

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: P289642

Luminaire Tested: **AXCS2ARL-C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289642
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: AXCS2ARL-C
Description: 2ARL AXCENT SMALL LED WALLPACK WITH 5000K CCT AND 70 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2715.9 lumens
Efficiency: N/A
Efficacy: 131.2 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

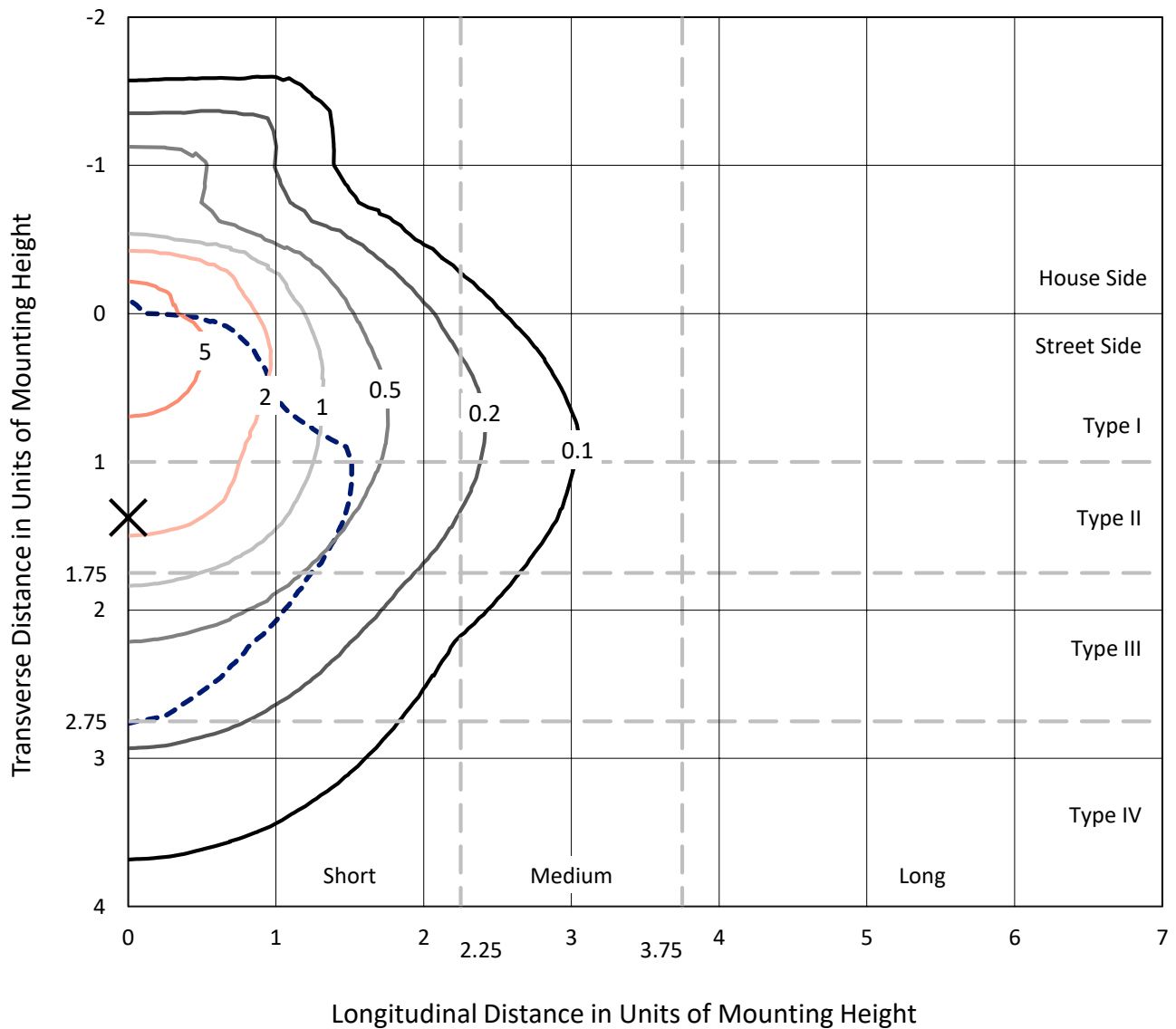
Input Watts (W): 20.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

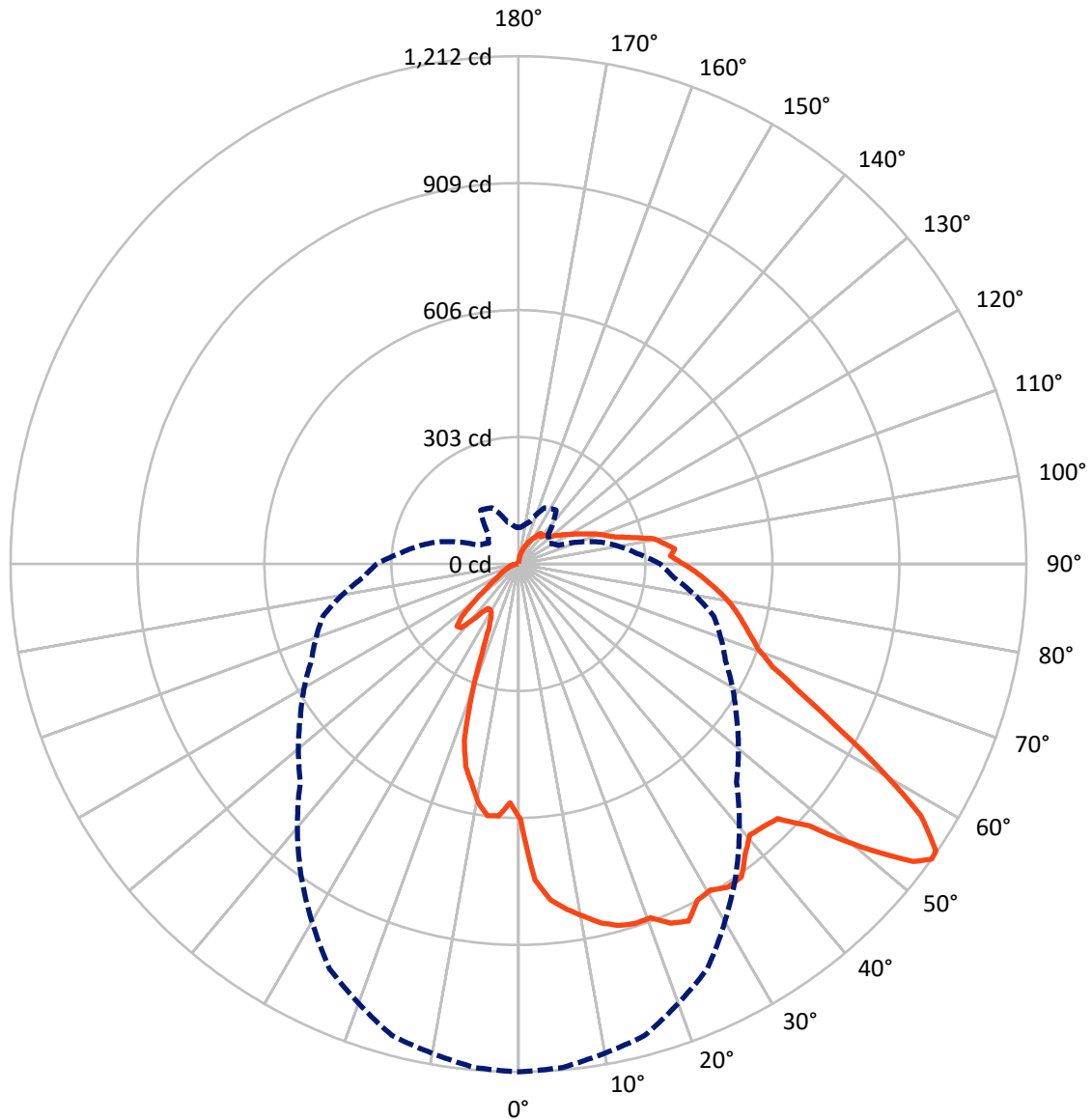
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.1 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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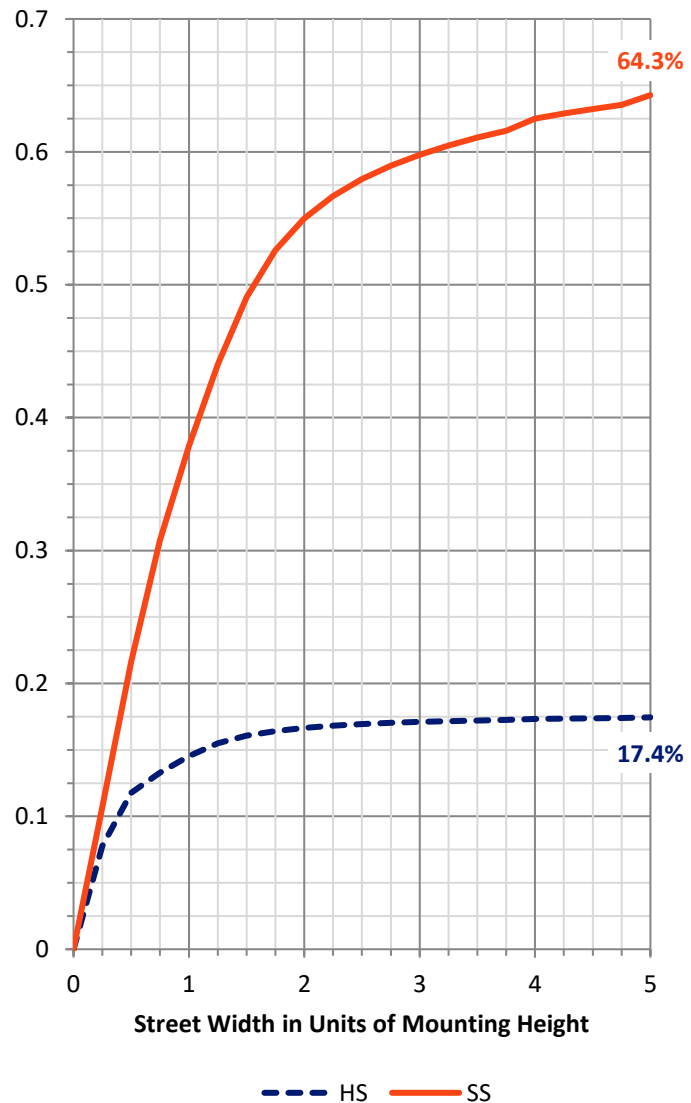
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	484.0	31.9	515.9
	% Fixture	17.8	1.2	19.0
Street Side	Lumens	1847.9	352.1	2200.1
	% Fixture	68.0	13.0	81.0
Total	Lumens	2331.9	384.0	2715.9
	% Fixture	85.9	14.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	2.4
10°-20°	191.7	7.1
20°-30°	276.6	10.2
30°-40°	324.5	11.9
40°-50°	356.9	13.1
50°-60°	404.2	14.9
60°-70°	319.7	11.8
70°-80°	227.0	8.4
80°-90°	166.8	6.1
90°-100°	126.9	4.7
100°-110°	89.9	3.3
110°-120°	62.5	2.3
120°-130°	42.8	1.6
130°-140°	29.8	1.1
140°-150°	19.4	0.7
150°-160°	9.5	0.4
160°-170°	3.0	0.1
170°-180°	0.2	0.0
0°-90°	2331.9	85.9
0°-180°	2715.9	100.0



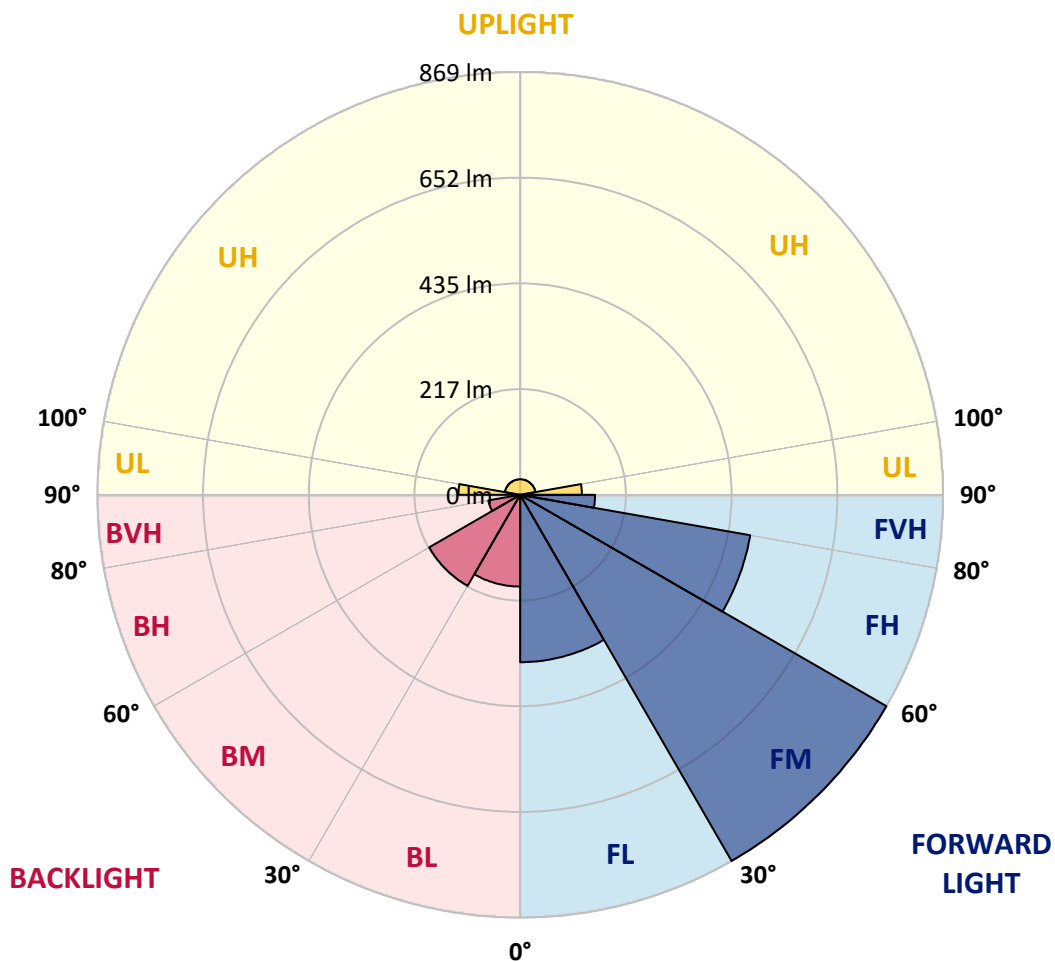
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	344.2	12.7			
FM	(30°-60°)	869.4	32.0			
FH	(60°-80°)	480.3	17.7			G0/660
FVH	(80°-90°)	154.0	5.7			G2/225
BL	(0°-30°)	188.6	6.9	B1/500		
BM	(30°-60°)	216.2	8.0	B0/220		
BH	(60°-80°)	66.3	2.4	B0/110		G0/110
BVH	(80°-90°)	12.8	0.5			G1/100
UL	(90°-100°)	126.9	4.7		U3/500	
UH	(100°-180°)	31.9	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°	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.1
2.5°	755.1	752.1	749.1	745.1	732.1	720.1	698.1	678.1	653.1	621.1	608.1
5°	806.1	802.1	801.1	798.1	791.1	781.1	765.1	737.1	692.1	632.1	607.1
7.5°	832.2	830.2	827.2	824.2	813.1	805.1	793.1	769.1	724.1	643.1	605.1
10°	855.2	853.2	848.2	842.2	832.2	819.1	803.1	783.1	746.1	655.1	603.1
12.5°	879.2	878.2	873.2	862.2	848.2	831.2	812.1	786.1	755.1	663.1	600.1
15°	895.2	894.2	890.2	882.2	867.2	845.2	819.1	790.1	754.1	672.1	598.1
17.5°	902.2	901.2	898.2	893.2	878.2	856.2	826.2	790.1	751.1	676.1	592.1
20°	901.2	900.2	895.2	890.2	880.2	863.2	832.2	788.1	744.1	677.1	585.1
22.5°	931.2	930.2	915.2	891.2	875.2	860.2	834.2	789.1	734.1	674.1	580.1
25°	944.2	943.2	942.2	923.2	878.2	850.2	830.2	786.1	724.1	664.1	573.1
27.5°	909.2	909.2	913.2	920.2	902.2	844.2	819.1	781.1	713.1	651.1	564.1
30°	903.2	903.2	895.2	886.2	894.2	854.2	803.1	771.1	700.1	631.1	551.1
32.5°	919.2	919.2	907.2	883.2	863.2	855.2	790.1	755.1	685.1	608.1	536.1
35°	917.2	916.2	912.2	892.2	854.2	827.2	783.1	730.1	666.1	578.1	517.1
37.5°	879.2	877.2	879.2	881.2	855.2	806.1	767.1	705.1	642.1	549.1	494.1
40°	850.2	848.2	841.2	839.2	839.2	796.1	739.1	680.1	616.1	521.1	471.1
42.5°	857.2	856.2	838.2	814.1	803.1	778.1	709.1	654.1	585.1	490.1	457.1
45°	867.2	869.2	856.2	824.2	779.1	745.1	679.1	619.1	562.1	471.1	426.1
47.5°	933.2	939.2	901.2	851.2	786.1	718.1	650.1	595.1	543.1	441.1	404.1
50°	1063.2	1067.2	1005.2	919.2	818.1	712.1	629.1	581.1	506.1	423.1	372.1
52.5°	1180.2	1179.2	1130.2	1019.2	871.2	722.1	629.1	555.1	500.1	395.1	348.1
54°	1212.2	1206.2	1165.2	1066.2	905.2	736.1	635.1	545.1	483.1	372.1	338.1
55°	1209.2	1202.2	1167.2	1081.2	920.2	746.1	635.1	544.1	457.1	356.1	321.1
57.5°	1132.2	1128.2	1099.2	1046.2	922.2	751.1	635.1	537.1	446.1	342.1	293.1
60°	989.2	979.2	957.2	926.2	852.2	715.1	647.1	538.1	436.1	322.1	279.1
62.5°	848.2	844.2	815.1	792.1	733.1	653.1	583.1	518.1	428.1	306.1	258.0
65°	738.1	724.1	700.1	663.1	606.1	561.1	526.1	508.1	408.1	281.1	235.0
67.5°	653.1	650.1	622.1	575.1	513.1	479.1	489.1	474.1	396.1	271.0	212.0
70°	607.1	603.1	574.1	519.1	449.1	405.1	412.1	405.1	380.1	259.0	191.0
72.5°	578.1	574.1	542.1	481.1	409.1	346.1	365.1	386.1	367.1	242.0	167.0
75°	553.1	548.1	514.1	453.1	379.1	316.1	322.1	352.1	337.1	235.0	146.0
77.5°	529.1	523.1	489.1	429.1	360.1	295.1	283.1	279.1	295.1	214.0	125.0
80°	503.1	499.1	466.1	408.1	345.1	275.1	270.0	278.1	251.0	176.0	102.0
82.5°	473.1	470.1	441.1	387.1	328.1	259.0	251.0	240.0	229.0	140.0	67.0
85°	445.1	443.1	416.1	366.1	311.1	246.0	236.0	225.0	205.0	113.0	43.0
87.5°	417.1	413.1	387.1	345.1	294.1	232.0	214.0	205.0	174.0	74.0	35.0
90°	388.1	386.1	364.1	325.1	279.1	223.0	210.0	186.0	154.0	61.0	29.0
92.5°	363.1	361.1	341.1	306.1	267.0	212.0	196.0	168.0	128.0	48.0	27.0
95°	375.1	373.1	352.1	314.1	268.0	213.0	182.0	155.0	111.0	42.0	27.0
97.5°	351.1	349.1	332.1	300.1	259.0	207.0	169.0	136.0	90.0	39.0	29.0
100°	330.1	325.1	310.1	283.1	246.0	191.0	155.0	116.0	78.0	40.0	31.0
102.5°	279.1	277.1	267.0	244.0	209.0	168.0	139.0	105.0	73.0	42.0	33.0
105°	241.0	240.0	233.0	218.0	188.0	152.0	125.0	98.0	69.0	43.0	35.0
107.5°	220.0	219.0	211.0	197.0	173.0	144.0	119.0	94.0	65.0	45.0	36.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	203.0	202.0	195.0	181.0	158.0	137.0	115.0	88.0	62.0	45.0	37.0
112.5°	184.0	183.0	178.0	167.0	147.0	129.0	108.0	81.0	60.0	45.0	36.0
115°	167.0	166.0	161.0	152.0	136.0	120.0	100.0	75.0	59.0	44.0	35.0
117.5°	152.0	151.0	147.0	139.0	125.0	111.0	92.0	71.0	58.0	42.0	34.0
120°	138.0	137.0	134.0	126.0	115.0	104.0	86.0	68.0	56.0	40.0	32.0
122.5°	129.0	128.0	124.0	118.0	107.0	97.0	81.0	68.0	54.0	38.0	30.0
125°	117.0	116.0	114.0	108.0	101.0	92.0	78.0	65.0	51.0	35.0	28.0
127.5°	110.0	110.0	107.0	101.0	97.0	87.0	75.0	62.0	48.0	32.0	25.0
130°	100.0	99.0	98.0	98.0	92.0	82.0	73.0	59.0	45.0	29.0	23.0
132.5°	96.0	97.0	97.0	94.0	87.0	79.0	69.0	55.0	42.0	27.0	21.0
135°	96.0	96.0	93.0	90.0	83.0	80.0	65.0	51.0	40.0	24.0	20.0
137.5°	91.0	90.0	88.0	84.0	86.0	75.0	61.0	48.0	37.0	22.0	18.0
140°	84.0	84.0	83.0	89.0	83.0	68.0	57.0	45.0	34.0	20.0	16.0
142.5°	91.0	93.0	96.0	86.0	73.0	64.0	53.0	43.0	31.0	17.0	15.0
145°	87.0	87.0	83.0	74.0	69.0	59.0	50.0	40.0	29.0	15.0	13.0
147.5°	75.0	75.0	73.0	70.0	62.0	56.0	46.0	37.0	26.0	13.0	12.0
150°	70.0	70.0	66.0	62.0	59.0	50.0	42.0	33.0	23.0	11.0	11.0
152.5°	61.0	61.0	61.0	59.0	52.0	45.0	39.0	29.0	20.0	10.0	10.0
155°	58.0	58.0	55.0	50.0	45.0	40.0	33.0	25.0	17.0	9.0	8.0
157.5°	49.0	48.0	47.0	44.0	41.0	36.0	29.0	22.0	15.0	8.0	7.0
160°	43.0	43.0	41.0	39.0	36.0	30.0	24.0	18.0	12.0	6.0	6.0
162.5°	36.0	36.0	35.0	33.0	29.0	25.0	20.0	15.0	10.0	5.0	5.0
165°	30.0	29.0	28.0	26.0	23.0	20.0	15.0	12.0	7.0	4.0	4.0
167.5°	22.0	22.0	21.0	20.0	18.0	13.0	11.0	8.0	4.0	4.0	3.0
170°	16.0	16.0	15.0	12.0	10.0	9.0	7.0	5.0	3.0	3.0	3.0
172.5°	6.0	6.0	6.0	6.0	5.0	4.0	4.0	2.0	2.0	2.0	2.0
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°	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.1
2.5°	598.1	581.1	570.1	564.1	563.1	564.1	566.1	569.1	569.1	570.1
5°	586.1	565.1	565.1	573.1	585.1	593.1	599.1	602.1	604.1	603.1
7.5°	576.1	561.1	577.1	595.1	605.1	608.1	607.1	607.1	605.1	605.1
10°	566.1	561.1	588.1	603.1	602.1	594.1	587.1	579.1	575.1	578.1
12.5°	556.1	563.1	591.1	595.1	584.1	563.1	550.1	542.1	537.1	535.1
15°	548.1	565.1	590.1	581.1	551.1	530.1	516.1	507.1	500.1	500.1
17.5°	539.1	565.1	577.1	551.1	521.1	498.1	479.1	455.1	446.1	441.1
20°	529.1	559.1	561.1	522.1	491.1	456.1	408.1	363.1	342.1	335.1
22.5°	520.1	550.1	535.1	494.1	454.1	385.1	309.1	258.0	232.0	233.0
25°	509.1	536.1	505.1	464.1	394.1	288.1	217.0	182.0	172.0	170.0
27.5°	497.1	519.1	480.1	425.1	318.1	211.0	169.0	152.0	146.0	144.0
30°	483.1	499.1	451.1	372.1	236.0	166.0	145.0	136.0	133.0	132.0
32.5°	466.1	474.1	419.1	308.1	187.0	144.0	132.0	128.0	127.0	128.0
35°	448.1	444.1	383.1	242.0	153.0	130.0	126.0	126.0	129.0	129.0
37.5°	426.1	412.1	339.1	191.0	135.0	123.0	124.0	133.0	143.0	144.0
40°	405.1	381.1	289.1	156.0	122.0	118.0	129.0	154.0	173.0	175.0
42.5°	387.1	352.1	237.0	134.0	114.0	118.0	146.0	183.0	203.0	205.0
45°	372.1	325.1	195.0	120.0	108.0	121.0	169.0	204.0	209.0	209.0
47.5°	341.1	288.1	159.0	107.0	104.0	131.0	187.0	198.0	187.0	186.0
50°	330.1	258.0	134.0	97.0	101.0	144.0	186.0	169.0	144.0	142.0
52.5°	289.1	220.0	114.0	91.0	101.0	155.0	168.0	125.0	104.0	103.0
54°	285.1	202.0	105.0	87.0	101.0	157.0	148.0	104.0	89.0	87.0
55°	284.1	191.0	99.0	85.0	102.0	156.0	135.0	94.0	79.0	79.0
57.5°	243.0	160.0	88.0	80.0	104.0	144.0	104.0	75.0	65.0	63.0
60°	223.0	137.0	79.0	75.0	105.0	126.0	80.0	61.0	53.0	52.0
62.5°	202.0	115.0	72.0	71.0	103.0	103.0	67.0	51.0	45.0	45.0
65°	174.0	97.0	65.0	67.0	99.0	82.0	55.0	44.0	39.0	39.0
67.5°	159.0	82.0	60.0	63.0	91.0	66.0	47.0	37.0	33.0	33.0
70°	136.0	70.0	55.0	59.0	81.0	56.0	39.0	32.0	29.0	28.0
72.5°	120.0	60.0	51.0	55.0	70.0	46.0	34.0	28.0	24.0	24.0
75°	95.0	53.0	47.0	51.0	60.0	37.0	28.0	23.0	20.0	20.0
77.5°	67.0	45.0	43.0	46.0	49.0	31.0	24.0	20.0	17.0	17.0
80°	50.0	39.0	40.0	42.0	41.0	26.0	20.0	17.0	14.0	14.0
82.5°	38.0	34.0	36.0	37.0	34.0	22.0	17.0	14.0	11.0	11.0
85°	29.0	30.0	33.0	32.0	26.0	19.0	15.0	11.0	8.0	8.0
87.5°	25.0	27.0	30.0	28.0	20.0	14.0	10.0	7.0	5.0	4.0
90°	23.0	25.0	27.0	23.0	16.0	11.0	6.0	4.0	2.0	1.0
92.5°	23.0	24.0	25.0	21.0	14.0	9.0	6.0	3.0	1.0	1.0
95°	24.0	24.0	25.0	20.0	13.0	8.0	5.0	2.0	1.0	0.0
97.5°	26.0	25.0	24.0	19.0	13.0	8.0	4.0	2.0	1.0	0.0
100°	28.0	25.0	24.0	19.0	13.0	8.0	4.0	2.0	1.0	0.0
102.5°	29.0	26.0	24.0	19.0	13.0	8.0	4.0	2.0	1.0	0.0
105°	30.0	26.0	23.0	18.0	12.0	8.0	4.0	2.0	1.0	0.0
107.5°	31.0	25.0	23.0	18.0	12.0	7.0	4.0	2.0	1.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	31.0	25.0	22.0	17.0	12.0	7.0	4.0	2.0	1.0	0.0
112.5°	31.0	24.0	21.0	17.0	12.0	7.0	4.0	2.0	1.0	0.0
115°	30.0	23.0	20.0	16.0	11.0	7.0	4.0	2.0	1.0	0.0
117.5°	29.0	22.0	19.0	15.0	11.0	7.0	4.0	2.0	1.0	0.0
120°	27.0	21.0	18.0	15.0	10.0	6.0	3.0	2.0	0.0	0.0
122.5°	26.0	20.0	17.0	14.0	10.0	6.0	3.0	2.0	0.0	0.0
125°	24.0	19.0	16.0	13.0	9.0	6.0	3.0	2.0	0.0	0.0
127.5°	22.0	18.0	15.0	12.0	9.0	5.0	3.0	2.0	0.0	0.0
130°	21.0	17.0	14.0	12.0	8.0	5.0	3.0	2.0	0.0	0.0
132.5°	19.0	16.0	13.0	11.0	8.0	5.0	3.0	2.0	0.0	0.0
135°	18.0	15.0	12.0	10.0	7.0	4.0	3.0	2.0	0.0	0.0
137.5°	16.0	14.0	12.0	9.0	7.0	4.0	2.0	1.0	0.0	0.0
140°	15.0	13.0	11.0	8.0	6.0	4.0	2.0	1.0	0.0	0.0
142.5°	14.0	12.0	10.0	8.0	5.0	3.0	2.0	1.0	0.0	0.0
145°	13.0	11.0	9.0	7.0	5.0	3.0	2.0	1.0	0.0	0.0
147.5°	11.0	10.0	8.0	6.0	4.0	3.0	2.0	1.0	0.0	0.0
150°	10.0	9.0	7.0	6.0	4.0	2.0	1.0	1.0	0.0	0.0
152.5°	9.0	8.0	7.0	5.0	4.0	2.0	1.0	1.0	0.0	0.0
155°	8.0	7.0	6.0	4.0	3.0	2.0	1.0	0.0	0.0	0.0
157.5°	7.0	6.0	5.0	4.0	3.0	2.0	1.0	0.0	0.0	0.0
160°	6.0	5.0	4.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0
162.5°	5.0	4.0	4.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0
165°	4.0	4.0	3.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0
167.5°	3.0	3.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
170°	3.0	3.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
172.5°	2.0	2.0	2.0	1.0	1.0	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)