

IES Report

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

707-Z3-4-48-XX-XX-X-0-Z-LO-35-U2A1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	111	115	117	117
Total Lumens, 4' rail length (1219mm)	3293	3397	3466	3466
Lumens per foot (305mm)	823	849	867	867
Lumens per foot UP (305mm)	485	500	511	511
Lumens per foot DOWN (305mm)	338	349	356	356
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_U2A1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010918 (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-U2A1-BL

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

[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	3466
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
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	9647	10017	9508
55	8008	8523	8282
65	6096	6547	6539
75	4183	4547	4685
85	1850	2071	2701

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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	672.80	672.80	672.80	672.80	672.80	672.80	672.80	672.80	672.80	672.80
5	693.68	693.68	693.68	693.10	692.52	691.94	691.36	690.20	689.62	687.88
10	704.12	704.12	704.12	703.54	702.38	701.80	700.64	698.90	697.74	695.42
15	701.22	701.22	700.64	700.64	700.06	698.90	697.74	696.58	694.84	691.94
20	688.46	687.88	687.88	687.30	686.72	686.14	684.98	683.82	682.08	680.34
25	666.42	666.42	666.42	665.84	665.26	664.68	663.52	662.36	660.62	658.88
30	635.10	635.68	635.10	635.10	634.52	633.94	632.78	631.62	630.46	628.72
35	594.50	594.50	594.50	594.50	594.50	593.92	593.92	593.34	592.18	590.44
40	542.30	542.30	542.30	542.88	543.46	543.46	544.04	543.46	543.46	542.88
45	479.66	479.66	480.24	480.24	481.40	481.98	483.14	483.72	484.30	484.30
50	409.48	409.48	410.06	410.64	411.80	412.38	414.12	415.28	416.44	417.60
55	337.56	337.56	338.14	338.72	339.30	340.46	341.62	342.78	343.94	345.68
60	267.38	267.38	267.96	268.54	269.12	269.70	270.86	271.44	272.60	273.76
65	203.00	203.00	203.58	203.58	204.16	204.74	205.32	205.90	205.90	206.48
70	146.74	146.74	147.32	147.32	147.32	147.90	147.90	147.90	148.48	149.06
75	98.02	98.02	98.02	98.02	98.02	98.02	98.02	98.02	98.02	98.02
80	56.84	56.84	56.84	56.84	56.84	56.84	56.84	56.84	56.26	56.26
85	23.78	23.78	23.78	23.20	23.20	23.20	23.20	23.20	22.62	22.62
90	18.56	18.56	17.98	17.40	16.82	15.66	14.50	13.34	12.18	11.02
95	43.50	43.50	43.50	42.92	42.34	41.18	40.02	38.86	37.70	36.54
100	77.72	77.72	77.72	77.14	76.56	75.98	75.40	74.24	73.08	71.92
105	121.22	121.22	120.64	120.64	120.06	120.06	119.48	118.90	117.74	117.16
110	172.84	172.84	172.84	172.84	172.84	172.84	172.26	171.68	171.10	170.52
115	233.16	233.16	233.16	233.16	233.16	233.16	233.16	232.58	232.58	232.00
120	299.86	299.86	299.86	299.86	299.86	299.86	299.86	299.86	299.86	299.86
125	370.04	370.04	370.04	370.62	370.62	370.62	370.62	370.62	370.62	371.20
130	439.64	440.22	440.22	440.22	440.22	440.22	440.80	440.80	440.80	441.38
135	505.76	505.76	505.76	506.34	506.34	506.34	506.92	506.92	506.92	507.50
140	565.50	565.50	565.50	565.50	565.50	565.50	566.08	566.08	566.08	566.66
145	617.12	616.54	617.12	617.12	617.12	617.12	617.12	617.12	617.12	617.12
150	660.04	660.04	660.04	660.04	660.04	660.04	660.04	660.62	660.04	660.04
155	695.42	695.42	695.42	695.42	695.42	695.42	695.42	694.84	694.84	694.84
160	722.68	722.68	722.68	722.68	722.68	722.68	722.68	722.10	722.10	721.52
165	742.98	742.98	742.98	742.98	742.98	742.98	742.40	742.40	742.40	741.82
170	756.32	756.32	756.32	756.32	756.32	756.32	755.74	755.74	755.74	755.74
175	762.70	762.70	762.70	762.70	762.70	762.70	762.70	762.70	762.70	762.70
180	763.28	763.28	763.28	763.28	763.28	763.28	763.28	763.28	763.28	763.28

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	672.80	672.80	672.80	672.80	672.80	672.80	672.80	672.80	672.80	672.80
5	686.72	684.98	683.82	681.50	679.76	678.02	675.70	673.38	671.64	669.32
10	693.10	691.36	688.46	684.98	681.50	677.44	672.80	668.74	663.52	658.30
15	689.62	686.72	683.24	679.18	674.54	669.32	662.94	656.56	649.02	639.74
20	677.44	674.54	671.06	666.42	661.20	654.82	647.28	638.58	628.72	616.54
25	656.56	653.66	650.76	645.54	639.74	633.36	624.66	614.22	601.46	586.96
30	626.98	624.08	620.60	616.54	611.32	603.20	594.50	582.90	567.82	549.84
35	588.70	586.96	583.48	580.00	574.78	566.66	557.38	544.62	527.80	506.92
40	541.72	539.98	537.66	533.60	528.96	522.00	512.14	498.80	480.24	457.62
45	484.30	483.72	481.98	479.08	475.02	468.06	458.78	444.86	425.14	400.78
50	418.18	418.18	417.02	415.28	411.80	406.00	396.72	383.96	364.82	339.88
55	346.26	347.42	346.84	345.68	343.36	338.14	330.02	318.42	301.02	276.08
60	274.34	274.92	274.92	274.34	272.02	268.54	261.58	251.14	236.06	214.60

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CANDELA TABULATION - (Cont.)

65	207.06	207.06	206.48	205.90	204.16	201.26	195.46	188.50	175.74	158.34
70	148.48	147.90	147.32	146.16	144.42	142.10	138.04	131.66	122.38	109.62
75	97.44	97.44	96.28	95.12	93.38	91.64	88.16	84.10	77.72	70.18
80	55.68	55.10	54.52	53.36	52.20	50.46	48.72	45.82	42.34	37.70
85	22.62	22.62	22.04	21.46	20.88	19.72	18.56	17.40	15.66	13.92
90	9.86	8.70	6.96	5.80	4.64	3.48	2.90	1.74	1.16	1.16
95	34.80	33.06	31.32	30.16	28.42	26.68	25.52	24.36	23.20	22.62
100	70.76	69.02	67.86	66.12	64.38	63.22	61.48	60.32	58.58	58.00
105	116.00	114.84	113.68	112.52	110.78	109.62	107.88	106.72	105.56	103.82
110	169.94	169.36	168.20	167.04	165.88	164.72	163.56	161.82	160.66	158.92
115	231.42	230.84	230.26	229.68	228.52	227.94	226.20	225.04	223.88	221.56
120	299.28	299.28	298.70	298.70	297.54	296.96	295.80	294.64	292.90	291.16
125	371.20	371.20	370.62	370.62	370.04	369.46	368.30	367.14	365.98	363.66
130	441.38	441.38	441.38	441.38	440.80	440.22	439.64	438.48	436.74	435.00
135	507.50	507.50	507.50	507.50	506.92	506.34	505.76	504.60	502.86	501.70
140	566.66	566.66	566.66	566.08	566.08	565.50	564.34	563.18	562.02	560.86
145	617.70	617.70	617.12	616.54	615.96	615.38	614.80	613.64	612.48	611.32
150	660.04	660.04	659.46	658.88	658.30	657.72	657.14	655.98	655.40	654.24
155	694.84	694.26	693.68	693.10	692.52	691.94	691.36	690.78	690.20	689.04
160	721.52	721.52	720.94	720.36	720.36	719.20	719.20	718.04	717.46	716.88
165	741.82	741.24	741.24	740.66	740.08	740.08	739.50	738.92	738.92	738.34
170	755.16	755.16	755.16	754.58	754.58	754.00	754.00	754.00	753.42	752.84
175	762.12	762.12	762.12	762.12	762.12	761.54	761.54	761.54	761.54	761.54
180	763.28	763.28	763.28	763.28	763.28	763.28	763.28	763.28	763.28	763.28

Vert. Angles **Horizontal Angles**

	100	105	110	115	120	125	130	135	140	145
0	672.80	672.80	672.80	672.80	672.80	672.80	672.80	672.80	672.80	672.80
5	666.42	664.10	661.78	659.46	656.56	654.24	651.92	650.18	647.86	646.12
10	652.50	646.70	640.32	634.52	628.14	621.76	615.96	609.58	604.36	599.14
15	631.04	621.18	610.74	599.72	588.70	577.10	566.08	555.06	544.62	534.76
20	603.78	589.28	574.20	557.96	540.56	523.16	505.76	488.36	472.12	456.46
25	570.14	551.00	529.54	507.50	483.72	459.36	435.00	411.80	390.92	370.62
30	528.96	505.18	478.50	449.50	418.18	389.18	360.18	332.34	307.40	285.36
35	481.98	452.98	420.50	386.86	350.32	316.68	284.78	255.78	230.84	208.80
40	429.78	396.14	359.02	321.90	283.04	248.24	216.92	188.50	165.88	147.32
45	370.62	335.24	296.38	258.10	219.82	187.34	159.50	134.56	116.00	100.34
50	309.72	272.60	235.48	194.88	165.88	137.46	114.26	94.54	79.46	67.86
55	247.08	213.44	180.96	149.64	120.64	98.02	80.04	64.96	53.94	45.82
60	190.24	161.24	133.98	108.46	86.42	69.02	55.10	44.66	37.12	30.74
65	138.62	116.00	94.54	75.98	60.32	49.30	38.28	30.74	25.52	21.46
70	95.12	80.04	64.96	51.62	40.60	32.48	25.52	20.88	17.40	14.50
75	60.32	50.46	40.60	32.48	25.52	20.30	16.24	13.34	11.02	9.28
80	32.48	27.26	22.04	17.40	13.92	11.02	9.28	7.54	6.38	5.22
85	11.60	9.86	8.12	6.38	5.22	4.06	3.48	2.90	2.32	2.32
90	1.16	1.16	1.16	1.16	1.16	1.16	1.74	1.74	2.32	2.32
95	22.04	21.46	21.46	21.46	21.46	21.46	21.46	21.46	21.46	22.04
100	57.42	56.26	55.68	55.10	54.52	53.94	53.36	53.36	52.78	52.78
105	103.24	101.50	100.92	99.18	98.02	96.86	96.28	95.12	93.96	93.38
110	157.76	156.02	154.28	152.54	150.80	149.06	146.74	145.58	143.84	142.10
115	219.82	218.08	215.76	213.44	211.12	208.80	206.48	204.16	201.84	200.10
120	289.42	287.10	284.20	281.88	278.98	276.08	273.18	270.28	267.38	265.06
125	361.92	359.60	356.70	353.80	350.32	347.42	343.94	341.04	338.14	335.24
130	433.26	430.94	428.04	425.14	422.24	419.34	415.86	412.96	410.06	407.16
135	499.38	497.64	495.32	493.00	490.10	487.20	484.30	481.98	479.08	476.18

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CANDELA TABULATION - (Cont.)

140	559.12	557.38	555.64	553.32	551.00	548.68	546.36	544.04	541.72	539.98
145	610.16	609.00	607.26	605.52	603.78	602.04	600.30	598.56	596.82	595.08
150	653.08	651.92	650.76	649.60	648.44	647.28	645.54	644.38	643.22	642.06
155	688.46	687.30	686.72	685.56	684.98	683.82	682.66	682.08	680.92	680.34
160	716.30	715.72	715.14	714.56	713.98	713.40	712.24	711.66	711.08	710.50
165	737.76	737.18	736.60	736.02	735.44	735.44	734.86	734.28	734.28	733.70
170	752.84	752.26	752.26	751.68	751.68	751.10	751.10	750.52	750.52	750.52
175	761.54	760.96	760.96	760.96	760.96	760.38	760.38	760.38	760.38	760.38
180	763.28	763.28	763.28	763.28	763.28	763.28	763.28	763.28	763.28	763.28

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	672.80	672.80	672.80	672.80	672.80	672.80	672.80
5	644.96	643.22	642.06	640.90	640.32	639.74	639.74
10	594.50	590.44	586.38	584.06	581.74	580.58	580.00
15	525.48	517.36	510.98	505.76	501.70	498.80	498.22
20	442.54	430.94	420.50	412.38	406.58	403.10	401.94
25	352.64	338.14	325.96	315.52	308.56	304.50	303.34
30	266.22	249.98	237.80	227.94	220.98	216.34	215.18
35	190.82	176.32	165.30	156.02	150.22	146.16	145.00
40	131.66	120.06	110.20	103.24	98.60	95.70	94.54
45	88.74	79.46	71.92	66.70	63.22	61.48	60.32
50	59.16	52.20	46.98	43.50	41.18	39.44	38.86
55	38.86	34.22	30.74	28.42	26.68	26.10	25.52
60	26.68	23.20	20.88	19.14	18.56	17.40	17.40
65	17.98	16.24	14.50	13.34	12.76	12.18	12.18
70	12.18	11.02	9.86	9.28	8.70	8.70	8.12
75	8.12	6.96	6.38	6.38	5.80	5.80	5.80
80	4.64	4.06	4.06	3.48	3.48	3.48	3.48
85	1.74	1.74	1.74	1.74	1.74	1.74	1.74
90	2.32	2.90	2.90	2.90	3.48	3.48	3.48
95	22.04	22.04	22.04	22.04	22.04	22.04	22.62
100	52.20	52.20	51.62	51.62	51.62	51.62	51.62
105	92.22	91.64	91.06	90.48	90.48	90.48	89.90
110	140.94	139.78	139.20	138.04	137.46	137.46	137.46
115	198.36	196.62	195.46	194.30	193.72	193.14	193.14
120	262.74	261.00	259.26	258.10	256.94	256.36	255.78
125	332.92	330.60	328.86	327.12	325.96	325.38	325.38
130	404.26	402.52	400.20	399.04	397.88	397.30	396.72
135	474.44	472.12	470.38	468.64	468.06	467.48	466.90
140	537.66	535.92	534.76	533.60	532.44	531.86	531.86
145	593.34	592.76	591.60	590.44	589.86	589.28	589.28
150	640.90	639.74	638.58	638.00	637.42	637.42	637.42
155	679.18	678.60	678.02	677.44	677.44	676.86	676.86
160	709.92	709.92	709.34	708.76	708.76	708.18	708.18
165	733.70	733.12	733.12	733.12	732.54	732.54	731.96
170	749.94	749.94	749.94	749.94	749.36	749.36	749.36
175	760.38	759.80	759.80	759.80	759.80	759.80	759.80
180	763.28	763.28	763.28	763.28	763.28	763.28	763.28

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	238.74	N.A.	6.90
0-30	486.84	N.A.	14.00
0-40	759.67	N.A.	21.90
0-60	1212.05	N.A.	35.00
0-80	1405.51	N.A.	40.50
0-90	1423.72	N.A.	41.10
10-90	1360.39	N.A.	39.20
20-40	520.93	N.A.	15.00
20-50	774.31	N.A.	22.30
40-70	581.45	N.A.	16.80
60-80	193.46	N.A.	5.60
70-80	64.40	N.A.	1.90
80-90	18.20	N.A.	0.50
90-110	148.10	N.A.	4.30
90-120	365.75	N.A.	10.60
90-130	684.48	N.A.	19.70
90-150	1444.85	N.A.	41.70
90-180	2042.6	N.A.	58.90
110-180	1894.49	N.A.	54.70
0-180	3466.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	63.33
10-20	175.41
20-30	248.11
30-40	272.82
40-50	253.38
50-60	199.00
60-70	129.07
70-80	64.40
80-90	18.20
90-100	34.22
100-110	113.89
110-120	217.65
120-130	318.73
130-140	380.74
140-150	379.63
150-160	316.97
160-170	208.37
170-180	72.41

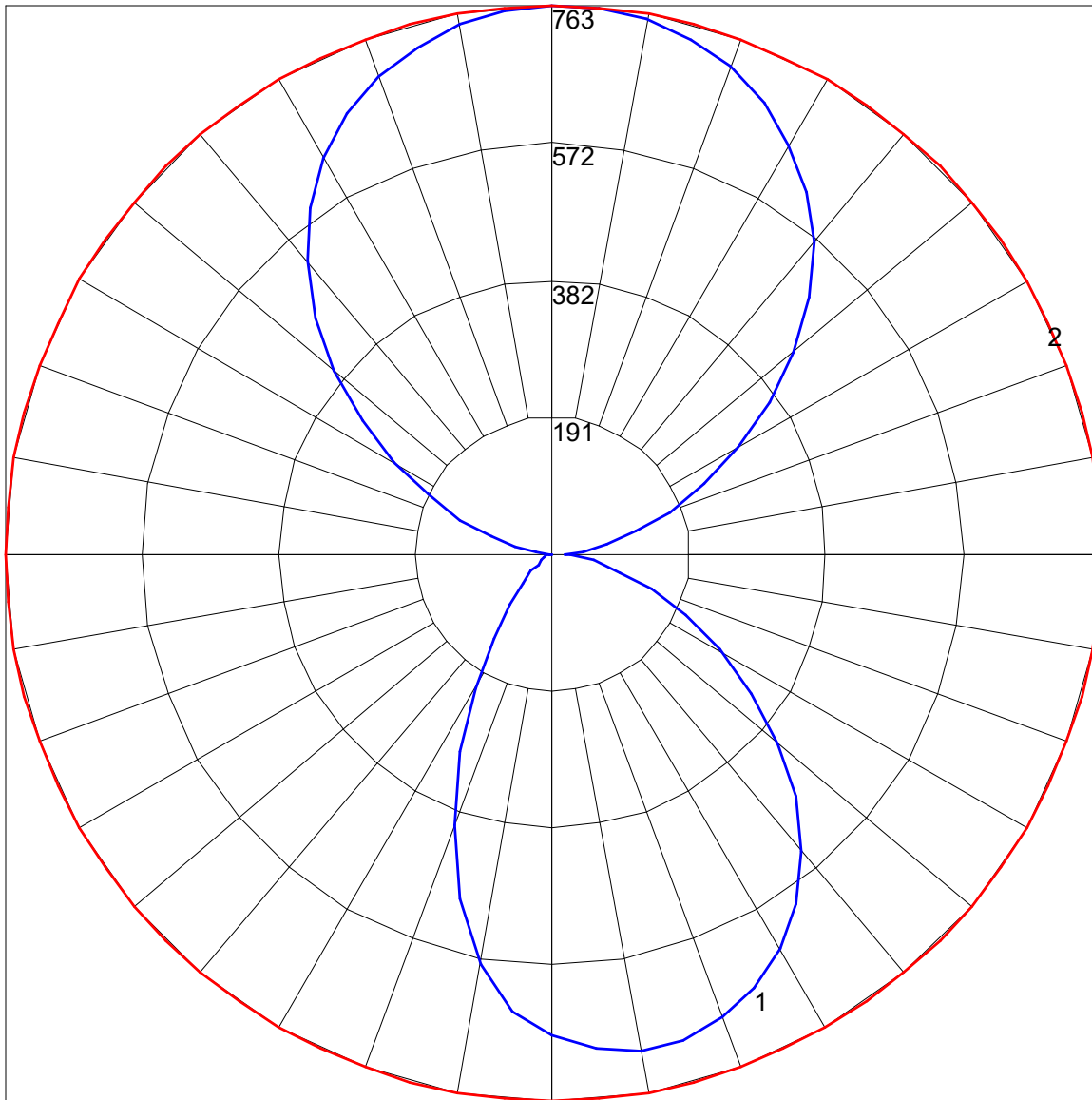
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

POLAR GRAPH



Maximum Candela = 763.28 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.)