

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: P290548

Luminaire Tested: **AXCS3ARL-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1811-024-10)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: AXCS3ARL-W
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: 3130.1 lumens
Efficiency: N/A
Efficacy: 117.7 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 - G2

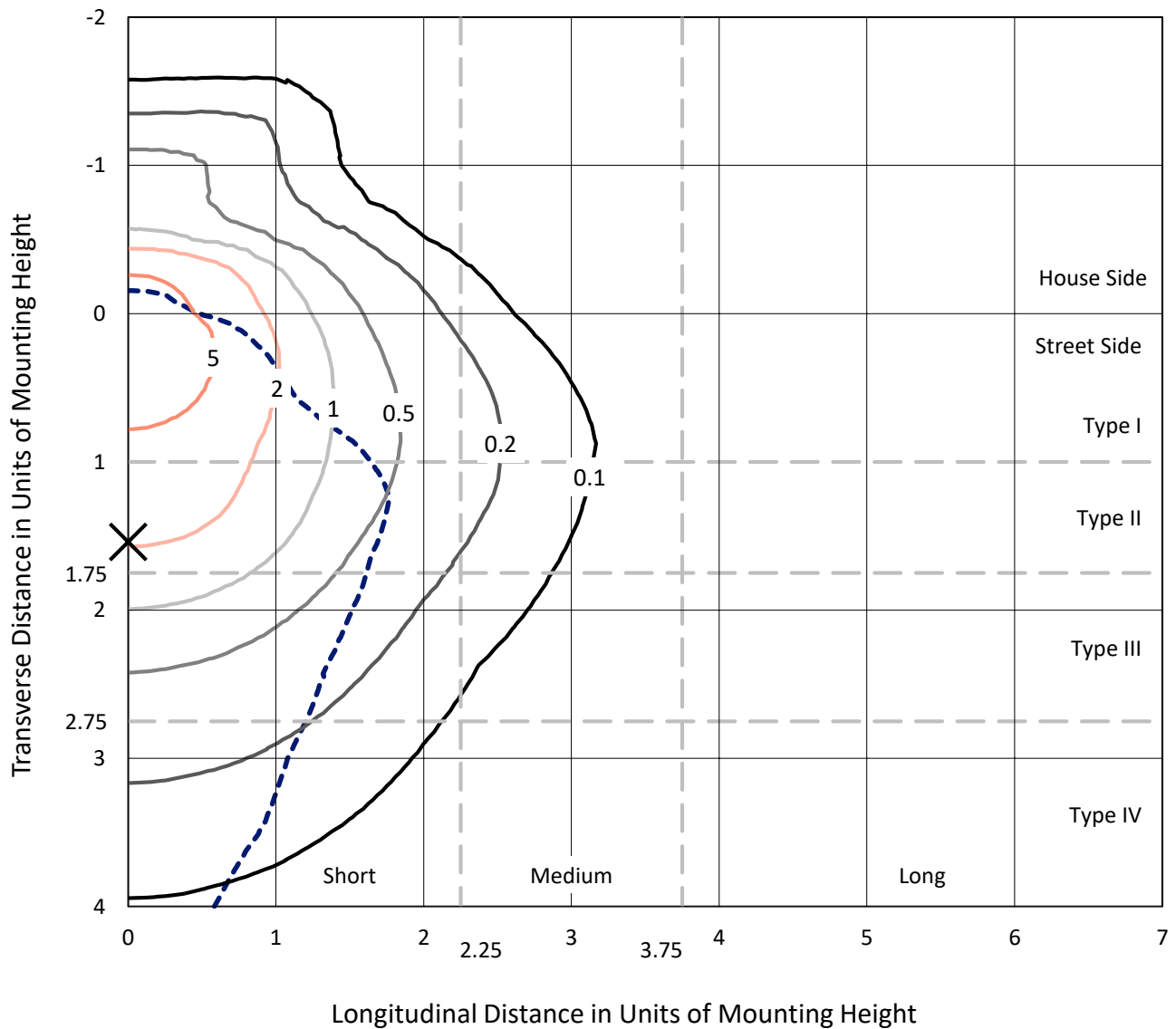
Input Watts (W): 26.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

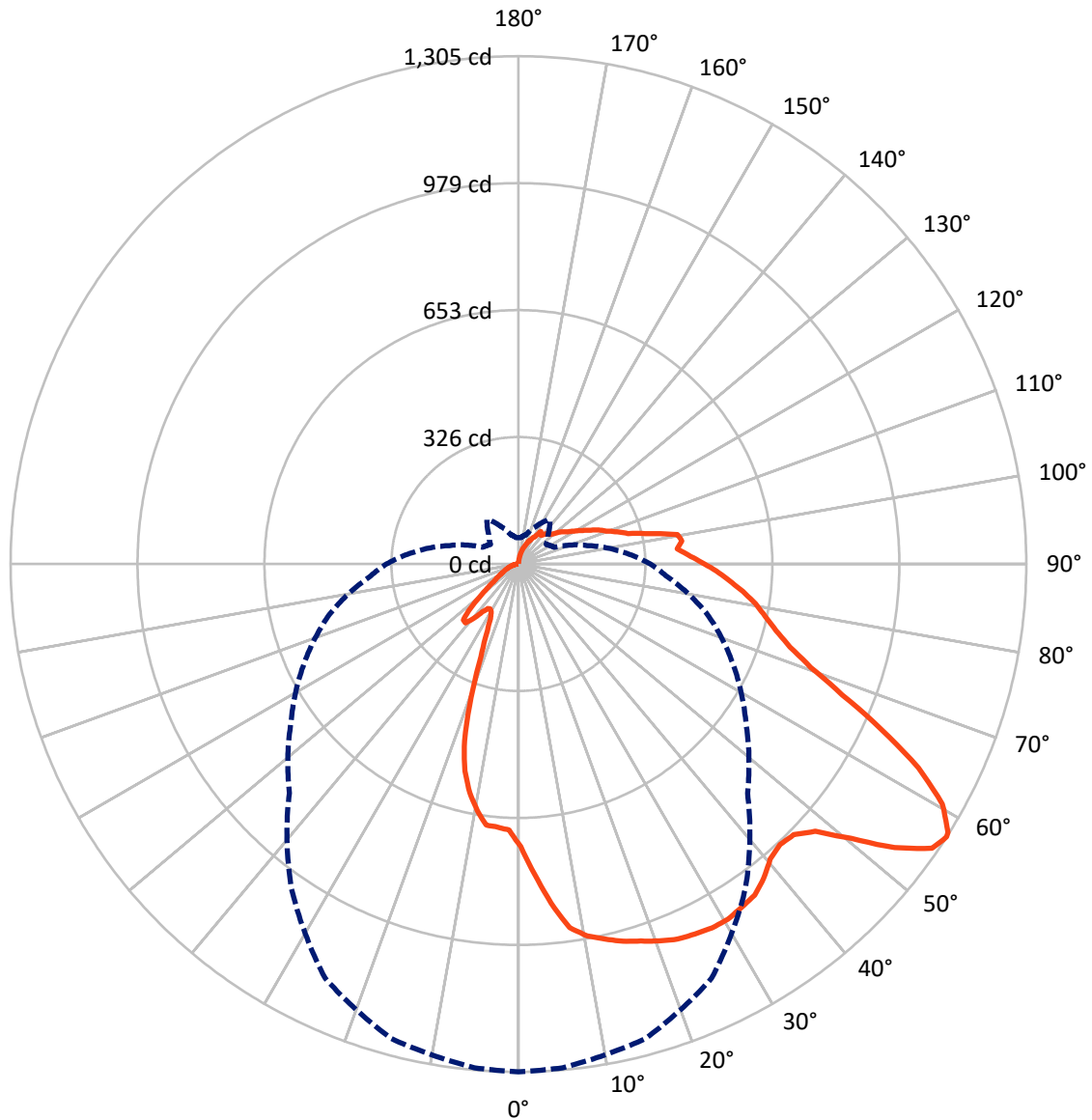
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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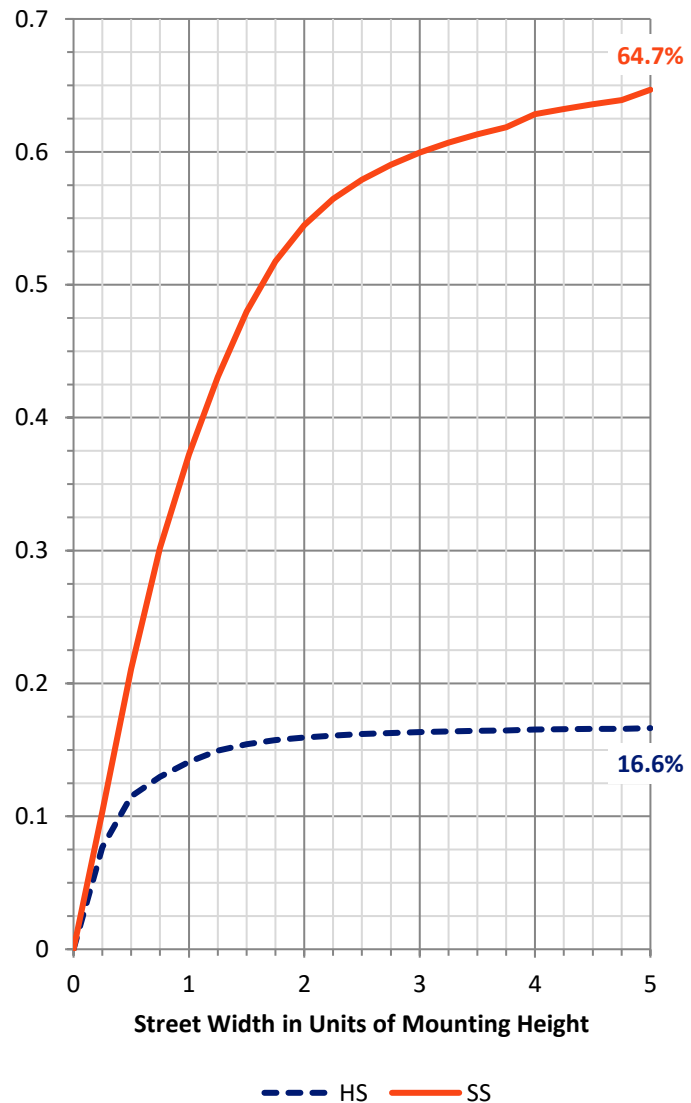
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	531.3	35.7	567.0
	% Fixture	17.0	1.1	18.1
Street Side	Lumens	2147.1	416.0	2563.1
	% Fixture	68.6	13.3	81.9
Total	Lumens	2678.4	451.7	3130.1
	% Fixture	85.6	14.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	2.3
10°-20°	215.3	6.9
20°-30°	311.8	10.0
30°-40°	368.9	11.8
40°-50°	400.9	12.8
50°-60°	444.9	14.2
60°-70°	395.1	12.6
70°-80°	273.4	8.7
80°-90°	195.8	6.3
90°-100°	148.6	4.7
100°-110°	107.8	3.4
110°-120°	74.0	2.4
120°-130°	50.4	1.6
130°-140°	34.1	1.1
140°-150°	21.9	0.7
150°-160°	11.0	0.4
160°-170°	3.6	0.1
170°-180°	0.3	0.0
0°-90°	2678.4	85.6
0°-180°	3130.1	100.0



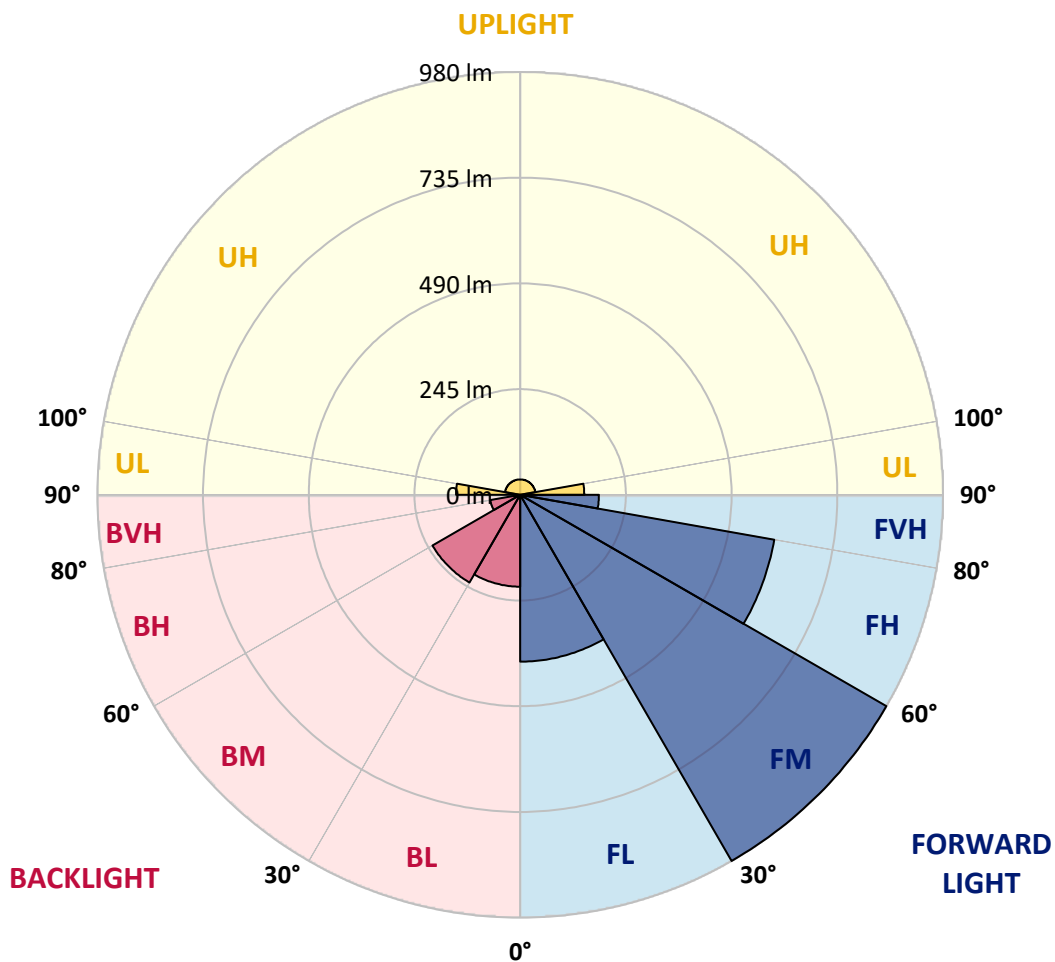
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	386.6	12.4			
FM	(30°-60°)	980.0	31.3			
FH	(60°-80°)	598.0	19.1			G0/660
FVH	(80°-90°)	182.5	5.8			G2/225
BL	(0°-30°)	213.0	6.8	B1/500		
BM	(30°-60°)	234.6	7.5	B1/1000		
BH	(60°-80°)	70.5	2.3	B0/110		G0/110
BVH	(80°-90°)	13.3	0.4			G1/100
UL	(90°-100°)	148.6	4.7		U3/500	
UH	(100°-180°)	35.7	1.1		U2/50	

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°	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1
2.5°	798.5	792.0	792.9	788.2	780.8	774.7	764.9	753.7	742.5	728.0	721.4
5°	875.2	869.1	863.0	853.2	836.4	820.0	805.5	780.8	757.4	731.2	719.1
7.5°	943.4	937.8	933.6	922.3	903.7	877.0	839.6	806.9	771.0	732.6	715.8
10°	971.9	969.5	966.3	959.7	946.2	924.7	885.9	832.6	784.0	733.1	711.1
12.5°	989.2	986.8	984.0	976.1	964.9	948.0	919.5	861.6	793.9	732.2	703.7
15°	1006.0	1004.1	999.0	990.1	975.1	957.9	933.1	884.0	805.1	728.9	696.7
17.5°	1018.6	1017.7	1013.0	1001.8	985.4	964.4	937.8	896.2	815.8	725.6	687.8
20°	1034.0	1033.1	1025.1	1010.7	992.4	968.1	938.2	897.6	822.4	720.0	677.5
22.5°	1047.1	1046.6	1039.2	1024.7	998.5	969.5	936.4	893.8	824.7	713.5	665.4
25°	1053.2	1053.6	1045.7	1031.7	1008.8	969.5	931.2	886.4	820.5	704.6	652.3
27.5°	1059.2	1059.2	1050.8	1034.5	1010.7	973.7	923.7	875.6	810.2	692.9	636.4
30°	1059.7	1061.1	1052.7	1034.5	1007.9	972.3	917.2	863.0	796.2	678.4	620.0
32.5°	1052.2	1053.2	1046.2	1031.7	1002.2	962.5	908.8	845.2	776.6	660.7	599.0
35°	1045.2	1044.3	1036.8	1020.9	993.8	951.3	894.3	824.7	751.8	638.3	577.0
37.5°	1024.2	1024.7	1019.5	1006.9	980.8	935.9	873.8	800.4	723.3	613.0	549.9
40°	996.6	996.6	990.1	980.8	961.6	918.1	851.3	775.2	692.0	584.1	523.3
42.5°	985.4	982.6	970.0	952.7	935.0	895.7	826.6	745.7	658.8	558.8	496.2
45°	992.0	990.6	975.1	941.0	904.6	860.2	793.4	710.2	632.2	530.8	472.4
47.5°	1026.1	1019.5	996.2	954.6	893.8	828.0	754.1	679.8	605.6	497.2	445.8
50°	1108.3	1102.2	1065.3	991.5	908.8	809.7	723.3	654.6	579.4	472.9	414.9
52.5°	1211.1	1205.0	1155.5	1065.3	940.6	808.3	711.1	631.7	552.3	437.3	389.2
55°	1289.6	1280.7	1240.1	1138.7	987.8	820.5	709.7	624.7	528.9	415.4	355.1
57°	1305.0	1299.4	1262.5	1174.7	1017.2	832.6	714.0	608.4	503.2	384.5	339.2
57.5°	1301.7	1295.7	1261.6	1177.5	1020.9	834.0	716.3	608.4	499.0	383.6	336.4
60°	1251.8	1242.9	1217.6	1147.1	1010.2	833.1	714.4	597.6	481.3	356.0	299.0
62.5°	1153.6	1141.0	1111.1	1045.2	939.6	787.3	686.9	588.3	468.2	332.2	274.3
65°	1025.1	1014.4	975.1	921.9	829.4	713.0	654.1	573.8	457.0	311.2	255.6
67.5°	897.1	886.8	855.1	791.0	698.1	620.0	578.5	542.5	442.5	296.7	231.8
70°	796.7	790.6	754.6	684.0	596.7	521.9	508.4	504.6	423.3	281.3	209.8
72.5°	729.8	723.8	686.4	613.5	520.5	448.1	456.5	447.2	409.8	269.6	187.4
75°	683.6	679.4	637.3	562.6	471.0	394.8	388.3	392.5	378.5	253.7	164.5
77.5°	648.1	644.3	600.4	526.1	433.6	354.6	348.1	361.6	350.9	235.5	138.3
80°	617.7	610.7	569.1	495.3	409.8	326.1	315.9	314.0	311.7	199.0	107.9
82.5°	581.3	574.2	534.5	466.8	387.3	309.8	292.0	285.5	255.6	154.7	79.9
85°	543.4	536.4	500.9	439.2	367.3	289.2	272.9	262.6	229.4	114.0	53.7
87.5°	508.8	501.8	467.7	412.1	346.2	275.2	254.2	236.4	193.0	83.2	37.8
90°	470.5	466.8	437.8	386.9	328.5	259.8	240.2	217.3	167.3	67.8	34.6
92.5°	436.9	434.5	409.3	364.5	312.1	251.4	224.7	196.2	144.8	56.1	31.3
95°	409.8	406.0	384.5	346.2	299.5	243.0	219.1	179.9	124.3	48.6	31.8
97.5°	424.3	422.9	401.8	358.4	305.1	245.3	206.1	164.9	108.4	46.3	33.2
100°	415.4	413.0	391.6	347.2	297.6	231.8	188.8	146.7	90.6	47.2	35.5
102.5°	345.3	343.4	331.3	297.2	257.0	204.2	162.6	123.8	84.1	48.6	38.3
105°	292.5	290.6	278.9	257.5	225.2	180.8	146.2	111.2	80.8	50.5	40.2
107.5°	266.8	266.8	257.9	238.3	209.8	170.5	137.4	108.9	77.1	51.9	41.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	241.6	240.6	232.7	217.7	190.6	159.8	132.7	103.7	73.4	52.3	42.1
112.5°	223.8	220.5	214.5	201.4	175.7	150.5	126.6	95.8	70.6	51.9	42.1
115°	201.4	200.0	194.8	184.1	163.1	141.1	117.3	87.8	69.2	50.9	40.7
117.5°	183.2	182.2	177.6	167.3	150.5	132.2	108.4	82.7	67.3	49.1	38.8
120°	166.8	165.4	162.1	151.9	137.4	122.4	100.9	79.4	64.9	46.7	36.9
122.5°	152.3	151.9	149.1	139.7	129.0	114.5	94.4	77.6	62.6	43.9	34.1
125°	142.0	141.6	136.9	128.0	116.8	107.5	91.1	76.2	59.3	40.7	31.3
127.5°	133.6	133.2	129.4	120.5	114.0	100.9	86.0	72.0	55.6	37.4	29.0
130°	120.1	119.1	116.3	113.1	107.5	94.4	84.6	67.8	51.9	34.6	26.6
132.5°	110.7	110.7	112.1	109.8	100.5	89.2	79.9	64.0	48.6	31.8	24.8
135°	110.7	110.7	108.4	103.3	94.4	90.6	75.2	59.3	45.8	29.0	22.4
137.5°	104.2	103.7	101.4	96.3	91.6	86.0	69.6	55.1	42.5	26.6	20.6
140°	95.8	95.3	93.4	92.5	94.9	78.5	64.9	52.3	39.7	24.3	18.7
142.5°	93.9	94.4	100.0	98.6	84.1	72.9	60.3	48.6	36.9	22.0	17.3
145°	101.4	99.5	95.3	85.0	76.6	66.3	57.5	46.7	34.1	19.6	15.4
147.5°	84.1	83.6	81.3	78.0	70.6	63.5	52.8	43.0	30.8	17.3	14.0
150°	79.0	79.0	76.6	70.6	64.9	57.9	48.6	39.2	27.6	15.4	12.6
152.5°	68.7	68.2	66.8	65.9	60.3	51.4	44.9	35.0	24.3	13.1	11.2
155°	64.9	64.9	64.9	58.4	52.3	47.2	40.2	30.8	21.5	11.2	9.8
157.5°	55.6	54.7	53.7	50.9	47.7	42.1	34.6	26.6	18.7	9.3	8.4
160°	49.1	49.5	48.6	45.8	42.1	36.4	29.4	22.4	15.9	7.5	7.0
162.5°	43.0	42.5	42.1	39.7	35.5	30.4	24.3	18.2	13.1	6.1	6.1
165°	36.0	35.5	34.1	32.2	28.5	23.8	18.7	15.0	9.8	5.1	4.7
167.5°	27.6	27.6	26.6	24.3	21.5	17.3	13.6	10.7	6.5	4.2	3.7
170°	20.1	20.1	19.2	16.4	12.6	10.7	9.3	6.5	4.2	3.3	3.3
172.5°	7.9	8.4	7.9	7.9	7.0	5.6	4.7	3.7	2.3	2.3	2.3
175°	0.5	0.5	0.9	1.9	2.3	2.3	2.3	1.9	2.3	2.3	2.3
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°	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1
2.5°	717.2	714.4	708.3	699.0	692.0	688.3	684.5	685.0	682.6	684.0
5°	710.7	701.3	689.2	678.4	673.8	672.8	674.2	677.0	678.0	678.0
7.5°	703.7	688.3	675.2	671.4	673.8	676.1	676.6	678.0	676.1	676.1
10°	695.7	673.8	667.7	670.0	671.4	664.9	653.7	647.6	644.3	642.0
12.5°	685.0	662.1	664.0	664.4	649.9	631.7	615.8	606.5	600.9	600.9
15°	673.3	651.3	656.5	643.9	618.2	593.9	577.5	563.5	552.8	549.5
17.5°	661.2	641.5	645.7	614.4	583.1	553.2	521.0	489.7	477.1	474.3
20°	647.6	630.3	623.8	583.6	544.3	493.9	440.1	392.5	365.9	363.5
22.5°	632.2	616.3	594.8	548.5	493.4	415.8	340.6	287.4	264.0	256.5
25°	615.8	600.9	567.2	509.8	423.8	325.2	246.7	210.3	194.8	196.7
27.5°	598.1	580.8	537.3	461.6	341.6	243.0	190.2	167.7	158.9	157.9
30°	578.9	556.5	502.8	403.2	268.2	189.7	159.3	146.7	142.5	141.6
32.5°	557.4	529.9	463.0	334.5	211.2	158.9	142.5	137.8	136.4	136.0
35°	531.7	497.2	416.3	272.9	171.9	141.6	135.0	136.0	138.3	138.8
37.5°	504.6	462.1	367.3	219.1	148.1	132.2	133.2	143.0	152.8	154.2
40°	475.7	429.4	312.6	179.9	132.7	127.1	138.8	162.1	178.0	182.2
42.5°	455.1	391.1	263.5	151.4	123.4	126.2	152.8	186.4	201.9	203.3
45°	426.6	356.0	220.1	132.7	116.3	130.4	170.5	199.0	201.9	201.9
47.5°	397.6	320.1	183.6	119.1	111.7	138.8	183.6	190.2	174.8	173.3
50°	369.1	279.4	153.3	107.9	109.3	148.6	179.4	156.5	135.0	133.2
52.5°	341.6	244.4	130.8	99.1	108.4	154.2	158.9	121.5	101.9	101.9
55°	313.1	207.5	113.1	92.5	108.4	150.5	131.3	94.4	80.4	78.5
57°	286.0	183.2	101.9	87.4	108.4	140.6	106.5	78.5	68.2	67.3
57.5°	279.9	177.6	100.0	86.4	108.4	137.8	101.9	75.7	64.9	64.5
60°	254.6	149.1	88.8	81.3	107.5	118.7	81.3	61.7	54.2	53.7
62.5°	229.0	128.0	79.9	76.6	103.3	99.5	68.2	52.3	46.3	45.8
65°	207.5	108.4	72.4	72.4	97.2	81.3	56.5	44.9	39.2	38.8
67.5°	184.6	92.0	66.3	67.8	88.3	67.3	47.2	38.3	33.6	33.2
70°	156.5	79.0	60.7	63.1	78.5	56.1	39.7	32.2	28.5	28.0
72.5°	133.6	67.8	56.1	58.4	67.8	46.7	34.1	27.6	23.4	23.4
75°	104.7	58.4	51.4	53.3	57.5	38.3	28.5	22.9	19.2	18.7
77.5°	79.9	50.5	46.7	48.1	48.6	31.3	23.4	19.2	15.4	15.4
80°	57.0	43.5	43.0	43.0	40.2	26.2	20.1	15.4	12.6	12.1
82.5°	43.0	37.4	39.2	38.3	33.2	22.0	16.8	12.6	9.3	8.9
85°	34.1	32.7	35.5	34.1	27.1	18.7	14.0	9.3	6.5	6.1
87.5°	28.0	29.4	32.2	28.5	20.6	13.6	8.9	5.1	2.3	1.9
90°	25.7	27.6	29.0	23.8	16.4	9.8	5.6	2.3	0.5	0.0
92.5°	26.2	27.1	28.0	22.4	15.4	8.9	5.1	2.3	0.5	0.0
95°	27.6	27.6	27.1	22.0	15.0	8.9	5.1	2.3	0.5	0.0
97.5°	29.4	28.0	26.6	21.5	14.5	8.9	4.7	2.3	0.5	0.0
100°	31.3	28.5	26.6	21.0	14.5	8.4	4.7	2.3	0.5	0.0
102.5°	33.2	29.0	26.6	21.0	14.0	8.4	4.7	2.3	0.5	0.0
105°	34.6	29.0	26.2	21.0	14.0	8.4	4.7	2.3	0.5	0.0
107.5°	35.5	29.0	25.7	20.6	14.0	7.9	4.7	2.3	0.5	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	36.0	28.5	24.8	20.1	13.6	7.9	4.2	1.9	0.5	0.0
112.5°	35.5	28.0	23.8	19.2	13.1	7.5	4.2	1.9	0.5	0.0
115°	34.1	27.1	22.9	18.2	12.6	7.5	4.2	1.9	0.5	0.0
117.5°	32.7	25.7	22.0	17.3	12.1	7.0	3.7	1.9	0.5	0.0
120°	31.3	24.3	20.6	16.4	11.2	6.5	3.7	1.9	0.0	0.0
122.5°	29.4	23.4	19.6	15.4	10.7	6.5	3.3	1.4	0.0	0.0
125°	27.6	22.0	18.7	15.0	10.3	6.1	3.3	1.4	0.0	0.0
127.5°	25.7	20.6	17.3	14.0	9.8	5.6	3.3	1.4	0.0	0.0
130°	23.8	19.6	16.4	13.1	9.3	5.1	2.8	1.4	0.0	0.0
132.5°	22.0	18.2	15.0	12.1	8.4	5.1	2.8	1.4	0.0	0.0
135°	20.1	16.8	14.0	11.2	7.9	4.7	2.3	0.9	0.0	0.0
137.5°	18.7	15.9	13.1	10.7	7.5	4.2	2.3	0.9	0.0	0.0
140°	17.3	14.5	12.1	9.8	7.0	3.7	2.3	0.9	0.0	0.0
142.5°	15.9	13.6	11.2	8.9	6.1	3.7	1.9	0.9	0.0	0.0
145°	14.5	12.1	10.3	7.9	5.6	3.3	1.9	0.9	0.0	0.0
147.5°	13.1	11.2	9.3	7.5	4.7	2.8	1.4	0.5	0.0	0.0
150°	11.7	10.3	8.4	6.5	4.2	2.3	1.4	0.5	0.0	0.0
152.5°	10.7	8.9	7.5	5.6	3.7	2.3	0.9	0.5	0.0	0.0
155°	9.3	7.9	6.5	5.1	3.3	1.9	0.9	0.5	0.0	0.0
157.5°	7.9	7.0	5.6	4.2	2.8	1.4	0.5	0.5	0.0	0.0
160°	7.0	6.1	5.1	3.7	2.3	1.4	0.5	0.0	0.0	0.0
162.5°	5.6	5.1	4.2	2.8	1.9	0.9	0.5	0.0	0.0	0.0
165°	4.7	4.2	3.3	2.3	1.4	0.9	0.5	0.0	0.0	0.0
167.5°	3.7	3.3	2.8	1.9	1.4	0.5	0.5	0.0	0.0	0.0
170°	3.3	2.8	2.3	1.4	0.9	0.5	0.5	0.0	0.0	0.0
172.5°	2.3	2.3	1.9	0.9	0.5	0.5	0.0	0.0	0.0	0.0
175°	2.3	1.9	0.9	0.9	0.5	0.5	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)