

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: P290563

Luminaire Tested: **AXCS3ARL-W-GRF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-095-9)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: AXCS3ARL-W-GRF
Description: 3ARL AXCENT SMALL LED WALLPACK WITH 3000K CCT AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3012.5 lumens
Efficiency: N/A
Efficacy: 113.3 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

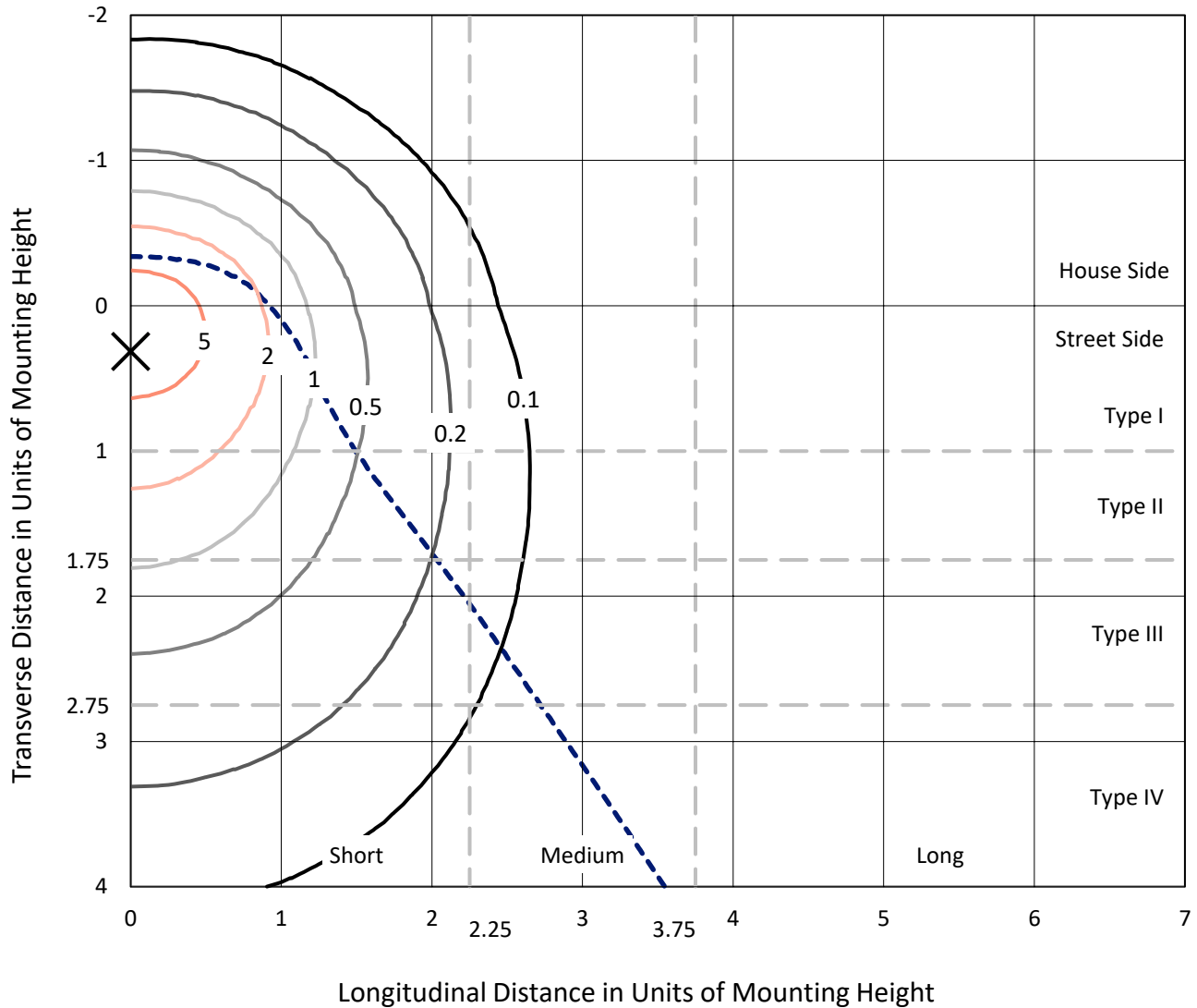
Input Watts (W): 26.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

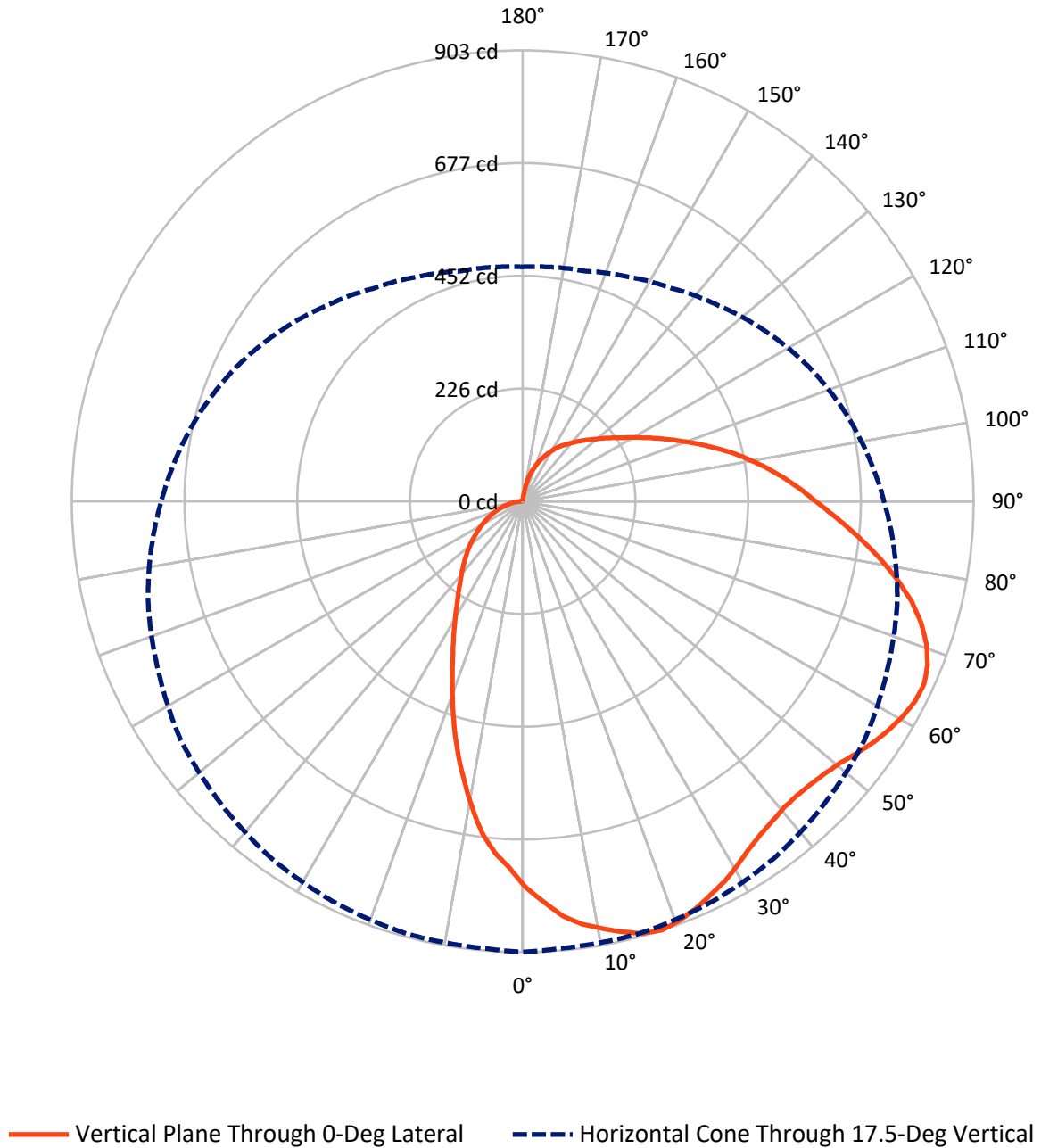
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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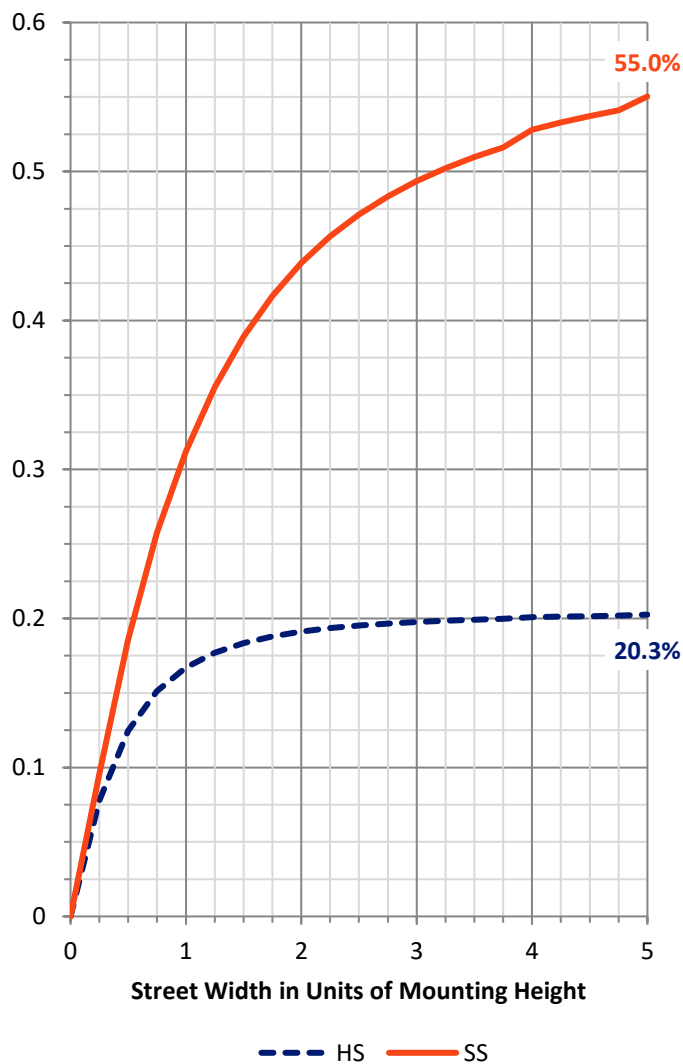
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	621.6	46.2	667.7
	% Fixture	20.6	1.5	22.2
Street Side	Lumens	1803.0	541.7	2344.7
	% Fixture	59.9	18.0	77.8
Total	Lumens	2424.6	587.9	3012.5
	% Fixture	80.5	19.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	2.4
10°-20°	203.5	6.8
20°-30°	291.0	9.7
30°-40°	332.8	11.0
40°-50°	345.5	11.5
50°-60°	344.0	11.4
60°-70°	328.4	10.9
70°-80°	284.8	9.5
80°-90°	221.6	7.4
90°-100°	175.8	5.8
100°-110°	138.4	4.6
110°-120°	101.5	3.4
120°-130°	71.9	2.4
130°-140°	49.1	1.6
140°-150°	30.6	1.0
150°-160°	15.5	0.5
160°-170°	4.9	0.2
170°-180°	0.2	0.0
0°-90°	2424.6	80.5
0°-180°	3012.5	100.0

Coefficient of Utilization

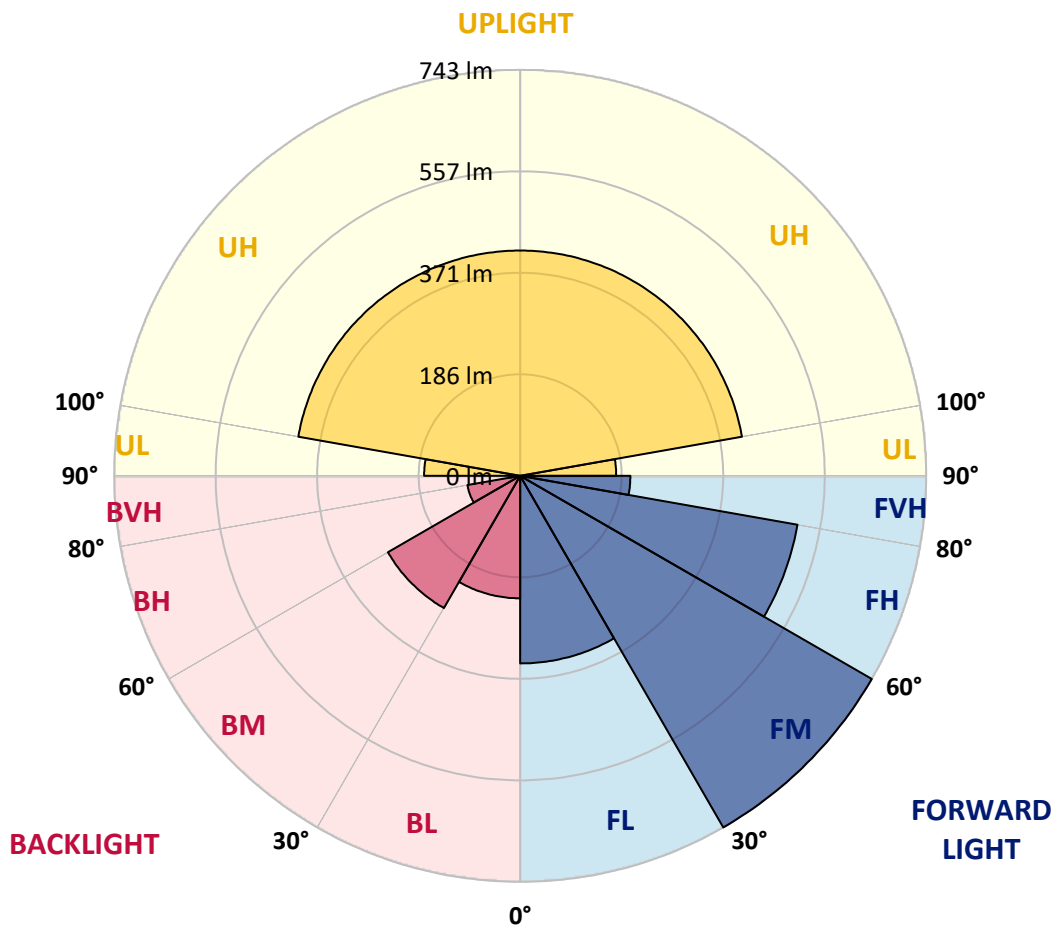


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.3	11.4			
FM (30°-60°)	742.9	24.7			
FH (60°-80°)	515.2	17.1			G0/660
FVH (80°-90°)	201.6	6.7			G2/225
BL (0°-30°)	224.1	7.4	B1/500		
BM (30°-60°)	279.4	9.3	B1/1000		
BH (60°-80°)	97.9	3.3	B0/110		G0/110
BVH (80°-90°)	20.0	0.7			G1/100
UL (90°-100°)	175.8	5.8		U3/500	
UH (100°-180°)	412.1	13.7		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°	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8
2.5°	803.1	799.7	800.2	798.2	796.8	793.3	791.4	786.5	782.1	778.2	774.2
5°	834.0	828.6	828.1	825.1	820.2	814.4	808.5	799.7	789.4	780.6	773.3
7.5°	855.0	850.6	849.6	846.2	837.9	830.0	820.2	807.5	793.8	778.6	768.9
10°	870.2	865.8	864.8	858.4	848.6	836.9	825.1	808.5	791.4	770.8	758.6
12.5°	884.8	881.4	878.5	871.6	859.9	845.7	830.5	809.5	788.9	762.5	749.3
15°	898.1	895.1	892.7	883.9	872.1	854.0	836.4	810.5	786.0	755.2	739.0
17.5°	903.0	898.6	896.6	887.3	874.6	855.5	835.4	805.1	776.7	741.9	723.8
20°	896.1	892.7	890.7	882.4	869.7	850.1	826.1	793.8	761.5	724.8	702.8
22.5°	886.3	883.9	880.0	874.1	860.9	841.3	814.4	780.6	744.4	703.8	681.3
25°	873.6	871.6	869.2	862.8	848.6	829.1	801.2	764.9	726.3	681.7	658.3
27.5°	861.8	858.4	855.5	848.6	834.9	813.4	786.5	748.3	705.2	656.8	632.3
30°	846.7	843.7	839.3	831.5	815.8	794.3	764.9	726.8	679.3	629.9	602.5
32.5°	831.0	829.5	822.7	813.9	794.8	772.3	741.9	700.3	651.9	600.0	572.6
35°	819.8	817.8	810.9	796.8	775.2	749.3	717.0	674.9	624.0	569.7	541.3
37.5°	812.4	810.0	801.2	782.6	756.6	726.3	691.5	646.5	595.1	538.8	510.0
40°	806.5	805.1	793.3	769.8	738.5	702.8	664.1	617.1	564.8	507.0	478.6
42.5°	805.6	803.1	789.4	760.1	722.4	680.3	635.3	587.3	534.4	475.7	446.8
45°	808.5	805.6	788.4	752.7	708.7	658.7	607.8	557.9	501.6	443.9	415.5
47.5°	814.9	812.9	791.9	748.8	695.9	637.7	580.9	527.1	471.3	412.1	383.7
50°	823.7	822.2	797.2	747.3	683.7	618.1	556.0	497.7	441.4	382.2	354.3
52.5°	837.9	833.0	805.6	748.8	676.9	600.0	530.0	467.9	411.6	352.9	326.4
55°	852.5	846.7	814.9	751.2	669.0	583.9	506.0	440.5	382.7	324.5	298.5
57.5°	864.3	858.4	824.2	754.7	662.7	569.7	484.5	415.0	355.8	298.0	273.1
60°	874.6	869.7	831.0	755.6	655.8	553.0	463.0	389.6	329.9	273.1	249.1
62.5°	881.9	875.6	836.9	753.2	648.0	537.9	442.9	365.6	304.9	249.6	225.6
65°	883.4	877.0	834.4	748.8	638.7	521.7	423.3	343.6	281.9	227.1	204.1
67.5°	874.6	869.7	827.1	739.0	626.4	506.5	403.3	322.5	259.9	206.5	184.0
70°	857.9	855.5	810.9	724.3	609.3	488.4	383.7	302.0	238.3	185.0	164.4
72.5°	834.4	832.5	788.4	703.3	591.2	469.3	364.1	283.4	218.3	166.4	145.8
75°	805.1	802.1	759.6	679.3	567.2	447.8	344.1	263.8	198.7	147.3	128.2
77.5°	768.9	767.4	727.7	649.4	541.8	425.3	324.0	244.7	180.6	129.7	110.1
80°	730.7	729.7	691.5	618.1	513.9	402.8	304.4	227.1	163.0	111.1	94.9
82.5°	691.0	690.6	654.3	583.9	485.5	379.8	285.3	210.4	147.8	96.9	80.8
85°	651.4	650.4	616.7	550.1	457.6	358.7	268.7	196.7	134.1	83.7	69.0
87.5°	613.7	612.7	580.4	518.3	431.7	337.7	253.5	184.0	122.4	72.9	59.7
90°	580.4	579.0	549.1	489.9	409.1	322.0	242.7	175.7	115.5	67.5	55.3
92.5°	550.6	549.6	521.2	466.9	391.0	310.8	235.9	172.3	113.1	66.1	54.3
95°	520.7	518.8	492.8	442.9	372.9	299.5	229.0	167.9	110.6	65.1	53.3
97.5°	490.4	488.9	464.9	418.9	354.8	287.3	221.7	163.0	107.7	64.1	51.9
100°	460.0	459.1	438.0	395.9	336.7	274.1	212.9	157.6	104.2	62.6	50.4
102.5°	430.7	430.2	410.1	372.0	318.6	260.4	203.6	151.7	100.8	60.7	48.9
105°	399.8	400.3	381.7	347.5	299.0	245.7	194.3	145.4	97.9	59.2	47.5
107.5°	371.0	370.5	354.3	323.5	280.4	233.4	185.5	139.5	94.5	57.3	46.0
110°	342.6	341.6	328.4	301.0	263.3	220.2	176.2	134.1	91.0	55.3	44.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	317.1	316.6	304.4	279.9	246.7	207.5	167.4	128.2	87.6	52.9	42.1
115°	293.6	293.2	281.9	260.4	231.0	196.3	159.5	121.4	83.7	50.4	40.1
117.5°	271.6	270.2	261.3	242.7	216.3	185.5	151.7	116.0	80.3	48.5	38.2
120°	251.6	251.1	243.2	227.1	203.6	175.2	144.4	110.6	76.8	46.0	36.2
122.5°	233.4	234.4	227.1	212.4	191.4	165.9	137.5	105.7	73.4	43.6	34.7
125°	218.8	218.3	212.4	199.7	180.6	157.6	131.2	100.8	70.0	41.1	32.8
127.5°	205.1	204.1	198.7	187.4	170.3	149.8	124.8	95.9	66.6	39.2	30.8
130°	191.8	190.9	186.0	176.7	160.5	141.9	117.5	91.0	62.6	36.7	28.9
132.5°	180.6	180.1	175.7	166.9	152.7	135.1	111.6	86.1	59.2	34.3	26.9
135°	170.3	169.8	165.4	158.1	144.4	128.2	105.7	81.2	55.8	31.8	25.0
137.5°	160.5	160.5	156.6	149.3	137.0	119.9	99.8	76.3	52.4	29.4	23.5
140°	151.2	151.2	147.3	140.5	129.2	112.6	93.5	71.0	48.5	26.9	21.5
142.5°	142.4	142.9	139.0	132.6	119.9	105.2	87.1	66.1	45.0	24.5	19.6
145°	134.1	134.6	130.7	124.3	112.1	97.9	80.8	61.7	41.6	22.0	18.1
147.5°	125.3	125.3	121.9	114.5	103.8	90.5	74.4	56.8	38.2	19.6	16.2
150°	114.5	115.0	111.1	105.2	95.4	82.7	68.0	51.9	34.3	16.6	14.7
152.5°	104.7	104.7	101.3	95.4	86.1	74.9	61.7	46.5	30.8	14.2	12.7
155°	94.5	94.5	91.0	85.6	77.3	67.0	54.8	41.1	26.9	11.3	11.3
157.5°	84.2	84.2	81.2	75.9	68.5	59.7	48.5	35.7	23.0	9.8	9.3
160°	73.4	73.4	71.0	65.6	59.7	51.9	41.1	29.9	19.1	8.3	7.8
162.5°	62.6	62.6	60.7	56.3	50.4	43.1	32.8	24.0	15.2	6.9	6.4
165°	51.9	51.9	49.9	45.5	40.1	32.3	24.0	17.6	10.8	5.4	4.9
167.5°	39.6	39.6	38.2	33.3	25.0	21.0	17.1	11.7	6.9	3.9	3.9
170°	20.6	21.0	17.1	16.2	15.2	12.2	9.3	6.4	3.4	2.9	2.9
172.5°	0.5	0.5	2.4	3.4	4.9	5.4	4.4	2.9	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°	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8
2.5°	771.3	764.5	757.1	751.2	746.3	743.9	740.0	736.1	736.1	735.1
5°	767.9	756.6	745.4	736.6	726.8	721.9	714.0	707.2	707.2	706.2
7.5°	760.5	745.4	730.7	715.5	701.3	691.0	679.3	669.0	666.1	669.0
10°	748.3	727.7	708.7	686.6	668.0	650.9	634.8	622.0	616.7	618.6
12.5°	736.1	711.6	686.2	658.7	631.8	609.8	588.8	574.6	570.2	568.2
15°	723.8	693.5	662.2	627.9	595.1	565.3	543.2	526.6	520.7	518.8
17.5°	706.7	671.5	633.8	593.7	554.5	520.7	496.3	477.2	471.3	469.3
20°	684.2	645.0	601.5	556.0	511.9	475.2	446.3	429.2	420.4	419.9
22.5°	658.7	616.2	568.7	518.3	470.3	433.1	402.8	385.7	376.8	375.4
25°	633.8	587.3	535.4	480.6	431.2	393.5	364.1	347.0	340.1	336.7
27.5°	608.8	559.4	502.6	444.9	395.0	357.8	330.4	313.7	306.4	304.4
30°	579.5	528.1	469.3	411.6	360.7	325.0	299.5	283.9	277.0	275.5
32.5°	547.6	495.3	435.1	376.8	329.9	295.6	272.1	258.4	251.6	249.6
35°	516.8	464.0	403.3	346.0	302.5	270.6	248.6	235.9	230.0	228.1
37.5°	486.0	432.6	372.0	318.6	278.0	248.1	228.6	216.3	211.4	209.5
40°	454.2	401.3	343.6	292.7	255.0	229.0	210.9	199.2	194.3	193.3
42.5°	424.3	373.4	317.6	270.2	234.4	210.9	195.3	185.0	179.1	178.6
45°	392.0	344.1	291.7	248.1	215.8	194.3	180.6	171.3	165.9	165.4
47.5°	364.1	317.1	267.7	227.6	198.7	179.6	166.9	158.1	153.7	152.7
50°	334.8	291.2	247.2	210.0	183.0	166.4	154.2	145.8	141.4	140.9
52.5°	308.3	268.2	226.6	192.8	168.8	153.2	142.4	134.6	130.2	129.2
55°	282.4	245.2	207.5	177.2	155.1	140.5	130.7	123.8	117.9	117.0
57.5°	258.4	224.1	189.9	162.0	142.4	129.7	119.4	112.1	107.7	106.2
60°	235.4	204.1	173.3	148.3	130.2	117.5	108.6	101.8	97.4	95.9
62.5°	213.4	185.5	157.6	135.1	117.5	106.7	98.4	92.0	87.6	85.6
65°	192.3	167.4	142.9	122.4	106.2	96.4	88.1	82.2	77.3	76.3
67.5°	173.3	150.7	128.7	109.1	95.4	86.6	78.3	72.9	68.5	67.0
70°	155.1	134.6	114.0	97.9	85.2	76.3	69.5	63.6	59.2	57.8
72.5°	137.5	118.4	100.8	86.6	74.9	66.6	60.2	54.3	50.4	49.9
75°	118.9	103.8	88.6	75.4	65.6	57.3	51.4	46.0	42.1	41.6
77.5°	103.3	89.6	76.3	65.1	56.3	48.5	43.1	38.2	33.8	33.3
80°	88.6	76.8	65.6	55.8	47.5	40.6	35.2	30.3	26.4	25.9
82.5°	75.4	65.1	55.8	47.5	39.6	33.8	28.4	23.5	20.1	19.6
85°	64.6	55.8	48.0	40.1	33.3	27.4	22.5	18.1	14.2	14.2
87.5°	55.8	48.9	42.1	34.7	27.4	21.0	16.2	11.3	7.8	6.9
90°	51.9	44.0	36.2	28.9	21.0	14.7	9.8	5.4	2.0	1.5
92.5°	50.9	43.6	35.7	27.9	20.1	13.7	8.8	4.4	1.0	0.5
95°	49.9	42.6	35.2	27.4	20.1	13.7	8.8	3.9	1.0	0.5
97.5°	48.5	41.6	34.7	26.9	19.6	13.2	8.3	3.9	1.0	0.5
100°	47.5	40.6	33.8	26.4	19.6	13.2	8.3	3.9	1.0	0.5
102.5°	46.0	39.6	32.8	25.9	18.6	12.7	7.8	3.4	0.5	0.5
105°	44.5	38.7	32.3	25.4	18.6	12.2	7.3	3.4	0.5	0.5
107.5°	43.1	37.7	31.3	24.5	17.6	11.7	6.9	2.9	0.5	0.5
110°	41.6	36.2	30.3	24.0	17.1	11.3	6.9	2.9	0.5	0.5



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	39.6	34.7	28.9	23.0	16.6	10.8	6.4	2.4	0.0	0.0
115°	38.2	33.3	27.9	22.0	15.7	10.3	5.9	2.4	0.0	0.0
117.5°	36.2	31.8	26.9	21.0	15.2	9.8	5.4	2.0	0.0	0.0
120°	34.7	30.3	25.4	20.1	14.7	9.3	5.4	2.0	0.0	0.0
122.5°	32.8	28.9	24.5	19.1	13.7	8.8	4.9	1.5	0.0	0.0
125°	30.8	27.4	23.0	18.1	13.2	7.8	4.4	1.5	0.0	0.0
127.5°	29.4	25.9	22.0	17.1	12.2	7.3	3.9	1.0	0.0	0.0
130°	27.4	24.5	20.6	16.2	11.7	6.9	3.9	1.0	0.0	0.0
132.5°	25.4	23.0	19.6	15.2	10.8	6.4	3.4	1.0	0.0	0.0
135°	24.0	21.5	18.1	14.2	10.3	5.9	2.9	1.0	0.0	0.0
137.5°	22.5	20.1	17.1	13.2	9.3	5.4	2.4	1.0	0.0	0.0
140°	20.6	18.6	15.7	12.2	8.3	4.9	2.4	0.5	0.0	0.0
142.5°	18.6	16.6	14.2	11.3	7.8	4.4	2.0	0.5	0.0	0.0
145°	17.1	15.2	13.2	10.3	6.9	3.9	1.5	0.5	0.0	0.0
147.5°	15.7	14.2	11.7	9.3	6.4	3.4	1.5	0.5	0.0	0.0
150°	13.7	12.7	10.8	8.3	5.4	2.9	1.5	0.5	0.0	0.0
152.5°	12.2	11.3	9.3	7.3	4.9	2.4	1.0	0.5	0.0	0.0
155°	10.8	9.3	7.8	5.9	3.9	2.0	1.0	0.5	0.0	0.0
157.5°	9.3	8.3	6.9	4.9	3.4	1.5	1.0	0.5	0.0	0.0
160°	7.8	6.9	5.9	4.4	2.4	1.5	0.5	0.5	0.0	0.0
162.5°	6.4	5.4	4.9	3.4	2.0	1.5	0.5	0.5	0.0	0.0
165°	4.9	4.4	3.4	2.4	1.5	1.0	0.5	0.0	0.0	0.0
167.5°	3.9	3.4	2.9	2.0	1.5	1.0	0.5	0.0	0.0	0.0
170°	2.9	2.4	2.0	1.5	1.5	1.0	0.5	0.0	0.0	0.0
172.5°	2.0	1.5	1.5	1.5	1.0	0.5	0.5	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)