

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: P231799

Luminaire Tested: **AXCL10A-C-GRF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P231799  
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-C-GRF  
Description: AXCENT CUTOFF WALLPACK WITH FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11089 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.29' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

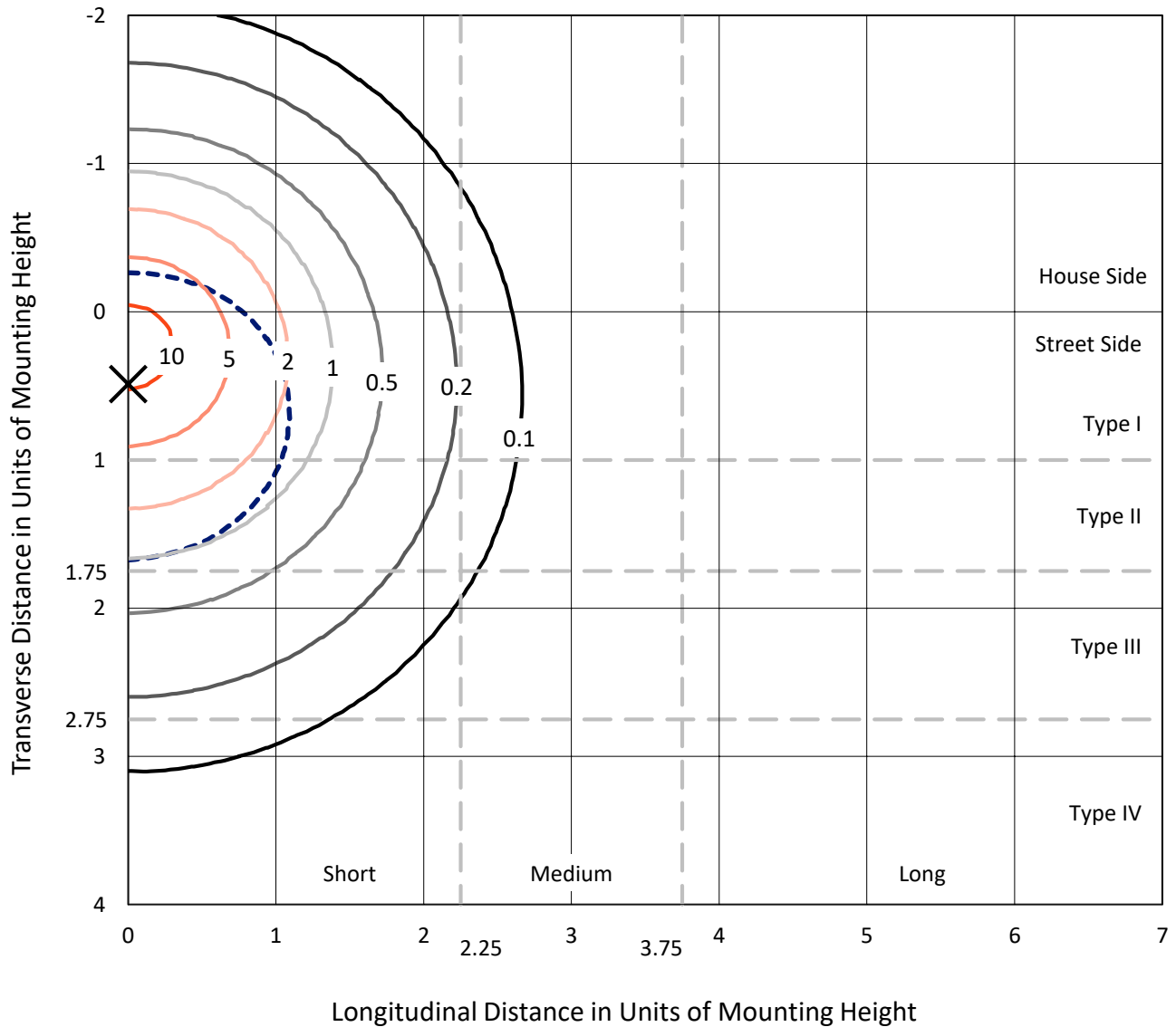
Input Watts (W): 102  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P231799  
 CATALOG NUMBER: AXCL10A-C-GRF

### Iso-Footcandle Lines of Horizontal Illumination

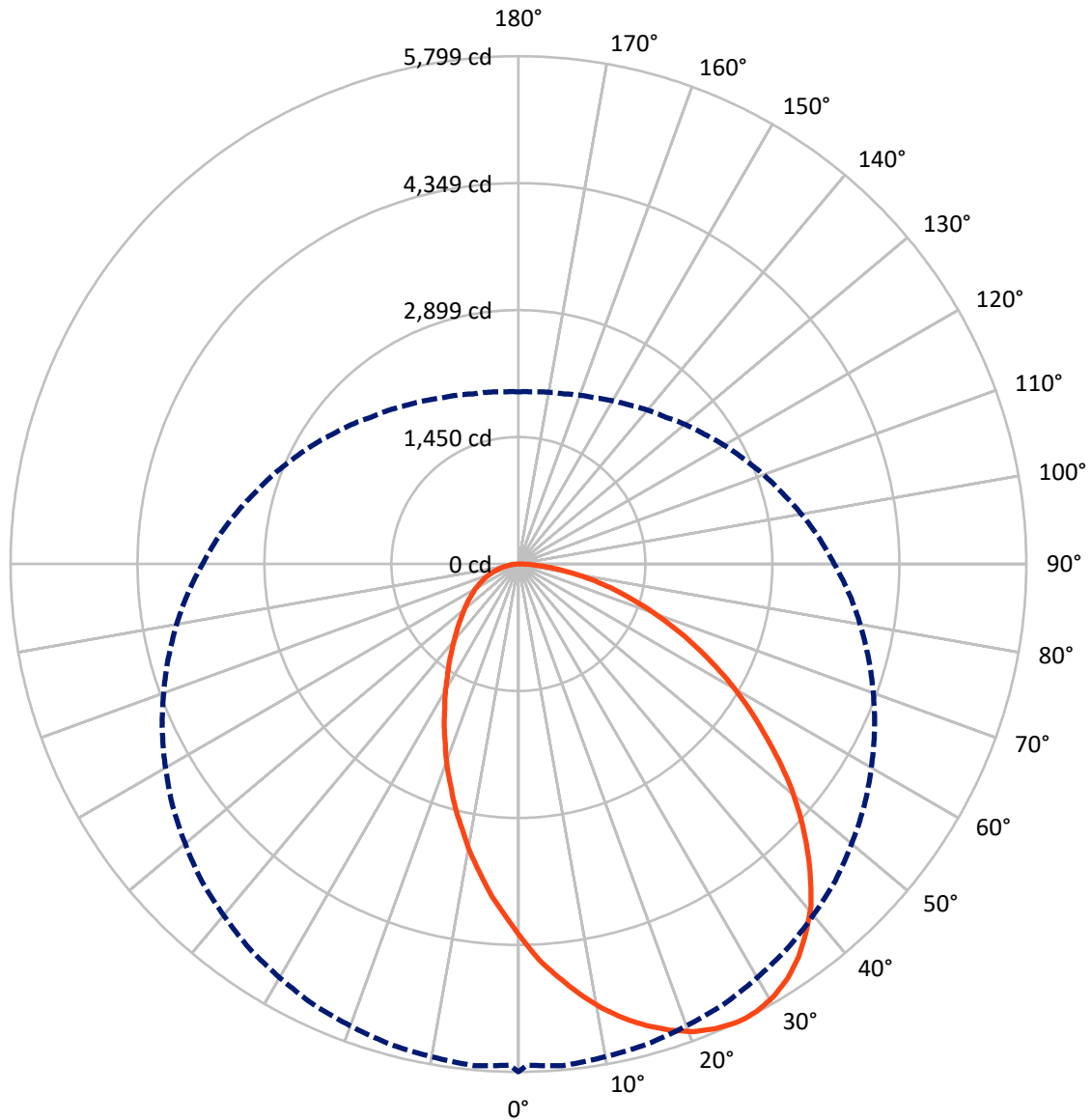
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.4 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P231799  
CATALOG NUMBER: AXCL10A-C-GRF

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P231799

CATALOG NUMBER: AXCL10A-C-GRF

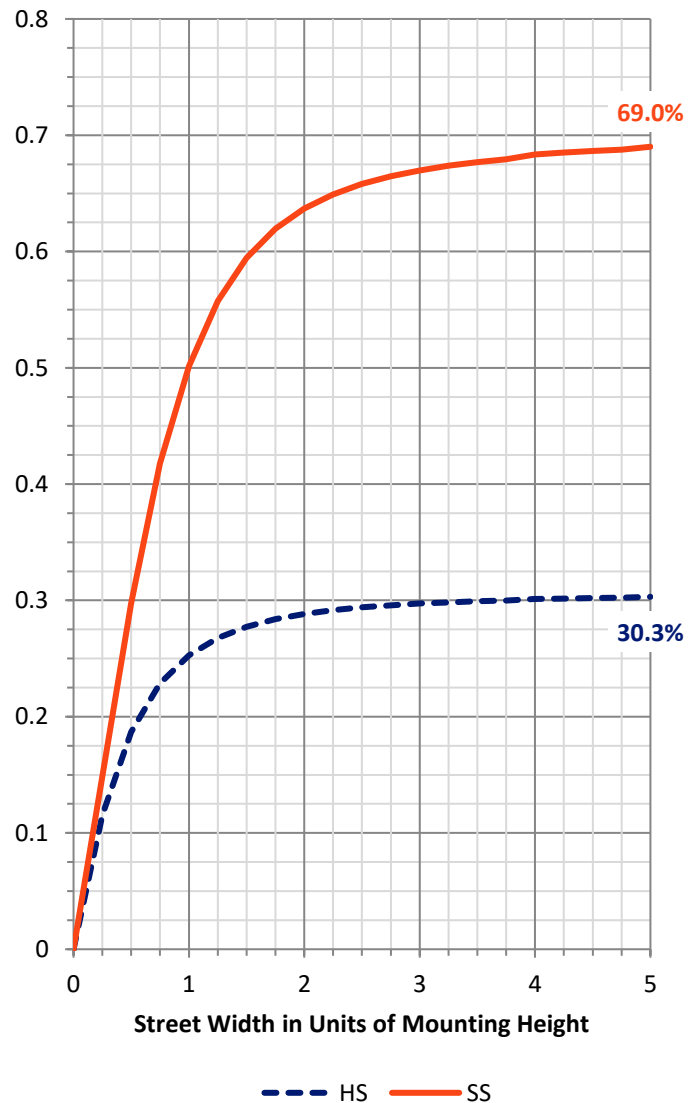
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3395.9	0.0	3395.9
	% Fixture	30.6	0.0	30.6
<b>Street Side</b>	Lumens	7693.1	0.0	7693.1
	% Fixture	69.4	0.0	69.4
<b>Total</b>	Lumens	11089.0	0.0	11089.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	404.4	3.6
10°-20°	1158.0	10.4
20°-30°	1740.8	15.7
30°-40°	2042.0	18.4
40°-50°	2009.8	18.1
50°-60°	1696.9	15.3
60°-70°	1211.1	10.9
70°-80°	656.5	5.9
80°-90°	169.5	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°	11089.0	100.0
0°-180°	11089.0	100.0



REPORT NUMBER: P231799

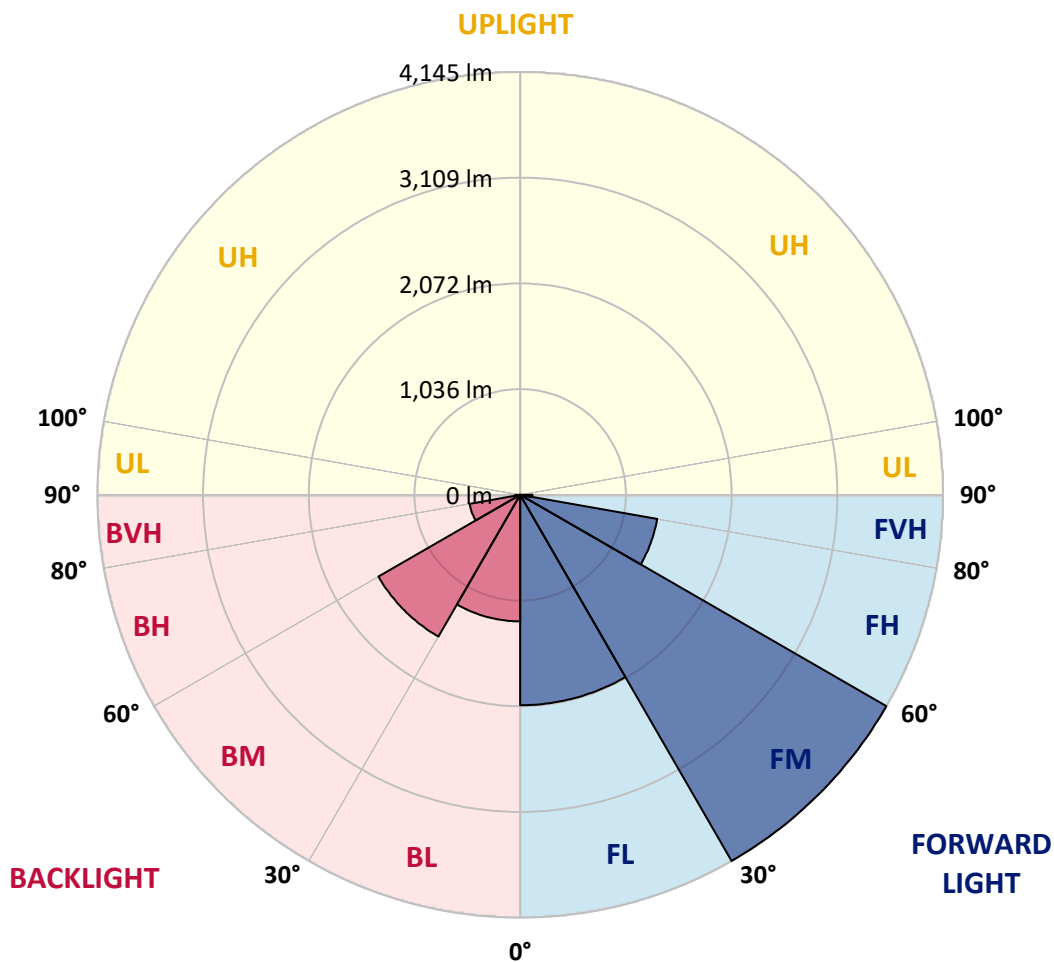
CATALOG NUMBER: AXCL10A-C-GRF

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2062.8	18.6			
FM	(30°-60°)	4144.8	37.4			
FH	(60°-80°)	1364.0	12.3			G1/1800
FVH	(80°-90°)	121.5	1.1			G2/225
BL	(0°-30°)	1240.4	11.2	B3/2500		
BM	(30°-60°)	1604.0	14.5	B2/2500		
BH	(60°-80°)	503.6	4.5	B2/1000		G2/1000
BVH	(80°-90°)	48.0	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





REPORT NUMBER: P231799  
 CATALOG NUMBER: AXCL10A-C-GRF

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4
2.5°	4526.1	4482.7	4505.2	4500.5	4476.6	4461.9	4439.4	4402.3	4370.6	4328.8	4289.4
5°	4736.5	4693.2	4714.8	4700.1	4673.0	4626.6	4577.1	4515.2	4448.7	4367.5	4290.9
7.5°	4947.7	4896.6	4916.7	4894.3	4848.6	4791.4	4713.3	4611.2	4512.9	4395.3	4280.1
10°	5148.0	5084.6	5107.0	5074.5	5014.2	4929.1	4828.5	4700.1	4562.4	4410.0	4256.9
12.5°	5319.0	5251.7	5283.4	5238.5	5166.6	5057.5	4933.7	4774.4	4600.3	4411.6	4219.7
15°	5468.3	5406.4	5431.9	5382.4	5298.1	5173.5	5017.3	4830.8	4619.7	4398.4	4169.5
17.5°	5596.7	5535.6	5563.4	5502.3	5406.4	5260.9	5081.5	4862.6	4624.3	4367.5	4106.0
20°	5700.3	5627.6	5656.2	5591.2	5485.3	5322.8	5124.8	4878.0	4607.3	4320.3	4027.9
22.5°	5763.0	5693.4	5720.4	5651.6	5533.2	5358.4	5139.5	4871.1	4573.3	4256.1	3933.5
25°	5797.0	5722.8	5748.3	5674.0	5548.7	5364.6	5127.9	4837.8	4518.3	4178.0	3834.5
26°	5798.6	5722.8	5750.6	5674.8	5547.2	5357.6	5115.5	4819.2	4486.6	4137.0	3786.5
27.5°	5787.0	5711.9	5738.2	5661.6	5531.7	5336.7	5087.7	4784.4	4437.1	4073.5	3708.4
30°	5735.1	5663.2	5687.9	5612.1	5476.0	5277.2	5017.3	4697.8	4338.1	3956.7	3578.5
32.5°	5642.3	5568.0	5592.8	5520.1	5383.9	5175.1	4915.9	4583.3	4216.6	3823.7	3429.2
35°	5509.3	5440.4	5468.3	5389.4	5248.6	5045.1	4782.1	4447.9	4073.5	3674.4	3272.9
37.5°	5332.9	5267.1	5294.2	5217.6	5089.2	4883.4	4618.1	4281.6	3908.0	3507.3	3109.7
40°	5142.6	5068.3	5088.4	5010.3	4891.2	4681.5	4431.7	4100.6	3722.3	3331.7	2929.4
42.5°	4888.9	4830.8	4856.4	4787.5	4658.3	4460.3	4216.6	3892.5	3533.6	3139.9	2753.1
45°	4621.2	4567.8	4593.4	4526.8	4411.6	4232.1	3983.8	3675.2	3322.4	2946.5	2572.8
47.5°	4339.6	4292.5	4303.3	4249.9	4129.2	3963.7	3731.6	3435.4	3100.4	2745.3	2391.1
50°	4044.9	3995.4	4003.1	3960.6	3850.8	3697.6	3471.7	3203.3	2882.3	2551.2	2201.5
52.5°	3721.6	3688.3	3708.4	3653.5	3550.6	3409.1	3208.7	2950.3	2652.5	2340.0	2025.9
55°	3399.0	3381.2	3394.4	3347.9	3258.2	3122.8	2944.9	2706.7	2437.5	2138.1	1848.0
57.5°	3098.9	3064.0	3083.4	3047.0	2961.9	2838.2	2674.9	2453.7	2204.6	1938.5	1677.1
60°	2791.8	2774.0	2779.4	2731.4	2669.5	2555.8	2404.2	2212.4	1979.5	1750.6	1499.1
62.5°	2481.6	2456.0	2471.5	2433.6	2366.3	2273.5	2148.2	1970.2	1769.9	1554.1	1340.6
65°	2183.0	2163.6	2167.5	2137.3	2100.2	2004.3	1883.6	1732.8	1554.1	1366.1	1176.6
67.5°	1884.4	1896.0	1880.5	1853.4	1814.0	1739.7	1635.3	1500.7	1350.6	1189.0	1017.2
70°	1604.4	1610.5	1604.4	1585.8	1545.6	1496.1	1396.3	1291.1	1152.6	1007.2	871.8
72.5°	1335.2	1352.2	1346.0	1329.0	1292.6	1235.4	1161.1	1072.9	962.3	839.3	727.1
75°	1088.4	1086.8	1100.8	1074.5	1049.7	996.3	940.6	862.5	776.6	683.0	580.2
77.5°	850.1	852.5	843.9	836.2	814.6	784.4	741.1	670.7	604.1	525.2	447.1
80°	615.0	627.4	625.8	614.2	601.1	574.0	542.3	495.1	436.3	380.6	324.1
82.5°	415.4	435.5	422.4	418.5	409.2	386.0	362.8	328.0	295.5	256.0	211.2
85°	242.9	265.3	254.5	253.0	246.8	227.4	212.7	191.8	164.0	140.0	114.5
87.5°	114.5	141.6	132.3	126.9	120.7	112.2	101.3	89.7	73.5	57.2	41.0
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: P231799

CATALOG NUMBER: AXCL10A-C-GRF

**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





REPORT NUMBER: P231799  
 CATALOG NUMBER: AXCL10A-C-GRF

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4
2.5°	4268.5	4251.5	4212.8	4172.6	4140.1	4101.4	4083.6	4058.1	4047.2	4038.7	4030.2
5°	4248.4	4212.8	4137.7	4058.1	3993.9	3928.1	3891.0	3843.8	3819.0	3798.2	3809.0
7.5°	4219.7	4160.9	4047.2	3942.0	3839.1	3747.1	3682.9	3630.3	3592.4	3561.4	3563.8
10°	4178.0	4102.2	3954.4	3813.6	3677.5	3566.9	3485.6	3415.2	3354.9	3339.4	3336.3
12.5°	4122.3	4030.2	3845.3	3672.1	3517.4	3387.4	3276.0	3188.6	3129.8	3102.0	3091.1
15°	4054.2	3943.6	3729.3	3529.7	3348.7	3192.5	3071.0	2974.3	2917.1	2872.2	2875.3
17.5°	3973.0	3848.4	3600.1	3377.3	3179.3	3006.0	2866.8	2770.9	2686.6	2650.2	2643.2
20°	3880.9	3742.5	3471.7	3224.9	3002.2	2819.6	2668.0	2557.4	2475.4	2442.1	2439.8
22.5°	3775.7	3627.2	3330.1	3061.7	2831.2	2627.8	2475.4	2352.4	2277.3	2232.5	2227.8
25°	3658.9	3495.7	3179.3	2898.5	2653.3	2449.1	2288.2	2164.4	2082.4	2046.8	2041.4
26°	3606.3	3443.9	3120.5	2838.2	2587.5	2373.3	2213.9	2091.7	2010.5	1973.3	1966.4
27.5°	3530.5	3353.4	3026.9	2736.1	2480.0	2278.1	2109.5	1991.1	1897.5	1858.1	1851.9
30°	3385.8	3210.2	2867.6	2570.5	2315.2	2106.4	1939.3	1817.1	1738.2	1695.6	1694.9
32.5°	3233.5	3050.1	2710.5	2405.0	2148.9	1937.8	1779.9	1661.6	1582.7	1540.9	1534.7
35°	3078.0	2890.0	2552.7	2247.2	1995.8	1789.2	1631.4	1516.9	1442.7	1400.1	1400.9
37.5°	2906.2	2724.5	2384.1	2087.8	1845.7	1650.8	1496.1	1384.7	1317.4	1277.9	1275.6
40°	2733.0	2556.6	2224.7	1940.8	1702.6	1513.8	1368.4	1266.3	1201.3	1165.0	1160.3
42.5°	2565.1	2385.6	2063.8	1791.6	1568.0	1389.3	1250.8	1161.1	1096.1	1068.3	1062.9
45°	2391.8	2224.0	1906.0	1651.5	1435.7	1275.6	1148.0	1062.1	1003.3	976.2	973.1
47.5°	2210.8	2051.5	1766.8	1520.0	1321.2	1167.3	1052.0	974.7	922.1	895.0	890.4
50°	2040.6	1894.4	1616.0	1393.9	1209.1	1071.4	968.5	895.0	844.7	821.5	817.6
52.5°	1875.9	1730.4	1478.3	1274.8	1106.2	978.5	885.7	817.6	775.1	754.2	754.2
55°	1708.8	1575.7	1346.0	1160.3	1009.5	891.1	811.5	749.6	710.9	692.3	688.5
57.5°	1544.8	1425.7	1219.1	1049.7	916.7	812.2	738.0	686.1	652.1	632.8	630.4
60°	1385.4	1282.6	1094.6	943.0	826.9	736.4	669.9	622.7	591.8	577.1	577.1
62.5°	1236.9	1139.4	974.7	846.3	738.7	662.9	603.4	561.6	535.3	524.5	520.6
65°	1083.7	1001.8	864.1	744.2	656.0	589.4	539.9	504.4	481.2	470.3	466.5
67.5°	942.2	873.3	751.9	650.6	575.5	517.5	475.0	446.3	424.7	414.6	416.2
70°	799.9	744.2	639.7	560.8	498.2	445.6	413.1	388.3	372.9	361.2	364.3
72.5°	669.1	616.5	535.3	466.5	415.4	379.0	350.4	329.5	316.4	309.4	311.7
75°	535.3	497.4	434.7	380.6	341.1	313.3	287.0	272.3	262.2	258.4	256.8
77.5°	416.2	383.7	338.0	297.8	268.4	246.8	228.2	218.9	208.9	206.5	206.5
80°	297.8	277.7	242.1	218.1	195.7	181.8	172.5	164.0	160.9	158.6	157.8
82.5°	196.5	179.5	160.9	145.4	133.8	125.3	118.4	116.8	112.9	112.2	112.9
85°	102.9	96.7	87.4	80.4	79.7	75.8	75.0	75.8	75.0	74.3	74.3
87.5°	37.1	34.0	34.0	34.8	37.1	39.5	40.2	43.3	44.9	46.4	47.2
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: P231799

CATALOG NUMBER: AXCL10A-C-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)