

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-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	114	118	120	120
Total Lumens, 4' rail length (1219mm)	3380	3487	3558	3558
Lumens per foot (305mm)	845	872	889	889
Lumens per foot UP (305mm)	503	519	529	529
Lumens per foot DOWN (305mm)	342	353	360	360
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.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911545 / L121911542R01 (SOURCE REPORTS 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-AL

[LUMINAIRE] ZipThree LED, 48", 3500K, 80 CRI, zipper board, symmetric lens with edgeglow up/85° asymmetric lens down,

[MORE] 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	3558
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
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	11513	11468	8821
55	9976	10139	7707
65	7838	8092	6237
75	5445	5704	4615
85	2436	2602	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	628.14	628.14	628.14	628.14	628.14	628.14	628.14	628.14	628.14	628.14
5	680.34	680.34	679.76	678.60	677.44	675.70	673.96	671.64	668.74	665.84
10	721.52	720.94	720.36	718.62	716.88	713.40	710.50	706.44	701.22	696.58
15	743.56	742.98	741.82	740.08	737.76	734.28	730.22	725.58	719.78	712.82
20	748.20	747.62	747.04	745.30	742.98	738.92	734.86	729.64	723.84	716.88
25	738.34	738.34	737.18	735.44	733.12	729.64	726.16	720.94	714.56	707.60
30	716.88	716.30	715.72	713.98	711.66	708.18	704.70	699.48	693.68	687.30
35	682.08	682.08	680.92	679.76	677.44	674.54	671.06	667.00	661.20	654.82
40	633.94	633.36	633.36	632.20	630.46	628.14	625.24	621.18	616.54	610.74
45	572.46	572.46	571.88	571.30	570.14	567.82	566.08	563.18	559.12	554.48
50	499.96	499.96	499.38	499.38	498.22	497.06	495.32	493.58	490.68	486.62
55	420.50	420.50	420.50	419.92	419.34	418.76	417.60	415.86	413.54	411.22
60	339.30	339.30	339.30	338.72	338.14	338.14	336.98	335.82	334.08	331.76
65	261.00	261.00	261.00	261.00	260.42	259.84	259.26	258.68	256.94	255.20
70	190.82	190.82	190.82	190.82	190.24	190.24	189.66	188.50	187.34	186.18
75	127.60	127.60	127.60	127.60	127.02	127.02	126.44	125.28	124.70	122.96
80	73.66	73.66	73.66	73.66	73.66	73.08	72.50	71.92	71.34	70.18
85	31.32	31.32	31.32	31.32	30.74	30.16	30.16	29.58	29.00	28.42
90	11.60	11.60	11.02	11.02	10.44	9.86	9.28	8.12	7.54	6.96
95	34.22	34.22	33.64	33.64	33.06	32.48	31.90	31.32	30.74	29.58
100	67.28	67.28	67.28	67.28	66.70	66.70	66.12	65.54	65.54	64.96
105	110.20	110.20	110.20	110.20	110.20	110.20	110.20	110.20	110.20	110.20
110	161.82	161.82	162.40	162.40	162.40	162.98	162.98	163.56	164.14	164.14
115	222.14	222.14	222.72	222.72	223.30	223.88	224.46	225.04	225.62	226.78
120	290.00	290.00	290.00	290.58	291.16	291.74	292.90	294.06	295.22	295.80
125	361.92	361.92	362.50	363.08	363.66	364.82	365.40	366.56	368.30	369.46
130	435.00	435.00	435.58	436.16	436.74	437.90	439.06	440.22	441.38	443.12
135	505.18	505.18	505.76	506.34	506.92	508.08	508.66	509.82	510.98	512.72
140	568.98	568.98	568.98	570.14	570.72	571.30	571.88	573.04	574.20	575.36
145	624.66	625.24	625.24	625.82	625.82	626.40	627.56	628.14	628.72	629.88
150	672.22	672.22	672.22	672.22	672.80	673.38	673.96	673.96	674.54	675.12
155	710.50	710.50	710.50	710.50	711.08	711.08	711.66	712.24	712.24	712.82
160	741.24	741.24	741.24	741.24	741.82	741.82	741.82	741.82	741.82	742.40
165	764.44	764.44	764.44	764.44	764.44	764.44	764.44	764.44	764.44	764.44
170	780.10	780.10	780.10	780.10	780.10	780.10	780.10	780.10	780.10	780.68
175	788.80	788.80	789.38	788.80	788.80	788.80	789.38	789.38	788.80	789.38
180	791.12	791.12	791.12	791.12	791.12	791.12	791.12	791.12	791.12	791.12

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	628.14	628.14	628.14	628.14	628.14	628.14	628.14	628.14	628.14	628.14
5	662.36	658.88	654.82	650.76	646.12	641.48	636.84	631.62	626.40	620.60
10	690.20	683.82	676.28	668.16	659.46	650.18	640.32	629.88	618.28	606.10
15	705.28	696.58	686.72	676.28	664.10	651.34	636.84	621.76	604.36	586.38
20	707.60	698.32	687.30	675.12	660.62	644.96	626.40	606.68	584.64	560.86
25	698.90	689.04	677.44	664.10	647.86	629.30	609.00	585.80	559.12	529.54
30	679.18	668.74	657.14	643.22	626.40	606.68	584.06	558.54	527.22	493.00
35	647.28	637.42	625.82	611.90	595.66	575.36	551.58	523.16	489.52	451.24
40	603.20	593.92	584.06	570.72	554.48	534.18	509.82	480.82	444.86	404.26
45	548.10	539.98	530.12	517.94	502.86	483.14	459.36	430.36	394.40	352.64
50	481.40	475.02	466.32	454.72	441.38	423.40	400.20	372.94	337.56	298.70
55	406.58	401.36	394.40	384.54	372.94	356.70	336.40	310.88	280.14	244.18
60	328.86	324.22	318.42	310.88	300.44	287.10	269.70	248.24	221.56	190.82

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CANDELA TABULATION - (Cont.)

65	252.30	248.82	244.18	237.80	229.68	219.24	205.32	188.50	167.62	142.68
70	183.86	180.96	177.48	172.26	165.88	157.76	147.32	134.56	118.90	100.92
75	121.22	119.48	116.58	113.10	108.46	103.24	95.70	87.00	76.56	65.54
80	69.02	67.28	65.54	63.22	60.32	57.42	52.78	48.14	42.34	35.96
85	27.26	26.68	25.52	24.36	23.20	21.46	20.30	17.98	15.66	13.34
90	5.80	5.22	4.06	3.48	2.90	2.32	1.74	1.74	1.16	1.74
95	29.00	27.84	27.26	26.10	25.52	24.36	23.78	23.78	23.20	23.78
100	64.38	63.80	63.22	62.64	62.06	61.48	60.90	60.32	60.32	60.32
105	110.20	109.62	109.62	109.62	109.04	109.04	109.04	108.46	108.46	108.46
110	164.72	164.72	165.30	165.30	165.88	165.88	165.88	165.88	165.88	165.88
115	227.36	227.94	229.10	229.68	230.26	230.26	230.84	230.84	230.84	230.84
120	296.96	298.12	299.28	300.44	301.02	302.18	302.18	302.76	302.76	302.76
125	370.62	372.36	373.52	374.68	375.84	377.00	377.58	377.58	377.58	377.58
130	444.28	445.44	447.18	448.34	449.50	450.66	450.66	451.24	451.24	451.24
135	513.88	515.04	516.20	517.36	518.52	519.10	519.68	520.26	519.68	520.26
140	576.52	577.10	578.26	579.42	580.00	580.58	581.16	581.16	581.16	581.16
145	630.46	631.04	632.20	632.20	632.78	633.36	633.36	633.94	633.94	633.94
150	675.70	676.28	676.86	677.44	677.44	678.02	678.02	678.02	678.02	678.02
155	712.82	713.40	713.40	713.40	713.98	713.98	713.98	713.98	713.98	713.98
160	742.40	742.98	742.98	742.98	742.98	742.98	742.98	742.98	743.56	742.98
165	765.02	765.02	765.02	765.02	765.02	765.02	765.02	765.60	765.02	765.60
170	780.68	780.10	780.68	780.68	780.68	780.68	780.68	780.68	780.10	780.68
175	789.38	789.38	789.38	789.38	789.38	789.38	789.38	789.38	789.38	789.38
180	791.12	791.12	791.12	791.12	791.12	791.12	791.12	791.12	791.12	791.12

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	628.14	628.14	628.14	628.14	628.14	628.14	628.14	628.14	628.14	628.14
5	615.38	610.16	604.36	599.14	594.50	589.28	584.64	580.00	575.94	571.88
10	594.50	582.32	569.56	557.38	545.20	533.60	522.58	510.98	501.12	491.84
15	567.82	548.68	528.38	508.08	488.94	469.80	451.82	433.84	418.18	403.68
20	534.76	508.66	481.40	454.14	426.30	400.78	377.00	354.38	335.24	317.26
25	498.22	464.58	429.78	396.72	361.92	332.34	305.08	280.14	259.26	241.28
30	456.46	416.44	376.42	338.14	300.44	268.54	240.70	216.34	196.04	179.22
35	410.06	365.98	321.90	281.30	243.02	212.28	186.18	164.14	146.16	132.82
40	360.18	313.78	268.54	229.10	192.56	164.72	142.10	123.54	109.04	98.60
45	308.56	262.16	218.66	182.12	150.22	126.44	107.88	93.38	82.94	74.82
50	256.36	213.44	175.16	143.26	116.58	97.44	82.94	71.92	64.38	58.58
55	198.94	168.20	136.30	110.20	89.32	74.82	63.80	55.68	50.46	46.98
60	159.50	129.34	103.82	84.10	67.86	56.84	49.30	44.08	40.02	37.12
65	118.90	95.70	76.56	62.06	51.62	43.50	37.70	33.64	30.74	29.00
70	84.10	68.44	54.52	45.82	37.12	31.90	27.84	24.94	23.20	21.46
75	54.52	45.24	36.54	30.16	24.94	21.46	19.14	17.40	15.66	14.50
80	30.16	24.94	20.30	16.82	14.50	12.76	11.02	9.86	9.28	8.70
85	11.60	9.86	8.12	6.96	5.80	5.22	4.64	4.64	4.06	4.06
90	1.74	2.32	2.90	3.48	4.06	5.22	5.80	6.96	7.54	8.12
95	23.78	24.36	25.52	26.10	27.26	27.84	29.00	29.58	30.74	31.32
100	60.90	61.48	62.06	62.64	63.22	63.80	64.38	64.96	65.54	65.54
105	109.04	109.04	109.04	109.62	109.62	109.62	110.20	110.20	110.20	110.20
110	165.88	165.88	165.88	165.30	165.30	164.72	164.72	164.14	164.14	163.56
115	230.84	230.26	230.26	229.68	229.10	227.94	227.36	226.78	225.62	225.04
120	302.18	302.18	301.02	300.44	299.28	298.12	296.96	295.80	295.22	294.06
125	377.58	377.00	375.84	374.68	373.52	372.36	370.62	369.46	368.30	366.56
130	450.66	450.66	449.50	448.34	447.18	445.44	444.28	443.12	441.38	440.22
135	519.68	519.10	518.52	517.36	516.20	515.04	513.88	512.72	510.98	509.82

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CANDELA TABULATION - (Cont.)

140	581.16	580.58	580.00	579.42	578.26	577.10	576.52	575.36	574.20	573.04
145	633.36	633.36	632.78	632.20	632.20	631.04	630.46	629.88	628.72	628.14
150	678.02	678.02	677.44	677.44	676.86	676.28	675.70	675.12	674.54	673.96
155	713.98	713.98	713.98	713.40	713.40	713.40	712.82	712.82	712.24	712.24
160	742.98	742.98	742.98	742.98	742.98	742.98	742.40	742.40	741.82	741.82
165	765.02	765.02	765.02	765.02	765.02	765.02	765.02	764.44	764.44	764.44
170	780.68	780.68	780.68	780.68	780.68	780.10	780.68	780.68	780.10	780.10
175	789.38	789.38	789.38	789.38	789.38	789.38	789.38	789.38	788.80	789.38
180	791.12	791.12	791.12	791.12	791.12	791.12	791.12	791.12	791.12	791.12

**Vert.
Angles**

Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	628.14	628.14	628.14	628.14	628.14	628.14	628.14
5	568.40	566.08	563.18	561.44	560.28	559.12	559.12
10	483.72	476.76	470.96	466.32	463.42	461.10	460.52
15	391.50	380.48	371.78	364.82	360.18	357.28	356.12
20	302.18	290.00	279.56	272.02	266.22	262.74	262.16
25	225.62	213.44	204.16	196.62	191.40	188.50	187.34
30	165.88	155.44	147.32	140.94	136.88	134.56	133.40
35	121.80	113.10	106.72	102.08	98.60	96.86	96.28
40	89.90	84.10	79.46	75.98	74.24	72.50	72.50
45	69.02	64.96	61.48	59.16	58.00	56.84	56.84
50	54.52	51.62	49.30	48.14	47.56	46.98	46.40
55	44.08	41.76	40.60	39.44	38.86	38.28	38.28
60	34.80	33.64	32.48	31.90	31.32	30.74	30.74
65	27.26	26.10	25.52	24.94	24.36	24.36	24.36
70	20.30	19.72	19.14	18.56	18.56	17.98	17.98
75	13.92	13.34	12.76	12.76	12.76	12.18	12.18
80	8.12	8.12	7.54	7.54	7.54	7.54	7.54
85	3.48	3.48	3.48	3.48	3.48	3.48	3.48
90	9.28	9.86	10.44	11.02	11.02	11.60	11.60
95	31.90	32.48	33.06	33.64	33.64	34.22	34.22
100	66.12	66.70	66.70	67.28	67.28	67.28	67.28
105	110.20	110.20	110.20	110.20	110.20	110.20	110.20
110	162.98	162.98	162.40	162.40	162.40	161.82	161.82
115	224.46	223.88	223.30	222.72	222.72	222.14	222.14
120	292.90	291.74	291.16	290.58	290.00	290.00	290.00
125	365.40	364.82	363.66	363.08	362.50	361.92	361.92
130	439.06	437.90	436.74	436.16	435.58	435.00	435.00
135	508.66	508.08	506.92	506.34	505.76	505.18	505.18
140	571.88	571.30	570.72	570.14	568.98	568.98	568.98
145	627.56	626.40	625.82	625.82	625.24	625.24	624.66
150	673.96	673.38	672.80	672.22	672.22	672.22	672.22
155	711.66	711.08	711.08	710.50	710.50	710.50	710.50
160	741.82	741.82	741.82	741.24	741.24	741.24	741.24
165	764.44	764.44	764.44	764.44	764.44	764.44	764.44
170	780.10	780.10	780.10	780.10	780.10	780.10	780.10
175	789.38	788.80	788.80	788.80	789.38	788.80	788.80
180	791.12	791.12	791.12	791.12	791.12	791.12	791.12

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	220.75	N.A.	6.20
0-30	452.34	N.A.	12.70
0-40	717.36	N.A.	20.20
0-60	1194.03	N.A.	33.60
0-80	1418.99	N.A.	39.90
0-90	1440.79	N.A.	40.50
10-90	1381.94	N.A.	38.80
20-40	496.61	N.A.	14.00
20-50	756.67	N.A.	21.30
40-70	624.82	N.A.	17.60
60-80	224.96	N.A.	6.30
70-80	76.81	N.A.	2.20
80-90	21.80	N.A.	0.60
90-110	153.50	N.A.	4.30
90-120	379.54	N.A.	10.70
90-130	710.17	N.A.	20.00
90-150	1497.84	N.A.	42.10
90-180	2116.91	N.A.	59.50
110-180	1963.4	N.A.	55.20
0-180	3557.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	58.85
10-20	161.90
20-30	231.59
30-40	265.02
40-50	260.07
50-60	216.60
60-70	148.15
70-80	76.81
80-90	21.80
90-100	35.30
100-110	118.20
110-120	226.03
120-130	330.64
130-140	394.53
140-150	393.13
150-160	328.18
160-170	215.85
170-180	75.04

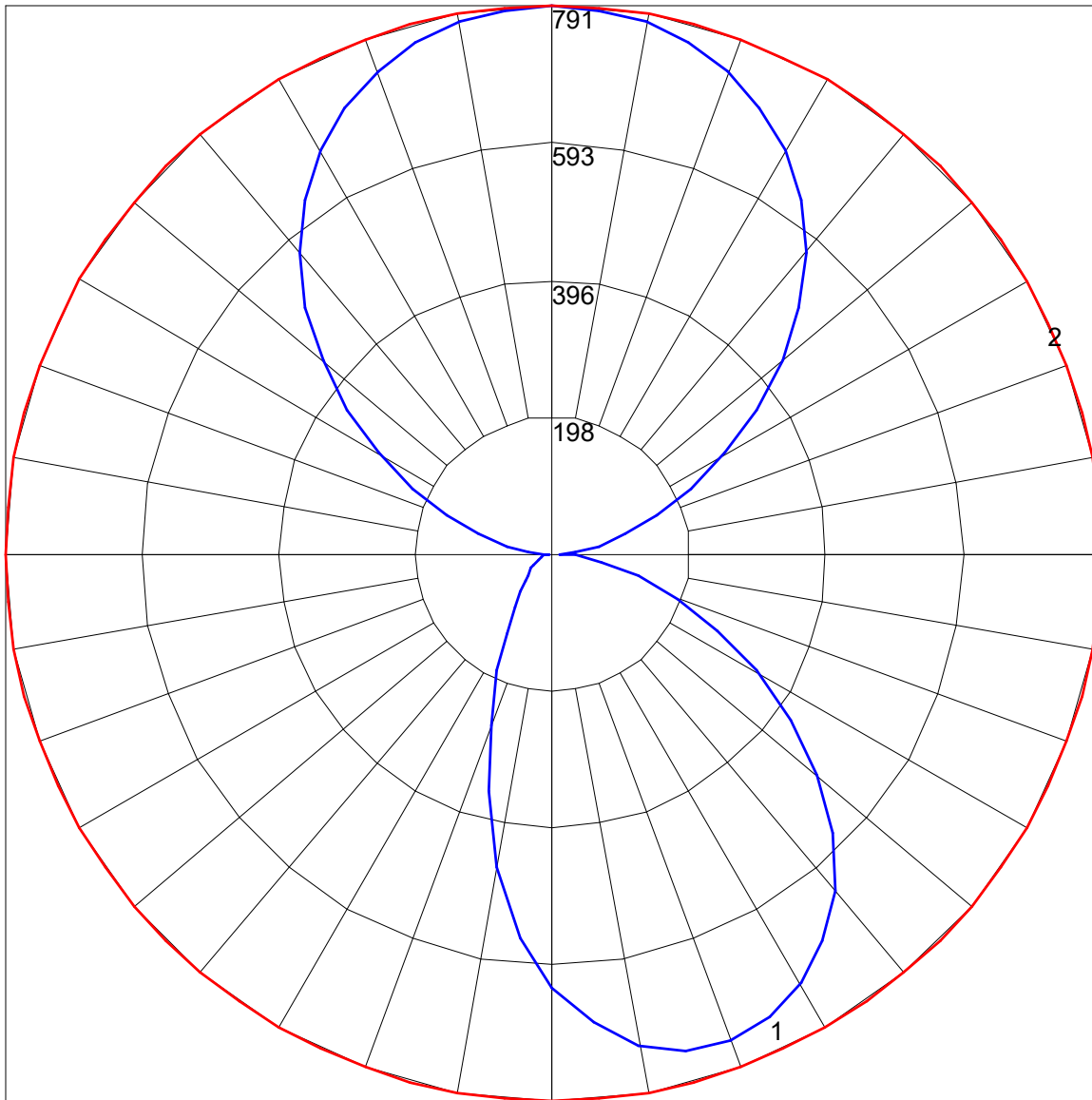
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	62	62	62	47	47	47	40
1	96	92	88	85	87	84	80	78	69	66	64	55	53	52	42	41	40	34
2	87	80	74	69	79	73	68	64	60	57	54	48	46	44	37	36	34	29
3	80	71	64	58	72	65	59	54	53	49	45	43	40	37	33	31	29	25
4	73	63	55	49	66	57	51	46	47	43	39	38	35	32	30	27	25	22
5	67	56	48	42	61	51	44	39	43	37	33	34	31	28	27	24	22	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	22	20	17
7	57	45	37	32	52	42	35	30	35	29	26	28	24	22	22	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	35	28	24	29	24	20	24	20	17	19	16	14	12
10	46	34	27	23	42	32	25	21	27	22	18	22	18	16	18	15	13	11

POLAR GRAPH



Maximum Candela = 791.12 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.)