

IES Report

ZipThree® | 707 | Symmetric, up | 85° Asymmetric , down | 80 CRI | LO

707-Z3-4-48-XX-XX-X-0-Z-LO-35-U1A1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	106	109	111	111
Total Lumens, 4' rail length (1219mm)	3127	3226	3292	3292
Lumens per foot (305mm)	782	806	823	823
Lumens per foot UP (305mm)	457	472	481	481
Lumens per foot DOWN (305mm)	324	335	341	341
Input Power (W), 4' rail length (1219mm)	29.8	29.8	29.8	29.8
Watts per foot (305mm)	7.5	7.5	7.5	7.5
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_Z3_LO_35_U1A1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010917 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z3-48-Z-LO-35-U1A1-BL

[LUMINAIRE] ZipThree LED, 48", 3500K, 80 CRI, zipper board, symmetric lens

[MORE] up/85° asymmetric lens down, low output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3292
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	29.78
Ballast Factor	1.00
CIE Type	General Diffuse
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)	0.17 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.02 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9553	9897	9184
55	7884	8380	7931
65	5940	6400	6280
75	4034	4386	4510
85	1985	2124	2601

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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	654.82	654.82	654.82	654.82	654.82	654.82	654.82	654.82	654.82	654.82
5	677.44	677.44	676.86	676.86	676.28	675.70	674.54	673.96	672.80	671.06
10	689.62	689.62	689.62	689.04	687.88	687.30	685.56	684.40	682.66	680.34
15	689.62	689.04	689.04	688.46	687.88	686.72	684.98	683.24	681.50	678.60
20	678.60	678.02	678.02	677.44	676.28	675.70	673.96	672.22	670.48	667.58
25	658.30	657.72	657.72	657.14	656.56	655.40	654.24	652.50	650.76	648.44
30	628.72	628.72	628.72	628.14	627.56	626.40	625.24	624.08	622.34	620.02
35	589.28	589.28	589.28	589.28	588.70	588.12	587.54	586.38	584.64	582.90
40	537.66	537.66	537.66	538.24	538.24	538.24	538.24	537.66	537.08	535.92
45	475.02	475.02	475.60	475.60	476.18	477.34	477.92	478.50	478.50	478.50
50	404.84	404.84	405.42	406.00	406.58	407.74	408.90	410.06	410.64	411.80
55	332.34	332.34	332.92	333.50	334.08	335.24	336.40	337.56	338.72	339.88
60	262.16	262.16	262.74	262.74	263.90	264.48	265.06	266.22	267.38	268.54
65	197.78	197.78	197.78	198.36	198.36	198.94	199.52	200.68	201.26	201.84
70	142.10	142.10	142.68	142.68	142.68	143.26	143.26	143.84	143.84	144.42
75	94.54	94.54	94.54	94.54	94.54	94.54	94.54	94.54	94.54	94.54
80	55.68	55.68	55.68	55.68	55.68	55.10	55.10	55.10	54.52	54.52
85	25.52	25.52	25.52	25.52	24.94	24.94	24.36	24.36	23.78	23.20
90	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
95	24.36	24.36	24.36	24.36	24.36	24.36	24.36	24.36	24.36	24.36
100	55.10	55.10	55.10	55.10	55.68	55.68	55.68	56.26	56.26	56.84
105	93.38	93.38	93.38	93.96	93.96	94.54	95.12	95.70	96.28	96.86
110	138.62	138.62	139.20	139.78	140.36	140.94	142.10	142.68	143.84	145.00
115	191.98	191.98	192.56	193.14	193.72	194.88	196.04	197.20	198.94	200.10
120	251.72	251.72	252.30	252.88	253.46	255.20	256.36	258.10	259.84	261.58
125	316.10	316.10	316.68	317.84	319.00	320.16	321.90	323.64	325.38	327.70
130	383.96	383.96	384.54	385.70	386.86	388.02	389.76	391.50	393.82	395.56
135	451.82	451.82	452.40	453.56	454.72	455.88	457.62	459.36	461.68	463.42
140	517.36	517.36	517.94	518.52	519.68	520.84	522.58	523.74	525.48	527.22
145	576.52	577.10	577.68	578.26	578.84	580.00	581.16	582.32	583.48	585.22
150	628.72	628.72	629.30	629.88	630.46	631.04	631.62	632.78	633.36	633.94
155	672.22	672.22	672.22	672.80	673.38	673.38	673.96	674.54	675.12	675.12
160	705.86	705.86	705.86	705.86	705.86	706.44	706.44	706.44	706.44	707.02
165	730.22	730.22	730.22	730.22	730.22	730.22	730.22	730.22	730.22	730.22
170	746.46	746.46	746.46	746.46	746.46	746.46	746.46	746.46	746.46	746.46
175	754.58	754.58	754.58	754.58	754.58	754.58	754.58	754.58	754.58	754.58
180	755.74	755.74	755.74	755.74	755.74	755.74	755.74	755.74	755.74	755.74

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	654.82	654.82	654.82	654.82	654.82	654.82	654.82	654.82	654.82	654.82
5	669.90	668.16	666.42	664.68	662.36	660.04	657.72	655.40	653.08	650.76
10	678.02	675.12	671.64	668.16	664.68	660.04	655.40	650.18	644.96	639.16
15	675.70	672.80	668.74	664.10	658.88	653.66	646.70	639.16	631.04	621.76
20	664.68	661.20	657.14	651.92	646.12	639.74	631.04	621.76	610.74	597.98
25	645.54	642.06	637.42	632.20	625.82	618.28	609.00	597.40	584.64	567.82
30	617.12	613.64	609.58	604.36	597.98	590.44	580.00	566.66	551.00	531.28
35	580.58	577.68	573.62	568.40	562.02	553.90	542.88	529.54	510.98	488.36
40	534.18	531.28	528.38	523.74	517.94	509.82	498.80	484.30	464.58	438.48
45	477.34	475.60	473.28	469.80	464.58	457.04	446.02	431.52	410.64	383.38
50	411.80	411.22	409.48	407.16	402.52	396.14	386.28	372.36	351.48	323.64
55	340.46	341.04	340.46	338.72	335.24	329.44	320.74	307.40	288.26	263.90
60	269.12	269.70	269.12	267.96	265.64	261.00	253.46	242.44	226.78	198.94

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CANDELA TABULATION - (Cont.)

65	201.84	202.42	201.84	200.68	198.94	195.46	190.24	181.54	168.78	150.80
70	144.42	144.42	143.84	142.68	140.94	138.04	133.98	127.60	117.74	103.82
75	93.96	93.96	93.38	92.80	91.06	89.32	85.84	81.78	74.82	66.70
80	53.94	53.36	52.78	51.62	51.04	49.30	47.56	44.66	40.60	35.96
85	22.62	22.04	21.46	20.88	20.30	19.14	18.56	16.82	15.08	12.76
90	0.58	1.16	1.16	1.16	1.16	1.16	1.16	1.74	1.74	1.74
95	24.36	24.36	24.36	24.36	23.78	23.78	23.78	23.78	23.78	24.36
100	56.84	56.84	56.84	56.84	56.84	56.84	56.84	56.84	56.84	57.42
105	97.44	98.02	98.60	99.18	99.18	99.76	99.76	99.76	99.76	100.34
110	146.16	147.32	147.90	148.48	149.06	149.64	149.64	149.64	150.22	150.22
115	201.26	203.00	204.16	204.74	205.32	205.90	206.48	206.48	206.48	206.48
120	263.32	265.06	266.22	267.38	268.54	269.12	269.12	269.12	269.12	268.54
125	329.44	331.18	332.92	334.66	335.24	336.40	336.40	336.40	336.40	335.24
130	397.88	399.62	401.36	403.10	404.26	404.84	405.42	405.42	404.84	403.68
135	465.74	467.48	469.22	470.38	471.54	472.12	472.70	472.70	472.12	470.96
140	528.96	530.70	531.86	533.02	533.60	534.18	534.76	534.76	534.18	533.02
145	586.38	587.54	588.12	588.70	589.28	589.86	589.86	589.28	589.28	588.12
150	635.10	635.68	636.26	636.84	636.84	636.84	636.84	636.84	635.68	635.10
155	675.12	675.70	675.70	676.28	676.28	675.70	675.70	675.70	675.12	673.96
160	707.02	707.02	707.02	707.02	707.02	707.02	706.44	706.44	705.86	704.70
165	730.22	730.22	730.22	730.22	730.22	730.22	729.64	729.64	729.06	728.48
170	746.46	746.46	745.88	745.88	745.88	745.88	745.30	745.30	744.72	744.72
175	754.58	754.58	754.58	754.58	754.58	754.00	754.00	754.00	754.00	753.42
180	755.74	755.74	755.74	755.74	755.74	755.74	755.74	755.74	755.74	755.74

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	654.82	654.82	654.82	654.82	654.82	654.82	654.82	654.82	654.82	654.82
5	647.86	645.54	642.64	640.32	637.42	635.10	632.78	630.46	628.14	626.40
10	633.36	626.98	620.60	613.64	606.68	599.72	593.34	586.38	580.58	574.20
15	611.90	600.88	589.86	577.68	565.50	552.74	540.56	527.22	515.62	504.02
20	584.64	568.98	551.00	533.02	513.88	494.74	475.02	454.72	436.74	419.92
25	549.84	528.96	504.60	479.66	453.56	426.88	400.78	374.10	351.48	330.02
30	508.66	482.56	451.24	419.92	386.86	354.38	323.06	293.48	268.54	245.92
35	461.68	429.78	393.82	355.54	318.42	283.04	250.56	220.40	196.04	175.16
40	408.32	372.94	332.34	291.16	252.30	217.50	186.76	159.50	138.04	120.64
45	350.90	313.20	271.44	230.26	194.30	162.40	134.56	112.52	95.12	81.20
50	291.16	253.46	213.44	178.06	143.26	116.58	95.12	77.72	64.38	53.94
55	233.16	195.46	163.56	132.24	103.82	82.94	66.70	52.78	43.50	36.54
60	178.06	148.48	120.64	95.70	74.24	58.58	48.14	37.12	30.16	25.52
65	129.92	106.72	85.84	67.86	52.20	41.18	32.48	26.10	21.46	17.98
70	89.32	73.66	58.00	47.56	35.96	27.84	22.04	17.98	14.50	12.18
75	56.84	46.98	37.12	29.58	23.20	17.98	13.92	11.60	9.86	8.12
80	30.16	24.94	19.72	15.66	12.76	9.86	8.12	6.38	5.80	4.64
85	11.02	9.28	7.54	5.80	4.64	4.06	3.48	2.90	2.32	1.74
90	2.32	2.32	2.90	2.90	2.90	2.90	3.48	3.48	3.48	3.48
95	24.94	25.52	26.68	27.26	27.26	27.84	28.42	28.42	28.42	28.42
100	58.58	59.16	59.74	60.32	60.32	60.90	60.90	60.90	60.32	60.32
105	100.34	100.92	101.50	101.50	101.50	100.92	100.92	100.34	100.34	99.76
110	150.22	150.22	150.22	150.22	149.64	149.06	147.90	147.32	146.74	145.58
115	205.90	205.32	205.32	204.74	204.16	203.00	201.84	200.68	199.52	198.36
120	267.96	267.38	266.22	265.06	263.90	262.74	261.58	259.84	258.68	256.94
125	334.66	333.50	331.76	330.02	328.28	326.54	324.80	323.06	321.32	320.16
130	402.52	400.78	399.04	396.72	394.40	392.66	390.34	388.60	386.86	384.54
135	469.22	467.48	465.16	462.84	459.94	457.62	455.30	452.98	451.24	448.92

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CANDELA TABULATION - (Cont.)

140	531.28	529.54	526.64	524.32	521.42	519.10	516.78	514.46	512.14	510.40
145	586.38	584.64	582.32	580.00	577.68	574.78	572.46	570.14	568.40	566.66
150	633.36	632.20	630.46	628.14	625.82	624.08	621.76	619.44	617.70	616.54
155	673.38	672.22	670.48	668.74	667.00	665.84	664.10	662.36	660.62	658.88
160	704.12	703.54	702.38	701.22	700.06	698.90	697.74	696.58	695.42	694.26
165	727.90	727.32	726.74	726.16	725.00	724.42	723.84	722.68	722.10	721.52
170	744.14	744.14	743.56	742.98	742.98	742.40	741.82	741.82	741.24	740.66
175	753.42	753.42	753.42	752.84	752.84	752.84	752.84	752.26	752.26	752.26
180	755.74	755.74	755.74	755.74	755.74	755.74	755.74	755.74	755.74	755.74

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	654.82	654.82	654.82	654.82	654.82	654.82	654.82
5	624.66	622.92	621.76	620.60	620.02	619.44	619.44
10	568.98	564.34	560.28	557.38	555.06	553.32	553.32
15	494.16	484.88	477.34	471.54	466.90	464.58	463.42
20	404.26	391.50	380.48	371.78	365.40	361.92	360.76
25	311.46	296.38	283.04	273.18	266.80	262.74	261.00
30	226.78	211.70	199.52	190.24	183.86	180.38	178.64
35	158.34	145.00	134.56	127.02	121.22	118.32	117.16
40	106.72	96.28	87.58	81.78	77.72	75.40	74.82
45	70.76	62.64	56.26	52.20	49.30	47.56	46.98
50	48.14	41.18	37.12	33.64	31.90	30.74	30.16
55	31.32	27.26	24.36	22.62	21.46	20.30	20.30
60	21.46	19.14	16.82	15.66	14.50	14.50	13.92
65	15.08	13.34	12.18	11.02	10.44	10.44	9.86
70	10.44	9.28	8.70	8.12	7.54	6.96	6.96
75	6.96	6.38	5.80	5.22	5.22	4.64	4.64
80	4.06	3.48	3.48	3.48	2.90	2.90	2.90
85	1.74	1.74	1.74	1.16	1.16	1.16	1.16
90	3.48	3.48	3.48	3.48	3.48	3.48	3.48
95	28.42	28.42	28.42	28.42	28.42	28.42	28.42
100	60.32	60.32	59.74	59.74	59.74	59.74	59.74
105	99.18	98.60	98.60	98.02	98.02	97.44	97.44
110	145.00	144.42	143.84	143.26	142.68	142.10	142.10
115	197.20	196.62	195.46	194.88	194.30	193.72	193.72
120	255.78	254.04	253.46	252.30	251.72	251.14	251.14
125	318.42	316.68	315.52	314.36	313.78	313.20	313.20
130	382.80	381.64	380.48	379.32	378.16	377.58	377.58
135	447.18	446.02	444.28	443.12	442.54	441.96	441.96
140	508.66	506.92	505.76	504.60	504.02	503.44	503.44
145	564.92	563.18	562.02	561.44	560.28	560.28	560.28
150	614.22	613.06	612.48	611.32	610.74	610.16	610.16
155	657.72	656.56	655.98	654.82	654.24	654.24	653.66
160	693.68	692.52	691.94	691.36	690.78	690.78	690.20
165	720.94	720.36	719.78	719.78	719.20	719.20	719.20
170	740.66	740.08	740.08	739.50	739.50	739.50	739.50
175	752.26	752.26	752.26	751.68	751.68	751.68	751.68
180	755.74	755.74	755.74	755.74	755.74	755.74	755.74

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	231.07	N.A.	7.00
0-30	468.89	N.A.	14.20
0-40	729.82	N.A.	22.20
0-60	1163.58	N.A.	35.30
0-80	1349.01	N.A.	41.00
0-90	1365.72	N.A.	41.50
10-90	1304.17	N.A.	39.60
20-40	498.75	N.A.	15.20
20-50	741.55	N.A.	22.50
40-70	557.48	N.A.	16.90
60-80	185.43	N.A.	5.60
70-80	61.71	N.A.	1.90
80-90	16.71	N.A.	0.50
90-110	136.03	N.A.	4.10
90-120	335.58	N.A.	10.20
90-130	627.07	N.A.	19.10
90-150	1341.57	N.A.	40.80
90-180	1925.94	N.A.	58.50
110-180	1789.91	N.A.	54.40
0-180	3291.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	61.55
10-20	169.52
20-30	237.82
30-40	260.92
40-50	242.80
50-60	190.96
60-70	123.72
70-80	61.71
80-90	16.71
90-100	30.40
100-110	105.63
110-120	199.54
120-130	291.49
130-140	353.52
140-150	360.99
150-160	307.79
160-170	204.97
170-180	71.61

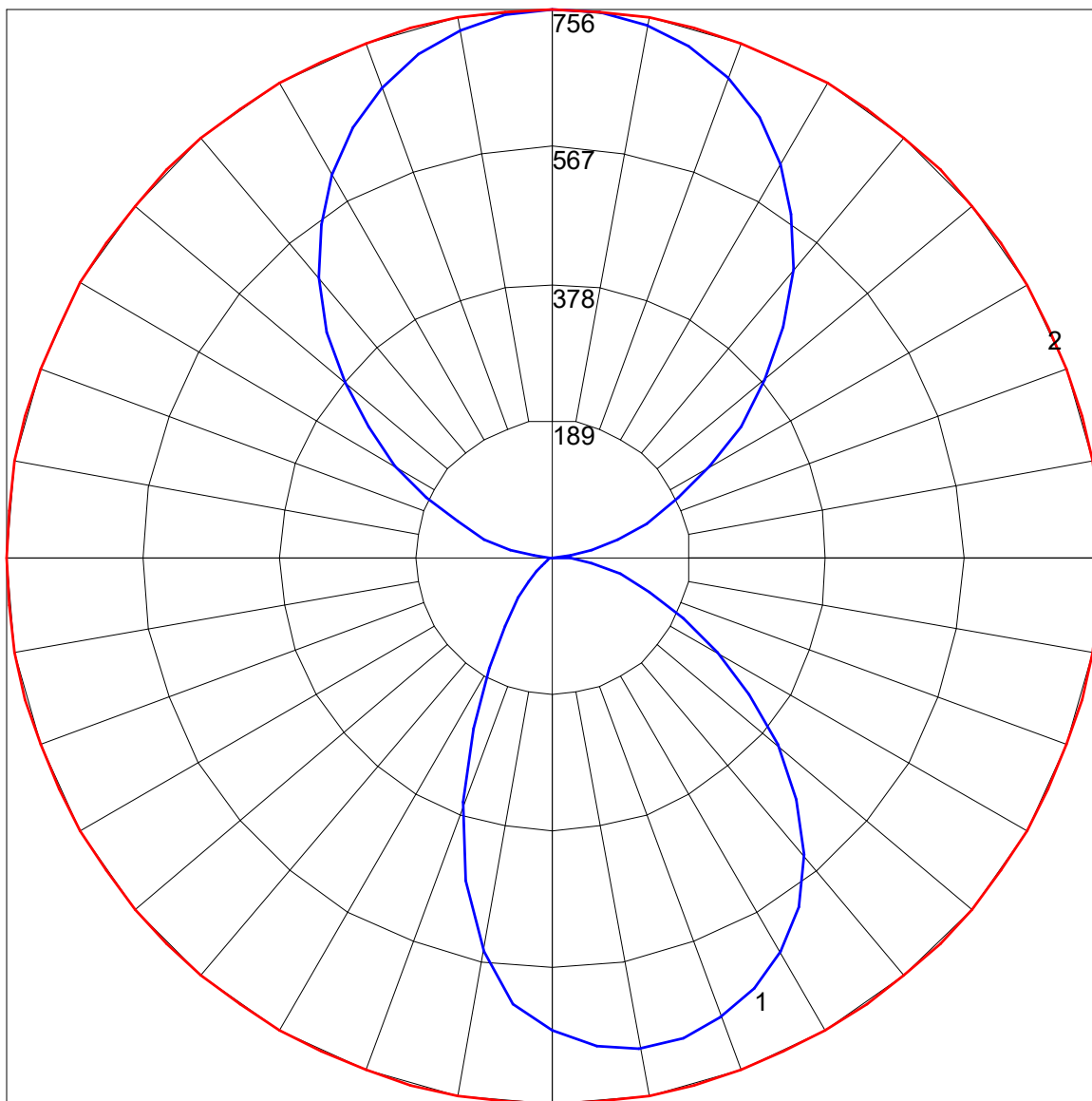
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	41
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	42	36
2	88	81	75	70	80	74	69	65	61	58	55	49	47	45	39	37	36	31
3	80	71	64	59	73	66	59	55	54	50	46	44	41	38	35	32	31	26
4	74	63	56	50	67	58	52	47	49	44	40	40	36	33	31	29	27	23
5	68	57	49	43	62	52	45	40	44	38	35	36	32	29	28	26	24	20
6	63	51	43	38	57	47	40	35	39	34	30	32	28	26	26	23	21	18
7	58	46	38	33	53	42	36	31	36	31	27	29	26	23	24	21	19	16
8	54	42	34	29	49	39	32	27	33	28	24	27	23	20	22	19	17	14
9	50	38	31	26	46	35	29	25	30	25	21	25	21	18	20	17	15	13
10	47	35	28	23	43	33	26	22	28	23	19	23	19	17	19	16	14	12

POLAR GRAPH



Maximum Candela = 755.74 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)