

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: P289637

Luminaire Tested: **AXCS1ARL-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1811-024-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: AXCS1ARL-W
Description: 1ARL AXCENT SMALL LED WALLPACK WITH 3000K CCT AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1618.3 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 0.5' x H: 0.17')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U3 - G1

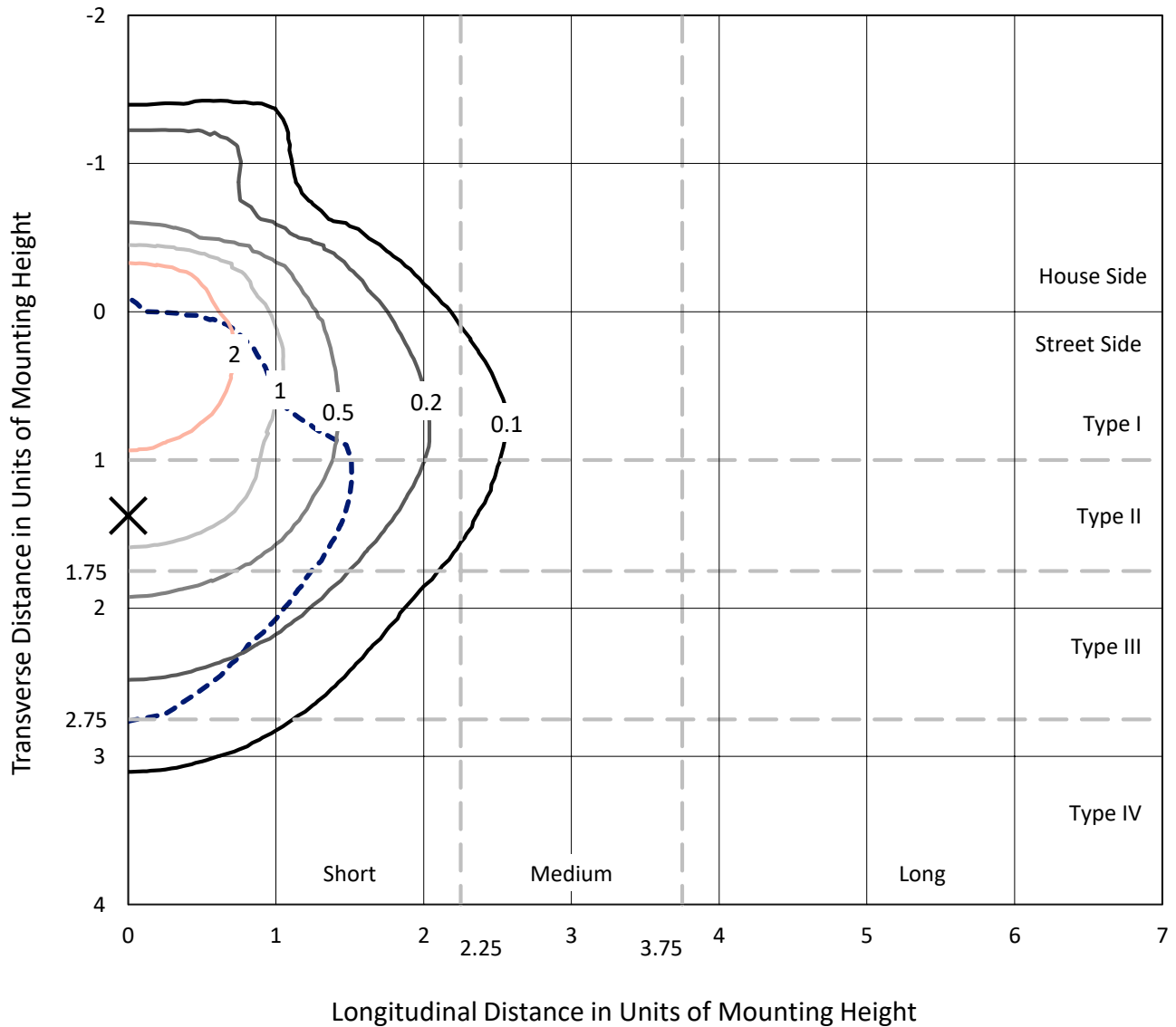
Input Watts (W): 13.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

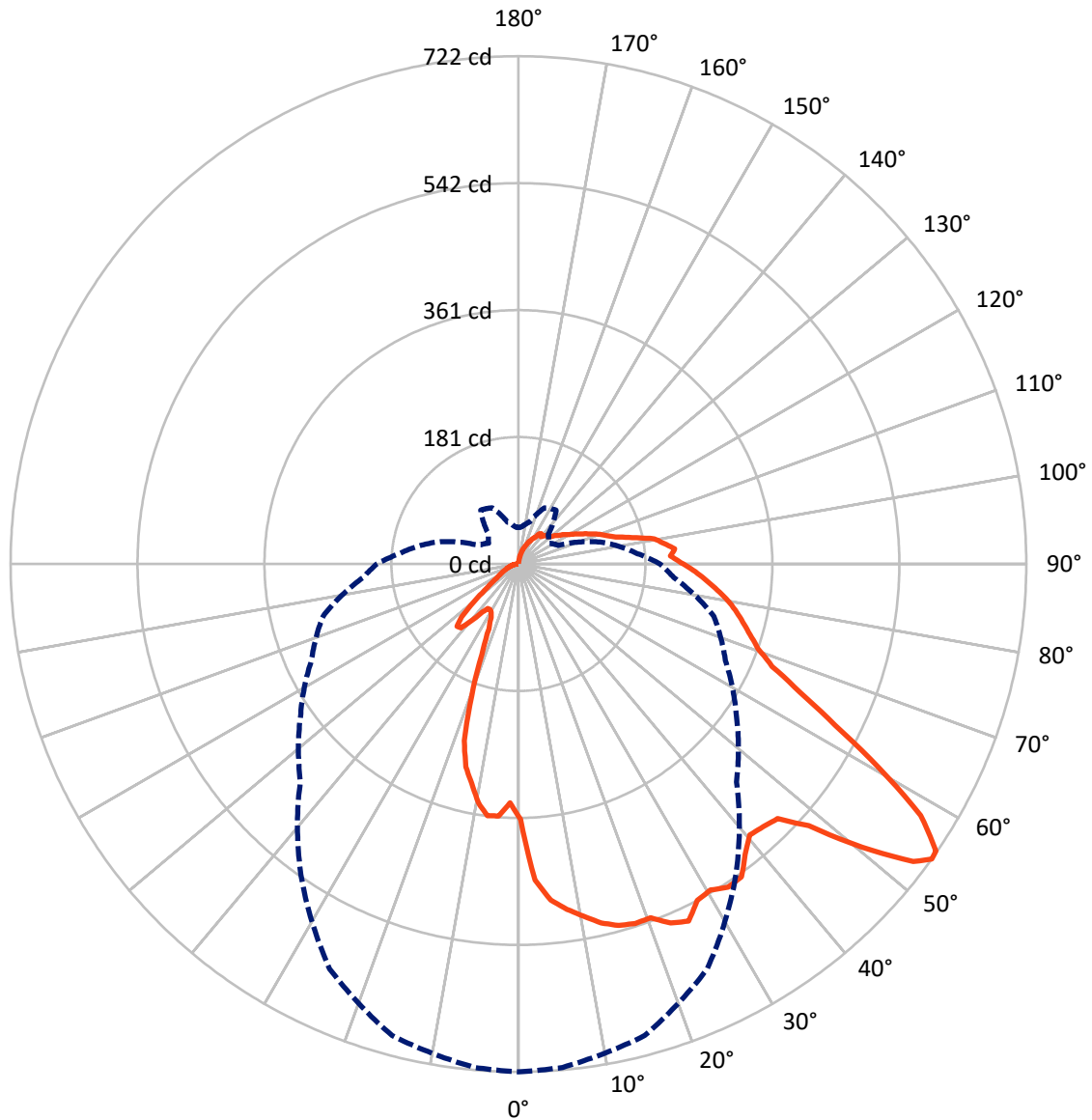
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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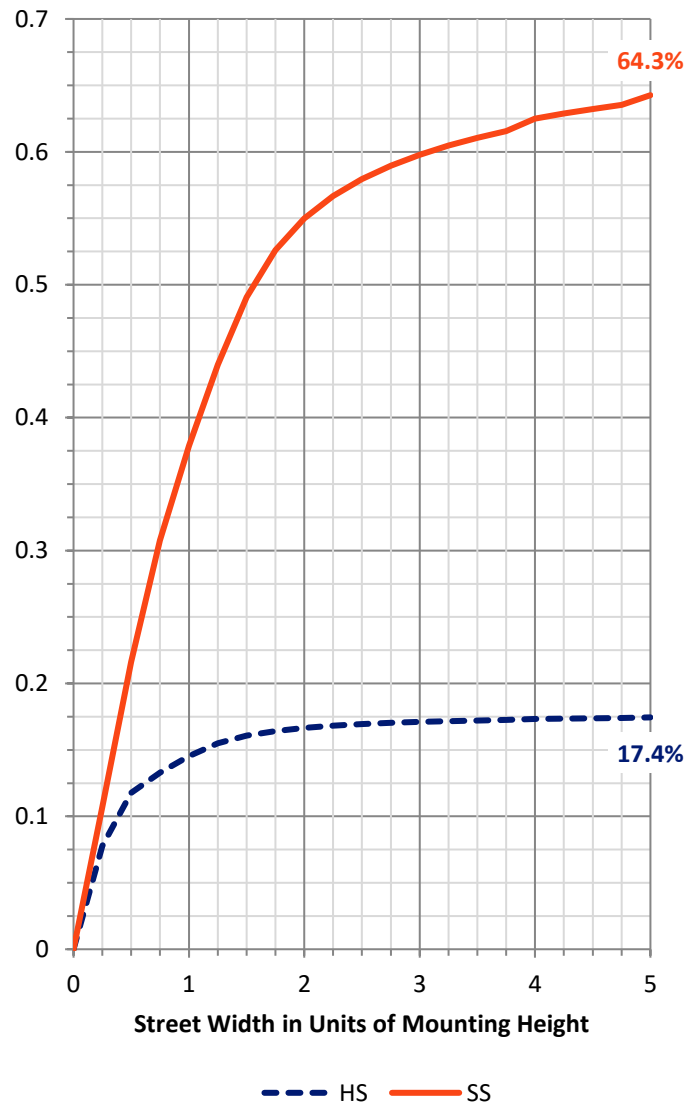
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	288.4	19.0	307.4
	% Fixture	17.8	1.2	19.0
Street Side	Lumens	1101.1	209.8	1310.9
	% Fixture	68.0	13.0	81.0
Total	Lumens	1389.5	228.9	1618.3
	% Fixture	85.9	14.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.4	2.4
10°-20°	114.2	7.1
20°-30°	164.8	10.2
30°-40°	193.3	11.9
40°-50°	212.7	13.1
50°-60°	240.9	14.9
60°-70°	190.5	11.8
70°-80°	135.2	8.4
80°-90°	99.4	6.1
90°-100°	75.6	4.7
100°-110°	53.6	3.3
110°-120°	37.2	2.3
120°-130°	25.5	1.6
130°-140°	17.7	1.1
140°-150°	11.6	0.7
150°-160°	5.7	0.4
160°-170°	1.8	0.1
170°-180°	0.1	0.0
0°-90°	1389.5	85.9
0°-180°	1618.3	100.0



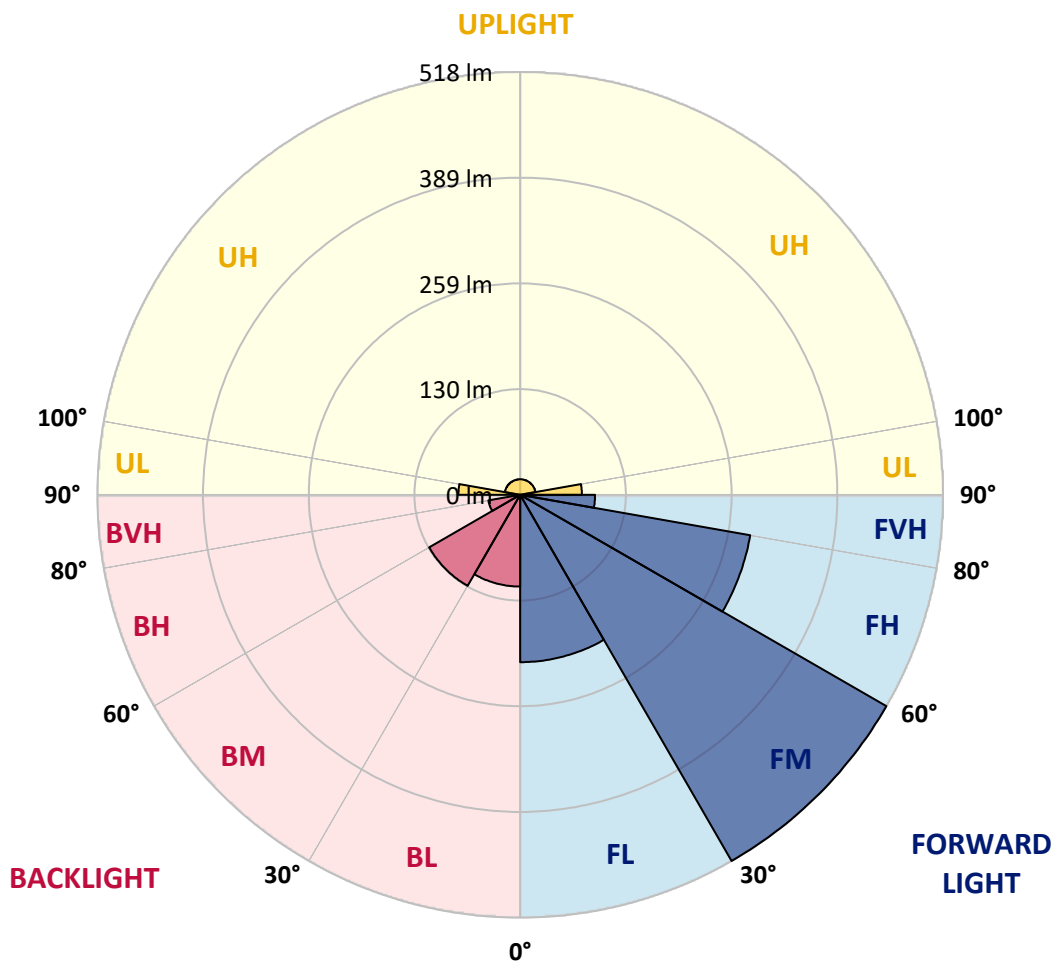
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	205.1	12.7			
FM (30°-60°)	518.0	32.0			
FH (60°-80°)	286.2	17.7			G0/660
FVH (80°-90°)	91.8	5.7			G1/100
BL (0°-30°)	112.4	6.9	B1/500		
BM (30°-60°)	128.8	8.0	B0/220		
BH (60°-80°)	39.5	2.4	B0/110		G0/110
BVH (80°-90°)	7.6	0.5			G0/10
UL (90°-100°)	75.6	4.7		U3/500	
UH (100°-180°)	19.0	1.2		U2/50	

BUG Rating: B1-U3-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	362.9	362.9	362.9	362.9	362.9	362.9	362.9	362.9	362.9	362.9	362.9
2.5°	449.9	448.2	446.4	444.0	436.2	429.1	416.0	404.1	389.2	370.1	362.3
5°	480.3	478.0	477.4	475.6	471.4	465.4	455.9	439.2	412.4	376.6	361.7
7.5°	495.8	494.6	492.9	491.1	484.5	479.7	472.6	458.3	431.5	383.2	360.6
10°	509.5	508.3	505.4	501.8	495.8	488.1	478.5	466.6	444.6	390.3	359.4
12.5°	523.8	523.2	520.3	513.7	505.4	495.2	483.9	468.4	449.9	395.1	357.6
15°	533.4	532.8	530.4	525.6	516.7	503.6	488.1	470.8	449.3	400.5	356.4
17.5°	537.5	537.0	535.2	532.2	523.2	510.1	492.3	470.8	447.6	402.9	352.8
20°	537.0	536.4	533.4	530.4	524.4	514.3	495.8	469.6	443.4	403.5	348.6
22.5°	554.8	554.2	545.3	531.0	521.5	512.5	497.0	470.2	437.4	401.7	345.7
25°	562.6	562.0	561.4	550.1	523.2	506.6	494.6	468.4	431.5	395.7	341.5
27.5°	541.7	541.7	544.1	548.3	537.5	503.0	488.1	465.4	424.9	388.0	336.1
30°	538.1	538.1	533.4	528.0	532.8	508.9	478.5	459.5	417.2	376.0	328.4
32.5°	547.7	547.7	540.5	526.2	514.3	509.5	470.8	449.9	408.2	362.3	319.4
35°	546.5	545.9	543.5	531.6	508.9	492.9	466.6	435.0	396.9	344.5	308.1
37.5°	523.8	522.6	523.8	525.0	509.5	480.3	457.1	420.1	382.6	327.2	294.4
40°	506.6	505.4	501.2	500.0	500.0	474.4	440.4	405.2	367.1	310.5	280.7
42.5°	510.7	510.1	499.4	485.1	478.5	463.7	422.5	389.8	348.6	292.0	272.3
45°	516.7	517.9	510.1	491.1	464.2	444.0	404.7	368.9	334.9	280.7	253.9
47.5°	556.0	559.6	537.0	507.2	468.4	427.9	387.4	354.6	323.6	262.8	240.8
50°	633.5	635.9	598.9	547.7	487.5	424.3	374.9	346.2	301.6	252.1	221.7
52.5°	703.2	702.6	673.4	607.3	519.1	430.3	374.9	330.8	298.0	235.4	207.4
54°	722.3	718.7	694.3	635.3	539.3	438.6	378.4	324.8	287.8	221.7	201.4
55°	720.5	716.3	695.5	644.2	548.3	444.6	378.4	324.2	272.3	212.2	191.3
57.5°	674.6	672.2	655.0	623.4	549.5	447.6	378.4	320.0	265.8	203.8	174.6
60°	589.4	583.4	570.3	551.9	507.8	426.1	385.6	320.6	259.8	191.9	166.3
62.5°	505.4	503.0	485.7	472.0	436.8	389.2	347.4	308.7	255.1	182.4	153.8
65°	439.8	431.5	417.2	395.1	361.1	334.3	313.5	302.7	243.1	167.5	140.0
67.5°	389.2	387.4	370.7	342.7	305.7	285.5	291.4	282.5	236.0	161.5	126.3
70°	361.7	359.4	342.1	309.3	267.6	241.4	245.5	241.4	226.5	154.4	113.8
72.5°	344.5	342.1	323.0	286.7	243.7	206.2	217.5	230.0	218.7	144.2	99.5
75°	329.6	326.6	306.3	270.0	225.9	188.3	191.9	209.8	200.8	140.0	87.0
77.5°	315.3	311.7	291.4	255.7	214.5	175.8	168.7	166.3	175.8	127.5	74.5
80°	299.8	297.4	277.7	243.1	205.6	163.9	160.9	165.7	149.6	104.9	60.8
82.5°	281.9	280.1	262.8	230.6	195.5	154.4	149.6	143.0	136.5	83.4	39.9
85°	265.2	264.0	247.9	218.1	185.3	146.6	140.6	134.1	122.2	67.3	25.6
87.5°	248.5	246.1	230.6	205.6	175.2	138.3	127.5	122.2	103.7	44.1	20.9
90°	231.2	230.0	216.9	193.7	166.3	132.9	125.1	110.8	91.8	36.4	17.3
92.5°	216.3	215.1	203.2	182.4	159.1	126.3	116.8	100.1	76.3	28.6	16.1
95°	223.5	222.3	209.8	187.1	159.7	126.9	108.5	92.4	66.2	25.0	16.1
97.5°	209.2	208.0	197.9	178.8	154.4	123.4	100.7	81.0	53.6	23.2	17.3
100°	196.7	193.7	184.7	168.7	146.6	113.8	92.4	69.1	46.5	23.8	18.5
102.5°	166.3	165.1	159.1	145.4	124.6	100.1	82.8	62.6	43.5	25.0	19.7
105°	143.6	143.0	138.9	129.9	112.0	90.6	74.5	58.4	41.1	25.6	20.9
107.5°	131.1	130.5	125.7	117.4	103.1	85.8	70.9	56.0	38.7	26.8	21.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	121.0	120.4	116.2	107.9	94.2	81.6	68.5	52.4	36.9	26.8	22.1
112.5°	109.7	109.1	106.1	99.5	87.6	76.9	64.4	48.3	35.8	26.8	21.5
115°	99.5	98.9	95.9	90.6	81.0	71.5	59.6	44.7	35.2	26.2	20.9
117.5°	90.6	90.0	87.6	82.8	74.5	66.2	54.8	42.3	34.6	25.0	20.3
120°	82.2	81.6	79.9	75.1	68.5	62.0	51.3	40.5	33.4	23.8	19.1
122.5°	76.9	76.3	73.9	70.3	63.8	57.8	48.3	40.5	32.2	22.6	17.9
125°	69.7	69.1	67.9	64.4	60.2	54.8	46.5	38.7	30.4	20.9	16.7
127.5°	65.6	65.6	63.8	60.2	57.8	51.8	44.7	36.9	28.6	19.1	14.9
130°	59.6	59.0	58.4	58.4	54.8	48.9	43.5	35.2	26.8	17.3	13.7
132.5°	57.2	57.8	57.8	56.0	51.8	47.1	41.1	32.8	25.0	16.1	12.5
135°	57.2	57.2	55.4	53.6	49.5	47.7	38.7	30.4	23.8	14.3	11.9
137.5°	54.2	53.6	52.4	50.1	51.3	44.7	36.4	28.6	22.1	13.1	10.7
140°	50.1	50.1	49.5	53.0	49.5	40.5	34.0	26.8	20.3	11.9	9.5
142.5°	54.2	55.4	57.2	51.3	43.5	38.1	31.6	25.6	18.5	10.1	8.9
145°	51.8	51.8	49.5	44.1	41.1	35.2	29.8	23.8	17.3	8.9	7.7
147.5°	44.7	44.7	43.5	41.7	36.9	33.4	27.4	22.1	15.5	7.7	7.2
150°	41.7	41.7	39.3	36.9	35.2	29.8	25.0	19.7	13.7	6.6	6.6
152.5°	36.4	36.4	36.4	35.2	31.0	26.8	23.2	17.3	11.9	6.0	6.0
155°	34.6	34.6	32.8	29.8	26.8	23.8	19.7	14.9	10.1	5.4	4.8
157.5°	29.2	28.6	28.0	26.2	24.4	21.5	17.3	13.1	8.9	4.8	4.2
160°	25.6	25.6	24.4	23.2	21.5	17.9	14.3	10.7	7.2	3.6	3.6
162.5°	21.5	21.5	20.9	19.7	17.3	14.9	11.9	8.9	6.0	3.0	3.0
165°	17.9	17.3	16.7	15.5	13.7	11.9	8.9	7.2	4.2	2.4	2.4
167.5°	13.1	13.1	12.5	11.9	10.7	7.7	6.6	4.8	2.4	2.4	1.8
170°	9.5	9.5	8.9	7.2	6.0	5.4	4.2	3.0	1.8	1.8	1.8
172.5°	3.6	3.6	3.6	3.6	3.0	2.4	2.4	1.2	1.2	1.2	1.2
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°	362.9	362.9	362.9	362.9	362.9	362.9	362.9	362.9	362.9	362.9
2.5°	356.4	346.2	339.7	336.1	335.5	336.1	337.3	339.1	339.1	339.7
5°	349.2	336.7	336.7	341.5	348.6	353.4	357.0	358.8	360.0	359.4
7.5°	343.3	334.3	343.9	354.6	360.6	362.3	361.7	361.7	360.6	360.6
10°	337.3	334.3	350.4	359.4	358.8	354.0	349.8	345.1	342.7	344.5
12.5°	331.3	335.5	352.2	354.6	348.0	335.5	327.8	323.0	320.0	318.8
15°	326.6	336.7	351.6	346.2	328.4	315.9	307.5	302.1	298.0	298.0
17.5°	321.2	336.7	343.9	328.4	310.5	296.8	285.5	271.2	265.8	262.8
20°	315.3	333.1	334.3	311.1	292.6	271.8	243.1	216.3	203.8	199.6
22.5°	309.9	327.8	318.8	294.4	270.6	229.4	184.1	153.8	138.3	138.9
25°	303.3	319.4	301.0	276.5	234.8	171.6	129.3	108.5	102.5	101.3
27.5°	296.2	309.3	286.1	253.3	189.5	125.7	100.7	90.6	87.0	85.8
30°	287.8	297.4	268.8	221.7	140.6	98.9	86.4	81.0	79.3	78.7
32.5°	277.7	282.5	249.7	183.6	111.4	85.8	78.7	76.3	75.7	76.3
35°	267.0	264.6	228.2	144.2	91.2	77.5	75.1	75.1	76.9	76.9
37.5°	253.9	245.5	202.0	113.8	80.5	73.3	73.9	79.3	85.2	85.8
40°	241.4	227.1	172.2	93.0	72.7	70.3	76.9	91.8	103.1	104.3
42.5°	230.6	209.8	141.2	79.9	67.9	70.3	87.0	109.1	121.0	122.2
45°	221.7	193.7	116.2	71.5	64.4	72.1	100.7	121.6	124.6	124.6
47.5°	203.2	171.6	94.8	63.8	62.0	78.1	111.4	118.0	111.4	110.8
50°	196.7	153.8	79.9	57.8	60.2	85.8	110.8	100.7	85.8	84.6
52.5°	172.2	131.1	67.9	54.2	60.2	92.4	100.1	74.5	62.0	61.4
54°	169.8	120.4	62.6	51.8	60.2	93.6	88.2	62.0	53.0	51.8
55°	169.3	113.8	59.0	50.7	60.8	93.0	80.5	56.0	47.1	47.1
57.5°	144.8	95.4	52.4	47.7	62.0	85.8	62.0	44.7	38.7	37.5
60°	132.9	81.6	47.1	44.7	62.6	75.1	47.7	36.4	31.6	31.0
62.5°	120.4	68.5	42.9	42.3	61.4	61.4	39.9	30.4	26.8	26.8
65°	103.7	57.8	38.7	39.9	59.0	48.9	32.8	26.2	23.2	23.2
67.5°	94.8	48.9	35.8	37.5	54.2	39.3	28.0	22.1	19.7	19.7
70°	81.0	41.7	32.8	35.2	48.3	33.4	23.2	19.1	17.3	16.7
72.5°	71.5	35.8	30.4	32.8	41.7	27.4	20.3	16.7	14.3	14.3
75°	56.6	31.6	28.0	30.4	35.8	22.1	16.7	13.7	11.9	11.9
77.5°	39.9	26.8	25.6	27.4	29.2	18.5	14.3	11.9	10.1	10.1
80°	29.8	23.2	23.8	25.0	24.4	15.5	11.9	10.1	8.3	8.3
82.5°	22.6	20.3	21.5	22.1	20.3	13.1	10.1	8.3	6.6	6.6
85°	17.3	17.9	19.7	19.1	15.5	11.3	8.9	6.6	4.8	4.8
87.5°	14.9	16.1	17.9	16.7	11.9	8.3	6.0	4.2	3.0	2.4
90°	13.7	14.9	16.1	13.7	9.5	6.6	3.6	2.4	1.2	0.6
92.5°	13.7	14.3	14.9	12.5	8.3	5.4	3.6	1.8	0.6	0.6
95°	14.3	14.3	14.9	11.9	7.7	4.8	3.0	1.2	0.6	0.0
97.5°	15.5	14.9	14.3	11.3	7.7	4.8	2.4	1.2	0.6	0.0
100°	16.7	14.9	14.3	11.3	7.7	4.8	2.4	1.2	0.6	0.0
102.5°	17.3	15.5	14.3	11.3	7.7	4.8	2.4	1.2	0.6	0.0
105°	17.9	15.5	13.7	10.7	7.2	4.8	2.4	1.2	0.6	0.0
107.5°	18.5	14.9	13.7	10.7	7.2	4.2	2.4	1.2	0.6	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	18.5	14.9	13.1	10.1	7.2	4.2	2.4	1.2	0.6	0.0
112.5°	18.5	14.3	12.5	10.1	7.2	4.2	2.4	1.2	0.6	0.0
115°	17.9	13.7	11.9	9.5	6.6	4.2	2.4	1.2	0.6	0.0
117.5°	17.3	13.1	11.3	8.9	6.6	4.2	2.4	1.2	0.6	0.0
120°	16.1	12.5	10.7	8.9	6.0	3.6	1.8	1.2	0.0	0.0
122.5°	15.5	11.9	10.1	8.3	6.0	3.6	1.8	1.2	0.0	0.0
125°	14.3	11.3	9.5	7.7	5.4	3.6	1.8	1.2	0.0	0.0
127.5°	13.1	10.7	8.9	7.2	5.4	3.0	1.8	1.2	0.0	0.0
130°	12.5	10.1	8.3	7.2	4.8	3.0	1.8	1.2	0.0	0.0
132.5°	11.3	9.5	7.7	6.6	4.8	3.0	1.8	1.2	0.0	0.0
135°	10.7	8.9	7.2	6.0	4.2	2.4	1.8	1.2	0.0	0.0
137.5°	9.5	8.3	7.2	5.4	4.2	2.4	1.2	0.6	0.0	0.0
140°	8.9	7.7	6.6	4.8	3.6	2.4	1.2	0.6	0.0	0.0
142.5°	8.3	7.2	6.0	4.8	3.0	1.8	1.2	0.6	0.0	0.0
145°	7.7	6.6	5.4	4.2	3.0	1.8	1.2	0.6	0.0	0.0
147.5°	6.6	6.0	4.8	3.6	2.4	1.8	1.2	0.6	0.0	0.0
150°	6.0	5.4	4.2	3.6	2.4	1.2	0.6	0.6	0.0	0.0
152.5°	5.4	4.8	4.2	3.0	2.4	1.2	0.6	0.6	0.0	0.0
155°	4.8	4.2	3.6	2.4	1.8	1.2	0.6	0.0	0.0	0.0
157.5°	4.2	3.6	3.0	2.4	1.8	1.2	0.6	0.0	0.0	0.0
160°	3.6	3.0	2.4	1.8	1.2	0.6	0.6	0.0	0.0	0.0
162.5°	3.0	2.4	2.4	1.8	1.2	0.6	0.0	0.0	0.0	0.0
165°	2.4	2.4	1.8	1.2	1.2	0.6	0.0	0.0	0.0	0.0
167.5°	1.8	1.8	1.8	1.2	0.6	0.6	0.0	0.0	0.0	0.0
170°	1.8	1.8	1.2	1.2	0.6	0.0	0.0	0.0	0.0	0.0
172.5°	1.2	1.2	1.2	0.6	0.6	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)