

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

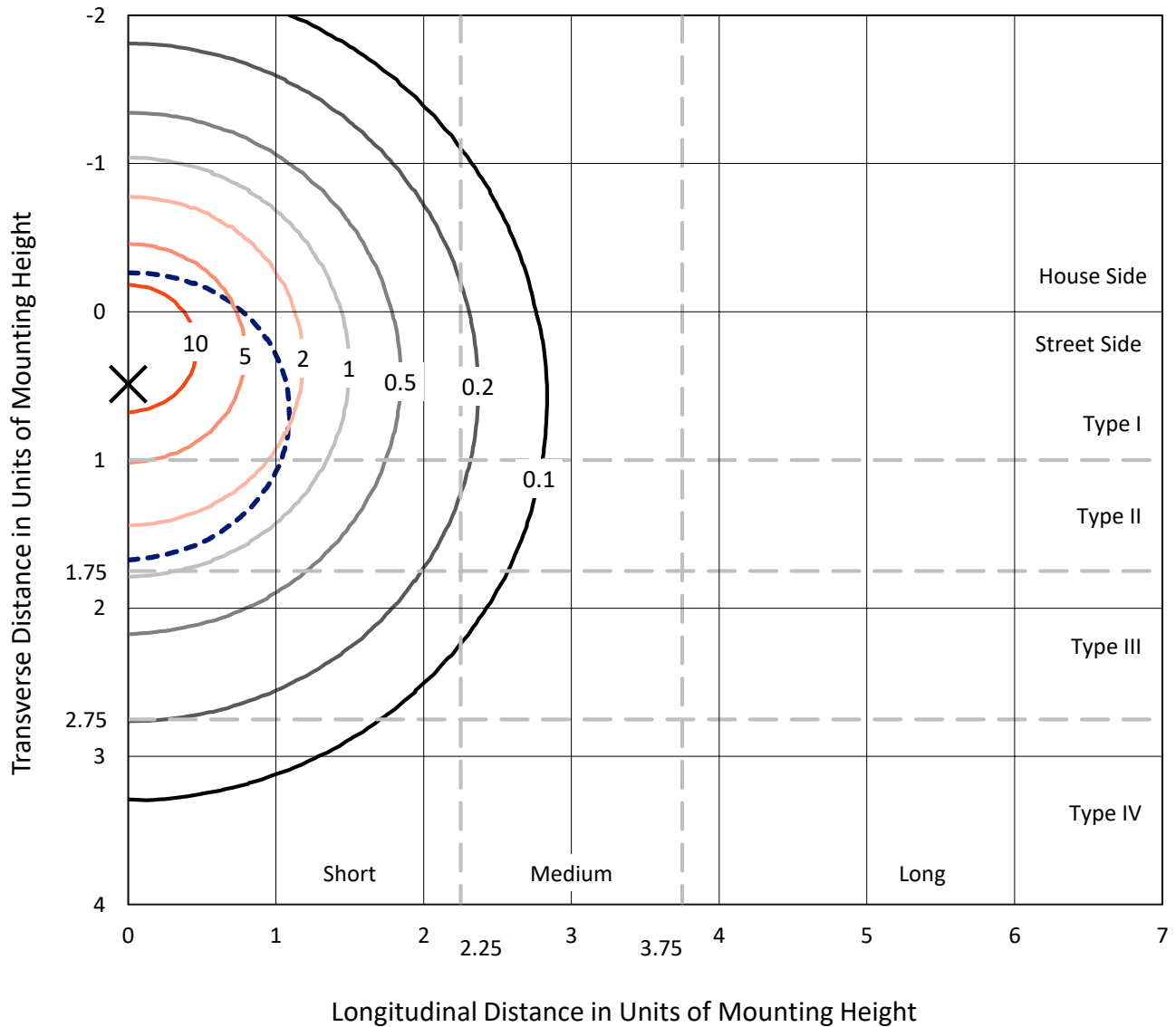
Input Watts (W): 123.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

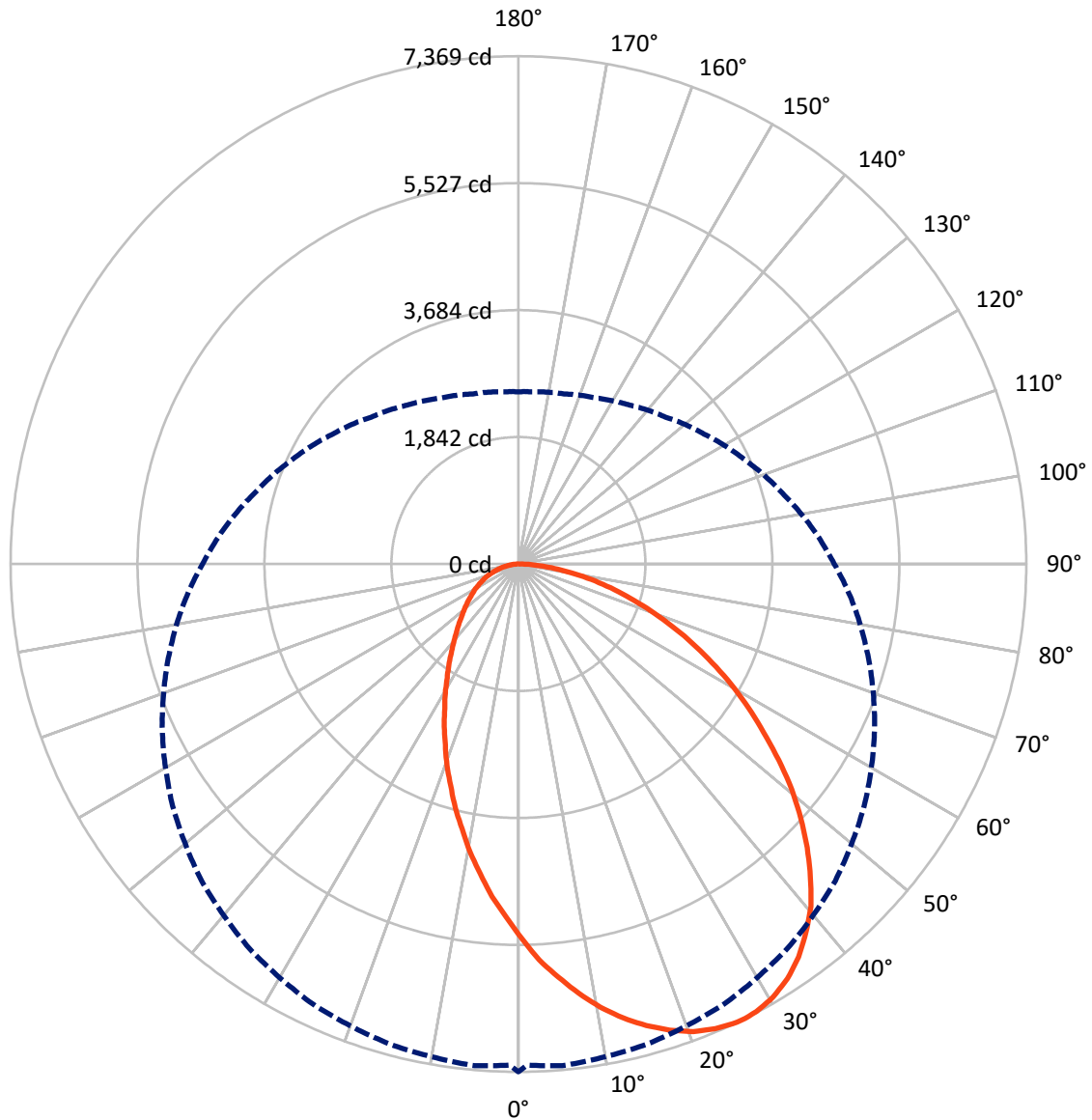
✕ Max cd
 - - - 1/2 Max cd



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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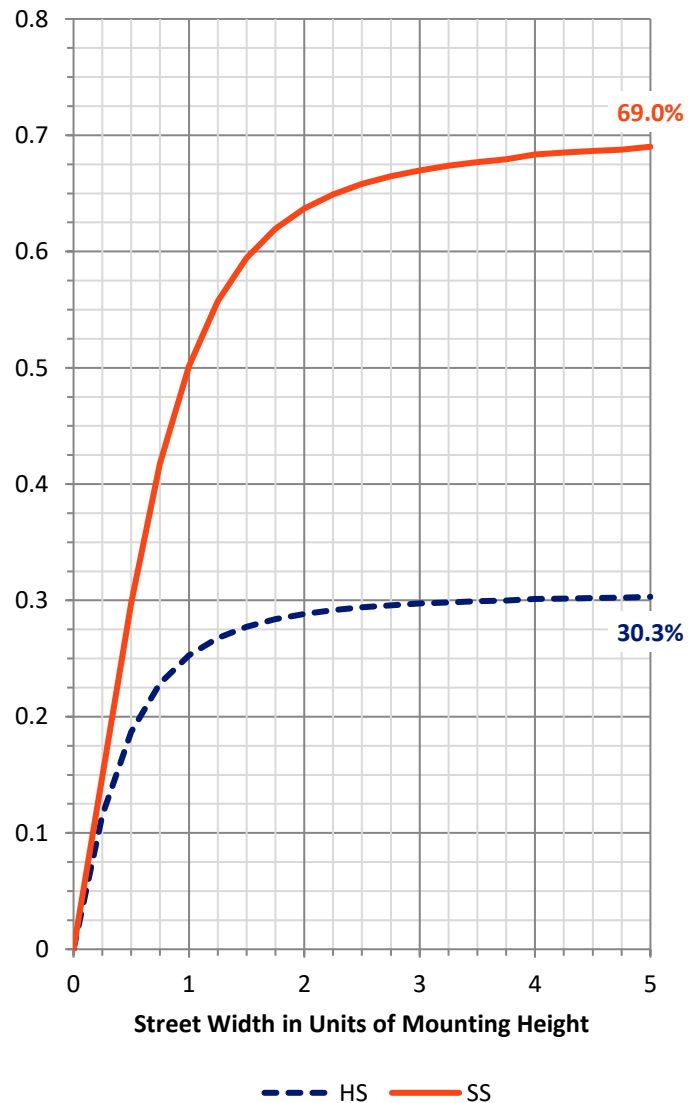
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4315.6 | 0.0 | 4315.6 |
| | % Fixture | 30.6 | 0.0 | 30.6 |
| Street Side | Lumens | 9776.5 | 0.0 | 9776.5 |
| | % Fixture | 69.4 | 0.0 | 69.4 |
| Total | 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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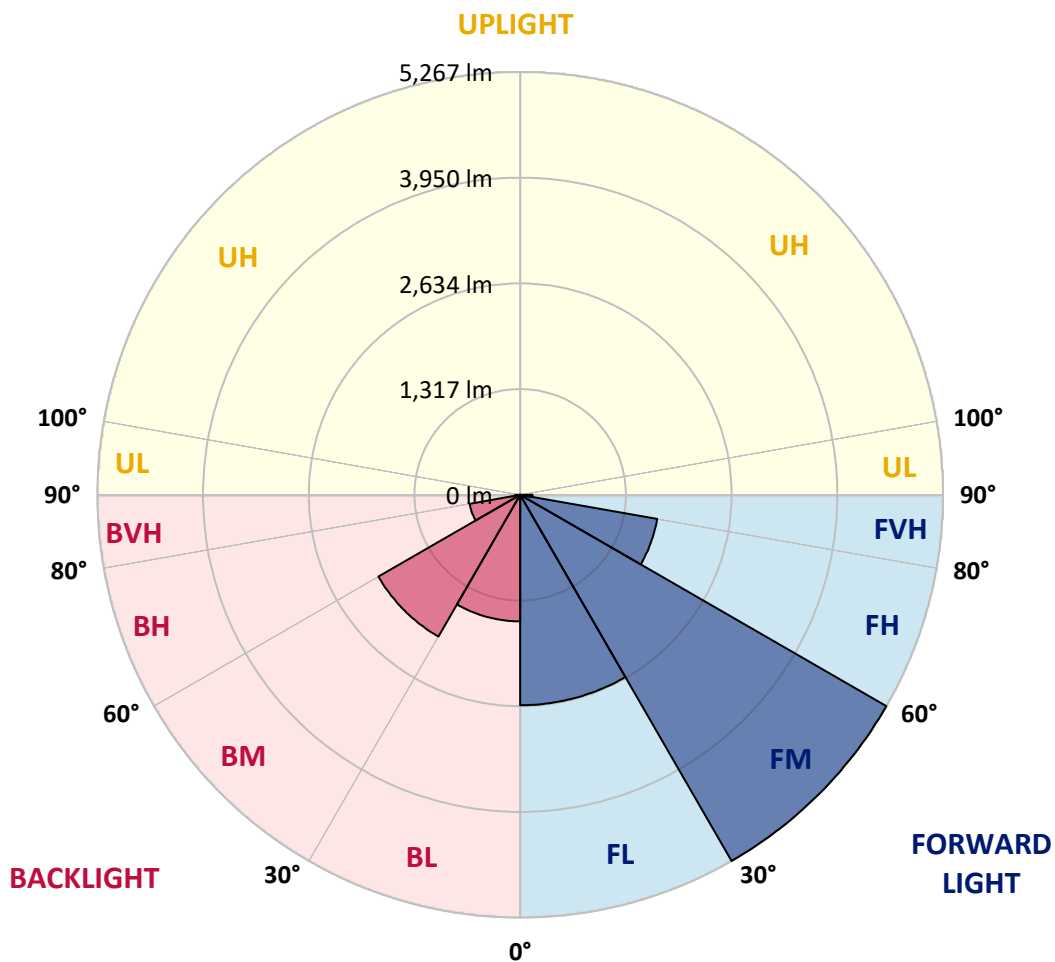
CATALOG NUMBER: AXCL12A-C-GRF

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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 CATALOG NUMBER: AXCL12A-C-GRF

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 |



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|--------|-----|-----|------|------|------|------|------|------|------|------|------|
| 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)