

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P290560

Luminaire Tested: **AXCS2ARL-W-GRF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-095-3)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: AXCS2ARL-W-GRF
Description: 2ARL AXCENT SMALL LED WALLPACK WITH 3000K CCT AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2208.9 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 0.5' x H: 0.17')
IES Classification: Type IV - Short
BUG Rating: B1 - U3 - G2

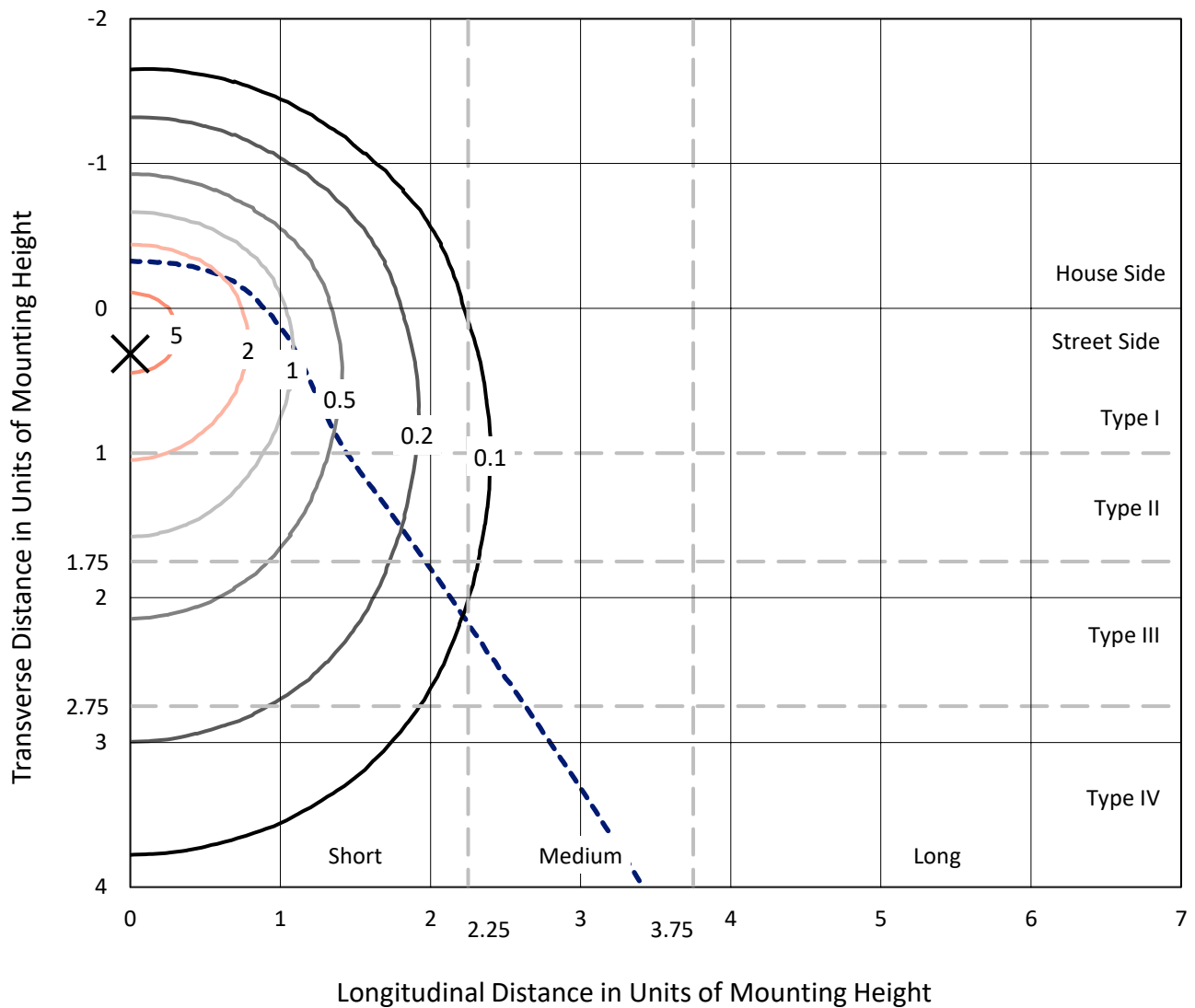
Input Watts (W): 20.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

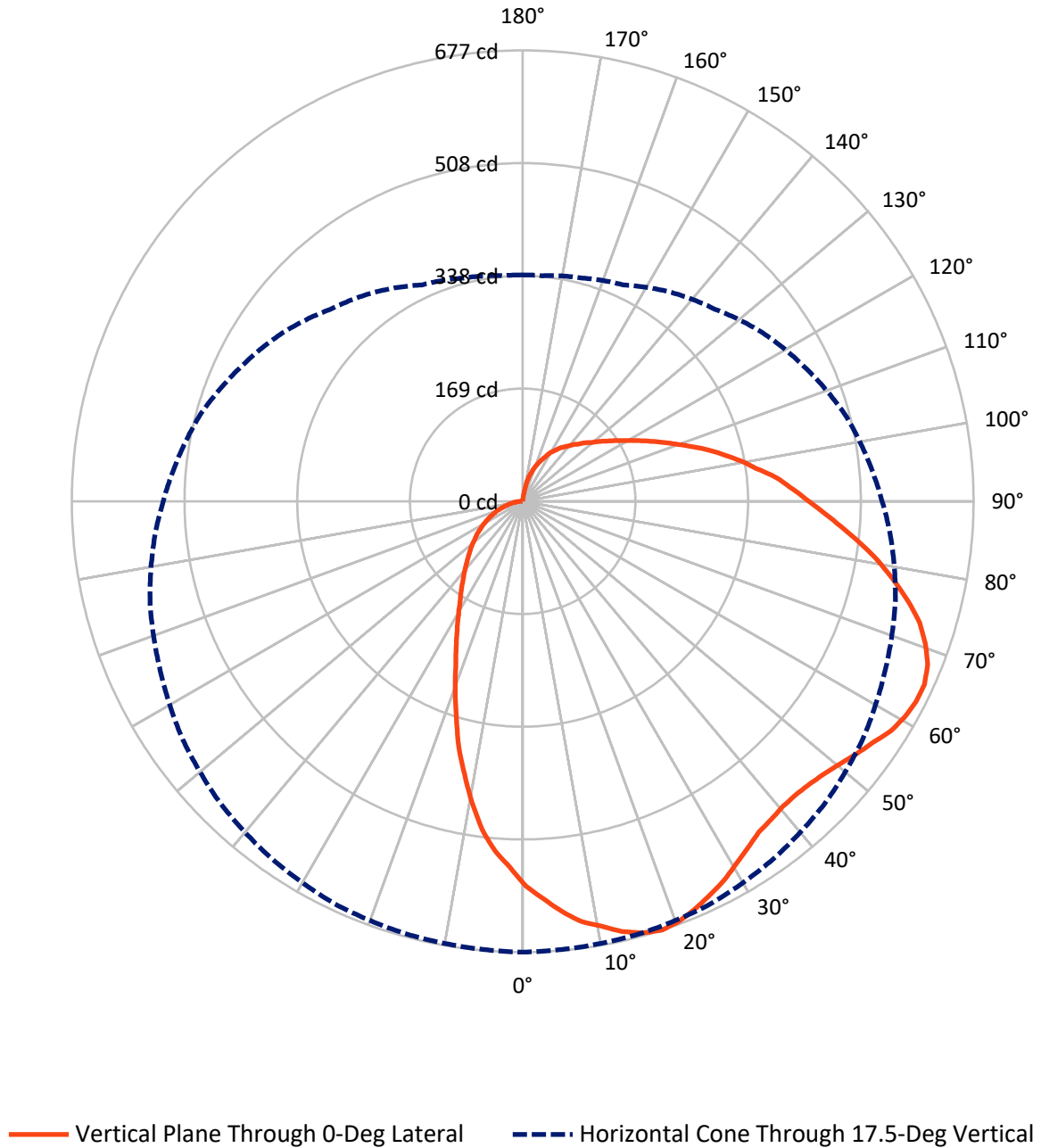
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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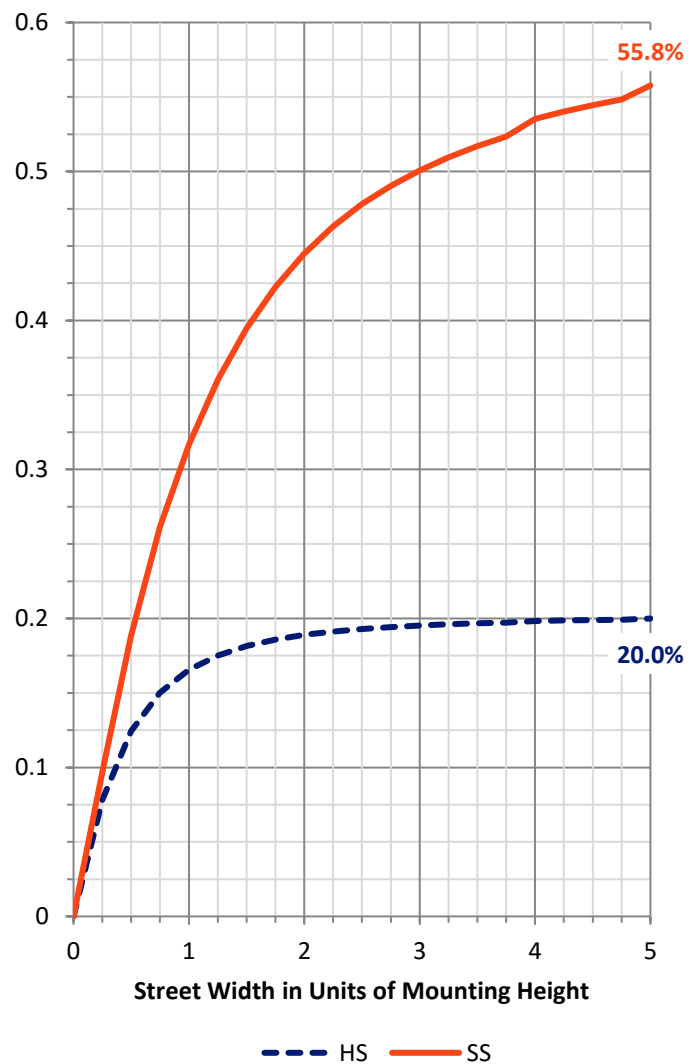
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	449.8	33.0	482.8
	% Fixture	20.4	1.5	21.9
Street Side	Lumens	1337.6	388.5	1726.1
	% Fixture	60.6	17.6	78.1
Total	Lumens	1787.4	421.5	2208.9
	% Fixture	80.9	19.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	2.5
10°-20°	151.4	6.9
20°-30°	215.9	9.8
30°-40°	245.9	11.1
40°-50°	254.4	11.5
50°-60°	253.3	11.5
60°-70°	241.9	10.9
70°-80°	208.8	9.5
80°-90°	161.4	7.3
90°-100°	126.9	5.7
100°-110°	99.3	4.5
110°-120°	72.4	3.3
120°-130°	51.3	2.3
130°-140°	35.0	1.6
140°-150°	21.9	1.0
150°-160°	11.1	0.5
160°-170°	3.5	0.2
170°-180°	0.1	0.0
0°-90°	1787.4	80.9
0°-180°	2208.9	100.0



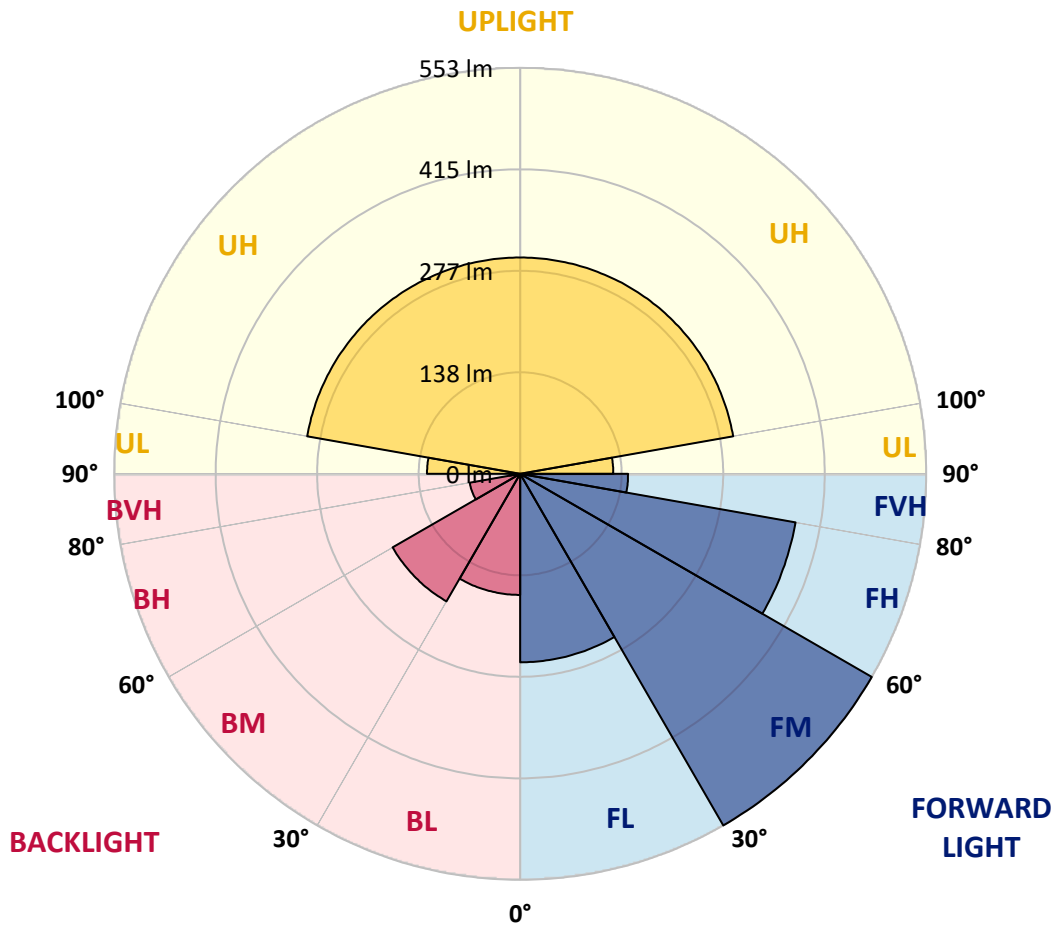
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	256.7	11.6			
FM (30°-60°)	553.0	25.0			
FH (60°-80°)	380.9	17.2			G0/660
FVH (80°-90°)	147.0	6.7			G2/225
BL (0°-30°)	165.0	7.5	B1/500		
BM (30°-60°)	200.6	9.1	B0/220		
BH (60°-80°)	69.8	3.2	B0/110		G0/110
BVH (80°-90°)	14.4	0.7			G1/100
UL (90°-100°)	126.9	5.7		U3/500	
UH (100°-180°)	294.6	13.3		U3/500	

BUG Rating: B1-U3-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8
2.5°	597.6	596.2	594.8	594.8	593.4	590.5	589.1	586.3	583.5	579.2	577.8
5°	618.9	617.4	616.0	614.6	611.8	606.1	601.9	596.2	589.1	582.0	577.8
7.5°	637.3	635.9	634.4	630.2	625.9	617.4	610.4	601.9	592.0	580.6	573.5
10°	648.6	647.2	645.8	641.5	634.4	624.5	614.6	601.9	589.1	575.0	566.5
12.5°	662.8	661.3	658.5	652.8	644.3	631.6	618.9	603.3	587.7	569.3	558.0
15°	672.7	672.7	669.8	662.8	652.8	638.7	623.1	604.7	584.9	563.6	550.9
17.5°	676.9	675.5	672.7	667.0	655.7	641.5	623.1	600.4	579.2	553.7	539.6
20°	672.7	672.7	669.8	662.8	652.8	637.3	617.4	593.4	567.9	538.1	524.0
22.5°	664.2	664.2	661.3	655.7	645.8	630.2	608.9	583.5	553.7	522.6	507.0
25°	654.3	654.3	651.4	645.8	637.3	621.7	599.0	572.1	541.0	507.0	488.6
27.5°	644.3	642.9	641.5	634.4	627.4	610.4	589.1	558.0	525.4	488.6	470.2
30°	631.6	631.6	627.4	621.7	611.8	594.8	572.1	542.4	507.0	468.7	448.9
32.5°	620.3	620.3	616.0	606.1	594.8	577.8	553.7	522.6	487.2	446.1	424.8
35°	610.4	610.4	604.7	594.8	579.2	559.4	535.3	502.7	465.9	422.0	400.8
37.5°	606.1	604.7	597.6	583.5	565.0	542.4	515.5	482.9	443.3	399.4	378.1
40°	601.9	600.4	592.0	573.5	550.9	524.0	494.2	458.8	420.6	376.7	351.2
42.5°	601.9	599.0	589.1	566.5	538.1	507.0	473.0	436.2	396.5	349.8	327.1
45°	604.7	601.9	589.1	562.2	528.2	490.0	451.8	413.5	373.9	325.7	304.5
47.5°	610.4	607.5	590.5	559.4	518.3	473.0	431.9	390.9	345.5	303.1	281.8
50°	618.9	616.0	596.2	558.0	509.8	458.8	410.7	366.8	322.9	280.4	259.2
52.5°	628.8	625.9	603.3	559.4	504.1	446.1	392.3	342.7	301.6	259.2	237.9
55°	638.7	637.3	611.8	562.2	498.5	433.3	372.4	322.9	280.4	236.5	218.1
57.5°	651.4	647.2	618.9	565.0	494.2	422.0	354.0	303.1	260.6	218.1	198.3
60°	658.5	655.7	624.5	566.5	490.0	410.7	337.0	284.6	240.7	198.3	181.3
62.5°	662.8	659.9	627.4	565.0	482.9	397.9	322.9	267.7	222.3	181.3	164.3
65°	662.8	658.5	625.9	560.8	475.8	386.6	308.7	250.7	205.3	165.7	148.7
67.5°	655.7	651.4	617.4	553.7	465.9	371.0	293.1	235.1	188.3	148.7	133.1
70°	641.5	637.3	604.7	541.0	451.8	356.9	279.0	220.9	174.2	134.5	119.0
72.5°	623.1	618.9	586.3	524.0	436.2	341.3	263.4	205.3	158.6	120.4	106.2
75°	597.6	594.8	563.6	504.1	419.2	325.7	250.7	191.2	144.4	107.6	93.5
77.5°	569.3	566.5	536.7	480.1	399.4	308.7	235.1	178.4	131.7	94.9	80.7
80°	541.0	536.7	509.8	456.0	375.3	291.7	220.9	165.7	119.0	82.1	70.8
82.5°	509.8	505.6	480.1	429.1	352.6	274.7	206.8	152.9	107.6	72.2	59.5
85°	478.7	475.8	451.8	403.6	331.4	257.7	194.0	141.6	97.7	62.3	51.0
87.5°	450.3	447.5	424.8	378.1	311.6	243.6	182.7	133.1	89.2	53.8	43.9
90°	424.8	423.4	400.8	354.0	294.6	232.2	174.2	126.0	85.0	49.6	41.1
92.5°	402.2	399.4	379.5	337.0	281.8	223.8	169.9	124.6	82.1	49.6	39.7
95°	380.9	378.1	355.5	318.6	269.1	213.8	164.3	120.4	80.7	48.1	39.7
97.5°	354.0	352.6	335.6	301.6	254.9	205.3	158.6	117.5	77.9	46.7	38.2
100°	332.8	330.0	314.4	284.6	242.2	195.4	152.9	113.3	76.5	45.3	36.8
102.5°	310.1	308.7	296.0	266.2	228.0	185.5	145.9	109.0	73.6	45.3	36.8
105°	288.9	286.1	274.7	249.2	213.8	175.6	138.8	104.8	70.8	43.9	35.4
107.5°	266.2	264.8	253.5	230.8	201.1	167.1	133.1	100.5	69.4	42.5	34.0
110°	245.0	243.6	235.1	213.8	186.9	155.8	126.0	94.9	66.6	39.7	32.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	226.6	225.2	216.7	199.7	175.6	147.3	120.4	90.6	63.7	38.2	31.2
115°	209.6	208.2	201.1	185.5	164.3	138.8	113.3	87.8	60.9	36.8	29.7
117.5°	194.0	192.6	186.9	172.8	154.4	131.7	107.6	83.6	58.1	35.4	28.3
120°	179.9	178.4	172.8	161.4	144.4	124.6	103.4	79.3	55.2	34.0	26.9
122.5°	167.1	165.7	161.4	150.1	136.0	117.5	97.7	76.5	52.4	32.6	25.5
125°	155.8	154.4	150.1	141.6	128.9	111.9	93.5	72.2	51.0	29.7	24.1
127.5°	145.9	144.4	140.2	133.1	120.4	106.2	89.2	69.4	48.1	28.3	22.7
130°	136.0	136.0	131.7	124.6	113.3	100.5	85.0	65.1	45.3	26.9	21.2
132.5°	128.9	127.5	124.6	119.0	109.0	94.9	80.7	62.3	42.5	25.5	19.8
135°	120.4	120.4	117.5	111.9	102.0	90.6	76.5	58.1	39.7	22.7	18.4
137.5°	114.7	113.3	110.5	106.2	97.7	86.4	72.2	55.2	38.2	21.2	17.0
140°	107.6	107.6	104.8	99.1	92.0	80.7	66.6	51.0	35.4	19.8	15.6
142.5°	102.0	100.5	99.1	93.5	86.4	75.1	62.3	48.1	32.6	18.4	14.2
145°	96.3	94.9	93.5	87.8	80.7	70.8	58.1	43.9	29.7	15.6	12.7
147.5°	89.2	89.2	86.4	82.1	75.1	65.1	53.8	41.1	26.9	14.2	11.3
150°	83.6	82.1	80.7	75.1	68.0	59.5	49.6	36.8	24.1	12.7	9.9
152.5°	75.1	75.1	72.2	68.0	62.3	53.8	43.9	34.0	22.7	9.9	8.5
155°	68.0	68.0	65.1	62.3	55.2	48.1	39.7	29.7	19.8	8.5	8.5
157.5°	60.9	60.9	58.1	55.2	49.6	42.5	35.4	25.5	17.0	7.1	7.1
160°	53.8	52.4	51.0	48.1	42.5	36.8	29.7	21.2	14.2	5.7	5.7
162.5°	45.3	45.3	43.9	41.1	36.8	31.2	24.1	17.0	11.3	4.2	4.2
165°	38.2	36.8	35.4	32.6	28.3	22.7	17.0	12.7	8.5	4.2	2.8
167.5°	28.3	28.3	26.9	24.1	18.4	14.2	12.7	8.5	5.7	2.8	2.8
170°	15.6	14.2	11.3	11.3	11.3	8.5	7.1	5.7	2.8	1.4	1.4
172.5°	0.0	0.0	1.4	2.8	2.8	4.2	2.8	2.8	1.4	1.4	1.4
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	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	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8
2.5°	575.0	569.3	565.0	562.2	556.5	555.1	550.9	550.9	549.5	549.5
5°	573.5	565.0	556.5	549.5	542.4	536.7	531.1	529.6	526.8	526.8
7.5°	567.9	556.5	545.2	533.9	521.1	512.6	504.1	499.9	495.7	497.1
10°	558.0	543.8	528.2	511.2	495.7	481.5	470.2	461.7	457.4	458.8
12.5°	549.5	531.1	509.8	490.0	467.3	450.3	434.8	424.8	419.2	419.2
15°	539.6	518.3	491.4	467.3	439.0	416.3	397.9	388.0	382.4	382.4
17.5°	526.8	501.3	470.2	440.4	407.9	383.8	358.3	347.0	339.9	339.9
20°	509.8	480.1	446.1	409.3	373.9	345.5	322.9	310.1	303.1	303.1
22.5°	491.4	458.8	419.2	380.9	341.3	311.6	291.7	277.6	270.5	267.7
25°	473.0	437.6	395.1	349.8	313.0	284.6	263.4	249.2	242.2	240.7
27.5°	451.8	414.9	368.2	324.3	286.1	257.7	237.9	225.2	218.1	216.7
30°	430.5	390.9	341.3	297.4	260.6	233.7	213.8	202.5	196.8	195.4
32.5°	406.4	364.0	315.8	273.3	236.5	211.0	194.0	184.1	178.4	177.0
35°	383.8	338.5	291.7	249.2	216.7	192.6	178.4	167.1	162.9	162.9
37.5°	356.9	315.8	269.1	229.4	198.3	177.0	162.9	152.9	150.1	148.7
40°	332.8	293.1	247.8	211.0	181.3	162.9	150.1	141.6	137.4	137.4
42.5°	310.1	270.5	228.0	192.6	167.1	148.7	138.8	130.3	127.5	126.0
45°	287.5	249.2	209.6	177.0	152.9	137.4	127.5	120.4	117.5	116.1
47.5°	264.8	229.4	192.6	162.9	141.6	126.0	117.5	111.9	107.6	107.6
50°	243.6	211.0	177.0	148.7	128.9	117.5	109.0	103.4	99.1	99.1
52.5°	223.8	192.6	161.4	137.4	119.0	107.6	100.5	94.9	92.0	90.6
55°	205.3	175.6	147.3	126.0	109.0	99.1	92.0	86.4	83.6	83.6
57.5°	186.9	160.0	134.5	114.7	100.5	90.6	85.0	79.3	76.5	75.1
60°	169.9	145.9	123.2	104.8	92.0	83.6	76.5	72.2	69.4	68.0
62.5°	154.4	133.1	111.9	94.9	83.6	75.1	69.4	65.1	62.3	60.9
65°	138.8	120.4	100.5	86.4	75.1	68.0	62.3	58.1	55.2	53.8
67.5°	124.6	107.6	92.0	77.9	68.0	60.9	55.2	51.0	48.1	46.7
70°	111.9	96.3	82.1	69.4	60.9	53.8	49.6	43.9	41.1	41.1
72.5°	99.1	86.4	72.2	60.9	52.4	46.7	42.5	38.2	35.4	34.0
75°	87.8	75.1	63.7	53.8	46.7	41.1	35.4	31.2	29.7	28.3
77.5°	76.5	65.1	55.2	46.7	39.7	34.0	29.7	25.5	24.1	22.7
80°	65.1	56.6	48.1	39.7	34.0	28.3	24.1	21.2	18.4	18.4
82.5°	55.2	48.1	41.1	34.0	28.3	24.1	19.8	15.6	14.2	12.7
85°	48.1	41.1	34.0	28.3	24.1	19.8	15.6	12.7	9.9	9.9
87.5°	41.1	35.4	29.7	25.5	19.8	14.2	11.3	7.1	5.7	4.2
90°	38.2	32.6	26.9	19.8	15.6	9.9	7.1	2.8	1.4	1.4
92.5°	36.8	31.2	25.5	19.8	14.2	9.9	5.7	2.8	0.0	0.0
95°	36.8	31.2	25.5	19.8	14.2	9.9	5.7	2.8	0.0	0.0
97.5°	35.4	31.2	25.5	19.8	14.2	9.9	5.7	2.8	0.0	0.0
100°	35.4	29.7	24.1	18.4	14.2	8.5	5.7	2.8	0.0	0.0
102.5°	34.0	28.3	24.1	18.4	12.7	8.5	5.7	2.8	0.0	0.0
105°	32.6	28.3	22.7	18.4	12.7	8.5	5.7	2.8	0.0	0.0
107.5°	31.2	26.9	22.7	17.0	12.7	8.5	5.7	2.8	0.0	0.0
110°	29.7	25.5	21.2	17.0	11.3	7.1	4.2	1.4	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	28.3	25.5	21.2	15.6	11.3	7.1	4.2	1.4	0.0	0.0
115°	28.3	24.1	19.8	15.6	11.3	7.1	4.2	1.4	0.0	0.0
117.5°	26.9	22.7	18.4	15.6	11.3	7.1	4.2	1.4	0.0	0.0
120°	25.5	21.2	18.4	14.2	9.9	7.1	4.2	1.4	0.0	0.0
122.5°	24.1	21.2	17.0	14.2	9.9	5.7	2.8	1.4	0.0	0.0
125°	22.7	19.8	17.0	12.7	9.9	5.7	2.8	1.4	0.0	0.0
127.5°	21.2	18.4	15.6	12.7	8.5	5.7	2.8	1.4	0.0	0.0
130°	19.8	17.0	14.2	11.3	8.5	4.2	2.8	0.0	0.0	0.0
132.5°	18.4	17.0	14.2	11.3	7.1	4.2	2.8	0.0	0.0	0.0
135°	17.0	15.6	12.7	9.9	7.1	4.2	1.4	0.0	0.0	0.0
137.5°	15.6	14.2	11.3	9.9	7.1	4.2	1.4	0.0	0.0	0.0
140°	14.2	12.7	11.3	8.5	5.7	2.8	1.4	0.0	0.0	0.0
142.5°	14.2	11.3	9.9	8.5	5.7	2.8	1.4	0.0	0.0	0.0
145°	12.7	11.3	9.9	7.1	5.7	2.8	1.4	0.0	0.0	0.0
147.5°	11.3	9.9	8.5	7.1	4.2	2.8	1.4	0.0	0.0	0.0
150°	9.9	8.5	7.1	5.7	4.2	1.4	1.4	0.0	0.0	0.0
152.5°	8.5	7.1	7.1	5.7	2.8	1.4	1.4	0.0	0.0	0.0
155°	7.1	7.1	5.7	4.2	2.8	1.4	0.0	0.0	0.0	0.0
157.5°	7.1	5.7	4.2	4.2	2.8	1.4	0.0	0.0	0.0	0.0
160°	5.7	4.2	4.2	2.8	1.4	1.4	0.0	0.0	0.0	0.0
162.5°	4.2	4.2	2.8	2.8	1.4	1.4	0.0	0.0	0.0	0.0
165°	2.8	2.8	2.8	1.4	1.4	1.4	0.0	0.0	0.0	0.0
167.5°	2.8	2.8	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
170°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
172.5°	1.4	1.4	1.4	1.4	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
177.5°	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

(END OF REPORT)