

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: P290557

Luminaire Tested: **AXCS1ARL-W-GRF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290557
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-W-GRF
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: 1557.5 lumens
Efficiency: N/A
Efficacy: 115.4 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

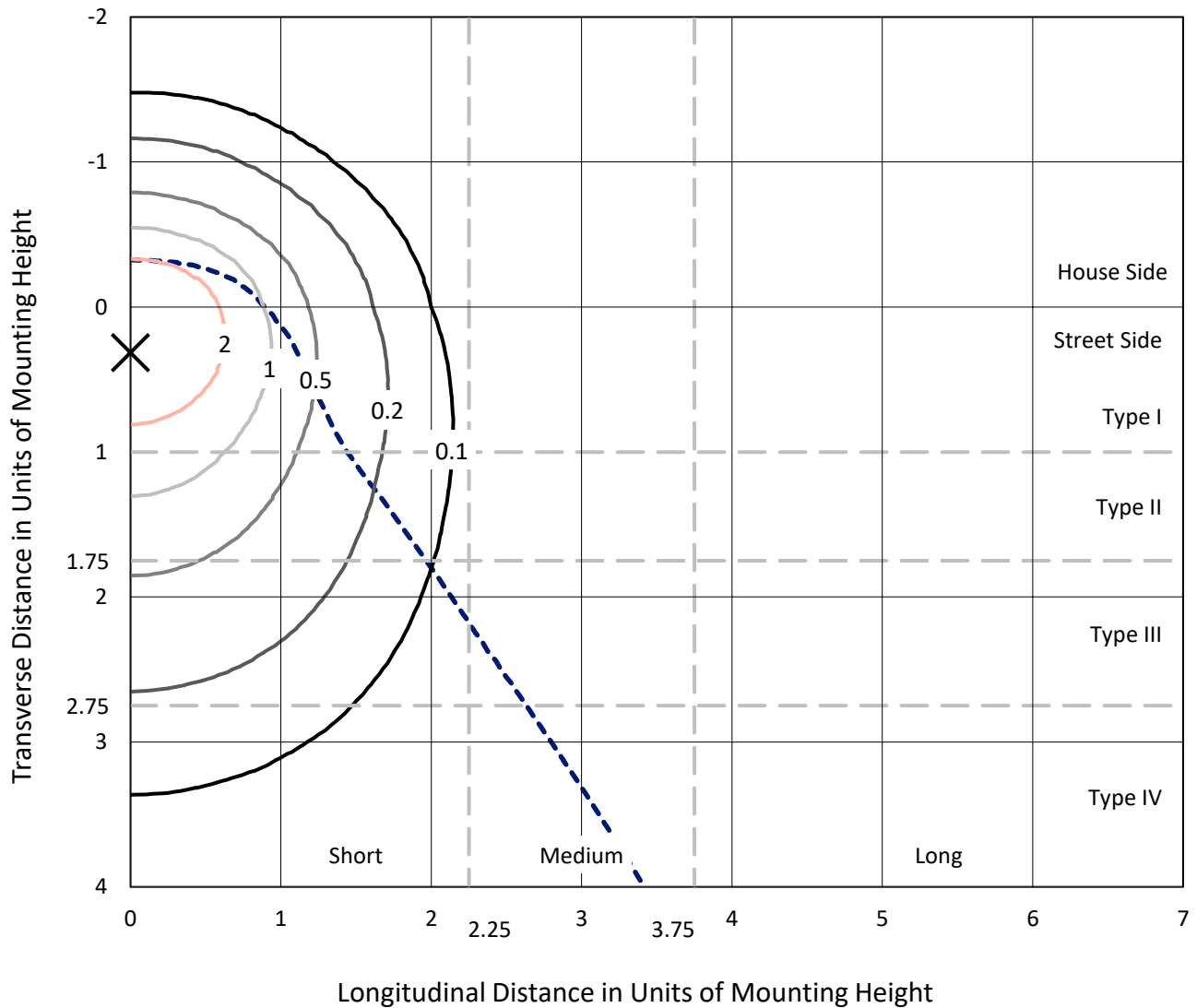
Input Watts (W): 13.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

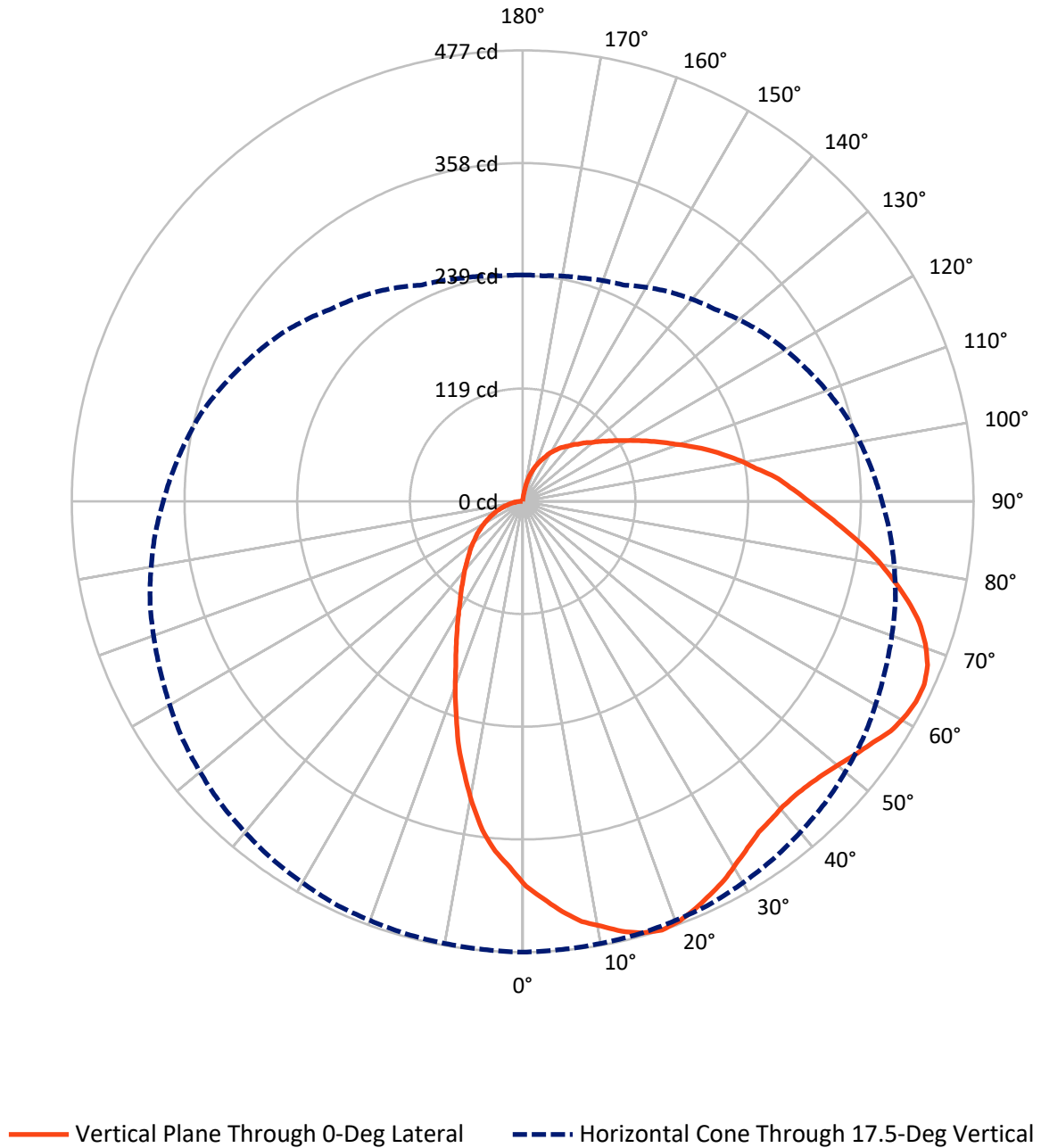
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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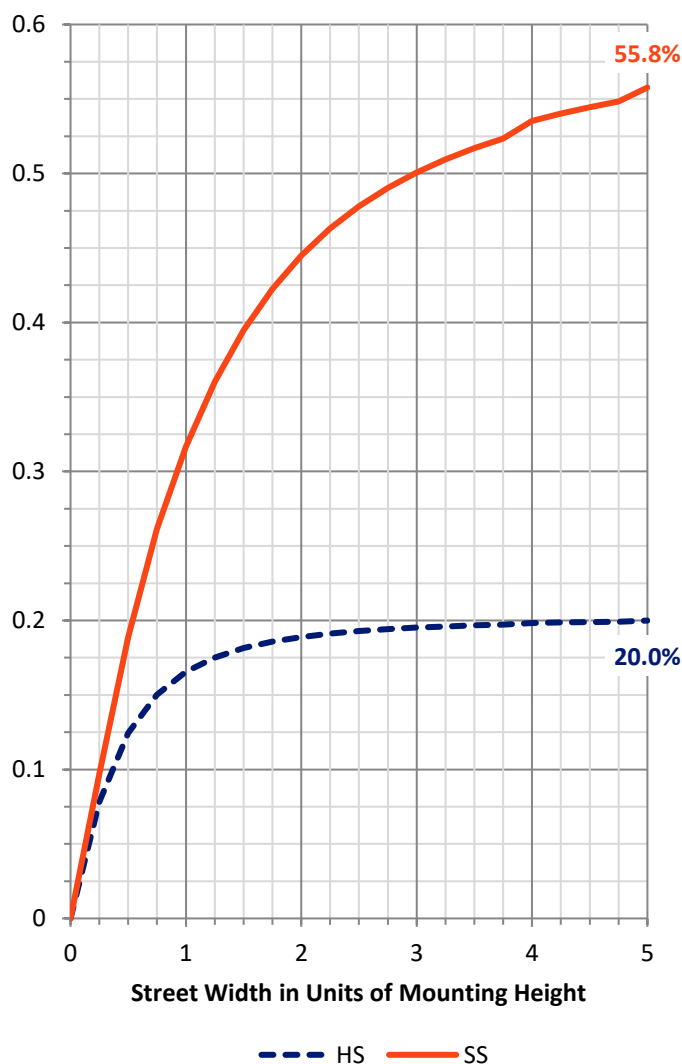
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	317.1	23.3	340.5
	% Fixture	20.4	1.5	21.9
Street Side	Lumens	943.1	273.9	1217.1
	% Fixture	60.6	17.6	78.1
Total	Lumens	1260.3	297.2	1557.5
	% Fixture	80.9	19.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.4	2.5
10°-20°	106.8	6.9
20°-30°	152.2	9.8
30°-40°	173.4	11.1
40°-50°	179.4	11.5
50°-60°	178.6	11.5
60°-70°	170.5	10.9
70°-80°	147.3	9.5
80°-90°	113.8	7.3
90°-100°	89.5	5.7
100°-110°	70.1	4.5
110°-120°	51.1	3.3
120°-130°	36.1	2.3
130°-140°	24.7	1.6
140°-150°	15.4	1.0
150°-160°	7.8	0.5
160°-170°	2.5	0.2
170°-180°	0.1	0.0
0°-90°	1260.3	80.9
0°-180°	1557.5	100.0

Coefficient of Utilization

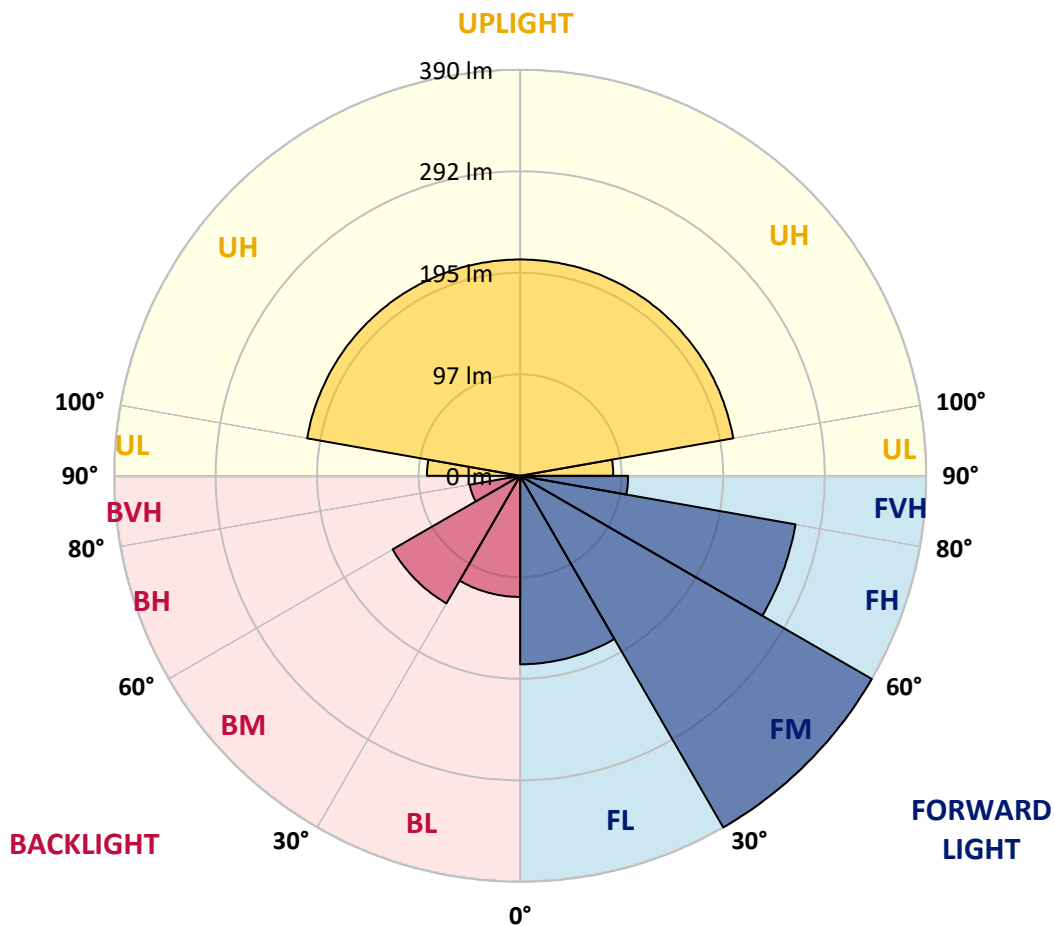


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	181.0	11.6			
FM (30°-60°)	389.9	25.0			
FH (60°-80°)	268.6	17.2			G0/660
FVH (80°-90°)	103.6	6.7			G2/225
BL (0°-30°)	116.3	7.5	B1/500		
BM (30°-60°)	141.4	9.1	B0/220		
BH (60°-80°)	49.2	3.2	B0/110		G0/110
BVH (80°-90°)	10.2	0.7			G1/100
UL (90°-100°)	89.5	5.7		U3/500	
UH (100°-180°)	207.8	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°	407.4	407.4	407.4	407.4	407.4	407.4	407.4	407.4	407.4	407.4	407.4
2.5°	421.4	420.4	419.4	419.4	418.4	416.4	415.4	413.4	411.4	408.4	407.4
5°	436.3	435.3	434.3	433.3	431.4	427.4	424.4	420.4	415.4	410.4	407.4
7.5°	449.3	448.3	447.3	444.3	441.3	435.3	430.4	424.4	417.4	409.4	404.4
10°	457.3	456.3	455.3	452.3	447.3	440.3	433.3	424.4	415.4	405.4	399.4
12.5°	467.3	466.3	464.3	460.3	454.3	445.3	436.3	425.4	414.4	401.4	393.4
15°	474.3	474.3	472.3	467.3	460.3	450.3	439.3	426.4	412.4	397.4	388.4
17.5°	477.3	476.3	474.3	470.3	462.3	452.3	439.3	423.4	408.4	390.4	380.4
20°	474.3	474.3	472.3	467.3	460.3	449.3	435.3	418.4	400.4	379.4	369.4
22.5°	468.3	468.3	466.3	462.3	455.3	444.3	429.4	411.4	390.4	368.4	357.5
25°	461.3	461.3	459.3	455.3	449.3	438.3	422.4	403.4	381.4	357.5	344.5
27.5°	454.3	453.3	452.3	447.3	442.3	430.4	415.4	393.4	370.4	344.5	331.5
30°	445.3	445.3	442.3	438.3	431.4	419.4	403.4	382.4	357.5	330.5	316.5
32.5°	437.3	437.3	434.3	427.4	419.4	407.4	390.4	368.4	343.5	314.5	299.5
35°	430.4	430.4	426.4	419.4	408.4	394.4	377.4	354.5	328.5	297.6	282.6
37.5°	427.4	426.4	421.4	411.4	398.4	382.4	363.5	340.5	312.5	281.6	266.6
40°	424.4	423.4	417.4	404.4	388.4	369.4	348.5	323.5	296.6	265.6	247.6
42.5°	424.4	422.4	415.4	399.4	379.4	357.5	333.5	307.5	279.6	246.6	230.7
45°	426.4	424.4	415.4	396.4	372.4	345.5	318.5	291.6	263.6	229.7	214.7
47.5°	430.4	428.4	416.4	394.4	365.5	333.5	304.5	275.6	243.6	213.7	198.7
50°	436.3	434.3	420.4	393.4	359.5	323.5	289.6	258.6	227.7	197.7	182.7
52.5°	443.3	441.3	425.4	394.4	355.5	314.5	276.6	241.6	212.7	182.7	167.7
55°	450.3	449.3	431.4	396.4	351.5	305.5	262.6	227.7	197.7	166.7	153.8
57.5°	459.3	456.3	436.3	398.4	348.5	297.6	249.6	213.7	183.7	153.8	139.8
60°	464.3	462.3	440.3	399.4	345.5	289.6	237.6	200.7	169.7	139.8	127.8
62.5°	467.3	465.3	442.3	398.4	340.5	280.6	227.7	188.7	156.8	127.8	115.8
65°	467.3	464.3	441.3	395.4	335.5	272.6	217.7	176.7	144.8	116.8	104.8
67.5°	462.3	459.3	435.3	390.4	328.5	261.6	206.7	165.8	132.8	104.8	93.9
70°	452.3	449.3	426.4	381.4	318.5	251.6	196.7	155.8	122.8	94.9	83.9
72.5°	439.3	436.3	413.4	369.4	307.5	240.6	185.7	144.8	111.8	84.9	74.9
75°	421.4	419.4	397.4	355.5	295.6	229.7	176.7	134.8	101.8	75.9	65.9
77.5°	401.4	399.4	378.4	338.5	281.6	217.7	165.8	125.8	92.9	66.9	56.9
80°	381.4	378.4	359.5	321.5	264.6	205.7	155.8	116.8	83.9	57.9	49.9
82.5°	359.5	356.5	338.5	302.5	248.6	193.7	145.8	107.8	75.9	50.9	41.9
85°	337.5	335.5	318.5	284.6	233.6	181.7	136.8	99.8	68.9	43.9	35.9
87.5°	317.5	315.5	299.5	266.6	219.7	171.7	128.8	93.9	62.9	37.9	31.0
90°	299.5	298.6	282.6	249.6	207.7	163.8	122.8	88.9	59.9	34.9	29.0
92.5°	283.6	281.6	267.6	237.6	198.7	157.8	119.8	87.9	57.9	34.9	28.0
95°	268.6	266.6	250.6	224.7	189.7	150.8	115.8	84.9	56.9	33.9	28.0
97.5°	249.6	248.6	236.6	212.7	179.7	144.8	111.8	82.9	54.9	33.0	27.0
100°	234.6	232.7	221.7	200.7	170.7	137.8	107.8	79.9	53.9	32.0	26.0
102.5°	218.7	217.7	208.7	187.7	160.8	130.8	102.8	76.9	51.9	32.0	26.0
105°	203.7	201.7	193.7	175.7	150.8	123.8	97.9	73.9	49.9	31.0	25.0
107.5°	187.7	186.7	178.7	162.8	141.8	117.8	93.9	70.9	48.9	30.0	24.0
110°	172.7	171.7	165.8	150.8	131.8	109.8	88.9	66.9	46.9	28.0	23.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	159.8	158.8	152.8	140.8	123.8	103.8	84.9	63.9	44.9	27.0	22.0
115°	147.8	146.8	141.8	130.8	115.8	97.9	79.9	61.9	42.9	26.0	21.0
117.5°	136.8	135.8	131.8	121.8	108.8	92.9	75.9	58.9	40.9	25.0	20.0
120°	126.8	125.8	121.8	113.8	101.8	87.9	72.9	55.9	38.9	24.0	19.0
122.5°	117.8	116.8	113.8	105.8	95.9	82.9	68.9	53.9	36.9	23.0	18.0
125°	109.8	108.8	105.8	99.8	90.9	78.9	65.9	50.9	35.9	21.0	17.0
127.5°	102.8	101.8	98.9	93.9	84.9	74.9	62.9	48.9	33.9	20.0	16.0
130°	95.9	95.9	92.9	87.9	79.9	70.9	59.9	45.9	32.0	19.0	15.0
132.5°	90.9	89.9	87.9	83.9	76.9	66.9	56.9	43.9	30.0	18.0	14.0
135°	84.9	84.9	82.9	78.9	71.9	63.9	53.9	40.9	28.0	16.0	13.0
137.5°	80.9	79.9	77.9	74.9	68.9	60.9	50.9	38.9	27.0	15.0	12.0
140°	75.9	75.9	73.9	69.9	64.9	56.9	46.9	35.9	25.0	14.0	11.0
142.5°	71.9	70.9	69.9	65.9	60.9	52.9	43.9	33.9	23.0	13.0	10.0
145°	67.9	66.9	65.9	61.9	56.9	49.9	40.9	31.0	21.0	11.0	9.0
147.5°	62.9	62.9	60.9	57.9	52.9	45.9	37.9	29.0	19.0	10.0	8.0
150°	58.9	57.9	56.9	52.9	47.9	41.9	34.9	26.0	17.0	9.0	7.0
152.5°	52.9	52.9	50.9	47.9	43.9	37.9	31.0	24.0	16.0	7.0	6.0
155°	47.9	47.9	45.9	43.9	38.9	33.9	28.0	21.0	14.0	6.0	6.0
157.5°	42.9	42.9	40.9	38.9	34.9	30.0	25.0	18.0	12.0	5.0	5.0
160°	37.9	36.9	35.9	33.9	30.0	26.0	21.0	15.0	10.0	4.0	4.0
162.5°	32.0	32.0	31.0	29.0	26.0	22.0	17.0	12.0	8.0	3.0	3.0
165°	27.0	26.0	25.0	23.0	20.0	16.0	12.0	9.0	6.0	3.0	2.0
167.5°	20.0	20.0	19.0	17.0	13.0	10.0	9.0	6.0	4.0	2.0	2.0
170°	11.0	10.0	8.0	8.0	8.0	6.0	5.0	4.0	2.0	1.0	1.0
172.5°	0.0	0.0	1.0	2.0	2.0	3.0	2.0	2.0	1.0	1.0	1.0
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°	407.4	407.4	407.4	407.4	407.4	407.4	407.4	407.4	407.4	407.4
2.5°	405.4	401.4	398.4	396.4	392.4	391.4	388.4	388.4	387.4	387.4
5°	404.4	398.4	392.4	387.4	382.4	378.4	374.4	373.4	371.4	371.4
7.5°	400.4	392.4	384.4	376.4	367.4	361.5	355.5	352.5	349.5	350.5
10°	393.4	383.4	372.4	360.5	349.5	339.5	331.5	325.5	322.5	323.5
12.5°	387.4	374.4	359.5	345.5	329.5	317.5	306.5	299.5	295.6	295.6
15°	380.4	365.5	346.5	329.5	309.5	293.6	280.6	273.6	269.6	269.6
17.5°	371.4	353.5	331.5	310.5	287.6	270.6	252.6	244.6	239.6	239.6
20°	359.5	338.5	314.5	288.6	263.6	243.6	227.7	218.7	213.7	213.7
22.5°	346.5	323.5	295.6	268.6	240.6	219.7	205.7	195.7	190.7	188.7
25°	333.5	308.5	278.6	246.6	220.7	200.7	185.7	175.7	170.7	169.7
27.5°	318.5	292.6	259.6	228.7	201.7	181.7	167.7	158.8	153.8	152.8
30°	303.5	275.6	240.6	209.7	183.7	164.8	150.8	142.8	138.8	137.8
32.5°	286.6	256.6	222.7	192.7	166.7	148.8	136.8	129.8	125.8	124.8
35°	270.6	238.6	205.7	175.7	152.8	135.8	125.8	117.8	114.8	114.8
37.5°	251.6	222.7	189.7	161.8	139.8	124.8	114.8	107.8	105.8	104.8
40°	234.6	206.7	174.7	148.8	127.8	114.8	105.8	99.8	96.9	96.9
42.5°	218.7	190.7	160.8	135.8	117.8	104.8	97.9	91.9	89.9	88.9
45°	202.7	175.7	147.8	124.8	107.8	96.9	89.9	84.9	82.9	81.9
47.5°	186.7	161.8	135.8	114.8	99.8	88.9	82.9	78.9	75.9	75.9
50°	171.7	148.8	124.8	104.8	90.9	82.9	76.9	72.9	69.9	69.9
52.5°	157.8	135.8	113.8	96.9	83.9	75.9	70.9	66.9	64.9	63.9
55°	144.8	123.8	103.8	88.9	76.9	69.9	64.9	60.9	58.9	58.9
57.5°	131.8	112.8	94.9	80.9	70.9	63.9	59.9	55.9	53.9	52.9
60°	119.8	102.8	86.9	73.9	64.9	58.9	53.9	50.9	48.9	47.9
62.5°	108.8	93.9	78.9	66.9	58.9	52.9	48.9	45.9	43.9	42.9
65°	97.9	84.9	70.9	60.9	52.9	47.9	43.9	40.9	38.9	37.9
67.5°	87.9	75.9	64.9	54.9	47.9	42.9	38.9	35.9	33.9	33.0
70°	78.9	67.9	57.9	48.9	42.9	37.9	34.9	31.0	29.0	29.0
72.5°	69.9	60.9	50.9	42.9	36.9	33.0	30.0	27.0	25.0	24.0
75°	61.9	52.9	44.9	37.9	33.0	29.0	25.0	22.0	21.0	20.0
77.5°	53.9	45.9	38.9	33.0	28.0	24.0	21.0	18.0	17.0	16.0
80°	45.9	39.9	33.9	28.0	24.0	20.0	17.0	15.0	13.0	13.0
82.5°	38.9	33.9	29.0	24.0	20.0	17.0	14.0	11.0	10.0	9.0
85°	33.9	29.0	24.0	20.0	17.0	14.0	11.0	9.0	7.0	7.0
87.5°	29.0	25.0	21.0	18.0	14.0	10.0	8.0	5.0	4.0	3.0
90°	27.0	23.0	19.0	14.0	11.0	7.0	5.0	2.0	1.0	1.0
92.5°	26.0	22.0	18.0	14.0	10.0	7.0	4.0	2.0	0.0	0.0
95°	26.0	22.0	18.0	14.0	10.0	7.0	4.0	2.0	0.0	0.0
97.5°	25.0	22.0	18.0	14.0	10.0	7.0	4.0	2.0	0.0	0.0
100°	25.0	21.0	17.0	13.0	10.0	6.0	4.0	2.0	0.0	0.0
102.5°	24.0	20.0	17.0	13.0	9.0	6.0	4.0	2.0	0.0	0.0
105°	23.0	20.0	16.0	13.0	9.0	6.0	4.0	2.0	0.0	0.0
107.5°	22.0	19.0	16.0	12.0	9.0	6.0	4.0	2.0	0.0	0.0
110°	21.0	18.0	15.0	12.0	8.0	5.0	3.0	1.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	20.0	18.0	15.0	11.0	8.0	5.0	3.0	1.0	0.0	0.0
115°	20.0	17.0	14.0	11.0	8.0	5.0	3.0	1.0	0.0	0.0
117.5°	19.0	16.0	13.0	11.0	8.0	5.0	3.0	1.0	0.0	0.0
120°	18.0	15.0	13.0	10.0	7.0	5.0	3.0	1.0	0.0	0.0
122.5°	17.0	15.0	12.0	10.0	7.0	4.0	2.0	1.0	0.0	0.0
125°	16.0	14.0	12.0	9.0	7.0	4.0	2.0	1.0	0.0	0.0
127.5°	15.0	13.0	11.0	9.0	6.0	4.0	2.0	1.0	0.0	0.0
130°	14.0	12.0	10.0	8.0	6.0	3.0	2.0	0.0	0.0	0.0
132.5°	13.0	12.0	10.0	8.0	5.0	3.0	2.0	0.0	0.0	0.0
135°	12.0	11.0	9.0	7.0	5.0	3.0	1.0	0.0	0.0	0.0
137.5°	11.0	10.0	8.0	7.0	5.0	3.0	1.0	0.0	0.0	0.0
140°	10.0	9.0	8.0	6.0	4.0	2.0	1.0	0.0	0.0	0.0
142.5°	10.0	8.0	7.0	6.0	4.0	2.0	1.0	0.0	0.0	0.0
145°	9.0	8.0	7.0	5.0	4.0	2.0	1.0	0.0	0.0	0.0
147.5°	8.0	7.0	6.0	5.0	3.0	2.0	1.0	0.0	0.0	0.0
150°	7.0	6.0	5.0	4.0	3.0	1.0	1.0	0.0	0.0	0.0
152.5°	6.0	5.0	5.0	4.0	2.0	1.0	1.0	0.0	0.0	0.0
155°	5.0	5.0	4.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0
157.5°	5.0	4.0	3.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0
160°	4.0	3.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
162.5°	3.0	3.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
165°	2.0	2.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
167.5°	2.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
170°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
172.5°	1.0	1.0	1.0	1.0	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)