

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: P232427

Luminaire Tested: **AXCL10ARL-C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29541)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: AXCL10ARL-C
Description: AXCENT RL WALLPACK
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13409.8 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 0.29' x H: 0.38')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U5 - G5

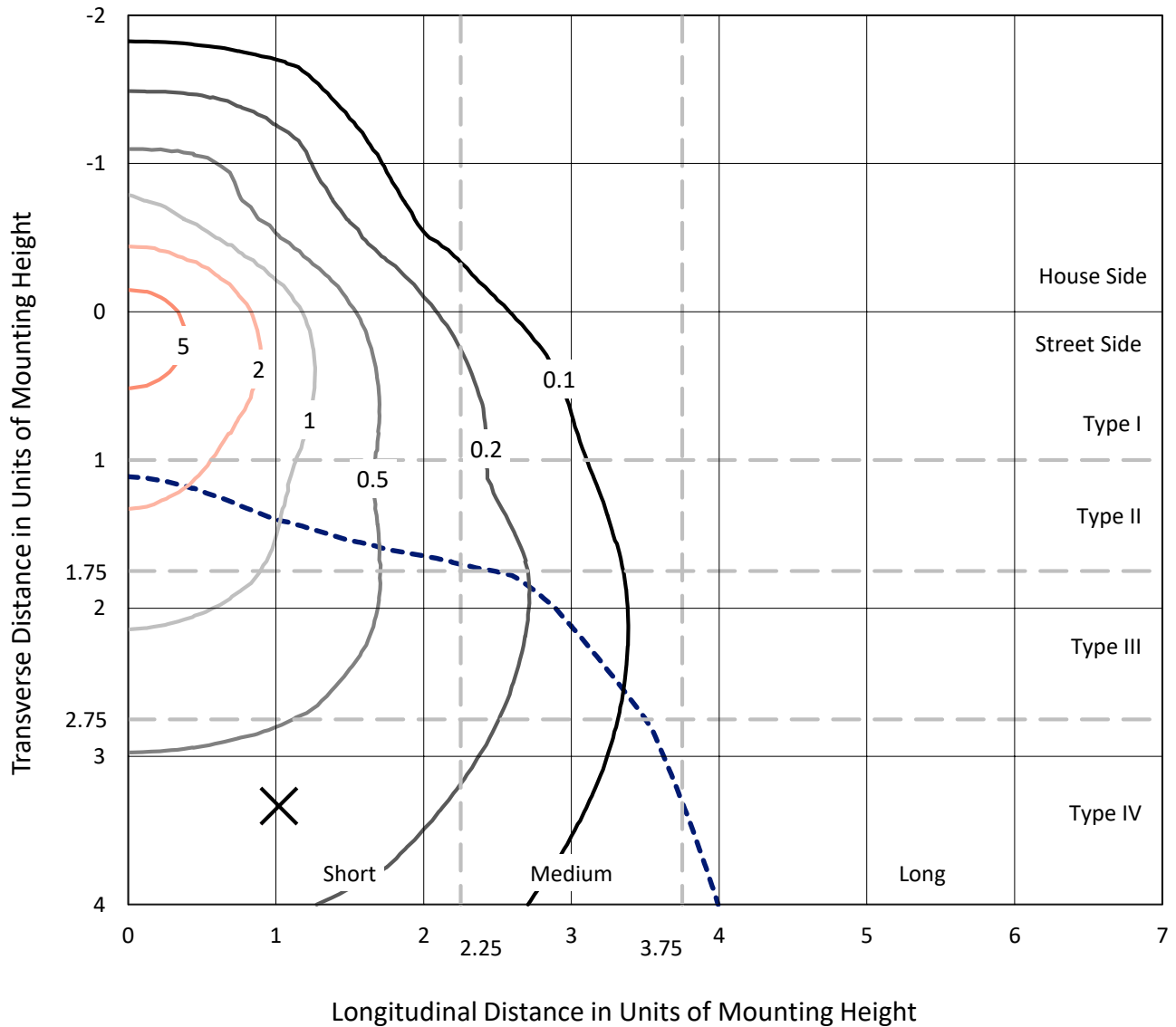
Input Watts (W): 102
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

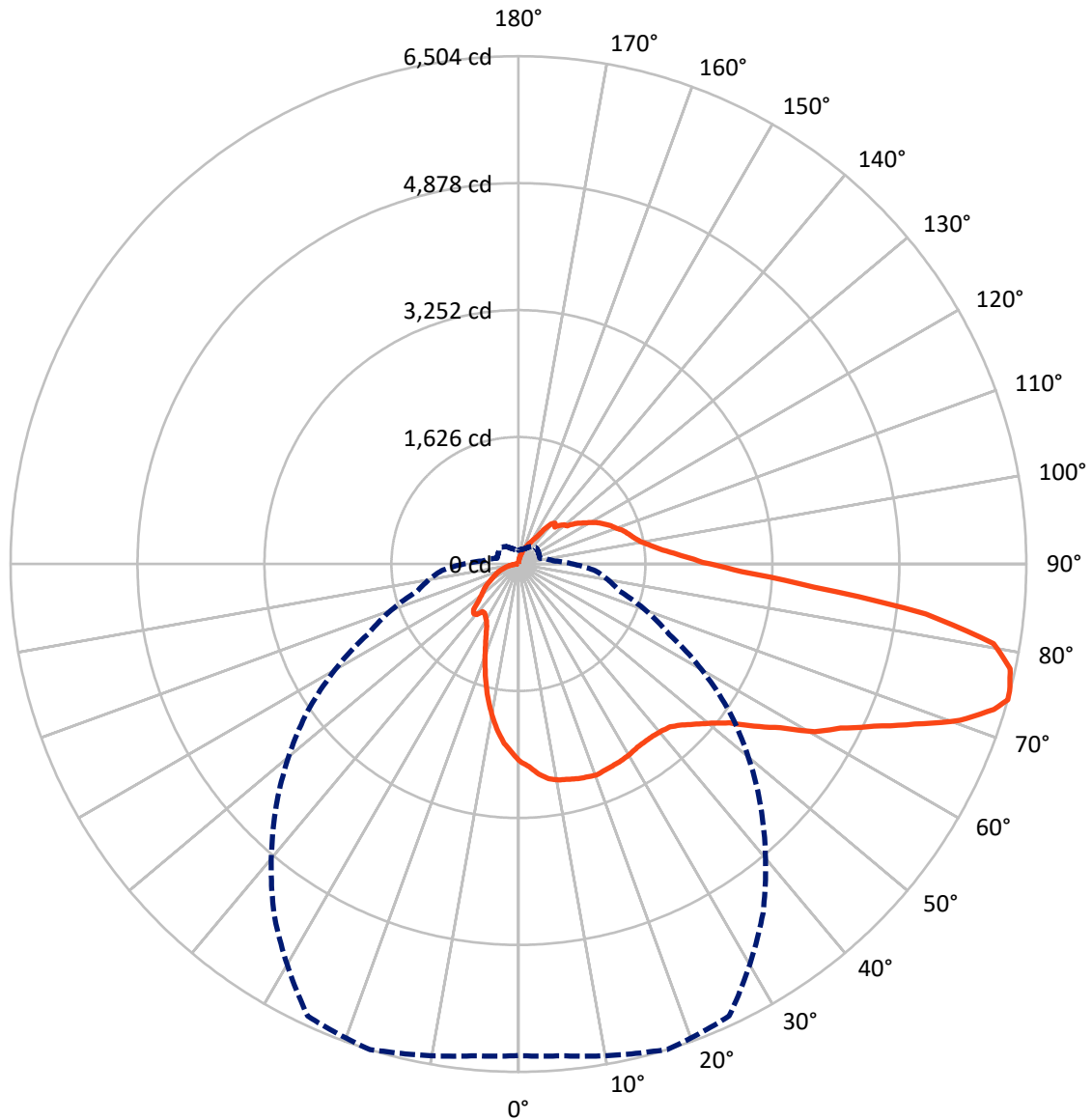
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 17-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2065.5	169.9	2235.4
	% Fixture	15.4	1.3	16.7
Street Side	Lumens	9015.9	2158.6	11174.4
	% Fixture	67.2	16.1	83.3
Total	Lumens	11081.4	2328.5	13409.8
	% Fixture	82.6	17.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.8	1.8
10°-20°	654.3	4.9
20°-30°	932.5	7.0
30°-40°	1113.6	8.3
40°-50°	1280.6	9.5
50°-60°	1475.6	11.0
60°-70°	1848.6	13.8
70°-80°	2206.5	16.5
80°-90°	1331.8	9.9
90°-100°	711.1	5.3
100°-110°	537.9	4.0
110°-120°	419.6	3.1
120°-130°	290.4	2.2
130°-140°	198.6	1.5
140°-150°	109.8	0.8
150°-160°	45.6	0.3
160°-170°	14.2	0.1
170°-180°	1.4	0.0
0°-90°	11081.4	82.6
0°-180°	13409.8	100.0

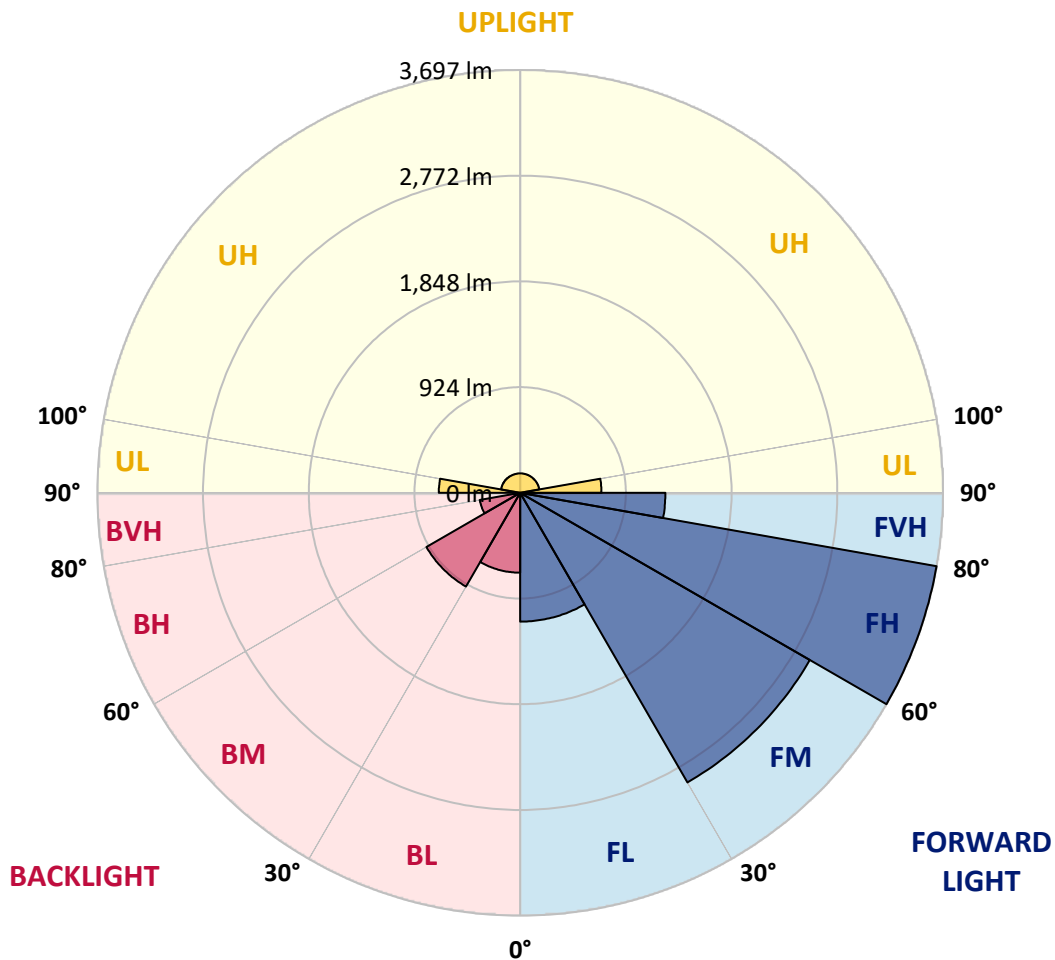


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1126.2	8.4			
FM (30°-60°)	2923.6	21.8			
FH (60°-80°)	3696.6	27.6			G2/5000
FVH (80°-90°)	1269.5	9.5			G5
BL (0°-30°)	698.4	5.2	B2/1000		
BM (30°-60°)	946.2	7.1	B1/1000		
BH (60°-80°)	358.5	2.7	B1/500		G1/500
BVH (80°-90°)	62.3	0.5			G1/100
UL (90°-100°)	711.1	5.3		U4/1000	
UH (100°-180°)	169.9	1.3		U3/500	

BUG Rating: B2-U5-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	17°	25°	35°	45°	55°	65°	75°	85°
0°	2529.1	2529.1	2529.1	2529.1	2529.1	2529.1	2529.1	2529.1	2529.1	2529.1	2529.1
2.5°	2596.9	2593.3	2596.0	2596.9	2596.9	2591.4	2583.2	2574.9	2570.4	2555.7	2543.8
5°	2710.6	2701.4	2702.4	2702.4	2693.2	2673.9	2651.0	2628.1	2607.0	2574.9	2551.1
7.5°	2780.3	2779.4	2775.7	2776.6	2764.7	2743.6	2715.2	2679.4	2630.9	2589.6	2544.7
10°	2814.2	2813.3	2811.4	2812.4	2802.3	2778.4	2745.4	2705.1	2650.1	2584.1	2521.8
12.5°	2835.3	2837.1	2830.7	2828.9	2819.7	2798.6	2772.0	2721.6	2664.8	2574.9	2496.1
15°	2860.0	2860.9	2851.8	2851.8	2842.6	2816.9	2779.4	2739.9	2669.4	2573.1	2472.3
17.5°	2881.1	2882.9	2866.4	2866.4	2847.2	2815.1	2779.4	2732.6	2661.1	2554.8	2435.6
20°	2893.0	2893.0	2881.1	2880.2	2850.9	2805.9	2756.4	2701.4	2634.5	2519.0	2382.4
22.5°	2872.9	2873.8	2861.9	2860.9	2841.7	2796.8	2728.9	2669.4	2598.8	2473.2	2317.4
25°	2867.4	2866.4	2850.9	2849.9	2822.4	2784.9	2712.4	2625.4	2549.3	2424.6	2254.1
27.5°	2858.2	2860.0	2843.5	2840.8	2812.4	2757.4	2693.2	2589.6	2495.2	2374.2	2196.4
30°	2839.9	2840.8	2825.2	2821.5	2785.8	2730.8	2647.4	2544.7	2442.9	2315.5	2125.8
32.5°	2828.9	2829.8	2803.2	2797.7	2759.2	2692.3	2596.9	2501.6	2376.9	2252.3	2055.2
35°	2832.5	2828.9	2799.5	2793.1	2737.2	2660.2	2557.5	2451.2	2323.8	2197.3	1985.5
37.5°	2854.5	2850.9	2805.9	2795.9	2732.6	2620.8	2514.4	2399.9	2266.9	2150.5	1916.8
40°	2873.8	2868.3	2827.0	2815.1	2741.8	2609.8	2474.1	2358.6	2237.6	2086.4	1864.5
42.5°	2949.9	2942.5	2866.4	2848.1	2750.0	2596.0	2431.0	2314.6	2189.9	2041.4	1795.8
45°	3077.3	3063.5	2964.5	2938.9	2790.4	2585.0	2413.6	2287.1	2150.5	1958.9	1731.6
47.5°	3213.9	3202.9	3094.7	3063.5	2883.9	2601.5	2400.8	2268.8	2095.5	1926.9	1675.7
50°	3367.9	3356.0	3240.5	3202.9	2997.5	2651.9	2409.9	2237.6	2043.3	1841.6	1588.6
52.5°	3620.9	3594.3	3427.5	3380.7	3144.2	2743.6	2420.0	2230.3	2008.4	1785.7	1542.8
55°	3907.8	3887.6	3716.2	3663.0	3362.4	2871.9	2442.0	2216.5	1970.9	1735.3	1462.1
57.5°	4250.6	4225.0	4005.9	3955.5	3636.5	3038.8	2527.3	2180.8	1950.7	1672.0	1396.1
60°	4610.0	4583.4	4412.0	4358.8	4013.2	3276.2	2678.5	2178.0	1934.2	1625.3	1325.5
62.5°	4892.3	4863.9	4663.1	4629.2	4361.5	3652.0	2871.9	2230.3	1892.0	1582.2	1258.6
65°	5293.8	5255.3	5055.5	5006.0	4687.0	4015.0	3163.5	2343.9	1841.6	1560.2	1189.8
67.5°	5687.1	5670.6	5504.6	5472.6	5215.9	4528.4	3546.6	2551.1	1814.1	1541.8	1118.3
70°	6080.3	6068.4	5985.9	5997.8	5865.8	5144.4	4112.2	2908.6	1870.0	1535.4	1061.5
72.5°	6236.1	6238.0	6319.6	6366.3	6297.6	5477.1	4431.2	3351.4	2035.0	1420.8	1017.5
74°	6294.8	6321.4	6467.2	6503.8	6386.5	5459.7	4387.2	3299.1	2128.5	1339.3	990.0
75°	6330.6	6363.6	6474.5	6497.4	6336.1	5357.1	4303.8	3191.0	2135.9	1288.8	970.8
77.5°	6376.4	6402.1	6456.2	6437.8	6037.2	4880.4	3892.2	2922.4	1975.4	1179.8	919.4
80°	6281.1	6304.9	6276.5	6170.1	5491.8	4271.7	3234.0	2354.0	1699.5	1021.2	775.5
82.5°	5829.1	5813.6	5481.7	5257.1	4395.5	3234.0	2147.8	1677.5	1388.8	921.3	536.3
85°	4815.3	4729.1	3998.5	3795.0	3178.1	2327.4	1800.4	1482.3	1237.5	891.0	369.4
87.5°	3379.8	3313.8	2962.7	2860.9	2497.0	1973.6	1617.0	1360.3	1118.3	816.8	240.2
90°	2697.8	2665.7	2424.6	2358.6	2144.1	1771.0	1464.8	1226.5	997.3	692.1	195.3
92.5°	2314.6	2289.9	2119.4	2087.3	1919.5	1623.4	1359.4	1130.3	880.9	561.0	176.9
95°	2015.8	1995.6	1861.8	1857.2	1753.6	1516.2	1280.6	1067.0	782.8	451.0	178.8
97.5°	1789.4	1774.7	1700.4	1706.9	1630.8	1419.9	1188.9	1014.8	689.3	379.5	188.8
100°	1636.3	1626.2	1567.5	1585.9	1529.0	1338.3	1132.1	933.2	623.3	330.0	202.6
102.5°	1539.1	1531.8	1489.6	1513.4	1451.1	1285.2	1084.4	866.3	563.8	329.1	220.0
105°	1457.5	1453.8	1431.8	1456.6	1419.9	1229.3	1027.6	801.2	521.6	337.3	234.7
107.5°	1404.3	1403.4	1381.4	1399.8	1332.8	1167.8	956.1	754.4	509.7	345.6	243.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	17°	25°	35°	45°	55°	65°	75°	85°
110°	1302.6	1304.4	1309.0	1323.7	1273.3	1104.6	902.0	703.1	508.8	348.3	244.8
112.5°	1262.3	1260.4	1260.4	1268.7	1196.3	1038.6	876.3	665.5	484.9	347.4	239.3
115°	1205.4	1205.4	1201.8	1200.8	1123.8	970.8	831.4	640.8	466.6	338.3	229.2
117.5°	1143.1	1144.0	1128.4	1129.3	1046.8	929.5	762.7	616.9	447.3	321.8	215.4
120°	1060.6	1057.8	1045.0	1043.2	976.3	862.6	699.4	551.8	417.1	308.9	199.8
122.5°	978.1	979.0	965.3	963.4	904.8	775.5	675.6	517.0	399.7	291.5	186.1
125°	901.1	902.0	897.4	892.8	816.8	735.2	608.7	490.4	378.6	275.0	172.3
127.5°	835.1	837.8	803.9	793.8	762.7	706.8	560.1	448.3	361.2	254.8	157.7
130°	764.5	765.4	770.9	773.7	743.4	626.1	545.4	436.3	344.7	236.5	143.9
132.5°	759.9	759.0	738.8	726.9	664.6	596.8	488.6	412.5	321.8	221.8	131.1
135°	694.8	691.2	669.2	663.7	633.4	574.8	499.6	410.7	316.3	208.1	119.2
137.5°	703.1	700.3	703.1	704.0	663.7	576.6	508.8	410.7	302.5	191.6	108.2
140°	705.8	704.9	672.8	665.5	631.6	590.3	488.6	384.1	272.3	168.7	97.2
142.5°	571.1	575.7	568.3	567.4	560.1	467.5	413.4	313.5	228.3	147.6	88.0
145°	473.9	476.7	444.6	434.5	407.9	393.3	331.8	262.2	197.1	132.0	78.8
147.5°	355.7	357.5	363.9	367.6	363.9	314.4	271.3	231.0	170.5	119.2	69.7
150°	331.8	331.8	314.4	316.3	298.8	275.0	248.4	213.6	155.8	107.3	61.4
152.5°	281.4	281.4	286.9	287.8	264.9	247.5	221.8	183.3	141.2	96.3	54.1
155°	244.8	247.5	241.1	241.1	242.9	219.1	194.3	156.8	124.7	85.3	49.5
157.5°	224.6	228.3	216.3	215.4	209.9	192.5	161.3	137.5	105.4	74.3	46.8
160°	197.1	198.9	190.7	188.8	173.3	154.9	134.8	114.6	88.9	64.2	42.2
162.5°	151.3	154.0	146.7	145.8	136.6	127.4	112.8	92.6	72.4	53.2	36.7
165°	123.8	124.7	121.9	121.9	117.3	100.8	88.0	74.3	57.8	41.3	30.3
167.5°	93.5	95.3	92.6	93.5	88.9	79.8	68.8	55.9	42.2	30.3	23.8
170°	73.3	74.3	72.4	72.4	67.8	58.7	46.8	36.7	28.4	19.3	18.3
172.5°	51.3	52.3	47.7	48.6	40.3	33.9	27.5	22.0	17.4	14.7	14.7
175°	6.4	8.3	15.6	15.6	17.4	15.6	14.7	11.9	11.0	11.9	11.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2529.1	2529.1	2529.1	2529.1	2529.1	2529.1	2529.1	2529.1	2529.1	2529.1	2529.1
2.5°	2537.4	2530.0	2510.8	2492.4	2467.7	2446.6	2428.3	2413.6	2411.8	2402.6	2401.7
5°	2537.4	2523.6	2485.1	2442.9	2403.5	2370.5	2338.4	2310.9	2301.8	2288.0	2285.3
7.5°	2525.4	2502.5	2446.6	2387.9	2323.8	2267.9	2220.2	2176.2	2157.9	2138.6	2133.1
10°	2497.9	2465.9	2388.9	2308.2	2223.9	2144.1	2075.4	2011.2	1981.9	1962.6	1955.3
12.5°	2467.7	2426.4	2332.0	2222.9	2113.9	2010.3	1926.9	1858.1	1809.5	1779.3	1770.1
15°	2435.6	2383.4	2264.2	2134.9	1992.9	1881.9	1767.4	1679.4	1624.4	1590.4	1580.4
17.5°	2390.7	2328.4	2188.1	2030.4	1870.0	1719.7	1595.0	1499.7	1438.3	1402.5	1391.5
20°	2328.4	2253.2	2090.9	1909.4	1720.6	1553.8	1422.7	1326.4	1265.0	1227.4	1214.6
22.5°	2261.4	2174.4	1989.2	1786.6	1578.5	1401.6	1264.1	1170.6	1110.1	1076.2	1078.9
25°	2190.9	2096.4	1891.1	1661.0	1428.2	1257.7	1124.8	1042.3	980.8	953.3	953.3
27.5°	2120.3	2015.8	1790.3	1534.5	1293.4	1128.4	1007.4	932.3	882.8	865.3	865.3
30°	2041.4	1926.9	1676.6	1403.4	1175.2	1015.7	904.8	848.8	827.8	818.6	818.6
32.5°	1954.4	1839.8	1574.9	1278.8	1064.3	915.8	823.2	801.2	790.2	787.4	788.3
35°	1880.1	1753.6	1468.5	1163.3	966.2	830.5	774.6	768.2	763.6	761.8	761.8
37.5°	1811.4	1675.7	1361.3	1065.2	880.0	764.5	741.6	743.4	768.2	812.2	815.8
40°	1736.2	1599.6	1256.8	971.7	803.9	717.8	715.9	743.4	863.5	904.8	903.8
42.5°	1672.0	1518.9	1160.5	892.8	737.0	684.8	690.3	822.3	863.5	854.3	856.2
45°	1589.5	1449.3	1076.2	810.3	678.3	655.4	703.1	824.1	816.8	781.0	781.0
47.5°	1532.7	1355.8	994.6	739.8	632.5	628.8	764.5	772.8	686.6	631.6	630.7
50°	1447.4	1293.4	905.7	673.8	598.6	611.4	724.2	686.6	615.1	579.3	578.4
52.5°	1375.0	1196.3	819.5	617.8	570.2	608.7	670.1	617.8	560.1	540.8	540.8
55°	1307.2	1125.7	740.7	567.4	542.7	625.2	589.4	564.7	518.8	489.5	487.7
57.5°	1210.0	1005.6	656.3	524.3	514.3	578.4	538.1	511.5	463.8	428.1	425.3
60°	1135.8	913.9	574.8	487.7	484.9	519.8	508.8	459.3	403.3	378.6	376.8
62.5°	1046.8	844.3	506.9	451.9	450.1	455.6	470.3	407.0	361.2	341.0	339.2
65°	966.2	752.6	453.8	416.2	417.1	407.0	431.8	359.3	323.6	303.4	303.4
67.5°	884.6	665.5	404.3	377.7	396.9	379.5	395.1	319.9	290.6	271.3	269.5
70°	808.5	581.2	355.7	343.8	363.0	349.3	346.5	281.4	254.8	236.5	234.7
72.5°	739.8	500.5	310.8	308.9	323.6	321.8	297.0	243.8	218.2	201.7	198.0
74°	696.7	452.8	284.2	288.8	302.5	304.3	270.4	220.9	195.3	181.5	176.9
75°	670.1	416.2	265.8	275.0	289.7	291.5	252.1	204.4	180.6	166.8	162.3
77.5°	585.8	319.0	225.5	251.2	264.0	258.5	210.8	165.0	145.8	132.0	128.3
80°	460.2	227.3	188.8	227.3	241.1	217.3	165.9	129.3	109.1	98.1	96.3
82.5°	322.7	158.6	154.0	182.4	199.8	175.1	126.5	95.3	78.8	70.6	68.8
85°	198.9	116.4	125.6	145.8	154.0	129.3	93.5	74.3	57.8	48.6	46.8
87.5°	126.5	96.3	102.7	127.4	117.3	92.6	71.5	54.1	40.3	31.2	30.3
90°	102.7	94.4	95.3	122.8	96.3	72.4	53.2	36.7	18.3	9.2	8.3
92.5°	105.4	102.7	104.5	129.3	94.4	68.8	49.5	33.9	15.6	6.4	5.5
95°	132.0	119.2	120.1	127.4	97.2	69.7	49.5	33.9	15.6	5.5	4.6
97.5°	154.9	138.4	129.3	122.8	98.1	70.6	48.6	32.1	14.7	4.6	3.7
100°	170.5	154.0	129.3	119.2	97.2	69.7	47.7	30.3	13.8	3.7	3.7
102.5°	185.2	165.9	132.9	117.3	96.3	67.8	45.8	28.4	12.8	3.7	2.8
105°	197.1	174.2	138.4	115.5	95.3	66.0	44.0	26.6	11.9	2.8	1.8
107.5°	202.6	176.9	141.2	112.8	95.3	64.2	42.2	24.8	10.1	1.8	0.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	201.7	176.0	139.3	112.8	96.3	63.3	40.3	22.9	9.2	0.9	0.0
112.5°	196.2	171.4	134.8	113.7	92.6	64.2	38.5	22.0	8.3	0.9	0.0
115°	187.9	165.0	129.3	113.7	88.0	63.3	36.7	20.2	6.4	0.0	0.0
117.5°	176.9	156.8	123.8	111.8	83.4	60.5	34.8	18.3	5.5	0.0	0.0
120°	165.9	147.6	118.3	109.1	80.7	56.8	33.9	17.4	4.6	0.0	0.0
122.5°	154.0	138.4	112.8	104.5	78.8	52.3	31.2	15.6	3.7	0.0	0.0
125°	142.1	128.3	106.3	101.8	74.3	48.6	28.4	13.8	2.8	0.0	0.0
127.5°	131.1	118.3	99.0	99.0	67.8	46.8	25.7	11.9	2.8	0.0	0.0
130°	119.2	108.2	92.6	94.4	62.3	44.0	23.8	11.0	1.8	0.0	0.0
132.5°	108.2	98.1	86.2	88.0	56.8	42.2	22.0	9.2	1.8	0.0	0.0
135°	98.1	90.8	79.8	80.7	52.3	40.3	19.3	8.3	1.8	0.0	0.0
137.5°	88.9	83.4	75.2	72.4	47.7	37.6	17.4	6.4	0.9	0.0	0.0
140°	82.5	77.0	73.3	65.1	43.1	34.8	15.6	5.5	0.9	0.0	0.0
142.5°	75.2	71.5	72.4	57.8	39.4	31.2	13.8	4.6	0.9	0.0	0.0
145°	66.9	65.1	68.8	49.5	35.8	28.4	11.9	4.6	0.9	0.0	0.0
147.5°	61.4	60.5	66.0	42.2	32.1	25.7	11.0	3.7	0.9	0.0	0.0
150°	56.8	56.8	59.6	35.8	28.4	22.0	9.2	3.7	0.0	0.0	0.0
152.5°	52.3	54.1	52.3	31.2	24.8	19.3	7.3	3.7	0.0	0.0	0.0
155°	48.6	49.5	44.9	27.5	21.1	15.6	7.3	2.8	0.0	0.0	0.0
157.5°	46.8	46.8	39.4	23.8	17.4	11.9	6.4	2.8	0.0	0.0	0.0
160°	43.1	43.1	33.9	21.1	14.7	10.1	5.5	2.8	0.0	0.0	0.0
162.5°	37.6	36.7	28.4	18.3	12.8	8.3	5.5	2.8	0.0	0.0	0.0
165°	30.3	28.4	22.0	15.6	10.1	7.3	4.6	2.8	0.0	0.0	0.0
167.5°	22.9	22.0	16.5	11.9	8.3	6.4	4.6	2.8	0.0	0.0	0.0
170°	17.4	16.5	12.8	9.2	7.3	6.4	4.6	2.8	0.0	0.0	0.0
172.5°	13.8	13.8	11.0	8.3	7.3	6.4	4.6	1.8	0.0	0.0	0.0
175°	11.9	11.0	9.2	8.3	7.3	4.6	3.7	1.8	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

(END OF REPORT)