

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: P290564

Luminaire Tested: **AXCS3ARL-GRF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290564
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-GRF
Description: 3ARL AXCENT SMALL LED WALLPACK WITH 4000K CCT AND 70 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3564.7 lumens
Efficiency: N/A
Efficacy: 134.0 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 - G3

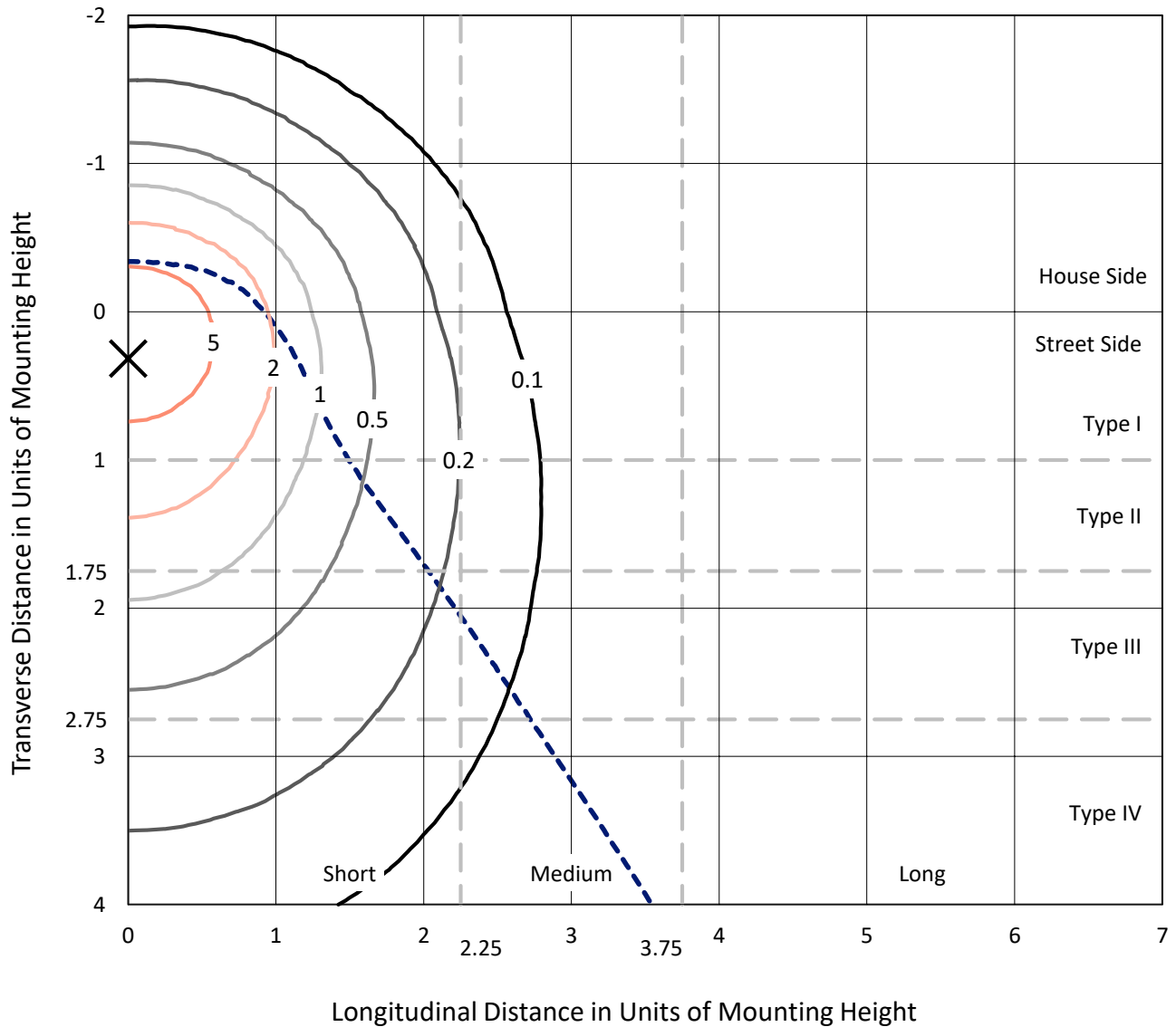
Input Watts (W): 26.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

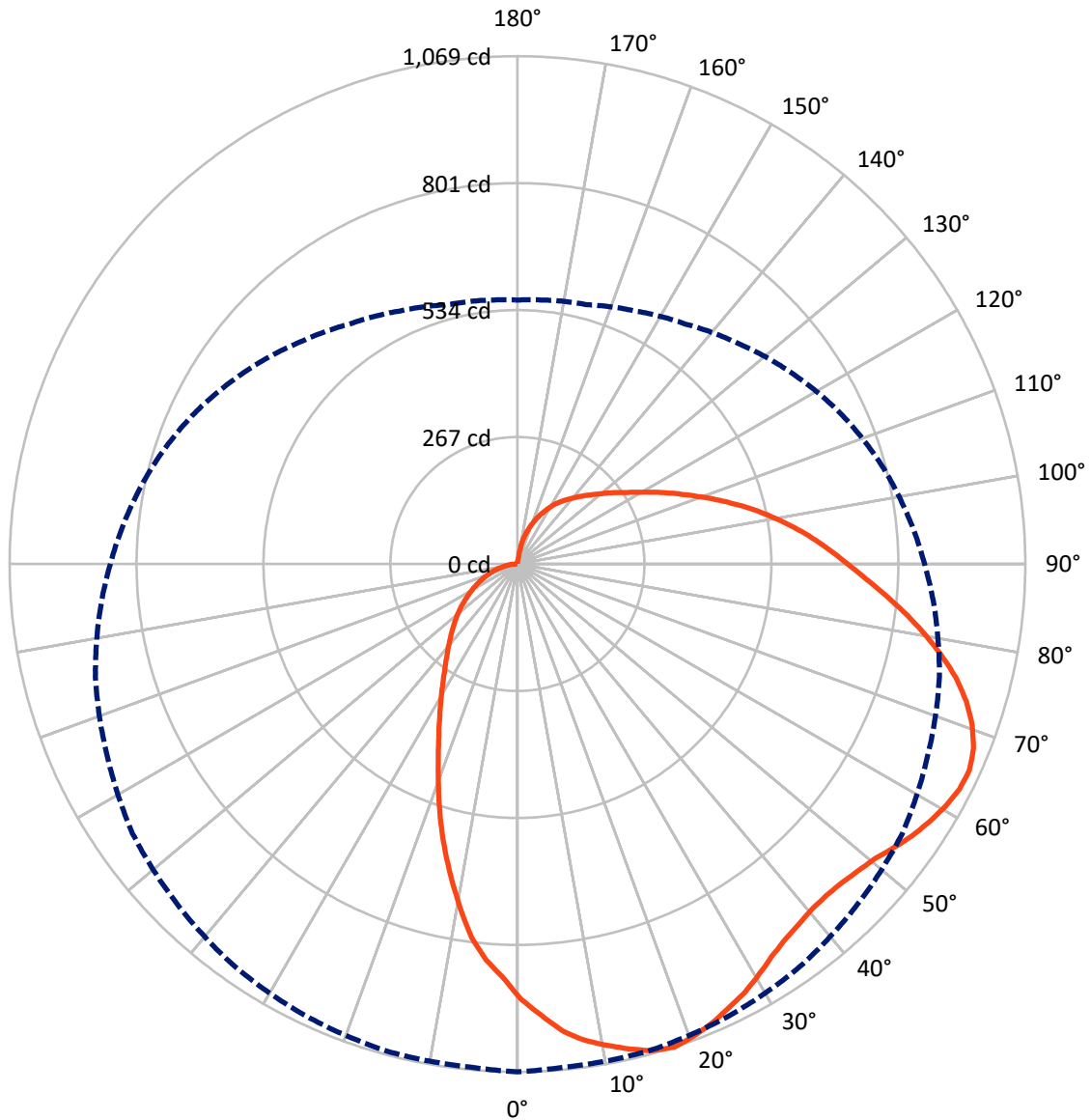
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.8 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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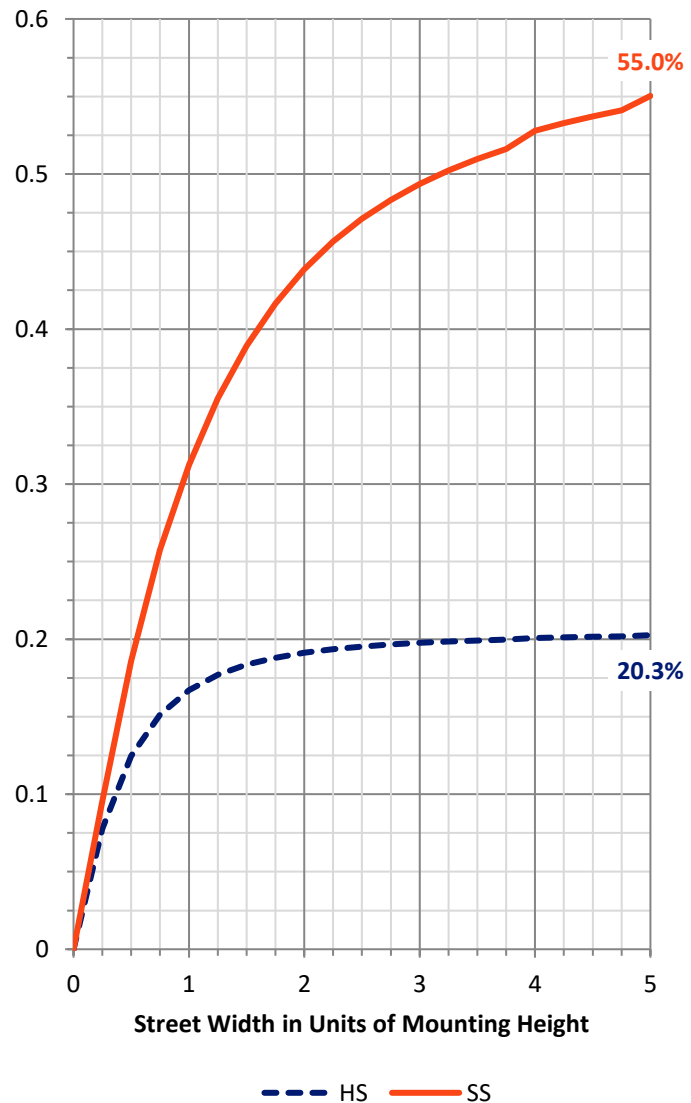
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	735.5	54.7	790.2
	% Fixture	20.6	1.5	22.2
Street Side	Lumens	2133.6	641.0	2774.6
	% Fixture	59.9	18.0	77.8
Total	Lumens	2869.1	695.7	3564.7
	% Fixture	80.5	19.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	2.4
10°-20°	240.8	6.8
20°-30°	344.3	9.7
30°-40°	393.9	11.0
40°-50°	408.9	11.5
50°-60°	407.0	11.4
60°-70°	388.6	10.9
70°-80°	337.0	9.5
80°-90°	262.3	7.4
90°-100°	208.0	5.8
100°-110°	163.8	4.6
110°-120°	120.1	3.4
120°-130°	85.1	2.4
130°-140°	58.1	1.6
140°-150°	36.2	1.0
150°-160°	18.3	0.5
160°-170°	5.7	0.2
170°-180°	0.2	0.0
0°-90°	2869.1	80.5
0°-180°	3564.7	100.0

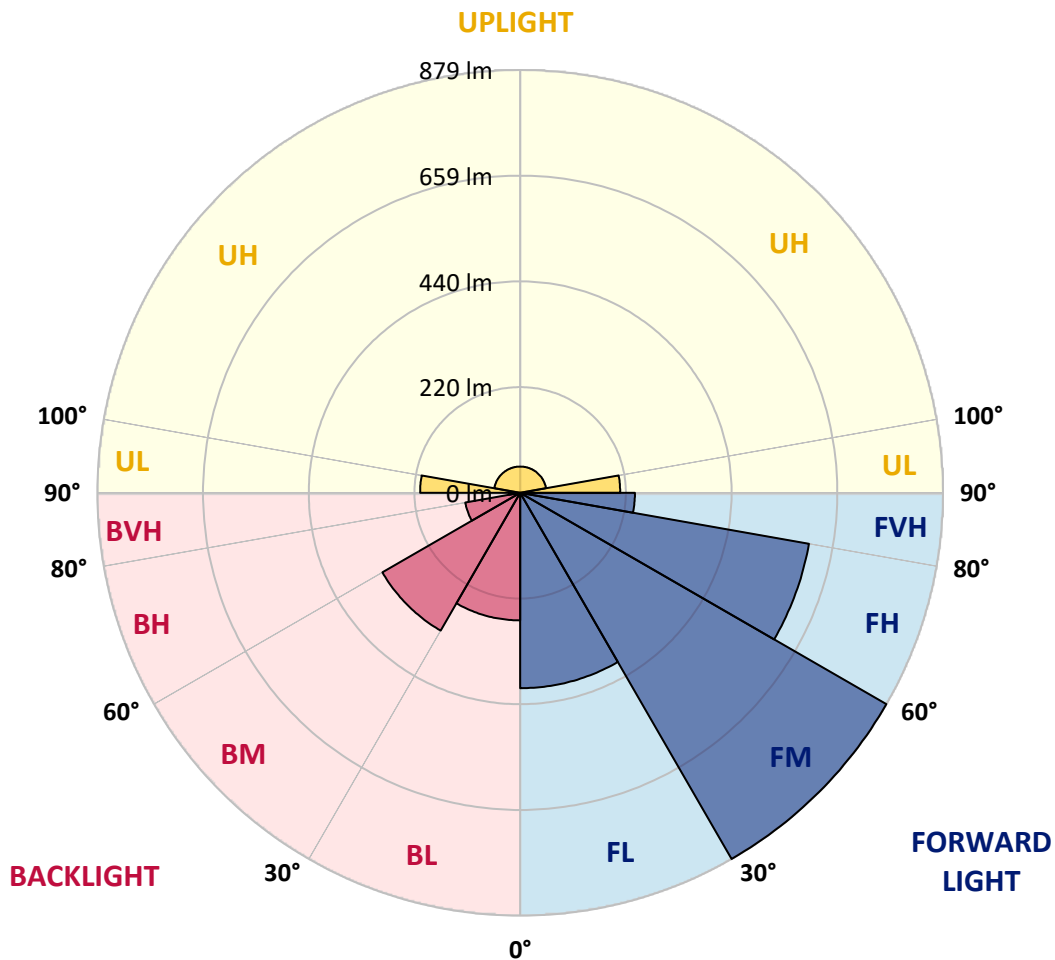


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	406.2	11.4			
FM (30°-60°)	879.1	24.7			
FH (60°-80°)	609.7	17.1			G0/660
FVH (80°-90°)	238.6	6.7			G3/500
BL (0°-30°)	265.2	7.4	B1/500		
BM (30°-60°)	330.7	9.3	B1/1000		
BH (60°-80°)	115.9	3.3	B1/500		G1/500
BVH (80°-90°)	23.7	0.7			G1/100
UL (90°-100°)	208.0	5.8		U3/500	
UH (100°-180°)	54.7	1.5		U3/500	

BUG Rating: B1-U3-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	915.6	915.6	915.6	915.6	915.6	915.6	915.6	915.6	915.6	915.6	915.6
2.5°	950.4	946.3	946.9	944.6	942.8	938.8	936.5	930.7	925.5	920.8	916.2
5°	986.8	980.5	979.9	976.4	970.6	963.7	956.7	946.3	934.1	923.7	915.0
7.5°	1011.7	1006.5	1005.4	1001.3	991.5	982.2	970.6	955.6	939.4	921.4	909.8
10°	1029.7	1024.5	1023.3	1015.8	1004.2	990.3	976.4	956.7	936.5	912.1	897.7
12.5°	1047.1	1043.0	1039.5	1031.4	1017.5	1000.7	982.8	957.9	933.6	902.3	886.7
15°	1062.7	1059.2	1056.3	1045.9	1032.0	1010.6	989.7	959.0	930.1	893.6	874.5
17.5°	1068.5	1063.3	1061.0	1050.0	1034.9	1012.3	988.6	952.7	919.1	878.0	856.5
20°	1060.4	1056.3	1054.0	1044.2	1029.1	1006.0	977.6	939.4	901.1	857.7	831.6
22.5°	1048.8	1045.9	1041.3	1034.3	1018.7	995.5	963.7	923.7	880.9	832.8	806.2
25°	1033.8	1031.4	1028.5	1021.0	1004.2	981.1	948.0	905.2	859.4	806.7	778.9
27.5°	1019.9	1015.8	1012.3	1004.2	988.0	962.5	930.7	885.5	834.5	777.2	748.2
30°	1001.9	998.4	993.2	983.9	965.4	939.9	905.2	860.0	803.8	745.3	712.9
32.5°	983.4	981.6	973.5	963.1	940.5	913.9	878.0	828.7	771.4	710.0	677.6
35°	970.0	967.7	959.6	942.8	917.3	886.7	848.4	798.6	738.4	674.1	640.5
37.5°	961.4	958.5	948.0	926.0	895.3	859.4	818.3	765.0	704.2	637.6	603.5
40°	954.4	952.7	938.8	911.0	873.9	831.6	785.9	730.3	668.3	600.0	566.4
42.5°	953.3	950.4	934.1	899.4	854.8	805.0	751.7	695.0	632.4	562.9	528.7
45°	956.7	953.3	933.0	890.7	838.6	779.5	719.3	660.2	593.6	525.3	491.7
47.5°	964.3	961.9	937.0	886.1	823.5	754.6	687.4	623.7	557.7	487.6	454.0
50°	974.7	972.9	943.4	884.3	809.0	731.4	657.9	589.0	522.4	452.3	419.3
52.5°	991.5	985.7	953.3	886.1	800.9	710.0	627.2	553.7	487.1	417.6	386.3
55°	1008.8	1001.9	964.3	889.0	791.7	690.9	598.8	521.2	452.9	384.0	353.3
57.5°	1022.7	1015.8	975.3	893.0	784.1	674.1	573.3	491.1	421.0	352.7	323.2
60°	1034.9	1029.1	983.4	894.2	776.0	654.4	547.9	461.0	390.3	323.2	294.8
62.5°	1043.6	1036.1	990.3	891.3	766.8	636.5	524.1	432.6	360.8	295.4	267.0
65°	1045.3	1037.8	987.4	886.1	755.8	617.4	500.9	406.6	333.6	268.7	241.5
67.5°	1034.9	1029.1	978.7	874.5	741.3	599.4	477.2	381.6	307.5	244.4	217.8
70°	1015.2	1012.3	959.6	857.1	721.0	578.0	454.0	357.3	282.0	218.9	194.6
72.5°	987.4	985.1	933.0	832.2	699.6	555.4	430.9	335.3	258.3	196.9	172.6
75°	952.7	949.2	898.8	803.8	671.2	529.9	407.1	312.2	235.1	174.3	151.7
77.5°	909.8	908.1	861.2	768.5	641.1	503.3	383.4	289.6	213.7	153.5	130.3
80°	864.6	863.5	818.3	731.4	608.1	476.6	360.2	268.7	192.9	131.5	112.4
82.5°	817.7	817.2	774.3	690.9	574.5	449.4	337.6	249.0	174.9	114.7	95.6
85°	770.8	769.7	729.7	650.9	541.5	424.5	317.9	232.8	158.7	99.0	81.7
87.5°	726.2	725.1	686.9	613.3	510.8	399.6	300.0	217.8	144.8	86.3	70.7
90°	686.9	685.1	649.8	579.7	484.2	381.1	287.2	207.9	136.7	79.9	65.4
92.5°	651.5	650.4	616.8	552.5	462.7	367.7	279.1	203.9	133.8	78.2	64.3
95°	616.2	613.9	583.2	524.1	441.3	354.4	271.0	198.6	130.9	77.0	63.1
97.5°	580.3	578.6	550.2	495.7	419.9	340.0	262.3	192.9	127.4	75.9	61.4
100°	544.4	543.2	518.3	468.5	398.4	324.3	251.9	186.5	123.4	74.1	59.7
102.5°	509.6	509.1	485.3	440.1	377.0	308.1	240.9	179.5	119.3	71.8	57.9
105°	473.2	473.7	451.7	411.2	353.9	290.7	229.9	172.0	115.8	70.1	56.2
107.5°	439.0	438.4	419.3	382.8	331.8	276.2	219.5	165.1	111.8	67.8	54.4
110°	405.4	404.2	388.6	356.2	311.6	260.6	208.5	158.7	107.7	65.4	52.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	375.3	374.7	360.2	331.3	291.9	245.6	198.1	151.7	103.7	62.5	49.8
115°	347.5	346.9	333.6	308.1	273.4	232.2	188.8	143.6	99.0	59.7	47.5
117.5°	321.4	319.7	309.3	287.2	256.0	219.5	179.5	137.3	95.0	57.3	45.2
120°	297.7	297.1	287.8	268.7	240.9	207.3	170.8	130.9	90.9	54.4	42.9
122.5°	276.2	277.4	268.7	251.3	226.4	196.3	162.7	125.1	86.9	51.5	41.1
125°	258.9	258.3	251.3	236.3	213.7	186.5	155.2	119.3	82.8	48.6	38.8
127.5°	242.7	241.5	235.1	221.8	201.5	177.2	147.7	113.5	78.8	46.3	36.5
130°	227.0	225.9	220.1	209.1	190.0	167.9	139.0	107.7	74.1	43.4	34.2
132.5°	213.7	213.1	207.9	197.5	180.7	159.8	132.0	101.9	70.1	40.5	31.9
135°	201.5	201.0	195.7	187.1	170.8	151.7	125.1	96.1	66.0	37.6	29.5
137.5°	190.0	190.0	185.3	176.6	162.2	141.9	118.1	90.3	62.0	34.7	27.8
140°	179.0	179.0	174.3	166.2	152.9	133.2	110.6	84.0	57.3	31.9	25.5
142.5°	168.5	169.1	164.5	156.9	141.9	124.5	103.1	78.2	53.3	29.0	23.2
145°	158.7	159.3	154.6	147.1	132.6	115.8	95.6	73.0	49.2	26.1	21.4
147.5°	148.3	148.3	144.2	135.5	122.8	107.1	88.0	67.2	45.2	23.2	19.1
150°	135.5	136.1	131.5	124.5	112.9	97.9	80.5	61.4	40.5	19.7	17.4
152.5°	123.9	123.9	119.9	112.9	101.9	88.6	73.0	55.0	36.5	16.8	15.1
155°	111.8	111.8	107.7	101.3	91.5	79.3	64.9	48.6	31.9	13.3	13.3
157.5°	99.6	99.6	96.1	89.8	81.1	70.7	57.3	42.3	27.2	11.6	11.0
160°	86.9	86.9	84.0	77.6	70.7	61.4	48.6	35.3	22.6	9.8	9.3
162.5°	74.1	74.1	71.8	66.6	59.7	51.0	38.8	28.4	18.0	8.1	7.5
165°	61.4	61.4	59.1	53.9	47.5	38.2	28.4	20.8	12.7	6.4	5.8
167.5°	46.9	46.9	45.2	39.4	29.5	24.9	20.3	13.9	8.1	4.6	4.6
170°	24.3	24.9	20.3	19.1	18.0	14.5	11.0	7.5	4.1	3.5	3.5
172.5°	0.6	0.6	2.9	4.1	5.8	6.4	5.2	3.5	2.3	2.3	2.3
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°	915.6	915.6	915.6	915.6	915.6	915.6	915.6	915.6	915.6	915.6
2.5°	912.7	904.6	895.9	889.0	883.2	880.3	875.6	871.0	871.0	869.9
5°	908.7	895.3	882.0	871.6	860.0	854.2	845.0	836.8	836.8	835.7
7.5°	900.0	882.0	864.6	846.7	829.9	817.7	803.8	791.7	788.2	791.7
10°	885.5	861.2	838.6	812.5	790.5	770.2	751.1	736.1	729.7	732.0
12.5°	871.0	842.1	811.9	779.5	747.7	721.6	696.7	679.9	674.7	672.4
15°	856.5	820.6	783.6	743.0	704.2	668.9	642.8	623.1	616.2	613.9
17.5°	836.3	794.6	750.0	702.5	656.2	616.2	587.2	564.7	557.7	555.4
20°	809.6	763.3	711.8	657.9	605.8	562.3	528.2	507.9	497.5	496.9
22.5°	779.5	729.1	673.0	613.3	556.5	512.5	476.6	456.4	445.9	444.2
25°	750.0	695.0	633.6	568.7	510.2	465.6	430.9	410.6	402.5	398.4
27.5°	720.4	661.9	594.8	526.4	467.4	423.3	390.9	371.2	362.5	360.2
30°	685.7	624.9	555.4	487.1	426.8	384.5	354.4	335.9	327.8	326.1
32.5°	648.0	586.1	514.8	445.9	390.3	349.8	322.0	305.8	297.7	295.4
35°	611.6	549.0	477.2	409.4	357.9	320.3	294.2	279.1	272.2	269.9
37.5°	575.1	512.0	440.1	377.0	328.9	293.6	270.5	256.0	250.2	247.9
40°	537.4	474.9	406.6	346.3	301.7	271.0	249.6	235.7	229.9	228.8
42.5°	502.1	441.9	375.9	319.7	277.4	249.6	231.1	218.9	212.0	211.4
45°	463.9	407.1	345.2	293.6	255.4	229.9	213.7	202.7	196.3	195.7
47.5°	430.9	375.3	316.8	269.3	235.1	212.5	197.5	187.1	181.8	180.7
50°	396.1	344.6	292.5	248.4	216.6	196.9	182.4	172.6	167.4	166.8
52.5°	364.9	317.4	268.1	228.2	199.8	181.3	168.5	159.3	154.0	152.9
55°	334.2	290.1	245.6	209.6	183.6	166.2	154.6	146.5	139.6	138.4
57.5°	305.8	265.2	224.7	191.7	168.5	153.5	141.3	132.6	127.4	125.7
60°	278.6	241.5	205.0	175.5	154.0	139.0	128.6	120.5	115.2	113.5
62.5°	252.5	219.5	186.5	159.8	139.0	126.3	116.4	108.9	103.7	101.3
65°	227.6	198.1	169.1	144.8	125.7	114.1	104.2	97.3	91.5	90.3
67.5°	205.0	178.4	152.3	129.1	112.9	102.5	92.7	86.3	81.1	79.3
70°	183.6	159.3	134.9	115.8	100.8	90.3	82.2	75.3	70.1	68.3
72.5°	162.7	140.2	119.3	102.5	88.6	78.8	71.2	64.3	59.7	59.1
75°	140.7	122.8	104.8	89.2	77.6	67.8	60.8	54.4	49.8	49.2
77.5°	122.2	106.0	90.3	77.0	66.6	57.3	51.0	45.2	40.0	39.4
80°	104.8	90.9	77.6	66.0	56.2	48.1	41.7	35.9	31.3	30.7
82.5°	89.2	77.0	66.0	56.2	46.9	40.0	33.6	27.8	23.7	23.2
85°	76.4	66.0	56.8	47.5	39.4	32.4	26.6	21.4	16.8	16.8
87.5°	66.0	57.9	49.8	41.1	32.4	24.9	19.1	13.3	9.3	8.1
90°	61.4	52.1	42.9	34.2	24.9	17.4	11.6	6.4	2.3	1.7
92.5°	60.2	51.5	42.3	33.0	23.7	16.2	10.4	5.2	1.2	0.6
95°	59.1	50.4	41.7	32.4	23.7	16.2	10.4	4.6	1.2	0.6
97.5°	57.3	49.2	41.1	31.9	23.2	15.6	9.8	4.6	1.2	0.6
100°	56.2	48.1	40.0	31.3	23.2	15.6	9.8	4.6	1.2	0.6
102.5°	54.4	46.9	38.8	30.7	22.0	15.1	9.3	4.1	0.6	0.6
105°	52.7	45.8	38.2	30.1	22.0	14.5	8.7	4.1	0.6	0.6
107.5°	51.0	44.6	37.1	29.0	20.8	13.9	8.1	3.5	0.6	0.6
110°	49.2	42.9	35.9	28.4	20.3	13.3	8.1	3.5	0.6	0.6



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	46.9	41.1	34.2	27.2	19.7	12.7	7.5	2.9	0.0	0.0
115°	45.2	39.4	33.0	26.1	18.5	12.2	6.9	2.9	0.0	0.0
117.5°	42.9	37.6	31.9	24.9	18.0	11.6	6.4	2.3	0.0	0.0
120°	41.1	35.9	30.1	23.7	17.4	11.0	6.4	2.3	0.0	0.0
122.5°	38.8	34.2	29.0	22.6	16.2	10.4	5.8	1.7	0.0	0.0
125°	36.5	32.4	27.2	21.4	15.6	9.3	5.2	1.7	0.0	0.0
127.5°	34.7	30.7	26.1	20.3	14.5	8.7	4.6	1.2	0.0	0.0
130°	32.4	29.0	24.3	19.1	13.9	8.1	4.6	1.2	0.0	0.0
132.5°	30.1	27.2	23.2	18.0	12.7	7.5	4.1	1.2	0.0	0.0
135°	28.4	25.5	21.4	16.8	12.2	6.9	3.5	1.2	0.0	0.0
137.5°	26.6	23.7	20.3	15.6	11.0	6.4	2.9	1.2	0.0	0.0
140°	24.3	22.0	18.5	14.5	9.8	5.8	2.9	0.6	0.0	0.0
142.5°	22.0	19.7	16.8	13.3	9.3	5.2	2.3	0.6	0.0	0.0
145°	20.3	18.0	15.6	12.2	8.1	4.6	1.7	0.6	0.0	0.0
147.5°	18.5	16.8	13.9	11.0	7.5	4.1	1.7	0.6	0.0	0.0
150°	16.2	15.1	12.7	9.8	6.4	3.5	1.7	0.6	0.0	0.0
152.5°	14.5	13.3	11.0	8.7	5.8	2.9	1.2	0.6	0.0	0.0
155°	12.7	11.0	9.3	6.9	4.6	2.3	1.2	0.6	0.0	0.0
157.5°	11.0	9.8	8.1	5.8	4.1	1.7	1.2	0.6	0.0	0.0
160°	9.3	8.1	6.9	5.2	2.9	1.7	0.6	0.6	0.0	0.0
162.5°	7.5	6.4	5.8	4.1	2.3	1.7	0.6	0.6	0.0	0.0
165°	5.8	5.2	4.1	2.9	1.7	1.2	0.6	0.0	0.0	0.0
167.5°	4.6	4.1	3.5	2.3	1.7	1.2	0.6	0.0	0.0	0.0
170°	3.5	2.9	2.3	1.7	1.7	1.2	0.6	0.0	0.0	0.0
172.5°	2.3	1.7	1.7	1.7	1.2	0.6	0.6	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)