

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	53	55	56	57
Total Lumens, 4' rail length (1219mm)	852	879	897	914
Lumens per foot (305mm)	213	220	224	229
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	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_LO_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-LO-35-C1
[LUMINAIRE] ZipWave LED, 48", Armstrong wall cove part no. AXIDLCWKE48, 3500K, 80 CRI,
[MORE] zipper board, clear lens w/edge softening, low output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	897
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	55
Total Luminaire Watts	16.25
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	28	524	2260
55	0	680	3058
65	0	830	4381
75	0	904	7154
85	0	1342	17220

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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	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00
5	21.46	21.46	21.46	21.46	22.04	22.04	22.62	23.20	23.20	23.78
10	15.66	15.66	15.66	16.24	16.24	16.82	17.40	17.98	19.14	19.72
15	11.02	11.02	11.60	11.60	12.18	12.76	13.92	14.50	15.08	16.24
20	7.54	7.54	8.12	8.12	9.28	9.86	11.02	12.18	13.34	14.50
25	2.90	2.90	3.48	4.64	5.80	6.96	8.12	9.28	11.02	12.76
30	1.74	1.74	2.32	2.90	3.48	4.06	5.80	7.54	9.28	11.02
35	1.74	1.74	1.74	2.32	3.48	4.06	5.22	6.38	8.12	9.86
40	1.74	1.74	1.74	2.90	3.48	4.64	5.80	6.96	8.70	9.86
45	0.58	1.16	1.74	2.32	3.48	4.64	5.80	7.54	9.28	11.02
50	0.00	0.58	1.16	2.32	3.48	4.64	6.38	7.54	9.86	11.60
55	0.00	0.58	1.16	2.32	3.48	4.64	5.80	7.54	9.86	11.60
60	0.00	0.58	1.16	1.74	2.90	4.06	5.80	7.54	9.28	11.60
65	0.00	0.58	1.16	1.74	2.90	3.48	5.22	6.38	8.12	10.44
70	0.00	0.58	1.16	1.74	2.32	3.48	4.64	5.80	7.54	8.70
75	0.00	1.16	1.16	1.74	2.32	2.90	3.48	4.64	5.80	6.96
80	0.00	1.16	1.16	1.16	1.74	2.32	2.32	3.48	4.06	5.22
85	0.00	1.16	1.16	1.16	1.16	1.74	1.74	2.32	2.90	3.48
90	0.00	1.16	1.16	1.16	1.16	1.16	1.74	1.74	2.32	2.32
95	0.00	1.16	1.16	1.16	1.74	1.74	1.74	2.32	2.32	2.90
100	0.00	1.16	1.16	1.74	1.74	2.32	2.90	2.90	3.48	4.64
105	0.00	1.16	1.74	1.74	2.32	2.90	3.48	4.64	5.22	6.38
110	0.00	1.74	1.74	2.32	2.90	4.06	4.64	5.80	6.96	9.28
115	0.00	1.74	2.32	2.90	4.06	5.22	6.38	8.12	9.86	12.18
120	0.00	2.32	2.32	3.48	4.64	6.38	8.12	10.44	12.76	16.24
125	0.00	2.32	2.90	4.06	5.80	8.12	9.28	12.76	16.82	20.30
130	0.00	1.74	2.90	4.64	6.38	8.70	11.60	16.24	20.88	24.36
135	0.00	1.74	2.90	4.64	6.96	9.86	13.92	19.72	22.62	24.94
140	0.00	1.74	2.90	4.64	6.38	9.28	13.34	17.98	23.20	24.94
145	0.00	2.32	2.90	4.06	5.80	8.70	12.18	15.66	20.30	24.36
150	0.00	2.32	2.32	2.90	3.48	7.54	11.02	13.92	16.82	20.30
155	0.00	2.32	2.32	2.32	2.90	4.64	7.54	10.44	12.76	15.08
160	0.00	2.32	2.32	2.32	2.90	3.48	4.64	6.38	7.54	9.28
165	0.00	2.32	2.32	2.32	2.90	3.48	4.06	4.64	5.22	5.22
170	0.00	1.74	1.74	1.74	1.74	1.74	2.32	2.32	2.90	2.90
175	0.00	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
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	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00
5	24.36	24.94	25.52	26.10	26.68	27.26	27.84	28.42	29.58	30.16
10	20.30	21.46	22.62	23.78	24.94	26.10	27.26	28.42	30.16	31.90
15	17.98	19.14	20.88	22.04	24.36	26.10	27.84	30.16	32.48	34.22
20	16.24	17.98	19.72	21.46	23.78	26.10	28.42	31.32	34.22	37.12
25	15.08	16.82	19.14	21.46	23.78	26.68	29.58	32.48	35.96	40.02
30	13.34	16.24	18.56	21.46	24.36	27.26	30.74	34.80	38.86	43.50
35	12.76	15.66	18.56	21.46	24.94	28.42	32.48	37.12	41.76	47.56
40	12.18	15.08	17.98	22.04	25.52	29.58	34.22	38.86	44.66	51.04
45	13.34	15.66	18.56	22.04	26.68	31.32	35.96	41.76	47.56	54.52
50	13.92	16.24	19.14	22.62	27.26	31.90	37.70	43.50	49.88	58.00
55	14.50	16.82	19.72	23.20	27.84	33.06	38.86	45.24	52.20	60.90
60	13.92	17.40	20.30	23.78	27.26	33.06	39.44	45.82	53.94	64.38

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CANDELA TABULATION - (Cont.)

65	12.76	16.24	19.72	22.62	27.26	32.48	38.86	46.40	55.10	66.70
70	11.02	13.34	17.98	21.46	24.94	30.74	37.12	45.82	55.68	68.44
75	8.12	11.02	13.34	18.56	23.20	29.58	35.38	43.50	55.10	70.18
80	6.38	7.54	8.12	12.18	16.24	22.04	33.06	39.44	52.78	65.54
85	4.06	5.22	5.80	5.80	9.28	12.76	19.72	27.26	44.66	58.58
90	2.90	3.48	4.06	4.06	4.06	4.64	6.96	12.76	26.68	32.48
95	3.48	4.06	4.64	5.22	6.38	8.12	10.44	18.56	26.10	30.74
100	5.22	6.38	7.54	9.28	12.18	16.82	24.94	32.48	39.44	46.98
105	7.54	9.86	12.18	15.66	20.30	27.26	35.38	41.76	48.14	53.94
110	11.02	13.92	17.40	22.62	29.00	37.12	42.92	48.72	53.94	57.42
115	15.08	19.14	24.36	30.74	37.70	42.92	48.14	53.36	57.42	60.32
120	20.30	24.94	31.32	37.70	42.34	46.98	51.62	55.68	59.16	61.48
125	25.52	31.32	35.96	40.02	44.08	49.30	52.78	56.26	58.58	60.32
130	29.00	32.48	36.54	40.60	44.66	48.14	51.62	54.52	56.26	57.42
135	29.00	32.48	35.96	39.44	42.92	45.82	49.30	50.46	52.20	52.78
140	27.84	30.74	33.64	36.54	39.44	42.34	44.08	45.24	46.40	46.98
145	26.10	27.84	30.16	32.48	34.80	37.12	38.28	39.44	40.02	40.02
150	23.78	25.52	26.10	27.84	29.58	31.32	32.48	33.64	33.64	34.22
155	17.98	20.30	23.20	23.78	24.36	25.52	26.10	26.68	26.68	26.68
160	11.02	13.34	15.66	17.40	19.14	20.30	20.88	20.88	20.88	20.30
165	5.80	6.38	7.54	8.70	9.86	11.02	11.60	11.60	12.18	12.18
170	3.48	3.48	3.48	3.48	4.06	4.06	4.06	4.06	4.06	3.48
175	1.16	1.16	1.16	1.74	1.74	1.74	1.74	1.74	1.74	1.74
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>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00
5	30.74	31.90	32.48	33.06	33.64	34.80	35.38	35.96	36.54	37.12
10	33.64	35.38	36.54	38.28	40.02	41.76	43.50	44.66	46.40	47.56
15	36.54	38.86	41.76	44.66	46.98	49.88	52.78	55.68	58.58	60.90
20	40.60	44.08	47.56	51.62	56.26	60.90	64.96	69.02	73.08	76.56
25	44.66	49.30	54.52	60.32	66.12	72.50	78.30	84.10	90.48	97.44
30	49.30	55.10	62.06	69.60	76.56	85.26	95.12	104.98	113.68	125.86
35	53.94	61.48	69.60	79.46	90.48	102.08	117.16	133.40	149.06	165.88
40	58.58	67.28	78.30	90.48	106.72	125.28	145.58	168.78	191.40	211.12
45	62.64	74.24	88.16	103.82	123.54	154.28	182.70	207.64	230.26	251.14
50	67.86	81.78	99.18	125.28	155.44	186.76	214.60	240.70	263.32	284.20
55	73.08	89.32	113.68	146.16	180.96	212.86	240.70	266.80	284.78	301.02
60	78.30	98.60	128.18	169.36	201.84	233.74	255.20	275.50	290.58	303.92
65	84.10	113.68	150.22	185.02	213.44	236.64	256.36	272.60	286.52	298.12
70	87.58	122.96	159.50	187.92	211.12	230.26	247.66	262.16	275.50	285.94
75	89.90	127.02	153.12	178.64	198.94	215.18	232.58	244.76	256.94	265.64
80	81.78	106.72	136.30	158.92	178.06	193.72	205.90	218.08	227.94	237.80
85	64.96	75.40	103.24	128.76	146.74	163.56	175.16	186.18	197.20	206.48
90	44.08	57.42	65.54	91.06	106.14	127.02	140.94	151.96	165.30	176.32
95	42.92	56.84	70.18	82.36	91.64	106.72	117.16	128.18	140.94	147.32
100	55.10	63.22	73.66	85.26	103.82	111.36	120.64	129.34	138.04	145.58
105	58.58	63.80	69.60	78.88	91.64	103.24	129.92	144.42	154.28	160.66
110	60.32	63.22	66.12	70.18	73.66	77.14	77.72	111.36	129.34	157.18
115	62.06	62.64	63.80	65.54	67.28	68.44	70.18	70.76	71.34	71.34
120	62.06	62.06	61.48	60.90	60.90	61.48	61.48	61.48	60.90	60.32
125	60.90	60.32	59.16	57.42	55.68	54.52	53.94	52.20	51.04	49.88
130	58.00	57.42	56.26	53.36	51.04	48.14	46.40	44.08	42.34	40.02
135	52.78	52.20	51.04	49.30	46.40	43.50	40.02	37.12	34.22	31.90

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CANDELA TABULATION - (Cont.)

140	46.98	46.40	45.24	42.92	41.18	38.28	34.80	31.32	27.84	24.36
145	40.02	39.44	38.86	37.12	34.80	32.48	29.58	26.68	23.20	19.72
150	33.64	32.48	31.90	30.74	29.00	27.26	24.36	22.04	19.72	16.24
155	26.68	26.10	24.94	23.78	22.62	21.46	19.72	16.82	13.92	11.02
160	20.30	20.30	19.72	18.56	16.82	14.50	12.76	10.44	8.12	6.38
165	11.60	11.02	9.86	8.70	7.54	6.38	5.80	5.22	4.64	3.48
170	4.06	4.06	4.06	4.06	4.06	3.48	2.90	2.32	2.32	1.74
175	1.74	1.74	1.74	1.74	1.74	1.16	1.16	1.16	1.16	1.16
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles

	150	155	160	165	170	175	180
0	29.00	29.00	29.00	29.00	29.00	29.00	29.00
5	37.12	37.70	38.28	38.28	38.86	38.86	38.86
10	48.72	49.30	50.46	51.04	51.04	51.62	51.62
15	63.22	64.96	66.12	67.86	68.44	69.02	69.02
20	80.62	83.52	85.84	88.16	89.32	90.48	90.48
25	103.24	108.46	113.10	116.58	118.90	121.22	121.80
30	136.88	146.74	155.44	161.82	167.04	171.10	171.68
35	180.96	194.30	205.90	214.60	220.98	225.62	226.20
40	227.36	241.86	253.46	262.74	269.70	274.92	275.50
45	267.96	282.46	294.64	304.50	311.46	315.52	317.26
50	299.86	311.46	321.32	329.44	335.24	338.72	339.88
55	314.36	323.64	331.18	337.56	342.20	345.10	346.26
60	314.94	323.64	331.18	336.98	341.04	343.94	345.10
65	309.72	317.26	323.64	328.86	332.92	335.82	336.98
70	295.80	303.34	309.14	314.36	318.42	320.74	321.32
75	274.34	281.88	287.10	291.74	295.80	298.12	299.28
80	245.92	252.88	259.26	264.48	267.96	270.28	271.44
85	215.76	223.30	229.10	233.74	237.22	238.96	240.12
90	182.70	189.66	196.04	200.68	204.16	206.48	207.06
95	157.18	161.82	168.78	174.00	175.16	175.16	175.74
100	152.54	157.76	162.40	166.46	168.78	170.52	170.52
105	164.72	169.36	172.26	176.32	177.48	178.06	178.06
110	195.46	194.30	200.68	203.58	205.90	205.32	204.74
115	86.42	109.04	88.74	162.98	111.36	191.40	240.70
120	59.16	57.42	56.26	53.94	51.04	57.42	49.30
125	47.56	45.82	42.92	40.02	36.54	34.80	35.38
130	38.28	35.38	31.90	29.00	25.52	24.36	24.36
135	29.00	26.10	22.62	19.14	16.24	14.50	14.50
140	21.46	18.56	15.08	10.44	8.12	6.96	6.96
145	16.24	12.18	8.12	5.22	2.32	1.74	1.74
150	12.18	8.70	5.80	2.90	1.16	0.58	0.58
155	8.12	6.38	3.48	1.74	1.16	0.58	0.58
160	5.22	3.48	1.74	1.16	1.16	1.16	1.16
165	2.32	1.74	1.16	1.16	1.16	1.16	1.16
170	1.16	1.16	1.16	1.16	1.16	1.16	1.16
175	1.16	1.16	1.16	1.16	1.16	1.16	1.16
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	13.38	N.A.	1.50
0-30	36.78	N.A.	4.10
0-40	84.34	N.A.	9.40
0-60	275.39	N.A.	30.70
0-80	522.45	N.A.	58.30
0-90	617.61	N.A.	68.90
10-90	614.69	N.A.	68.60
20-40	70.96	N.A.	7.90
20-50	151.74	N.A.	16.90
40-70	316.64	N.A.	35.30
60-80	247.06	N.A.	27.60
70-80	121.47	N.A.	13.50
80-90	95.16	N.A.	10.60
90-110	142.61	N.A.	15.90
90-120	197.97	N.A.	22.10
90-130	231.83	N.A.	25.90
90-150	270.00	N.A.	30.10
90-180	278.95	N.A.	31.10
110-180	136.34	N.A.	15.20
0-180	896.56	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2.92
10-20	10.46
20-30	23.40
30-40	47.56
40-50	80.78
50-60	110.28
60-70	125.59
70-80	121.47
80-90	95.16
90-100	70.28
100-110	72.33
110-120	55.37
120-130	33.86
130-140	23.87
140-150	14.30
150-160	6.91
160-170	1.88
170-180	0.16

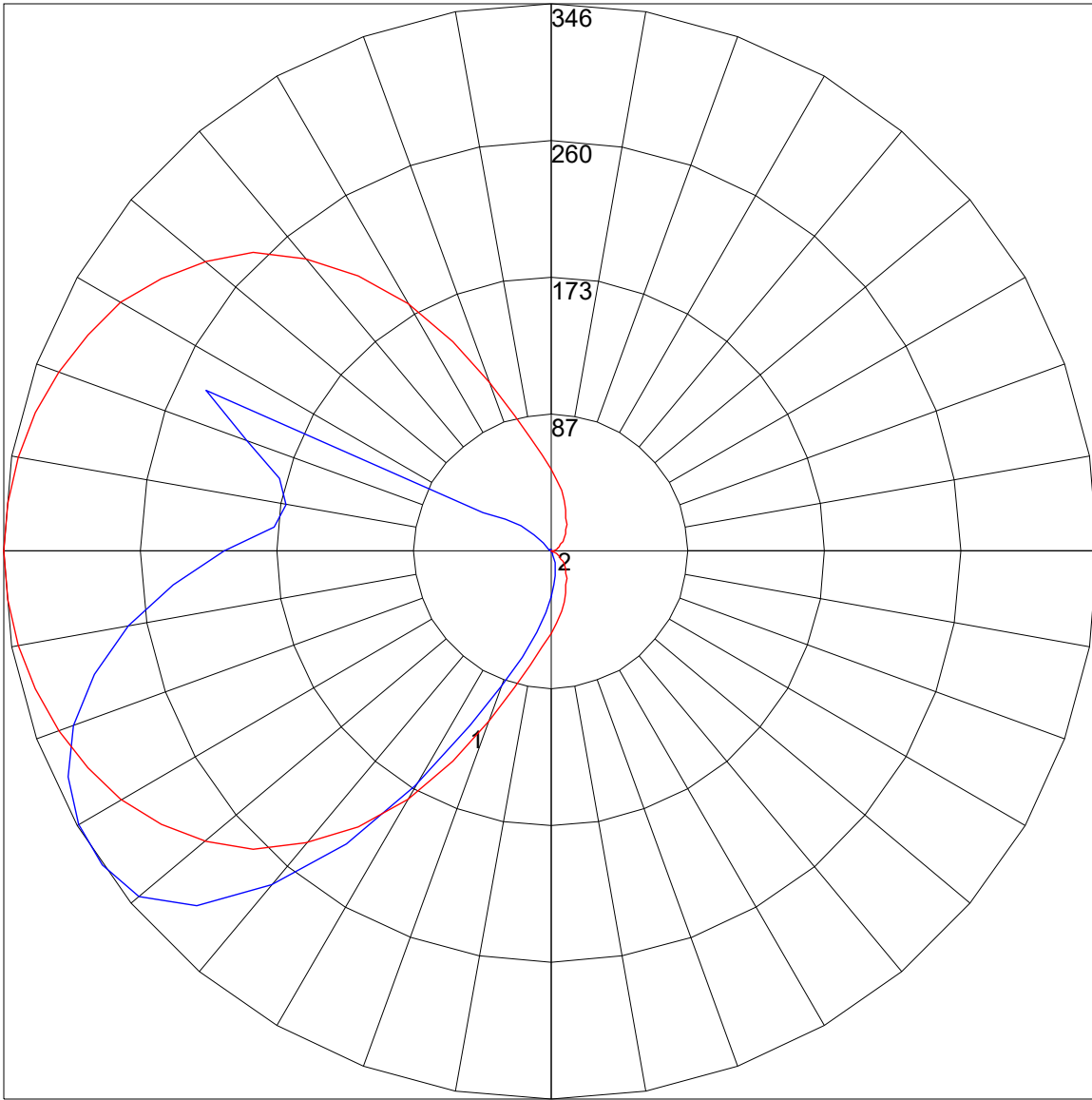
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	72	73	69	64	64	60	57	55	52	50	45
2	84	73	64	57	78	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	67	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	37	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 = 346.26 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.)