

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: P232426

Luminaire Tested: **AXCL10ARL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232426
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
Description: AXCENT RL WALLPACK
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13641 lumens
Efficiency: N/A
Efficacy: 133.7 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

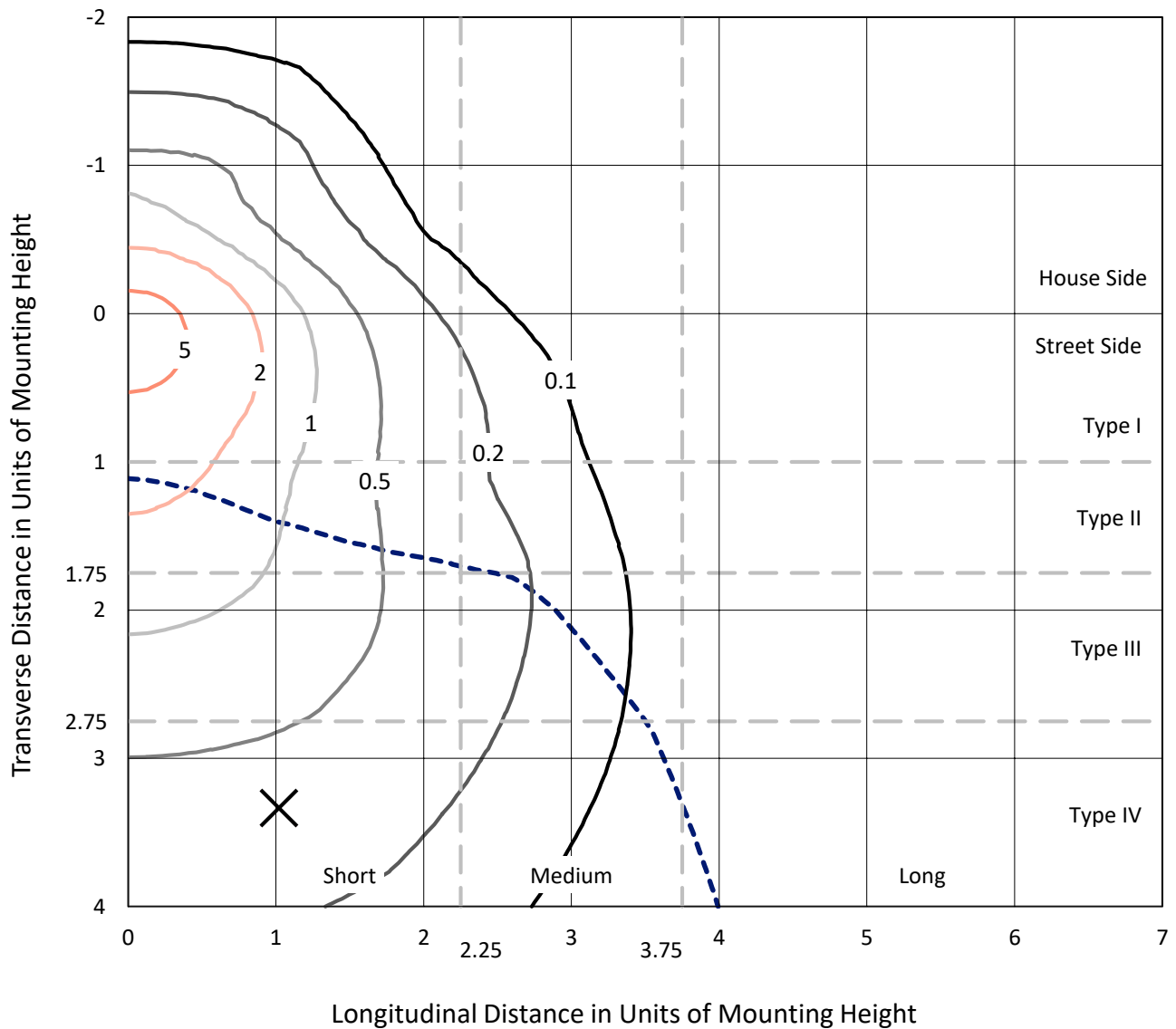
Input Watts (W): 102
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

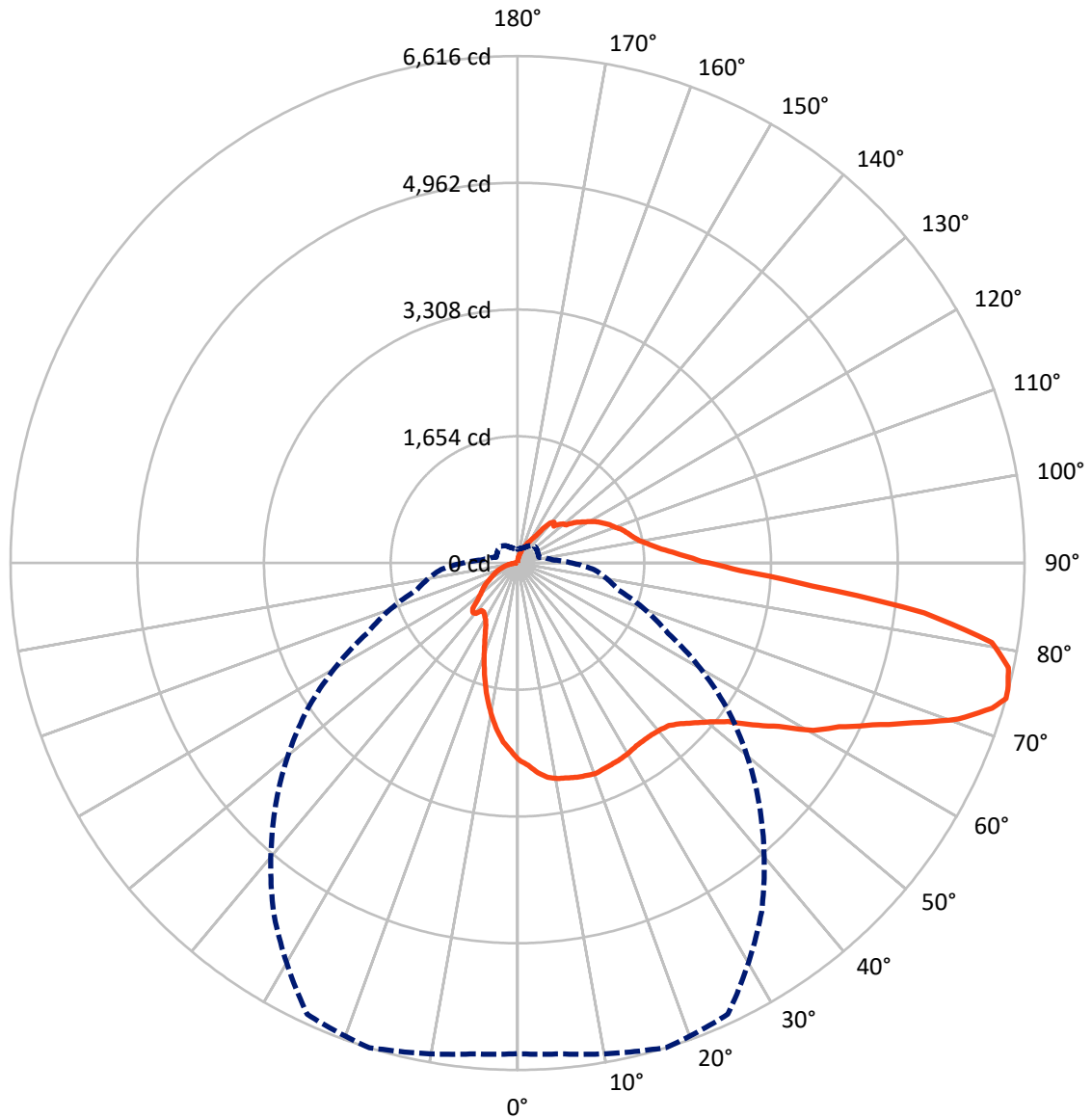
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.9 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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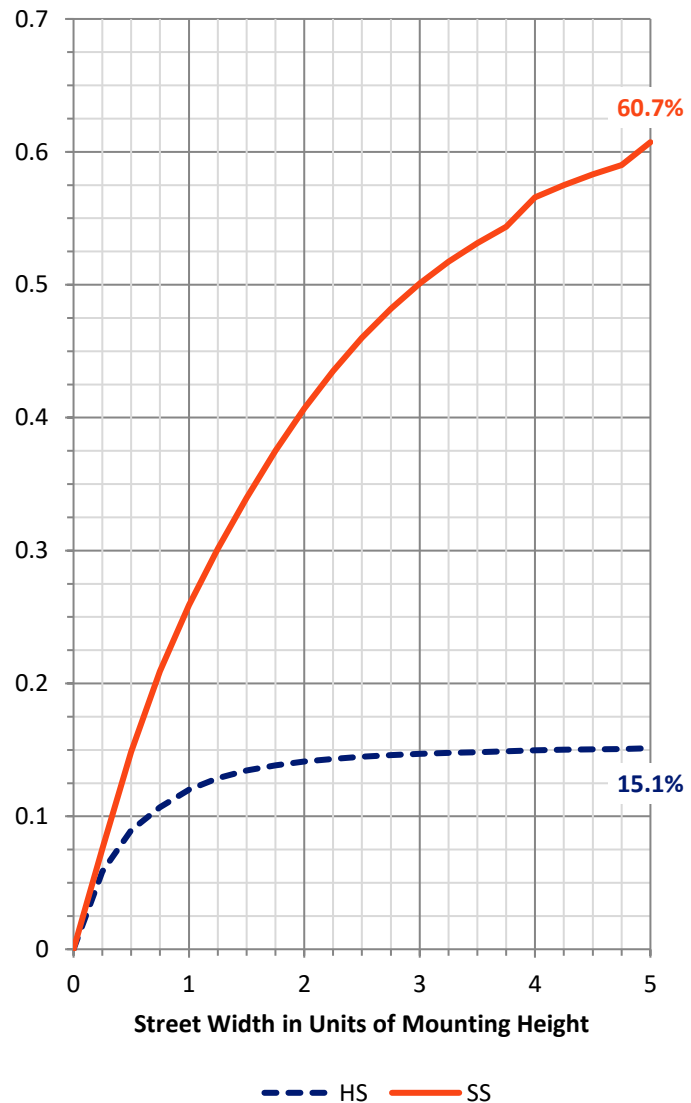
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2101.1	172.8	2273.9
	% Fixture	15.4	1.3	16.7
Street Side	Lumens	9171.3	2195.8	11367.1
	% Fixture	67.2	16.1	83.3
Total	Lumens	11272.4	2368.6	13641.0
	% Fixture	82.6	17.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.9	1.8
10°-20°	665.6	4.9
20°-30°	948.6	7.0
30°-40°	1132.8	8.3
40°-50°	1302.7	9.5
50°-60°	1501.1	11.0
60°-70°	1880.4	13.8
70°-80°	2244.6	16.5
80°-90°	1354.8	9.9
90°-100°	723.3	5.3
100°-110°	547.1	4.0
110°-120°	426.8	3.1
120°-130°	295.4	2.2
130°-140°	202.0	1.5
140°-150°	111.7	0.8
150°-160°	46.3	0.3
160°-170°	14.4	0.1
170°-180°	1.4	0.0
0°-90°	11272.4	82.6
0°-180°	13641.0	100.0

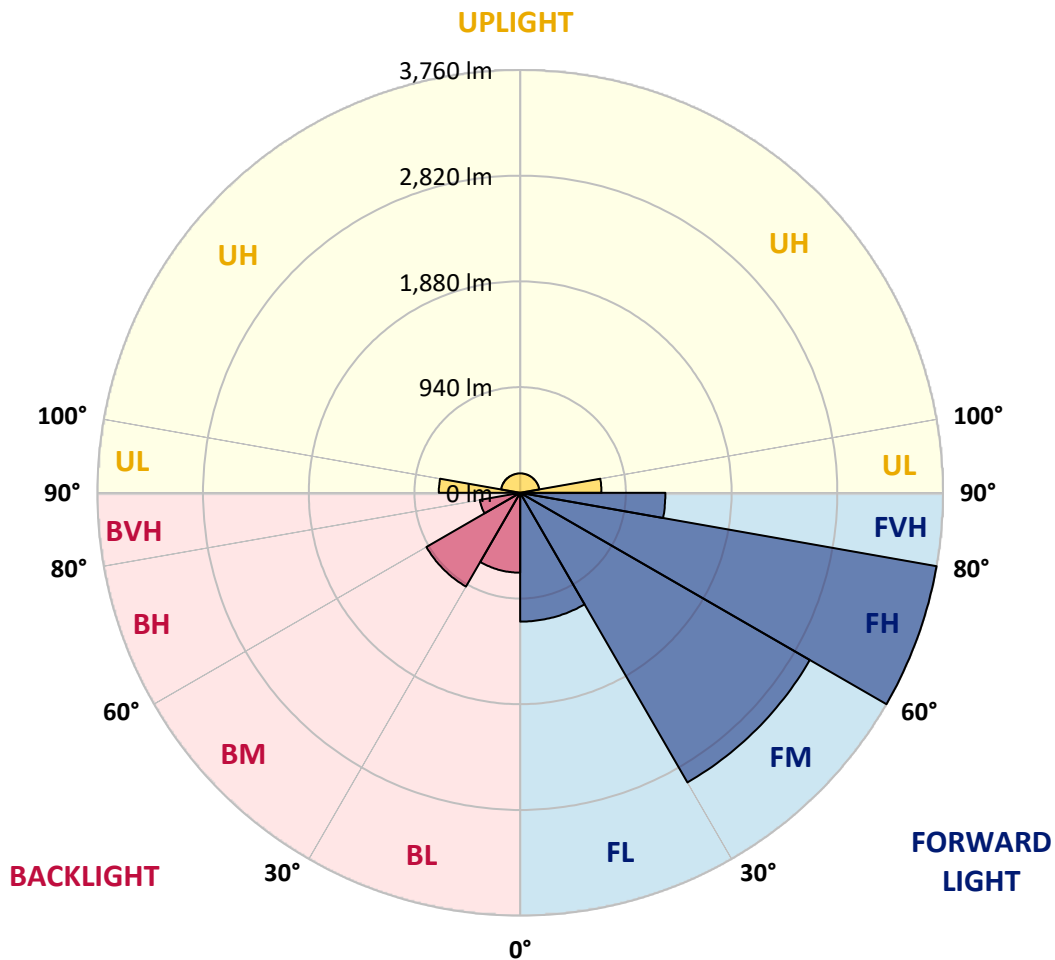


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1145.6	8.4			
FM (30°-60°)	2974.0	21.8			
FH (60°-80°)	3760.3	27.6			G2/5000
FVH (80°-90°)	1291.4	9.5			G5
BL (0°-30°)	710.4	5.2	B2/1000		
BM (30°-60°)	962.5	7.1	B1/1000		
BH (60°-80°)	364.7	2.7	B1/500		G1/500
BVH (80°-90°)	63.4	0.5			G1/100
UL (90°-100°)	723.3	5.3		U4/1000	
UH (100°-180°)	172.8	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°	2572.7	2572.7	2572.7	2572.7	2572.7	2572.7	2572.7	2572.7	2572.7	2572.7	2572.7
2.5°	2641.7	2638.0	2640.8	2641.7	2641.7	2636.1	2627.7	2619.3	2614.7	2599.8	2587.6
5°	2757.3	2748.0	2749.0	2749.0	2739.6	2720.0	2696.7	2673.4	2652.0	2619.3	2595.1
7.5°	2828.2	2827.3	2823.6	2824.5	2812.4	2790.9	2762.0	2725.6	2676.2	2634.3	2588.6
10°	2862.7	2861.8	2859.9	2860.9	2850.6	2826.3	2792.8	2751.8	2695.8	2628.7	2565.3
12.5°	2884.2	2886.0	2879.5	2877.6	2868.3	2846.9	2819.8	2768.5	2710.7	2619.3	2539.1
15°	2909.3	2910.3	2900.9	2900.9	2891.6	2865.5	2827.3	2787.2	2715.4	2617.5	2514.9
17.5°	2930.8	2932.7	2915.9	2915.9	2896.3	2863.6	2827.3	2779.7	2707.0	2598.8	2477.6
20°	2942.9	2942.9	2930.8	2929.9	2900.0	2854.3	2804.0	2748.0	2679.9	2562.5	2423.5
22.5°	2922.4	2923.3	2911.2	2910.3	2890.7	2845.0	2776.0	2715.4	2643.6	2515.8	2357.3
25°	2916.8	2915.9	2900.0	2899.1	2871.1	2832.9	2759.2	2670.6	2593.2	2466.4	2293.0
27.5°	2907.5	2909.3	2892.6	2889.8	2860.9	2804.9	2739.6	2634.3	2538.2	2415.1	2234.2
30°	2888.8	2889.8	2873.9	2870.2	2833.8	2777.9	2693.0	2588.6	2485.1	2355.4	2162.4
32.5°	2877.6	2878.6	2851.5	2845.9	2806.8	2738.7	2641.7	2544.7	2417.9	2291.1	2090.6
35°	2881.4	2877.6	2847.8	2841.3	2784.4	2706.1	2601.6	2493.5	2363.8	2235.2	2019.8
37.5°	2903.7	2900.0	2854.3	2844.1	2779.7	2666.0	2557.8	2441.2	2306.0	2187.6	1949.8
40°	2923.3	2917.7	2875.8	2863.6	2789.1	2654.8	2516.8	2399.3	2276.2	2122.3	1896.7
42.5°	3000.7	2993.3	2915.9	2897.2	2797.4	2640.8	2472.9	2354.5	2227.7	2076.6	1826.7
45°	3130.3	3116.4	3015.6	2989.5	2838.5	2629.6	2455.2	2326.5	2187.6	1992.7	1761.5
47.5°	3269.3	3258.1	3148.1	3116.4	2933.6	2646.4	2442.2	2307.9	2131.7	1960.1	1704.6
50°	3425.9	3413.8	3296.3	3258.1	3049.2	2697.7	2451.5	2276.2	2078.5	1873.4	1616.0
52.5°	3683.3	3656.3	3486.5	3439.0	3198.4	2790.9	2461.7	2268.7	2043.1	1816.5	1569.4
55°	3975.2	3954.7	3780.3	3726.2	3420.3	2921.5	2484.1	2254.7	2004.8	1765.2	1487.3
57.5°	4323.9	4297.8	4074.9	4023.7	3699.2	3091.2	2570.8	2218.4	1984.3	1700.8	1420.2
60°	4689.4	4662.4	4488.0	4433.9	4082.4	3332.7	2724.7	2215.6	1967.5	1653.3	1348.4
62.5°	4976.6	4947.7	4743.5	4709.0	4436.7	3715.0	2921.5	2268.7	1924.6	1609.5	1280.3
65°	5385.1	5345.9	5142.6	5092.3	4767.8	4084.3	3218.0	2384.4	1873.4	1587.1	1210.4
67.5°	5785.1	5768.3	5599.5	5566.9	5305.8	4606.5	3607.8	2595.1	1845.4	1568.4	1137.6
70°	6185.1	6173.0	6089.1	6101.2	5966.9	5233.1	4183.1	2958.8	1902.3	1561.9	1079.8
72.5°	6343.7	6345.5	6428.5	6476.1	6406.1	5571.6	4507.6	3409.1	2070.1	1445.3	1035.1
74°	6403.3	6430.4	6578.7	6616.0	6496.6	5553.9	4462.9	3356.0	2165.2	1362.4	1007.1
75°	6439.7	6473.3	6586.1	6609.4	6445.3	5449.4	4378.0	3246.0	2172.7	1311.1	987.5
77.5°	6486.3	6512.4	6567.5	6548.8	6141.3	4964.5	3959.3	2972.7	2009.5	1200.1	935.3
80°	6389.4	6413.6	6384.7	6276.5	5586.5	4345.4	3289.8	2394.6	1728.8	1038.8	788.9
82.5°	5929.6	5913.8	5576.2	5347.8	4471.2	3289.8	2184.8	1706.4	1412.7	937.1	545.5
85°	4898.3	4810.7	4067.5	3860.5	3232.9	2367.6	1831.4	1507.8	1258.8	906.4	375.8
87.5°	3438.1	3370.9	3013.8	2910.3	2540.1	2007.6	1644.9	1383.8	1137.6	830.8	244.3
90°	2744.3	2711.7	2466.4	2399.3	2181.1	1801.6	1490.1	1247.7	1014.5	704.0	198.6
92.5°	2354.5	2329.3	2155.9	2123.3	1952.6	1651.4	1382.9	1149.7	896.1	570.7	180.0
95°	2050.5	2030.0	1893.9	1889.2	1783.8	1542.3	1302.7	1085.4	796.3	458.8	181.8
97.5°	1820.2	1805.3	1729.8	1736.3	1658.9	1444.4	1209.4	1032.3	701.2	386.0	192.1
100°	1664.5	1654.2	1594.5	1613.2	1555.4	1361.4	1151.6	949.3	634.1	335.7	206.1
102.5°	1565.6	1558.2	1515.3	1539.5	1476.1	1307.3	1103.1	881.2	573.5	334.8	223.8
105°	1482.6	1478.9	1456.5	1481.7	1444.4	1250.5	1045.3	815.0	530.6	343.2	238.7
107.5°	1428.6	1427.6	1405.2	1423.9	1355.8	1188.0	972.6	767.4	518.5	351.5	248.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	17°	25°	35°	45°	55°	65°	75°	85°
110°	1325.1	1326.9	1331.6	1346.5	1295.2	1123.6	917.6	715.2	517.5	354.3	249.0
112.5°	1284.0	1282.2	1282.2	1290.6	1216.9	1056.5	891.5	677.0	493.3	353.4	243.4
115°	1226.2	1226.2	1222.5	1221.5	1143.2	987.5	845.8	651.8	474.6	344.1	233.1
117.5°	1162.8	1163.7	1147.9	1148.8	1064.9	945.5	775.8	627.6	455.1	327.3	219.1
120°	1078.9	1076.1	1063.0	1061.2	993.1	877.5	711.5	561.4	424.3	314.2	203.3
122.5°	995.0	995.9	981.9	980.0	920.4	788.9	687.2	525.9	406.6	296.5	189.3
125°	916.6	917.6	912.9	908.2	830.8	747.8	619.2	498.9	385.1	279.7	175.3
127.5°	849.5	852.3	817.8	807.5	775.8	718.9	569.7	456.0	367.4	259.2	160.4
130°	777.7	778.6	784.2	787.0	756.2	636.9	554.8	443.9	350.6	240.6	146.4
132.5°	773.0	772.1	751.6	739.5	676.0	607.0	497.0	419.6	327.3	225.7	133.3
135°	706.8	703.1	680.7	675.1	644.3	584.7	508.2	417.8	321.7	211.7	121.2
137.5°	715.2	712.4	715.2	716.1	675.1	586.5	517.5	417.8	307.7	194.9	110.0
140°	718.0	717.1	684.4	677.0	642.5	600.5	497.0	390.7	276.9	171.6	98.8
142.5°	580.9	585.6	578.1	577.2	569.7	475.6	420.5	318.9	232.2	150.1	89.5
145°	482.1	484.9	452.3	442.0	415.0	400.0	337.6	266.7	200.5	134.3	80.2
147.5°	361.8	363.7	370.2	373.9	370.2	319.8	276.0	235.0	173.4	121.2	70.9
150°	337.6	337.6	319.8	321.7	304.0	279.7	252.7	217.3	158.5	109.1	62.5
152.5°	286.3	286.3	291.9	292.8	269.5	251.8	225.7	186.5	143.6	97.9	55.0
155°	249.0	251.8	245.2	245.2	247.1	222.9	197.7	159.5	126.8	86.7	50.4
157.5°	228.5	232.2	220.1	219.1	213.5	195.8	164.1	139.9	107.2	75.5	47.6
160°	200.5	202.3	194.0	192.1	176.2	157.6	137.1	116.6	90.5	65.3	42.9
162.5°	153.9	156.7	149.2	148.3	138.9	129.6	114.7	94.2	73.7	54.1	37.3
165°	125.9	126.8	124.0	124.0	119.4	102.6	89.5	75.5	58.7	42.0	30.8
167.5°	95.1	97.0	94.2	95.1	90.5	81.1	69.9	56.9	42.9	30.8	24.2
170°	74.6	75.5	73.7	73.7	69.0	59.7	47.6	37.3	28.9	19.6	18.6
172.5°	52.2	53.2	48.5	49.4	41.0	34.5	28.0	22.4	17.7	14.9	14.9
175°	6.5	8.4	15.9	15.9	17.7	15.9	14.9	12.1	11.2	12.1	12.1
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°	2572.7	2572.7	2572.7	2572.7	2572.7	2572.7	2572.7	2572.7	2572.7	2572.7	2572.7
2.5°	2581.1	2573.6	2554.1	2535.4	2510.2	2488.8	2470.1	2455.2	2453.4	2444.0	2443.1
5°	2581.1	2567.1	2528.0	2485.1	2445.0	2411.4	2378.8	2350.8	2341.5	2327.5	2324.7
7.5°	2569.0	2545.7	2488.8	2429.1	2363.8	2307.0	2258.5	2213.7	2195.1	2175.5	2169.9
10°	2541.0	2508.4	2430.0	2348.0	2262.2	2181.1	2111.1	2045.9	2016.0	1996.4	1989.0
12.5°	2510.2	2468.3	2372.2	2261.3	2150.3	2044.9	1960.1	1890.1	1840.7	1809.9	1800.6
15°	2477.6	2424.5	2303.2	2171.7	2027.2	1914.4	1797.8	1708.3	1652.4	1617.9	1607.6
17.5°	2431.9	2368.5	2225.8	2065.4	1902.3	1749.3	1622.5	1525.5	1463.1	1426.7	1415.5
20°	2368.5	2292.0	2127.0	1942.4	1750.3	1580.6	1447.2	1349.3	1286.8	1248.6	1235.5
22.5°	2300.4	2211.8	2023.5	1817.4	1605.7	1425.8	1285.9	1190.8	1129.2	1094.7	1097.5
25°	2228.6	2132.6	1923.7	1689.7	1452.8	1279.4	1144.2	1060.2	997.8	969.8	969.8
27.5°	2156.8	2050.5	1821.1	1561.0	1315.7	1147.9	1024.8	948.3	898.0	880.3	880.3
30°	2076.6	1960.1	1705.5	1427.6	1195.4	1033.2	920.4	863.5	842.0	832.7	832.7
32.5°	1988.0	1871.5	1602.0	1300.8	1082.6	931.5	837.4	815.0	803.8	801.0	801.9
35°	1912.5	1783.8	1493.8	1183.3	982.8	844.8	787.9	781.4	776.8	774.9	774.9
37.5°	1842.6	1704.6	1384.7	1083.5	895.2	777.7	754.4	756.2	781.4	826.2	829.9
40°	1766.1	1627.2	1278.4	988.4	817.8	730.1	728.3	756.2	878.4	920.4	919.4
42.5°	1700.8	1545.1	1180.5	908.2	749.7	696.6	702.2	836.4	878.4	869.1	870.9
45°	1616.9	1474.3	1094.7	824.3	690.0	666.7	715.2	838.3	830.8	794.5	794.5
47.5°	1559.1	1379.1	1011.7	752.5	643.4	639.7	777.7	786.1	698.4	642.5	641.5
50°	1472.4	1315.7	921.3	685.4	608.9	622.0	736.7	698.4	625.7	589.3	588.4
52.5°	1398.7	1216.9	833.6	628.5	580.0	619.2	681.6	628.5	569.7	550.2	550.2
55°	1329.7	1145.1	753.4	577.2	552.0	636.0	599.6	574.4	527.8	497.9	496.1
57.5°	1230.9	1022.9	667.7	533.4	523.1	588.4	547.4	520.3	471.8	435.5	432.7
60°	1155.3	929.7	584.7	496.1	493.3	528.7	517.5	467.2	410.3	385.1	383.2
62.5°	1064.9	858.8	515.7	459.7	457.8	463.4	478.4	414.0	367.4	346.9	345.0
65°	982.8	765.6	461.6	423.3	424.3	414.0	439.2	365.5	329.2	308.7	308.7
67.5°	899.8	677.0	411.2	384.2	403.8	386.0	401.9	325.4	295.6	276.0	274.1
70°	822.4	591.2	361.8	349.7	369.3	355.3	352.5	286.3	259.2	240.6	238.7
72.5°	752.5	509.1	316.1	314.2	329.2	327.3	302.1	248.0	221.9	205.1	201.4
74°	708.7	460.6	289.1	293.7	307.7	309.6	275.1	224.7	198.6	184.6	180.0
75°	681.6	423.3	270.4	279.7	294.7	296.5	256.4	207.9	183.7	169.7	165.0
77.5°	595.9	324.5	229.4	255.5	268.6	263.0	214.5	167.8	148.3	134.3	130.5
80°	468.1	231.3	192.1	231.3	245.2	221.0	168.8	131.5	111.0	99.8	97.9
82.5°	328.2	161.3	156.7	185.6	203.3	178.1	128.7	97.0	80.2	71.8	69.9
85°	202.3	118.4	127.7	148.3	156.7	131.5	95.1	75.5	58.7	49.4	47.6
87.5°	128.7	97.9	104.4	129.6	119.4	94.2	72.7	55.0	41.0	31.7	30.8
90°	104.4	96.0	97.0	125.0	97.9	73.7	54.1	37.3	18.6	9.3	8.4
92.5°	107.2	104.4	106.3	131.5	96.0	69.9	50.4	34.5	15.9	6.5	5.6
95°	134.3	121.2	122.2	129.6	98.8	70.9	50.4	34.5	15.9	5.6	4.7
97.5°	157.6	140.8	131.5	125.0	99.8	71.8	49.4	32.6	14.9	4.7	3.7
100°	173.4	156.7	131.5	121.2	98.8	70.9	48.5	30.8	14.0	3.7	3.7
102.5°	188.4	168.8	135.2	119.4	97.9	69.0	46.6	28.9	13.1	3.7	2.8
105°	200.5	177.2	140.8	117.5	97.0	67.1	44.8	27.0	12.1	2.8	1.9
107.5°	206.1	180.0	143.6	114.7	97.0	65.3	42.9	25.2	10.3	1.9	0.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	205.1	179.0	141.7	114.7	97.9	64.3	41.0	23.3	9.3	0.9	0.0
112.5°	199.6	174.4	137.1	115.6	94.2	65.3	39.2	22.4	8.4	0.9	0.0
115°	191.2	167.8	131.5	115.6	89.5	64.3	37.3	20.5	6.5	0.0	0.0
117.5°	180.0	159.5	125.9	113.8	84.9	61.5	35.4	18.6	5.6	0.0	0.0
120°	168.8	150.1	120.3	111.0	82.1	57.8	34.5	17.7	4.7	0.0	0.0
122.5°	156.7	140.8	114.7	106.3	80.2	53.2	31.7	15.9	3.7	0.0	0.0
125°	144.5	130.5	108.2	103.5	75.5	49.4	28.9	14.0	2.8	0.0	0.0
127.5°	133.3	120.3	100.7	100.7	69.0	47.6	26.1	12.1	2.8	0.0	0.0
130°	121.2	110.0	94.2	96.0	63.4	44.8	24.2	11.2	1.9	0.0	0.0
132.5°	110.0	99.8	87.7	89.5	57.8	42.9	22.4	9.3	1.9	0.0	0.0
135°	99.8	92.3	81.1	82.1	53.2	41.0	19.6	8.4	1.9	0.0	0.0
137.5°	90.5	84.9	76.5	73.7	48.5	38.2	17.7	6.5	0.9	0.0	0.0
140°	83.9	78.3	74.6	66.2	43.8	35.4	15.9	5.6	0.9	0.0	0.0
142.5°	76.5	72.7	73.7	58.7	40.1	31.7	14.0	4.7	0.9	0.0	0.0
145°	68.1	66.2	69.9	50.4	36.4	28.9	12.1	4.7	0.9	0.0	0.0
147.5°	62.5	61.5	67.1	42.9	32.6	26.1	11.2	3.7	0.9	0.0	0.0
150°	57.8	57.8	60.6	36.4	28.9	22.4	9.3	3.7	0.0	0.0	0.0
152.5°	53.2	55.0	53.2	31.7	25.2	19.6	7.5	3.7	0.0	0.0	0.0
155°	49.4	50.4	45.7	28.0	21.4	15.9	7.5	2.8	0.0	0.0	0.0
157.5°	47.6	47.6	40.1	24.2	17.7	12.1	6.5	2.8	0.0	0.0	0.0
160°	43.8	43.8	34.5	21.4	14.9	10.3	5.6	2.8	0.0	0.0	0.0
162.5°	38.2	37.3	28.9	18.6	13.1	8.4	5.6	2.8	0.0	0.0	0.0
165°	30.8	28.9	22.4	15.9	10.3	7.5	4.7	2.8	0.0	0.0	0.0
167.5°	23.3	22.4	16.8	12.1	8.4	6.5	4.7	2.8	0.0	0.0	0.0
170°	17.7	16.8	13.1	9.3	7.5	6.5	4.7	2.8	0.0	0.0	0.0
172.5°	14.0	14.0	11.2	8.4	7.5	6.5	4.7	1.9	0.0	0.0	0.0
175°	12.1	11.2	9.3	8.4	7.5	4.7	3.7	1.9	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)