

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: P231802

Luminaire Tested: **AXCL12A-C-GRF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P231802  
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-C-GRF  
Description: AXCENT CUTOFF WALLPACK WITH FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14092 lumens  
Efficiency: N/A  
Efficacy: 114.2 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

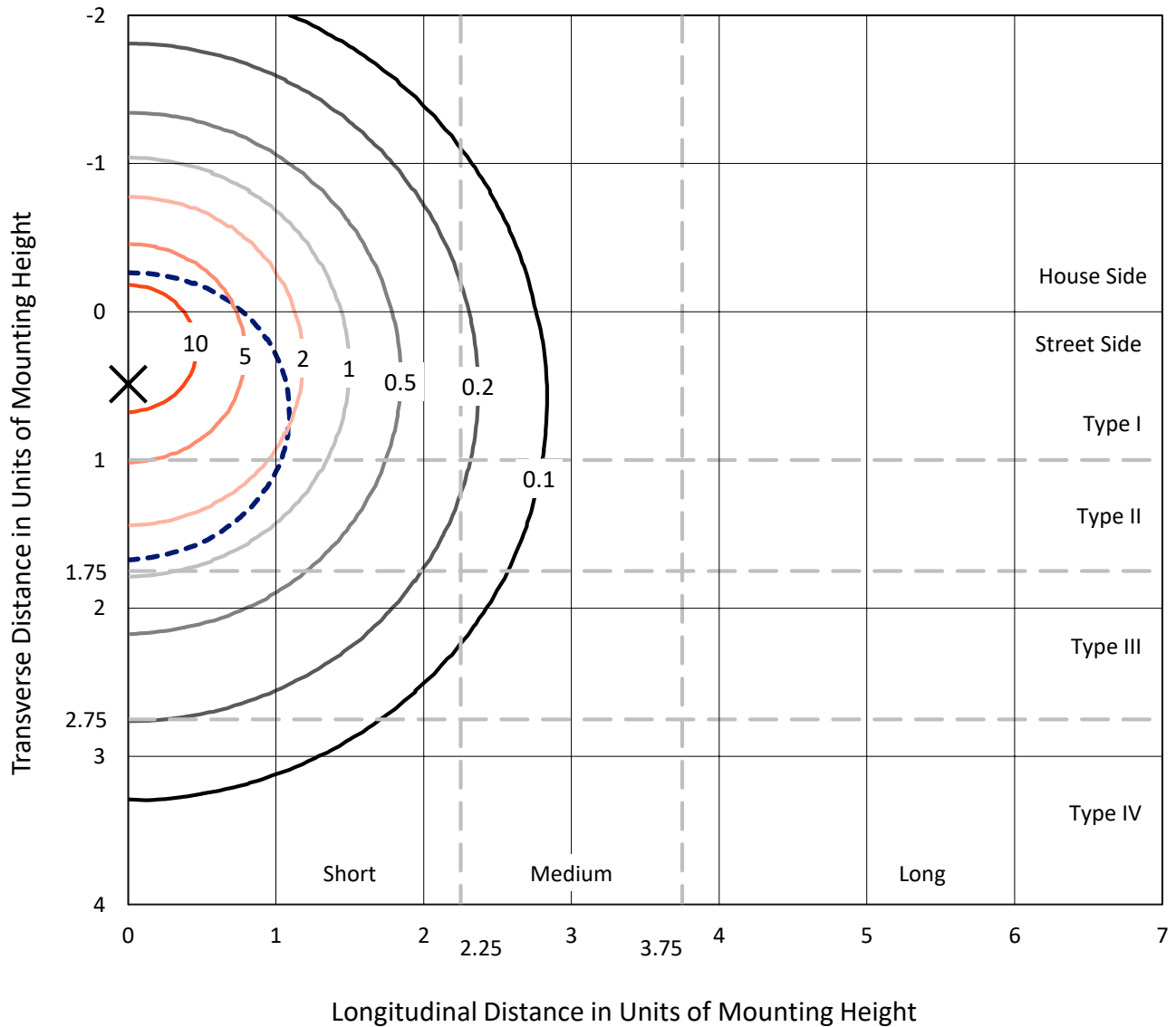
Input Watts (W): 123.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

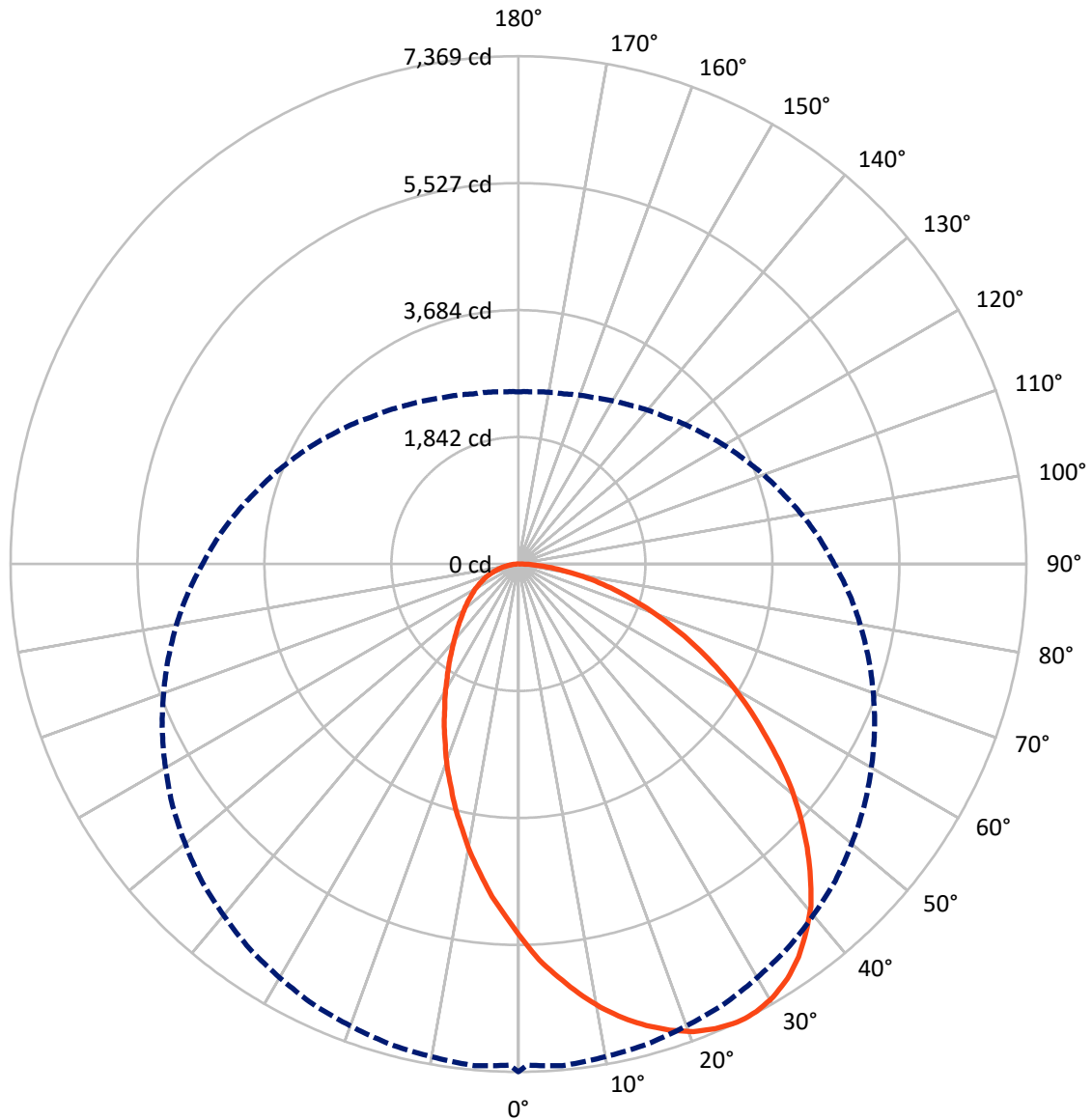
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.7 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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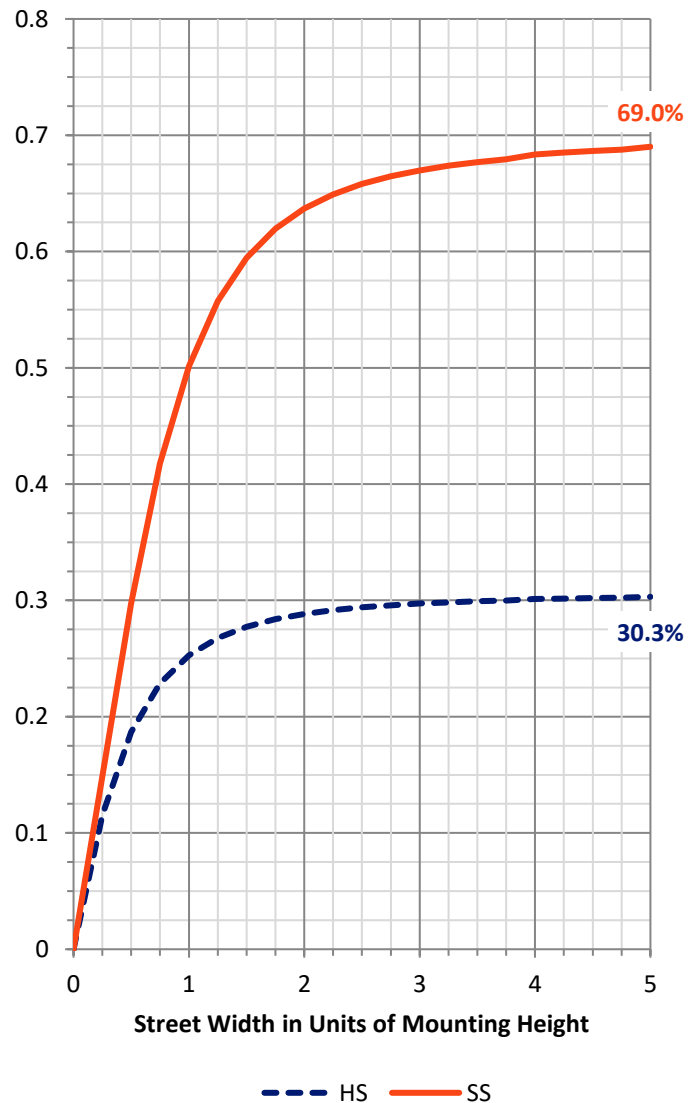
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4315.6	0.0	4315.6
	% Fixture	30.6	0.0	30.6
<b>Street Side</b>	Lumens	9776.5	0.0	9776.5
	% Fixture	69.4	0.0	69.4
<b>Total</b>	Lumens	14092.0	0.0	14092.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	513.9	3.6
10°-20°	1471.6	10.4
20°-30°	2212.2	15.7
30°-40°	2595.0	18.4
40°-50°	2554.1	18.1
50°-60°	2156.5	15.3
60°-70°	1539.0	10.9
70°-80°	834.2	5.9
80°-90°	215.4	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°	14092.0	100.0
0°-180°	14092.0	100.0



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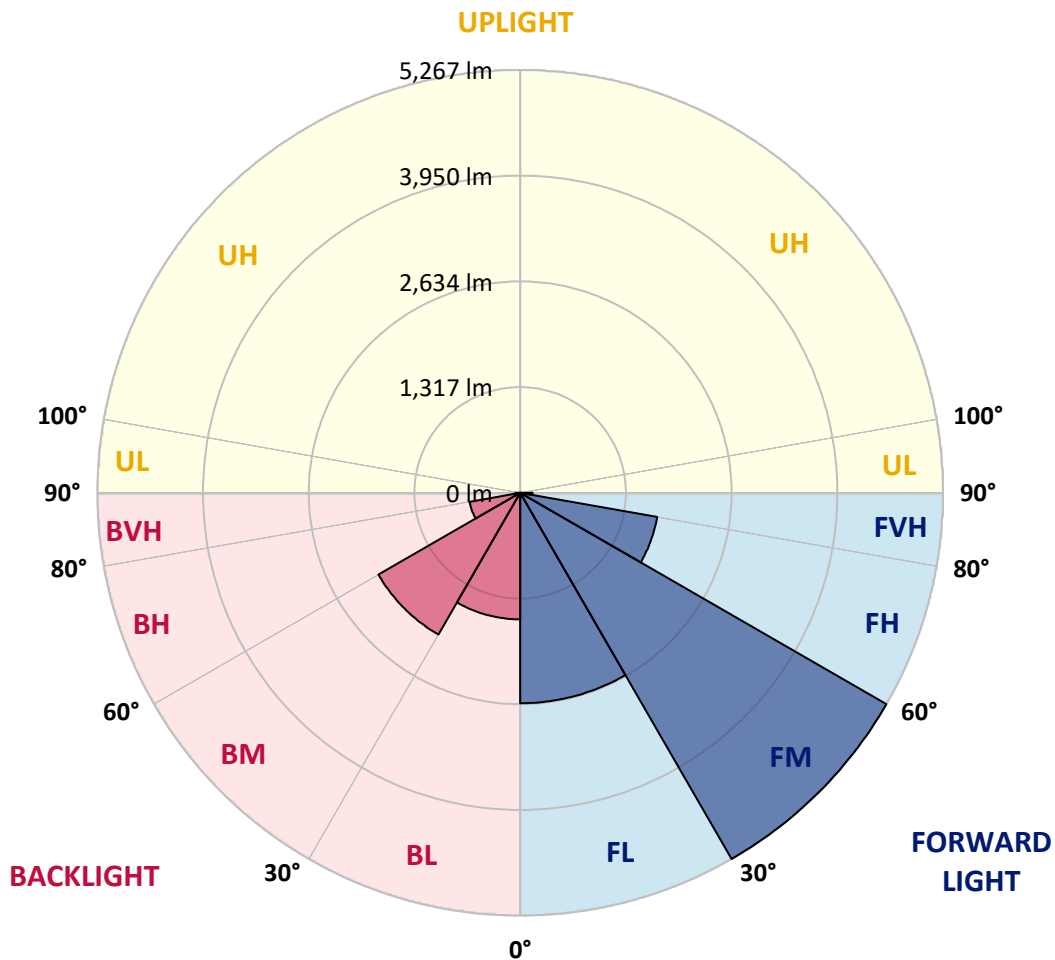
CATALOG NUMBER: AXCL12A-C-GRF

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2621.4	18.6			
FM	(30°-60°)	5267.3	37.4			
FH	(60°-80°)	1733.3	12.3			G1/1800
FVH	(80°-90°)	154.4	1.1			G2/225
BL	(0°-30°)	1576.3	11.2	B3/2500		
BM	(30°-60°)	2038.3	14.5	B2/2500		
BH	(60°-80°)	639.9	4.5	B2/1000		G2/1000
BVH	(80°-90°)	61.0	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5433.3	5433.3	5433.3	5433.3	5433.3	5433.3	5433.3	5433.3	5433.3	5433.3	5433.3
2.5°	5751.8	5696.7	5725.2	5719.3	5688.9	5670.2	5641.7	5594.5	5554.2	5501.1	5451.0
5°	6019.2	5964.1	5991.6	5973.0	5938.6	5879.6	5816.7	5738.0	5653.5	5550.3	5452.9
7.5°	6287.5	6222.7	6248.2	6219.7	6161.7	6089.0	5989.7	5859.9	5735.1	5585.6	5439.2
10°	6542.1	6461.5	6490.0	6448.8	6372.1	6263.9	6136.1	5973.0	5798.0	5604.3	5409.7
12.5°	6759.4	6673.9	6714.2	6657.2	6565.7	6427.1	6269.8	6067.3	5846.1	5606.3	5362.5
15°	6949.1	6870.5	6902.9	6840.0	6732.8	6574.6	6376.0	6139.1	5870.7	5589.6	5298.6
17.5°	7112.3	7034.6	7070.0	6992.4	6870.5	6685.7	6457.6	6179.4	5876.6	5550.3	5218.0
20°	7244.0	7151.6	7188.0	7105.4	6970.7	6764.3	6512.6	6199.1	5855.0	5490.3	5118.7
22.5°	7323.7	7235.2	7269.6	7182.1	7031.7	6809.5	6531.3	6190.2	5811.7	5408.7	4998.8
25°	7366.9	7272.5	7305.0	7210.6	7051.4	6817.4	6516.6	6147.9	5741.9	5309.4	4872.9
26°	7368.9	7272.5	7307.9	7211.6	7049.4	6808.5	6500.9	6124.3	5701.6	5257.3	4812.0
27.5°	7354.1	7258.8	7292.2	7194.9	7029.7	6782.0	6465.5	6080.1	5638.7	5176.7	4712.7
30°	7288.3	7196.8	7228.3	7132.0	6958.9	6706.3	6376.0	5970.0	5512.9	5028.3	4547.5
32.5°	7170.3	7075.9	7107.4	7015.0	6842.0	6576.5	6247.2	5824.5	5358.6	4859.2	4357.8
35°	7001.2	6913.7	6949.1	6848.8	6669.9	6411.4	6077.2	5652.5	5176.7	4669.4	4159.2
37.5°	6777.1	6693.5	6727.9	6630.6	6467.4	6205.9	5868.8	5441.1	4966.3	4457.1	3951.8
40°	6535.3	6440.9	6466.4	6367.2	6215.8	5949.4	5631.8	5211.1	4730.4	4234.0	3722.8
42.5°	6212.8	6139.1	6171.5	6084.0	5919.9	5668.2	5358.6	4946.7	4490.5	3990.2	3498.6
45°	5872.7	5804.9	5837.3	5752.8	5606.3	5378.2	5062.7	4670.4	4222.2	3744.4	3269.6
47.5°	5514.9	5454.9	5468.7	5400.8	5247.5	5037.1	4742.2	4365.7	3940.0	3488.8	3038.6
50°	5140.3	5077.4	5087.2	5033.2	4893.6	4698.9	4411.9	4070.8	3662.8	3242.1	2797.7
52.5°	4729.4	4687.1	4712.7	4642.9	4512.2	4332.3	4077.7	3749.3	3370.8	2973.7	2574.6
55°	4319.5	4296.9	4313.6	4254.6	4140.6	3968.5	3742.4	3439.7	3097.6	2717.1	2348.5
57.5°	3938.1	3893.8	3918.4	3872.2	3764.1	3606.8	3399.4	3118.2	2801.7	2463.5	2131.2
60°	3547.8	3525.2	3532.1	3471.1	3392.5	3248.0	3055.3	2811.5	2515.6	2224.6	1905.1
62.5°	3153.6	3121.2	3140.8	3092.6	3007.1	2889.2	2729.9	2503.8	2249.2	1974.9	1703.6
65°	2774.1	2749.6	2754.5	2716.1	2669.0	2547.1	2393.7	2202.0	1974.9	1736.1	1495.2
67.5°	2394.7	2409.4	2389.8	2355.4	2305.2	2210.9	2078.1	1907.1	1716.4	1510.9	1292.7
70°	2038.8	2046.7	2038.8	2015.2	1964.1	1901.2	1774.4	1640.7	1464.7	1279.9	1107.9
72.5°	1696.7	1718.4	1710.5	1688.9	1642.7	1569.9	1475.5	1363.5	1222.9	1066.6	924.1
75°	1383.1	1381.2	1398.9	1365.4	1334.0	1266.2	1195.4	1096.1	987.0	868.0	737.3
77.5°	1080.4	1083.3	1072.5	1062.7	1035.1	996.8	941.8	852.3	767.8	667.5	568.2
80°	781.5	797.2	795.3	780.5	763.8	729.4	689.1	629.1	554.4	483.7	411.9
82.5°	527.9	553.5	536.7	531.8	520.0	490.5	461.0	416.8	375.5	325.4	268.4
85°	308.7	337.2	323.4	321.5	313.6	289.0	270.3	243.8	208.4	177.9	145.5
87.5°	145.5	179.9	168.1	161.2	153.4	142.5	128.8	114.0	93.4	72.7	52.1
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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CATALOG NUMBER: AXCL12A-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





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5433.3	5433.3	5433.3	5433.3	5433.3	5433.3	5433.3	5433.3	5433.3	5433.3	5433.3
2.5°	5424.4	5402.8	5353.6	5302.5	5261.2	5212.1	5189.5	5157.0	5143.3	5132.5	5121.6
5°	5398.9	5353.6	5258.3	5157.0	5075.4	4991.9	4944.7	4884.7	4853.3	4826.7	4840.5
7.5°	5362.5	5287.8	5143.3	5009.6	4878.8	4761.9	4680.3	4613.4	4565.2	4525.9	4528.9
10°	5309.4	5213.1	5025.3	4846.4	4673.4	4532.8	4429.6	4340.1	4263.4	4243.8	4239.9
12.5°	5238.6	5121.6	4886.7	4666.5	4469.9	4304.7	4163.2	4052.1	3977.4	3942.0	3928.2
15°	5152.1	5011.5	4739.2	4485.6	4255.6	4057.0	3902.7	3779.8	3707.0	3650.0	3654.0
17.5°	5048.9	4890.6	4575.1	4292.0	4040.3	3820.1	3643.2	3521.3	3414.1	3367.9	3359.1
20°	4931.9	4756.0	4411.9	4098.3	3815.2	3583.2	3390.5	3249.9	3145.7	3103.5	3100.5
22.5°	4798.2	4609.5	4232.0	3890.9	3597.9	3339.4	3145.7	2989.4	2894.1	2837.1	2831.2
25°	4649.8	4442.4	4040.3	3683.5	3371.8	3112.3	2907.8	2750.5	2646.3	2601.1	2594.2
26°	4582.9	4376.5	3965.6	3606.8	3288.3	3016.0	2813.5	2658.1	2554.9	2507.7	2498.9
27.5°	4486.6	4261.5	3846.6	3477.0	3151.6	2895.1	2680.8	2530.3	2411.4	2361.3	2353.4
30°	4302.8	4079.6	3644.1	3266.6	2942.2	2676.8	2464.5	2309.2	2208.9	2154.8	2153.8
32.5°	4109.1	3876.1	3444.6	3056.3	2730.9	2462.5	2262.0	2111.6	2011.3	1958.2	1950.4
35°	3911.5	3672.6	3244.0	2855.7	2536.2	2273.8	2073.2	1927.7	1833.4	1779.3	1780.3
37.5°	3693.3	3462.3	3029.7	2653.2	2345.5	2097.8	1901.2	1759.6	1674.1	1624.0	1621.0
40°	3473.1	3249.0	2827.2	2466.5	2163.7	1923.8	1739.0	1609.2	1526.7	1480.5	1474.6
42.5°	3259.8	3031.7	2622.8	2276.7	1992.6	1765.5	1589.6	1475.5	1393.0	1357.6	1350.7
45°	3039.6	2826.2	2422.2	2098.8	1824.5	1621.0	1458.8	1349.7	1275.0	1240.6	1236.7
47.5°	2809.5	2607.0	2245.3	1931.7	1679.0	1483.4	1336.9	1238.6	1171.8	1137.4	1131.5
50°	2593.3	2407.5	2053.6	1771.4	1536.5	1361.5	1230.8	1137.4	1073.5	1044.0	1039.1
52.5°	2383.9	2199.1	1878.6	1620.1	1405.7	1243.5	1125.6	1039.1	985.0	958.5	958.5
55°	2171.5	2002.5	1710.5	1474.6	1282.9	1132.5	1031.2	952.6	903.4	879.8	874.9
57.5°	1963.1	1811.7	1549.3	1334.0	1164.9	1032.2	937.8	872.0	828.7	804.1	801.2
60°	1760.6	1629.9	1391.0	1198.3	1050.9	935.9	851.3	791.3	752.0	733.3	733.3
62.5°	1571.9	1448.0	1238.6	1075.4	938.8	842.5	766.8	713.7	680.3	666.5	661.6
65°	1377.2	1273.0	1098.1	945.7	833.6	749.1	686.2	640.9	611.5	597.7	592.8
67.5°	1197.3	1109.9	955.5	826.7	731.4	657.7	603.6	567.2	539.7	526.9	528.9
70°	1016.5	945.7	813.0	712.7	633.1	566.2	524.9	493.5	473.8	459.1	463.0
72.5°	850.3	783.5	680.3	592.8	527.9	481.7	445.3	418.8	402.1	393.2	396.2
75°	680.3	632.1	552.5	483.7	433.5	398.1	364.7	346.0	333.3	328.3	326.4
77.5°	528.9	487.6	429.6	378.5	341.1	313.6	290.0	278.2	265.4	262.5	262.5
80°	378.5	352.9	307.7	277.2	248.7	231.0	219.2	208.4	204.5	201.5	200.5
82.5°	249.7	228.1	204.5	184.8	170.1	159.3	150.4	148.4	143.5	142.5	143.5
85°	130.7	122.9	111.1	102.2	101.3	96.3	95.4	96.3	95.4	94.4	94.4
87.5°	47.2	43.3	43.3	44.2	47.2	50.1	51.1	55.1	57.0	59.0	60.0
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: P231802

CATALOG NUMBER: AXCL12A-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)