

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: P231803

Luminaire Tested: **AXCL12A-GRF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P231803  
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: AXCL12A-GRF  
Description: AXCENT CUTOFF WALLPACK WITH FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14335.1 lumens  
Efficiency: N/A  
Efficacy: 116.2 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

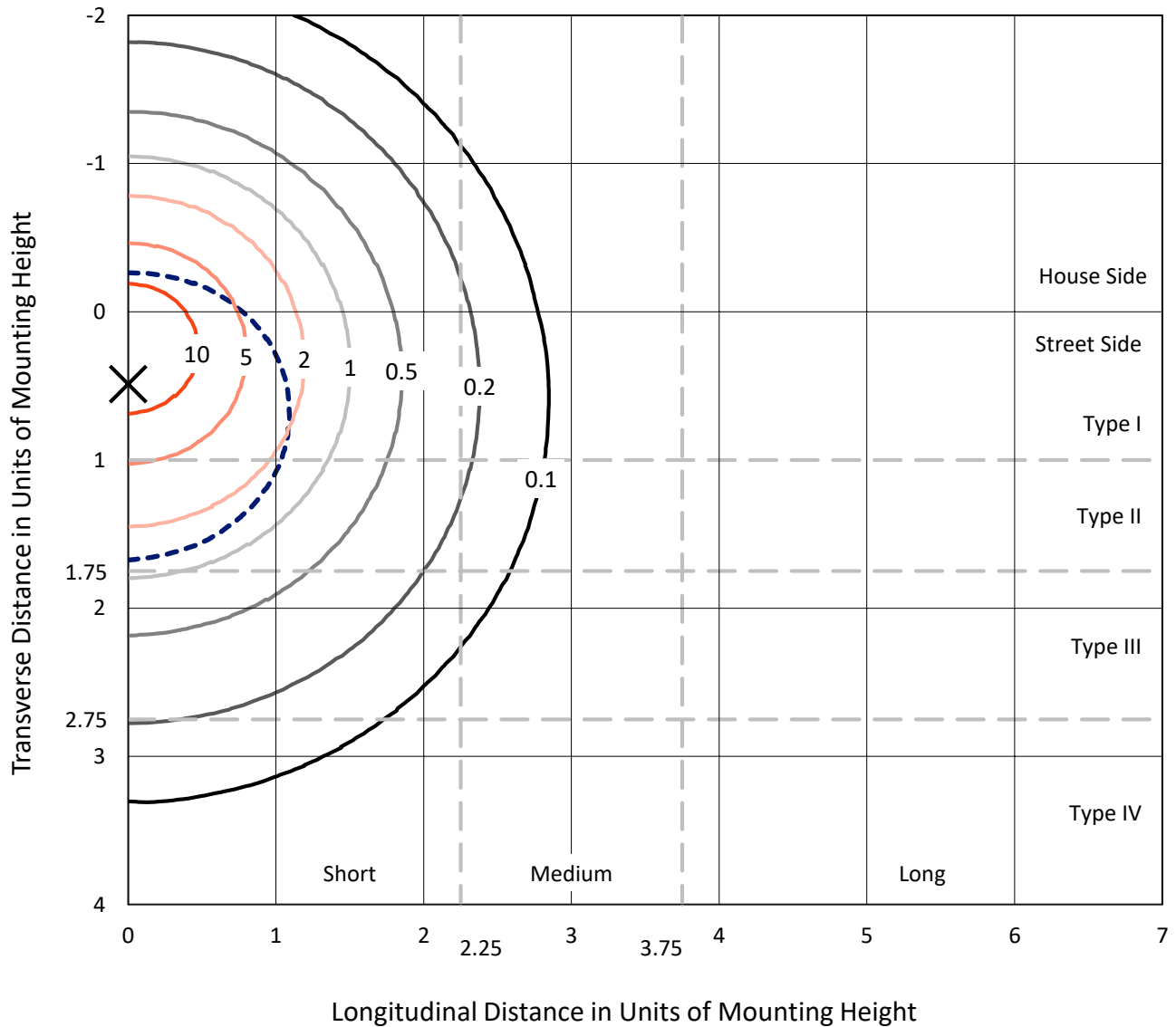
Input Watts (W): 123.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P231803  
 CATALOG NUMBER: AXCL12A-GRF

### Iso-Footcandle Lines of Horizontal Illumination

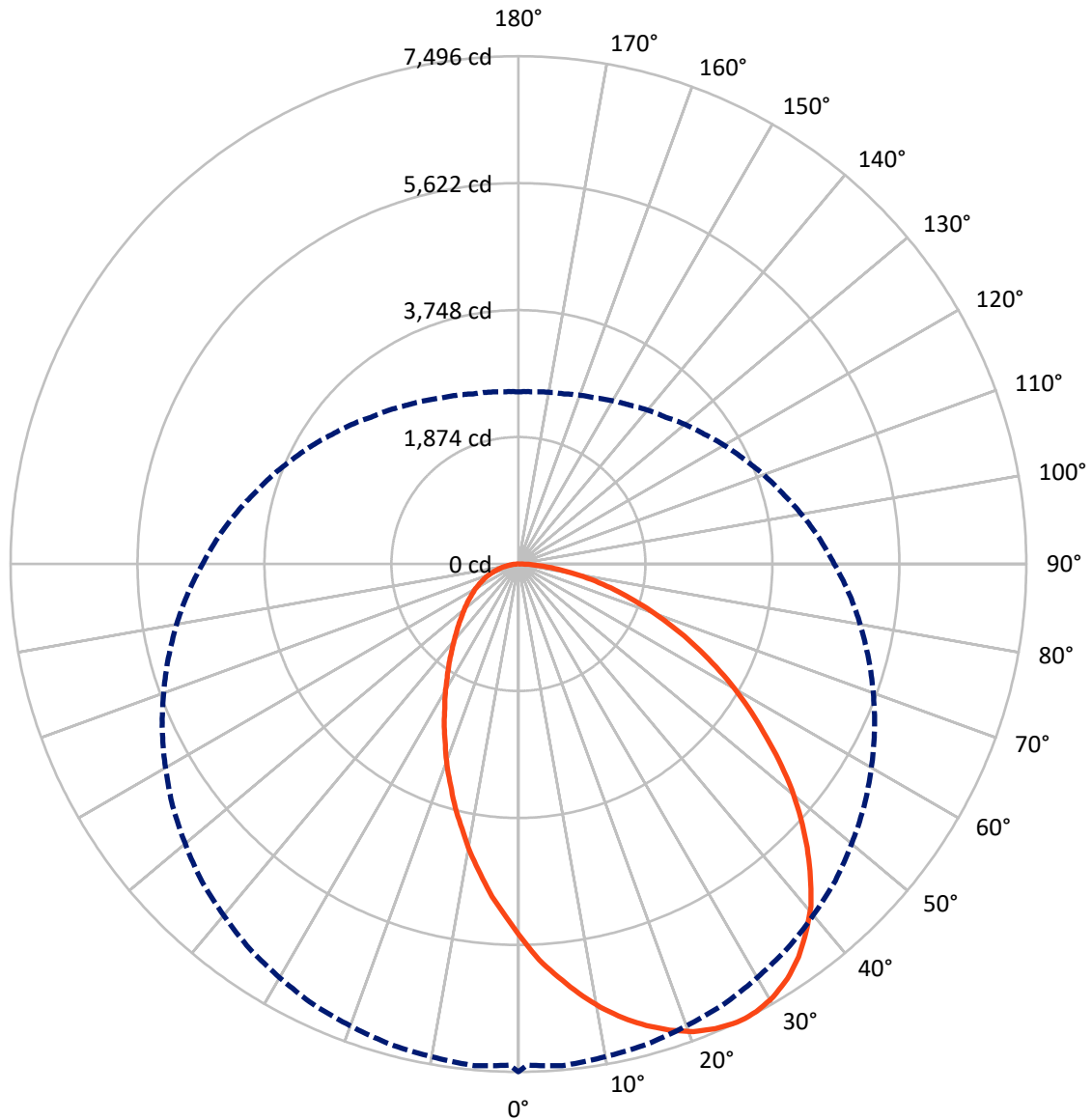
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 16 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P231803  
CATALOG NUMBER: AXCL12A-GRF

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P231803  
 CATALOG NUMBER: AXCL12A-GRF

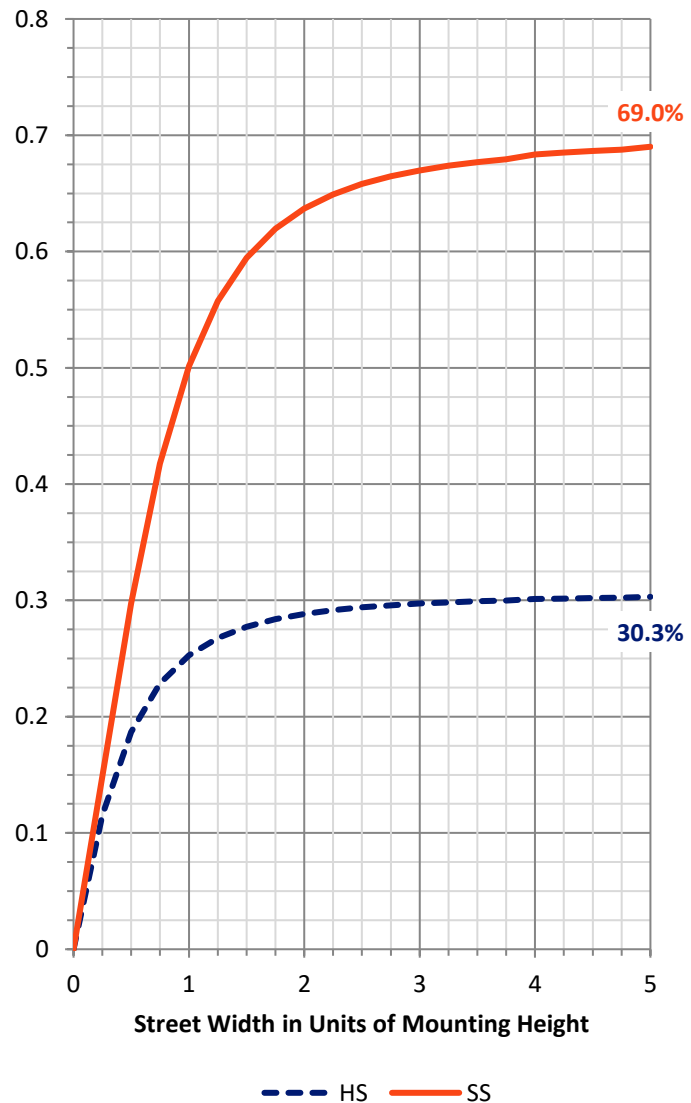
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4390.0	0.0	4390.0
	% Fixture	30.6	0.0	30.6
<b>Street Side</b>	Lumens	9945.0	0.0	9945.0
	% Fixture	69.4	0.0	69.4
<b>Total</b>	Lumens	14335.1	0.0	14335.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	522.8	3.6
10°-20°	1496.9	10.4
20°-30°	2250.4	15.7
30°-40°	2639.8	18.4
40°-50°	2598.1	18.1
50°-60°	2193.7	15.3
60°-70°	1565.6	10.9
70°-80°	848.6	5.9
80°-90°	219.1	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°	14335.1	100.0
0°-180°	14335.1	100.0



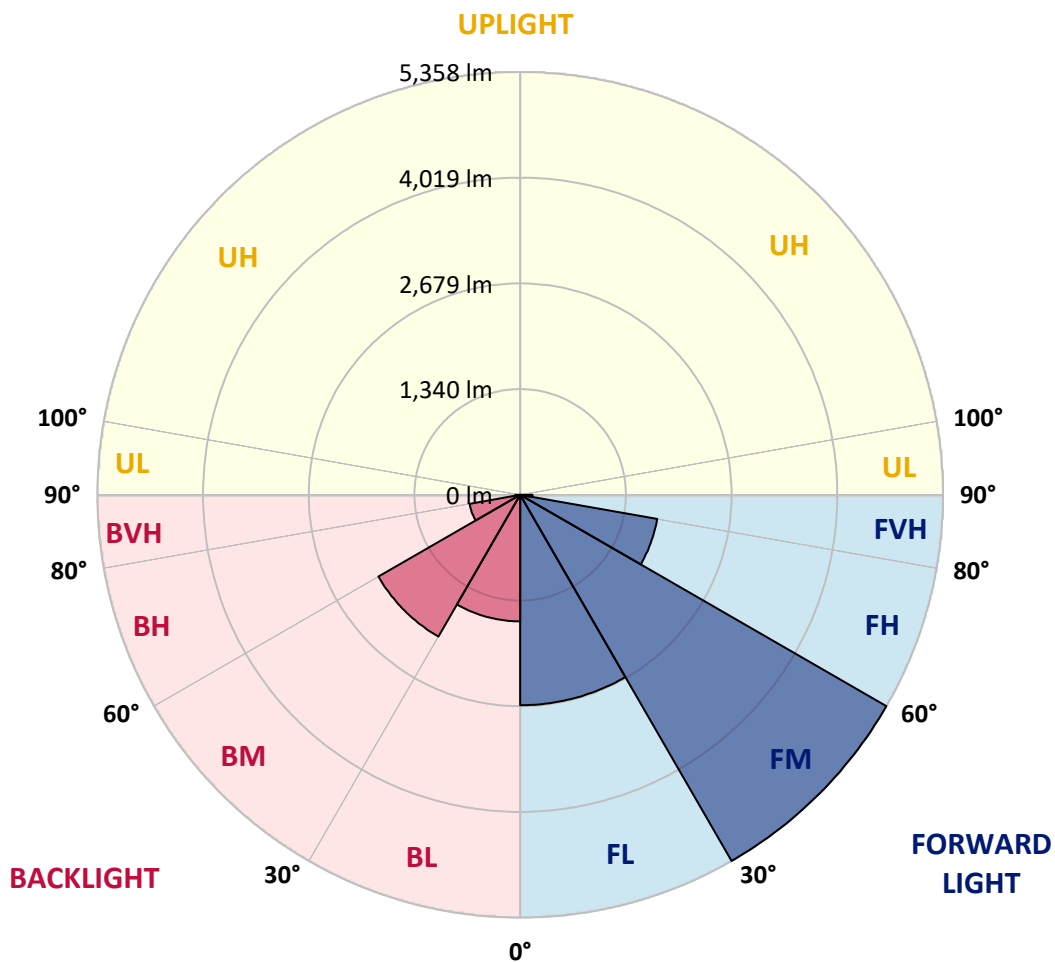
REPORT NUMBER: P231803  
 CATALOG NUMBER: AXCL12A-GRF

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2666.6	18.6			
FM (30°-60°)	5358.1	37.4			
FH (60°-80°)	1763.2	12.3			G1/1800
FVH (80°-90°)	157.1	1.1			G2/225
BL (0°-30°)	1603.5	11.2	B3/2500		
BM (30°-60°)	2073.5	14.5	B2/2500		
BH (60°-80°)	651.0	4.5	B2/1000		G2/1000
BVH (80°-90°)	62.0	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: P231803  
 CATALOG NUMBER: AXCL12A-GRF

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5526.9	5526.9	5526.9	5526.9	5526.9	5526.9	5526.9	5526.9	5526.9	5526.9	5526.9
2.5°	5850.9	5794.9	5823.9	5817.9	5786.9	5767.9	5738.9	5690.9	5649.9	5595.9	5544.9
5°	6122.9	6066.9	6094.9	6075.9	6040.9	5980.9	5916.9	5836.9	5750.9	5645.9	5546.9
7.5°	6395.9	6329.9	6355.9	6326.9	6267.9	6193.9	6092.9	5960.9	5833.9	5681.9	5532.9
10°	6654.9	6572.9	6601.9	6559.9	6481.9	6371.9	6241.9	6075.9	5897.9	5700.9	5502.9
12.5°	6875.9	6788.9	6829.9	6771.9	6678.9	6537.9	6377.9	6171.9	5946.9	5702.9	5454.9
15°	7068.9	6988.9	7021.9	6957.9	6848.9	6687.9	6485.9	6244.9	5971.9	5685.9	5389.9
17.5°	7234.9	7155.9	7191.9	7112.9	6988.9	6800.9	6568.9	6285.9	5977.9	5645.9	5307.9
20°	7368.9	7274.9	7311.9	7227.9	7090.9	6880.9	6624.9	6305.9	5955.9	5584.9	5206.9
22.5°	7449.9	7359.9	7394.9	7305.9	7152.9	6926.9	6643.9	6296.9	5911.9	5501.9	5084.9
25°	7493.9	7397.9	7430.9	7334.9	7172.9	6934.9	6628.9	6253.9	5840.9	5400.9	4956.9
26°	7495.9	7397.9	7433.9	7335.9	7170.9	6925.9	6612.9	6229.9	5799.9	5347.9	4894.9
27.5°	7480.9	7383.9	7417.9	7318.9	7150.9	6898.9	6576.9	6184.9	5735.9	5265.9	4794.0
30°	7413.9	7320.9	7352.9	7254.9	7078.9	6821.9	6485.9	6072.9	5607.9	5114.9	4626.0
32.5°	7293.9	7197.9	7229.9	7135.9	6959.9	6689.9	6354.9	5924.9	5450.9	4942.9	4433.0
35°	7121.9	7032.9	7068.9	6966.9	6784.9	6521.9	6181.9	5749.9	5265.9	4750.0	4231.0
37.5°	6893.9	6808.9	6843.9	6744.9	6578.9	6312.9	5969.9	5534.9	5051.9	4534.0	4020.0
40°	6647.9	6551.9	6577.9	6476.9	6322.9	6051.9	5728.9	5300.9	4812.0	4307.0	3787.0
42.5°	6319.9	6244.9	6277.9	6188.9	6021.9	5765.9	5450.9	5031.9	4568.0	4059.0	3559.0
45°	5973.9	5904.9	5937.9	5851.9	5702.9	5470.9	5149.9	4751.0	4295.0	3809.0	3326.0
47.5°	5609.9	5548.9	5562.9	5493.9	5337.9	5123.9	4824.0	4441.0	4008.0	3549.0	3091.0
50°	5228.9	5164.9	5174.9	5119.9	4977.9	4780.0	4488.0	4141.0	3726.0	3298.0	2846.0
52.5°	4811.0	4768.0	4794.0	4723.0	4590.0	4407.0	4148.0	3814.0	3429.0	3025.0	2619.0
55°	4394.0	4371.0	4388.0	4328.0	4212.0	4037.0	3807.0	3499.0	3151.0	2764.0	2389.0
57.5°	4006.0	3961.0	3986.0	3939.0	3829.0	3669.0	3458.0	3172.0	2850.0	2506.0	2168.0
60°	3609.0	3586.0	3593.0	3531.0	3451.0	3304.0	3108.0	2860.0	2559.0	2263.0	1938.0
62.5°	3208.0	3175.0	3195.0	3146.0	3059.0	2939.0	2777.0	2547.0	2288.0	2009.0	1733.0
65°	2822.0	2797.0	2802.0	2763.0	2715.0	2591.0	2435.0	2240.0	2009.0	1766.0	1521.0
67.5°	2436.0	2451.0	2431.0	2396.0	2345.0	2249.0	2114.0	1940.0	1746.0	1537.0	1315.0
70°	2074.0	2082.0	2074.0	2050.0	1998.0	1934.0	1805.0	1669.0	1490.0	1302.0	1127.0
72.5°	1726.0	1748.0	1740.0	1718.0	1671.0	1597.0	1501.0	1387.0	1244.0	1085.0	940.0
75°	1407.0	1405.0	1423.0	1389.0	1357.0	1288.0	1216.0	1115.0	1004.0	883.0	750.0
77.5°	1099.0	1102.0	1091.0	1081.0	1053.0	1014.0	958.0	867.0	781.0	679.0	578.0
80°	795.0	811.0	809.0	794.0	777.0	742.0	701.0	640.0	564.0	492.0	419.0
82.5°	537.0	563.0	546.0	541.0	529.0	499.0	469.0	424.0	382.0	331.0	273.0
85°	314.0	343.0	329.0	327.0	319.0	294.0	275.0	248.0	212.0	181.0	148.0
87.5°	148.0	183.0	171.0	164.0	156.0	145.0	131.0	116.0	95.0	74.0	53.0
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: P231803  
 CATALOG NUMBER: AXCL12A-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: P231803  
 CATALOG NUMBER: AXCL12A-GRF

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5526.9	5526.9	5526.9	5526.9	5526.9	5526.9	5526.9	5526.9	5526.9	5526.9	5526.9
2.5°	5517.9	5495.9	5445.9	5393.9	5351.9	5301.9	5278.9	5245.9	5231.9	5220.9	5209.9
5°	5491.9	5445.9	5348.9	5245.9	5162.9	5077.9	5029.9	4968.9	4936.9	4909.9	4923.9
7.5°	5454.9	5378.9	5231.9	5095.9	4962.9	4844.0	4761.0	4693.0	4644.0	4604.0	4607.0
10°	5400.9	5302.9	5111.9	4929.9	4754.0	4611.0	4506.0	4415.0	4337.0	4317.0	4313.0
12.5°	5328.9	5209.9	4970.9	4747.0	4547.0	4379.0	4235.0	4122.0	4046.0	4010.0	3996.0
15°	5240.9	5097.9	4821.0	4563.0	4329.0	4127.0	3970.0	3845.0	3771.0	3713.0	3717.0
17.5°	5135.9	4974.9	4654.0	4366.0	4110.0	3886.0	3706.0	3582.0	3473.0	3426.0	3417.0
20°	5016.9	4838.0	4488.0	4169.0	3881.0	3645.0	3449.0	3306.0	3200.0	3157.0	3154.0
22.5°	4880.9	4689.0	4305.0	3958.0	3660.0	3397.0	3200.0	3041.0	2944.0	2886.0	2880.0
25°	4730.0	4519.0	4110.0	3747.0	3430.0	3166.0	2958.0	2798.0	2692.0	2646.0	2639.0
26°	4662.0	4452.0	4034.0	3669.0	3345.0	3068.0	2862.0	2704.0	2599.0	2551.0	2542.0
27.5°	4564.0	4335.0	3913.0	3537.0	3206.0	2945.0	2727.0	2574.0	2453.0	2402.0	2394.0
30°	4377.0	4150.0	3707.0	3323.0	2993.0	2723.0	2507.0	2349.0	2247.0	2192.0	2191.0
32.5°	4180.0	3943.0	3504.0	3109.0	2778.0	2505.0	2301.0	2148.0	2046.0	1992.0	1984.0
35°	3979.0	3736.0	3300.0	2905.0	2580.0	2313.0	2109.0	1961.0	1865.0	1810.0	1811.0
37.5°	3757.0	3522.0	3082.0	2699.0	2386.0	2134.0	1934.0	1790.0	1703.0	1652.0	1649.0
40°	3533.0	3305.0	2876.0	2509.0	2201.0	1957.0	1769.0	1637.0	1553.0	1506.0	1500.0
42.5°	3316.0	3084.0	2668.0	2316.0	2027.0	1796.0	1617.0	1501.0	1417.0	1381.0	1374.0
45°	3092.0	2875.0	2464.0	2135.0	1856.0	1649.0	1484.0	1373.0	1297.0	1262.0	1258.0
47.5°	2858.0	2652.0	2284.0	1965.0	1708.0	1509.0	1360.0	1260.0	1192.0	1157.0	1151.0
50°	2638.0	2449.0	2089.0	1802.0	1563.0	1385.0	1252.0	1157.0	1092.0	1062.0	1057.0
52.5°	2425.0	2237.0	1911.0	1648.0	1430.0	1265.0	1145.0	1057.0	1002.0	975.0	975.0
55°	2209.0	2037.0	1740.0	1500.0	1305.0	1152.0	1049.0	969.0	919.0	895.0	890.0
57.5°	1997.0	1843.0	1576.0	1357.0	1185.0	1050.0	954.0	887.0	843.0	818.0	815.0
60°	1791.0	1658.0	1415.0	1219.0	1069.0	952.0	866.0	805.0	765.0	746.0	746.0
62.5°	1599.0	1473.0	1260.0	1094.0	955.0	857.0	780.0	726.0	692.0	678.0	673.0
65°	1401.0	1295.0	1117.0	962.0	848.0	762.0	698.0	652.0	622.0	608.0	603.0
67.5°	1218.0	1129.0	972.0	841.0	744.0	669.0	614.0	577.0	549.0	536.0	538.0
70°	1034.0	962.0	827.0	725.0	644.0	576.0	534.0	502.0	482.0	467.0	471.0
72.5°	865.0	797.0	692.0	603.0	537.0	490.0	453.0	426.0	409.0	400.0	403.0
75°	692.0	643.0	562.0	492.0	441.0	405.0	371.0	352.0	339.0	334.0	332.0
77.5°	538.0	496.0	437.0	385.0	347.0	319.0	295.0	283.0	270.0	267.0	267.0
80°	385.0	359.0	313.0	282.0	253.0	235.0	223.0	212.0	208.0	205.0	204.0
82.5°	254.0	232.0	208.0	188.0	173.0	162.0	153.0	151.0	146.0	145.0	146.0
85°	133.0	125.0	113.0	104.0	103.0	98.0	97.0	98.0	97.0	96.0	96.0
87.5°	48.0	44.0	44.0	45.0	48.0	51.0	52.0	56.0	58.0	60.0	61.0
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: P231803  
 CATALOG NUMBER: AXCL12A-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)