

IES Report

ZipWave® | 707 | Clear with EdgeSoft™, fixture in cove | 80 CRI | SO

707-Z9-4-48-AW / EW-XX-X-0-Z-SO-35-C1-0-AL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	64	66	68	69
Total Lumens, 4' rail length (1219mm)	1703	1757	1793	1829
Lumens per foot (305mm)	426	439	448	457
Input Power (W), 4' rail length (1219mm)	26.7	26.7	26.7	26.7
Watts per foot (305mm)	6.7	6.7	6.7	6.7
CRI	85	85	85	85

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_Z9_AW_SO_35_C1_IN COVE.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L101707604 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 11/1/2017
[MANUFAC] Vode Lighting
[LUMCAT] 707-Z9-48-AW-Z-SO-35-C1
[LUMINAIRE] ZipWave LED, 48", Armstrong wall cove part no. AXIDLCWKE48, 3500K, 80 CRI,
[MORE] zipper board, clear lens w/edge softening, standard output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1793
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	26.65
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.38
Spacing Criterion (90-270)	2.24
Spacing Criterion (Diagonal)	3.50
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	55	1047	4521
55	0	1359	6117
65	0	1660	8763
75	0	1807	14309
85	0	2684	34440

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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	58.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00
5	42.92	42.92	42.92	42.92	44.08	44.08	45.24	46.40	46.40	47.56
10	31.32	31.32	31.32	32.48	32.48	33.64	34.80	35.96	38.28	39.44
15	22.04	22.04	23.20	23.20	24.36	25.52	27.84	29.00	30.16	32.48
20	15.08	15.08	16.24	16.24	18.56	19.72	22.04	24.36	26.68	29.00
25	5.80	5.80	6.96	9.28	11.60	13.92	16.24	18.56	22.04	25.52
30	3.48	3.48	4.64	5.80	6.96	8.12	11.60	15.08	18.56	22.04
35	3.48	3.48	3.48	4.64	6.96	8.12	10.44	12.76	16.24	19.72
40	3.48	3.48	3.48	5.80	6.96	9.28	11.60	13.92	17.40	19.72
45	1.16	2.32	3.48	4.64	6.96	9.28	11.60	15.08	18.56	22.04
50	0.00	1.16	2.32	4.64	6.96	9.28	12.76	15.08	19.72	23.20
55	0.00	1.16	2.32	4.64	6.96	9.28	11.60	15.08	19.72	23.20
60	0.00	1.16	2.32	3.48	5.80	8.12	11.60	15.08	18.56	23.20
65	0.00	1.16	2.32	3.48	5.80	6.96	10.44	12.76	16.24	20.88
70	0.00	1.16	2.32	3.48	4.64	6.96	9.28	11.60	15.08	17.40
75	0.00	2.32	2.32	3.48	4.64	5.80	6.96	9.28	11.60	13.92
80	0.00	2.32	2.32	2.32	3.48	4.64	4.64	6.96	8.12	10.44
85	0.00	2.32	2.32	2.32	2.32	3.48	3.48	4.64	5.80	6.96
90	0.00	2.32	2.32	2.32	2.32	2.32	3.48	3.48	4.64	4.64
95	0.00	2.32	2.32	2.32	3.48	3.48	3.48	4.64	4.64	5.80
100	0.00	2.32	2.32	3.48	3.48	4.64	5.80	5.80	6.96	9.28
105	0.00	2.32	3.48	3.48	4.64	5.80	6.96	9.28	10.44	12.76
110	0.00	3.48	3.48	4.64	5.80	8.12	9.28	11.60	13.92	18.56
115	0.00	3.48	4.64	5.80	8.12	10.44	12.76	16.24	19.72	24.36
120	0.00	4.64	4.64	6.96	9.28	12.76	16.24	20.88	25.52	32.48
125	0.00	4.64	5.80	8.12	11.60	16.24	18.56	25.52	33.64	40.60
130	0.00	3.48	5.80	9.28	12.76	17.40	23.20	32.48	41.76	48.72
135	0.00	3.48	5.80	9.28	13.92	19.72	27.84	39.44	45.24	49.88
140	0.00	3.48	5.80	9.28	12.76	18.56	26.68	35.96	46.40	49.88
145	0.00	4.64	5.80	8.12	11.60	17.40	24.36	31.32	40.60	48.72
150	0.00	4.64	4.64	5.80	6.96	15.08	22.04	27.84	33.64	40.60
155	0.00	4.64	4.64	4.64	5.80	9.28	15.08	20.88	25.52	30.16
160	0.00	4.64	4.64	4.64	5.80	6.96	9.28	12.76	15.08	18.56
165	0.00	4.64	4.64	4.64	5.80	6.96	8.12	9.28	10.44	10.44
170	0.00	3.48	3.48	3.48	3.48	3.48	4.64	4.64	5.80	5.80
175	0.00	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	58.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00
5	48.72	49.88	51.04	52.20	53.36	54.52	55.68	56.84	59.16	60.32
10	40.60	42.92	45.24	47.56	49.88	52.20	54.52	56.84	60.32	63.80
15	35.96	38.28	41.76	44.08	48.72	52.20	55.68	60.32	64.96	68.44
20	32.48	35.96	39.44	42.92	47.56	52.20	56.84	62.64	68.44	74.24
25	30.16	33.64	38.28	42.92	47.56	53.36	59.16	64.96	71.92	80.04
30	26.68	32.48	37.12	42.92	48.72	54.52	61.48	69.60	77.72	87.00
35	25.52	31.32	37.12	42.92	49.88	56.84	64.96	74.24	83.52	95.12
40	24.36	30.16	35.96	44.08	51.04	59.16	68.44	77.72	89.32	102.08
45	26.68	31.32	37.12	44.08	53.36	62.64	71.92	83.52	95.12	109.04
50	27.84	32.48	38.28	45.24	54.52	63.80	75.40	87.00	99.76	116.00
55	29.00	33.64	39.44	46.40	55.68	66.12	77.72	90.48	104.40	121.80
60	27.84	34.80	40.60	47.56	54.52	66.12	78.88	91.64	107.88	128.76

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CANDELA TABULATION - (Cont.)

65	25.52	32.48	39.44	45.24	54.52	64.96	77.72	92.80	110.20	133.40
70	22.04	26.68	35.96	42.92	49.88	61.48	74.24	91.64	111.36	136.88
75	16.24	22.04	26.68	37.12	46.40	59.16	70.76	87.00	110.20	140.36
80	12.76	15.08	16.24	24.36	32.48	44.08	66.12	78.88	105.56	131.08
85	8.12	10.44	11.60	11.60	18.56	25.52	39.44	54.52	89.32	117.16
90	5.80	6.96	8.12	8.12	8.12	9.28	13.92	25.52	53.36	64.96
95	6.96	8.12	9.28	10.44	12.76	16.24	20.88	37.12	52.20	61.48
100	10.44	12.76	15.08	18.56	24.36	33.64	49.88	64.96	78.88	93.96
105	15.08	19.72	24.36	31.32	40.60	54.52	70.76	83.52	96.28	107.88
110	22.04	27.84	34.80	45.24	58.00	74.24	85.84	97.44	107.88	114.84
115	30.16	38.28	48.72	61.48	75.40	85.84	96.28	106.72	114.84	120.64
120	40.60	49.88	62.64	75.40	84.68	93.96	103.24	111.36	118.32	122.96
125	51.04	62.64	71.92	80.04	88.16	98.60	105.56	112.52	117.16	120.64
130	58.00	64.96	73.08	81.20	89.32	96.28	103.24	109.04	112.52	114.84
135	58.00	64.96	71.92	78.88	85.84	91.64	98.60	100.92	104.40	105.56
140	55.68	61.48	67.28	73.08	78.88	84.68	88.16	90.48	92.80	93.96
145	52.20	55.68	60.32	64.96	69.60	74.24	76.56	78.88	80.04	80.04
150	47.56	51.04	52.20	55.68	59.16	62.64	64.96	67.28	67.28	68.44
155	35.96	40.60	46.40	47.56	48.72	51.04	52.20	53.36	53.36	53.36
160	22.04	26.68	31.32	34.80	38.28	40.60	41.76	41.76	41.76	40.60
165	11.60	12.76	15.08	17.40	19.72	22.04	23.20	23.20	24.36	24.36
170	6.96	6.96	6.96	6.96	8.12	8.12	8.12	8.12	8.12	6.96
175	2.32	2.32	2.32	3.48	3.48	3.48	3.48	3.48	3.48	3.48
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	100	105	110	115	120	125	130	135	140	145
0	58.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00
5	61.48	63.80	64.96	66.12	67.28	69.60	70.76	71.92	73.08	74.24
10	67.28	70.76	73.08	76.56	80.04	83.52	87.00	89.32	92.80	95.12
15	73.08	77.72	83.52	89.32	93.96	99.76	105.56	111.36	117.16	121.80
20	81.20	88.16	95.12	103.24	112.52	121.80	129.92	138.04	146.16	153.12
25	89.32	98.60	109.04	120.64	132.24	145.00	156.60	168.20	180.96	194.88
30	98.60	110.20	124.12	139.20	153.12	170.52	190.24	209.96	227.36	251.72
35	107.88	122.96	139.20	158.92	180.96	204.16	234.32	266.80	298.12	331.76
40	117.16	134.56	156.60	180.96	213.44	250.56	291.16	337.56	382.80	422.24
45	125.28	148.48	176.32	207.64	247.08	308.56	365.40	415.28	460.52	502.28
50	135.72	163.56	198.36	250.56	310.88	373.52	429.20	481.40	526.64	568.40
55	146.16	178.64	227.36	292.32	361.92	425.72	481.40	533.60	569.56	602.04
60	156.60	197.20	256.36	338.72	403.68	467.48	510.40	551.00	581.16	607.84
65	168.20	227.36	300.44	370.04	426.88	473.28	512.72	545.20	573.04	596.24
70	175.16	245.92	319.00	375.84	422.24	460.52	495.32	524.32	551.00	571.88
75	179.80	254.04	306.24	357.28	397.88	430.36	465.16	489.52	513.88	531.28
80	163.56	213.44	272.60	317.84	356.12	387.44	411.80	436.16	455.88	475.60
85	129.92	150.80	206.48	257.52	293.48	327.12	350.32	372.36	394.40	412.96
90	88.16	114.84	131.08	182.12	212.28	254.04	281.88	303.92	330.60	352.64
95	85.84	113.68	140.36	164.72	183.28	213.44	234.32	256.36	281.88	294.64
100	110.20	126.44	147.32	170.52	207.64	222.72	241.28	258.68	276.08	291.16
105	117.16	127.60	139.20	157.76	183.28	206.48	259.84	288.84	308.56	321.32
110	120.64	126.44	132.24	140.36	147.32	154.28	155.44	222.72	258.68	314.36
115	124.12	125.28	127.60	131.08	134.56	136.88	140.36	141.52	142.68	142.68
120	124.12	124.12	122.96	121.80	121.80	122.96	122.96	122.96	121.80	120.64
125	121.80	120.64	118.32	114.84	111.36	109.04	107.88	104.40	102.08	99.76
130	116.00	114.84	112.52	106.72	102.08	96.28	92.80	88.16	84.68	80.04
135	105.56	104.40	102.08	98.60	92.80	87.00	80.04	74.24	68.44	63.80

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CANDELA TABULATION - (Cont.)

140	93.96	92.80	90.48	85.84	82.36	76.56	69.60	62.64	55.68	48.72
145	80.04	78.88	77.72	74.24	69.60	64.96	59.16	53.36	46.40	39.44
150	67.28	64.96	63.80	61.48	58.00	54.52	48.72	44.08	39.44	32.48
155	53.36	52.20	49.88	47.56	45.24	42.92	39.44	33.64	27.84	22.04
160	40.60	40.60	39.44	37.12	33.64	29.00	25.52	20.88	16.24	12.76
165	23.20	22.04	19.72	17.40	15.08	12.76	11.60	10.44	9.28	6.96
170	8.12	8.12	8.12	8.12	8.12	6.96	5.80	4.64	4.64	3.48
175	3.48	3.48	3.48	3.48	3.48	2.32	2.32	2.32	2.32	2.32
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	58.00	58.00	58.00	58.00	58.00	58.00	58.00
5	74.24	75.40	76.56	76.56	77.72	77.72	77.72
10	97.44	98.60	100.92	102.08	102.08	103.24	103.24
15	126.44	129.92	132.24	135.72	136.88	138.04	138.04
20	161.24	167.04	171.68	176.32	178.64	180.96	180.96
25	206.48	216.92	226.20	233.16	237.80	242.44	243.60
30	273.76	293.48	310.88	323.64	334.08	342.20	343.36
35	361.92	388.60	411.80	429.20	441.96	451.24	452.40
40	454.72	483.72	506.92	525.48	539.40	549.84	551.00
45	535.92	564.92	589.28	609.00	622.92	631.04	634.52
50	599.72	622.92	642.64	658.88	670.48	677.44	679.76
55	628.72	647.28	662.36	675.12	684.40	690.20	692.52
60	629.88	647.28	662.36	673.96	682.08	687.88	690.20
65	619.44	634.52	647.28	657.72	665.84	671.64	673.96
70	591.60	606.68	618.28	628.72	636.84	641.48	642.64
75	548.68	563.76	574.20	583.48	591.60	596.24	598.56
80	491.84	505.76	518.52	528.96	535.92	540.56	542.88
85	431.52	446.60	458.20	467.48	474.44	477.92	480.24
90	365.40	379.32	392.08	401.36	408.32	412.96	414.12
95	314.36	323.64	337.56	348.00	350.32	350.32	351.48
100	305.08	315.52	324.80	332.92	337.56	341.04	341.04
105	329.44	338.72	344.52	352.64	354.96	356.12	356.12
110	390.92	388.60	401.36	407.16	411.80	410.64	409.48
115	172.84	218.08	177.48	325.96	222.72	382.80	481.40
120	118.32	114.84	112.52	107.88	102.08	114.84	98.60
125	95.12	91.64	85.84	80.04	73.08	69.60	70.76
130	76.56	70.76	63.80	58.00	51.04	48.72	48.72
135	58.00	52.20	45.24	38.28	32.48	29.00	29.00
140	42.92	37.12	30.16	20.88	16.24	13.92	13.92
145	32.48	24.36	16.24	10.44	4.64	3.48	3.48
150	24.36	17.40	11.60	5.80	2.32	1.16	1.16
155	16.24	12.76	6.96	3.48	2.32	1.16	1.16
160	10.44	6.96	3.48	2.32	2.32	2.32	2.32
165	4.64	3.48	2.32	2.32	2.32	2.32	2.32
170	2.32	2.32	2.32	2.32	2.32	2.32	2.32
175	2.32	2.32	2.32	2.32	2.32	2.32	2.32
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	26.76	N.A.	1.50
0-30	73.57	N.A.	4.10
0-40	168.68	N.A.	9.40
0-60	550.78	N.A.	30.70
0-80	1044.9	N.A.	58.30
0-90	1235.22	N.A.	68.90
10-90	1229.39	N.A.	68.60
20-40	141.92	N.A.	7.90
20-50	303.48	N.A.	16.90
40-70	633.29	N.A.	35.30
60-80	494.11	N.A.	27.60
70-80	242.93	N.A.	13.50
80-90	190.32	N.A.	10.60
90-110	285.21	N.A.	15.90
90-120	395.95	N.A.	22.10
90-130	463.66	N.A.	25.90
90-150	540.00	N.A.	30.10
90-180	557.89	N.A.	31.10
110-180	272.68	N.A.	15.20
0-180	1793.12	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	5.83
10-20	20.92
20-30	46.81
30-40	95.11
40-50	161.55
50-60	220.55
60-70	251.18
70-80	242.93
80-90	190.32
90-100	140.55
100-110	144.66
110-120	110.73
120-130	67.72
130-140	47.73
140-150	28.61
150-160	13.82
160-170	3.75
170-180	0.32

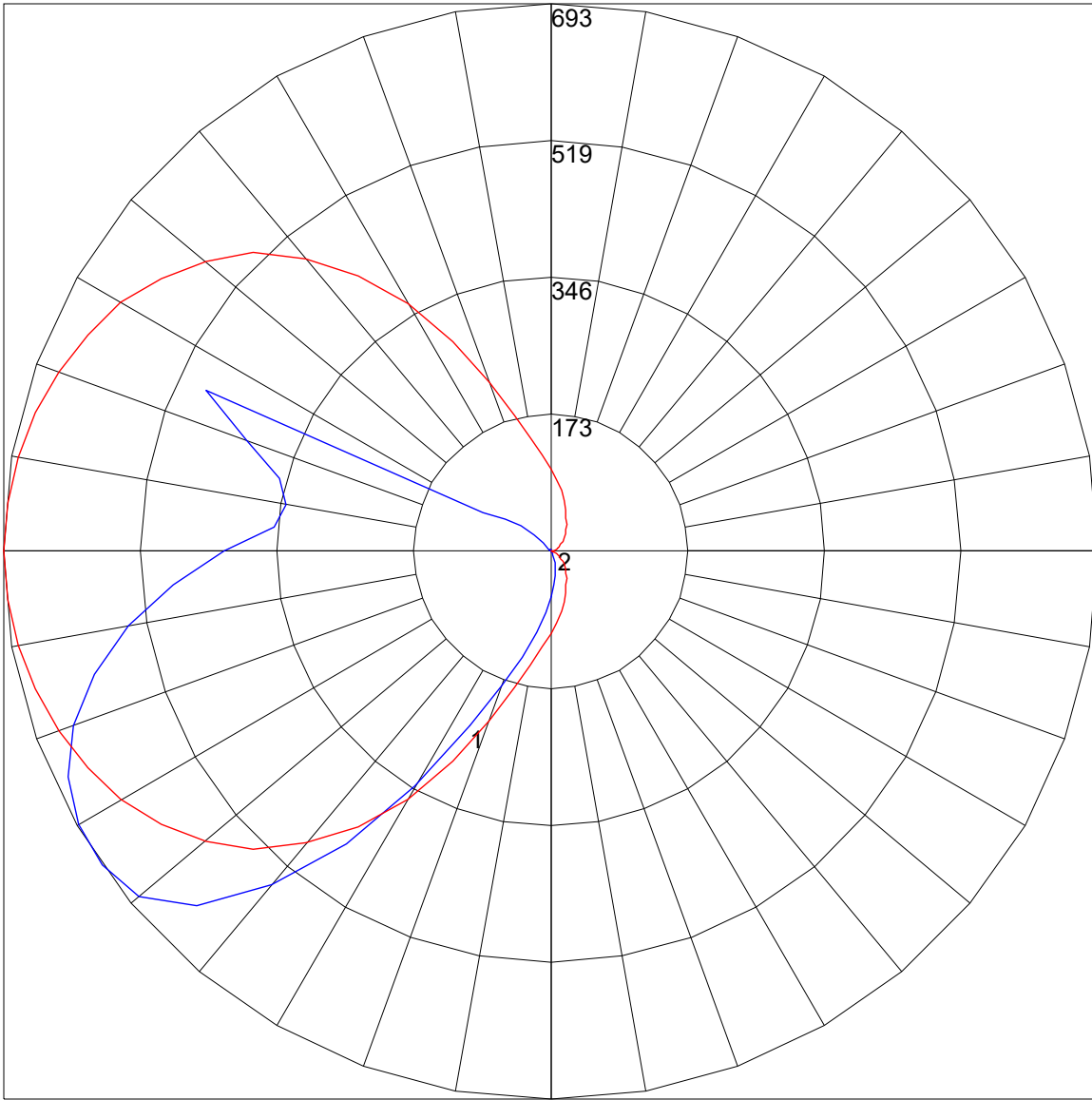
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	
0	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73	69
1	96	89	82	77	90	83	78	73	73	69	64	64	60	57	55	52	50	45
2	84	73	64	57	79	69	61	54	60	53	48	52	47	42	44	40	36	32
3	75	62	52	44	70	58	49	41	50	43	37	43	37	32	37	32	28	24
4	68	53	43	35	63	50	40	33	43	35	29	37	30	25	31	26	22	18
5	61	46	36	28	57	43	34	27	38	30	23	32	26	20	27	22	17	14
6	56	41	31	23	52	38	29	22	33	25	19	28	22	17	24	18	14	11
7	51	36	27	20	47	34	25	19	29	22	16	25	19	14	21	16	12	9
8	47	33	23	17	44	30	22	16	27	19	14	23	17	12	19	14	10	8
9	44	29	21	15	41	28	19	14	24	17	12	21	15	10	18	12	9	6
10	41	27	18	13	38	25	17	12	22	15	10	19	13	9	16	11	8	5

POLAR GRAPH



Maximum Candela = 692.52 Located At Horizontal Angle = 180, Vertical Angle = 55
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)