

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: P232428

Luminaire Tested: **AXCL10ARL-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232428
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-W
Description: AXCENT RL WALLPACK
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11889.1 lumens
Efficiency: N/A
Efficacy: 116.6 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

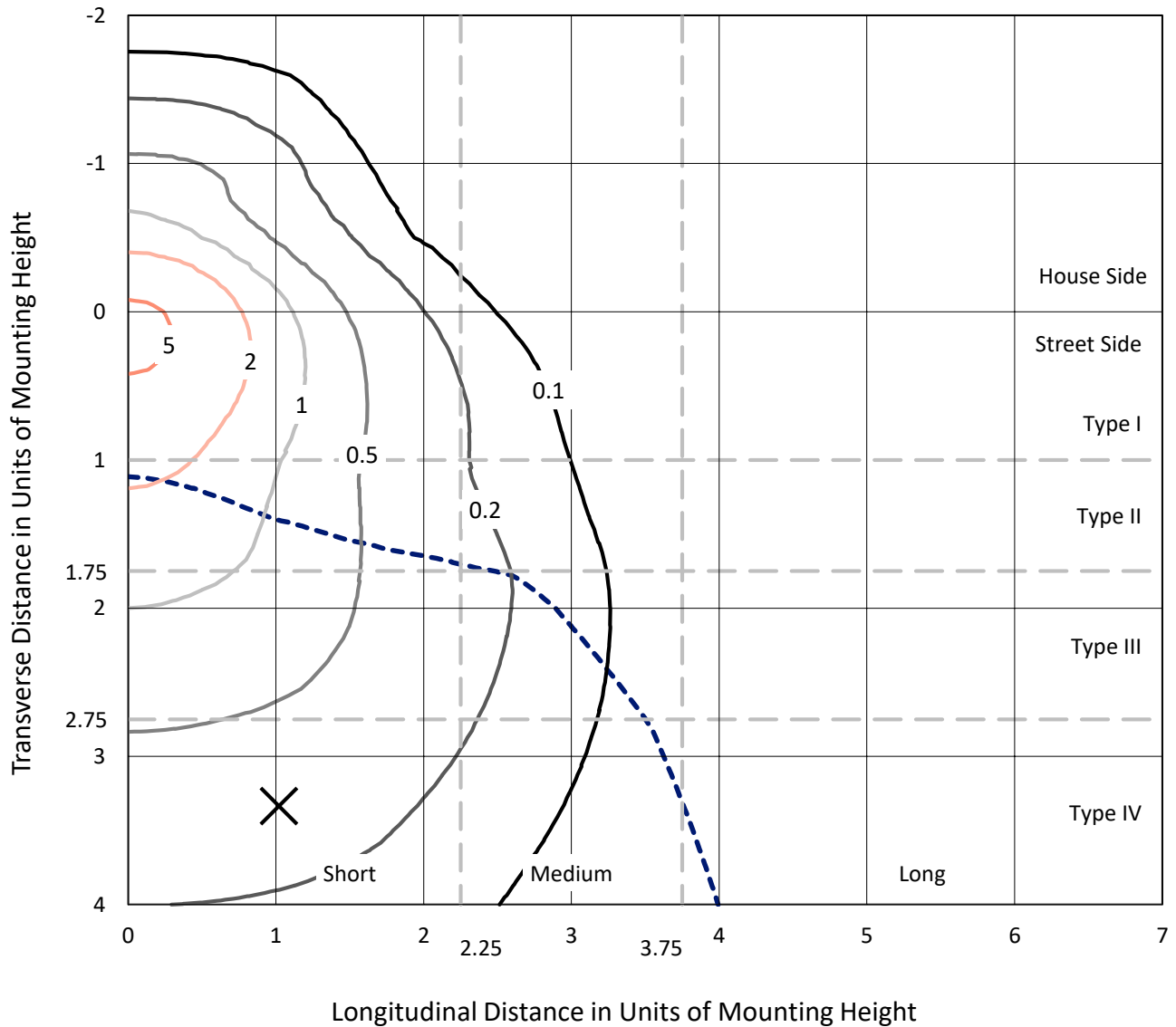
Input Watts (W): 102
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

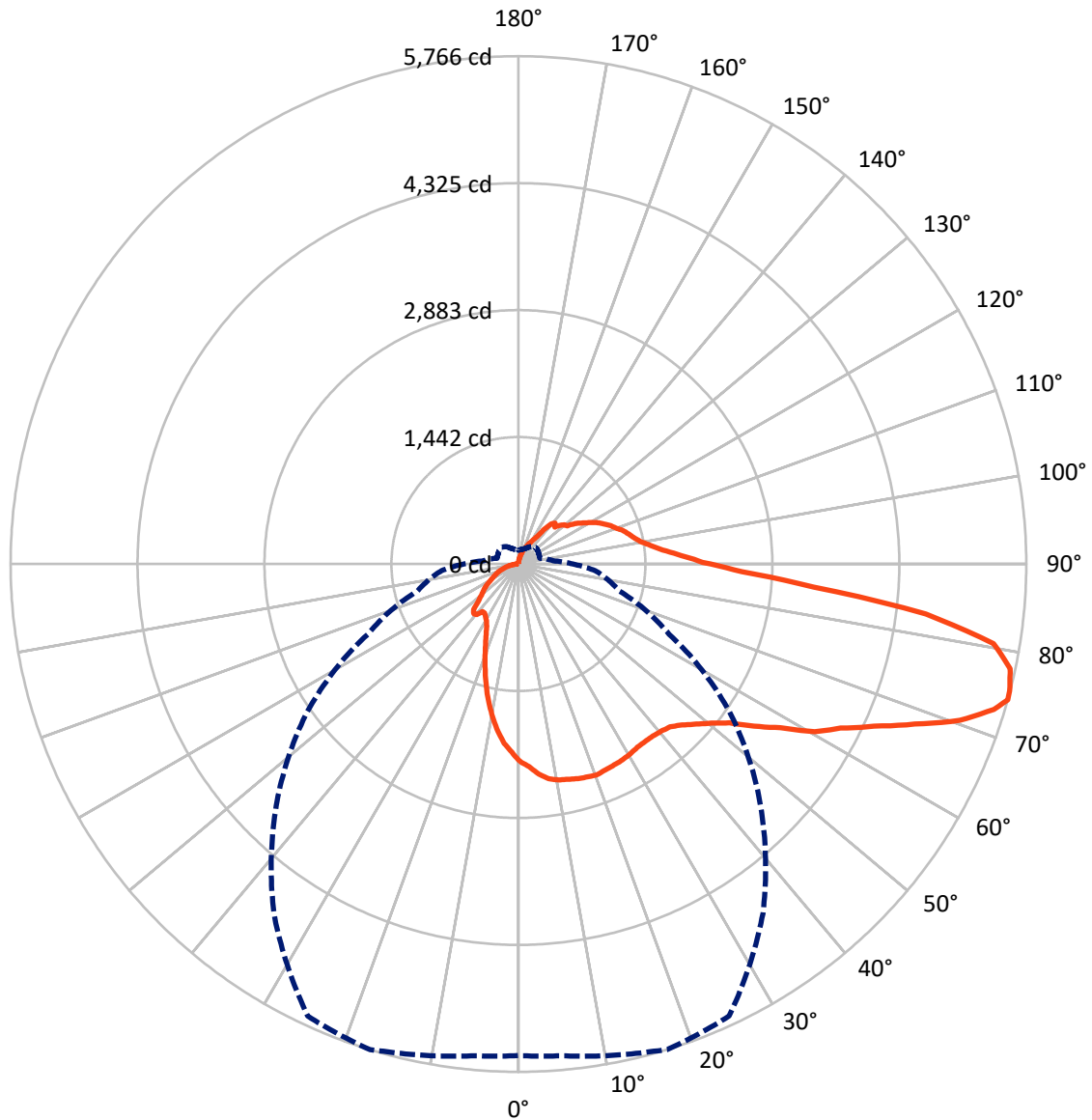
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 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	1831.2	150.6	1981.9
	% Fixture	15.4	1.3	16.7
Street Side	Lumens	7993.5	1913.8	9907.3
	% Fixture	67.2	16.1	83.3
Total	Lumens	9824.7	2064.4	11889.1
	% Fixture	82.6	17.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.8	1.8
10°-20°	580.1	4.9
20°-30°	826.7	7.0
30°-40°	987.3	8.3
40°-50°	1135.4	9.5
50°-60°	1308.3	11.0
60°-70°	1638.9	13.8
70°-80°	1956.3	16.5
80°-90°	1180.8	9.9
90°-100°	630.4	5.3
100°-110°	476.9	4.0
110°-120°	372.0	3.1
120°-130°	257.5	2.2
130°-140°	176.1	1.5
140°-150°	97.3	0.8
150°-160°	40.4	0.3
160°-170°	12.5	0.1
170°-180°	1.3	0.0
0°-90°	9824.7	82.6
0°-180°	11889.1	100.0

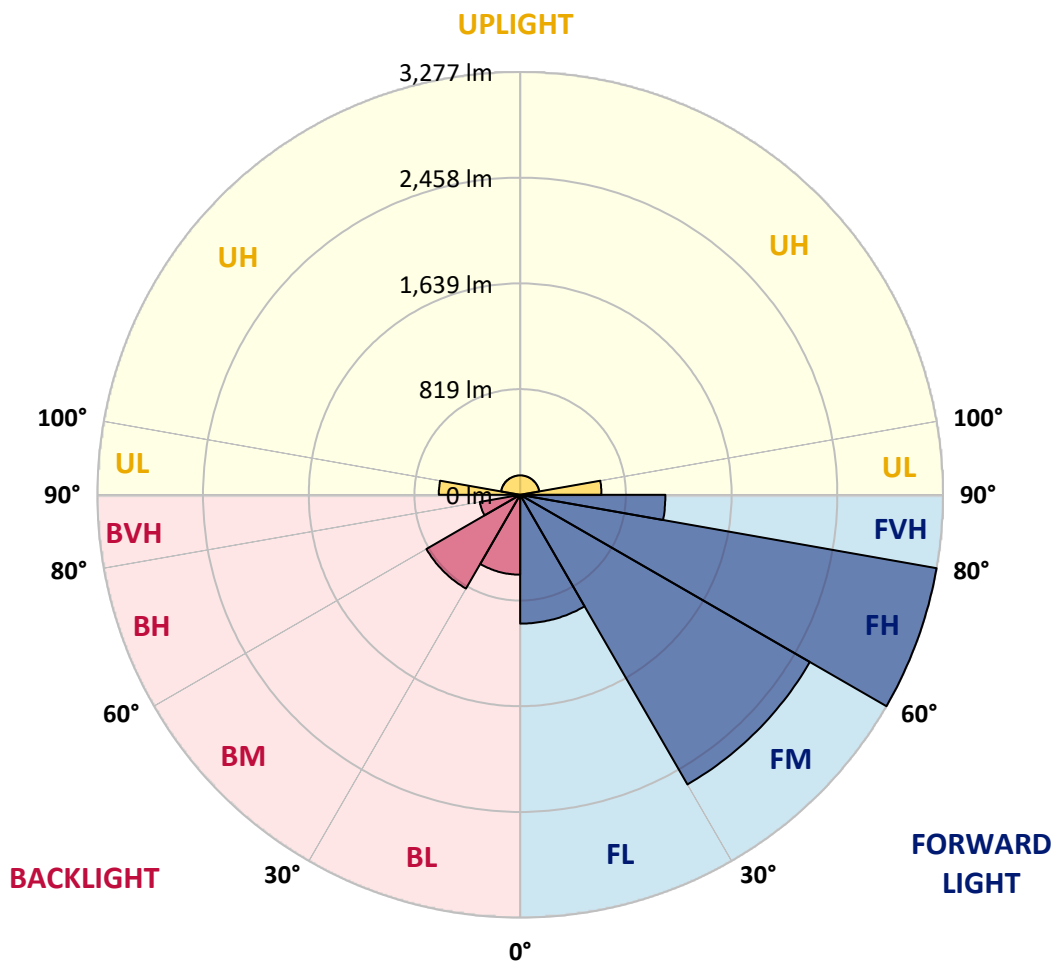


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	998.5	8.4			
FM (30°-60°)	2592.1	21.8			
FH (60°-80°)	3277.4	27.6			G2/5000
FVH (80°-90°)	1125.5	9.5			G5
BL (0°-30°)	619.2	5.2	B2/1000		
BM (30°-60°)	838.9	7.1	B1/1000		
BH (60°-80°)	317.8	2.7	B1/500		G1/500
BVH (80°-90°)	55.3	0.5			G1/100
UL (90°-100°)	630.4	5.3		U4/1000	
UH (100°-180°)	150.6	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°	2242.3	2242.3	2242.3	2242.3	2242.3	2242.3	2242.3	2242.3	2242.3	2242.3	2242.3
2.5°	2302.4	2299.2	2301.6	2302.4	2302.4	2297.6	2290.3	2282.9	2278.9	2265.9	2255.3
5°	2403.2	2395.1	2395.9	2387.8	2370.7	2350.4	2330.1	2311.4	2282.9	2261.8	
7.5°	2465.0	2464.2	2460.9	2451.2	2432.5	2407.3	2375.6	2332.5	2295.9	2256.1	
10°	2495.1	2494.2	2492.6	2484.5	2463.4	2434.1	2398.3	2349.6	2291.1	2235.8	
12.5°	2513.8	2515.4	2509.7	2499.9	2481.2	2457.7	2413.0	2362.6	2282.9	2213.0	
15°	2535.7	2536.5	2528.4	2520.3	2497.5	2464.2	2429.2	2366.6	2281.3	2191.9	
17.5°	2554.4	2556.0	2541.4	2524.3	2495.9	2464.2	2422.7	2359.3	2265.1	2159.4	
20°	2565.0	2565.0	2554.4	2527.6	2487.7	2443.9	2395.1	2335.8	2233.4	2112.3	
22.5°	2547.1	2547.9	2537.3	2519.4	2479.6	2419.5	2366.6	2304.1	2192.7	2054.6	
25°	2542.2	2541.4	2527.6	2502.4	2469.1	2404.8	2327.6	2260.2	2149.7	1998.5	
27.5°	2534.1	2535.7	2521.1	2493.4	2444.7	2387.8	2295.9	2212.2	2105.0	1947.3	
30°	2517.8	2518.6	2504.8	2469.9	2421.1	2347.1	2256.1	2165.9	2052.9	1884.7	
32.5°	2508.1	2508.9	2485.3	2446.3	2387.0	2302.4	2217.9	2107.4	1996.9	1822.1	
35°	2511.3	2508.1	2482.1	2426.8	2358.5	2267.5	2173.2	2060.3	1948.1	1760.4	
37.5°	2530.8	2527.6	2487.7	2422.7	2323.6	2229.3	2127.7	2009.9	1906.6	1699.4	
40°	2547.9	2543.0	2506.4	2430.9	2313.8	2193.5	2091.1	1983.9	1849.8	1653.1	
42.5°	2615.3	2608.8	2541.4	2438.2	2301.6	2155.3	2052.1	1941.6	1809.9	1592.1	
45°	2728.3	2716.1	2628.3	2473.9	2291.9	2139.9	2027.7	1906.6	1736.8	1535.2	
47.5°	2849.4	2839.7	2743.8	2556.8	2306.5	2128.5	2011.5	1857.9	1708.3	1485.7	
50°	2985.9	2975.4	2873.0	2657.6	2351.2	2136.6	1983.9	1811.6	1632.8	1408.4	
52.5°	3210.3	3186.7	3038.8	2787.6	2432.5	2145.6	1977.4	1780.7	1583.2	1367.8	
55°	3464.6	3446.8	3294.8	2981.1	2546.3	2165.1	1965.2	1747.4	1538.5	1296.3	
57.5°	3768.6	3745.8	3551.6	3224.1	2694.2	2240.7	1933.5	1729.5	1482.4	1237.8	
60°	4087.2	4063.6	3911.6	3558.1	2904.7	2374.8	1931.0	1714.8	1441.0	1175.2	
62.5°	4337.5	4312.3	4134.3	3866.9	3237.9	2546.3	1977.4	1677.5	1402.8	1115.9	
65°	4693.5	4659.3	4482.2	4155.5	3559.7	2804.7	2078.1	1632.8	1383.3	1054.9	
67.5°	5042.1	5027.5	4880.4	4624.4	4014.9	3144.4	2261.8	1608.4	1367.0	991.5	
70°	5390.8	5380.2	5307.1	5200.6	4561.0	3645.9	2578.8	1658.0	1361.3	941.1	
72.5°	5529.0	5530.6	5602.9	5583.4	4856.0	3928.7	2971.3	1804.2	1259.7	902.1	
74°	5581.0	5604.5	5733.8	5766.3	5662.2	4840.6	3889.7	2925.0	1887.1	1187.4	877.7
75°	5612.7	5641.9	5740.3	5760.6	5617.5	4749.6	3815.7	2829.1	1893.6	1142.7	860.7
77.5°	5653.3	5676.1	5724.0	5707.8	5352.6	4326.9	3450.8	2591.0	1751.4	1046.0	815.2
80°	5568.8	5589.9	5564.7	5470.4	4869.0	3787.3	2867.3	2087.1	1506.8	905.4	687.6
82.5°	5168.1	5154.3	4860.1	4661.0	3897.0	2867.3	1904.2	1487.3	1231.3	816.8	475.4
85°	4269.2	4192.8	3545.1	3364.7	2817.7	2063.5	1596.2	1314.2	1097.2	790.0	327.5
87.5°	2996.5	2938.0	2626.7	2536.5	2213.9	1749.8	1433.6	1206.1	991.5	724.1	212.9
90°	2391.8	2363.4	2149.7	2091.1	1901.0	1570.2	1298.7	1087.4	884.2	613.6	173.1
92.5°	2052.1	2030.2	1879.0	1850.6	1701.8	1439.3	1205.3	1002.1	781.0	497.4	156.9
95°	1787.2	1769.3	1650.6	1646.6	1554.7	1344.2	1135.4	946.0	694.1	399.9	158.5
97.5°	1586.4	1573.4	1507.6	1513.3	1445.8	1258.9	1054.1	899.7	611.2	336.5	167.4
100°	1450.7	1441.8	1389.8	1406.0	1355.6	1186.6	1003.7	827.4	552.7	292.6	179.6
102.5°	1364.6	1358.1	1320.7	1341.8	1286.5	1139.4	961.5	768.0	499.8	291.8	195.1
105°	1292.2	1289.0	1269.5	1291.4	1258.9	1089.9	911.1	710.3	462.4	299.1	208.1
107.5°	1245.1	1244.3	1224.8	1241.0	1181.7	1035.4	847.7	668.9	451.9	306.4	216.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	17°	25°	35°	45°	55°	65°	75°	85°
110°	1154.9	1156.5	1160.6	1173.6	1128.9	979.3	799.7	623.4	451.1	308.8	217.0
112.5°	1119.1	1117.5	1117.5	1124.8	1060.6	920.8	777.0	590.0	429.9	308.0	212.1
115°	1068.7	1068.7	1065.5	1064.7	996.4	860.7	737.1	568.1	413.7	299.9	203.2
117.5°	1013.5	1014.3	1000.5	1001.3	928.1	824.1	676.2	547.0	396.6	285.3	191.0
120°	940.3	937.9	926.5	924.9	865.6	764.8	620.1	489.3	369.8	273.9	177.2
122.5°	867.2	868.0	855.8	854.2	802.2	687.6	599.0	458.4	354.3	258.4	165.0
125°	798.9	799.7	795.7	791.6	724.1	651.8	539.6	434.8	335.7	243.8	152.8
127.5°	740.4	742.8	712.8	703.8	676.2	626.6	496.6	397.4	320.2	225.9	139.8
130°	677.8	678.6	683.5	685.9	659.1	555.1	483.6	386.9	305.6	209.7	127.6
132.5°	673.7	672.9	655.1	644.5	589.2	529.1	433.2	365.7	285.3	196.7	116.2
135°	616.0	612.8	593.3	588.4	561.6	509.6	442.9	364.1	280.4	184.5	105.7
137.5°	623.4	620.9	623.4	624.2	588.4	511.2	451.1	364.1	268.2	169.9	95.9
140°	625.8	625.0	596.5	590.0	560.0	523.4	433.2	340.5	241.4	149.5	86.1
142.5°	506.3	510.4	503.9	503.1	496.6	414.5	366.5	278.0	202.4	130.8	78.0
145°	420.2	422.6	394.2	385.2	361.7	348.7	294.2	232.4	174.7	117.0	69.9
147.5°	315.3	317.0	322.7	325.9	322.7	278.8	240.6	204.8	151.2	105.7	61.8
150°	294.2	294.2	278.8	280.4	264.9	243.8	220.2	189.4	138.2	95.1	54.5
152.5°	249.5	249.5	254.4	255.2	234.9	219.4	196.7	162.5	125.2	85.3	48.0
155°	217.0	219.4	213.7	213.7	215.4	194.2	172.3	139.0	110.5	75.6	43.9
157.5°	199.1	202.4	191.8	191.0	186.1	170.7	143.0	121.9	93.5	65.8	41.4
160°	174.7	176.4	169.0	167.4	153.6	137.4	119.5	101.6	78.8	56.9	37.4
162.5°	134.1	136.5	130.0	129.2	121.1	113.0	100.0	82.1	64.2	47.1	32.5
165°	109.7	110.5	108.1	108.1	104.0	89.4	78.0	65.8	51.2	36.6	26.8
167.5°	82.9	84.5	82.1	82.9	78.8	70.7	61.0	49.6	37.4	26.8	21.1
170°	65.0	65.8	64.2	64.2	60.1	52.0	41.4	32.5	25.2	17.1	16.3
172.5°	45.5	46.3	42.3	43.1	35.8	30.1	24.4	19.5	15.4	13.0	13.0
175°	5.7	7.3	13.8	13.8	15.4	13.8	13.0	10.6	9.8	10.6	10.6
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°	2242.3	2242.3	2242.3	2242.3	2242.3	2242.3	2242.3	2242.3	2242.3	2242.3	2242.3
2.5°	2249.6	2243.1	2226.0	2209.8	2187.9	2169.2	2152.9	2139.9	2138.3	2130.1	2129.3
5°	2249.6	2237.4	2203.3	2165.9	2131.0	2101.7	2073.3	2048.9	2040.7	2028.6	2026.1
7.5°	2239.1	2218.7	2169.2	2117.1	2060.3	2010.7	1968.4	1929.4	1913.1	1896.1	1891.2
10°	2214.7	2186.2	2118.0	2046.4	1971.7	1901.0	1840.0	1783.1	1757.1	1740.0	1733.5
12.5°	2187.9	2151.3	2067.6	1970.9	1874.1	1782.3	1708.3	1647.4	1604.3	1577.5	1569.4
15°	2159.4	2113.1	2007.4	1892.8	1766.9	1668.5	1566.9	1488.9	1440.1	1410.1	1401.1
17.5°	2119.6	2064.3	1940.0	1800.2	1658.0	1524.7	1414.1	1329.6	1275.2	1243.5	1233.7
20°	2064.3	1997.7	1853.8	1692.9	1525.5	1377.6	1261.3	1176.0	1121.6	1088.2	1076.9
22.5°	2005.0	1927.8	1763.6	1584.0	1399.5	1242.7	1120.7	1037.8	984.2	954.1	956.6
25°	1942.4	1858.7	1676.6	1472.7	1266.2	1115.1	997.2	924.1	869.6	845.2	845.2
27.5°	1879.8	1787.2	1587.2	1360.5	1146.8	1000.5	893.2	826.5	782.7	767.2	767.2
30°	1809.9	1708.3	1486.5	1244.3	1041.9	900.5	802.2	752.6	733.9	725.8	725.8
32.5°	1732.7	1631.1	1396.3	1133.7	943.6	811.9	729.8	710.3	700.6	698.1	698.9
35°	1666.9	1554.7	1302.0	1031.3	856.6	736.3	686.8	681.1	677.0	675.4	675.4
37.5°	1605.9	1485.7	1206.9	944.4	780.2	677.8	657.5	659.1	681.1	720.1	723.3
40°	1539.3	1418.2	1114.2	861.5	712.8	636.4	634.7	659.1	765.6	802.2	801.3
42.5°	1482.4	1346.7	1028.9	791.6	653.4	607.1	612.0	729.0	765.6	757.5	759.1
45°	1409.3	1284.9	954.1	718.4	601.4	581.1	623.4	730.6	724.1	692.4	692.4
47.5°	1358.9	1202.0	881.8	655.9	560.8	557.5	677.8	685.1	608.7	560.0	559.2
50°	1283.3	1146.8	803.0	597.4	530.7	542.1	642.1	608.7	545.3	513.6	512.8
52.5°	1219.1	1060.6	726.6	547.8	505.5	539.6	594.1	547.8	496.6	479.5	479.5
55°	1158.9	998.0	656.7	503.1	481.1	554.3	522.6	500.6	460.0	434.0	432.4
57.5°	1072.8	891.6	581.9	464.9	455.9	512.8	477.1	453.5	411.2	379.5	377.1
60°	1007.0	810.3	509.6	432.4	429.9	460.8	451.1	407.2	357.6	335.7	334.0
62.5°	928.1	748.5	449.4	400.7	399.0	403.9	416.9	360.8	320.2	302.3	300.7
65°	856.6	667.2	402.3	369.0	369.8	360.8	382.8	318.6	286.9	269.0	269.0
67.5°	784.3	590.0	358.4	334.8	351.9	336.5	350.3	283.6	257.6	240.6	238.9
70°	716.8	515.3	315.3	304.8	321.8	309.6	307.2	249.5	225.9	209.7	208.1
72.5°	655.9	443.7	275.5	273.9	286.9	285.3	263.3	216.2	193.4	178.8	175.5
74°	617.7	401.5	251.9	256.0	268.2	269.8	239.8	195.9	173.1	160.9	156.9
75°	594.1	369.0	235.7	243.8	256.8	258.4	223.5	181.2	160.1	147.9	143.9
77.5°	519.3	282.8	199.9	222.7	234.1	229.2	186.9	146.3	129.2	117.0	113.8
80°	408.0	201.6	167.4	201.6	213.7	192.6	147.1	114.6	96.7	87.0	85.3
82.5°	286.1	140.6	136.5	161.7	177.2	155.2	112.2	84.5	69.9	62.6	61.0
85°	176.4	103.2	111.3	129.2	136.5	114.6	82.9	65.8	51.2	43.1	41.4
87.5°	112.2	85.3	91.0	113.0	104.0	82.1	63.4	48.0	35.8	27.6	26.8
90°	91.0	83.7	84.5	108.9	85.3	64.2	47.1	32.5	16.3	8.1	7.3
92.5°	93.5	91.0	92.7	114.6	83.7	61.0	43.9	30.1	13.8	5.7	4.9
95°	117.0	105.7	106.5	113.0	86.1	61.8	43.9	30.1	13.8	4.9	4.1
97.5°	137.4	122.7	114.6	108.9	87.0	62.6	43.1	28.4	13.0	4.1	3.3
100°	151.2	136.5	114.6	105.7	86.1	61.8	42.3	26.8	12.2	3.3	3.3
102.5°	164.2	147.1	117.8	104.0	85.3	60.1	40.6	25.2	11.4	3.3	2.4
105°	174.7	154.4	122.7	102.4	84.5	58.5	39.0	23.6	10.6	2.4	1.6
107.5°	179.6	156.9	125.2	100.0	84.5	56.9	37.4	21.9	8.9	1.6	0.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	178.8	156.0	123.5	100.0	85.3	56.1	35.8	20.3	8.1	0.8	0.0
112.5°	173.9	152.0	119.5	100.8	82.1	56.9	34.1	19.5	7.3	0.8	0.0
115°	166.6	146.3	114.6	100.8	78.0	56.1	32.5	17.9	5.7	0.0	0.0
117.5°	156.9	139.0	109.7	99.2	74.0	53.6	30.9	16.3	4.9	0.0	0.0
120°	147.1	130.8	104.8	96.7	71.5	50.4	30.1	15.4	4.1	0.0	0.0
122.5°	136.5	122.7	100.0	92.7	69.9	46.3	27.6	13.8	3.3	0.0	0.0
125°	126.0	113.8	94.3	90.2	65.8	43.1	25.2	12.2	2.4	0.0	0.0
127.5°	116.2	104.8	87.8	87.8	60.1	41.4	22.8	10.6	2.4	0.0	0.0
130°	105.7	95.9	82.1	83.7	55.3	39.0	21.1	9.8	1.6	0.0	0.0
132.5°	95.9	87.0	76.4	78.0	50.4	37.4	19.5	8.1	1.6	0.0	0.0
135°	87.0	80.5	70.7	71.5	46.3	35.8	17.1	7.3	1.6	0.0	0.0
137.5°	78.8	74.0	66.6	64.2	42.3	33.3	15.4	5.7	0.8	0.0	0.0
140°	73.1	68.3	65.0	57.7	38.2	30.9	13.8	4.9	0.8	0.0	0.0
142.5°	66.6	63.4	64.2	51.2	34.9	27.6	12.2	4.1	0.8	0.0	0.0
145°	59.3	57.7	61.0	43.9	31.7	25.2	10.6	4.1	0.8	0.0	0.0
147.5°	54.5	53.6	58.5	37.4	28.4	22.8	9.8	3.3	0.8	0.0	0.0
150°	50.4	50.4	52.8	31.7	25.2	19.5	8.1	3.3	0.0	0.0	0.0
152.5°	46.3	48.0	46.3	27.6	21.9	17.1	6.5	3.3	0.0	0.0	0.0
155°	43.1	43.9	39.8	24.4	18.7	13.8	6.5	2.4	0.0	0.0	0.0
157.5°	41.4	41.4	34.9	21.1	15.4	10.6	5.7	2.4	0.0	0.0	0.0
160°	38.2	38.2	30.1	18.7	13.0	8.9	4.9	2.4	0.0	0.0	0.0
162.5°	33.3	32.5	25.2	16.3	11.4	7.3	4.9	2.4	0.0	0.0	0.0
165°	26.8	25.2	19.5	13.8	8.9	6.5	4.1	2.4	0.0	0.0	0.0
167.5°	20.3	19.5	14.6	10.6	7.3	5.7	4.1	2.4	0.0	0.0	0.0
170°	15.4	14.6	11.4	8.1	6.5	5.7	4.1	2.4	0.0	0.0	0.0
172.5°	12.2	12.2	9.8	7.3	6.5	5.7	4.1	1.6	0.0	0.0	0.0
175°	10.6	9.8	8.1	7.3	6.5	4.1	3.3	1.6	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)