

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: P232430

Luminaire Tested: **AXCL12ARL-C**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232430  
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-C  
Description: AXCENT RL WALLPACK  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17052 lumens  
Efficiency: N/A  
Efficacy: 138.2 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

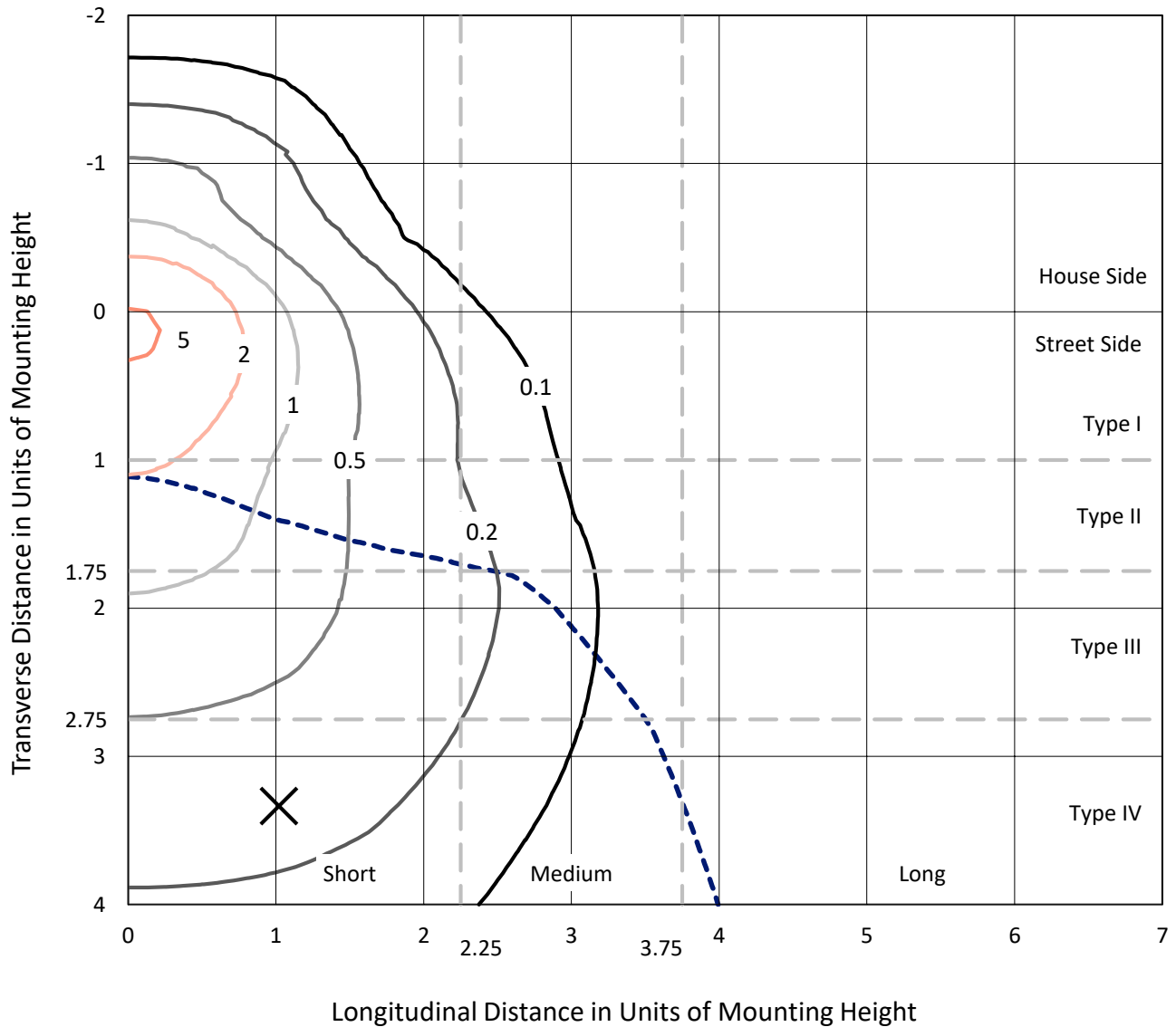
Input Watts (W): 123.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

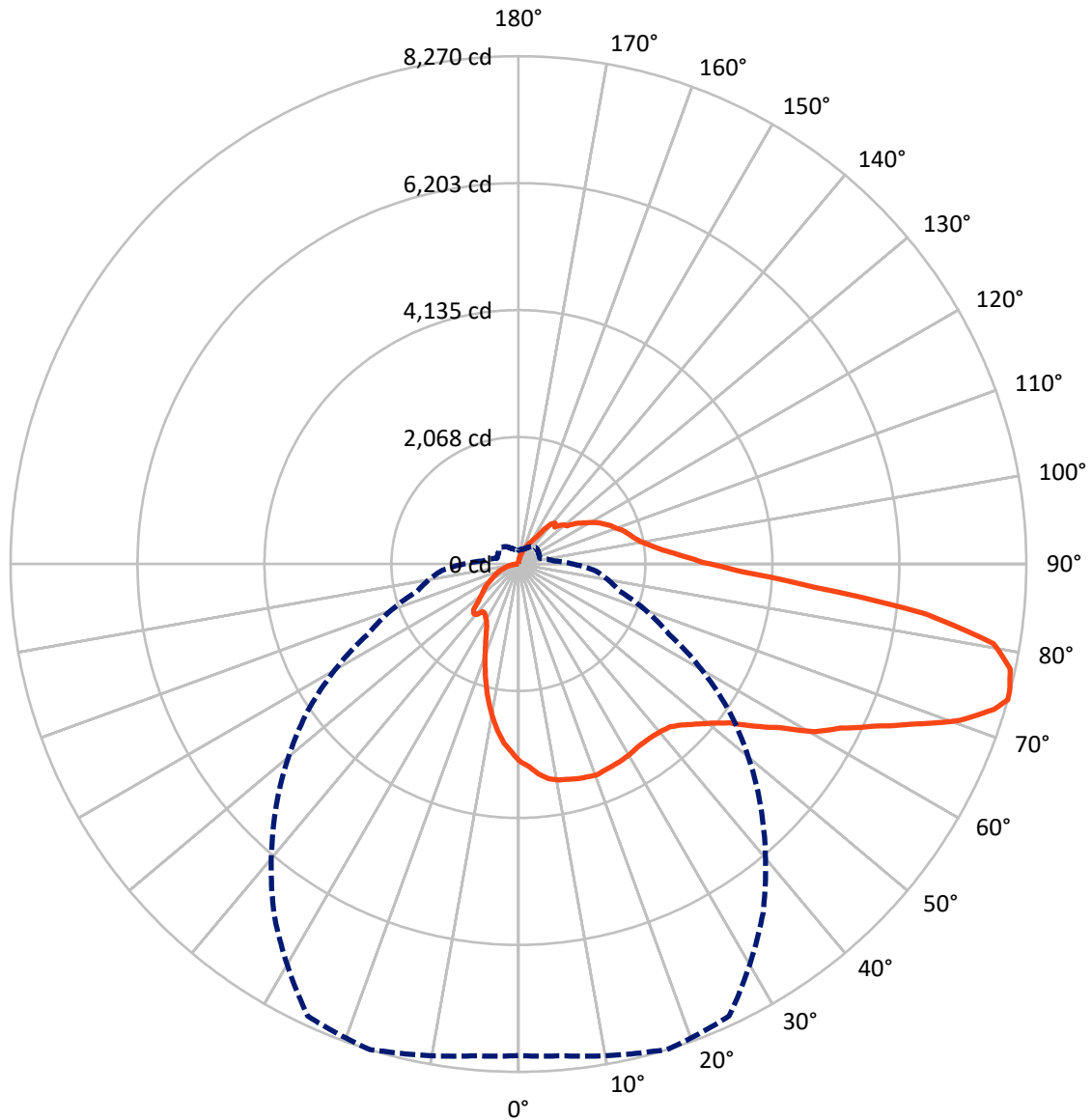
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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
<b>House Side</b>	Lumens	2626.5	216.0	2842.5
	% Fixture	15.4	1.3	16.7
<b>Street Side</b>	Lumens	11464.7	2744.8	14209.5
	% Fixture	67.2	16.1	83.3
<b>Total</b>	Lumens	14091.1	2960.9	17052.0
	% Fixture	82.6	17.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.4	1.8
10°-20°	832.0	4.9
20°-30°	1185.8	7.0
30°-40°	1416.1	8.3
40°-50°	1628.4	9.5
50°-60°	1876.4	11.0
60°-70°	2350.6	13.8
70°-80°	2805.9	16.5
80°-90°	1693.6	9.9
90°-100°	904.2	5.3
100°-110°	684.0	4.0
110°-120°	533.6	3.1
120°-130°	369.3	2.2
130°-140°	252.5	1.5
140°-150°	139.6	0.8
150°-160°	57.9	0.3
160°-170°	18.0	0.1
170°-180°	1.8	0.0
0°-90°	14091.1	82.6
0°-180°	17052.0	100.0

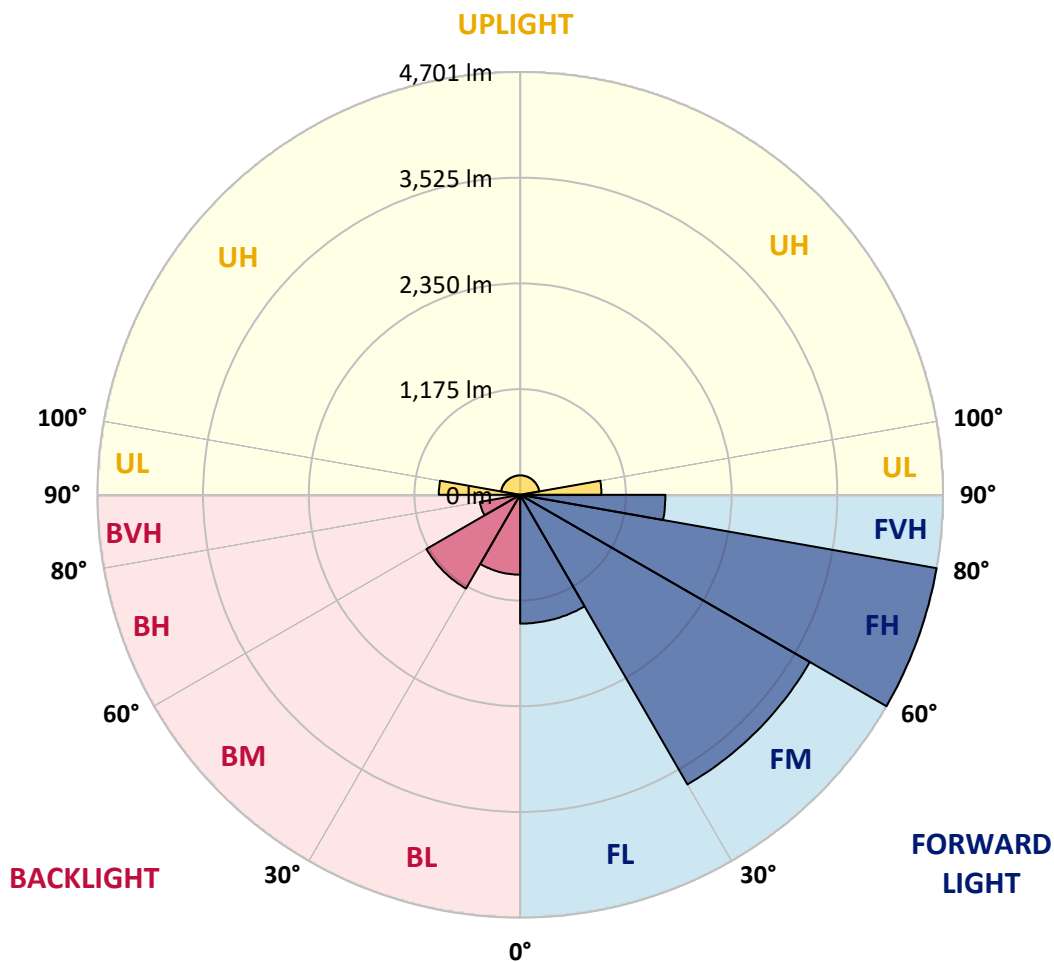


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1432.0	8.4			
FM (30°-60°)	3717.7	21.8			
FH (60°-80°)	4700.6	27.6			G2/5000
FVH (80°-90°)	1614.3	9.5			G5
BL (0°-30°)	888.1	5.2	B2/1000		
BM (30°-60°)	1203.2	7.1	B2/2500		
BH (60°-80°)	455.9	2.7	B1/500		G1/500
BVH (80°-90°)	79.3	0.5			G1/100
UL (90°-100°)	904.2	5.3		U4/1000	
UH (100°-180°)	216.0	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°	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0
2.5°	3302.3	3297.6	3301.1	3302.3	3302.3	3295.3	3284.8	3274.3	3268.5	3249.8	3234.7
5°	3446.8	3435.2	3436.3	3436.3	3424.7	3400.2	3371.1	3341.9	3315.1	3274.3	3244.0
7.5°	3535.4	3534.3	3529.6	3530.8	3515.6	3488.8	3452.7	3407.2	3345.4	3293.0	3235.9
10°	3578.6	3577.4	3575.1	3576.2	3563.4	3533.1	3491.1	3439.8	3369.9	3286.0	3206.7
12.5°	3605.4	3607.7	3599.5	3597.2	3585.5	3558.7	3524.9	3460.8	3388.6	3274.3	3174.1
15°	3636.8	3638.0	3626.3	3626.3	3614.7	3582.1	3534.3	3484.1	3394.4	3272.0	3143.8
17.5°	3663.6	3666.0	3645.0	3645.0	3620.5	3579.7	3534.3	3474.8	3383.9	3248.7	3097.1
20°	3678.8	3678.8	3663.6	3662.5	3625.2	3568.1	3505.1	3435.2	3350.1	3203.2	3029.5
22.5°	3653.2	3654.3	3639.2	3638.0	3613.5	3556.4	3470.1	3394.4	3304.6	3144.9	2946.8
25°	3646.2	3645.0	3625.2	3624.0	3589.0	3541.3	3449.2	3338.4	3241.7	3083.2	2866.3
27.5°	3634.5	3636.8	3615.9	3612.4	3576.2	3506.3	3424.7	3293.0	3172.9	3019.0	2792.9
30°	3611.2	3612.4	3592.5	3587.9	3542.4	3472.5	3366.4	3235.9	3106.5	2944.4	2703.1
32.5°	3597.2	3598.4	3564.6	3557.6	3508.6	3423.5	3302.3	3181.1	3022.5	2864.0	2613.4
35°	3601.9	3597.2	3559.9	3551.7	3480.6	3382.7	3252.2	3117.0	2954.9	2794.1	2524.8
37.5°	3629.8	3625.2	3568.1	3555.2	3474.8	3332.6	3197.4	3051.7	2882.7	2734.6	2437.4
40°	3654.3	3647.3	3594.9	3579.7	3486.5	3318.6	3146.1	2999.2	2845.4	2653.0	2370.9
42.5°	3751.1	3741.7	3645.0	3621.7	3497.0	3301.1	3091.3	2943.3	2784.7	2595.9	2283.5
45°	3913.1	3895.6	3769.7	3737.1	3548.2	3287.1	3069.2	2908.3	2734.6	2491.0	2201.9
47.5°	4086.8	4072.8	3935.2	3895.6	3667.1	3308.1	3052.8	2885.0	2664.7	2450.2	2130.8
50°	4282.6	4267.5	4120.6	4072.8	3811.7	3372.2	3064.5	2845.4	2598.2	2341.8	2020.1
52.5°	4604.3	4570.5	4358.4	4298.9	3998.2	3488.8	3077.3	2836.0	2553.9	2270.7	1961.8
55°	4969.2	4943.5	4725.6	4657.9	4275.6	3652.0	3105.3	2818.5	2506.2	2206.6	1859.2
57.5°	5405.1	5372.5	5093.9	5029.8	4624.1	3864.1	3213.7	2773.1	2480.5	2126.2	1775.3
60°	5862.1	5828.3	5610.3	5542.7	5103.2	4166.0	3406.0	2769.6	2459.5	2066.7	1685.5
62.5°	6221.1	6185.0	5929.7	5886.5	5546.2	4644.0	3652.0	2836.0	2405.9	2011.9	1600.4
65°	6731.6	6682.7	6428.6	6365.6	5960.0	5105.6	4022.7	2980.6	2341.8	1983.9	1513.0
67.5°	7231.7	7210.7	6999.7	6958.9	6632.6	5758.3	4509.9	3244.0	2306.8	1960.6	1422.1
70°	7731.8	7716.6	7611.7	7626.9	7459.0	6541.6	5229.1	3698.6	2377.9	1952.5	1349.8
72.5°	7929.9	7932.3	8036.0	8095.5	8008.0	6964.8	5634.8	4261.6	2587.7	1806.8	1293.9
74°	8004.5	8038.3	8223.7	8270.3	8121.1	6942.6	5578.8	4195.2	2706.6	1703.0	1258.9
75°	8050.0	8092.0	8233.0	8262.1	8057.0	6812.1	5472.7	4057.6	2716.0	1638.9	1234.4
77.5°	8108.3	8140.9	8209.7	8186.4	7677.0	6205.9	4949.4	3716.1	2512.0	1500.2	1169.1
80°	7987.1	8017.4	7981.2	7846.0	6983.4	5431.9	4112.4	2993.4	2161.1	1298.5	986.1
82.5°	7412.4	7392.6	6970.6	6685.0	5589.3	4112.4	2731.1	2133.1	1766.0	1171.5	681.9
85°	6123.2	6013.6	5084.6	4825.8	4041.3	2959.6	2289.3	1884.9	1573.6	1133.0	469.8
87.5°	4297.8	4213.8	3767.4	3638.0	3175.2	2509.7	2056.2	1729.8	1422.1	1038.6	305.4
90°	3430.5	3389.7	3083.2	2999.2	2726.5	2252.0	1862.7	1559.6	1268.2	880.1	248.3
92.5°	2943.3	2911.8	2695.0	2654.2	2440.9	2064.4	1728.7	1437.2	1120.2	713.4	225.0
95°	2563.3	2537.6	2367.4	2361.6	2229.9	1928.0	1628.4	1356.8	995.5	573.5	227.3
97.5°	2275.4	2256.7	2162.3	2170.4	2073.7	1805.6	1511.9	1290.4	876.6	482.6	240.1
100°	2080.7	2067.9	1993.3	2016.6	1944.3	1701.9	1439.6	1186.6	792.6	419.6	257.6
102.5°	1957.1	1947.8	1894.2	1924.5	1845.2	1634.2	1379.0	1101.5	716.9	418.5	279.8
105°	1853.4	1848.7	1820.7	1852.2	1805.6	1563.1	1306.7	1018.8	663.3	429.0	298.4
107.5°	1785.8	1784.6	1756.6	1780.0	1694.9	1485.0	1215.8	959.3	648.1	439.5	310.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	17°	25°	35°	45°	55°	65°	75°	85°
110°	1656.4	1658.7	1664.6	1683.2	1619.1	1404.6	1147.0	894.1	646.9	442.9	311.2
112.5°	1605.1	1602.8	1602.8	1613.3	1521.2	1320.7	1114.4	846.3	616.6	441.8	304.2
115°	1532.8	1532.8	1528.2	1527.0	1429.1	1234.4	1057.2	814.8	593.3	430.1	291.4
117.5°	1453.6	1454.7	1434.9	1436.1	1331.2	1182.0	969.8	784.5	568.8	409.1	273.9
120°	1348.7	1345.2	1328.8	1326.5	1241.4	1096.9	889.4	701.7	530.4	392.8	254.1
122.5°	1243.8	1244.9	1227.4	1225.1	1150.5	986.1	859.1	657.4	508.2	370.7	236.6
125°	1145.8	1147.0	1141.2	1135.3	1038.6	934.9	774.0	623.6	481.4	349.7	219.1
127.5°	1061.9	1065.4	1022.3	1009.5	969.8	898.7	712.2	570.0	459.3	324.1	200.5
130°	972.2	973.3	980.3	983.8	945.3	796.1	693.6	554.9	438.3	300.7	183.0
132.5°	966.3	965.2	939.5	924.4	845.1	758.8	621.3	524.5	409.1	282.1	166.7
135°	883.6	878.9	850.9	843.9	805.5	730.9	635.3	522.2	402.2	264.6	151.5
137.5°	894.1	890.6	894.1	895.2	843.9	733.2	646.9	522.2	384.7	243.6	137.5
140°	897.6	896.4	855.6	846.3	803.1	750.7	621.3	488.4	346.2	214.5	123.6
142.5°	726.2	732.0	722.7	721.5	712.2	594.5	525.7	398.7	290.2	187.7	111.9
145°	602.6	606.1	565.3	552.5	518.7	500.1	422.0	333.4	250.6	167.9	100.2
147.5°	452.3	454.6	462.8	467.4	462.8	399.8	345.0	293.7	216.8	151.5	88.6
150°	422.0	422.0	399.8	402.2	380.0	349.7	315.9	271.6	198.2	136.4	78.1
152.5°	357.9	357.9	364.8	366.0	336.9	314.7	282.1	233.1	179.5	122.4	68.8
155°	311.2	314.7	306.6	306.6	308.9	278.6	247.1	199.3	158.5	108.4	62.9
157.5°	285.6	290.2	275.1	273.9	266.9	244.8	205.2	174.8	134.1	94.4	59.4
160°	250.6	252.9	242.5	240.1	220.3	197.0	171.4	145.7	113.1	81.6	53.6
162.5°	192.3	195.8	186.5	185.3	173.7	162.0	143.4	117.7	92.1	67.6	46.6
165°	157.4	158.5	155.0	155.0	149.2	128.2	111.9	94.4	73.4	52.5	38.5
167.5°	118.9	121.2	117.7	118.9	113.1	101.4	87.4	71.1	53.6	38.5	30.3
170°	93.3	94.4	92.1	92.1	86.3	74.6	59.4	46.6	36.1	24.5	23.3
172.5°	65.3	66.4	60.6	61.8	51.3	43.1	35.0	28.0	22.1	18.7	18.7
175°	8.2	10.5	19.8	19.8	22.1	19.8	18.7	15.2	14.0	15.2	15.2
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°	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0	3216.0
2.5°	3226.5	3217.2	3192.7	3169.4	3137.9	3111.1	3087.8	3069.2	3066.8	3055.2	3054.0
5°	3226.5	3209.0	3160.1	3106.5	3056.3	3014.4	2973.6	2938.6	2927.0	2909.5	2906.0
7.5°	3211.4	3182.2	3111.1	3036.5	2954.9	2883.8	2823.2	2767.3	2743.9	2719.5	2712.5
10°	3176.4	3135.6	3037.7	2935.1	2827.9	2726.5	2639.0	2557.4	2520.1	2495.7	2486.3
12.5°	3137.9	3085.5	2965.4	2826.7	2688.0	2556.3	2450.2	2362.8	2301.0	2262.5	2250.9
15°	3097.1	3030.7	2879.2	2714.8	2534.1	2393.1	2247.4	2135.5	2065.5	2022.4	2009.6
17.5°	3040.0	2960.8	2782.4	2581.9	2377.9	2186.8	2028.2	1907.0	1828.9	1783.4	1769.5
20°	2960.8	2865.2	2658.9	2428.1	2187.9	1975.8	1809.1	1686.7	1608.6	1560.8	1544.5
22.5°	2875.7	2764.9	2529.5	2271.9	2007.3	1782.3	1607.4	1488.5	1411.6	1368.5	1372.0
25°	2785.9	2665.8	2404.7	2112.2	1816.1	1599.3	1430.3	1325.3	1247.2	1212.3	1212.3
27.5°	2696.2	2563.3	2276.5	1951.3	1644.7	1434.9	1281.1	1185.5	1122.5	1100.4	1100.4
30°	2595.9	2450.2	2132.0	1784.6	1494.4	1291.5	1150.5	1079.4	1052.6	1040.9	1040.9
32.5°	2485.2	2339.5	2002.6	1626.1	1353.3	1164.5	1046.8	1018.8	1004.8	1001.3	1002.5
35°	2390.8	2229.9	1867.4	1479.2	1228.6	1056.1	985.0	976.8	971.0	968.7	968.7
37.5°	2303.3	2130.8	1731.0	1354.5	1119.0	972.2	943.0	945.3	976.8	1032.8	1037.4
40°	2207.7	2034.1	1598.1	1235.6	1022.3	912.7	910.4	945.3	1098.0	1150.5	1149.3
42.5°	2126.2	1931.5	1475.7	1135.3	937.2	870.7	877.7	1045.6	1098.0	1086.4	1088.7
45°	2021.2	1842.9	1368.5	1030.4	862.6	833.4	894.1	1047.9	1038.6	993.1	993.1
47.5°	1949.0	1724.0	1264.7	940.7	804.3	799.6	972.2	982.6	873.1	803.1	802.0
50°	1840.6	1644.7	1151.7	856.8	761.2	777.5	920.9	873.1	782.2	736.7	735.5
52.5°	1748.5	1521.2	1042.1	785.6	725.0	774.0	852.1	785.6	712.2	687.7	687.7
55°	1662.2	1431.4	941.8	721.5	690.1	795.0	749.5	718.0	659.8	622.5	620.1
57.5°	1538.7	1278.7	834.6	666.8	653.9	735.5	684.2	650.4	589.8	544.4	540.9
60°	1444.2	1162.2	730.9	620.1	616.6	660.9	646.9	584.0	512.9	481.4	479.1
62.5°	1331.2	1073.6	644.6	574.7	572.3	579.3	598.0	517.5	459.3	433.6	431.3
65°	1228.6	957.0	577.0	529.2	530.4	517.5	549.0	456.9	411.5	385.8	385.8
67.5°	1124.9	846.3	514.1	480.2	504.7	482.6	502.4	406.8	369.5	345.0	342.7
70°	1028.1	739.0	452.3	437.1	461.6	444.1	440.6	357.9	324.1	300.7	298.4
72.5°	940.7	636.4	395.2	392.8	411.5	409.1	377.7	310.1	277.4	256.4	251.8
74°	885.9	575.8	361.4	367.2	384.7	387.0	343.9	280.9	248.3	230.8	225.0
75°	852.1	529.2	338.0	349.7	368.3	370.7	320.6	259.9	229.6	212.1	206.3
77.5°	744.9	405.6	286.8	319.4	335.7	328.7	268.1	209.8	185.3	167.9	163.2
80°	585.2	289.1	240.1	289.1	306.6	276.3	211.0	164.4	138.7	124.7	122.4
82.5°	410.3	201.7	195.8	232.0	254.1	222.6	160.9	121.2	100.2	89.8	87.4
85°	252.9	148.0	159.7	185.3	195.8	164.4	118.9	94.4	73.4	61.8	59.4
87.5°	160.9	122.4	130.6	162.0	149.2	117.7	90.9	68.8	51.3	39.6	38.5
90°	130.6	120.1	121.2	156.2	122.4	92.1	67.6	46.6	23.3	11.7	10.5
92.5°	134.1	130.6	132.9	164.4	120.1	87.4	62.9	43.1	19.8	8.2	7.0
95°	167.9	151.5	152.7	162.0	123.6	88.6	62.9	43.1	19.8	7.0	5.8
97.5°	197.0	176.0	164.4	156.2	124.7	89.8	61.8	40.8	18.7	5.8	4.7
100°	216.8	195.8	164.4	151.5	123.6	88.6	60.6	38.5	17.5	4.7	4.7
102.5°	235.5	211.0	169.0	149.2	122.4	86.3	58.3	36.1	16.3	4.7	3.5
105°	250.6	221.5	176.0	146.9	121.2	83.9	56.0	33.8	15.2	3.5	2.3
107.5°	257.6	225.0	179.5	143.4	121.2	81.6	53.6	31.5	12.8	2.3	1.2



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	256.4	223.8	177.2	143.4	122.4	80.4	51.3	29.1	11.7	1.2	0.0
112.5°	249.4	218.0	171.4	144.5	117.7	81.6	49.0	28.0	10.5	1.2	0.0
115°	239.0	209.8	164.4	144.5	111.9	80.4	46.6	25.6	8.2	0.0	0.0
117.5°	225.0	199.3	157.4	142.2	106.1	76.9	44.3	23.3	7.0	0.0	0.0
120°	211.0	187.7	150.4	138.7	102.6	72.3	43.1	22.1	5.8	0.0	0.0
122.5°	195.8	176.0	143.4	132.9	100.2	66.4	39.6	19.8	4.7	0.0	0.0
125°	180.7	163.2	135.2	129.4	94.4	61.8	36.1	17.5	3.5	0.0	0.0
127.5°	166.7	150.4	125.9	125.9	86.3	59.4	32.6	15.2	3.5	0.0	0.0
130°	151.5	137.5	117.7	120.1	79.3	56.0	30.3	14.0	2.3	0.0	0.0
132.5°	137.5	124.7	109.6	111.9	72.3	53.6	28.0	11.7	2.3	0.0	0.0
135°	124.7	115.4	101.4	102.6	66.4	51.3	24.5	10.5	2.3	0.0	0.0
137.5°	113.1	106.1	95.6	92.1	60.6	47.8	22.1	8.2	1.2	0.0	0.0
140°	104.9	97.9	93.3	82.8	54.8	44.3	19.8	7.0	1.2	0.0	0.0
142.5°	95.6	90.9	92.1	73.4	50.1	39.6	17.5	5.8	1.2	0.0	0.0
145°	85.1	82.8	87.4	62.9	45.5	36.1	15.2	5.8	1.2	0.0	0.0
147.5°	78.1	76.9	83.9	53.6	40.8	32.6	14.0	4.7	1.2	0.0	0.0
150°	72.3	72.3	75.8	45.5	36.1	28.0	11.7	4.7	0.0	0.0	0.0
152.5°	66.4	68.8	66.4	39.6	31.5	24.5	9.3	4.7	0.0	0.0	0.0
155°	61.8	62.9	57.1	35.0	26.8	19.8	9.3	3.5	0.0	0.0	0.0
157.5°	59.4	59.4	50.1	30.3	22.1	15.2	8.2	3.5	0.0	0.0	0.0
160°	54.8	54.8	43.1	26.8	18.7	12.8	7.0	3.5	0.0	0.0	0.0
162.5°	47.8	46.6	36.1	23.3	16.3	10.5	7.0	3.5	0.0	0.0	0.0
165°	38.5	36.1	28.0	19.8	12.8	9.3	5.8	3.5	0.0	0.0	0.0
167.5°	29.1	28.0	21.0	15.2	10.5	8.2	5.8	3.5	0.0	0.0	0.0
170°	22.1	21.0	16.3	11.7	9.3	8.2	5.8	3.5	0.0	0.0	0.0
172.5°	17.5	17.5	14.0	10.5	9.3	8.2	5.8	2.3	0.0	0.0	0.0
175°	15.2	14.0	11.7	10.5	9.3	5.8	4.7	2.3	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)