

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 0.29' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

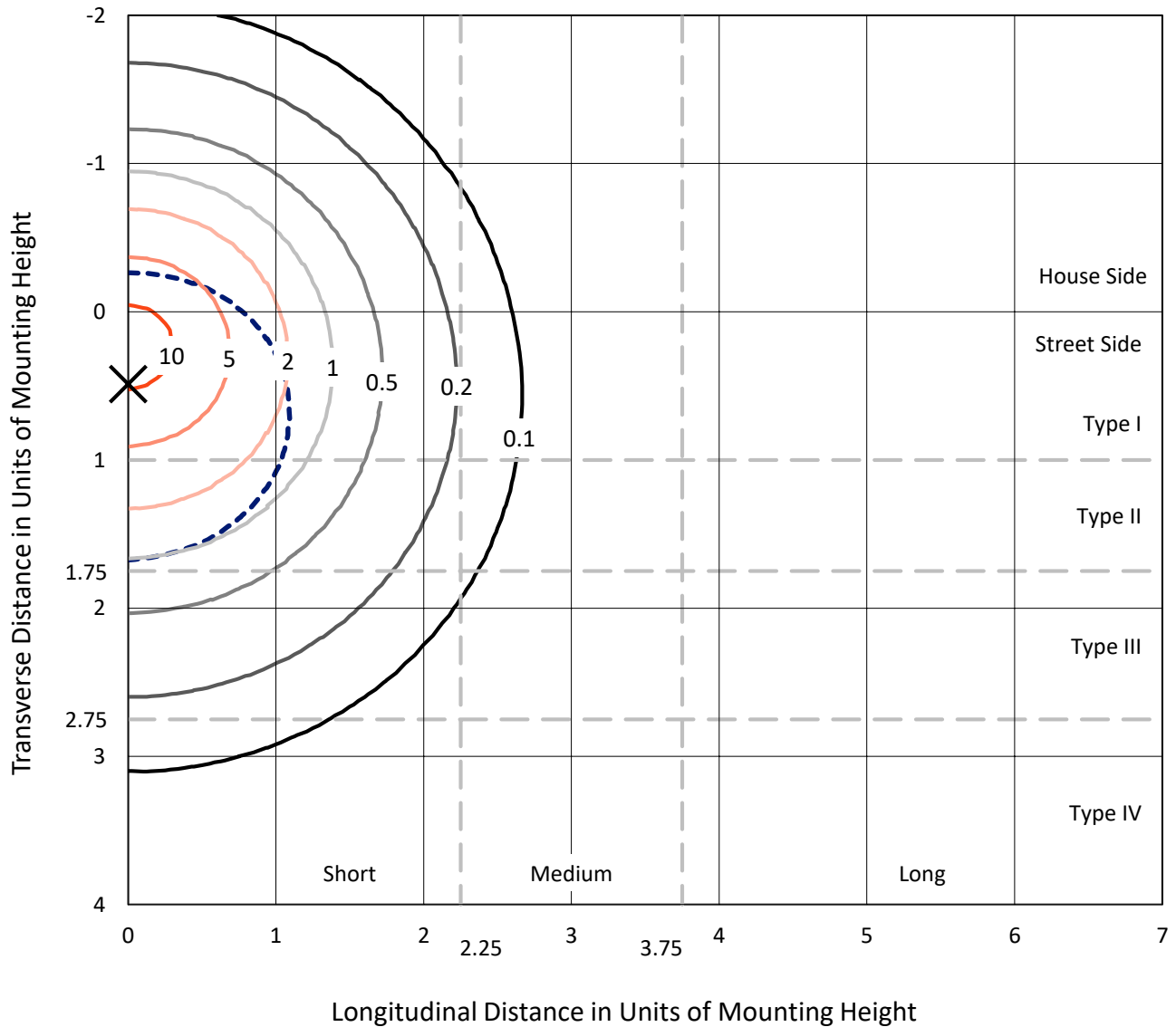
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

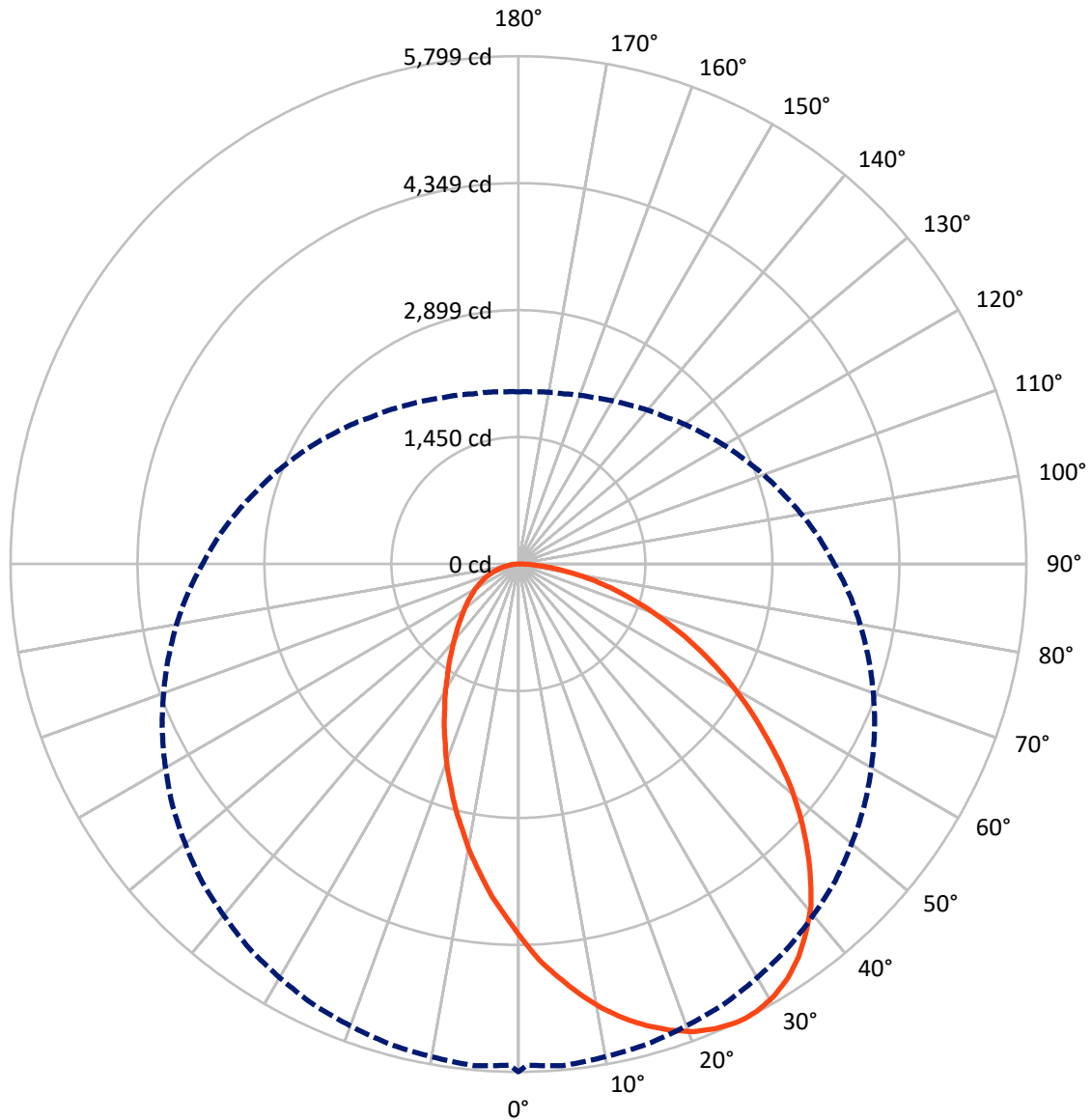
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.4 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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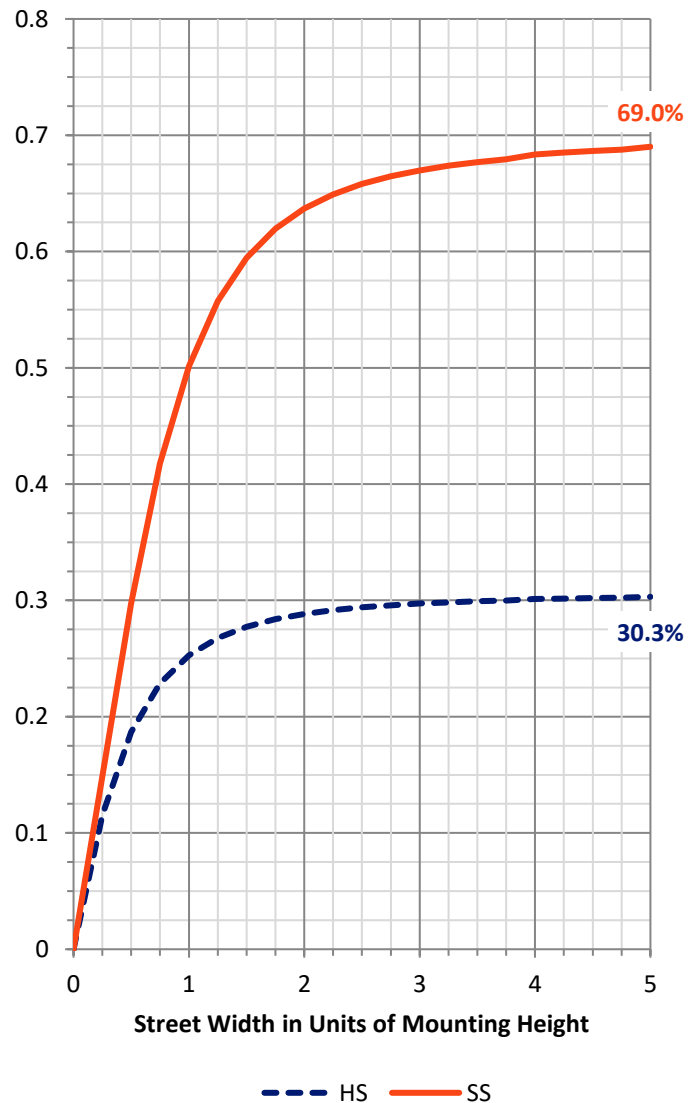
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3395.9 | 0.0 | 3395.9 |
| | % Fixture | 30.6 | 0.0 | 30.6 |
| Street Side | Lumens | 7693.1 | 0.0 | 7693.1 |
| | % Fixture | 69.4 | 0.0 | 69.4 |
| Total | 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 |



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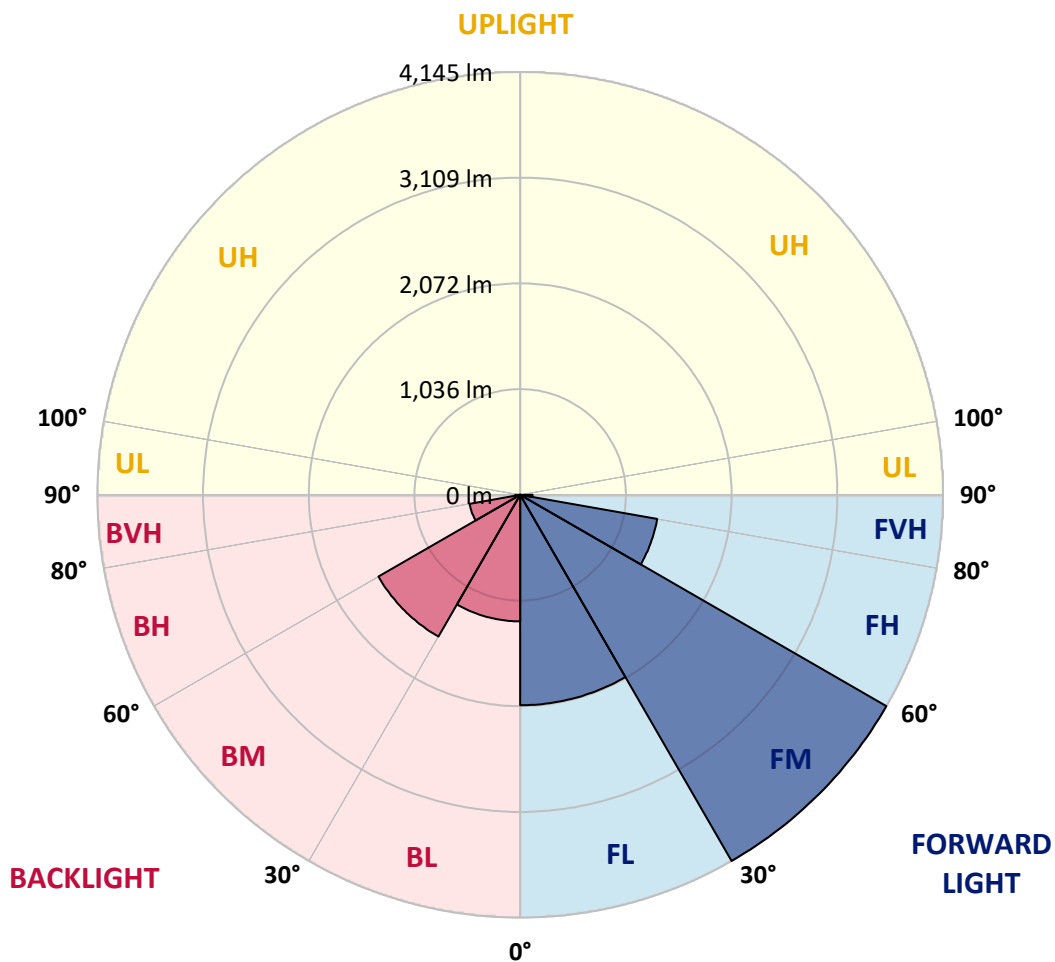
CATALOG NUMBER: AXCL10A-C-GRF

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 |



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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 |



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| | 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)