

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: P290561

Luminaire Tested: **AXCS2ARL-GRF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290561
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-GRF
Description: 2ARL AXCENT SMALL LED WALLPACK WITH 4000K CCT AND 70 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2613.9 lumens
Efficiency: N/A
Efficacy: 126.3 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

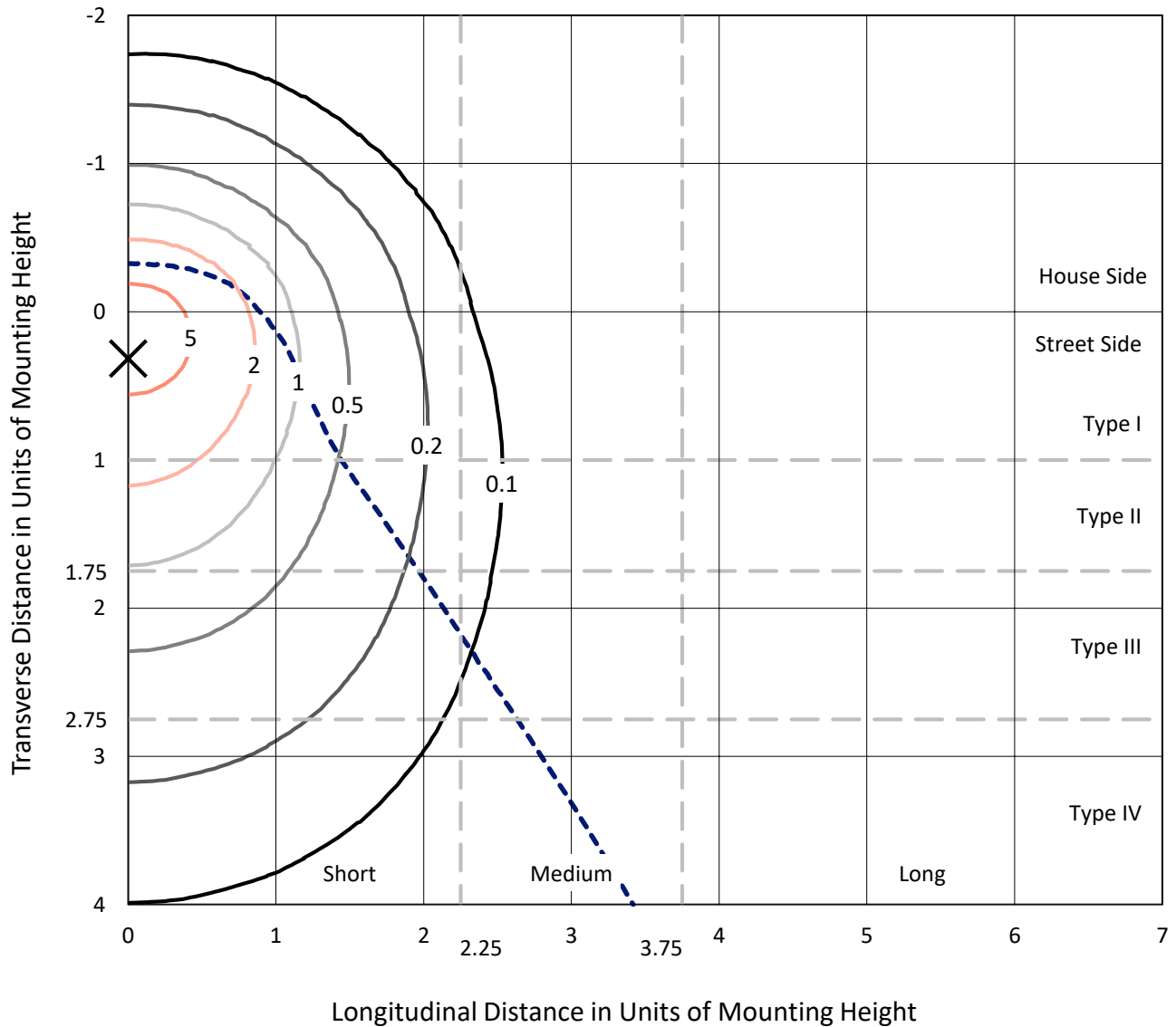
Input Watts (W): 20.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

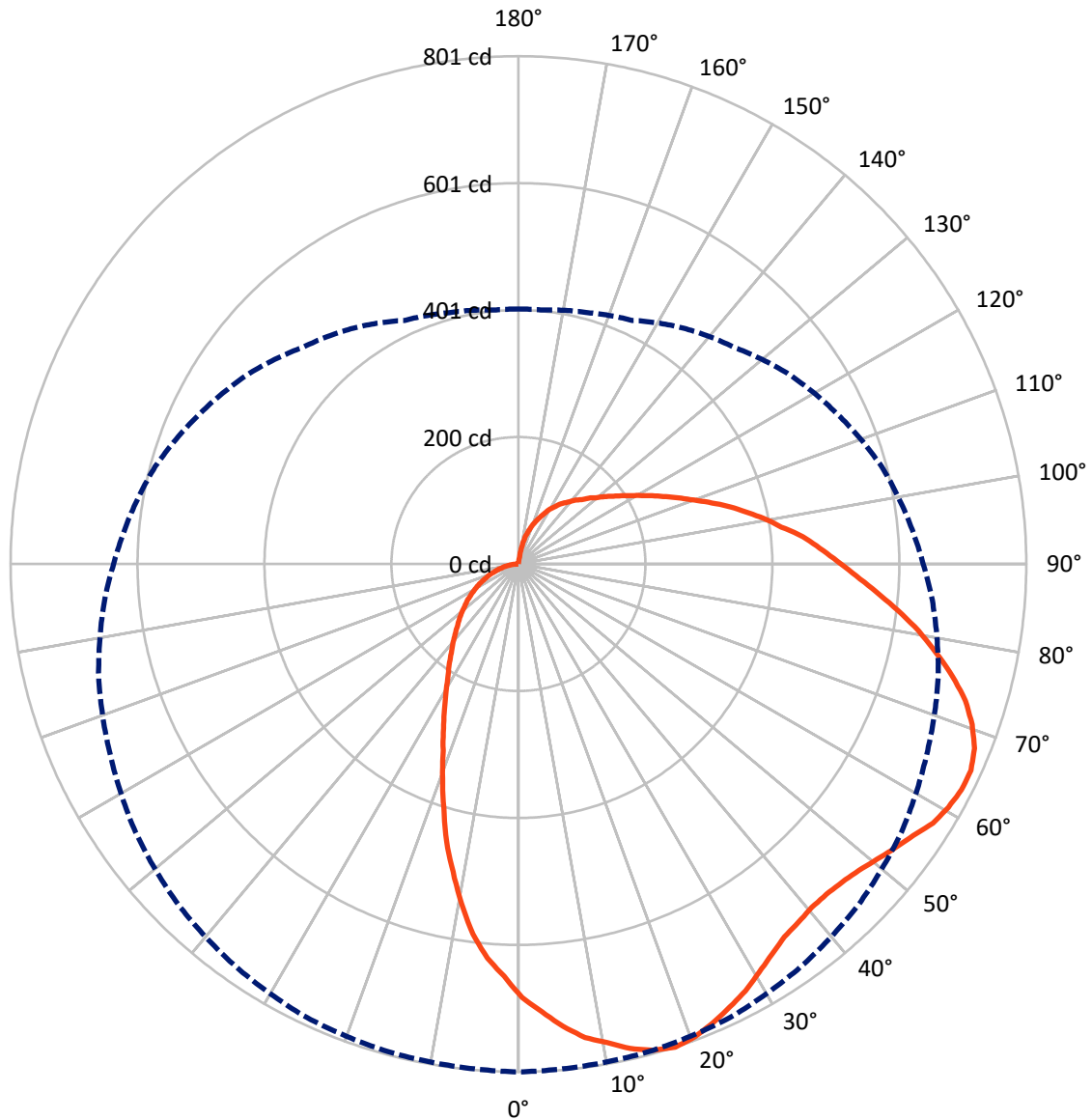
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 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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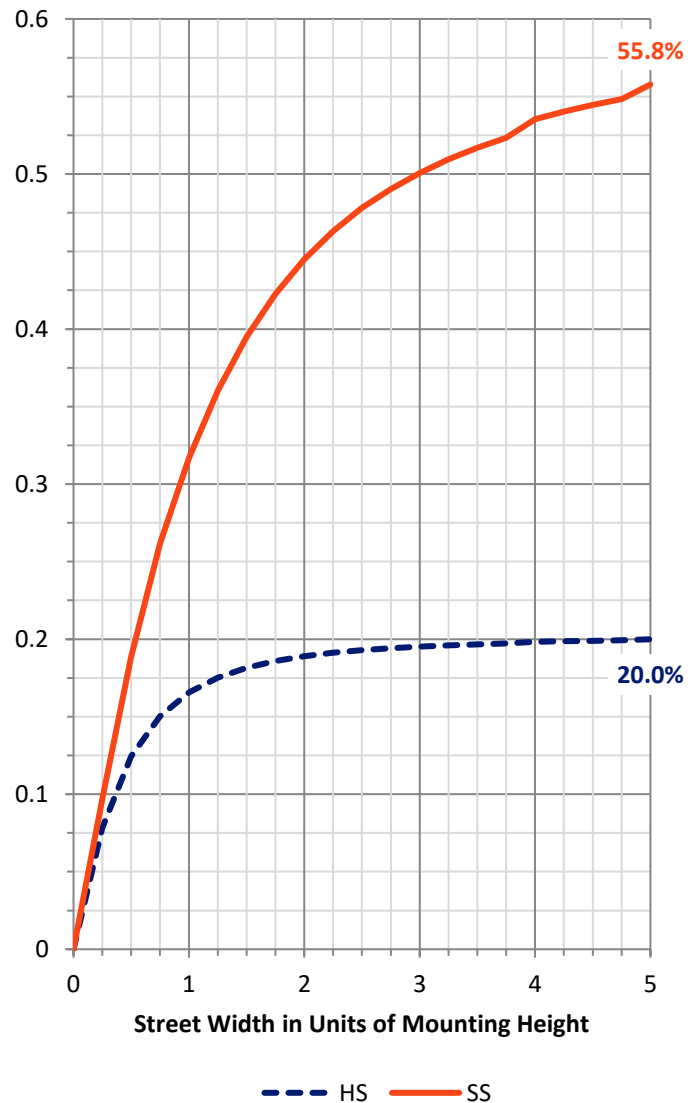
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	532.2	39.1	571.3
	% Fixture	20.4	1.5	21.9
Street Side	Lumens	1582.9	459.7	2042.6
	% Fixture	60.6	17.6	78.1
Total	Lumens	2115.1	498.8	2613.9
	% Fixture	80.9	19.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	2.5
10°-20°	179.2	6.9
20°-30°	255.4	9.8
30°-40°	291.0	11.1
40°-50°	301.1	11.5
50°-60°	299.7	11.5
60°-70°	286.2	10.9
70°-80°	247.1	9.5
80°-90°	191.0	7.3
90°-100°	150.2	5.7
100°-110°	117.6	4.5
110°-120°	85.7	3.3
120°-130°	60.7	2.3
130°-140°	41.4	1.6
140°-150°	25.9	1.0
150°-160°	13.1	0.5
160°-170°	4.1	0.2
170°-180°	0.2	0.0
0°-90°	2115.1	80.9
0°-180°	2613.9	100.0



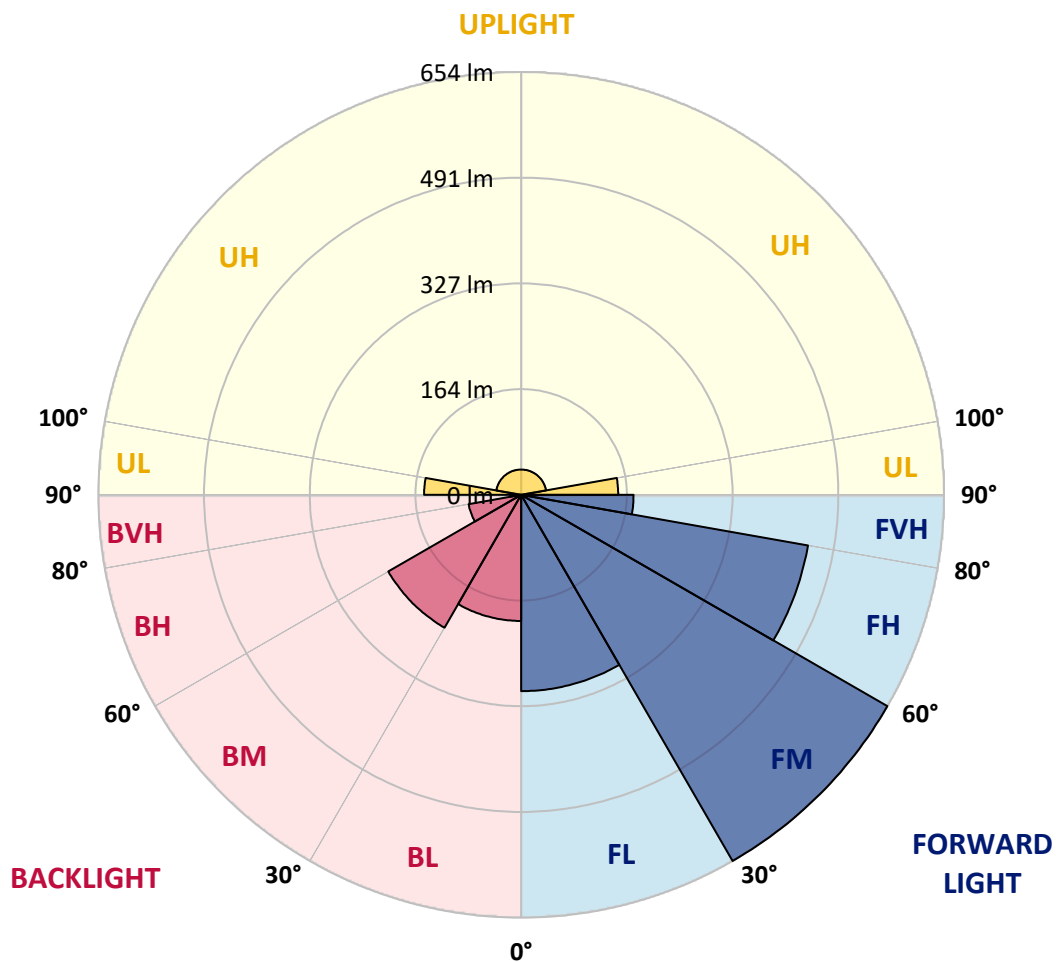
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	303.8	11.6			
FM	(30°-60°)	654.4	25.0			
FH	(60°-80°)	450.7	17.2			G0/660
FVH	(80°-90°)	173.9	6.7			G2/225
BL	(0°-30°)	195.2	7.5	B1/500		
BM	(30°-60°)	237.4	9.1	B1/1000		
BH	(60°-80°)	82.6	3.2	B0/110		G0/110
BVH	(80°-90°)	17.1	0.7			G1/100
UL	(90°-100°)	150.2	5.7		U3/500	
UH	(100°-180°)	39.1	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°	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7
2.5°	707.2	705.5	703.8	703.8	702.2	698.8	697.1	693.8	690.4	685.4	683.7
5°	732.3	730.6	729.0	727.3	723.9	717.2	712.2	705.5	697.1	688.7	683.7
7.5°	754.1	752.4	750.7	745.7	740.7	730.6	722.3	712.2	700.5	687.1	678.7
10°	767.5	765.8	764.2	759.1	750.7	739.0	727.3	712.2	697.1	680.4	670.3
12.5°	784.3	782.6	779.2	772.5	762.5	747.4	732.3	713.9	695.4	673.7	660.3
15°	796.0	796.0	792.6	784.3	772.5	755.8	737.3	715.6	692.1	667.0	651.9
17.5°	801.0	799.3	796.0	789.3	775.9	759.1	737.3	710.5	685.4	655.2	638.5
20°	796.0	796.0	792.6	784.3	772.5	754.1	730.6	702.2	672.0	636.8	620.0
22.5°	785.9	785.9	782.6	775.9	764.2	745.7	720.6	690.4	655.2	618.4	599.9
25°	774.2	774.2	770.9	764.2	754.1	735.7	708.9	677.0	640.1	599.9	578.1
27.5°	762.5	760.8	759.1	750.7	742.4	722.3	697.1	660.3	621.7	578.1	556.4
30°	747.4	747.4	742.4	735.7	723.9	703.8	677.0	641.8	599.9	554.7	531.2
32.5°	734.0	734.0	729.0	717.2	703.8	683.7	655.2	618.4	576.5	527.9	502.7
35°	722.3	722.3	715.6	703.8	685.4	661.9	633.4	594.9	551.3	499.4	474.2
37.5°	717.2	715.6	707.2	690.4	668.6	641.8	610.0	571.4	524.5	472.6	447.4
40°	712.2	710.5	700.5	678.7	651.9	620.0	584.8	543.0	497.7	445.8	415.6
42.5°	712.2	708.9	697.1	670.3	636.8	599.9	559.7	516.1	469.2	413.9	387.1
45°	715.6	712.2	697.1	665.3	625.1	579.8	534.6	489.3	442.4	385.4	360.3
47.5°	722.3	718.9	698.8	661.9	613.3	559.7	511.1	462.5	408.9	358.6	333.5
50°	732.3	729.0	705.5	660.3	603.3	543.0	486.0	434.0	382.1	331.8	306.7
52.5°	744.0	740.7	713.9	661.9	596.6	527.9	464.2	405.5	356.9	306.7	281.5
55°	755.8	754.1	723.9	665.3	589.9	512.8	440.7	382.1	331.8	279.9	258.1
57.5°	770.9	765.8	732.3	668.6	584.8	499.4	418.9	358.6	308.3	258.1	234.6
60°	779.2	775.9	739.0	670.3	579.8	486.0	398.8	336.8	284.9	234.6	214.5
62.5°	784.3	780.9	742.4	668.6	571.4	470.9	382.1	316.7	263.1	214.5	194.4
65°	784.3	779.2	740.7	663.6	563.1	457.5	365.3	296.6	243.0	196.1	176.0
67.5°	775.9	770.9	730.6	655.2	551.3	439.1	346.9	278.2	222.9	176.0	157.5
70°	759.1	754.1	715.6	640.1	534.6	422.3	330.1	261.4	206.1	159.2	140.8
72.5°	737.3	732.3	693.8	620.0	516.1	403.9	311.7	243.0	187.7	142.4	125.7
75°	707.2	703.8	667.0	596.6	496.0	385.4	296.6	226.2	170.9	127.4	110.6
77.5°	673.7	670.3	635.1	568.1	472.6	365.3	278.2	211.1	155.8	112.3	95.5
80°	640.1	635.1	603.3	539.6	444.1	345.2	261.4	196.1	140.8	97.2	83.8
82.5°	603.3	598.3	568.1	507.8	417.3	325.1	244.7	181.0	127.4	85.5	70.4
85°	566.4	563.1	534.6	477.6	392.1	305.0	229.6	167.6	115.6	73.7	60.3
87.5°	532.9	529.5	502.7	447.4	368.7	288.2	216.2	157.5	105.6	63.7	51.9
90°	502.7	501.1	474.2	418.9	348.6	274.8	206.1	149.1	100.5	58.7	48.6
92.5°	475.9	472.6	449.1	398.8	333.5	264.8	201.1	147.5	97.2	58.7	46.9
95°	450.8	447.4	420.6	377.0	318.4	253.0	194.4	142.4	95.5	57.0	46.9
97.5°	418.9	417.3	397.2	356.9	301.6	243.0	187.7	139.1	92.2	55.3	45.2
100°	393.8	390.5	372.0	336.8	286.6	231.3	181.0	134.1	90.5	53.6	43.6
102.5°	367.0	365.3	350.2	315.0	269.8	219.5	172.6	129.0	87.1	53.6	43.6
105°	341.9	338.5	325.1	294.9	253.0	207.8	164.2	124.0	83.8	51.9	41.9
107.5°	315.0	313.4	300.0	273.2	238.0	197.7	157.5	119.0	82.1	50.3	40.2
110°	289.9	288.2	278.2	253.0	221.2	184.3	149.1	112.3	78.8	46.9	38.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	268.1	266.4	256.4	236.3	207.8	174.3	142.4	107.2	75.4	45.2	36.9
115°	248.0	246.3	238.0	219.5	194.4	164.2	134.1	103.9	72.1	43.6	35.2
117.5°	229.6	227.9	221.2	204.4	182.7	155.8	127.4	98.9	68.7	41.9	33.5
120°	212.8	211.1	204.4	191.0	170.9	147.5	122.3	93.8	65.4	40.2	31.8
122.5°	197.7	196.1	191.0	177.6	160.9	139.1	115.6	90.5	62.0	38.5	30.2
125°	184.3	182.7	177.6	167.6	152.5	132.4	110.6	85.5	60.3	35.2	28.5
127.5°	172.6	170.9	165.9	157.5	142.4	125.7	105.6	82.1	57.0	33.5	26.8
130°	160.9	160.9	155.8	147.5	134.1	119.0	100.5	77.1	53.6	31.8	25.1
132.5°	152.5	150.8	147.5	140.8	129.0	112.3	95.5	73.7	50.3	30.2	23.5
135°	142.4	142.4	139.1	132.4	120.7	107.2	90.5	68.7	46.9	26.8	21.8
137.5°	135.7	134.1	130.7	125.7	115.6	102.2	85.5	65.4	45.2	25.1	20.1
140°	127.4	127.4	124.0	117.3	108.9	95.5	78.8	60.3	41.9	23.5	18.4
142.5°	120.7	119.0	117.3	110.6	102.2	88.8	73.7	57.0	38.5	21.8	16.8
145°	114.0	112.3	110.6	103.9	95.5	83.8	68.7	51.9	35.2	18.4	15.1
147.5°	105.6	105.6	102.2	97.2	88.8	77.1	63.7	48.6	31.8	16.8	13.4
150°	98.9	97.2	95.5	88.8	80.4	70.4	58.7	43.6	28.5	15.1	11.7
152.5°	88.8	88.8	85.5	80.4	73.7	63.7	51.9	40.2	26.8	11.7	10.1
155°	80.4	80.4	77.1	73.7	65.4	57.0	46.9	35.2	23.5	10.1	10.1
157.5°	72.1	72.1	68.7	65.4	58.7	50.3	41.9	30.2	20.1	8.4	8.4
160°	63.7	62.0	60.3	57.0	50.3	43.6	35.2	25.1	16.8	6.7	6.7
162.5°	53.6	53.6	51.9	48.6	43.6	36.9	28.5	20.1	13.4	5.0	5.0
165°	45.2	43.6	41.9	38.5	33.5	26.8	20.1	15.1	10.1	5.0	3.4
167.5°	33.5	33.5	31.8	28.5	21.8	16.8	15.1	10.1	6.7	3.4	3.4
170°	18.4	16.8	13.4	13.4	13.4	10.1	8.4	6.7	3.4	1.7	1.7
172.5°	0.0	0.0	1.7	3.4	3.4	5.0	3.4	3.4	1.7	1.7	1.7
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°	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7
2.5°	680.4	673.7	668.6	665.3	658.6	656.9	651.9	651.9	650.2	650.2
5°	678.7	668.6	658.6	650.2	641.8	635.1	628.4	626.7	623.4	623.4
7.5°	672.0	658.6	645.2	631.8	616.7	606.6	596.6	591.5	586.5	588.2
10°	660.3	643.5	625.1	605.0	586.5	569.8	556.4	546.3	541.3	543.0
12.5°	650.2	628.4	603.3	579.8	553.0	532.9	514.5	502.7	496.0	496.0
15°	638.5	613.3	581.5	553.0	519.5	492.7	470.9	459.2	452.5	452.5
17.5°	623.4	593.2	556.4	521.2	482.6	454.1	424.0	410.6	402.2	402.2
20°	603.3	568.1	527.9	484.3	442.4	408.9	382.1	367.0	358.6	358.6
22.5°	581.5	543.0	496.0	450.8	403.9	368.7	345.2	328.5	320.1	316.7
25°	559.7	517.8	467.5	413.9	370.3	336.8	311.7	294.9	286.6	284.9
27.5°	534.6	491.0	435.7	383.8	338.5	305.0	281.5	266.4	258.1	256.4
30°	509.4	462.5	403.9	351.9	308.3	276.5	253.0	239.6	232.9	231.3
32.5°	480.9	430.7	373.7	323.4	279.9	249.7	229.6	217.9	211.1	209.5
35°	454.1	400.5	345.2	294.9	256.4	227.9	211.1	197.7	192.7	192.7
37.5°	422.3	373.7	318.4	271.5	234.6	209.5	192.7	181.0	177.6	176.0
40°	393.8	346.9	293.3	249.7	214.5	192.7	177.6	167.6	162.6	162.6
42.5°	367.0	320.1	269.8	227.9	197.7	176.0	164.2	154.2	150.8	149.1
45°	340.2	294.9	248.0	209.5	181.0	162.6	150.8	142.4	139.1	137.4
47.5°	313.4	271.5	227.9	192.7	167.6	149.1	139.1	132.4	127.4	127.4
50°	288.2	249.7	209.5	176.0	152.5	139.1	129.0	122.3	117.3	117.3
52.5°	264.8	227.9	191.0	162.6	140.8	127.4	119.0	112.3	108.9	107.2
55°	243.0	207.8	174.3	149.1	129.0	117.3	108.9	102.2	98.9	98.9
57.5°	221.2	189.4	159.2	135.7	119.0	107.2	100.5	93.8	90.5	88.8
60°	201.1	172.6	145.8	124.0	108.9	98.9	90.5	85.5	82.1	80.4
62.5°	182.7	157.5	132.4	112.3	98.9	88.8	82.1	77.1	73.7	72.1
65°	164.2	142.4	119.0	102.2	88.8	80.4	73.7	68.7	65.4	63.7
67.5°	147.5	127.4	108.9	92.2	80.4	72.1	65.4	60.3	57.0	55.3
70°	132.4	114.0	97.2	82.1	72.1	63.7	58.7	51.9	48.6	48.6
72.5°	117.3	102.2	85.5	72.1	62.0	55.3	50.3	45.2	41.9	40.2
75°	103.9	88.8	75.4	63.7	55.3	48.6	41.9	36.9	35.2	33.5
77.5°	90.5	77.1	65.4	55.3	46.9	40.2	35.2	30.2	28.5	26.8
80°	77.1	67.0	57.0	46.9	40.2	33.5	28.5	25.1	21.8	21.8
82.5°	65.4	57.0	48.6	40.2	33.5	28.5	23.5	18.4	16.8	15.1
85°	57.0	48.6	40.2	33.5	28.5	23.5	18.4	15.1	11.7	11.7
87.5°	48.6	41.9	35.2	30.2	23.5	16.8	13.4	8.4	6.7	5.0
90°	45.2	38.5	31.8	23.5	18.4	11.7	8.4	3.4	1.7	1.7
92.5°	43.6	36.9	30.2	23.5	16.8	11.7	6.7	3.4	0.0	0.0
95°	43.6	36.9	30.2	23.5	16.8	11.7	6.7	3.4	0.0	0.0
97.5°	41.9	36.9	30.2	23.5	16.8	11.7	6.7	3.4	0.0	0.0
100°	41.9	35.2	28.5	21.8	16.8	10.1	6.7	3.4	0.0	0.0
102.5°	40.2	33.5	28.5	21.8	15.1	10.1	6.7	3.4	0.0	0.0
105°	38.5	33.5	26.8	21.8	15.1	10.1	6.7	3.4	0.0	0.0
107.5°	36.9	31.8	26.8	20.1	15.1	10.1	6.7	3.4	0.0	0.0
110°	35.2	30.2	25.1	20.1	13.4	8.4	5.0	1.7	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	33.5	30.2	25.1	18.4	13.4	8.4	5.0	1.7	0.0	0.0
115°	33.5	28.5	23.5	18.4	13.4	8.4	5.0	1.7	0.0	0.0
117.5°	31.8	26.8	21.8	18.4	13.4	8.4	5.0	1.7	0.0	0.0
120°	30.2	25.1	21.8	16.8	11.7	8.4	5.0	1.7	0.0	0.0
122.5°	28.5	25.1	20.1	16.8	11.7	6.7	3.4	1.7	0.0	0.0
125°	26.8	23.5	20.1	15.1	11.7	6.7	3.4	1.7	0.0	0.0
127.5°	25.1	21.8	18.4	15.1	10.1	6.7	3.4	1.7	0.0	0.0
130°	23.5	20.1	16.8	13.4	10.1	5.0	3.4	0.0	0.0	0.0
132.5°	21.8	20.1	16.8	13.4	8.4	5.0	3.4	0.0	0.0	0.0
135°	20.1	18.4	15.1	11.7	8.4	5.0	1.7	0.0	0.0	0.0
137.5°	18.4	16.8	13.4	11.7	8.4	5.0	1.7	0.0	0.0	0.0
140°	16.8	15.1	13.4	10.1	6.7	3.4	1.7	0.0	0.0	0.0
142.5°	16.8	13.4	11.7	10.1	6.7	3.4	1.7	0.0	0.0	0.0
145°	15.1	13.4	11.7	8.4	6.7	3.4	1.7	0.0	0.0	0.0
147.5°	13.4	11.7	10.1	8.4	5.0	3.4	1.7	0.0	0.0	0.0
150°	11.7	10.1	8.4	6.7	5.0	1.7	1.7	0.0	0.0	0.0
152.5°	10.1	8.4	8.4	6.7	3.4	1.7	1.7	0.0	0.0	0.0
155°	8.4	8.4	6.7	5.0	3.4	1.7	0.0	0.0	0.0	0.0
157.5°	8.4	6.7	5.0	5.0	3.4	1.7	0.0	0.0	0.0	0.0
160°	6.7	5.0	5.0	3.4	1.7	1.7	0.0	0.0	0.0	0.0
162.5°	5.0	5.0	3.4	3.4	1.7	1.7	0.0	0.0	0.0	0.0
165°	3.4	3.4	3.4	1.7	1.7	1.7	0.0	0.0	0.0	0.0
167.5°	3.4	3.4	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0
170°	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0
172.5°	1.7	1.7	1.7	1.7	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)