.A.	15.90
70-80	94.16	N.A.	5.60
80-90	28.96	N.A.	1.70
90-110	1.65	N.A.	0.10
90-120	1.65	N.A.	0.10
90-130	1.65	N.A.	0.10
90-150	1.65	N.A.	0.10
90-180	1.65	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1672.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	69.93
10-20	192.81
20-30	272.47
30-40	303.78
40-50	292.39
50-60	244.39
60-70	172.36
70-80	94.16
80-90	28.96
90-100	1.65
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

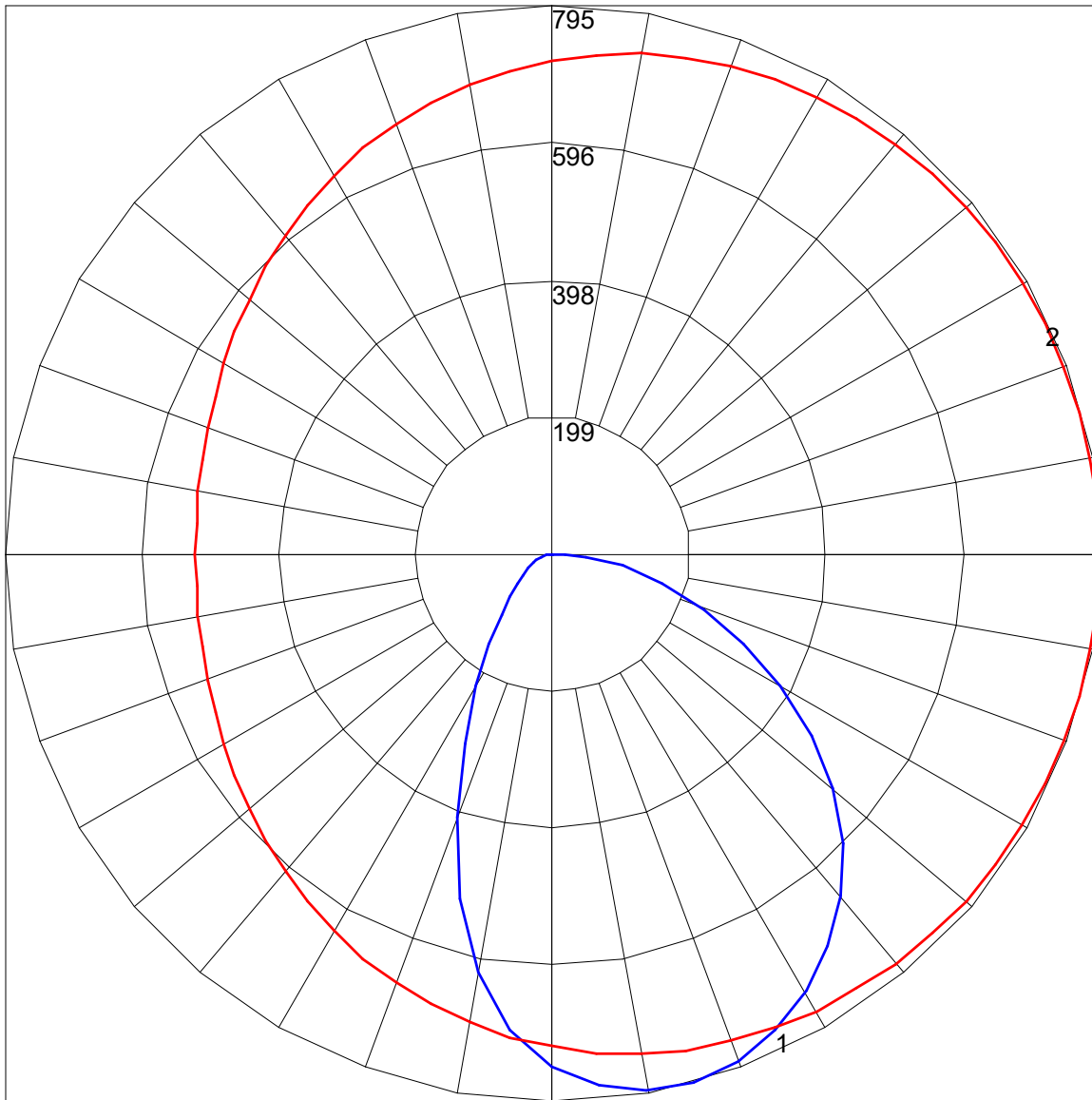
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PHOTOMETRIC FILENAME : VODE_707_Z1_LO_35_A2.IES

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	92	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	64	58	69	62	57	67	61	56	65	59	55	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	46
6	72	59	51	44	70	58	50	44	57	49	44	55	48	43	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	35	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 795.18 Located At Horizontal Angle = 0, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)