

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: P232429

Luminaire Tested: **AXCL12ARL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232429
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
Description: AXCENT RL WALLPACK
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17346 lumens
Efficiency: N/A
Efficacy: 140.6 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

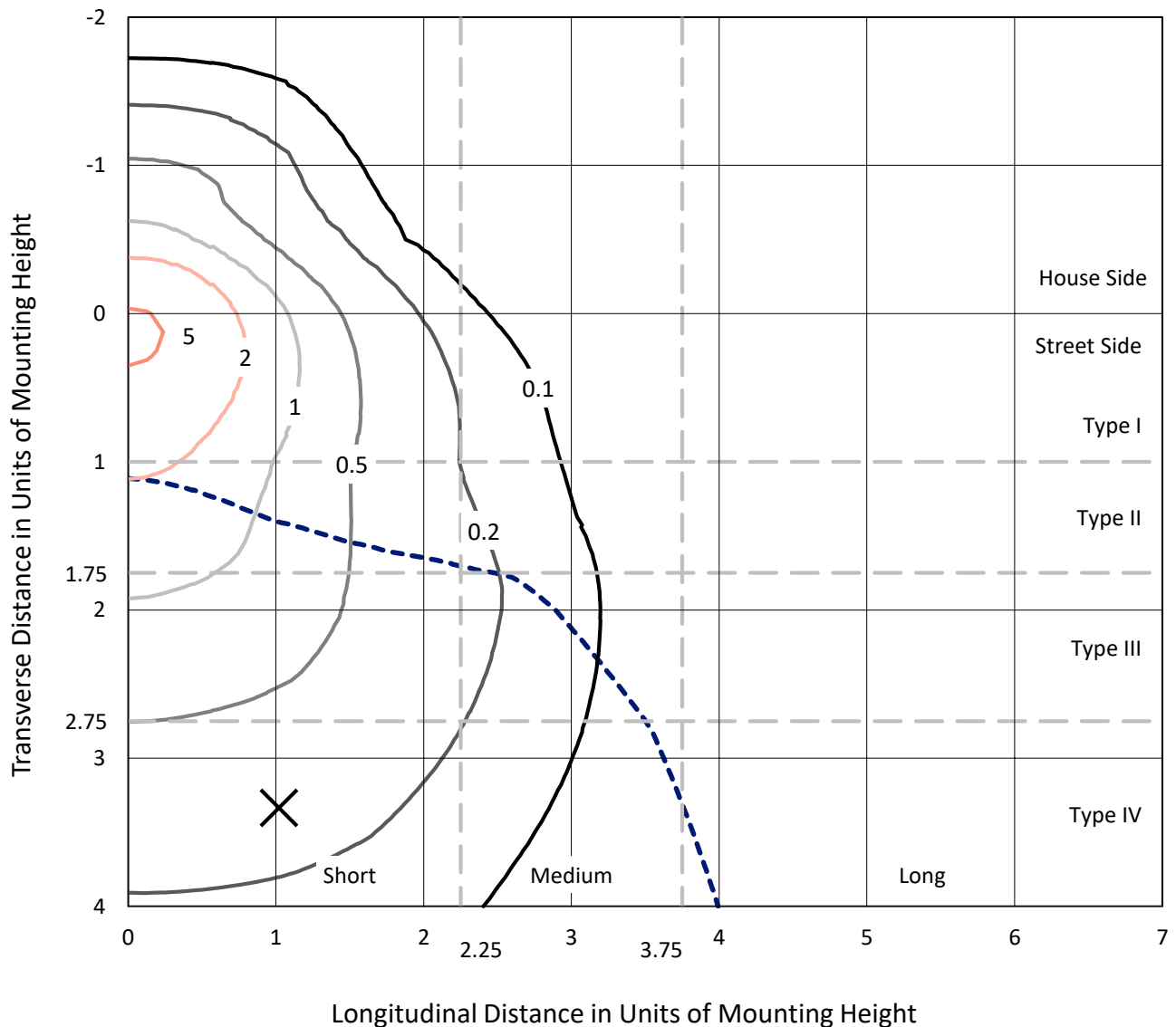
Input Watts (W): 123.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

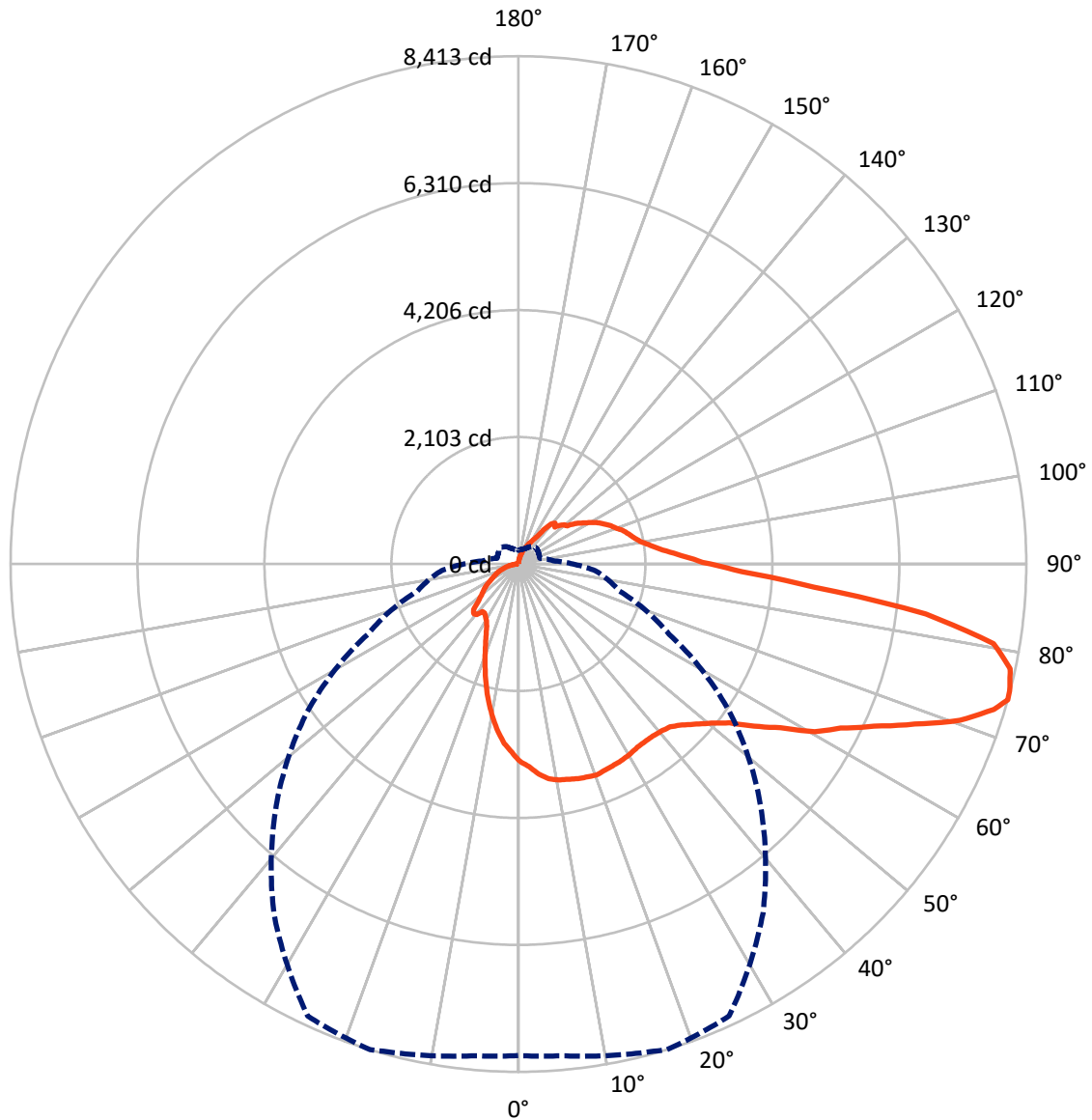
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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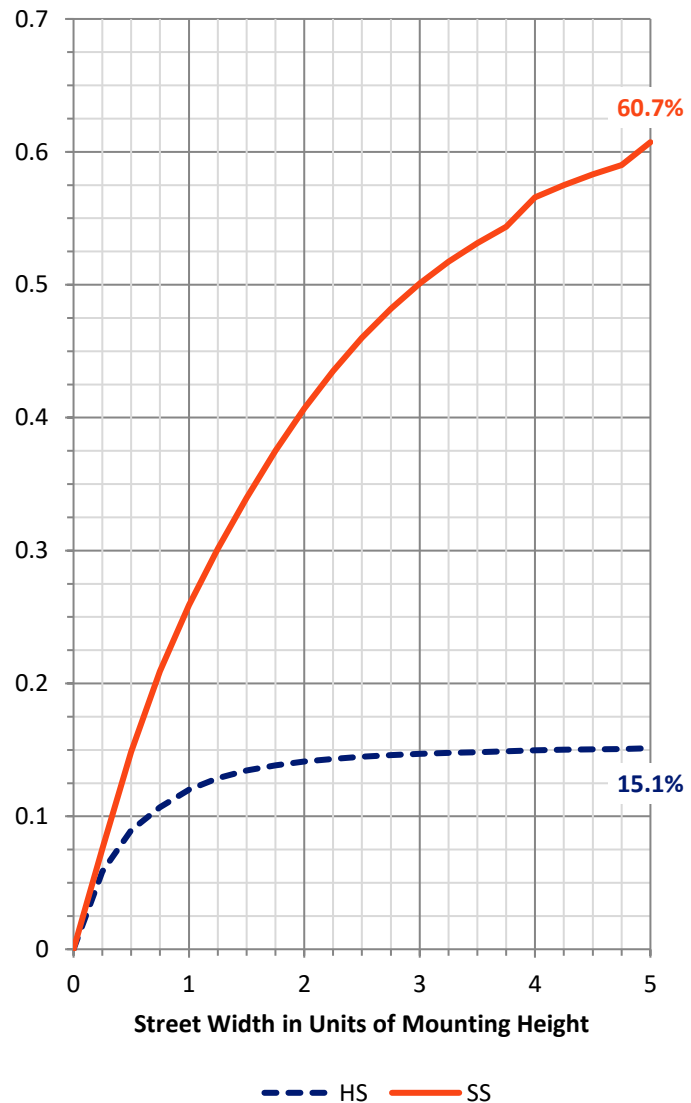
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2671.7	219.8	2891.5
	% Fixture	15.4	1.3	16.7
Street Side	Lumens	11662.3	2792.2	14454.5
	% Fixture	67.2	16.1	83.3
Total	Lumens	14334.1	3011.9	17346.0
	% Fixture	82.6	17.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.6	1.8
10°-20°	846.4	4.9
20°-30°	1206.2	7.0
30°-40°	1440.5	8.3
40°-50°	1656.5	9.5
50°-60°	1908.8	11.0
60°-70°	2391.2	13.8
70°-80°	2854.2	16.5
80°-90°	1722.8	9.9
90°-100°	919.8	5.3
100°-110°	695.7	4.0
110°-120°	542.8	3.1
120°-130°	375.7	2.2
130°-140°	256.9	1.5
140°-150°	142.0	0.8
150°-160°	58.9	0.3
160°-170°	18.3	0.1
170°-180°	1.8	0.0
0°-90°	14334.1	82.6
0°-180°	17346.0	100.0

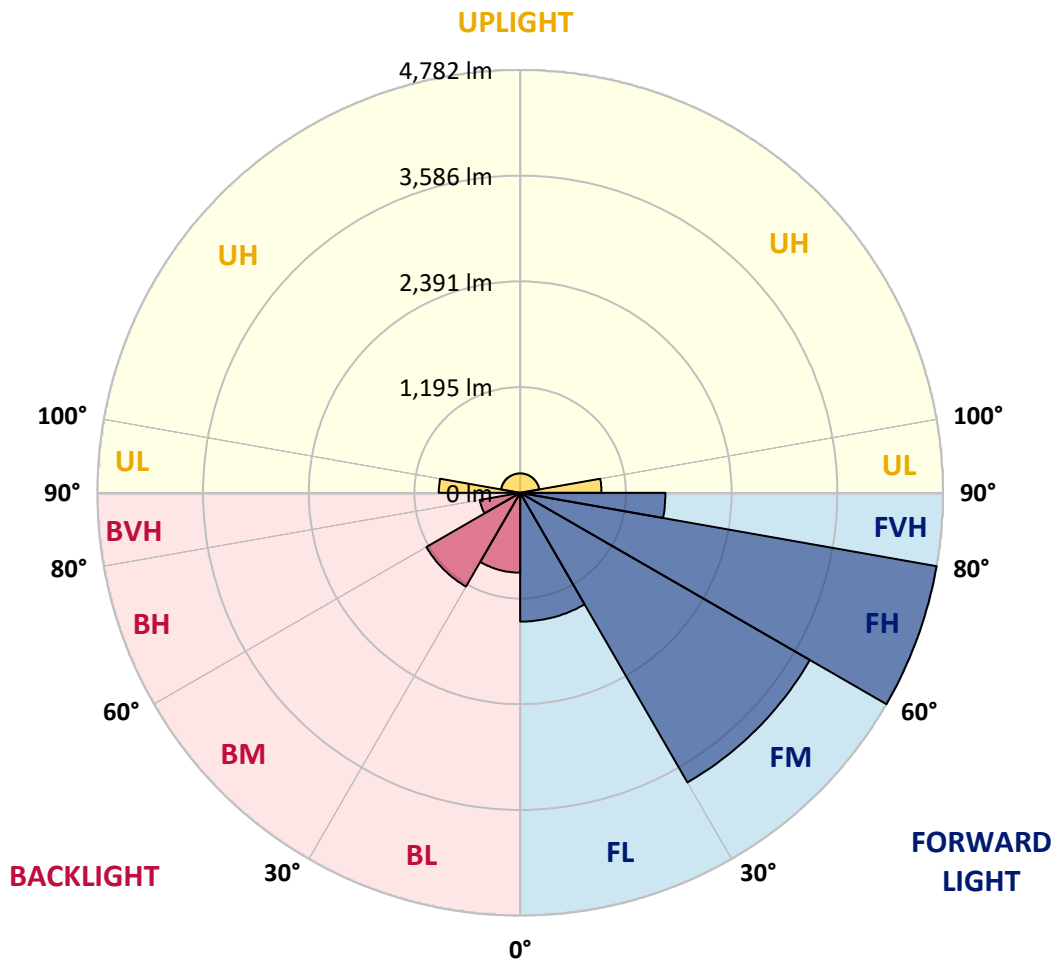


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1456.7	8.4			
FM (30°-60°)	3781.8	21.8			
FH (60°-80°)	4781.7	27.6			G2/5000
FVH (80°-90°)	1642.1	9.5			G5
BL (0°-30°)	903.4	5.2	B2/1000		
BM (30°-60°)	1224.0	7.1	B2/2500		
BH (60°-80°)	463.7	2.7	B1/500		G1/500
BVH (80°-90°)	80.6	0.5			G1/100
UL (90°-100°)	919.8	5.3		U4/1000	
UH (100°-180°)	219.8	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°	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5
2.5°	3359.2	3354.5	3358.0	3359.2	3359.2	3352.1	3341.4	3330.8	3324.8	3305.9	3290.5
5°	3506.3	3494.4	3495.6	3495.6	3483.7	3458.8	3429.2	3399.5	3372.3	3330.8	3299.9
7.5°	3596.4	3595.2	3590.5	3591.6	3576.2	3548.9	3512.2	3465.9	3403.1	3349.7	3291.6
10°	3640.3	3639.1	3636.7	3637.9	3624.8	3594.0	3551.3	3499.1	3428.0	3342.6	3262.0
12.5°	3667.5	3669.9	3661.6	3659.2	3647.4	3620.1	3585.7	3520.5	3447.0	3330.8	3228.8
15°	3699.5	3700.7	3688.9	3688.9	3677.0	3643.8	3595.2	3544.2	3452.9	3328.4	3198.0
17.5°	3726.8	3729.2	3707.8	3707.8	3682.9	3641.4	3595.2	3534.7	3442.2	3304.7	3150.5
20°	3742.2	3742.2	3726.8	3725.6	3687.7	3629.6	3565.5	3494.4	3407.8	3258.4	3081.8
22.5°	3716.1	3717.3	3701.9	3700.7	3675.8	3617.7	3530.0	3452.9	3361.6	3199.2	2997.6
25°	3709.0	3707.8	3687.7	3686.5	3650.9	3602.3	3508.6	3396.0	3297.6	3136.3	2915.8
27.5°	3697.2	3699.5	3678.2	3674.6	3637.9	3566.7	3483.7	3349.7	3227.6	3071.1	2841.1
30°	3673.5	3674.6	3654.5	3649.7	3603.5	3532.3	3424.4	3291.6	3160.0	2995.2	2749.8
32.5°	3659.2	3660.4	3626.0	3618.9	3569.1	3482.5	3359.2	3235.9	3074.6	2913.4	2658.5
35°	3664.0	3659.2	3621.3	3613.0	3540.6	3441.0	3308.2	3170.7	3005.9	2842.2	2568.3
37.5°	3692.4	3687.7	3629.6	3616.5	3534.7	3390.1	3252.5	3104.3	2932.4	2781.8	2479.4
40°	3717.3	3710.2	3656.9	3641.4	3546.6	3375.8	3200.3	3050.9	2894.4	2698.8	2411.8
42.5°	3815.7	3806.3	3707.8	3684.1	3557.2	3358.0	3144.6	2994.0	2832.8	2640.7	2322.9
45°	3980.6	3962.8	3834.7	3801.5	3609.4	3343.8	3122.1	2958.4	2781.8	2533.9	2239.9
47.5°	4157.2	4143.0	4003.1	3962.8	3730.4	3365.2	3105.5	2934.7	2710.6	2492.4	2167.6
50°	4356.4	4341.0	4191.6	4143.0	3877.4	3430.4	3117.3	2894.4	2643.0	2382.2	2054.9
52.5°	4683.7	4649.3	4433.5	4373.0	4067.1	3548.9	3130.4	2884.9	2598.0	2309.8	1995.6
55°	5054.9	5028.8	4807.0	4738.3	4349.3	3715.0	3158.8	2867.1	2549.4	2244.6	1891.3
57.5°	5498.3	5465.1	5181.7	5116.5	4703.9	3930.8	3269.1	2820.9	2523.3	2162.8	1805.9
60°	5963.1	5928.7	5707.0	5638.2	5191.2	4237.9	3464.8	2817.3	2501.9	2102.3	1714.6
62.5°	6328.3	6291.6	6031.9	5988.0	5641.8	4724.0	3715.0	2884.9	2447.4	2046.6	1628.0
65°	6847.7	6797.9	6539.4	6475.4	6062.7	5193.6	4092.0	3032.0	2382.2	2018.1	1539.1
67.5°	7356.4	7335.0	7120.4	7078.9	6746.9	5857.6	4587.7	3299.9	2346.6	1994.4	1446.6
70°	7865.1	7849.7	7742.9	7758.4	7587.6	6654.4	5319.3	3762.4	2418.9	1986.1	1373.1
72.5°	8066.7	8069.0	8174.6	8235.0	8146.1	7084.9	5731.9	4335.1	2632.4	1837.9	1316.2
74°	8142.5	8176.9	8365.5	8412.9	8261.1	7062.3	5675.0	4267.5	2753.3	1732.4	1280.6
75°	8188.8	8231.5	8375.0	8404.6	8195.9	6929.5	5567.1	4127.6	2762.8	1667.2	1255.7
77.5°	8248.1	8281.3	8351.2	8327.5	7809.3	6312.9	5034.7	3780.2	2555.3	1526.1	1189.3
80°	8124.8	8155.6	8118.8	7981.3	7103.8	5525.6	4183.3	3045.0	2198.4	1320.9	1003.1
82.5°	7540.2	7520.0	7090.8	6800.3	5685.7	4183.3	2778.2	2169.9	1796.4	1191.7	693.7
85°	6228.7	6117.3	5172.2	4909.0	4111.0	3010.6	2328.8	1917.4	1600.8	1152.5	477.9
87.5°	4371.9	4286.5	3832.3	3700.7	3230.0	2552.9	2091.7	1759.7	1446.6	1056.5	310.7
90°	3489.7	3448.2	3136.3	3050.9	2773.5	2290.9	1894.8	1586.5	1290.1	895.2	252.6
92.5°	2994.0	2962.0	2741.5	2700.0	2483.0	2100.0	1758.5	1462.0	1139.5	725.7	228.8
95°	2607.5	2581.4	2408.3	2402.3	2268.3	1961.2	1656.5	1380.2	1012.6	583.4	231.2
97.5°	2314.6	2295.6	2199.6	2207.9	2109.4	1836.7	1537.9	1312.6	891.7	490.9	244.3
100°	2116.6	2103.5	2027.6	2051.3	1977.8	1731.2	1464.4	1207.1	806.3	426.9	262.1
102.5°	1990.9	1981.4	1926.8	1957.7	1877.0	1662.4	1402.7	1120.5	729.2	425.7	284.6
105°	1885.3	1880.6	1852.1	1884.2	1836.7	1590.1	1329.2	1036.3	674.7	436.4	303.6
107.5°	1816.6	1815.4	1786.9	1810.6	1724.1	1510.6	1236.7	975.9	659.3	447.0	315.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	17°	25°	35°	45°	55°	65°	75°	85°
110°	1685.0	1687.3	1693.3	1712.2	1647.0	1428.8	1166.8	909.5	658.1	450.6	316.6
112.5°	1632.8	1630.4	1630.4	1641.1	1547.4	1343.5	1133.6	860.9	627.3	449.4	309.5
115°	1559.3	1559.3	1554.5	1553.3	1453.7	1255.7	1075.5	828.8	603.5	437.5	296.4
117.5°	1478.6	1479.8	1459.7	1460.8	1354.1	1202.4	986.5	798.0	578.6	416.2	278.7
120°	1371.9	1368.4	1351.8	1349.4	1262.8	1115.8	904.7	713.8	539.5	399.6	258.5
122.5°	1265.2	1266.4	1248.6	1246.2	1170.3	1003.1	873.9	668.8	517.0	377.1	240.7
125°	1165.6	1166.8	1160.8	1154.9	1056.5	951.0	787.3	634.4	489.7	355.7	222.9
127.5°	1080.2	1083.8	1039.9	1026.9	986.5	914.2	724.5	579.8	467.2	329.6	203.9
130°	988.9	990.1	997.2	1000.8	961.6	809.9	705.5	564.4	445.8	305.9	186.2
132.5°	983.0	981.8	955.7	940.3	859.7	771.9	632.0	533.6	416.2	287.0	169.6
135°	898.8	894.1	865.6	858.5	819.4	743.5	646.2	531.2	409.1	269.2	154.1
137.5°	909.5	905.9	909.5	910.7	858.5	745.8	658.1	531.2	391.3	247.8	139.9
140°	913.0	911.8	870.3	860.9	817.0	763.6	632.0	496.8	352.2	218.2	125.7
142.5°	738.7	744.7	735.2	734.0	724.5	604.7	534.8	405.5	295.3	190.9	113.8
145°	613.0	616.6	575.1	562.0	527.7	508.7	429.2	339.1	254.9	170.7	102.0
147.5°	460.1	462.4	470.7	475.5	470.7	406.7	351.0	298.8	220.5	154.1	90.1
150°	429.2	429.2	406.7	409.1	386.6	355.7	321.3	276.3	201.6	138.7	79.4
152.5°	364.0	364.0	371.1	372.3	342.7	320.2	287.0	237.1	182.6	124.5	70.0
155°	316.6	320.2	311.9	311.9	314.2	283.4	251.4	202.8	161.3	110.3	64.0
157.5°	290.5	295.3	279.8	278.7	271.5	249.0	208.7	177.9	136.4	96.0	60.5
160°	254.9	257.3	246.6	244.3	224.1	200.4	174.3	148.2	115.0	83.0	54.5
162.5°	195.6	199.2	189.7	188.5	176.7	164.8	145.8	119.8	93.7	68.8	47.4
165°	160.1	161.3	157.7	157.7	151.8	130.4	113.8	96.0	74.7	53.4	39.1
167.5°	120.9	123.3	119.8	120.9	115.0	103.2	88.9	72.3	54.5	39.1	30.8
170°	94.9	96.0	93.7	93.7	87.7	75.9	60.5	47.4	36.8	24.9	23.7
172.5°	66.4	67.6	61.7	62.8	52.2	43.9	35.6	28.5	22.5	19.0	19.0
175°	8.3	10.7	20.2	20.2	22.5	20.2	19.0	15.4	14.2	15.4	15.4
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°	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5
2.5°	3282.2	3272.7	3247.8	3224.1	3192.0	3164.8	3141.1	3122.1	3119.7	3107.8	3106.7
5°	3282.2	3264.4	3214.6	3160.0	3109.0	3066.3	3024.8	2989.3	2977.4	2959.6	2956.1
7.5°	3266.7	3237.1	3164.8	3088.9	3005.9	2933.5	2871.9	2815.0	2791.3	2766.4	2759.2
10°	3231.2	3189.7	3090.1	2985.7	2876.6	2773.5	2684.5	2601.5	2563.6	2538.7	2529.2
12.5°	3192.0	3138.7	3016.5	2875.4	2734.3	2600.3	2492.4	2403.5	2340.7	2301.5	2289.7
15°	3150.5	3082.9	2928.8	2761.6	2577.8	2434.3	2286.1	2172.3	2101.1	2057.3	2044.2
17.5°	3092.4	3011.8	2830.4	2626.4	2418.9	2224.5	2063.2	1939.9	1860.4	1814.2	1800.0
20°	3011.8	2914.6	2704.7	2469.9	2225.7	2009.8	1840.3	1715.8	1636.3	1587.7	1571.1
22.5°	2925.2	2812.6	2573.1	2311.0	2041.9	1813.0	1635.1	1514.2	1435.9	1392.1	1395.6
25°	2833.9	2711.8	2446.2	2148.6	1847.4	1626.8	1454.9	1348.2	1268.8	1233.2	1233.2
27.5°	2742.6	2607.5	2315.8	1984.9	1673.1	1459.7	1303.1	1205.9	1141.9	1119.3	1119.3
30°	2640.7	2492.4	2168.7	1815.4	1520.1	1313.8	1170.3	1098.0	1070.7	1058.9	1058.9
32.5°	2528.0	2379.8	2037.1	1654.1	1376.7	1184.6	1064.8	1036.3	1022.1	1018.6	1019.7
35°	2432.0	2268.3	1899.6	1504.7	1249.8	1074.3	1002.0	993.7	987.7	985.4	985.4
37.5°	2343.0	2167.6	1760.8	1377.8	1138.3	988.9	959.3	961.6	993.7	1050.6	1055.3
40°	2245.8	2069.1	1625.7	1256.9	1039.9	928.4	926.1	961.6	1117.0	1170.3	1169.1
42.5°	2162.8	1964.8	1501.2	1154.9	953.3	885.8	892.9	1063.6	1117.0	1105.1	1107.5
45°	2056.1	1874.7	1392.1	1048.2	877.5	847.8	909.5	1066.0	1056.5	1010.3	1010.3
47.5°	1982.6	1753.7	1286.5	956.9	818.2	813.4	988.9	999.6	888.1	817.0	815.8
50°	1872.3	1673.1	1171.5	871.5	774.3	790.9	936.7	888.1	795.6	749.4	748.2
52.5°	1778.6	1547.4	1060.1	799.2	737.5	787.3	866.8	799.2	724.5	699.6	699.6
55°	1690.9	1456.1	958.1	734.0	702.0	808.7	762.4	730.4	671.1	633.2	630.8
57.5°	1565.2	1300.8	849.0	678.2	665.2	748.2	696.0	661.6	600.0	553.7	550.2
60°	1469.1	1182.2	743.5	630.8	627.3	672.3	658.1	594.1	521.7	489.7	487.3
62.5°	1354.1	1092.1	655.7	584.6	582.2	589.3	608.3	526.5	467.2	441.1	438.7
65°	1249.8	973.5	586.9	538.3	539.5	526.5	558.5	464.8	418.6	392.5	392.5
67.5°	1144.2	860.9	522.9	488.5	513.4	490.9	511.1	413.8	375.9	351.0	348.6
70°	1045.8	751.8	460.1	444.7	469.6	451.8	448.2	364.0	329.6	305.9	303.6
72.5°	956.9	647.4	402.0	399.6	418.6	416.2	384.2	315.4	282.2	260.9	256.1
74°	901.2	585.8	367.6	373.5	391.3	393.7	349.8	285.8	252.6	234.8	228.8
75°	866.8	538.3	343.9	355.7	374.7	377.1	326.1	264.4	233.6	215.8	209.9
77.5°	757.7	412.6	291.7	324.9	341.5	334.4	272.7	213.4	188.5	170.7	166.0
80°	595.2	294.1	244.3	294.1	311.9	281.0	214.6	167.2	141.1	126.9	124.5
82.5°	417.4	205.1	199.2	236.0	258.5	226.5	163.6	123.3	102.0	91.3	88.9
85°	257.3	150.6	162.4	188.5	199.2	167.2	120.9	96.0	74.7	62.8	60.5
87.5°	163.6	124.5	132.8	164.8	151.8	119.8	92.5	70.0	52.2	40.3	39.1
90°	132.8	122.1	123.3	158.9	124.5	93.7	68.8	47.4	23.7	11.9	10.7
92.5°	136.4	132.8	135.2	167.2	122.1	88.9	64.0	43.9	20.2	8.3	7.1
95°	170.7	154.1	155.3	164.8	125.7	90.1	64.0	43.9	20.2	7.1	5.9
97.5°	200.4	179.0	167.2	158.9	126.9	91.3	62.8	41.5	19.0	5.9	4.7
100°	220.5	199.2	167.2	154.1	125.7	90.1	61.7	39.1	17.8	4.7	4.7
102.5°	239.5	214.6	171.9	151.8	124.5	87.7	59.3	36.8	16.6	4.7	3.6
105°	254.9	225.3	179.0	149.4	123.3	85.4	56.9	34.4	15.4	3.6	2.4
107.5°	262.1	228.8	182.6	145.8	123.3	83.0	54.5	32.0	13.0	2.4	1.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	260.9	227.7	180.2	145.8	124.5	81.8	52.2	29.6	11.9	1.2	0.0
112.5°	253.8	221.7	174.3	147.0	119.8	83.0	49.8	28.5	10.7	1.2	0.0
115°	243.1	213.4	167.2	147.0	113.8	81.8	47.4	26.1	8.3	0.0	0.0
117.5°	228.8	202.8	160.1	144.7	107.9	78.3	45.1	23.7	7.1	0.0	0.0
120°	214.6	190.9	153.0	141.1	104.3	73.5	43.9	22.5	5.9	0.0	0.0
122.5°	199.2	179.0	145.8	135.2	102.0	67.6	40.3	20.2	4.7	0.0	0.0
125°	183.8	166.0	137.5	131.6	96.0	62.8	36.8	17.8	3.6	0.0	0.0
127.5°	169.6	153.0	128.1	128.1	87.7	60.5	33.2	15.4	3.6	0.0	0.0
130°	154.1	139.9	119.8	122.1	80.6	56.9	30.8	14.2	2.4	0.0	0.0
132.5°	139.9	126.9	111.5	113.8	73.5	54.5	28.5	11.9	2.4	0.0	0.0
135°	126.9	117.4	103.2	104.3	67.6	52.2	24.9	10.7	2.4	0.0	0.0
137.5°	115.0	107.9	97.2	93.7	61.7	48.6	22.5	8.3	1.2	0.0	0.0
140°	106.7	99.6	94.9	84.2	55.7	45.1	20.2	7.1	1.2	0.0	0.0
142.5°	97.2	92.5	93.7	74.7	51.0	40.3	17.8	5.9	1.2	0.0	0.0
145°	86.6	84.2	88.9	64.0	46.2	36.8	15.4	5.9	1.2	0.0	0.0
147.5°	79.4	78.3	85.4	54.5	41.5	33.2	14.2	4.7	1.2	0.0	0.0
150°	73.5	73.5	77.1	46.2	36.8	28.5	11.9	4.7	0.0	0.0	0.0
152.5°	67.6	70.0	67.6	40.3	32.0	24.9	9.5	4.7	0.0	0.0	0.0
155°	62.8	64.0	58.1	35.6	27.3	20.2	9.5	3.6	0.0	0.0	0.0
157.5°	60.5	60.5	51.0	30.8	22.5	15.4	8.3	3.6	0.0	0.0	0.0
160°	55.7	55.7	43.9	27.3	19.0	13.0	7.1	3.6	0.0	0.0	0.0
162.5°	48.6	47.4	36.8	23.7	16.6	10.7	7.1	3.6	0.0	0.0	0.0
165°	39.1	36.8	28.5	20.2	13.0	9.5	5.9	3.6	0.0	0.0	0.0
167.5°	29.6	28.5	21.3	15.4	10.7	8.3	5.9	3.6	0.0	0.0	0.0
170°	22.5	21.3	16.6	11.9	9.5	8.3	5.9	3.6	0.0	0.0	0.0
172.5°	17.8	17.8	14.2	10.7	9.5	8.3	5.9	2.4	0.0	0.0	0.0
175°	15.4	14.2	11.9	10.7	9.5	5.9	4.7	2.4	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)