

IES Report

ZipThree[®] | 707 | Symmetric, up | 85° Asymmetric, down | 90 CRI | LO

707-Z3-4-48-XX-XX-X-0-Z-LO-359-U1A1-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	77	79	84	85
Total Lumens, 4' rail length (1219mm)	2357	2431	2531	2548
Lumens per foot (305mm)	589	608	633	637
Lumens per foot UP (305mm)	382	395	411	401
Lumens per foot DOWN (305mm)	207	213	222	236
Input Power (W), 4' rail length (1219mm)	30.8	30.8	30.8	30.8
Watts per foot (305mm)	7.8	7.8	7.8	7.8
CRI	96	96	96	96

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_359_U1A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L091700107 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 11/1/2017
[MANUFAC] Vode Lighting
[LUMCAT] 707-Z3-48-Z-LO-359-U1A1
[LUMINAIRE] ZipThree LED, 48", 3500K, 90 CRI, zipper board,
[MORE] symmetric up/85 deg asymmetric down, low output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2481
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	30.82
Ballast Factor	1.00
CIE Type	Semi-Indirect
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)	0.19 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	8607	8134	3162
55	7738	7563	3028
65	6287	6241	2697
75	4537	4533	2211
85	2111	2070	1234

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	218.0	218.0	218.0	218.0	218.0	218.0	218.0	218.0	218.0	218.0
5	281.0	280.5	280.0	278.5	276.5	274.5	271.5	268.5	265.0	261.0
10	355.0	354.5	352.5	349.5	345.5	340.5	334.5	327.5	319.5	310.5
15	427.5	426.5	424.0	419.5	413.5	406.0	397.0	386.0	374.0	360.0
20	487.5	486.5	483.5	478.5	471.5	462.5	452.0	438.5	423.0	406.0
25	527.5	526.5	524.0	519.0	512.0	503.5	492.0	478.5	461.5	442.5
30	544.0	543.0	541.0	537.0	531.0	523.5	513.5	501.0	485.0	466.5
35	538.5	538.0	536.0	533.0	528.5	522.0	514.0	504.0	491.0	474.5
40	514.0	513.5	512.0	510.0	506.5	502.0	496.0	488.0	477.5	464.0
45	473.0	473.0	472.0	470.5	468.0	465.0	460.5	454.5	446.5	436.0
50	420.0	420.0	419.5	418.0	416.5	414.0	411.0	406.5	401.0	393.5
55	359.0	358.5	358.0	357.5	356.0	354.0	351.5	348.5	344.5	339.0
60	293.5	293.5	293.0	292.5	291.5	290.0	288.0	285.5	282.0	278.0
65	229.0	229.0	228.5	228.0	227.0	226.0	224.0	222.0	219.5	216.5
70	169.0	168.5	168.5	168.0	167.0	166.0	164.5	163.0	161.5	159.0
75	115.0	115.0	114.5	114.0	113.5	112.5	111.5	110.0	108.5	106.5
80	67.5	67.5	67.0	66.5	66.0	65.5	64.5	63.5	62.5	61.0
85	28.5	28.5	28.5	28.0	27.5	27.0	26.5	26.0	25.0	24.0
90	10.5	10.5	10.5	10.5	10.0	9.5	9.0	8.5	7.5	7.0
95	33.5	33.5	33.0	33.0	32.5	32.0	31.0	30.5	29.5	28.0
100	64.5	64.0	64.0	64.0	63.5	63.0	62.0	61.5	60.5	59.0
105	101.0	101.0	101.0	101.0	100.5	100.0	99.5	99.0	98.0	97.0
110	145.0	145.0	145.0	145.0	145.0	144.5	144.0	143.0	142.5	141.5
115	195.0	195.0	195.0	195.0	194.5	194.5	194.0	193.0	192.5	191.5
120	249.5	249.5	249.5	249.0	249.0	249.0	248.5	248.5	247.5	247.0
125	305.5	305.5	305.5	305.5	305.0	305.0	305.0	305.0	304.5	304.0
130	360.5	360.5	360.0	360.0	360.0	360.0	360.0	359.5	359.5	359.5
135	411.0	411.0	411.0	411.0	410.5	410.5	410.5	410.5	410.5	410.5
140	456.0	456.0	456.0	456.0	456.0	455.5	455.5	455.5	455.5	455.5
145	495.0	495.0	495.0	495.0	495.0	494.5	494.5	494.5	494.5	494.0
150	528.0	528.0	528.0	527.5	527.5	527.5	527.0	527.0	527.0	526.5
155	555.0	555.0	555.0	554.5	554.5	554.5	554.0	554.0	553.5	553.5
160	576.0	576.0	576.0	576.0	576.0	575.5	575.5	575.0	575.0	574.5
165	592.0	592.0	592.0	592.0	591.5	591.5	591.5	591.0	591.0	591.0
170	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.0	602.0	602.0
175	609.0	609.0	609.0	609.0	609.0	608.5	608.5	608.5	608.5	608.5
180	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5

Vert. Horizontal Angles
 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	218.0	218.0	218.0	218.0	218.0	218.0	218.0	218.0	218.0	218.0
5	257.0	252.5	247.5	242.5	237.5	232.5	227.5	222.5	217.0	212.5
10	301.0	291.0	280.0	269.0	258.5	247.5	236.0	225.5	215.0	205.5
15	345.5	329.5	312.5	295.5	278.5	260.5	243.5	227.5	211.5	197.0
20	387.0	366.0	343.5	320.0	296.5	272.5	249.5	227.5	206.5	188.0
25	421.5	396.5	369.5	341.0	312.0	282.0	253.5	226.0	200.0	177.5
30	444.5	418.5	389.0	356.5	323.5	288.5	255.0	222.0	192.0	166.5
35	454.0	428.5	399.0	365.0	329.5	290.5	251.5	215.5	183.0	154.5
40	446.0	424.5	397.0	364.0	327.5	288.0	245.0	206.5	168.5	140.0
45	422.5	404.5	380.0	351.0	316.5	277.5	235.0	195.0	158.0	125.5
50	383.0	369.0	350.5	326.0	294.5	258.5	217.5	173.0	141.5	110.5
55	331.5	321.0	307.0	288.0	261.5	229.0	193.5	157.5	123.0	94.5
60	272.5	265.0	254.5	239.5	219.5	193.0	164.0	132.5	103.0	78.5

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CANDELA TABULATION - (Cont.)

65	212.0	206.5	198.5	187.5	172.5	153.0	130.0	104.5	81.0	62.5
70	155.5	151.0	145.0	137.0	126.5	112.5	95.0	77.5	60.5	46.5
75	104.0	101.0	96.5	91.0	84.0	75.0	63.5	51.5	41.0	31.5
80	59.0	57.0	54.5	51.0	47.0	41.5	35.5	29.0	23.0	17.5
85	23.0	22.0	20.5	19.0	17.5	15.5	13.0	10.5	8.0	6.5
90	6.0	5.0	4.0	3.5	2.5	2.0	1.5	1.0	0.5	0.5
95	27.0	25.5	24.0	22.5	21.0	19.5	18.0	16.5	15.0	13.5
100	58.0	56.5	55.0	53.0	51.5	49.0	47.0	45.0	42.5	40.5
105	95.5	94.0	92.5	90.5	88.5	86.5	84.0	81.5	79.0	76.5
110	140.0	138.5	137.0	135.5	133.5	131.5	129.0	126.5	123.5	120.5
115	190.5	189.5	188.0	186.5	185.0	183.0	180.5	178.0	175.0	171.5
120	246.0	245.0	244.5	243.0	242.0	240.0	237.5	235.0	232.0	229.0
125	303.5	302.5	302.0	301.0	300.0	298.5	296.0	294.0	291.0	288.0
130	359.0	358.5	358.0	357.0	356.0	354.5	352.5	350.5	348.0	345.5
135	410.5	410.0	409.5	408.5	407.5	406.0	404.5	402.5	400.5	399.0
140	455.5	455.0	454.5	453.5	452.5	451.5	450.0	448.5	447.5	446.0
145	494.0	493.5	493.0	492.0	491.5	490.5	489.5	488.5	487.5	486.5
150	526.0	525.5	525.0	524.5	523.5	523.0	522.0	521.5	521.0	520.0
155	553.0	552.5	552.0	551.5	551.0	550.0	549.5	549.0	549.0	548.5
160	574.0	574.0	573.5	573.0	572.5	572.0	572.0	571.5	571.5	571.0
165	590.5	590.5	590.0	589.5	589.5	589.5	589.0	589.0	588.5	588.5
170	602.0	601.5	601.5	601.5	601.5	601.0	601.0	601.0	601.0	601.0
175	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.0
180	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5

Vert. Angles **Horizontal Angles**

	100	105	110	115	120	125	130	135	140	145
0	218.0	218.0	218.0	218.0	218.0	218.0	218.0	218.0	218.0	218.0
5	207.5	202.5	198.5	194.0	190.0	186.5	183.0	180.0	177.0	174.5
10	196.0	186.5	178.5	170.5	163.5	157.0	151.5	146.0	141.5	137.5
15	183.5	170.5	159.5	149.0	139.5	131.5	124.5	118.0	112.5	108.0
20	171.0	155.0	141.0	129.5	118.5	109.5	102.0	95.0	89.5	85.0
25	157.5	139.5	124.0	111.0	99.5	90.5	83.5	76.5	71.5	67.0
30	144.0	124.0	108.0	95.0	83.5	75.0	68.0	62.0	57.5	54.0
35	130.5	110.0	93.5	80.5	70.0	62.0	56.0	51.0	47.5	44.5
40	115.5	95.0	79.5	67.5	58.0	51.5	46.5	42.5	40.0	38.0
45	101.0	81.5	67.0	56.5	48.5	43.0	39.5	36.5	34.5	33.5
50	87.0	69.5	56.5	47.0	41.5	36.5	33.5	31.5	30.0	29.0
55	73.0	58.0	47.0	41.0	34.5	31.0	29.0	27.0	26.0	25.5
60	60.5	47.5	40.5	33.0	28.5	26.0	24.0	23.0	22.0	21.0
65	48.0	39.0	31.0	26.5	23.5	21.0	19.5	18.5	17.5	17.0
70	36.5	28.5	23.5	20.5	18.0	16.0	15.0	14.0	13.0	12.5
75	24.5	19.5	16.5	14.0	12.5	11.0	10.0	9.5	9.0	8.5
80	14.0	11.5	9.5	8.0	7.0	6.5	5.5	5.5	5.0	4.5
85	5.0	4.0	3.5	3.0	2.5	2.5	2.0	2.0	2.0	1.5
90	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
95	12.5	11.5	10.5	9.5	8.5	8.0	7.5	7.0	6.5	6.5
100	38.5	37.0	35.0	33.5	32.0	30.5	29.0	28.0	27.0	26.0
105	74.0	71.5	69.0	67.0	64.5	62.5	60.5	58.5	57.0	55.5
110	117.5	114.5	111.5	108.5	106.0	103.0	100.5	98.0	95.5	93.0
115	168.0	165.0	161.5	158.5	155.0	151.5	148.5	145.0	142.5	139.5
120	225.5	222.0	218.5	214.5	210.5	207.0	203.5	200.0	196.5	193.5
125	285.0	281.5	278.0	274.5	270.5	267.0	263.5	260.0	256.5	253.5
130	343.0	340.5	337.5	334.5	331.0	328.0	324.5	321.0	318.0	315.0
135	397.0	395.0	392.5	390.5	387.5	385.0	382.0	379.5	376.5	374.0

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CANDELA TABULATION - (Cont.)

140	444.5	443.0	441.5	440.0	438.0	436.0	434.0	431.5	430.0	428.0
145	485.5	484.5	483.5	482.5	481.0	479.5	478.5	477.0	475.5	474.0
150	519.5	519.0	518.5	518.0	517.0	516.0	515.5	514.5	513.5	513.0
155	548.0	547.5	547.5	547.0	546.5	546.0	545.5	545.0	544.5	544.5
160	571.0	570.5	570.5	570.0	570.0	570.0	569.5	569.5	569.0	569.0
165	588.5	588.5	588.0	588.0	588.0	588.0	588.0	588.0	587.5	587.5
170	601.0	600.5	600.5	600.5	600.5	600.5	600.5	600.5	600.5	600.5
175	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0
180	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5

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	218.0	218.0	218.0	218.0	218.0	218.0	218.0
5	172.0	170.5	169.0	168.0	167.0	166.5	166.5
10	134.0	131.0	128.5	127.0	125.5	125.0	124.5
15	104.0	101.0	98.5	96.5	95.0	94.0	93.5
20	81.0	78.0	75.5	73.5	72.5	71.5	71.5
25	63.5	61.0	59.0	57.5	56.0	55.5	55.5
30	51.0	49.0	47.5	46.0	45.5	45.0	45.0
35	42.5	41.5	40.0	39.5	39.0	38.5	38.5
40	37.0	36.0	35.0	34.5	34.5	34.0	34.0
45	32.5	31.5	31.0	31.0	30.5	30.5	30.5
50	28.5	28.0	27.5	27.5	27.0	27.0	27.0
55	24.5	24.0	24.0	23.5	23.5	23.5	23.5
60	20.5	20.0	20.0	19.5	19.5	19.5	19.5
65	16.5	16.0	15.5	15.5	15.0	15.0	15.0
70	12.0	12.0	11.5	11.5	11.0	11.0	11.0
75	8.0	8.0	7.5	7.5	7.5	7.5	7.0
80	4.5	4.5	4.0	4.0	4.0	4.0	4.0
85	1.5	1.5	1.5	1.5	1.5	1.5	1.5
90	0.5	0.5	0.5	0.0	0.0	0.0	0.0
95	6.0	6.0	6.0	6.0	5.5	5.5	5.5
100	25.0	24.5	24.0	23.5	23.0	23.0	23.0
105	54.0	52.5	51.5	50.5	50.0	49.5	49.5
110	91.5	89.5	88.0	87.0	86.0	85.5	85.5
115	137.0	135.0	133.0	131.5	130.5	130.0	129.5
120	191.0	188.5	186.5	184.5	183.5	182.5	182.5
125	250.5	248.0	245.5	244.0	243.0	242.0	241.5
130	312.5	310.0	308.0	306.0	305.0	304.0	304.0
135	372.0	370.0	368.0	367.0	365.5	365.0	365.0
140	426.0	424.5	423.0	422.5	421.5	421.0	421.0
145	473.0	472.0	471.0	470.0	469.5	469.5	469.0
150	512.0	511.5	510.5	510.5	510.0	510.0	509.5
155	544.0	543.5	543.0	543.0	542.5	542.5	542.5
160	569.0	568.5	568.5	568.5	568.0	568.0	568.0
165	587.5	587.5	587.5	587.5	587.5	587.5	587.5
170	600.5	600.5	600.5	600.5	600.5	600.5	600.5
175	608.0	608.0	608.0	608.0	608.0	608.0	608.0
180	610.5	610.5	610.5	610.5	610.5	610.5	610.5

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	88.81	N.A.	3.60
0-30	205.38	N.A.	8.30
0-40	361.05	N.A.	14.60
0-60	684.94	N.A.	27.60
0-80	854.52	N.A.	34.40
0-90	870.82	N.A.	35.10
10-90	849.55	N.A.	34.20
20-40	272.23	N.A.	11.00
20-50	442.67	N.A.	17.80
40-70	434.42	N.A.	17.50
60-80	169.58	N.A.	6.80
70-80	59.06	N.A.	2.40
80-90	16.30	N.A.	0.70
90-110	106.06	N.A.	4.30
90-120	274.35	N.A.	11.10
90-130	526.63	N.A.	21.20
90-150	1133.27	N.A.	45.70
90-180	1610.27	N.A.	64.90
110-180	1504.21	N.A.	60.60
0-180	2481.1	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	21.28
10-20	67.54
20-30	116.57
30-40	155.66
40-50	170.44
50-60	153.45
60-70	110.52
70-80	59.06
80-90	16.30
90-100	22.23
100-110	83.82
110-120	168.29
120-130	252.28
130-140	303.68
140-150	302.96
150-160	252.86
160-170	166.31
170-180	57.84

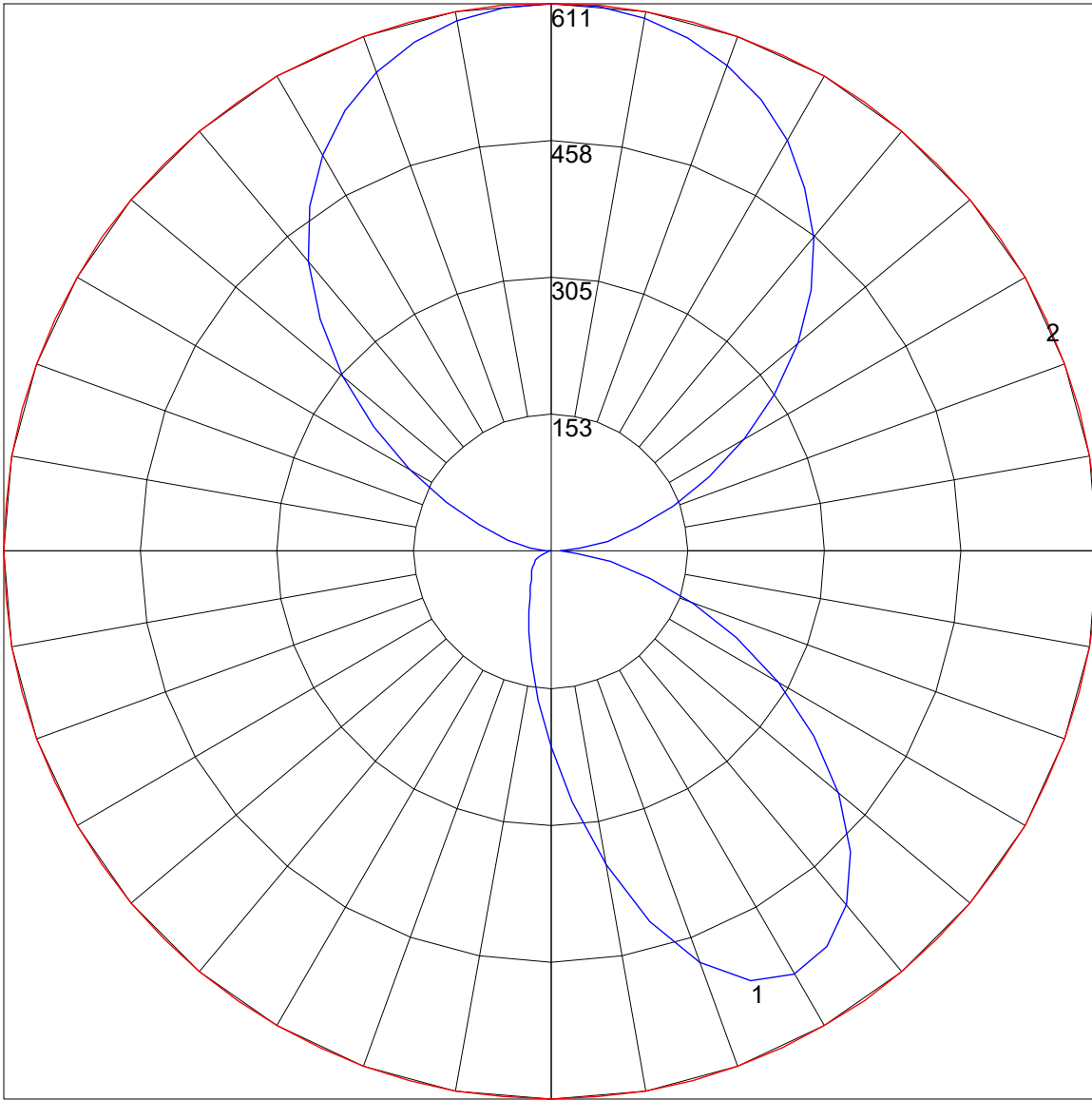
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35
1	94	90	86	83	85	81	78	75	65	63	61	51	49	48	37	36	35	29
2	86	78	72	67	77	71	66	61	57	53	50	44	42	40	32	31	30	24
3	78	69	61	55	70	62	56	51	50	46	42	39	36	33	29	27	25	20
4	71	60	53	47	64	55	48	43	44	39	35	34	31	28	25	23	21	17
5	65	54	45	40	58	49	42	36	39	34	30	31	27	24	23	20	18	15
6	60	48	40	34	54	43	36	31	35	30	26	27	24	21	20	18	16	13
7	55	43	35	29	49	39	32	27	32	26	23	25	21	18	18	16	14	11
8	51	39	31	26	46	35	28	24	29	24	20	23	19	16	17	14	12	10
9	47	35	28	23	43	32	25	21	26	21	18	21	17	14	15	13	11	9
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10	8

POLAR GRAPH



Maximum Candela = 610.5 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)