

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: P290558

Luminaire Tested: **AXCS1ARL-GRF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290558  
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: AXCS1ARL-GRF  
Description: 1ARL AXCENT SMALL LED WALLPACK WITH 4000K CCT AND 70 CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1843 lumens  
Efficiency: N/A  
Efficacy: 136.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 0.5' x H: 0.17')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U3 - G2

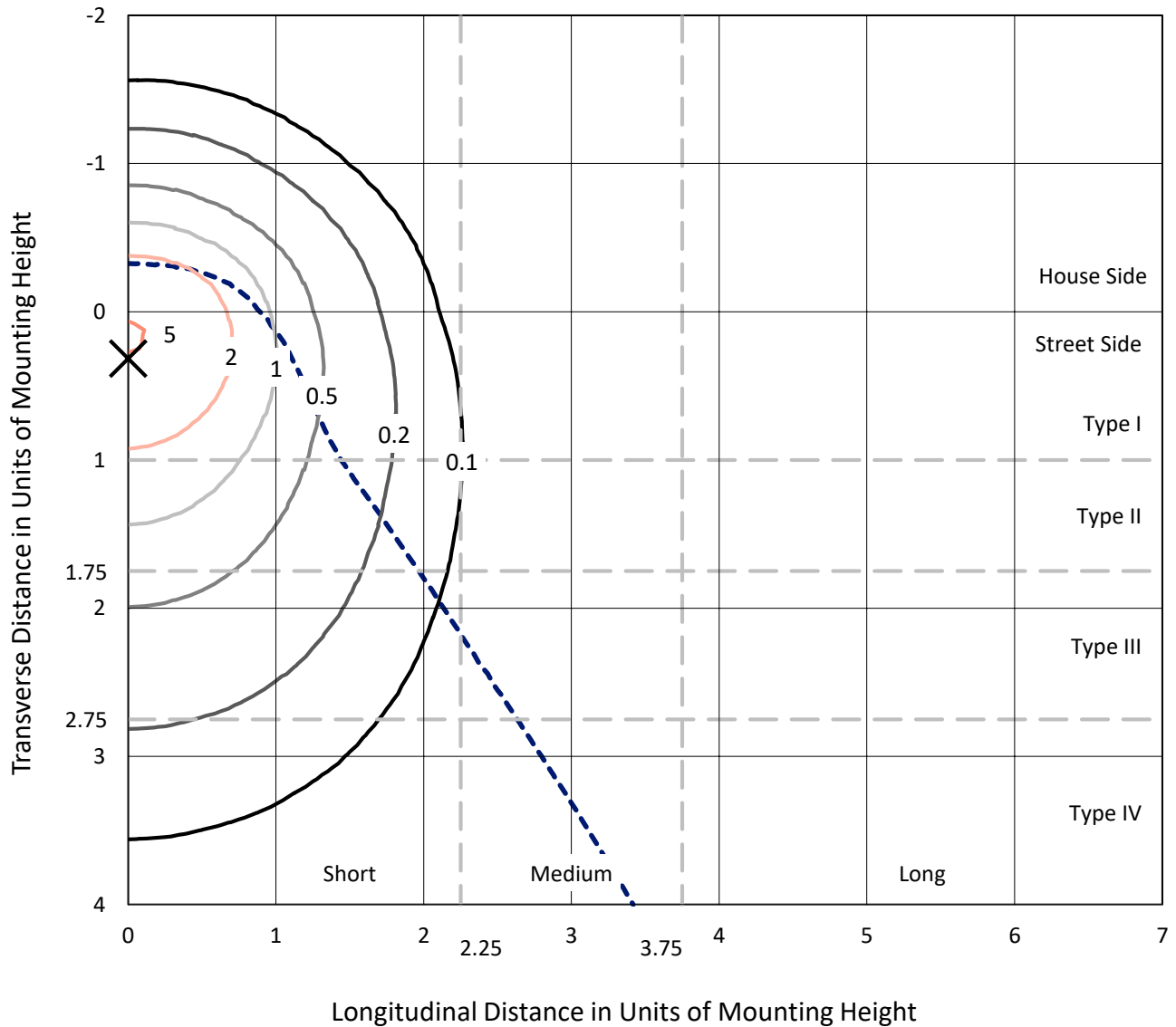
Input Watts (W): 13.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

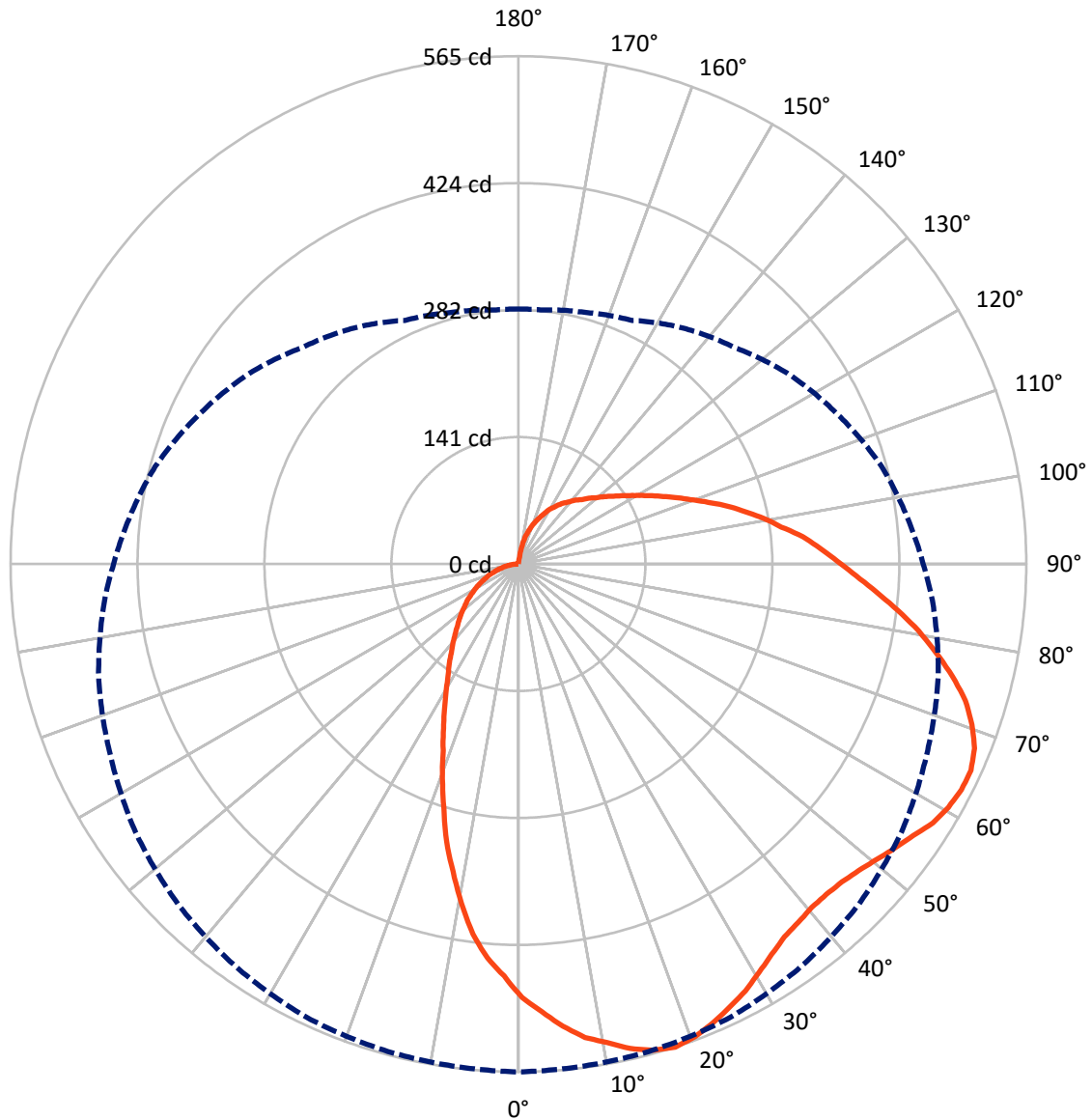
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 17.5-Deg Vertical

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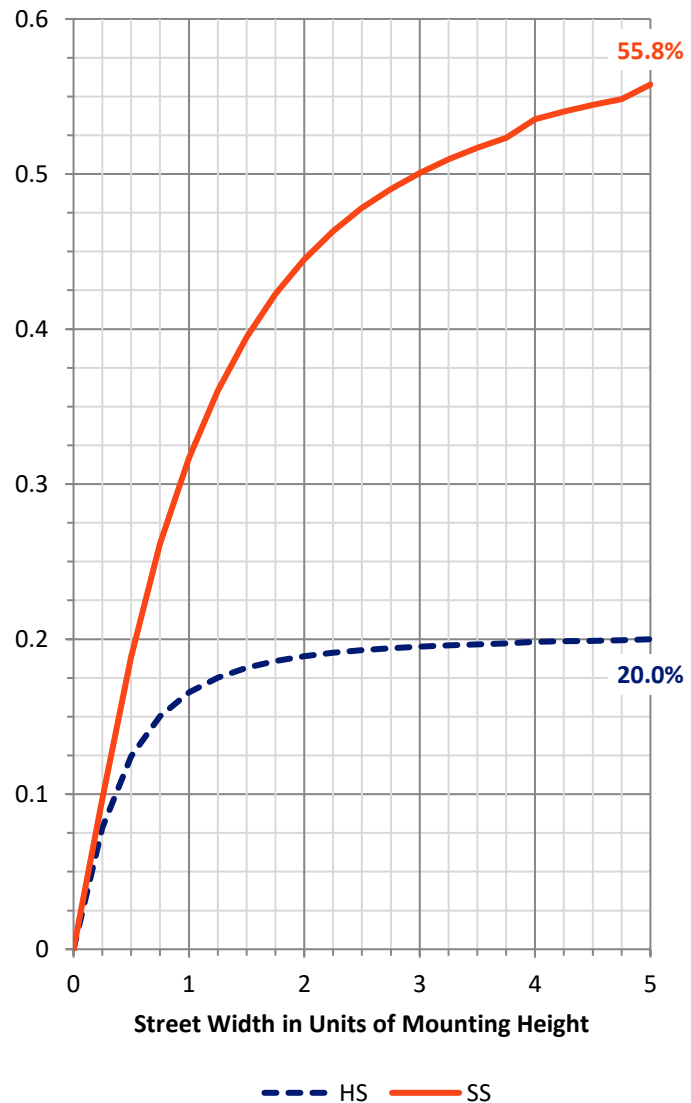
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	375.3	27.6	402.8
	% Fixture	20.4	1.5	21.9
<b>Street Side</b>	Lumens	1116.0	324.1	1440.2
	% Fixture	60.6	17.6	78.1
<b>Total</b>	Lumens	1491.3	351.7	1843.0
	% Fixture	80.9	19.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.4	2.5
10°-20°	126.4	6.9
20°-30°	180.1	9.8
30°-40°	205.2	11.1
40°-50°	212.3	11.5
50°-60°	211.3	11.5
60°-70°	201.8	10.9
70°-80°	174.3	9.5
80°-90°	134.7	7.3
90°-100°	105.9	5.7
100°-110°	82.9	4.5
110°-120°	60.4	3.3
120°-130°	42.8	2.3
130°-140°	29.2	1.6
140°-150°	18.3	1.0
150°-160°	9.3	0.5
160°-170°	2.9	0.2
170°-180°	0.1	0.0
0°-90°	1491.3	80.9
0°-180°	1843.0	100.0

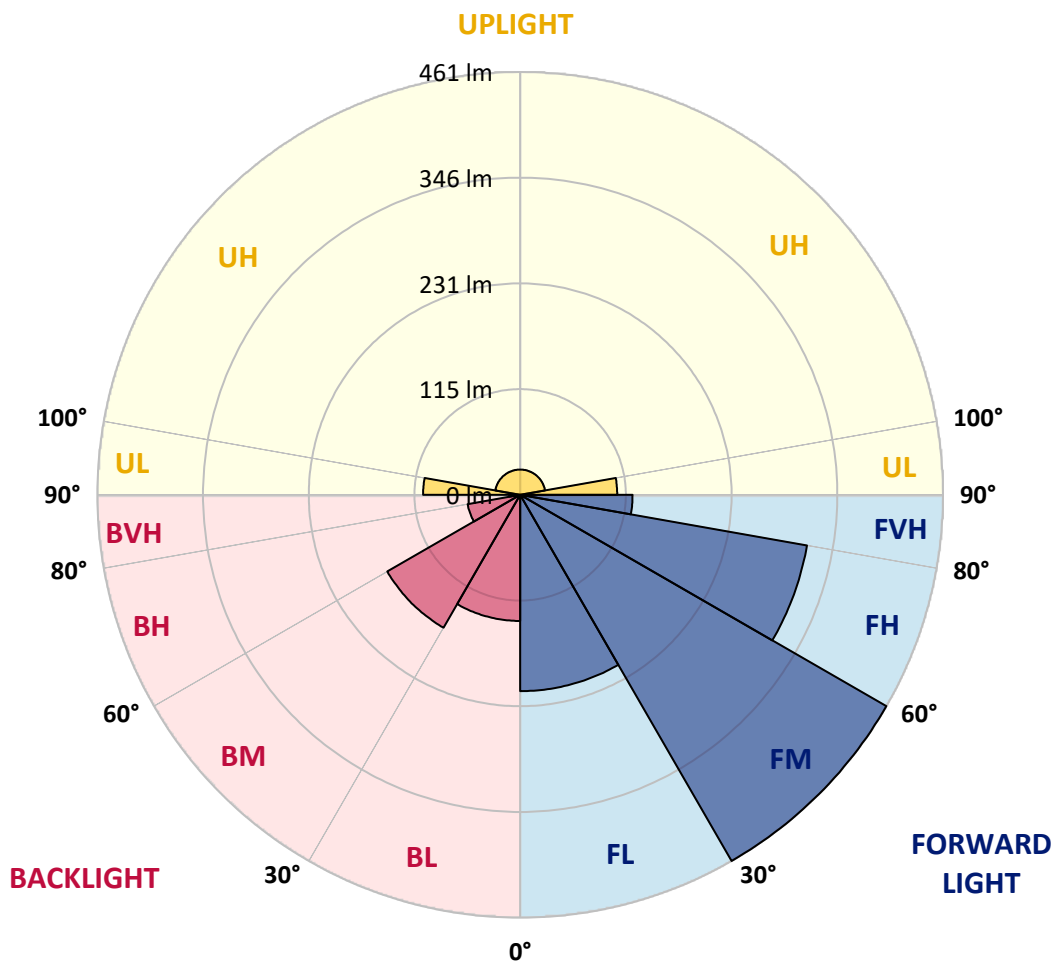


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	214.2	11.6			
FM	(30°-60°)	461.4	25.0			
FH	(60°-80°)	317.8	17.2			G0/660
FVH	(80°-90°)	122.6	6.7			G2/225
BL	(0°-30°)	137.6	7.5	B1/500		
BM	(30°-60°)	167.4	9.1	B0/220		
BH	(60°-80°)	58.2	3.2	B0/110		G0/110
BVH	(80°-90°)	12.0	0.7			G1/100
UL	(90°-100°)	105.9	5.7		U3/500	
UH	(100°-180°)	27.6	1.5		U2/50	

**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°	482.1	482.1	482.1	482.1	482.1	482.1	482.1	482.1	482.1	482.1	482.1
2.5°	498.6	497.4	496.3	496.3	495.1	492.7	491.5	489.2	486.8	483.3	482.1
5°	516.3	515.2	514.0	512.8	510.4	505.7	502.2	497.4	491.5	485.6	482.1
7.5°	531.7	530.5	529.3	525.8	522.2	515.2	509.3	502.2	493.9	484.4	478.5
10°	541.2	540.0	538.8	535.2	529.3	521.1	512.8	502.2	491.5	479.7	472.6
12.5°	553.0	551.8	549.4	544.7	537.6	527.0	516.3	503.3	490.3	475.0	465.5
15°	561.2	561.2	558.9	553.0	544.7	532.9	519.9	504.5	488.0	470.3	459.6
17.5°	564.8	563.6	561.2	556.5	547.1	535.2	519.9	501.0	483.3	462.0	450.2
20°	561.2	561.2	558.9	553.0	544.7	531.7	515.2	495.1	473.8	449.0	437.2
22.5°	554.2	554.2	551.8	547.1	538.8	525.8	508.1	486.8	462.0	436.0	423.0
25°	545.9	545.9	543.5	538.8	531.7	518.7	499.8	477.3	451.4	423.0	407.6
27.5°	537.6	536.4	535.2	529.3	523.4	509.3	491.5	465.5	438.4	407.6	392.3
30°	527.0	527.0	523.4	518.7	510.4	496.3	477.3	452.5	423.0	391.1	374.6
32.5°	517.5	517.5	514.0	505.7	496.3	482.1	462.0	436.0	406.5	372.2	354.5
35°	509.3	509.3	504.5	496.3	483.3	466.7	446.6	419.5	388.7	352.1	334.4
37.5°	505.7	504.5	498.6	486.8	471.4	452.5	430.1	402.9	369.8	333.2	315.5
40°	502.2	501.0	493.9	478.5	459.6	437.2	412.4	382.8	350.9	314.3	293.0
42.5°	502.2	499.8	491.5	472.6	449.0	423.0	394.6	363.9	330.8	291.8	272.9
45°	504.5	502.2	491.5	469.1	440.7	408.8	376.9	345.0	311.9	271.8	254.0
47.5°	509.3	506.9	492.7	466.7	432.5	394.6	360.4	326.1	288.3	252.9	235.1
50°	516.3	514.0	497.4	465.5	425.4	382.8	342.7	306.0	269.4	233.9	216.2
52.5°	524.6	522.2	503.3	466.7	420.6	372.2	327.3	285.9	251.7	216.2	198.5
55°	532.9	531.7	510.4	469.1	415.9	361.6	310.7	269.4	233.9	197.3	182.0
57.5°	543.5	540.0	516.3	471.4	412.4	352.1	295.4	252.9	217.4	182.0	165.4
60°	549.4	547.1	521.1	472.6	408.8	342.7	281.2	237.5	200.9	165.4	151.2
62.5°	553.0	550.6	523.4	471.4	402.9	332.0	269.4	223.3	185.5	151.2	137.1
65°	553.0	549.4	522.2	467.9	397.0	322.6	257.6	209.1	171.3	138.2	124.1
67.5°	547.1	543.5	515.2	462.0	388.7	309.6	244.6	196.1	157.1	124.1	111.1
70°	535.2	531.7	504.5	451.4	376.9	297.8	232.8	184.3	145.3	112.2	99.3
72.5°	519.9	516.3	489.2	437.2	363.9	284.8	219.8	171.3	132.3	100.4	88.6
75°	498.6	496.3	470.3	420.6	349.7	271.8	209.1	159.5	120.5	89.8	78.0
77.5°	475.0	472.6	447.8	400.5	333.2	257.6	196.1	148.9	109.9	79.2	67.3
80°	451.4	447.8	425.4	380.5	313.1	243.4	184.3	138.2	99.3	68.5	59.1
82.5°	425.4	421.8	400.5	358.0	294.2	229.2	172.5	127.6	89.8	60.3	49.6
85°	399.4	397.0	376.9	336.7	276.5	215.0	161.9	118.2	81.5	52.0	42.5
87.5°	375.7	373.4	354.5	315.5	259.9	203.2	152.4	111.1	74.4	44.9	36.6
90°	354.5	353.3	334.4	295.4	245.8	193.8	145.3	105.2	70.9	41.4	34.3
92.5°	335.6	333.2	316.7	281.2	235.1	186.7	141.8	104.0	68.5	41.4	33.1
95°	317.8	315.5	296.6	265.9	224.5	178.4	137.1	100.4	67.3	40.2	33.1
97.5°	295.4	294.2	280.0	251.7	212.7	171.3	132.3	98.1	65.0	39.0	31.9
100°	277.7	275.3	262.3	237.5	202.0	163.1	127.6	94.5	63.8	37.8	30.7
102.5°	258.8	257.6	246.9	222.1	190.2	154.8	121.7	91.0	61.4	37.8	30.7
105°	241.0	238.7	229.2	208.0	178.4	146.5	115.8	87.4	59.1	36.6	29.5
107.5°	222.1	221.0	211.5	192.6	167.8	139.4	111.1	83.9	57.9	35.4	28.4
110°	204.4	203.2	196.1	178.4	156.0	130.0	105.2	79.2	55.5	33.1	27.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	189.0	187.9	180.8	166.6	146.5	122.9	100.4	75.6	53.2	31.9	26.0
115°	174.9	173.7	167.8	154.8	137.1	115.8	94.5	73.3	50.8	30.7	24.8
117.5°	161.9	160.7	156.0	144.2	128.8	109.9	89.8	69.7	48.4	29.5	23.6
120°	150.1	148.9	144.2	134.7	120.5	104.0	86.3	66.2	46.1	28.4	22.4
122.5°	139.4	138.2	134.7	125.2	113.4	98.1	81.5	63.8	43.7	27.2	21.3
125°	130.0	128.8	125.2	118.2	107.5	93.3	78.0	60.3	42.5	24.8	20.1
127.5°	121.7	120.5	117.0	111.1	100.4	88.6	74.4	57.9	40.2	23.6	18.9
130°	113.4	113.4	109.9	104.0	94.5	83.9	70.9	54.4	37.8	22.4	17.7
132.5°	107.5	106.3	104.0	99.3	91.0	79.2	67.3	52.0	35.4	21.3	16.5
135°	100.4	100.4	98.1	93.3	85.1	75.6	63.8	48.4	33.1	18.9	15.4
137.5°	95.7	94.5	92.2	88.6	81.5	72.1	60.3	46.1	31.9	17.7	14.2
140°	89.8	89.8	87.4	82.7	76.8	67.3	55.5	42.5	29.5	16.5	13.0
142.5°	85.1	83.9	82.7	78.0	72.1	62.6	52.0	40.2	27.2	15.4	11.8
145°	80.3	79.2	78.0	73.3	67.3	59.1	48.4	36.6	24.8	13.0	10.6
147.5°	74.4	74.4	72.1	68.5	62.6	54.4	44.9	34.3	22.4	11.8	9.5
150°	69.7	68.5	67.3	62.6	56.7	49.6	41.4	30.7	20.1	10.6	8.3
152.5°	62.6	62.6	60.3	56.7	52.0	44.9	36.6	28.4	18.9	8.3	7.1
155°	56.7	56.7	54.4	52.0	46.1	40.2	33.1	24.8	16.5	7.1	7.1
157.5°	50.8	50.8	48.4	46.1	41.4	35.4	29.5	21.3	14.2	5.9	5.9
160°	44.9	43.7	42.5	40.2	35.4	30.7	24.8	17.7	11.8	4.7	4.7
162.5°	37.8	37.8	36.6	34.3	30.7	26.0	20.1	14.2	9.5	3.5	3.5
165°	31.9	30.7	29.5	27.2	23.6	18.9	14.2	10.6	7.1	3.5	2.4
167.5°	23.6	23.6	22.4	20.1	15.4	11.8	10.6	7.1	4.7	2.4	2.4
170°	13.0	11.8	9.5	9.5	9.5	7.1	5.9	4.7	2.4	1.2	1.2
172.5°	0.0	0.0	1.2	2.4	2.4	3.5	2.4	2.4	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°	482.1	482.1	482.1	482.1	482.1	482.1	482.1	482.1	482.1	482.1
2.5°	479.7	475.0	471.4	469.1	464.4	463.2	459.6	459.6	458.4	458.4
5°	478.5	471.4	464.4	458.4	452.5	447.8	443.1	441.9	439.5	439.5
7.5°	473.8	464.4	454.9	445.4	434.8	427.7	420.6	417.1	413.5	414.7
10°	465.5	453.7	440.7	426.5	413.5	401.7	392.3	385.2	381.6	382.8
12.5°	458.4	443.1	425.4	408.8	389.9	375.7	362.7	354.5	349.7	349.7
15°	450.2	432.5	410.0	389.9	366.3	347.4	332.0	323.7	319.0	319.0
17.5°	439.5	418.3	392.3	367.5	340.3	320.2	298.9	289.5	283.6	283.6
20°	425.4	400.5	372.2	341.5	311.9	288.3	269.4	258.8	252.9	252.9
22.5°	410.0	382.8	349.7	317.8	284.8	259.9	243.4	231.6	225.7	223.3
25°	394.6	365.1	329.7	291.8	261.1	237.5	219.8	208.0	202.0	200.9
27.5°	376.9	346.2	307.2	270.6	238.7	215.0	198.5	187.9	182.0	180.8
30°	359.2	326.1	284.8	248.1	217.4	195.0	178.4	169.0	164.2	163.1
32.5°	339.1	303.7	263.5	228.0	197.3	176.1	161.9	153.6	148.9	147.7
35°	320.2	282.4	243.4	208.0	180.8	160.7	148.9	139.4	135.9	135.9
37.5°	297.8	263.5	224.5	191.4	165.4	147.7	135.9	127.6	125.2	124.1
40°	277.7	244.6	206.8	176.1	151.2	135.9	125.2	118.2	114.6	114.6
42.5°	258.8	225.7	190.2	160.7	139.4	124.1	115.8	108.7	106.3	105.2
45°	239.9	208.0	174.9	147.7	127.6	114.6	106.3	100.4	98.1	96.9
47.5°	221.0	191.4	160.7	135.9	118.2	105.2	98.1	93.3	89.8	89.8
50°	203.2	176.1	147.7	124.1	107.5	98.1	91.0	86.3	82.7	82.7
52.5°	186.7	160.7	134.7	114.6	99.3	89.8	83.9	79.2	76.8	75.6
55°	171.3	146.5	122.9	105.2	91.0	82.7	76.8	72.1	69.7	69.7
57.5°	156.0	133.5	112.2	95.7	83.9	75.6	70.9	66.2	63.8	62.6
60°	141.8	121.7	102.8	87.4	76.8	69.7	63.8	60.3	57.9	56.7
62.5°	128.8	111.1	93.3	79.2	69.7	62.6	57.9	54.4	52.0	50.8
65°	115.8	100.4	83.9	72.1	62.6	56.7	52.0	48.4	46.1	44.9
67.5°	104.0	89.8	76.8	65.0	56.7	50.8	46.1	42.5	40.2	39.0
70°	93.3	80.3	68.5	57.9	50.8	44.9	41.4	36.6	34.3	34.3
72.5°	82.7	72.1	60.3	50.8	43.7	39.0	35.4	31.9	29.5	28.4
75°	73.3	62.6	53.2	44.9	39.0	34.3	29.5	26.0	24.8	23.6
77.5°	63.8	54.4	46.1	39.0	33.1	28.4	24.8	21.3	20.1	18.9
80°	54.4	47.3	40.2	33.1	28.4	23.6	20.1	17.7	15.4	15.4
82.5°	46.1	40.2	34.3	28.4	23.6	20.1	16.5	13.0	11.8	10.6
85°	40.2	34.3	28.4	23.6	20.1	16.5	13.0	10.6	8.3	8.3
87.5°	34.3	29.5	24.8	21.3	16.5	11.8	9.5	5.9	4.7	3.5
90°	31.9	27.2	22.4	16.5	13.0	8.3	5.9	2.4	1.2	1.2
92.5°	30.7	26.0	21.3	16.5	11.8	8.3	4.7	2.4	0.0	0.0
95°	30.7	26.0	21.3	16.5	11.8	8.3	4.7	2.4	0.0	0.0
97.5°	29.5	26.0	21.3	16.5	11.8	8.3	4.7	2.4	0.0	0.0
100°	29.5	24.8	20.1	15.4	11.8	7.1	4.7	2.4	0.0	0.0
102.5°	28.4	23.6	20.1	15.4	10.6	7.1	4.7	2.4	0.0	0.0
105°	27.2	23.6	18.9	15.4	10.6	7.1	4.7	2.4	0.0	0.0
107.5°	26.0	22.4	18.9	14.2	10.6	7.1	4.7	2.4	0.0	0.0
110°	24.8	21.3	17.7	14.2	9.5	5.9	3.5	1.2	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	23.6	21.3	17.7	13.0	9.5	5.9	3.5	1.2	0.0	0.0
115°	23.6	20.1	16.5	13.0	9.5	5.9	3.5	1.2	0.0	0.0
117.5°	22.4	18.9	15.4	13.0	9.5	5.9	3.5	1.2	0.0	0.0
120°	21.3	17.7	15.4	11.8	8.3	5.9	3.5	1.2	0.0	0.0
122.5°	20.1	17.7	14.2	11.8	8.3	4.7	2.4	1.2	0.0	0.0
125°	18.9	16.5	14.2	10.6	8.3	4.7	2.4	1.2	0.0	0.0
127.5°	17.7	15.4	13.0	10.6	7.1	4.7	2.4	1.2	0.0	0.0
130°	16.5	14.2	11.8	9.5	7.1	3.5	2.4	0.0	0.0	0.0
132.5°	15.4	14.2	11.8	9.5	5.9	3.5	2.4	0.0	0.0	0.0
135°	14.2	13.0	10.6	8.3	5.9	3.5	1.2	0.0	0.0	0.0
137.5°	13.0	11.8	9.5	8.3	5.9	3.5	1.2	0.0	0.0	0.0
140°	11.8	10.6	9.5	7.1	4.7	2.4	1.2	0.0	0.0	0.0
142.5°	11.8	9.5	8.3	7.1	4.7	2.4	1.2	0.0	0.0	0.0
145°	10.6	9.5	8.3	5.9	4.7	2.4	1.2	0.0	0.0	0.0
147.5°	9.5	8.3	7.1	5.9	3.5	2.4	1.2	0.0	0.0	0.0
150°	8.3	7.1	5.9	4.7	3.5	1.2	1.2	0.0	0.0	0.0
152.5°	7.1	5.9	5.9	4.7	2.4	1.2	1.2	0.0	0.0	0.0
155°	5.9	5.9	4.7	3.5	2.4	1.2	0.0	0.0	0.0	0.0
157.5°	5.9	4.7	3.5	3.5	2.4	1.2	0.0	0.0	0.0	0.0
160°	4.7	3.5	3.5	2.4	1.2	1.2	0.0	0.0	0.0	0.0
162.5°	3.5	3.5	2.4	2.4	1.2	1.2	0.0	0.0	0.0	0.0
165°	2.4	2.4	2.4	1.2	1.2	1.2	0.0	0.0	0.0	0.0
167.5°	2.4	2.4	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
170°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
172.5°	1.2	1.2	1.2	1.2	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)