

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: P231800

Luminaire Tested: **AXCL10A-GRF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1709-271-3)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: AXCL10A-GRF
Description: AXCENT CUTOFF WALLPACK WITH FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11280.2 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 0.29' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

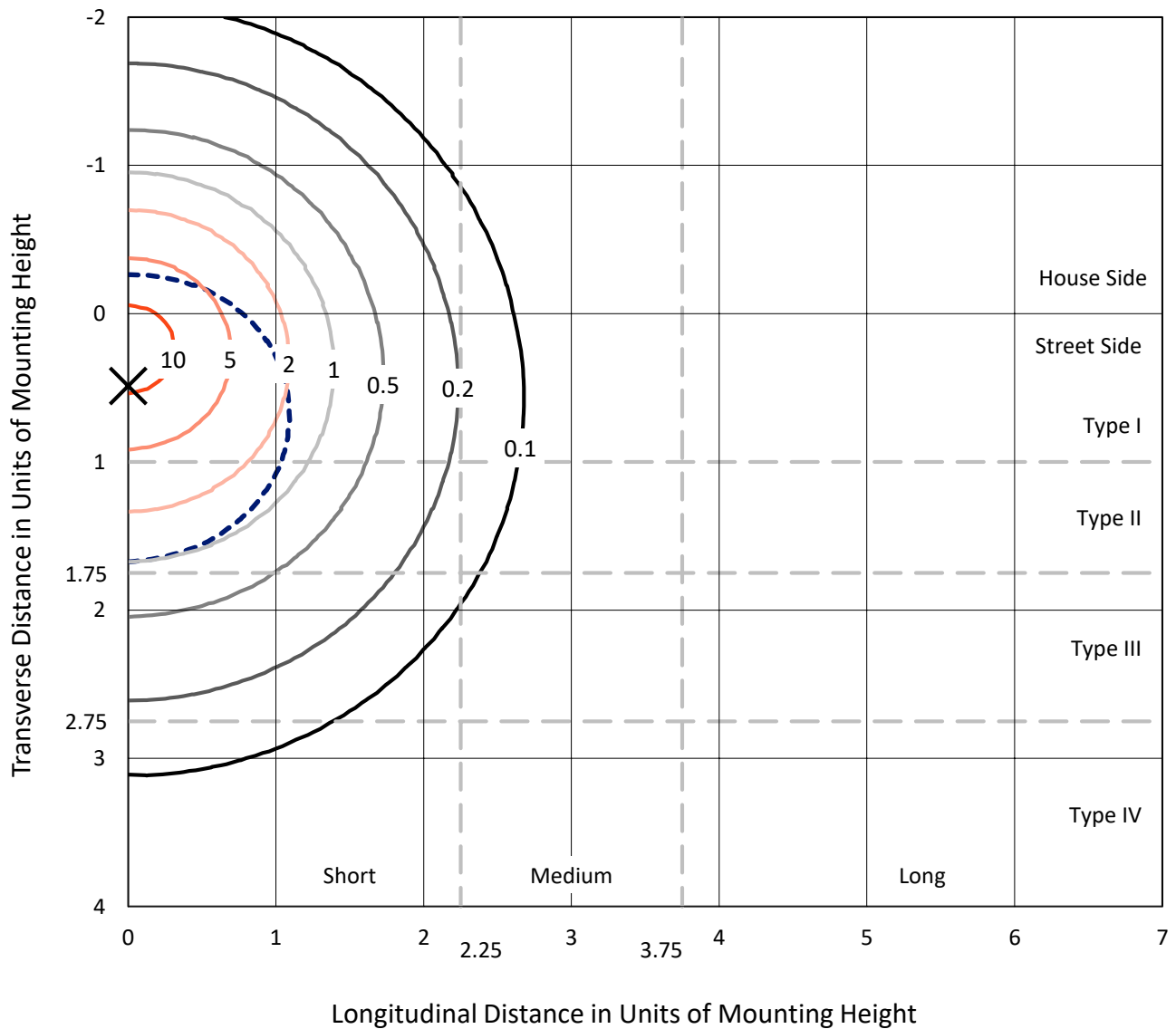
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

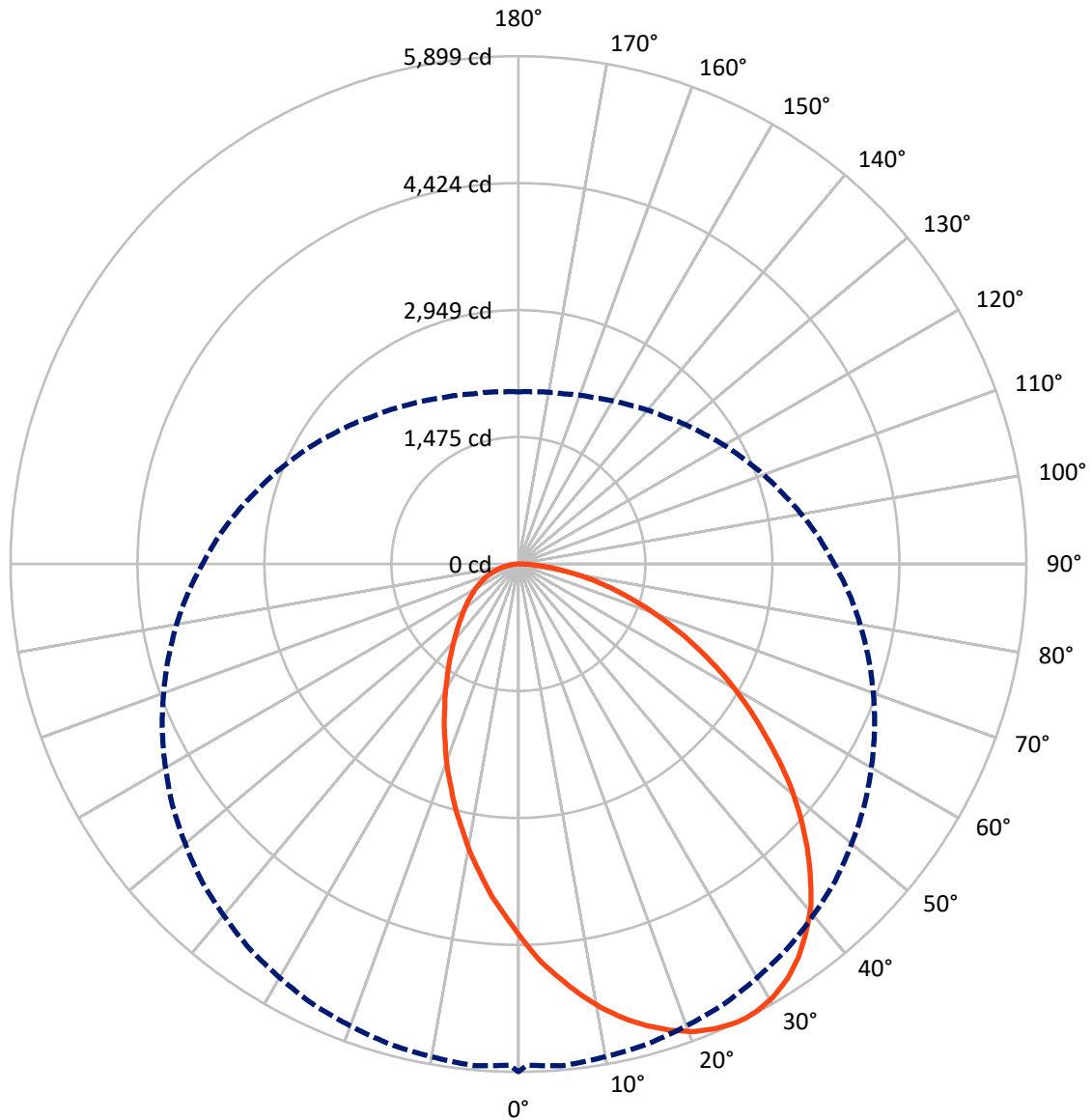
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 26-Deg Vertical

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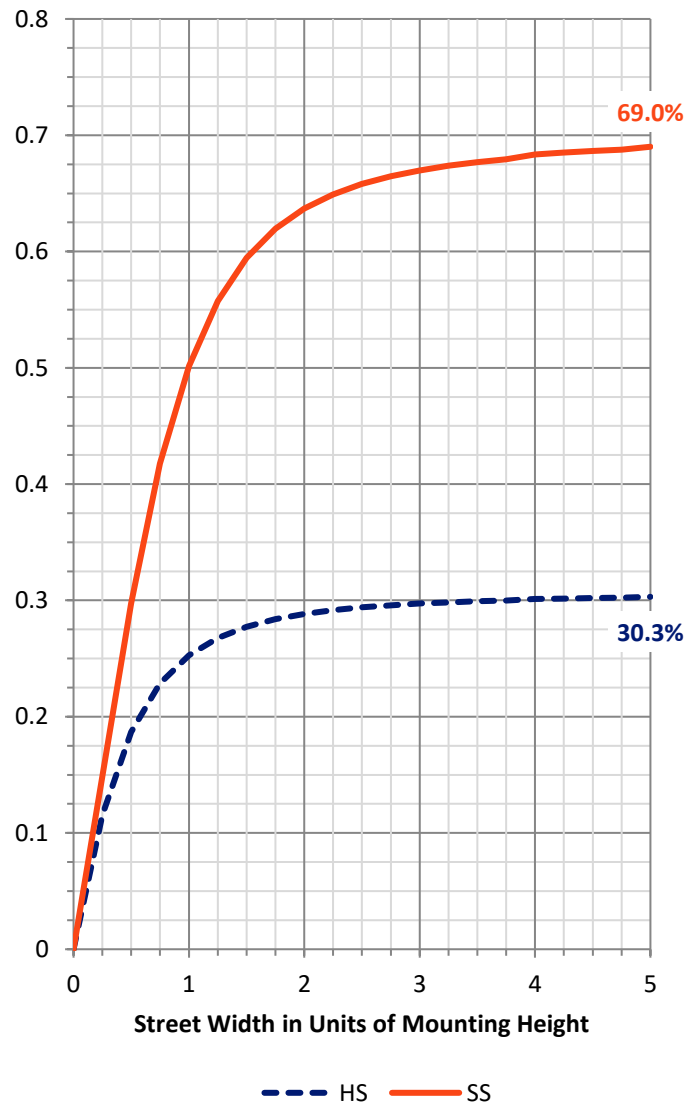
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3454.5	0.0	3454.5
	% Fixture	30.6	0.0	30.6
Street Side	Lumens	7825.7	0.0	7825.7
	% Fixture	69.4	0.0	69.4
Total	Lumens	11280.2	0.0	11280.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.4	3.6
10°-20°	1177.9	10.4
20°-30°	1770.8	15.7
30°-40°	2077.2	18.4
40°-50°	2044.5	18.1
50°-60°	1726.2	15.3
60°-70°	1231.9	10.9
70°-80°	667.8	5.9
80°-90°	172.4	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	11280.2	100.0
0°-180°	11280.2	100.0

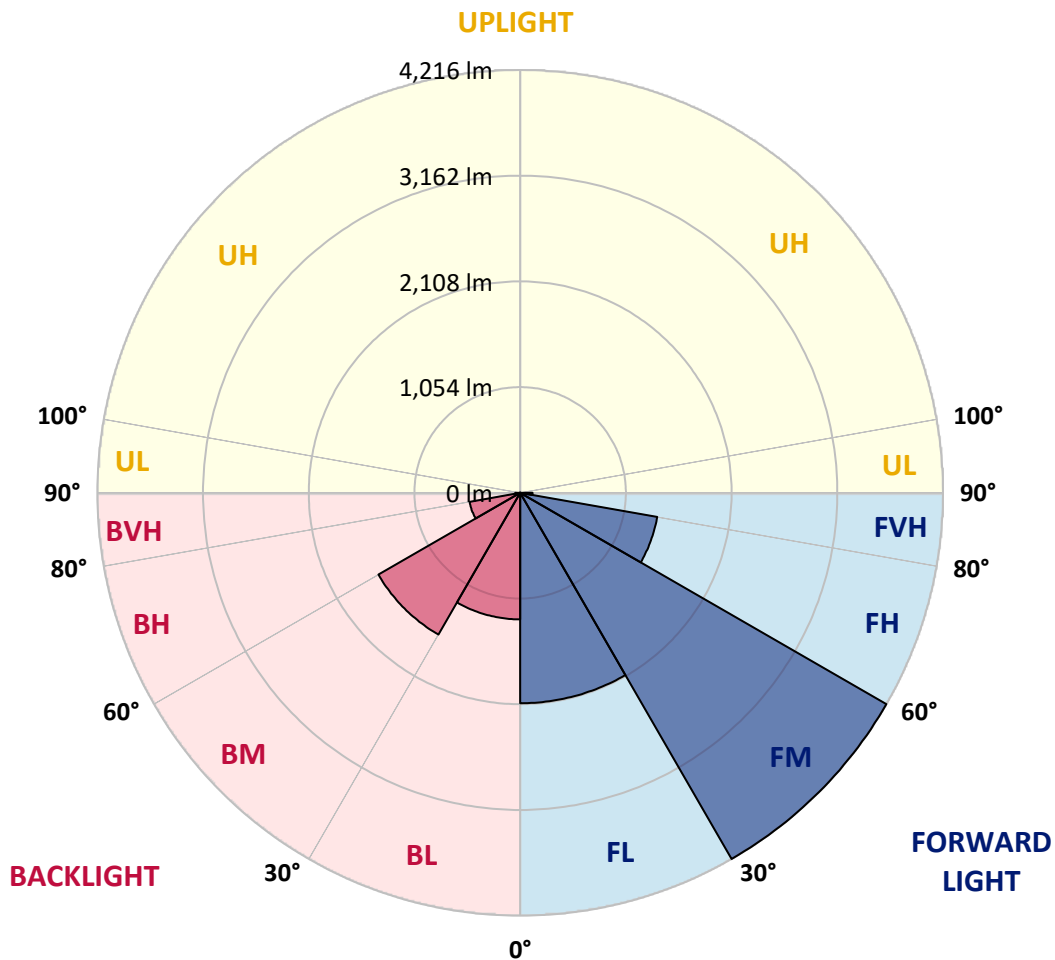


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2098.4	18.6			
FM	(30°-60°)	4216.3	37.4			
FH	(60°-80°)	1387.5	12.3			G1/1800
FVH	(80°-90°)	123.6	1.1			G2/225
BL	(0°-30°)	1261.8	11.2	B3/2500		
BM	(30°-60°)	1631.6	14.5	B2/2500		
BH	(60°-80°)	512.3	4.5	B2/1000		G2/1000
BVH	(80°-90°)	48.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4349.1	4349.1	4349.1	4349.1	4349.1	4349.1	4349.1	4349.1	4349.1	4349.1	4349.1
2.5°	4604.1	4560.0	4582.9	4578.1	4553.7	4538.8	4516.0	4478.2	4445.9	4403.4	4363.3
5°	4818.1	4774.1	4796.1	4781.1	4753.6	4706.4	4656.0	4593.1	4525.4	4442.8	4364.9
7.5°	5033.0	4981.0	5001.5	4978.7	4932.2	4874.0	4794.5	4690.7	4590.7	4471.1	4353.9
10°	5236.8	5172.2	5195.1	5162.0	5100.6	5014.1	4911.8	4781.1	4641.1	4486.1	4330.3
12.5°	5410.7	5342.2	5374.5	5328.8	5255.6	5144.7	5018.8	4856.7	4679.6	4487.6	4292.5
15°	5562.5	5499.6	5525.5	5475.2	5389.4	5262.7	5103.8	4914.1	4699.3	4474.3	4241.3
17.5°	5693.2	5631.0	5659.3	5597.2	5499.6	5351.6	5169.1	4946.4	4704.0	4442.8	4176.8
20°	5798.6	5724.6	5753.7	5687.6	5579.8	5414.6	5213.2	4962.1	4686.7	4394.8	4097.3
22.5°	5862.3	5791.5	5819.1	5749.0	5628.6	5450.8	5228.1	4955.1	4652.1	4329.5	4001.3
25°	5897.0	5821.4	5847.4	5771.8	5644.4	5457.1	5216.3	4921.2	4596.2	4250.0	3900.6
26°	5898.5	5821.4	5849.7	5772.6	5642.8	5450.0	5203.7	4902.3	4564.0	4208.3	3851.8
27.5°	5886.7	5810.4	5837.2	5759.3	5627.1	5428.8	5175.4	4866.9	4513.6	4143.8	3772.4
30°	5834.0	5760.8	5786.0	5708.9	5570.4	5368.2	5103.8	4778.8	4412.9	4024.9	3640.2
32.5°	5739.6	5664.0	5689.2	5615.3	5476.8	5264.3	5000.7	4662.3	4289.3	3889.6	3488.3
35°	5604.2	5534.2	5562.5	5482.3	5339.1	5132.1	4864.6	4524.6	4143.8	3737.7	3329.3
37.5°	5424.8	5357.9	5385.5	5307.6	5177.0	4967.6	4697.7	4355.4	3975.4	3567.8	3163.3
40°	5231.2	5155.7	5176.2	5096.7	4975.5	4762.3	4508.1	4171.3	3786.5	3389.1	2980.0
42.5°	4973.1	4914.1	4940.1	4870.1	4738.7	4537.2	4289.3	3959.6	3594.5	3194.0	2800.5
45°	4700.9	4646.6	4672.6	4604.9	4487.6	4305.1	4052.5	3738.5	3379.7	2997.3	2617.2
47.5°	4414.5	4366.5	4377.5	4323.2	4200.4	4032.0	3796.0	3494.6	3153.9	2792.7	2432.3
50°	4114.7	4064.3	4072.2	4028.9	3917.1	3761.3	3531.6	3258.5	2932.0	2595.2	2239.5
52.5°	3785.7	3751.9	3772.4	3716.5	3611.8	3467.8	3264.0	3001.2	2698.2	2380.3	2060.9
55°	3457.6	3439.5	3452.9	3405.7	3314.4	3176.7	2995.7	2753.3	2479.5	2175.0	1879.9
57.5°	3152.3	3116.9	3136.5	3099.6	3013.0	2887.1	2721.1	2496.0	2242.6	1971.9	1706.0
60°	2839.9	2821.8	2827.3	2778.5	2715.6	2599.9	2445.7	2250.5	2013.7	1780.7	1525.0
62.5°	2524.3	2498.4	2514.1	2475.6	2407.1	2312.7	2185.2	2004.2	1800.4	1580.9	1363.7
65°	2220.6	2200.9	2204.9	2174.2	2136.4	2038.8	1916.1	1762.6	1580.9	1389.6	1196.9
67.5°	1916.9	1928.7	1912.9	1885.4	1845.3	1769.7	1663.5	1526.6	1373.9	1209.5	1034.8
70°	1632.0	1638.3	1632.0	1613.1	1572.2	1521.8	1420.3	1313.3	1172.5	1024.5	886.8
72.5°	1358.2	1375.5	1369.2	1351.9	1314.9	1256.7	1181.1	1091.4	978.9	853.8	739.7
75°	1107.2	1105.6	1119.7	1093.0	1067.8	1013.5	956.9	877.4	790.0	694.8	590.2
77.5°	864.8	867.2	858.5	850.6	828.6	797.9	753.8	682.2	614.6	534.3	454.8
80°	625.6	638.2	636.6	624.8	611.4	583.9	551.6	503.6	443.8	387.2	329.7
82.5°	422.6	443.0	429.6	425.7	416.3	392.7	369.1	333.6	300.6	260.5	214.8
85°	247.1	269.9	258.9	257.3	251.0	231.3	216.4	195.1	166.8	142.4	116.5
87.5°	116.5	144.0	134.6	129.1	122.8	114.1	103.1	91.3	74.8	58.2	41.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	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):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4349.1	4349.1	4349.1	4349.1	4349.1	4349.1	4349.1	4349.1	4349.1	4349.1	4349.1
2.5°	4342.1	4324.8	4285.4	4244.5	4211.4	4172.1	4154.0	4128.0	4117.0	4108.4	4099.7
5°	4321.6	4285.4	4209.1	4128.0	4062.7	3995.8	3958.1	3910.1	3884.9	3863.6	3874.7
7.5°	4292.5	4232.7	4117.0	4010.0	3905.3	3811.7	3746.4	3692.9	3654.3	3622.8	3625.2
10°	4250.0	4172.9	4022.6	3879.4	3740.9	3628.4	3545.7	3474.1	3412.7	3397.0	3393.9
12.5°	4193.3	4099.7	3911.6	3735.4	3578.0	3445.8	3332.5	3243.6	3183.8	3155.4	3144.4
15°	4124.1	4011.6	3793.6	3590.6	3406.5	3247.5	3124.0	3025.6	2967.4	2921.7	2924.9
17.5°	4041.5	3914.8	3662.2	3435.6	3234.1	3057.9	2916.2	2818.6	2732.9	2695.9	2688.8
20°	3947.8	3807.0	3531.6	3280.5	3053.9	2868.2	2714.0	2601.5	2518.1	2484.2	2481.9
22.5°	3840.8	3689.7	3387.6	3114.5	2880.0	2673.1	2518.1	2392.9	2316.6	2271.0	2266.2
25°	3722.0	3556.0	3234.1	2948.5	2699.0	2491.3	2327.6	2201.7	2118.3	2082.1	2076.6
26°	3668.5	3503.2	3174.3	2887.1	2632.1	2414.2	2252.1	2127.8	2045.1	2007.4	2000.3
27.5°	3591.4	3411.2	3079.1	2783.2	2522.8	2317.4	2145.9	2025.5	1930.2	1890.1	1883.8
30°	3444.2	3265.6	2917.0	2614.8	2355.2	2142.7	1972.7	1848.4	1768.1	1724.9	1724.1
32.5°	3289.2	3102.7	2757.3	2446.4	2186.0	1971.2	1810.6	1690.2	1610.0	1567.5	1561.2
35°	3131.0	2939.8	2596.7	2285.9	2030.2	1820.1	1659.6	1543.1	1467.6	1424.3	1425.1
37.5°	2956.3	2771.4	2425.2	2123.8	1877.5	1679.2	1521.8	1408.5	1340.1	1299.9	1297.6
40°	2780.1	2600.7	2263.1	1974.3	1731.9	1539.9	1392.0	1288.1	1222.0	1185.1	1180.3
42.5°	2609.3	2426.8	2099.4	1822.4	1595.0	1413.3	1272.4	1181.1	1115.0	1086.7	1081.2
45°	2433.1	2262.3	1938.9	1680.0	1460.5	1297.6	1167.7	1080.4	1020.6	993.1	989.9
47.5°	2248.9	2086.8	1797.3	1546.2	1344.0	1187.4	1070.2	991.5	938.0	910.4	905.7
50°	2075.8	1927.1	1643.8	1418.0	1229.9	1089.8	985.2	910.4	859.3	835.7	831.7
52.5°	1908.2	1760.3	1503.7	1296.8	1125.3	995.4	901.0	831.7	788.5	767.2	767.2
55°	1738.2	1602.9	1369.2	1180.3	1026.9	906.5	825.4	762.5	723.2	704.3	700.3
57.5°	1571.4	1450.2	1240.1	1067.8	932.5	826.2	750.7	698.0	663.3	643.7	641.3
60°	1409.3	1304.7	1113.5	959.2	841.2	749.1	681.4	633.4	602.0	587.0	587.0
62.5°	1258.2	1159.1	991.5	860.9	751.5	674.4	613.8	571.3	544.5	533.5	529.6
65°	1102.4	1019.0	879.0	757.0	667.3	599.6	549.2	513.1	489.4	478.4	474.5
67.5°	958.4	888.4	764.9	661.8	585.4	526.4	483.2	454.0	432.0	421.8	423.3
70°	813.6	757.0	650.8	570.5	506.8	453.2	420.2	395.0	379.3	367.5	370.6
72.5°	680.7	627.2	544.5	474.5	422.6	385.6	356.5	335.2	321.8	314.8	317.1
75°	544.5	506.0	442.2	387.2	347.0	318.7	291.9	277.0	266.8	262.8	261.2
77.5°	423.3	390.3	343.9	303.0	273.1	251.0	232.1	222.7	212.5	210.1	210.1
80°	303.0	282.5	246.3	221.9	199.1	184.9	175.5	166.8	163.7	161.3	160.5
82.5°	199.9	182.6	163.7	147.9	136.1	127.5	120.4	118.8	114.9	114.1	114.9
85°	104.7	98.4	88.9	81.8	81.0	77.1	76.3	77.1	76.3	75.5	75.5
87.5°	37.8	34.6	34.6	35.4	37.8	40.1	40.9	44.1	45.6	47.2	48.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P231800
 CATALOG NUMBER: AXCL10A-GRF

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)