

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: P231804

Luminaire Tested: **AXCL12A-W-GRF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P231804  
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-W-GRF  
Description: AXCENT CUTOFF WALLPACK WITH FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12494 lumens  
Efficiency: N/A  
Efficacy: 101.2 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

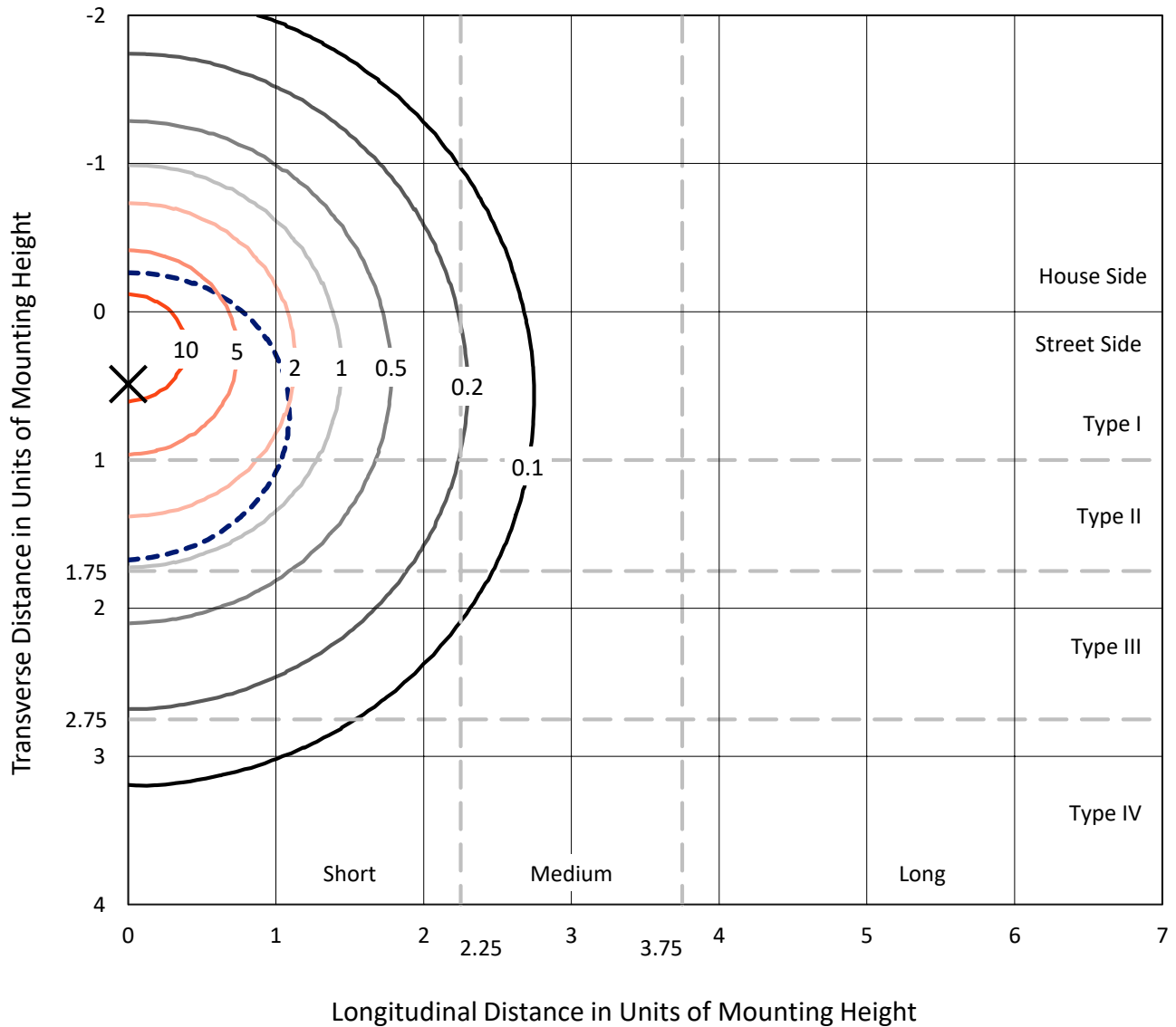
Input Watts (W): 123.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

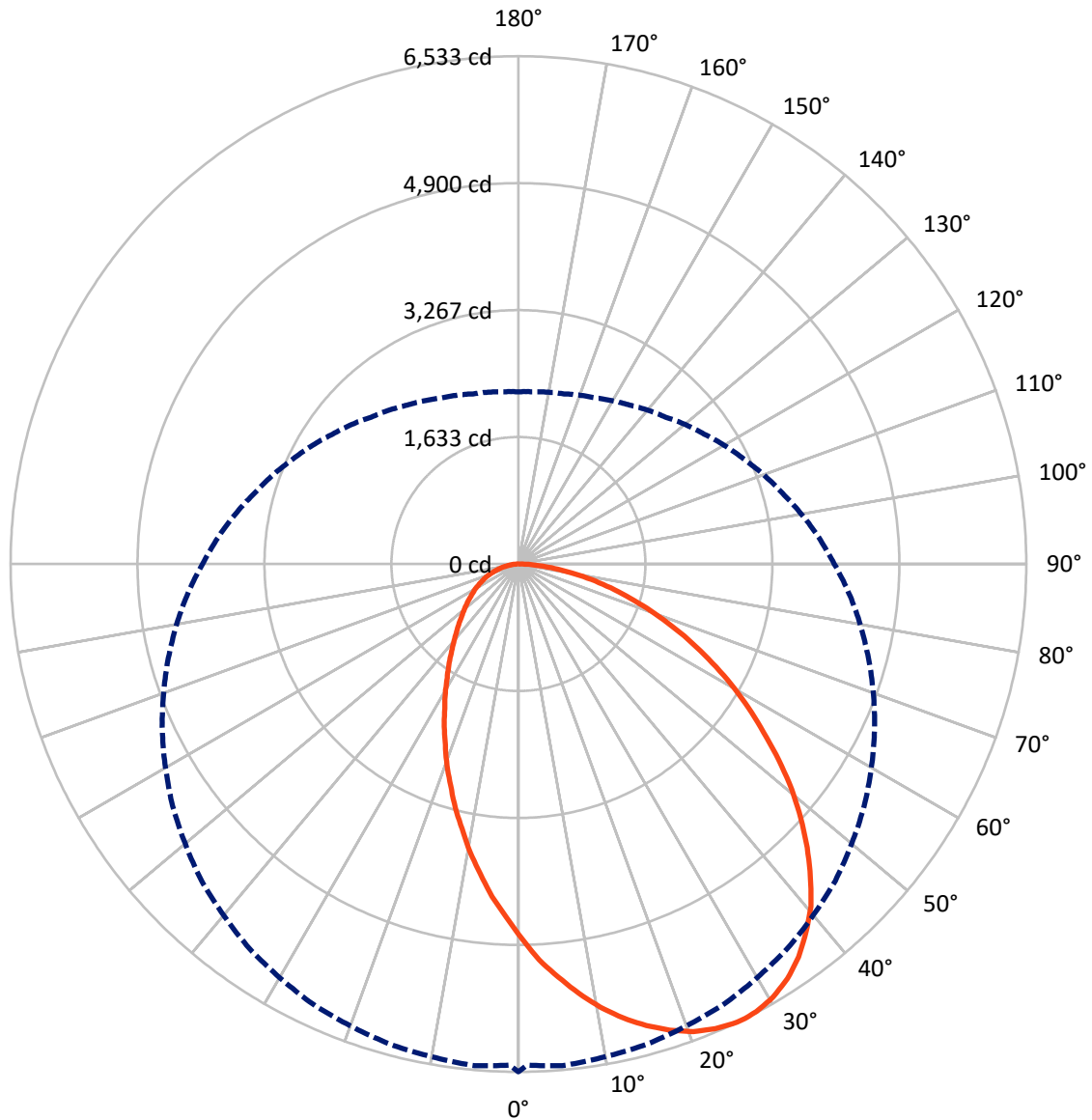
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.9 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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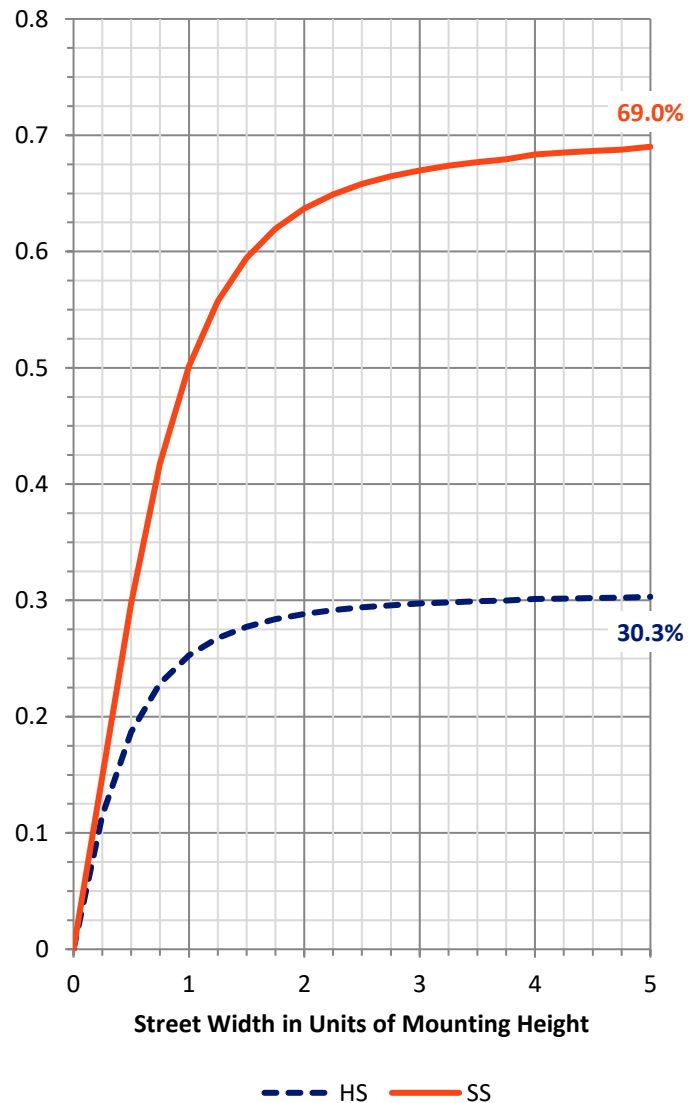
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3826.2	0.0	3826.2
	% Fixture	30.6	0.0	30.6
<b>Street Side</b>	Lumens	8667.8	0.0	8667.8
	% Fixture	69.4	0.0	69.4
<b>Total</b>	Lumens	12494.0	0.0	12494.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	455.6	3.6
10°-20°	1304.7	10.4
20°-30°	1961.4	15.7
30°-40°	2300.8	18.4
40°-50°	2264.5	18.1
50°-60°	1911.9	15.3
60°-70°	1364.5	10.9
70°-80°	739.6	5.9
80°-90°	191.0	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°	12494.0	100.0
0°-180°	12494.0	100.0

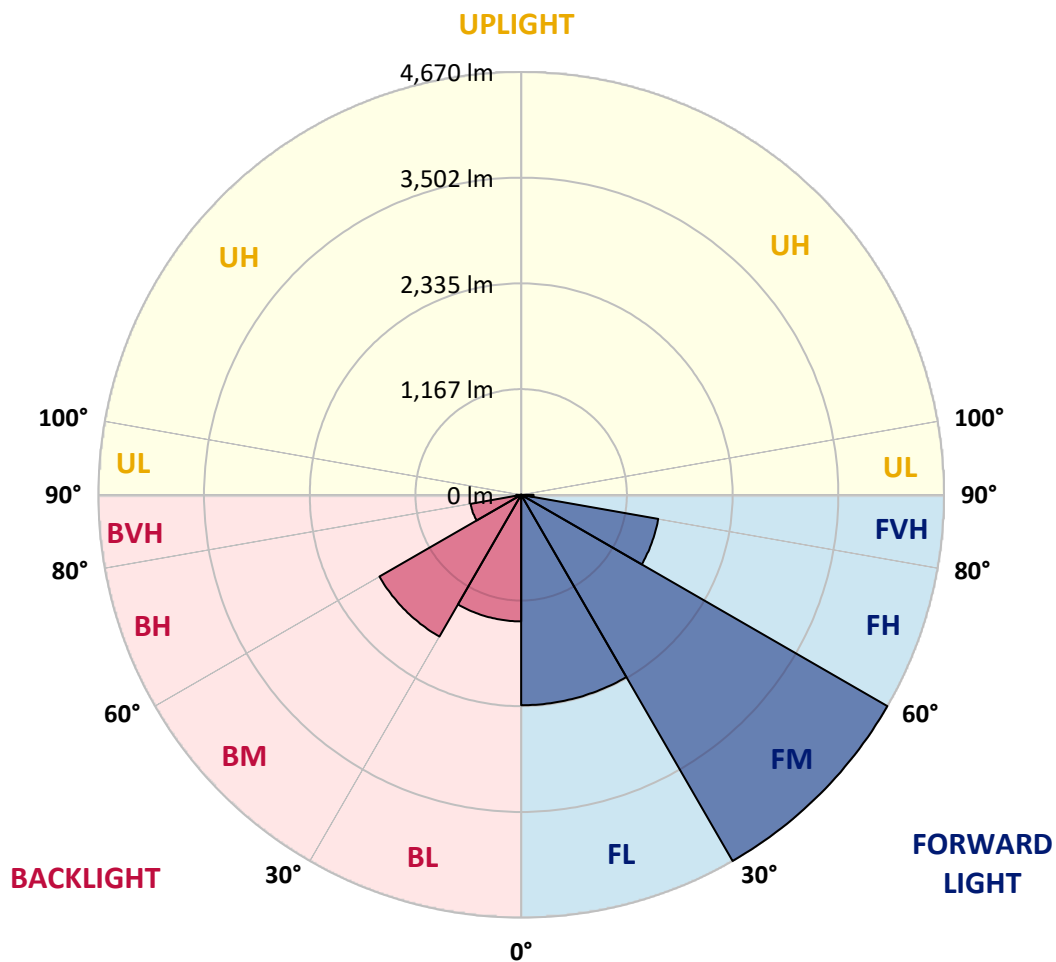


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2324.1	18.6			
FM (30°-60°)	4670.0	37.4			
FH (60°-80°)	1536.8	12.3			G1/1800
FVH (80°-90°)	136.9	1.1			G2/225
BL (0°-30°)	1397.6	11.2	B3/2500		
BM (30°-60°)	1807.2	14.5	B2/2500		
BH (60°-80°)	567.4	4.5	B2/1000		G2/1000
BVH (80°-90°)	54.1	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°	4817.1	4817.1	4817.1	4817.1	4817.1	4817.1	4817.1	4817.1	4817.1	4817.1	4817.1
2.5°	5099.5	5050.7	5076.0	5070.7	5043.7	5027.2	5001.9	4960.1	4924.3	4877.3	4832.8
5°	5336.6	5287.8	5312.2	5295.6	5265.1	5212.8	5157.0	5087.3	5012.4	4920.8	4834.6
7.5°	5574.5	5517.0	5539.6	5514.4	5462.9	5398.5	5310.4	5195.4	5084.7	4952.2	4822.4
10°	5800.2	5728.8	5754.1	5717.4	5649.5	5553.6	5440.3	5295.6	5140.5	4968.8	4796.2
12.5°	5992.9	5917.0	5952.8	5902.2	5821.2	5698.3	5558.8	5379.3	5183.2	4970.5	4754.4
15°	6161.1	6091.3	6120.1	6064.3	5969.3	5829.0	5652.9	5442.9	5205.0	4955.7	4697.7
17.5°	6305.7	6236.9	6268.3	6199.4	6091.3	5927.5	5725.3	5478.6	5210.2	4920.8	4626.3
20°	6422.5	6340.6	6372.9	6299.6	6180.2	5997.2	5774.1	5496.1	5191.0	4867.7	4538.2
22.5°	6493.1	6414.7	6445.2	6367.6	6234.3	6037.3	5790.7	5488.2	5152.7	4795.3	4431.9
25°	6531.5	6447.8	6476.6	6392.9	6251.7	6044.3	5777.6	5450.7	5090.8	4707.3	4320.3
26°	6533.2	6447.8	6479.2	6393.8	6250.0	6036.4	5763.6	5429.8	5055.1	4661.1	4266.3
27.5°	6520.2	6435.6	6465.2	6379.0	6232.5	6012.9	5732.3	5390.6	4999.3	4589.6	4178.3
30°	6461.8	6380.7	6408.6	6323.2	6169.8	5945.8	5652.9	5293.0	4887.7	4458.0	4031.8
32.5°	6357.2	6273.5	6301.4	6219.5	6066.1	5830.7	5538.8	5164.0	4750.9	4308.1	3863.6
35°	6207.3	6129.7	6161.1	6072.2	5913.5	5684.3	5388.0	5011.5	4589.6	4139.9	3687.6
37.5°	6008.5	5934.5	5965.0	5878.7	5734.0	5502.2	5203.2	4824.1	4403.1	3951.7	3503.7
40°	5794.1	5710.5	5733.1	5645.1	5510.9	5274.7	4993.2	4620.1	4194.0	3753.8	3300.6
42.5°	5508.3	5442.9	5471.7	5394.1	5248.5	5025.4	4750.9	4385.7	3981.3	3537.7	3101.9
45°	5206.7	5146.6	5175.3	5100.4	4970.5	4768.3	4488.5	4140.8	3743.4	3319.8	2898.8
47.5°	4889.5	4836.3	4848.5	4788.4	4652.4	4465.9	4204.4	3870.6	3493.2	3093.2	2694.0
50°	4557.4	4501.6	4510.3	4462.4	4338.6	4166.1	3911.6	3609.1	3247.4	2874.4	2480.5
52.5°	4193.1	4155.6	4178.3	4116.4	4000.5	3841.0	3615.2	3324.1	2988.6	2636.5	2282.6
55°	3829.6	3809.6	3824.4	3772.1	3671.0	3518.5	3318.0	3049.6	2746.3	2409.0	2082.2
57.5°	3491.5	3452.3	3474.0	3433.1	3337.2	3197.8	3013.9	2764.6	2484.0	2184.1	1889.5
60°	3145.5	3125.4	3131.5	3077.5	3007.8	2879.6	2708.8	2492.7	2230.3	1972.3	1689.1
62.5°	2796.0	2767.2	2784.6	2741.9	2666.1	2561.5	2420.3	2219.9	1994.1	1751.0	1510.4
65°	2459.5	2437.8	2442.1	2408.1	2366.3	2258.2	2122.3	1952.3	1751.0	1539.2	1325.6
67.5°	2123.1	2136.2	2118.8	2088.3	2043.8	1960.1	1842.5	1690.8	1521.7	1339.6	1146.1
70°	1807.6	1814.6	1807.6	1786.7	1741.4	1685.6	1573.2	1454.6	1298.6	1134.8	982.3
72.5°	1504.3	1523.5	1516.5	1497.3	1456.4	1391.9	1308.2	1208.9	1084.2	945.6	819.3
75°	1226.3	1224.5	1240.2	1210.6	1182.7	1122.6	1059.8	971.8	875.0	769.6	653.7
77.5°	957.8	960.5	950.9	942.2	917.8	883.8	835.0	755.6	680.7	591.8	503.8
80°	692.9	706.8	705.1	692.0	677.2	646.7	611.0	557.8	491.6	428.8	365.2
82.5°	468.0	490.7	475.9	471.5	461.1	434.9	408.8	369.5	332.9	288.5	237.9
85°	273.7	298.9	286.7	285.0	278.0	256.2	239.7	216.1	184.8	157.8	129.0
87.5°	129.0	159.5	149.0	142.9	136.0	126.4	114.2	101.1	82.8	64.5	46.2
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



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CATALOG NUMBER: AXCL12A-W-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°	4817.1	4817.1	4817.1	4817.1	4817.1	4817.1	4817.1	4817.1	4817.1	4817.1	4817.1
2.5°	4809.3	4790.1	4746.5	4701.2	4664.6	4621.0	4601.0	4572.2	4560.0	4550.4	4540.8
5°	4786.6	4746.5	4662.0	4572.2	4499.9	4425.8	4384.0	4330.8	4302.9	4279.4	4291.6
7.5°	4754.4	4688.1	4560.0	4441.5	4325.6	4221.8	4149.5	4090.2	4047.5	4012.7	4015.3
10°	4707.3	4621.9	4455.4	4296.8	4143.4	4018.8	3927.3	3847.9	3780.0	3762.5	3759.0
12.5°	4644.6	4540.8	4332.5	4137.3	3963.0	3816.6	3691.1	3592.6	3526.3	3495.0	3482.8
15°	4567.9	4443.2	4201.8	3976.9	3773.0	3596.9	3460.1	3351.2	3286.7	3236.1	3239.6
17.5°	4476.3	4336.0	4056.2	3805.2	3582.1	3386.9	3230.0	3121.9	3026.9	2986.0	2978.1
20°	4372.6	4216.6	3911.6	3633.5	3382.5	3176.8	3006.0	2881.4	2789.0	2751.5	2748.9
22.5°	4254.1	4086.8	3752.1	3449.6	3189.9	2960.7	2789.0	2650.4	2565.9	2515.3	2510.1
25°	4122.5	3938.6	3582.1	3265.7	2989.5	2759.4	2578.1	2438.6	2346.2	2306.2	2300.1
26°	4063.2	3880.2	3515.9	3197.8	2915.4	2674.0	2494.4	2356.7	2265.2	2223.4	2215.5
27.5°	3977.8	3778.2	3410.4	3082.7	2794.2	2566.7	2376.7	2243.4	2137.9	2093.5	2086.5
30°	3814.8	3617.0	3230.9	2896.2	2608.6	2373.3	2185.0	2047.3	1958.4	1910.5	1909.6
32.5°	3643.1	3436.6	3054.0	2709.7	2421.2	2183.3	2005.5	1872.1	1783.2	1736.2	1729.2
35°	3467.9	3256.2	2876.2	2531.9	2248.6	2015.9	1838.1	1709.1	1625.5	1577.5	1578.4
37.5°	3274.5	3069.6	2686.2	2352.3	2079.5	1859.9	1685.6	1560.1	1484.3	1439.8	1437.2
40°	3079.2	2880.5	2506.6	2186.7	1918.3	1705.6	1541.8	1426.7	1353.5	1312.6	1307.3
42.5°	2890.1	2687.9	2325.3	2018.5	1766.7	1565.3	1409.3	1308.2	1235.0	1203.6	1197.5
45°	2694.9	2505.7	2147.5	1860.8	1617.6	1437.2	1293.4	1196.7	1130.4	1099.9	1096.4
47.5°	2490.9	2311.4	1990.6	1712.6	1488.6	1315.2	1185.3	1098.2	1038.9	1008.4	1003.2
50°	2299.2	2134.5	1820.7	1570.6	1362.3	1207.1	1091.2	1008.4	951.7	925.6	921.2
52.5°	2113.5	1949.7	1665.6	1436.3	1246.3	1102.5	997.9	921.2	873.3	849.8	849.8
55°	1925.3	1775.4	1516.5	1307.3	1137.4	1004.0	914.3	844.5	801.0	780.0	775.7
57.5°	1740.5	1606.3	1373.6	1182.7	1032.8	915.1	831.5	773.1	734.7	712.9	710.3
60°	1561.0	1445.0	1233.3	1062.4	931.7	829.7	754.8	701.6	666.7	650.2	650.2
62.5°	1393.6	1283.8	1098.2	953.5	832.3	746.9	679.8	632.8	603.1	590.9	586.6
65°	1221.1	1128.7	973.5	838.4	739.1	664.1	608.4	568.3	542.1	529.9	525.6
67.5°	1061.6	984.0	847.2	733.0	648.4	583.1	535.1	502.9	478.5	467.2	468.9
70°	901.2	838.4	720.8	631.9	561.3	502.0	465.4	437.5	420.1	407.0	410.5
72.5°	753.9	694.6	603.1	525.6	468.0	427.1	394.8	371.3	356.5	348.6	351.2
75°	603.1	560.4	489.8	428.8	384.4	353.0	323.3	306.8	295.5	291.1	289.4
77.5°	468.9	432.3	380.9	335.6	302.4	278.0	257.1	246.7	235.3	232.7	232.7
80°	335.6	312.9	272.8	245.8	220.5	204.8	194.4	184.8	181.3	178.7	177.8
82.5°	221.4	202.2	181.3	163.9	150.8	141.2	133.3	131.6	127.2	126.4	127.2
85°	115.9	108.9	98.5	90.6	89.8	85.4	84.5	85.4	84.5	83.7	83.7
87.5°	41.8	38.3	38.3	39.2	41.8	44.4	45.3	48.8	50.6	52.3	53.2
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: P231804  
 CATALOG NUMBER: AXCL12A-W-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)