

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: P232431

Luminaire Tested: **AXCL12ARL-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232431
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: AXCL12ARL-W
Description: AXCENT RL WALLPACK
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15118.2 lumens
Efficiency: N/A
Efficacy: 122.5 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

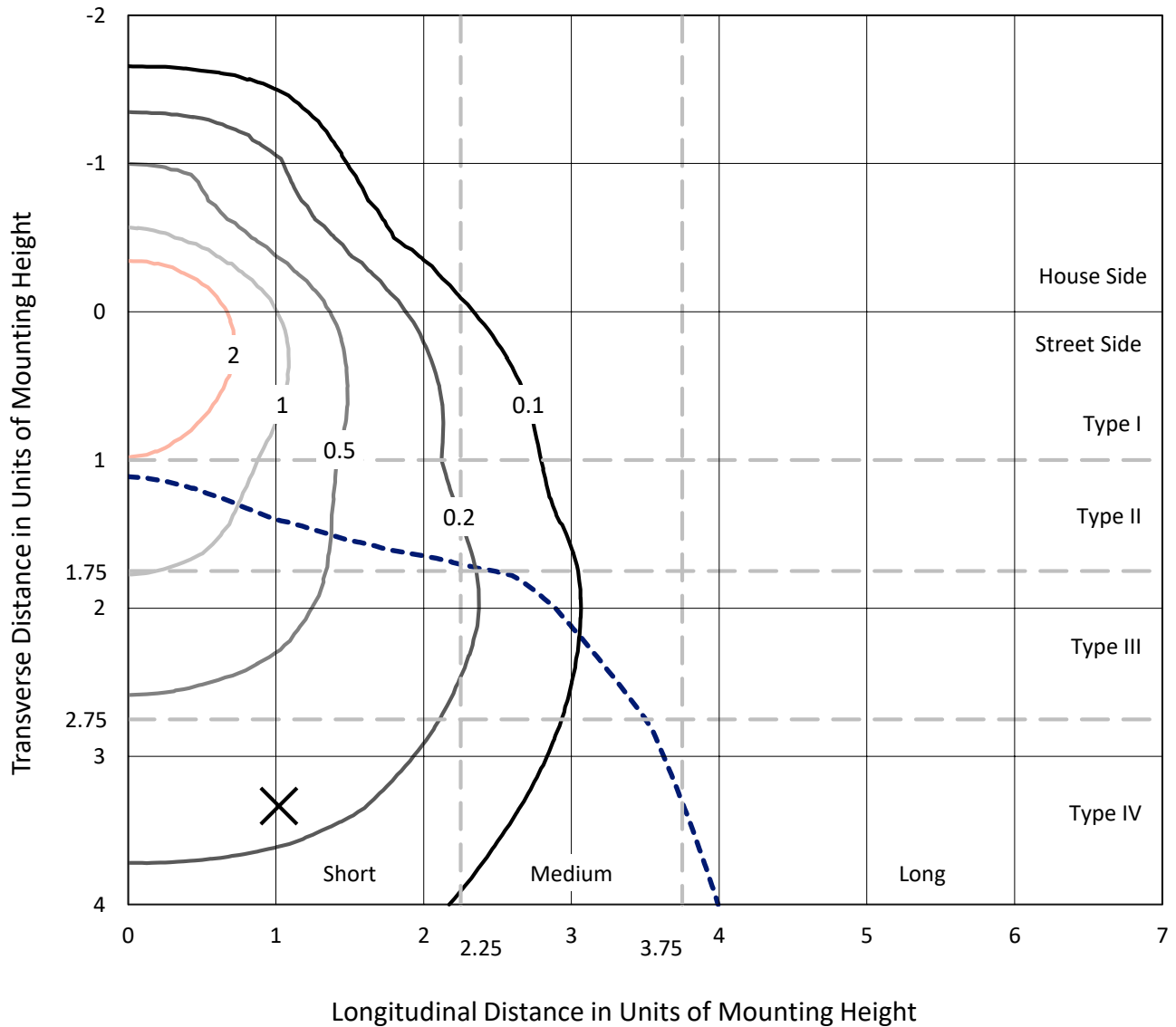
Input Watts (W): 123.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

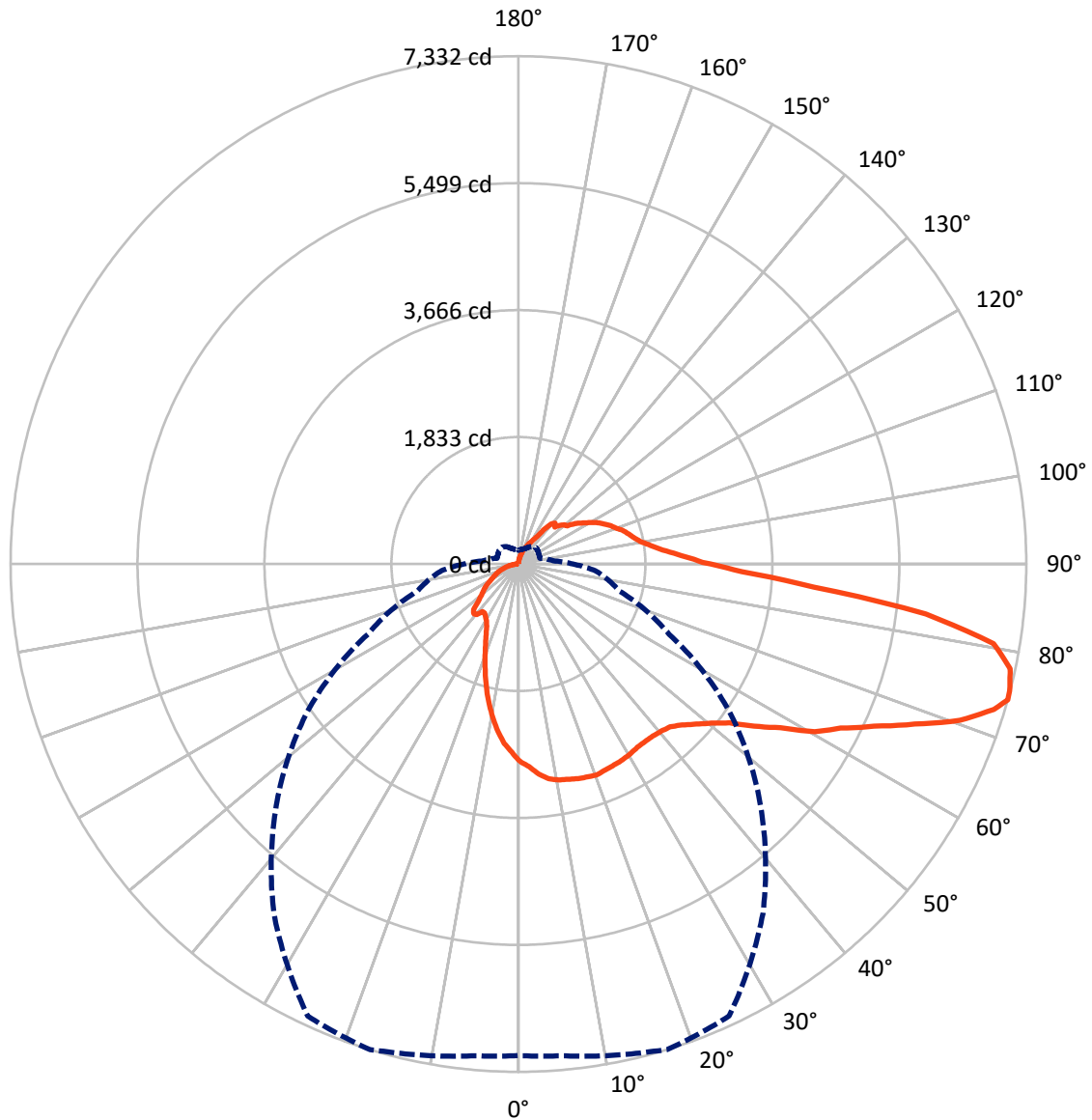
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	2328.6	191.5	2520.1
	% Fixture	15.4	1.3	16.7
Street Side	Lumens	10164.5	2433.6	12598.1
	% Fixture	67.2	16.1	83.3
Total	Lumens	12493.2	2625.1	15118.2
	% Fixture	82.6	17.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.1	1.8
10°-20°	737.7	4.9
20°-30°	1051.3	7.0
30°-40°	1255.5	8.3
40°-50°	1443.8	9.5
50°-60°	1663.6	11.0
60°-70°	2084.1	13.8
70°-80°	2487.7	16.5
80°-90°	1501.5	9.9
90°-100°	801.7	5.3
100°-110°	606.4	4.0
110°-120°	473.1	3.1
120°-130°	327.4	2.2
130°-140°	223.9	1.5
140°-150°	123.8	0.8
150°-160°	51.4	0.3
160°-170°	16.0	0.1
170°-180°	1.6	0.0
0°-90°	12493.2	82.6
0°-180°	15118.2	100.0

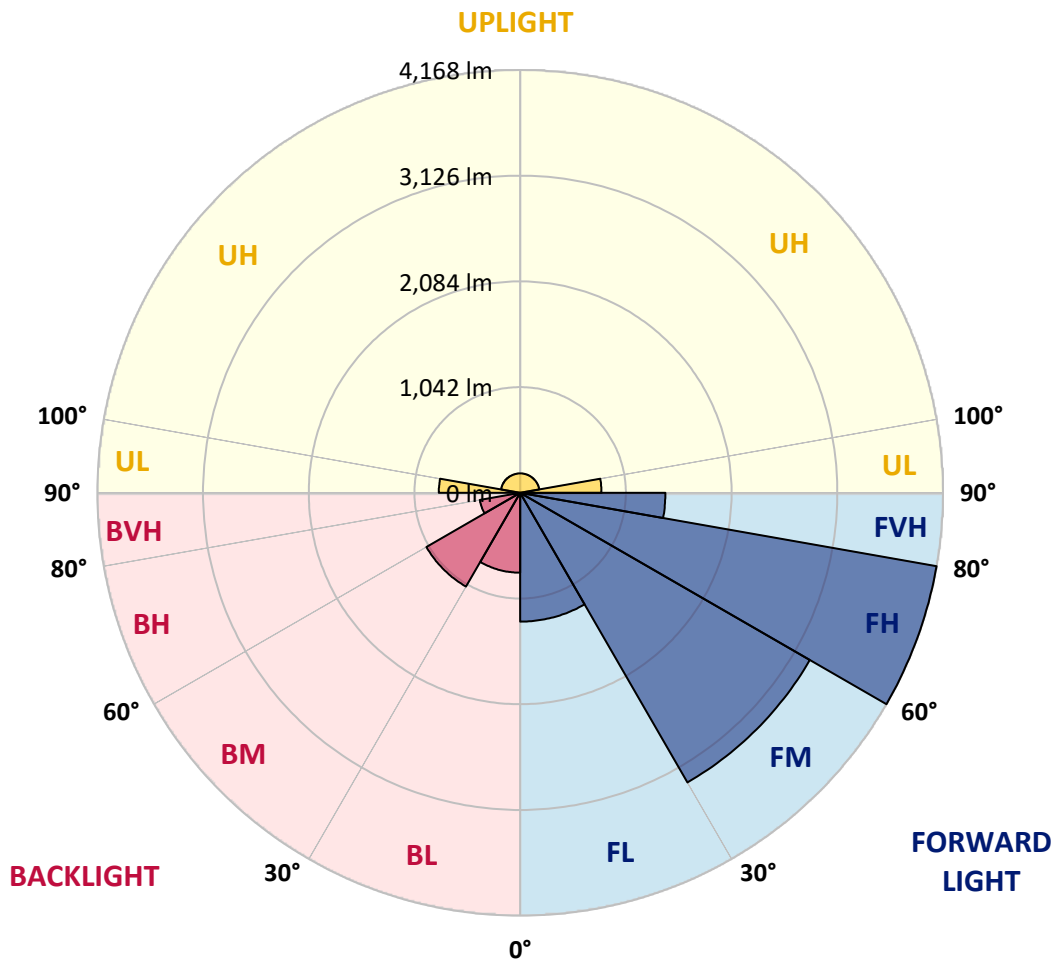


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1269.6	8.4			
FM (30°-60°)	3296.1	21.8			
FH (60°-80°)	4167.6	27.6			G2/5000
FVH (80°-90°)	1431.2	9.5			G5
BL (0°-30°)	787.4	5.2	B2/1000		
BM (30°-60°)	1066.8	7.1	B2/2500		
BH (60°-80°)	404.2	2.7	B1/500		G1/500
BVH (80°-90°)	70.3	0.5			G1/100
UL (90°-100°)	801.7	5.3		U4/1000	
UH (100°-180°)	191.5	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°	2851.3	2851.3	2851.3	2851.3	2851.3	2851.3	2851.3	2851.3	2851.3	2851.3	2851.3
2.5°	2927.8	2923.7	2926.8	2927.8	2927.8	2921.6	2912.3	2903.0	2897.8	2881.3	2867.9
5°	3056.0	3045.6	3046.7	3046.7	3036.3	3014.6	2988.8	2962.9	2939.2	2903.0	2876.1
7.5°	3134.5	3133.5	3129.3	3130.4	3116.9	3093.2	3061.1	3020.8	2966.0	2919.5	2868.9
10°	3172.7	3171.7	3169.6	3170.7	3159.3	3132.4	3095.2	3049.8	2987.7	2913.3	2843.1
12.5°	3196.5	3198.6	3191.3	3189.3	3178.9	3155.2	3125.2	3068.4	3004.3	2903.0	2814.1
15°	3224.4	3225.4	3215.1	3215.1	3204.8	3175.8	3133.5	3089.0	3009.4	2900.9	2787.3
17.5°	3248.2	3250.2	3231.6	3231.6	3209.9	3173.8	3133.5	3080.8	3000.1	2880.3	2745.9
20°	3261.6	3261.6	3248.2	3247.1	3214.1	3163.4	3107.6	3045.6	2970.2	2840.0	2686.0
22.5°	3238.9	3239.9	3226.5	3225.4	3203.7	3153.1	3076.6	3009.4	2929.9	2788.3	2612.6
25°	3232.7	3231.6	3214.1	3213.0	3182.0	3139.7	3058.0	2959.8	2874.1	2733.5	2541.3
27.5°	3222.3	3224.4	3205.8	3202.7	3170.7	3108.7	3036.3	2919.5	2813.1	2676.7	2476.2
30°	3201.7	3202.7	3185.1	3181.0	3140.7	3078.7	2984.6	2868.9	2754.2	2610.5	2396.6
32.5°	3189.3	3190.3	3160.3	3154.1	3110.7	3035.3	2927.8	2820.3	2679.8	2539.2	2317.0
35°	3193.4	3189.3	3156.2	3149.0	3085.9	2999.1	2883.4	2763.5	2619.8	2477.2	2238.5
37.5°	3218.2	3214.1	3163.4	3152.1	3080.8	2954.7	2834.8	2705.6	2555.8	2424.5	2161.0
40°	3239.9	3233.7	3187.2	3173.8	3091.1	2942.3	2789.3	2659.1	2522.7	2352.2	2102.1
42.5°	3325.7	3317.4	3231.6	3211.0	3100.4	2926.8	2740.7	2609.5	2468.9	2301.5	2024.6
45°	3469.3	3453.8	3342.2	3313.3	3145.9	2914.4	2721.1	2578.5	2424.5	2208.5	1952.2
47.5°	3623.3	3610.9	3489.0	3453.8	3251.3	2933.0	2706.6	2557.8	2362.5	2172.3	1889.2
50°	3796.9	3783.5	3653.3	3610.9	3379.4	2989.8	2717.0	2522.7	2303.6	2076.2	1791.0
52.5°	4082.2	4052.2	3864.1	3811.4	3544.8	3093.2	2728.3	2514.4	2264.3	2013.2	1739.3
55°	4405.7	4382.9	4189.7	4129.7	3790.7	3237.8	2753.2	2498.9	2221.9	1956.3	1648.4
57.5°	4792.2	4763.2	4516.2	4459.4	4099.8	3425.9	2849.3	2458.6	2199.2	1885.0	1574.0
60°	5197.3	5167.3	4974.1	4914.1	4524.5	3693.6	3019.8	2455.5	2180.6	1832.3	1494.4
62.5°	5515.6	5483.6	5257.2	5219.0	4917.2	4117.3	3237.8	2514.4	2133.1	1783.8	1418.9
65°	5968.3	5924.9	5699.6	5643.8	5284.1	4526.6	3566.5	2642.6	2076.2	1759.0	1341.4
67.5°	6411.6	6393.0	6206.0	6169.8	5880.4	5105.3	3998.5	2876.1	2045.2	1738.3	1260.8
70°	6855.0	6841.5	6748.5	6762.0	6613.1	5799.8	4636.1	3279.2	2108.3	1731.1	1196.8
72.5°	7030.7	7032.7	7124.7	7177.4	7099.9	6175.0	4995.8	3778.3	2294.3	1601.9	1147.1
74°	7096.8	7126.8	7291.1	7332.4	7200.1	6155.3	4946.2	3719.4	2399.7	1509.9	1116.1
75°	7137.1	7174.3	7299.4	7325.2	7143.3	6039.6	4852.1	3597.5	2408.0	1453.1	1094.4
77.5°	7188.8	7217.7	7278.7	7258.0	6806.4	5502.2	4388.1	3294.7	2227.1	1330.1	1036.6
80°	7081.3	7108.2	7076.1	6956.3	6191.5	4815.9	3646.1	2653.9	1916.0	1151.3	874.3
82.5°	6571.8	6554.2	6180.1	5926.9	4955.5	3646.1	2421.4	1891.2	1565.7	1038.6	604.6
85°	5428.8	5331.6	4508.0	4278.5	3583.0	2624.0	2029.7	1671.1	1395.2	1004.5	416.5
87.5°	3810.4	3736.0	3340.2	3225.4	2815.2	2225.0	1823.0	1533.7	1260.8	920.8	270.8
90°	3041.5	3005.3	2733.5	2659.1	2417.3	1996.7	1651.5	1382.8	1124.4	780.3	220.1
92.5°	2609.5	2581.6	2389.4	2353.2	2164.1	1830.3	1532.6	1274.3	993.2	632.5	199.5
95°	2272.6	2249.9	2099.0	2093.8	1977.0	1709.4	1443.8	1203.0	882.6	508.5	201.5
97.5°	2017.3	2000.8	1917.1	1924.3	1838.5	1600.8	1340.4	1144.0	777.2	427.9	212.9
100°	1844.7	1833.4	1767.2	1787.9	1723.8	1508.9	1276.3	1052.1	702.8	372.0	228.4
102.5°	1735.2	1726.9	1679.4	1706.3	1636.0	1448.9	1222.6	976.6	635.6	371.0	248.0
105°	1643.2	1639.1	1614.3	1642.2	1600.8	1385.9	1158.5	903.2	588.0	380.3	264.6
107.5°	1583.3	1582.2	1557.4	1578.1	1502.7	1316.6	1077.9	850.5	574.6	389.6	274.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	17°	25°	35°	45°	55°	65°	75°	85°
110°	1468.6	1470.6	1475.8	1492.3	1435.5	1245.3	1016.9	792.7	573.6	392.7	275.9
112.5°	1423.1	1421.0	1421.0	1430.3	1348.7	1170.9	988.0	750.3	546.7	391.7	269.7
115°	1359.0	1359.0	1354.9	1353.8	1267.0	1094.4	937.4	722.4	526.0	381.3	258.4
117.5°	1288.7	1289.8	1272.2	1273.2	1180.2	1047.9	859.8	695.5	504.3	362.7	242.9
120°	1195.7	1192.6	1178.1	1176.1	1100.6	972.5	788.5	622.1	470.2	348.3	225.3
122.5°	1102.7	1103.7	1088.2	1086.2	1020.0	874.3	761.7	582.9	450.6	328.6	209.8
125°	1015.9	1016.9	1011.8	1006.6	920.8	828.8	686.2	552.9	426.8	310.0	194.3
127.5°	941.5	944.6	906.3	895.0	859.8	796.8	631.4	505.4	407.2	287.3	177.8
130°	861.9	862.9	869.1	872.2	838.1	705.9	614.9	491.9	388.6	266.6	162.3
132.5°	856.7	855.7	833.0	819.5	749.3	672.8	550.8	465.1	362.7	250.1	147.8
135°	783.4	779.2	754.4	748.2	714.1	648.0	563.2	463.0	356.5	234.6	134.4
137.5°	792.7	789.6	792.7	793.7	748.2	650.0	573.6	463.0	341.0	216.0	121.9
140°	795.8	794.7	758.6	750.3	712.1	665.6	550.8	433.0	306.9	190.2	109.5
142.5°	643.8	649.0	640.7	639.7	631.4	527.1	466.1	353.4	257.3	166.4	99.2
145°	534.3	537.4	501.2	489.9	459.9	443.4	374.1	295.6	222.2	148.8	88.9
147.5°	401.0	403.1	410.3	414.4	410.3	354.5	305.9	260.4	192.2	134.4	78.5
150°	374.1	374.1	354.5	356.5	336.9	310.0	280.1	240.8	175.7	120.9	69.2
152.5°	317.3	317.3	323.5	324.5	298.7	279.0	250.1	206.7	159.2	108.5	61.0
155°	275.9	279.0	271.8	271.8	273.9	247.0	219.1	176.7	140.6	96.1	55.8
157.5°	253.2	257.3	243.9	242.9	236.7	217.0	181.9	155.0	118.8	83.7	52.7
160°	222.2	224.3	215.0	212.9	195.3	174.7	151.9	129.2	100.2	72.3	47.5
162.5°	170.5	173.6	165.4	164.3	154.0	143.7	127.1	104.4	81.6	59.9	41.3
165°	139.5	140.6	137.5	137.5	132.3	113.7	99.2	83.7	65.1	46.5	34.1
167.5°	105.4	107.5	104.4	105.4	100.2	89.9	77.5	63.0	47.5	34.1	26.9
170°	82.7	83.7	81.6	81.6	76.5	66.1	52.7	41.3	32.0	21.7	20.7
172.5°	57.9	58.9	53.7	54.8	45.5	38.2	31.0	24.8	19.6	16.5	16.5
175°	7.2	9.3	17.6	17.6	19.6	17.6	16.5	13.4	12.4	13.4	13.4
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°	2851.3	2851.3	2851.3	2851.3	2851.3	2851.3	2851.3	2851.3	2851.3	2851.3	2851.3
2.5°	2860.6	2852.4	2830.7	2810.0	2782.1	2758.3	2737.6	2721.1	2719.0	2708.7	2707.7
5°	2860.6	2845.1	2801.7	2754.2	2709.7	2672.5	2636.4	2605.4	2595.0	2579.5	2576.4
7.5°	2847.2	2821.4	2758.3	2692.2	2619.8	2556.8	2503.1	2453.4	2432.8	2411.1	2404.9
10°	2816.2	2780.0	2693.2	2602.3	2507.2	2417.3	2339.8	2267.4	2234.4	2212.6	2204.4
12.5°	2782.1	2735.6	2629.1	2506.2	2383.2	2266.4	2172.3	2094.8	2040.1	2006.0	1995.6
15°	2745.9	2687.0	2552.7	2406.9	2246.8	2121.7	1992.5	1893.3	1831.3	1793.1	1781.7
17.5°	2695.3	2625.0	2466.9	2289.1	2108.3	1938.8	1798.2	1690.7	1621.5	1581.2	1568.8
20°	2625.0	2540.3	2357.3	2152.7	1939.8	1751.7	1603.9	1495.4	1426.2	1383.8	1369.3
22.5°	2549.6	2451.4	2242.6	2014.2	1779.6	1580.2	1425.1	1319.7	1251.5	1213.3	1216.4
25°	2470.0	2363.5	2132.0	1872.6	1610.1	1417.9	1268.1	1175.0	1105.8	1074.8	1074.8
27.5°	2390.4	2272.6	2018.4	1730.0	1458.2	1272.2	1135.8	1051.0	995.2	975.6	975.6
30°	2301.5	2172.3	1890.2	1582.2	1324.9	1145.1	1020.0	957.0	933.2	922.9	922.9
32.5°	2203.3	2074.2	1775.5	1441.7	1199.9	1032.4	928.1	903.2	890.8	887.7	888.8
35°	2119.6	1977.0	1655.6	1311.5	1089.3	936.3	873.3	866.0	860.9	858.8	858.8
37.5°	2042.1	1889.2	1534.7	1200.9	992.1	861.9	836.1	838.1	866.0	915.6	919.8
40°	1957.4	1803.4	1416.9	1095.5	906.3	809.2	807.1	838.1	973.5	1020.0	1019.0
42.5°	1885.0	1712.5	1308.4	1006.6	830.9	772.0	778.2	927.0	973.5	963.2	965.3
45°	1792.0	1633.9	1213.3	913.6	764.8	738.9	792.7	929.1	920.8	880.5	880.5
47.5°	1728.0	1528.5	1121.3	834.0	713.1	709.0	861.9	871.2	774.1	712.1	711.0
50°	1631.8	1458.2	1021.1	759.6	674.9	689.3	816.4	774.1	693.5	653.1	652.1
52.5°	1550.2	1348.7	923.9	696.6	642.8	686.2	755.5	696.6	631.4	609.7	609.7
55°	1473.7	1269.1	835.0	639.7	611.8	704.8	664.5	636.6	584.9	551.9	549.8
57.5°	1364.2	1133.7	740.0	591.1	579.8	652.1	606.6	576.7	522.9	482.6	479.5
60°	1280.5	1030.4	648.0	549.8	546.7	586.0	573.6	517.8	454.7	426.8	424.8
62.5°	1180.2	951.8	571.5	509.5	507.4	513.6	530.2	458.9	407.2	384.4	382.4
65°	1089.3	848.5	511.6	469.2	470.2	458.9	486.8	405.1	364.8	342.1	342.1
67.5°	997.3	750.3	455.8	425.8	447.5	427.9	445.4	360.7	327.6	305.9	303.8
70°	911.5	655.2	401.0	387.5	409.3	393.8	390.6	317.3	287.3	266.6	264.6
72.5°	834.0	564.3	350.3	348.3	364.8	362.7	334.8	274.9	246.0	227.4	223.2
74°	785.4	510.5	320.4	325.5	341.0	343.1	304.9	249.1	220.1	204.6	199.5
75°	755.5	469.2	299.7	310.0	326.6	328.6	284.2	230.5	203.6	188.1	182.9
77.5°	660.4	359.6	254.2	283.2	297.6	291.4	237.7	186.0	164.3	148.8	144.7
80°	518.8	256.3	212.9	256.3	271.8	244.9	187.1	145.7	123.0	110.6	108.5
82.5°	363.8	178.8	173.6	205.7	225.3	197.4	142.6	107.5	88.9	79.6	77.5
85°	224.3	131.3	141.6	164.3	173.6	145.7	105.4	83.7	65.1	54.8	52.7
87.5°	142.6	108.5	115.7	143.7	132.3	104.4	80.6	61.0	45.5	35.1	34.1
90°	115.7	106.4	107.5	138.5	108.5	81.6	59.9	41.3	20.7	10.3	9.3
92.5°	118.8	115.7	117.8	145.7	106.4	77.5	55.8	38.2	17.6	7.2	6.2
95°	148.8	134.4	135.4	143.7	109.5	78.5	55.8	38.2	17.6	6.2	5.2
97.5°	174.7	156.1	145.7	138.5	110.6	79.6	54.8	36.2	16.5	5.2	4.1
100°	192.2	173.6	145.7	134.4	109.5	78.5	53.7	34.1	15.5	4.1	4.1
102.5°	208.8	187.1	149.9	132.3	108.5	76.5	51.7	32.0	14.5	4.1	3.1
105°	222.2	196.4	156.1	130.2	107.5	74.4	49.6	30.0	13.4	3.1	2.1
107.5°	228.4	199.5	159.2	127.1	107.5	72.3	47.5	27.9	11.4	2.1	1.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	227.4	198.4	157.1	127.1	108.5	71.3	45.5	25.8	10.3	1.0	0.0
112.5°	221.2	193.3	151.9	128.1	104.4	72.3	43.4	24.8	9.3	1.0	0.0
115°	211.9	186.0	145.7	128.1	99.2	71.3	41.3	22.7	7.2	0.0	0.0
117.5°	199.5	176.7	139.5	126.1	94.0	68.2	39.3	20.7	6.2	0.0	0.0
120°	187.1	166.4	133.3	123.0	90.9	64.1	38.2	19.6	5.2	0.0	0.0
122.5°	173.6	156.1	127.1	117.8	88.9	58.9	35.1	17.6	4.1	0.0	0.0
125°	160.2	144.7	119.9	114.7	83.7	54.8	32.0	15.5	3.1	0.0	0.0
127.5°	147.8	133.3	111.6	111.6	76.5	52.7	28.9	13.4	3.1	0.0	0.0
130°	134.4	121.9	104.4	106.4	70.3	49.6	26.9	12.4	2.1	0.0	0.0
132.5°	121.9	110.6	97.1	99.2	64.1	47.5	24.8	10.3	2.1	0.0	0.0
135°	110.6	102.3	89.9	90.9	58.9	45.5	21.7	9.3	2.1	0.0	0.0
137.5°	100.2	94.0	84.7	81.6	53.7	42.4	19.6	7.2	1.0	0.0	0.0
140°	93.0	86.8	82.7	73.4	48.6	39.3	17.6	6.2	1.0	0.0	0.0
142.5°	84.7	80.6	81.6	65.1	44.4	35.1	15.5	5.2	1.0	0.0	0.0
145°	75.4	73.4	77.5	55.8	40.3	32.0	13.4	5.2	1.0	0.0	0.0
147.5°	69.2	68.2	74.4	47.5	36.2	28.9	12.4	4.1	1.0	0.0	0.0
150°	64.1	64.1	67.2	40.3	32.0	24.8	10.3	4.1	0.0	0.0	0.0
152.5°	58.9	61.0	58.9	35.1	27.9	21.7	8.3	4.1	0.0	0.0	0.0
155°	54.8	55.8	50.6	31.0	23.8	17.6	8.3	3.1	0.0	0.0	0.0
157.5°	52.7	52.7	44.4	26.9	19.6	13.4	7.2	3.1	0.0	0.0	0.0
160°	48.6	48.6	38.2	23.8	16.5	11.4	6.2	3.1	0.0	0.0	0.0
162.5°	42.4	41.3	32.0	20.7	14.5	9.3	6.2	3.1	0.0	0.0	0.0
165°	34.1	32.0	24.8	17.6	11.4	8.3	5.2	3.1	0.0	0.0	0.0
167.5°	25.8	24.8	18.6	13.4	9.3	7.2	5.2	3.1	0.0	0.0	0.0
170°	19.6	18.6	14.5	10.3	8.3	7.2	5.2	3.1	0.0	0.0	0.0
172.5°	15.5	15.5	12.4	9.3	8.3	7.2	5.2	2.1	0.0	0.0	0.0
175°	13.4	12.4	10.3	9.3	8.3	5.2	4.1	2.1	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)