

IES Report

ZipOne® | 707 | 100° Asymmetric | 90 CRI | LO

707-Z1-4-48-X-XX-X-0-Z-LO-359-A2-X-AL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	85	87	89	90
Total Lumens, 4' rail length (1219mm)	1370	1413	1442	1456
Lumens per foot (305mm)	342	353	361	364
Input Power (W), 4' rail length (1219mm)	16.3	16.3	16.3	16.3
Watts per foot (305mm)	4.1	4.1	4.1	4.1
CRI	94	94	94	94

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_Z1_LO_359_A2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911522 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z1-48-Z-LO-359-A2-AL

[LUMINAIRE] ZipOne LED, 48", 3500K, 90 CRI, zipper board,

[MORE] 100° asymmetric lens, 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	1442
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	14.89
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.44
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.06 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	32671	31365	25156
55	31091	29285	21905
65	28184	26000	17902
75	24620	22010	13745
85	22218	18343	8784

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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	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0
5	669.0	669.0	668.0	668.0	667.0	666.5	665.5	664.5	663.0	661.0
10	684.0	684.0	683.0	682.5	682.0	680.5	679.0	677.0	675.0	672.5
15	685.5	685.5	685.0	684.5	683.0	682.0	680.0	678.5	675.5	673.0
20	676.5	676.0	675.5	675.5	674.0	673.0	671.0	669.0	666.5	664.0
25	658.5	658.5	658.0	657.5	656.5	655.0	653.5	651.5	648.5	645.5
30	633.5	633.0	633.0	632.0	631.0	629.5	627.5	625.5	622.5	620.0
35	601.0	600.5	600.0	599.0	597.5	595.5	593.5	591.5	588.5	585.0
40	560.5	560.5	559.5	558.5	556.5	555.0	552.5	549.5	546.0	542.5
45	513.0	512.5	511.5	510.5	508.5	506.0	503.0	500.0	496.5	492.5
50	457.5	457.0	456.0	454.5	452.5	450.0	447.0	443.5	439.5	435.0
55	396.0	395.5	394.5	393.0	391.0	388.0	385.0	381.0	377.5	373.0
60	331.0	330.5	329.5	328.0	326.0	323.5	320.5	316.5	312.5	308.5
65	264.5	264.5	263.5	262.0	260.0	258.0	255.0	252.0	248.0	244.0
70	200.5	200.5	199.5	198.5	196.5	194.5	192.0	189.0	186.0	182.5
75	141.5	141.5	140.5	139.5	138.0	136.5	134.5	132.0	129.0	126.5
80	87.5	87.5	87.0	86.0	85.0	83.5	82.0	80.5	78.0	76.0
85	43.0	43.0	43.0	42.0	41.5	40.5	39.5	38.0	36.5	35.5
90	14.5	14.5	14.0	14.0	13.5	13.0	12.0	11.5	11.0	10.0
95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0
5	659.5	658.0	656.0	653.5	651.0	648.5	645.5	643.0	640.0	637.0
10	669.5	666.5	663.0	659.0	654.5	649.5	643.5	638.5	632.0	625.0
15	669.5	666.0	661.0	655.5	650.0	643.5	635.5	627.5	618.0	607.5
20	660.0	656.0	651.0	645.0	638.5	630.0	620.5	610.0	597.5	583.0
25	642.0	638.0	632.5	626.5	619.0	609.5	599.0	586.0	570.5	552.5
30	616.0	611.5	606.5	600.0	592.0	582.0	570.0	555.5	537.0	515.5
35	581.5	577.0	571.5	565.0	557.0	546.5	533.5	517.0	495.5	471.5
40	538.5	534.0	528.5	522.0	514.0	503.0	489.0	471.5	448.5	421.5
45	488.0	483.5	477.5	471.0	462.5	451.5	438.0	419.5	395.0	367.0
50	430.5	425.5	419.5	413.0	404.5	394.0	379.5	361.5	338.5	308.5
55	368.0	363.0	357.0	350.5	342.5	332.5	318.5	301.0	279.0	251.0
60	303.5	298.5	292.5	286.0	278.5	269.0	256.5	241.0	221.0	197.0

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CANDELA TABULATION - (Cont.)

65	239.5	235.0	229.5	223.5	216.5	208.0	197.0	184.0	168.0	148.5
70	178.5	174.5	170.0	165.5	159.5	152.0	143.5	132.5	120.0	106.0
75	123.5	120.0	116.0	112.0	107.5	102.0	95.5	88.0	79.0	69.5
80	73.5	71.0	68.0	65.5	62.0	58.0	54.0	49.0	44.0	39.0
85	34.0	32.0	30.5	28.5	26.5	24.0	22.0	19.5	17.0	15.5
90	9.5	8.5	7.5	6.5	5.5	4.0	2.5	1.5	1.0	1.0
95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. Horizontal Angles
Angles

	100	105	110	115	120	125	130	135	140	145
0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0
5	634.0	631.0	628.0	625.0	622.0	619.0	616.5	613.5	611.0	609.0
10	618.5	611.0	604.0	596.5	589.0	582.0	574.5	567.5	561.0	555.0
15	597.0	585.0	572.5	560.0	546.0	533.5	521.0	508.0	496.5	485.5
20	567.5	551.0	533.0	514.0	495.0	476.0	457.5	438.5	422.0	406.0
25	533.0	510.5	486.5	461.5	435.0	410.5	386.5	363.0	342.5	323.5
30	491.0	463.5	433.5	403.5	371.5	342.0	315.0	289.5	266.5	248.0
35	443.0	410.5	376.5	342.5	307.0	276.0	248.5	222.5	202.0	185.5
40	390.0	354.5	317.5	282.0	246.5	217.0	191.0	169.0	151.0	137.5
45	334.0	297.5	260.0	226.0	193.0	167.0	145.5	127.0	113.0	102.5
50	276.0	241.0	207.5	177.0	150.0	128.0	110.0	96.0	86.0	77.5
55	221.5	190.5	161.5	135.5	114.5	97.5	84.0	73.5	65.5	60.0
60	171.0	147.0	123.0	103.5	87.0	74.0	64.0	56.5	51.0	46.5
65	129.0	110.0	92.0	76.5	65.0	55.5	48.0	42.5	38.5	35.5
70	91.5	78.0	65.5	55.5	46.5	41.0	35.0	31.5	28.5	26.0
75	60.5	51.5	43.5	37.0	31.5	27.0	24.0	21.5	19.5	18.0
80	34.0	29.5	25.0	21.5	18.5	16.0	14.5	13.0	11.5	11.0
85	13.5	12.0	10.5	9.0	8.0	7.5	6.5	6.0	5.5	5.0
90	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.0	1.0
95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA TABULATION - (Cont.)

140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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	642.0	642.0	642.0	642.0	642.0	642.0	642.0
5	606.5	605.0	603.5	602.5	601.5	601.0	600.5
10	549.5	544.5	540.5	537.5	535.0	533.5	533.5
15	476.0	467.5	460.5	454.5	450.5	448.0	447.0
20	392.0	380.0	370.5	362.5	357.0	353.5	352.5
25	307.0	294.0	283.0	274.0	268.0	264.5	263.0
30	232.0	218.5	208.0	200.0	194.5	191.5	190.5
35	171.5	160.5	151.5	145.0	140.5	138.0	137.0
40	126.0	117.5	111.0	106.0	103.0	101.0	100.5
45	94.5	88.0	83.5	80.0	77.5	76.5	76.0
50	71.5	67.5	64.0	61.5	60.0	59.0	59.0
55	55.5	52.5	50.0	48.0	47.0	46.5	46.0
60	43.0	41.0	39.0	38.0	37.0	36.5	36.5
65	33.0	31.5	30.0	29.0	28.5	28.0	28.0
70	24.5	23.0	22.0	21.5	21.0	20.5	20.5
75	16.5	16.0	15.0	14.5	14.5	14.0	14.0
80	10.0	9.5	9.5	9.0	9.0	8.5	8.5
85	5.0	4.5	4.5	4.5	4.5	4.0	4.0
90	1.0	1.0	1.0	1.0	1.0	1.0	1.0
95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	226.50	N.A.	15.70
0-30	461.39	N.A.	32.00
0-40	723.27	N.A.	50.20
0-60	1186.00	N.A.	82.20
0-80	1415.76	N.A.	98.20
0-90	1440.73	N.A.	99.90
10-90	1380.45	N.A.	95.70
20-40	496.76	N.A.	34.40
20-50	748.82	N.A.	51.90
40-70	611.32	N.A.	42.40
60-80	229.76	N.A.	15.90
70-80	81.18	N.A.	5.60
80-90	24.97	N.A.	1.70
90-110	1.42	N.A.	0.10
90-120	1.42	N.A.	0.10
90-130	1.42	N.A.	0.10
90-150	1.42	N.A.	0.10
90-180	1.42	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1442.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	60.28
10-20	166.22
20-30	234.89
30-40	261.88
40-50	252.06
50-60	210.68
60-70	148.58
70-80	81.18
80-90	24.97
90-100	1.42
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

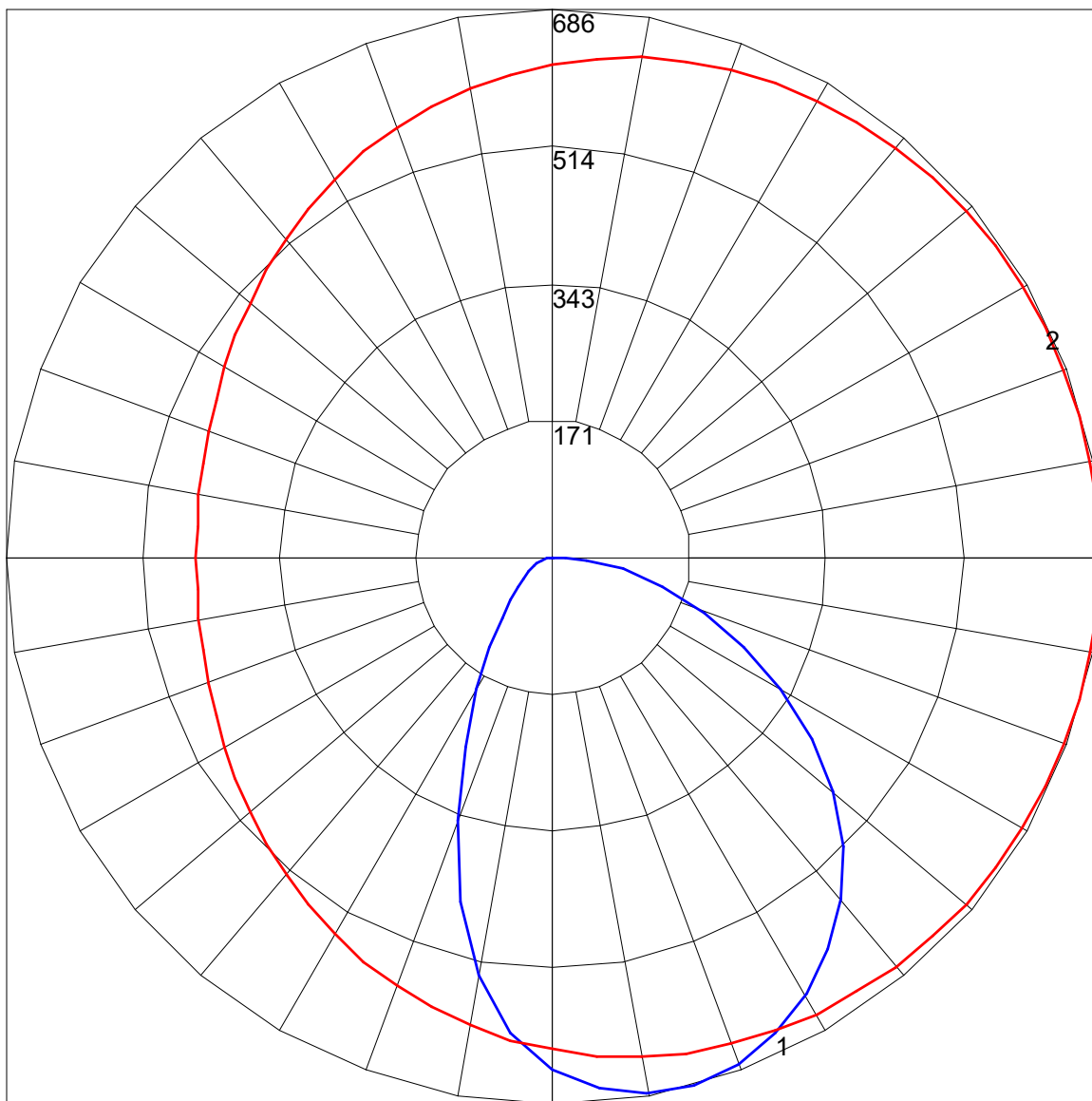
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	92	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	64	58	69	62	57	67	61	56	65	59	55	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	46
6	72	59	51	44	70	58	50	44	57	49	44	55	48	43	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	35	29	54	42	34	29	41	34	29	40	34	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 685.5 Located At Horizontal Angle = 0, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)