

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: P289639

Luminaire Tested: **AXCS1ARL-C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289639
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-C
Description: 1ARL AXCENT SMALL LED WALLPACK WITH 5000K CCT AND 70 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1915 lumens
Efficiency: N/A
Efficacy: 141.9 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 - G2

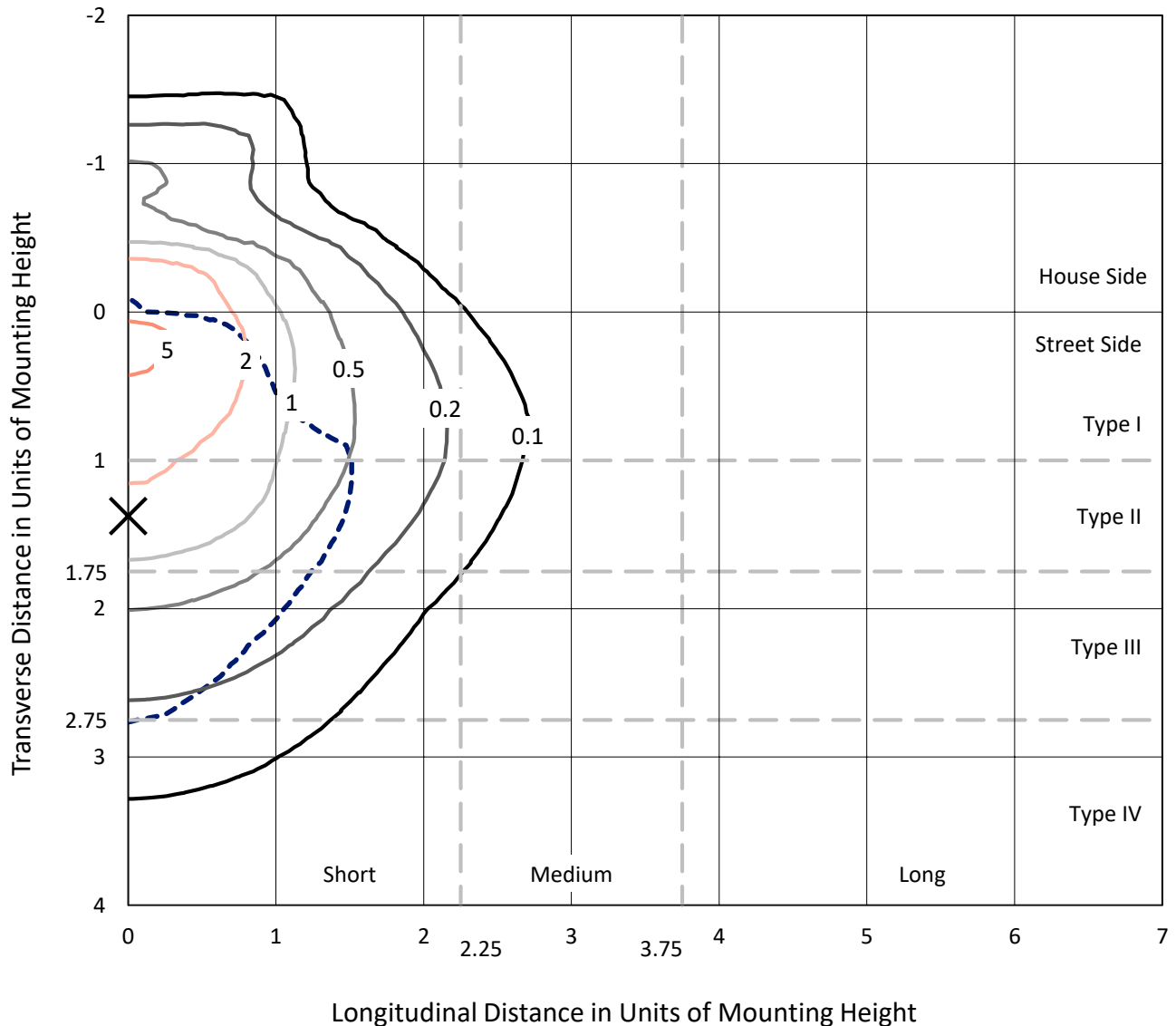
Input Watts (W): 13.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

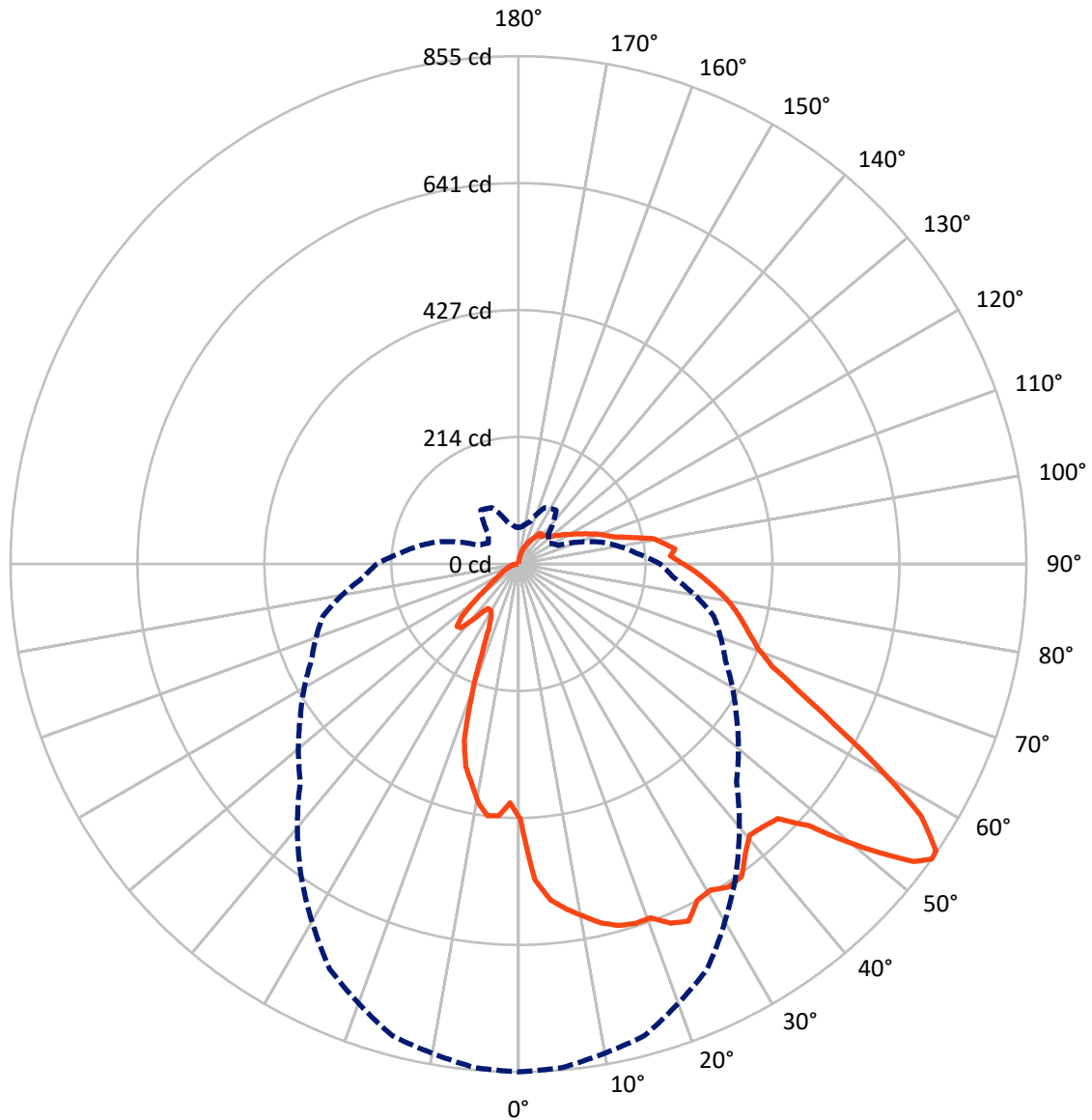
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 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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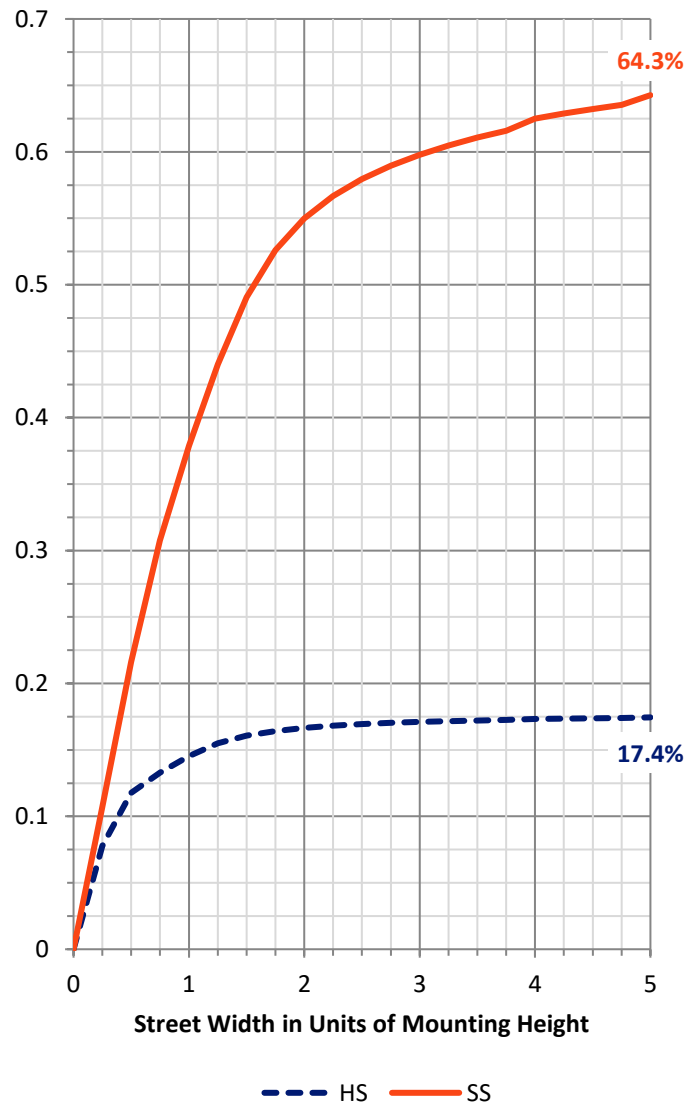
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	341.2	22.5	363.7
	% Fixture	17.8	1.2	19.0
Street Side	Lumens	1302.9	248.3	1551.2
	% Fixture	68.0	13.0	81.0
Total	Lumens	1644.2	270.8	1915.0
	% Fixture	85.9	14.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	2.4
10°-20°	135.2	7.1
20°-30°	195.0	10.2
30°-40°	228.8	11.9
40°-50°	251.7	13.1
50°-60°	285.0	14.9
60°-70°	225.4	11.8
70°-80°	160.0	8.4
80°-90°	117.6	6.1
90°-100°	89.5	4.7
100°-110°	63.4	3.3
110°-120°	44.1	2.3
120°-130°	30.2	1.6
130°-140°	21.0	1.1
140°-150°	13.7	0.7
150°-160°	6.7	0.4
160°-170°	2.1	0.1
170°-180°	0.1	0.0
0°-90°	1644.2	85.9
0°-180°	1915.0	100.0



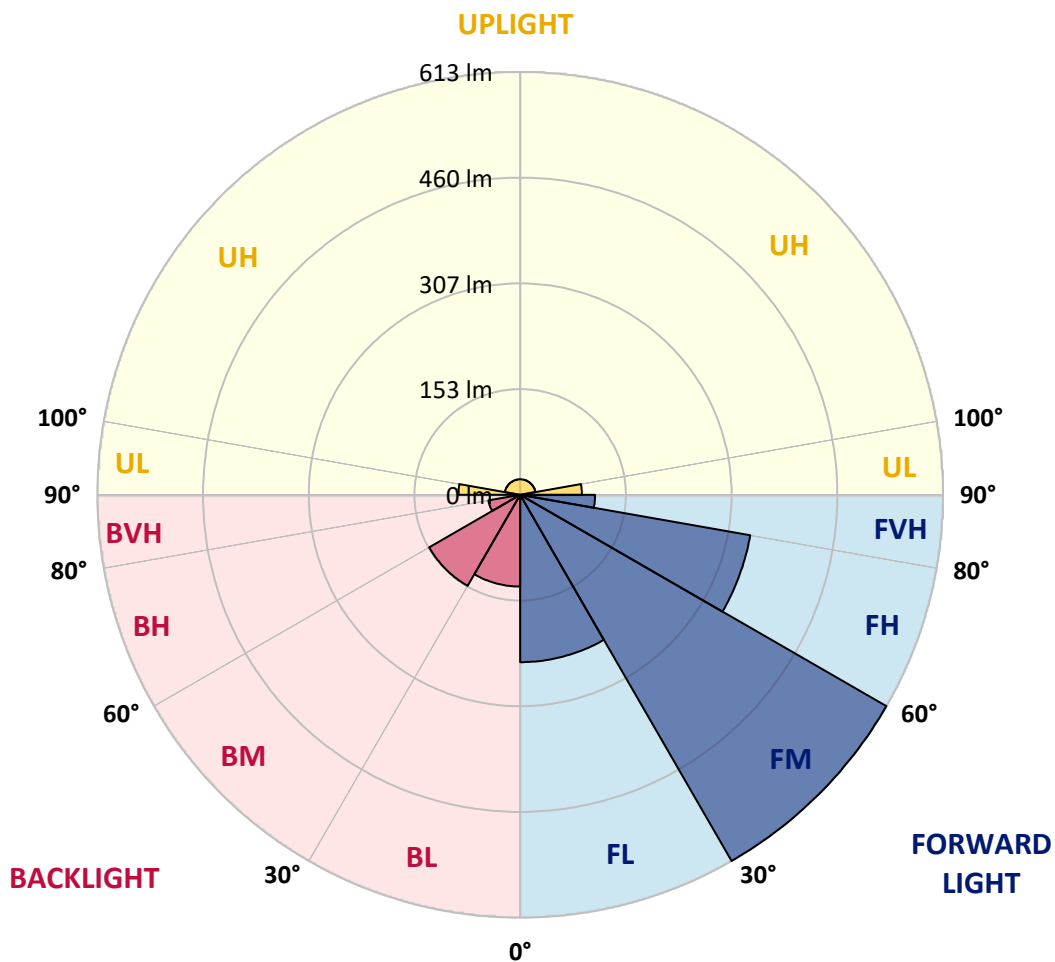
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	242.7	12.7			
FM	(30°-60°)	613.0	32.0			
FH	(60°-80°)	338.7	17.7			G0/660
FVH	(80°-90°)	108.6	5.7			G2/225
BL	(0°-30°)	133.0	6.9	B1/500		
BM	(30°-60°)	152.4	8.0	B0/220		
BH	(60°-80°)	46.8	2.4	B0/110		G0/110
BVH	(80°-90°)	9.0	0.5			G0/10
UL	(90°-100°)	89.5	4.7		U3/500	
UH	(100°-180°)	22.5	1.2		U2/50	

BUG Rating: B1-U3-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	429.5	429.5	429.5	429.5	429.5	429.5	429.5	429.5	429.5	429.5	429.5
2.5°	532.4	530.3	528.2	525.4	516.2	507.8	492.2	478.1	460.5	437.9	428.8
5°	568.4	565.6	564.9	562.8	557.8	550.8	539.5	519.7	488.0	445.7	428.1
7.5°	586.7	585.3	583.2	581.1	573.3	567.7	559.2	542.3	510.6	453.4	426.7
10°	603.0	601.5	598.0	593.8	586.7	577.6	566.3	552.2	526.1	461.9	425.2
12.5°	619.9	619.2	615.6	607.9	598.0	586.0	572.6	554.3	532.4	467.6	423.1
15°	631.2	630.5	627.6	622.0	611.4	595.9	577.6	557.1	531.7	473.9	421.7
17.5°	636.1	635.4	633.3	629.8	619.2	603.7	582.5	557.1	529.6	476.7	417.5
20°	635.4	634.7	631.2	627.6	620.6	608.6	586.7	555.7	524.7	477.4	412.5
22.5°	656.6	655.8	645.3	628.3	617.1	606.5	588.1	556.4	517.6	475.3	409.0
25°	665.7	665.0	664.3	650.9	619.2	599.4	585.3	554.3	510.6	468.3	404.1
27.5°	641.0	641.0	643.9	648.8	636.1	595.2	577.6	550.8	502.8	459.1	397.7
30°	636.8	636.8	631.2	624.8	630.5	602.2	566.3	543.7	493.6	445.0	388.6
32.5°	648.1	648.1	639.6	622.7	608.6	603.0	557.1	532.4	483.1	428.8	378.0
35°	646.7	646.0	643.2	629.0	602.2	583.2	552.2	514.8	469.7	407.6	364.6
37.5°	619.9	618.5	619.9	621.3	603.0	568.4	540.9	497.2	452.7	387.2	348.4
40°	599.4	598.0	593.1	591.7	591.7	561.3	521.1	479.5	434.4	367.4	332.2
42.5°	604.4	603.7	591.0	574.0	566.3	548.7	500.0	461.2	412.5	345.6	322.3
45°	611.4	612.8	603.7	581.1	549.4	525.4	478.8	436.5	396.3	332.2	300.4
47.5°	658.0	662.2	635.4	600.1	554.3	506.3	458.4	419.6	382.9	311.0	284.9
50°	749.6	752.5	708.7	648.1	576.9	502.1	443.6	409.7	356.8	298.3	262.3
52.5°	832.1	831.4	796.9	718.6	614.2	509.2	443.6	391.4	352.6	278.6	245.4
54°	854.7	850.5	821.6	751.8	638.2	519.0	447.8	384.3	340.6	262.3	238.4
55°	852.6	847.7	823.0	762.3	648.8	526.1	447.8	383.6	322.3	251.1	226.4
57.5°	798.3	795.5	775.0	737.6	650.2	529.6	447.8	378.7	314.5	241.2	206.6
60°	697.5	690.4	674.9	653.0	600.8	504.2	456.3	379.4	307.5	227.1	196.8
62.5°	598.0	595.2	574.7	558.5	516.9	460.5	411.1	365.3	301.8	215.8	181.9
65°	520.4	510.6	493.6	467.6	427.4	395.6	370.9	358.2	287.7	198.2	165.7
67.5°	460.5	458.4	438.6	405.5	361.8	337.8	344.8	334.3	279.3	191.1	149.5
70°	428.1	425.2	404.8	366.0	316.6	285.6	290.5	285.6	268.0	182.6	134.7
72.5°	407.6	404.8	382.2	339.2	288.4	244.0	257.4	272.2	258.8	170.7	117.8
75°	390.0	386.5	362.5	319.5	267.3	222.8	227.1	248.2	237.7	165.7	103.0
77.5°	373.1	368.8	344.8	302.5	253.9	208.0	199.6	196.8	208.0	150.9	88.2
80°	354.7	351.9	328.6	287.7	243.3	193.9	190.4	196.0	177.0	124.1	71.9
82.5°	333.6	331.4	311.0	272.9	231.3	182.6	177.0	169.3	161.5	98.7	47.2
85°	313.8	312.4	293.4	258.1	219.3	173.5	166.4	158.7	144.6	79.7	30.3
87.5°	294.1	291.3	272.9	243.3	207.3	163.6	150.9	144.6	122.7	52.2	24.7
90°	273.6	272.2	256.7	229.2	196.8	157.3	148.1	131.2	108.6	43.0	20.5
92.5°	256.0	254.6	240.5	215.8	188.3	149.5	138.2	118.5	90.3	33.9	19.0
95°	264.5	263.0	248.2	221.4	189.0	150.2	128.3	109.3	78.3	29.6	19.0
97.5°	247.5	246.1	234.1	211.6	182.6	146.0	119.2	95.9	63.5	27.5	20.5
100°	232.7	229.2	218.6	199.6	173.5	134.7	109.3	81.8	55.0	28.2	21.9
102.5°	196.8	195.3	188.3	172.1	147.4	118.5	98.0	74.0	51.5	29.6	23.3
105°	170.0	169.3	164.3	153.7	132.6	107.2	88.2	69.1	48.7	30.3	24.7
107.5°	155.1	154.4	148.8	138.9	122.0	101.6	83.9	66.3	45.8	31.7	25.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	143.2	142.5	137.5	127.6	111.4	96.6	81.1	62.1	43.7	31.7	26.1
112.5°	129.8	129.1	125.5	117.8	103.7	91.0	76.2	57.1	42.3	31.7	25.4
115°	117.8	117.1	113.5	107.2	95.9	84.6	70.5	52.9	41.6	31.0	24.7
117.5°	107.2	106.5	103.7	98.0	88.2	78.3	64.9	50.1	40.9	29.6	24.0
120°	97.3	96.6	94.5	88.9	81.1	73.3	60.6	48.0	39.5	28.2	22.6
122.5°	91.0	90.3	87.4	83.2	75.5	68.4	57.1	48.0	38.1	26.8	21.2
125°	82.5	81.8	80.4	76.2	71.2	64.9	55.0	45.8	36.0	24.7	19.7
127.5°	77.6	77.6	75.5	71.2	68.4	61.4	52.9	43.7	33.9	22.6	17.6
130°	70.5	69.8	69.1	69.1	64.9	57.8	51.5	41.6	31.7	20.5	16.2
132.5°	67.7	68.4	68.4	66.3	61.4	55.7	48.7	38.8	29.6	19.0	14.8
135°	67.7	67.7	65.6	63.5	58.5	56.4	45.8	36.0	28.2	16.9	14.1
137.5°	64.2	63.5	62.1	59.2	60.6	52.9	43.0	33.9	26.1	15.5	12.7
140°	59.2	59.2	58.5	62.8	58.5	48.0	40.2	31.7	24.0	14.1	11.3
142.5°	64.2	65.6	67.7	60.6	51.5	45.1	37.4	30.3	21.9	12.0	10.6
145°	61.4	61.4	58.5	52.2	48.7	41.6	35.3	28.2	20.5	10.6	9.2
147.5°	52.9	52.9	51.5	49.4	43.7	39.5	32.4	26.1	18.3	9.2	8.5
150°	49.4	49.4	46.5	43.7	41.6	35.3	29.6	23.3	16.2	7.8	7.8
152.5°	43.0	43.0	43.0	41.6	36.7	31.7	27.5	20.5	14.1	7.1	7.1
155°	40.9	40.9	38.8	35.3	31.7	28.2	23.3	17.6	12.0	6.3	5.6
157.5°	34.6	33.9	33.1	31.0	28.9	25.4	20.5	15.5	10.6	5.6	4.9
160°	30.3	30.3	28.9	27.5	25.4	21.2	16.9	12.7	8.5	4.2	4.2
162.5°	25.4	25.4	24.7	23.3	20.5	17.6	14.1	10.6	7.1	3.5	3.5
165°	21.2	20.5	19.7	18.3	16.2	14.1	10.6	8.5	4.9	2.8	2.8
167.5°	15.5	15.5	14.8	14.1	12.7	9.2	7.8	5.6	2.8	2.8	2.1
170°	11.3	11.3	10.6	8.5	7.1	6.3	4.9	3.5	2.1	2.1	2.1
172.5°	4.2	4.2	4.2	4.2	3.5	2.8	2.8	1.4	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°	429.5	429.5	429.5	429.5	429.5	429.5	429.5	429.5	429.5	429.5
2.5°	421.7	409.7	402.0	397.7	397.0	397.7	399.1	401.3	401.3	402.0
5°	413.3	398.4	398.4	404.1	412.5	418.2	422.4	424.5	425.9	425.2
7.5°	406.2	395.6	406.9	419.6	426.7	428.8	428.1	428.1	426.7	426.7
10°	399.1	395.6	414.7	425.2	424.5	418.9	414.0	408.3	405.5	407.6
12.5°	392.1	397.0	416.8	419.6	411.8	397.0	387.9	382.2	378.7	377.3
15°	386.5	398.4	416.1	409.7	388.6	373.8	363.9	357.5	352.6	352.6
17.5°	380.1	398.4	406.9	388.6	367.4	351.2	337.8	320.9	314.5	311.0
20°	373.1	394.2	395.6	368.1	346.3	321.6	287.7	256.0	241.2	236.2
22.5°	366.7	387.9	377.3	348.4	320.2	271.5	217.9	181.9	163.6	164.3
25°	359.0	378.0	356.1	327.2	277.9	203.1	153.0	128.3	121.3	119.9
27.5°	350.5	366.0	338.5	299.7	224.3	148.8	119.2	107.2	103.0	101.6
30°	340.6	351.9	318.0	262.3	166.4	117.1	102.3	95.9	93.8	93.1
32.5°	328.6	334.3	295.5	217.2	131.9	101.6	93.1	90.3	89.6	90.3
35°	315.9	313.1	270.1	170.7	107.9	91.7	88.9	88.9	91.0	91.0
37.5°	300.4	290.5	239.1	134.7	95.2	86.7	87.4	93.8	100.8	101.6
40°	285.6	268.7	203.8	110.0	86.0	83.2	91.0	108.6	122.0	123.4
42.5°	272.9	248.2	167.1	94.5	80.4	83.2	103.0	129.1	143.2	144.6
45°	262.3	229.2	137.5	84.6	76.2	85.3	119.2	143.9	147.4	147.4
47.5°	240.5	203.1	112.1	75.5	73.3	92.4	131.9	139.6	131.9	131.2
50°	232.7	181.9	94.5	68.4	71.2	101.6	131.2	119.2	101.6	100.1
52.5°	203.8	155.1	80.4	64.2	71.2	109.3	118.5	88.2	73.3	72.6
54°	201.0	142.5	74.0	61.4	71.2	110.7	104.4	73.3	62.8	61.4
55°	200.3	134.7	69.8	59.9	71.9	110.0	95.2	66.3	55.7	55.7
57.5°	171.4	112.8	62.1	56.4	73.3	101.6	73.3	52.9	45.8	44.4
60°	157.3	96.6	55.7	52.9	74.0	88.9	56.4	43.0	37.4	36.7
62.5°	142.5	81.1	50.8	50.1	72.6	72.6	47.2	36.0	31.7	31.7
65°	122.7	68.4	45.8	47.2	69.8	57.8	38.8	31.0	27.5	27.5
67.5°	112.1	57.8	42.3	44.4	64.2	46.5	33.1	26.1	23.3	23.3
70°	95.9	49.4	38.8	41.6	57.1	39.5	27.5	22.6	20.5	19.7
72.5°	84.6	42.3	36.0	38.8	49.4	32.4	24.0	19.7	16.9	16.9
75°	67.0	37.4	33.1	36.0	42.3	26.1	19.7	16.2	14.1	14.1
77.5°	47.2	31.7	30.3	32.4	34.6	21.9	16.9	14.1	12.0	12.0
80°	35.3	27.5	28.2	29.6	28.9	18.3	14.1	12.0	9.9	9.9
82.5°	26.8	24.0	25.4	26.1	24.0	15.5	12.0	9.9	7.8	7.8
85°	20.5	21.2	23.3	22.6	18.3	13.4	10.6	7.8	5.6	5.6
87.5°	17.6	19.0	21.2	19.7	14.1	9.9	7.1	4.9	3.5	2.8
90°	16.2	17.6	19.0	16.2	11.3	7.8	4.2	2.8	1.4	0.7
92.5°	16.2	16.9	17.6	14.8	9.9	6.3	4.2	2.1	0.7	0.7
95°	16.9	16.9	17.6	14.1	9.2	5.6	3.5	1.4	0.7	0.0
97.5°	18.3	17.6	16.9	13.4	9.2	5.6	2.8	1.4	0.7	0.0
100°	19.7	17.6	16.9	13.4	9.2	5.6	2.8	1.4	0.7	0.0
102.5°	20.5	18.3	16.9	13.4	9.2	5.6	2.8	1.4	0.7	0.0
105°	21.2	18.3	16.2	12.7	8.5	5.6	2.8	1.4	0.7	0.0
107.5°	21.9	17.6	16.2	12.7	8.5	4.9	2.8	1.4	0.7	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	21.9	17.6	15.5	12.0	8.5	4.9	2.8	1.4	0.7	0.0
112.5°	21.9	16.9	14.8	12.0	8.5	4.9	2.8	1.4	0.7	0.0
115°	21.2	16.2	14.1	11.3	7.8	4.9	2.8	1.4	0.7	0.0
117.5°	20.5	15.5	13.4	10.6	7.8	4.9	2.8	1.4	0.7	0.0
120°	19.0	14.8	12.7	10.6	7.1	4.2	2.1	1.4	0.0	0.0
122.5°	18.3	14.1	12.0	9.9	7.1	4.2	2.1	1.4	0.0	0.0
125°	16.9	13.4	11.3	9.2	6.3	4.2	2.1	1.4	0.0	0.0
127.5°	15.5	12.7	10.6	8.5	6.3	3.5	2.1	1.4	0.0	0.0
130°	14.8	12.0	9.9	8.5	5.6	3.5	2.1	1.4	0.0	0.0
132.5°	13.4	11.3	9.2	7.8	5.6	3.5	2.1	1.4	0.0	0.0
135°	12.7	10.6	8.5	7.1	4.9	2.8	2.1	1.4	0.0	0.0
137.5°	11.3	9.9	8.5	6.3	4.9	2.8	1.4	0.7	0.0	0.0
140°	10.6	9.2	7.8	5.6	4.2	2.8	1.4	0.7	0.0	0.0
142.5°	9.9	8.5	7.1	5.6	3.5	2.1	1.4	0.7	0.0	0.0
145°	9.2	7.8	6.3	4.9	3.5	2.1	1.4	0.7	0.0	0.0
147.5°	7.8	7.1	5.6	4.2	2.8	2.1	1.4	0.7	0.0	0.0
150°	7.1	6.3	4.9	4.2	2.8	1.4	0.7	0.7	0.0	0.0
152.5°	6.3	5.6	4.9	3.5	2.8	1.4	0.7	0.7	0.0	0.0
155°	5.6	4.9	4.2	2.8	2.1	1.4	0.7	0.0	0.0	0.0
157.5°	4.9	4.2	3.5	2.8	2.1	1.4	0.7	0.0	0.0	0.0
160°	4.2	3.5	2.8	2.1	1.4	0.7	0.7	0.0	0.0	0.0
162.5°	3.5	2.8	2.8	2.1	1.4	0.7	0.0	0.0	0.0	0.0
165°	2.8	2.8	2.1	1.4	1.4	0.7	0.0	0.0	0.0	0.0
167.5°	2.1	2.1	2.1	1.4	0.7	0.7	0.0	0.0	0.0	0.0
170°	2.1	2.1	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0
172.5°	1.4	1.4	1.4	0.7	0.7	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)