

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-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	113	117	119	119
Total Lumens, 4' rail length (1219mm)	3363	3470	3540	3540
Lumens per foot (305mm)	841	867	885	885
Lumens per foot UP (305mm)	499	514	525	525
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_U1A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911545 (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-AL

[LUMINAIRE] ZipThree LED, 48", 3500K, 80 CRI, zipper board, symmetric lens 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	3540
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	34.80	34.80	34.80	34.22	33.64	33.06	32.48	31.90	30.74	30.16
100	67.86	67.86	67.86	67.28	67.28	66.70	66.70	66.12	65.54	64.96
105	110.20	110.20	110.20	110.20	110.20	110.20	110.20	109.62	109.62	109.62
110	161.24	161.24	161.82	161.82	161.82	161.82	162.40	162.40	162.98	162.98
115	220.40	220.98	220.98	220.98	221.56	222.14	222.72	223.30	223.88	224.46
120	287.10	287.10	287.68	287.68	288.26	288.84	290.00	290.58	291.74	292.90
125	358.44	358.44	358.44	359.02	359.60	360.76	361.34	362.50	364.24	365.40
130	430.36	430.36	430.94	431.52	432.10	432.68	433.84	435.00	436.74	437.90
135	499.38	499.96	499.96	500.54	501.70	502.28	503.44	504.60	505.76	507.50
140	563.76	563.76	563.76	564.34	564.92	566.08	566.66	567.82	568.98	570.14
145	619.44	619.44	619.44	620.02	620.60	621.18	621.76	622.92	623.50	624.08
150	667.00	667.00	667.00	667.00	667.58	668.16	668.74	669.32	669.90	670.48
155	705.86	705.86	705.86	705.86	706.44	706.44	707.02	707.02	707.60	707.60
160	736.60	736.60	736.60	736.60	737.18	737.18	737.18	737.18	737.76	737.76
165	759.80	759.80	759.80	759.80	759.80	759.80	759.80	760.38	760.38	760.38
170	775.46	775.46	776.04	775.46	775.46	775.46	775.46	776.04	776.04	776.04
175	784.74	784.74	784.74	784.74	784.74	784.74	784.74	784.74	784.74	784.74
180	787.06	787.06	787.06	787.06	787.06	787.06	787.06	787.06	787.06	787.06

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	24.94	24.36	23.78	23.20	23.78
100	64.38	63.22	62.64	62.06	61.48	60.90	60.90	60.32	59.74	60.32
105	109.62	109.04	109.04	108.46	108.46	107.88	107.88	107.88	107.30	107.88
110	162.98	163.56	163.56	164.14	164.14	164.14	164.14	164.14	164.14	164.14
115	225.04	225.62	226.20	226.78	227.36	227.94	228.52	228.52	228.52	228.52
120	293.48	294.64	295.80	296.96	298.12	298.70	299.28	299.28	299.28	299.28
125	366.56	367.72	369.46	370.62	371.78	372.36	372.94	373.52	373.52	373.52
130	439.64	440.80	442.54	443.70	444.86	445.44	446.02	446.60	446.60	446.60
135	508.66	509.82	510.98	512.14	513.30	513.88	514.46	515.04	515.04	515.04
140	571.30	572.46	573.04	574.20	574.78	575.36	575.94	576.52	576.52	576.52
145	625.24	625.82	626.98	626.98	628.14	628.14	628.72	628.72	629.30	628.72
150	671.06	671.64	671.64	672.22	672.80	672.80	672.80	673.38	673.38	673.38
155	708.18	708.18	708.76	708.76	709.34	709.34	709.34	709.34	709.34	709.34
160	738.34	738.34	738.34	738.34	738.34	738.34	738.92	738.92	738.92	738.92
165	760.38	760.38	760.38	760.38	760.96	760.96	760.96	760.96	760.96	760.96
170	776.04	776.04	776.04	776.04	776.04	776.04	776.04	776.04	776.04	776.04
175	784.74	784.74	784.74	784.74	784.74	784.74	785.32	784.74	784.74	784.74
180	787.06	787.06	787.06	787.06	787.06	787.06	787.06	787.06	787.06	787.06

**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	24.36	24.94	25.52	26.10	27.26	27.84	29.00	30.16	30.74	31.90
100	60.90	60.90	61.48	62.06	62.64	63.22	64.38	64.96	65.54	66.12
105	107.88	107.88	108.46	108.46	109.04	109.04	109.62	109.62	109.62	109.62
110	164.14	164.14	164.14	164.14	163.56	163.56	162.98	162.98	162.98	162.40
115	228.52	227.94	227.36	226.78	226.20	225.62	225.04	224.46	223.88	223.30
120	299.28	298.70	298.12	296.96	295.80	294.64	293.48	292.90	291.74	290.58
125	372.94	372.36	371.78	370.62	369.46	367.72	366.56	365.40	364.24	362.50
130	446.02	445.44	444.86	443.70	442.54	440.80	439.64	437.90	436.74	435.00
135	514.46	513.88	513.30	512.14	510.98	509.82	508.66	507.50	505.76	504.60

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CANDELA TABULATION - (Cont.)

140	575.94	575.36	574.78	574.20	573.04	572.46	571.30	570.14	568.98	567.82
145	628.72	628.14	628.14	626.98	626.98	625.82	625.24	624.08	623.50	622.92
150	672.80	672.80	672.80	672.22	671.64	671.64	671.06	670.48	669.90	669.32
155	709.34	709.34	709.34	708.76	708.76	708.18	708.18	707.60	707.60	707.02
160	738.92	738.34	738.34	738.34	738.34	738.34	738.34	737.76	737.76	737.18
165	760.96	760.96	760.96	760.38	760.38	760.38	760.38	760.38	760.38	760.38
170	776.04	776.04	776.04	776.04	776.04	776.04	776.04	776.04	776.04	776.04
175	785.32	784.74	784.74	784.74	784.74	784.74	784.74	784.74	784.74	784.74
180	787.06	787.06	787.06	787.06	787.06	787.06	787.06	787.06	787.06	787.06

Vert. 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	32.48	33.06	33.64	34.22	34.80	34.80	34.80
100	66.70	66.70	67.28	67.28	67.86	67.86	67.86
105	110.20	110.20	110.20	110.20	110.20	110.20	110.20
110	162.40	161.82	161.82	161.82	161.82	161.24	161.24
115	222.72	222.14	221.56	220.98	220.98	220.98	220.40
120	290.00	288.84	288.26	287.68	287.68	287.10	287.10
125	361.34	360.76	359.60	359.02	358.44	358.44	358.44
130	433.84	432.68	432.10	431.52	430.94	430.36	430.36
135	503.44	502.28	501.70	500.54	499.96	499.96	499.38
140	566.66	566.08	564.92	564.34	563.76	563.76	563.76
145	621.76	621.18	620.60	620.02	619.44	619.44	619.44
150	668.74	668.16	667.58	667.00	667.00	667.00	667.00
155	707.02	706.44	706.44	705.86	705.86	705.86	705.86
160	737.18	737.18	737.18	736.60	736.60	736.60	736.60
165	759.80	759.80	759.80	759.80	759.80	759.80	759.80
170	775.46	775.46	775.46	775.46	776.04	775.46	775.46
175	784.74	784.74	784.74	784.74	784.74	784.74	784.74
180	787.06	787.06	787.06	787.06	787.06	787.06	787.06

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_LO_35_U1A1.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	220.75	N.A.	6.20
0-30	452.34	N.A.	12.80
0-40	717.36	N.A.	20.30
0-60	1194.03	N.A.	33.70
0-80	1418.99	N.A.	40.10
0-90	1440.79	N.A.	40.70
10-90	1381.94	N.A.	39.00
20-40	496.61	N.A.	14.00
20-50	756.67	N.A.	21.40
40-70	624.82	N.A.	17.60
60-80	224.96	N.A.	6.40
70-80	76.81	N.A.	2.20
80-90	21.80	N.A.	0.60
90-110	153.14	N.A.	4.30
90-120	377.06	N.A.	10.70
90-130	704.08	N.A.	19.90
90-150	1484.49	N.A.	41.90
90-180	2099.67	N.A.	59.30
110-180	1946.53	N.A.	55.00
0-180	3540.46	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	35.50
100-110	117.64
110-120	223.92
120-130	327.03
130-140	390.54
140-150	389.86
150-160	325.98
160-170	214.59
170-180	74.62

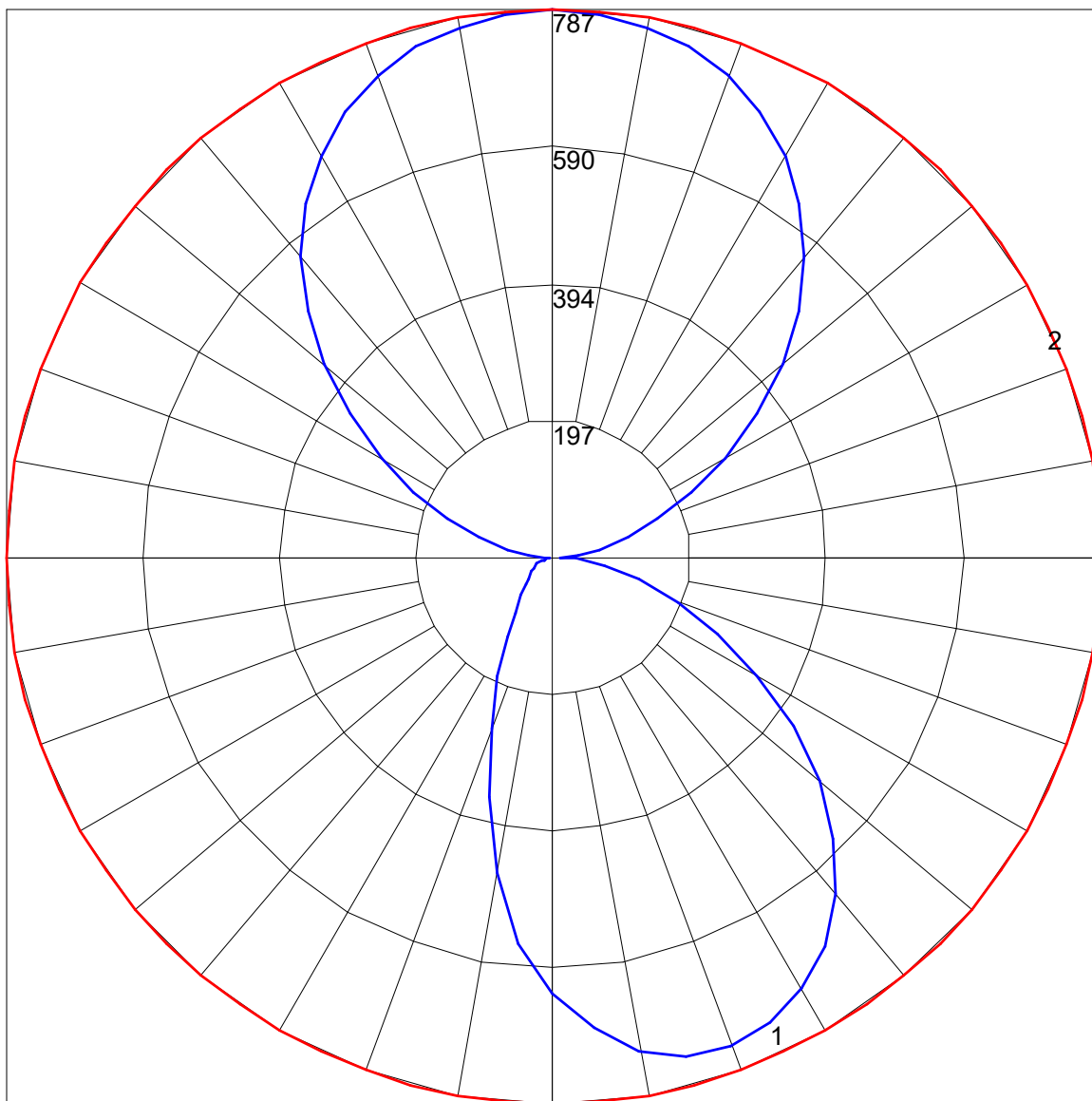
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	48	48	48	41
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	42	41	41	35
2	87	80	74	69	79	73	68	64	60	57	54	49	46	44	37	36	34	29
3	80	71	64	58	73	65	59	54	53	49	45	43	40	37	33	31	29	25
4	73	63	55	49	66	57	51	46	48	43	39	38	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	24	22	19
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	28	25	22	22	20	18	15
8	53	41	33	28	48	38	31	26	32	27	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 = 787.06 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.)