

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: STREETWORKS

Report Number: P299270

Luminaire Tested: **GAA-AF-10-LED-U-SL2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-10-LED-U-SL2-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36650.6 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

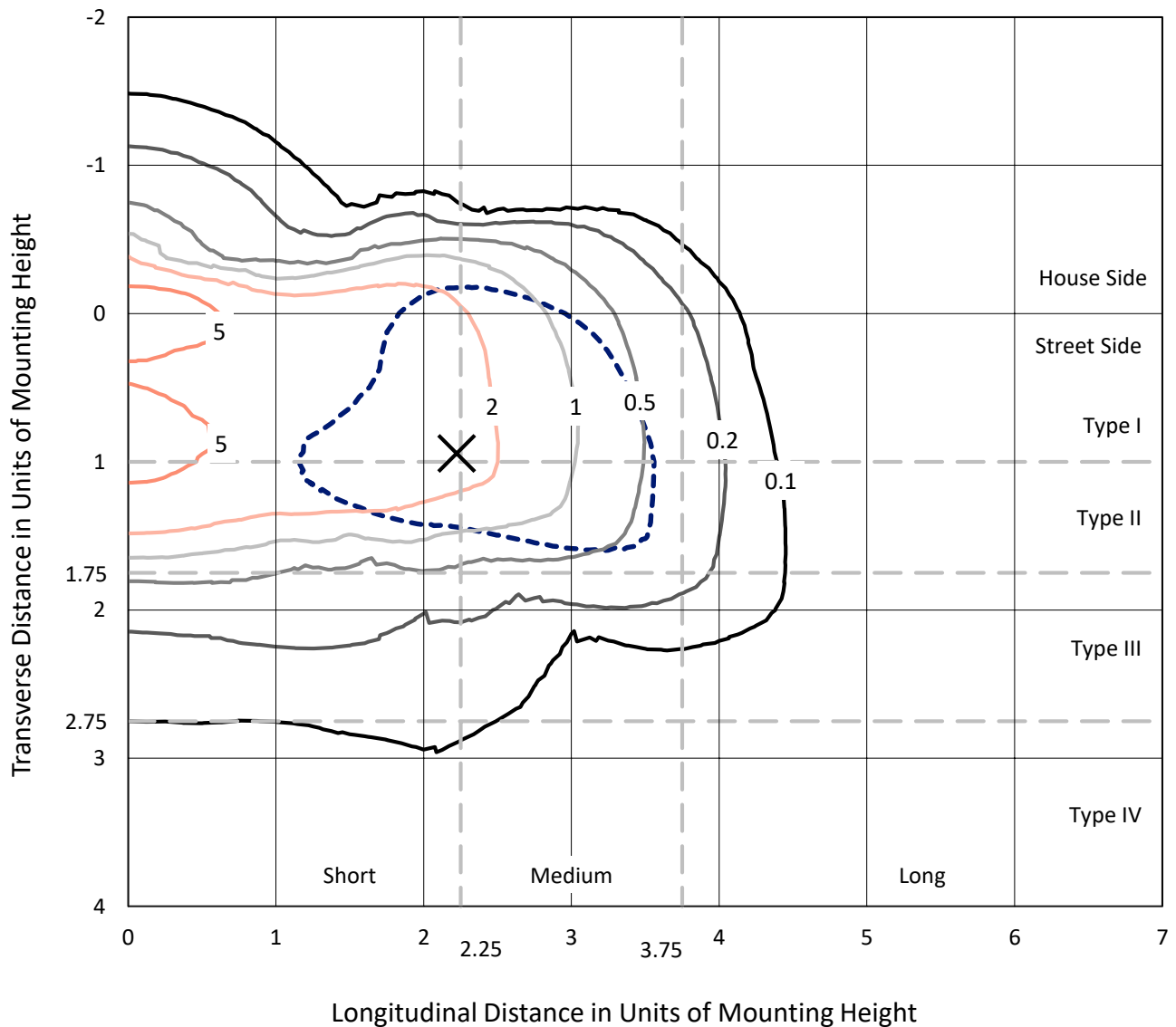
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

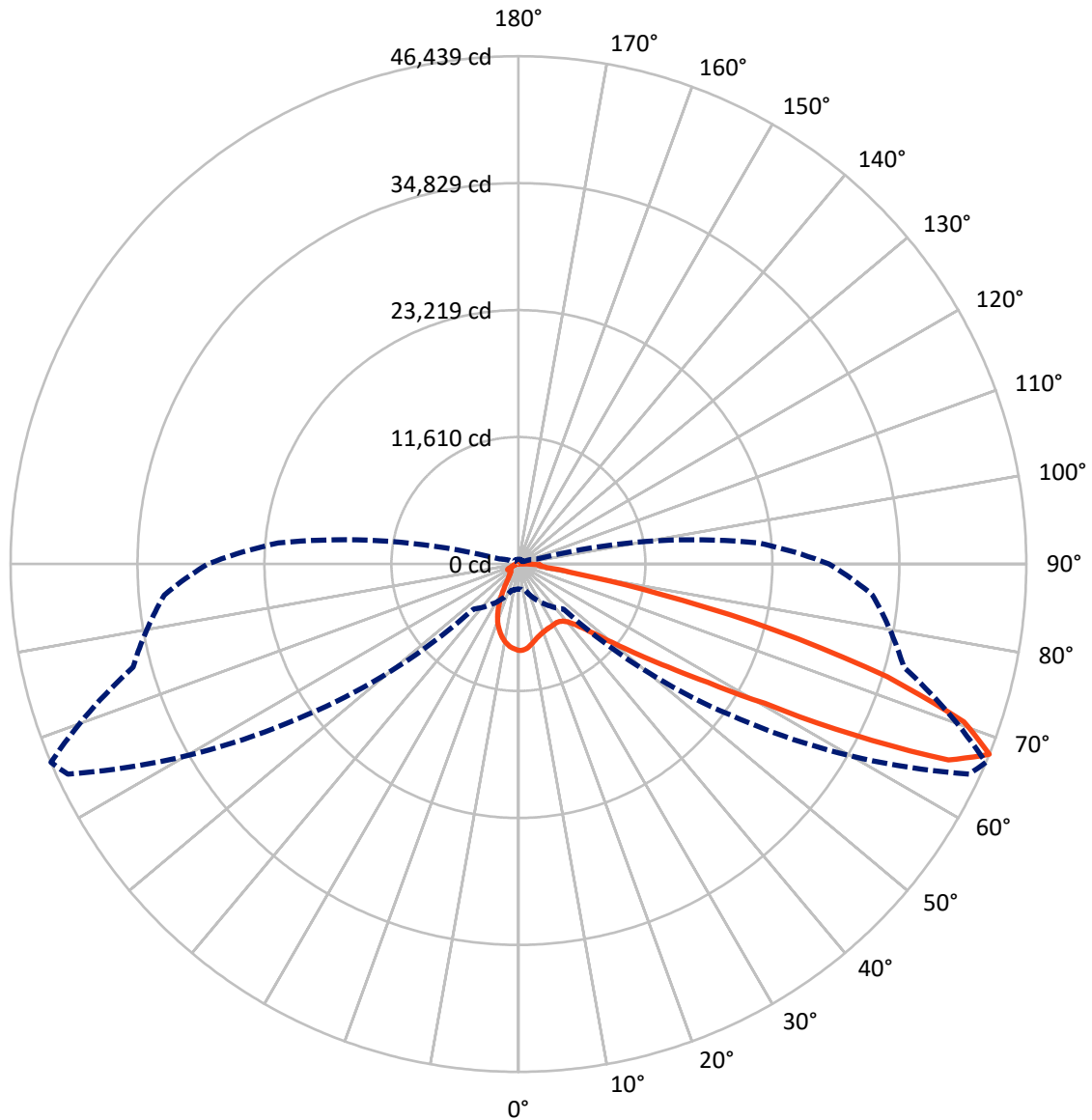
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6072.6 | 0.0 | 6072.6 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 30578.0 | 0.0 | 30578.0 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 36650.6 | 0.0 | 36650.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 674.5 | 1.8 |
| 10°-20° | 1560.6 | 4.3 |
| 20°-30° | 2115.4 | 5.8 |
| 30°-40° | 3007.2 | 8.2 |
| 40°-50° | 5031.2 | 13.7 |
| 50°-60° | 7959.4 | 21.7 |
| 60°-70° | 10139.5 | 27.7 |
| 70°-80° | 5311.1 | 14.5 |
| 80°-90° | 851.8 | 2.3 |
| 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° | 36650.6 | 100.0 |
| 0°-180° | 36650.6 | 100.0 |

Coefficient of Utilization



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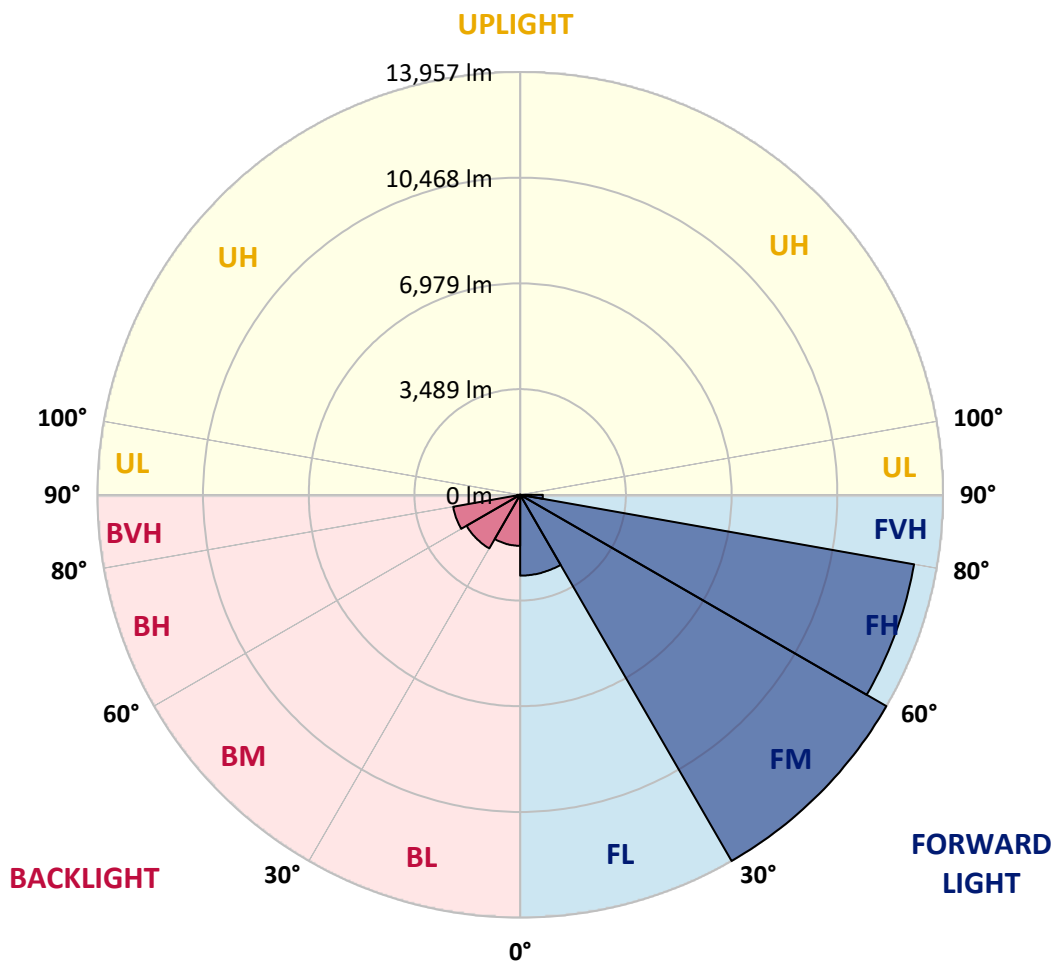
CATALOG NUMBER: GAA-AF-10-LED-U-SL2-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2667.3 | 7.3 | | | |
| FM | (30°-60°) | 13957.3 | 38.1 | | | |
| FH | (60°-80°) | 13204.5 | 36.0 | | | G5 |
| FVH | (80°-90°) | 749.0 | 2.0 | | | G4/750 |
| BL | (0°-30°) | 1683.2 | 4.6 | B3/2500 | | |
| BM | (30°-60°) | 2040.6 | 5.6 | B2/2500 | | |
| BH | (60°-80°) | 2246.1 | 6.1 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 102.8 | 0.3 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7905.5 | 7905.5 | 7905.5 | 7905.5 | 7905.5 | 7905.5 | 7905.5 | 7905.5 | 7905.5 | 7905.5 | 7905.5 |
| 2.5° | 7580.1 | 7592.8 | 7632.5 | 7657.8 | 7771.7 | 7820.5 | 7854.8 | 7889.2 | 7894.6 | 7910.9 | 7894.6 |
| 5° | 6784.9 | 6812.0 | 6886.1 | 6969.2 | 7189.7 | 7363.2 | 7545.8 | 7735.6 | 7769.9 | 7892.8 | 7927.1 |
| 7.5° | 6168.6 | 6161.3 | 6222.8 | 6322.2 | 6548.1 | 6788.5 | 7108.4 | 7486.1 | 7560.2 | 7836.8 | 7970.5 |
| 10° | 5718.5 | 5713.1 | 5778.2 | 5881.2 | 6096.3 | 6324.0 | 6685.5 | 7202.4 | 7307.2 | 7748.2 | 8012.1 |
| 12.5° | 5386.0 | 5387.8 | 5452.8 | 5566.7 | 5785.4 | 6014.9 | 6381.8 | 6927.7 | 7061.4 | 7645.2 | 8055.5 |
| 15° | 5165.5 | 5179.9 | 5232.3 | 5353.4 | 5566.7 | 5796.2 | 6155.9 | 6721.6 | 6871.6 | 7563.9 | 8104.3 |
| 17.5° | 5091.4 | 5114.9 | 5132.9 | 5221.5 | 5404.0 | 5633.6 | 5986.0 | 6569.8 | 6728.9 | 7507.8 | 8147.6 |
| 20° | 5160.1 | 5187.2 | 5152.8 | 5183.5 | 5299.2 | 5501.6 | 5852.3 | 6450.5 | 6613.2 | 7444.6 | 8153.1 |
| 22.5° | 5454.7 | 5480.0 | 5378.7 | 5290.2 | 5283.0 | 5405.9 | 5742.0 | 6356.5 | 6524.6 | 7397.6 | 8154.9 |
| 25° | 5973.4 | 5989.6 | 5819.7 | 5613.7 | 5413.1 | 5371.5 | 5664.3 | 6291.5 | 6470.4 | 7356.0 | 8120.5 |
| 27.5° | 6609.6 | 6622.2 | 6427.0 | 6123.4 | 5720.3 | 5452.8 | 5637.2 | 6253.5 | 6439.7 | 7319.9 | 8062.7 |
| 30° | 7383.1 | 7442.8 | 7180.7 | 6797.5 | 6210.1 | 5693.2 | 5691.4 | 6233.6 | 6405.3 | 7258.4 | 7948.8 |
| 32.5° | 8174.8 | 8200.1 | 8019.3 | 7630.7 | 6869.8 | 6116.2 | 5843.2 | 6248.1 | 6396.3 | 7184.3 | 7804.2 |
| 35° | 8977.2 | 9009.8 | 8892.3 | 8579.6 | 7771.7 | 6736.1 | 6139.6 | 6333.0 | 6452.3 | 7159.0 | 7703.0 |
| 37.5° | 10016.5 | 10059.8 | 9897.2 | 9535.7 | 8868.8 | 7576.5 | 6633.1 | 6546.3 | 6624.0 | 7231.3 | 7672.3 |
| 40° | 11659.4 | 11639.5 | 11164.1 | 10625.6 | 10068.9 | 8651.9 | 7337.9 | 6907.8 | 6953.0 | 7464.5 | 7766.3 |
| 42.5° | 13571.6 | 13522.8 | 12704.0 | 11858.2 | 11388.3 | 9953.2 | 8270.5 | 7534.9 | 7525.9 | 7923.5 | 8097.0 |
| 45° | 15097.0 | 15057.2 | 14319.8 | 13277.0 | 12901.0 | 11435.3 | 9476.1 | 8469.4 | 8402.5 | 8651.9 | 8707.9 |
| 47.5° | 15923.0 | 15924.8 | 15500.0 | 14648.8 | 14639.7 | 13318.5 | 11025.0 | 9821.3 | 9705.6 | 9823.1 | 9763.4 |
| 50° | 15633.8 | 15671.7 | 15626.6 | 15355.4 | 16226.6 | 15787.4 | 13047.4 | 11706.4 | 11473.2 | 11588.9 | 11359.3 |
| 52.5° | 14234.9 | 14283.7 | 14551.2 | 14966.9 | 16893.5 | 18771.4 | 16018.8 | 14048.7 | 13777.6 | 13736.0 | 13481.2 |
| 55° | 11755.2 | 11814.8 | 12360.6 | 13490.2 | 16338.7 | 20775.8 | 20707.1 | 17034.5 | 16602.5 | 16210.3 | 16101.9 |
| 57.5° | 8102.5 | 8201.9 | 9080.2 | 10757.5 | 14543.9 | 21381.2 | 26290.1 | 21290.9 | 20412.5 | 19042.5 | 19067.8 |
| 60° | 4567.2 | 4682.9 | 5718.5 | 7242.1 | 10922.0 | 20723.3 | 30537.4 | 27737.8 | 25883.4 | 22359.0 | 22547.0 |
| 62.5° | 2904.4 | 3029.2 | 3815.4 | 5031.7 | 6553.5 | 17180.9 | 32277.9 | 36700.5 | 34345.5 | 26447.3 | 26631.7 |
| 65° | 2351.4 | 2405.6 | 2776.1 | 4153.3 | 4758.8 | 10350.8 | 30956.7 | 44083.7 | 43205.3 | 31636.3 | 30776.0 |
| 67.5° | 2295.4 | 2313.4 | 2505.0 | 3486.4 | 4563.6 | 5817.9 | 24692.3 | 45464.5 | 46438.7 | 36481.8 | 32502.0 |
| 70° | 2268.3 | 2331.5 | 2823.1 | 3327.4 | 4370.2 | 4907.0 | 14838.5 | 41679.8 | 43217.9 | 37748.8 | 30204.8 |
| 72.5° | 1100.7 | 1097.1 | 1420.6 | 3009.3 | 4923.3 | 5089.6 | 7623.5 | 33723.8 | 35267.3 | 32704.4 | 24820.7 |
| 75° | 887.4 | 811.5 | 775.4 | 1102.5 | 4733.5 | 5255.8 | 4858.2 | 23204.9 | 24321.8 | 21927.1 | 15257.8 |
| 77.5° | 842.2 | 751.9 | 688.6 | 690.4 | 2000.8 | 5573.9 | 4115.4 | 12843.2 | 13168.5 | 9904.4 | 4180.5 |
| 80° | 697.6 | 614.5 | 569.3 | 641.6 | 968.8 | 5308.3 | 4449.8 | 5812.5 | 5333.6 | 2432.7 | 1391.7 |
| 82.5° | 484.4 | 441.0 | 428.3 | 538.6 | 775.4 | 3782.8 | 5174.5 | 3123.1 | 2618.9 | 1218.2 | 858.5 |
| 85° | 309.1 | 263.9 | 292.8 | 392.2 | 603.7 | 1745.9 | 5329.9 | 2434.5 | 1935.7 | 773.6 | 484.4 |
| 87.5° | 142.8 | 115.7 | 144.6 | 216.9 | 394.0 | 601.9 | 5071.5 | 2734.6 | 1993.5 | 408.5 | 305.4 |
| 90° | 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: GAA-AF-10-LED-U-SL2-7030-600

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7905.5 | 7905.5 | 7905.5 | 7905.5 | 7905.5 | 7905.5 | 7905.5 | 7905.5 | 7905.5 | 7905.5 | 7905.5 |
| 2.5° | 7909.1 | 7874.7 | 7847.6 | 7797.0 | 7741.0 | 7686.8 | 7638.0 | 7576.5 | 7558.4 | 7542.2 | 7567.5 |
| 5° | 7934.4 | 7900.0 | 7800.6 | 7645.2 | 7473.5 | 7312.6 | 7151.8 | 7014.4 | 6929.5 | 6882.5 | 6909.6 |
| 7.5° | 7972.3 | 7923.5 | 7717.5 | 7431.9 | 7122.9 | 6840.9 | 6549.9 | 6316.8 | 6145.1 | 6063.7 | 6087.2 |
| 10° | 8006.7 | 7912.7 | 7576.5 | 7148.2 | 6696.3 | 6277.0 | 5817.9 | 5438.4 | 5156.4 | 5008.2 | 5044.4 |
| 12.5° | 8021.1 | 7871.1 | 7379.5 | 6793.9 | 6174.0 | 5559.5 | 4883.5 | 4316.0 | 3911.2 | 3763.0 | 3732.2 |
| 15° | 8035.6 | 7824.1 | 7162.6 | 6390.9 | 5543.2 | 4673.9 | 3726.8 | 3047.2 | 2711.1 | 2637.0 | 2620.7 |
| 17.5° | 8039.2 | 7742.8 | 6916.8 | 5953.5 | 4804.0 | 3620.2 | 2548.4 | 2116.4 | 2118.2 | 2237.5 | 2252.0 |
| 20° | 8001.2 | 7621.7 | 6618.6 | 5409.5 | 3918.4 | 2503.2 | 1749.5 | 1675.4 | 1948.3 | 2246.6 | 2282.7 |
| 22.5° | 7914.5 | 7460.8 | 6280.6 | 4775.1 | 2904.4 | 1648.3 | 1353.7 | 1435.1 | 1787.5 | 2152.6 | 2194.2 |
| 25° | 7804.2 | 7265.6 | 5881.2 | 4039.5 | 1923.0 | 1178.4 | 1135.0 | 1234.4 | 1473.0 | 1717.0 | 1740.5 |
| 27.5° | 7654.2 | 7034.3 | 5433.0 | 3197.2 | 1248.9 | 970.6 | 999.5 | 1066.4 | 1163.9 | 1272.4 | 1283.2 |
| 30° | 7460.8 | 6757.8 | 4954.0 | 2331.5 | 943.4 | 873.0 | 914.5 | 950.7 | 992.2 | 1053.7 | 1059.1 |
| 32.5° | 7238.5 | 6492.1 | 4462.4 | 1610.4 | 836.8 | 822.4 | 854.9 | 873.0 | 905.5 | 943.4 | 947.1 |
| 35° | 7052.4 | 6239.1 | 3952.7 | 1138.6 | 791.6 | 784.4 | 806.1 | 813.3 | 844.0 | 885.6 | 889.2 |
| 37.5° | 6945.7 | 6033.0 | 3426.8 | 918.1 | 760.9 | 750.1 | 762.7 | 762.7 | 806.1 | 867.5 | 876.6 |
| 40° | 6953.0 | 5919.1 | 2900.8 | 829.6 | 735.6 | 721.1 | 722.9 | 722.9 | 779.0 | 845.9 | 851.3 |
| 42.5° | 7150.0 | 5948.1 | 2434.5 | 795.2 | 715.7 | 699.5 | 690.4 | 695.8 | 742.8 | 786.2 | 789.8 |
| 45° | 7612.7 | 6152.3 | 1997.1 | 773.6 | 695.8 | 690.4 | 670.5 | 668.7 | 686.8 | 706.7 | 706.7 |
| 47.5° | 8371.8 | 6555.3 | 1700.7 | 759.1 | 679.6 | 677.8 | 654.3 | 630.8 | 629.0 | 636.2 | 636.2 |
| 50° | 9606.2 | 7249.4 | 1501.9 | 742.8 | 668.7 | 654.3 | 627.2 | 591.0 | 578.4 | 583.8 | 583.8 |
| 52.5° | 11456.9 | 8487.4 | 1426.0 | 721.1 | 645.2 | 621.7 | 591.0 | 554.9 | 544.0 | 545.8 | 545.8 |
| 55° | 13884.2 | 10388.8 | 1415.2 | 695.8 | 619.9 | 582.0 | 556.7 | 529.6 | 516.9 | 520.5 | 520.5 |
| 57.5° | 16850.1 | 13018.5 | 1608.6 | 656.1 | 585.6 | 542.2 | 527.8 | 509.7 | 500.6 | 506.1 | 504.3 |
| 60° | 20455.9 | 16459.8 | 2385.7 | 614.5 | 551.2 | 506.1 | 506.1 | 491.6 | 484.4 | 489.8 | 488.0 |
| 62.5° | 24609.2 | 20412.5 | 3354.5 | 583.8 | 515.1 | 477.1 | 484.4 | 477.1 | 469.9 | 473.5 | 471.7 |
| 65° | 28292.6 | 22988.0 | 3141.2 | 560.3 | 479.0 | 450.0 | 462.7 | 459.1 | 453.7 | 457.3 | 455.5 |
| 67.5° | 28399.3 | 22033.7 | 1764.0 | 535.0 | 444.6 | 422.9 | 441.0 | 439.2 | 435.6 | 439.2 | 437.4 |
| 70° | 25344.8 | 18605.1 | 994.1 | 488.0 | 408.5 | 390.4 | 415.7 | 413.9 | 410.3 | 417.5 | 415.7 |
| 72.5° | 20305.8 | 13501.1 | 726.6 | 430.2 | 372.3 | 356.1 | 385.0 | 383.2 | 383.2 | 394.0 | 388.6 |
| 75° | 11684.7 | 6947.5 | 580.2 | 368.7 | 334.4 | 321.7 | 347.0 | 348.8 | 352.4 | 366.9 | 356.1 |
| 77.5° | 3331.0 | 2165.2 | 473.5 | 312.7 | 287.4 | 282.0 | 307.3 | 310.9 | 312.7 | 328.9 | 314.5 |
| 80° | 1238.1 | 997.7 | 390.4 | 262.1 | 235.0 | 236.8 | 260.3 | 265.7 | 267.5 | 283.8 | 265.7 |
| 82.5° | 789.8 | 657.9 | 316.3 | 202.4 | 184.4 | 182.5 | 211.5 | 218.7 | 218.7 | 220.5 | 209.7 |
| 85° | 460.9 | 394.0 | 238.6 | 146.4 | 130.1 | 124.7 | 157.2 | 169.9 | 164.5 | 160.9 | 153.6 |
| 87.5° | 309.1 | 271.1 | 146.4 | 81.3 | 70.5 | 66.9 | 92.2 | 101.2 | 97.6 | 92.2 | 86.8 |
| 90° | 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)