

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: P300698

Luminaire Tested: **GAA-AF-08-LED-U-RW-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-08-LED-U-RW-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30966.6 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B5 - U0 - G3

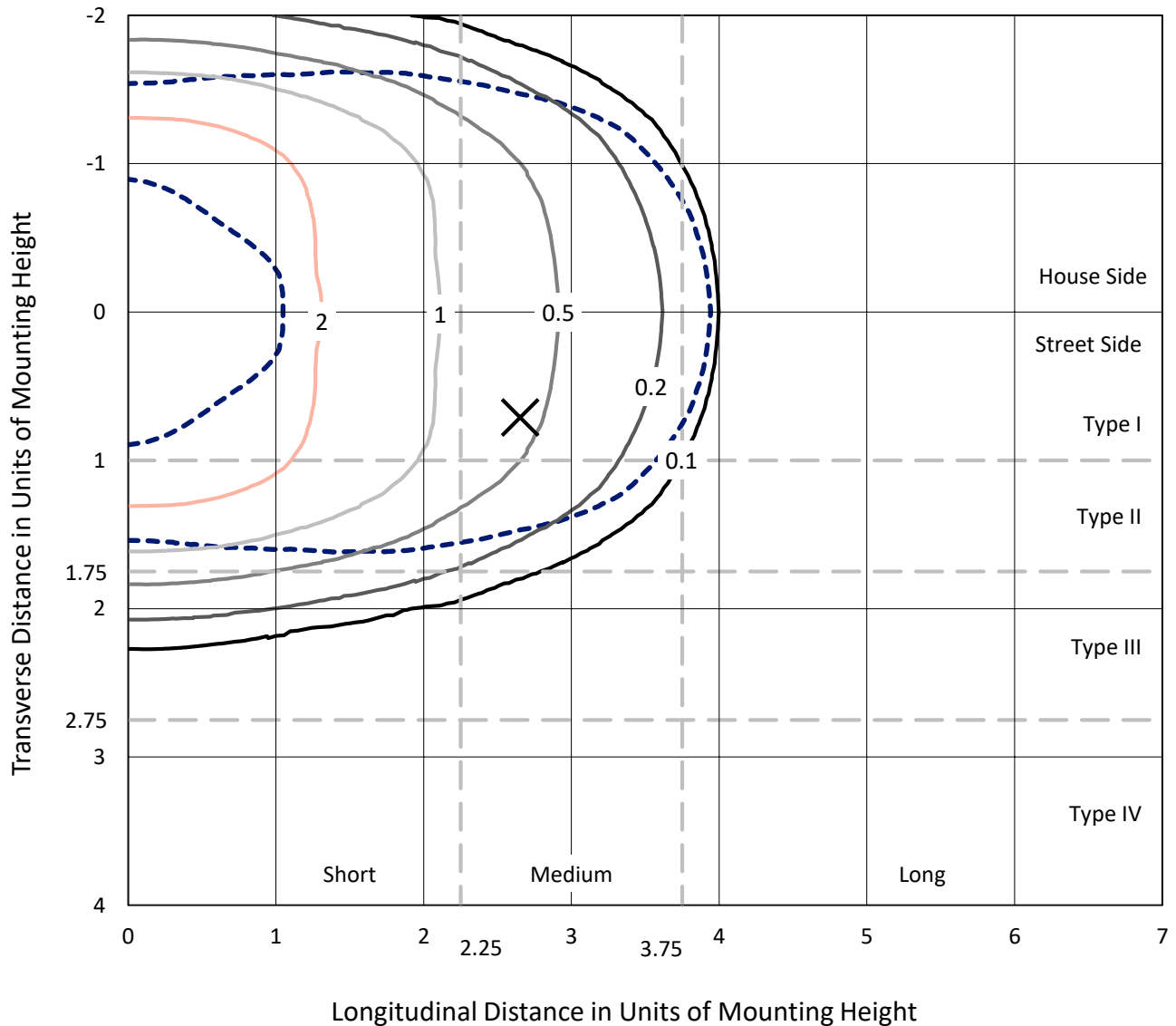
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

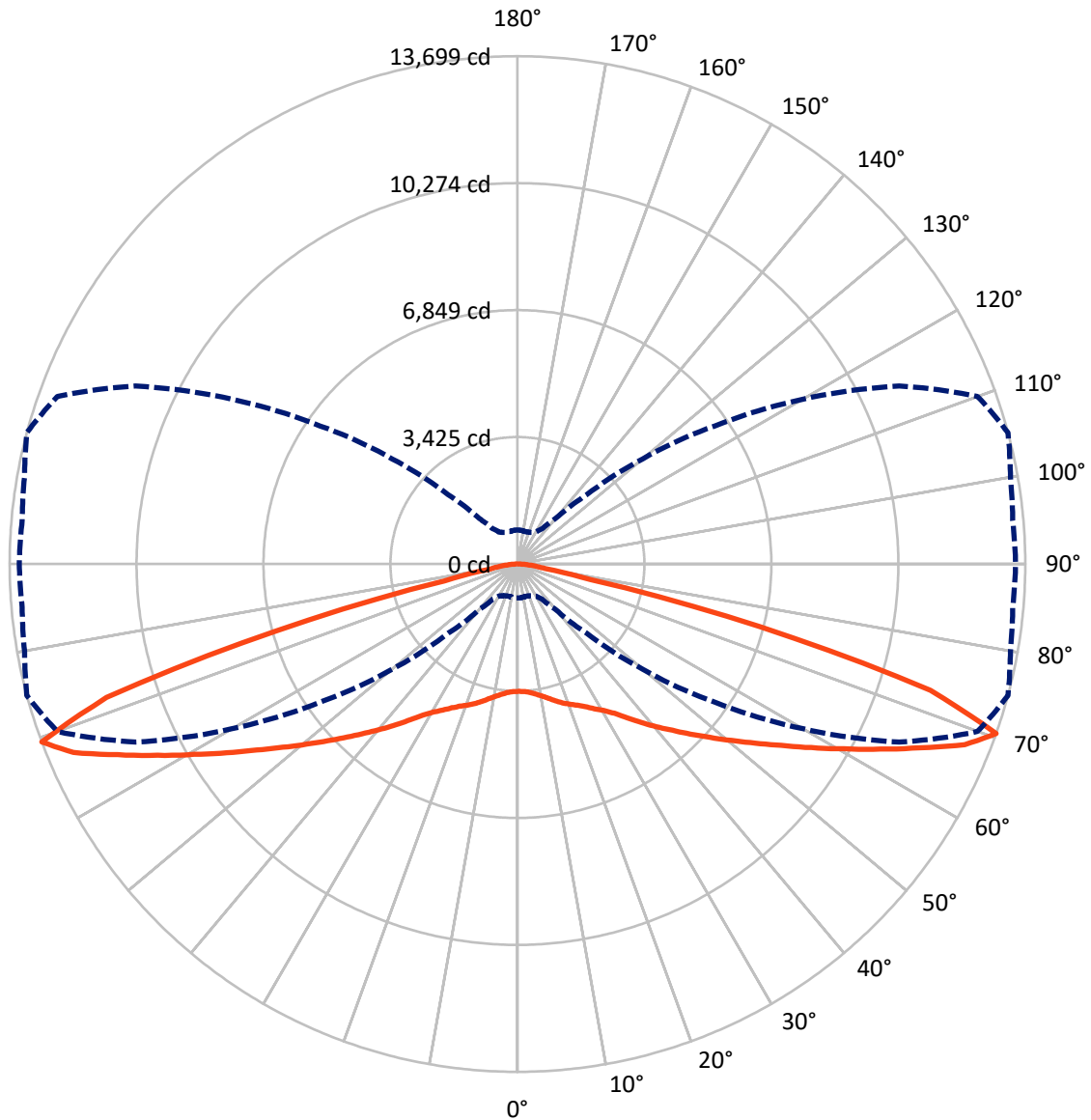
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 15483.3 | 0.0 | 15483.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 15483.3 | 0.0 | 15483.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 30966.6 | 0.0 | 30966.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 329.4 | 1.1 |
| 10°-20° | 1023.6 | 3.3 |
| 20°-30° | 1926.6 | 6.2 |
| 30°-40° | 3411.6 | 11.0 |
| 40°-50° | 5705.3 | 18.4 |
| 50°-60° | 7950.3 | 25.7 |
| 60°-70° | 7372.7 | 23.8 |
| 70°-80° | 2938.2 | 9.5 |
| 80°-90° | 308.8 | 1.0 |
| 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° | 30966.6 | 100.0 |
| 0°-180° | 30966.6 | 100.0 |



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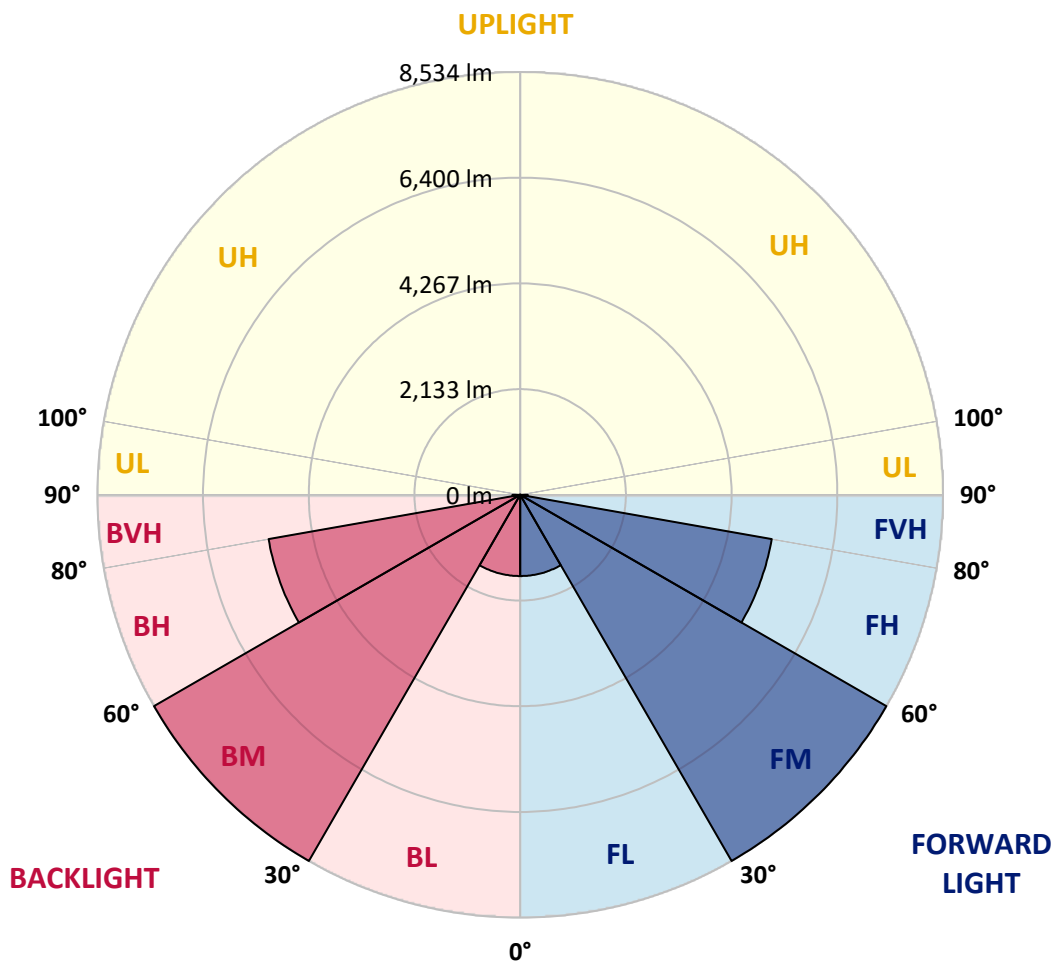
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1639.8 | 5.3 | | | |
| FM | (30°-60°) | 8533.6 | 27.6 | | | |
| FH | (60°-80°) | 5155.4 | 16.6 | | | G3/7500 |
| FVH | (80°-90°) | 154.4 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 1639.8 | 5.3 | B3/2500 | | |
| BM | (30°-60°) | 8533.6 | 27.6 | B5 | | |
| BH | (60°-80°) | 5155.4 | 16.6 | B5 | | G3/7500 |
| BVH | (80°-90°) | 154.4 | 0.5 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 3434.9 | 3434.9 | 3434.9 | 3434.9 | 3434.9 | 3434.9 | 3434.9 | 3434.9 | 3434.9 | 3434.9 | 3434.9 |
| 2.5° | 3429.1 | 3426.1 | 3429.1 | 3427.6 | 3430.5 | 3430.5 | 3433.5 | 3439.3 | 3439.3 | 3443.7 | 3442.2 |
| 5° | 3395.4 | 3393.9 | 3398.3 | 3402.7 | 3407.1 | 3415.9 | 3424.7 | 3437.8 | 3448.1 | 3455.4 | 3462.7 |
| 7.5° | 3329.5 | 3329.5 | 3335.4 | 3345.6 | 3355.9 | 3374.9 | 3395.4 | 3421.7 | 3448.1 | 3470.0 | 3489.1 |
| 10° | 3275.4 | 3278.3 | 3285.6 | 3303.2 | 3320.8 | 3350.0 | 3377.8 | 3415.9 | 3452.5 | 3489.1 | 3518.3 |
| 12.5° | 3243.2 | 3247.6 | 3260.8 | 3287.1 | 3316.4 | 3355.9 | 3398.3 | 3446.6 | 3487.6 | 3531.5 | 3560.8 |
| 15° | 3253.4 | 3256.4 | 3275.4 | 3307.6 | 3345.6 | 3395.4 | 3452.5 | 3509.6 | 3557.9 | 3604.7 | 3644.2 |
| 17.5° | 3310.5 | 3314.9 | 3336.9 | 3373.4 | 3413.0 | 3471.5 | 3533.0 | 3597.4 | 3657.4 | 3710.1 | 3758.4 |
| 20° | 3413.0 | 3417.4 | 3445.2 | 3484.7 | 3531.5 | 3591.5 | 3653.0 | 3720.3 | 3787.6 | 3843.2 | 3897.4 |
| 22.5° | 3557.9 | 3565.2 | 3591.5 | 3631.0 | 3683.7 | 3748.1 | 3821.3 | 3893.0 | 3957.4 | 4008.6 | 4056.9 |
| 25° | 3748.1 | 3764.2 | 3789.1 | 3833.0 | 3888.6 | 3947.2 | 4026.2 | 4099.4 | 4160.8 | 4209.1 | 4244.2 |
| 27.5° | 4017.4 | 4039.4 | 4058.4 | 4100.8 | 4155.0 | 4210.6 | 4289.6 | 4354.0 | 4412.6 | 4459.4 | 4485.7 |
| 30° | 4374.5 | 4396.5 | 4415.5 | 4456.5 | 4506.2 | 4558.9 | 4633.5 | 4690.6 | 4727.2 | 4763.8 | 4762.3 |
| 32.5° | 4807.7 | 4831.1 | 4838.4 | 4882.3 | 4933.6 | 4990.7 | 5058.0 | 5090.2 | 5119.4 | 5123.8 | 5097.5 |
| 35° | 5292.1 | 5303.8 | 5333.1 | 5391.7 | 5450.2 | 5497.0 | 5561.4 | 5577.5 | 5577.5 | 5555.6 | 5497.0 |
| 37.5° | 5823.4 | 5830.7 | 5871.7 | 5937.6 | 5997.6 | 6045.9 | 6089.8 | 6122.0 | 6105.9 | 6059.0 | 5961.0 |
| 40° | 6405.9 | 6419.1 | 6477.6 | 6536.1 | 6603.5 | 6648.8 | 6695.7 | 6701.5 | 6685.4 | 6616.6 | 6483.5 |
| 42.5° | 6962.0 | 6973.7 | 7032.3 | 7124.5 | 7212.3 | 7275.2 | 7319.1 | 7327.9 | 7276.7 | 7213.8 | 7048.4 |
| 45° | 7440.6 | 7471.3 | 7547.4 | 7655.7 | 7783.1 | 7872.3 | 7932.4 | 7957.2 | 7911.9 | 7829.9 | 7638.2 |
| 47.5° | 7819.7 | 7850.4 | 7958.7 | 8087.5 | 8245.5 | 8390.4 | 8490.0 | 8542.6 | 8530.9 | 8469.5 | 8260.2 |
| 50° | 8097.7 | 8127.0 | 8244.1 | 8402.1 | 8586.6 | 8766.6 | 8936.3 | 9062.2 | 9106.1 | 9078.3 | 8886.6 |
| 52.5° | 8129.9 | 8178.2 | 8315.8 | 8528.0 | 8768.0 | 9013.9 | 9255.4 | 9469.1 | 9614.0 | 9635.9 | 9493.9 |
| 55° | 7680.6 | 7728.9 | 7919.2 | 8233.8 | 8590.9 | 8992.0 | 9378.3 | 9738.4 | 10023.7 | 10170.1 | 10095.5 |
| 57.5° | 6621.0 | 6707.4 | 6907.9 | 7276.7 | 7802.1 | 8402.1 | 9018.3 | 9657.9 | 10238.9 | 10626.7 | 10701.4 |
| 60° | 5074.1 | 5176.5 | 5378.5 | 5770.7 | 6356.1 | 7071.8 | 7894.3 | 8839.7 | 9865.7 | 10737.9 | 11259.0 |
| 62.5° | 3254.9 | 3351.5 | 3563.7 | 3904.7 | 4381.8 | 5157.5 | 6040.0 | 7162.5 | 8541.2 | 9918.4 | 11159.4 |
| 65° | 1672.8 | 1725.5 | 1836.7 | 2043.1 | 2414.8 | 2994.4 | 3786.2 | 4905.8 | 6482.0 | 8181.2 | 9975.4 |
| 67.5° | 1059.6 | 1069.8 | 1094.7 | 1124.0 | 1219.1 | 1419.6 | 1788.4 | 2486.5 | 3783.2 | 5555.6 | 7655.7 |
| 70° | 916.2 | 916.2 | 904.5 | 900.1 | 911.8 | 939.6 | 996.7 | 1159.1 | 1596.7 | 2637.3 | 4415.5 |
| 72.5° | 838.6 | 829.8 | 809.3 | 793.2 | 790.3 | 790.3 | 802.0 | 826.9 | 897.1 | 1074.2 | 1728.4 |
| 75° | 772.7 | 747.9 | 720.1 | 701.0 | 693.7 | 686.4 | 684.9 | 689.3 | 704.0 | 731.8 | 825.4 |
| 77.5° | 692.3 | 660.1 | 627.9 | 608.8 | 600.0 | 589.8 | 581.0 | 570.8 | 563.5 | 572.2 | 613.2 |
| 80° | 595.7 | 559.1 | 534.2 | 522.5 | 513.7 | 499.1 | 480.0 | 462.5 | 446.4 | 443.5 | 468.3 |
| 82.5° | 480.0 | 437.6 | 439.1 | 443.5 | 427.4 | 406.9 | 386.4 | 367.3 | 339.5 | 324.9 | 339.5 |
| 85° | 387.8 | 365.9 | 355.6 | 383.4 | 360.0 | 329.3 | 297.1 | 263.4 | 219.5 | 184.4 | 200.5 |
| 87.5° | 150.7 | 150.7 | 225.4 | 346.9 | 311.7 | 254.7 | 218.1 | 185.9 | 115.6 | 89.3 | 90.7 |
| 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-08-LED-U-RW-7030-600

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3434.9 | 3434.9 | 3434.9 | 3434.9 | 3434.9 | 3434.9 | 3434.9 | 3434.9 |
| 2.5° | 3440.8 | 3443.7 | 3442.2 | 3440.8 | 3440.8 | 3439.3 | 3440.8 | 3440.8 |
| 5° | 3467.1 | 3474.4 | 3474.4 | 3477.4 | 3477.4 | 3478.8 | 3480.3 | 3478.8 |
| 7.5° | 3506.6 | 3519.8 | 3528.6 | 3538.8 | 3540.3 | 3541.8 | 3544.7 | 3541.8 |
| 10° | 3546.1 | 3572.5 | 3591.5 | 3610.5 | 3619.3 | 3622.2 | 3625.2 | 3625.2 |
| 12.5° | 3595.9 | 3632.5 | 3666.2 | 3699.8 | 3715.9 | 3724.7 | 3724.7 | 3730.5 |
| 15° | 3677.9 | 3714.4 | 3754.0 | 3799.3 | 3827.1 | 3841.8 | 3846.2 | 3846.2 |
| 17.5° | 3793.5 | 3825.7 | 3859.3 | 3903.2 | 3938.4 | 3957.4 | 3961.8 | 3960.3 |
| 20° | 3928.1 | 3958.9 | 3977.9 | 4005.7 | 4036.4 | 4058.4 | 4064.2 | 4064.2 |
| 22.5° | 4081.8 | 4099.4 | 4102.3 | 4111.1 | 4135.9 | 4165.2 | 4178.4 | 4181.3 |
| 25° | 4251.6 | 4256.0 | 4244.2 | 4244.2 | 4260.3 | 4288.2 | 4301.3 | 4302.8 |
| 27.5° | 4471.1 | 4449.1 | 4419.9 | 4409.6 | 4419.9 | 4452.1 | 4468.2 | 4474.0 |
| 30° | 4744.8 | 4692.1 | 4624.8 | 4588.2 | 4582.3 | 4624.8 | 4654.0 | 4658.4 |
| 32.5° | 5058.0 | 4981.9 | 4892.6 | 4818.0 | 4798.9 | 4825.3 | 4860.4 | 4858.9 |
| 35° | 5429.7 | 5339.0 | 5230.7 | 5135.5 | 5091.6 | 5118.0 | 5167.7 | 5173.6 |
| 37.5° | 5858.5 | 5740.0 | 5615.6 | 5495.6 | 5426.8 | 5434.1 | 5486.8 | 5504.4 |
| 40° | 6337.1 | 6183.4 | 6026.8 | 5865.8 | 5767.8 | 5748.8 | 5813.2 | 5823.4 |
| 42.5° | 6849.3 | 6651.8 | 6454.2 | 6255.1 | 6129.3 | 6100.0 | 6174.6 | 6170.3 |
| 45° | 7395.2 | 7143.5 | 6912.3 | 6692.7 | 6543.5 | 6499.6 | 6561.0 | 6561.0 |
| 47.5° | 7982.1 | 7671.8 | 7396.7 | 7147.9 | 6985.4 | 6922.5 | 6981.1 | 6985.4 |
| 50° | 8604.1 | 8274.8 | 7951.4 | 7674.8 | 7480.1 | 7399.6 | 7475.7 | 7487.4 |
| 52.5° | 9223.2 | 8902.7 | 8576.3 | 8260.2 | 8024.6 | 7926.5 | 8014.3 | 8052.4 |
| 55° | 9851.0 | 9536.4 | 9224.7 | 8915.8 | 8636.3 | 8520.7 | 8614.4 | 8662.7 |
| 57.5° | 10514.0 | 10222.8 | 9925.7 | 9614.0 | 9344.7 | 9164.6 | 9264.2 | 9328.6 |
| 60° | 11291.2 | 11042.4 | 10733.6 | 10389.6 | 10117.4 | 9934.5 | 9991.5 | 10048.6 |
| 62.5° | 11905.8 | 12002.4 | 11740.5 | 11342.4 | 10992.6 | 10758.4 | 10814.1 | 10874.1 |
| 65° | 11608.8 | 12599.6 | 12832.3 | 12429.8 | 11945.4 | 11580.9 | 11557.5 | 11588.3 |
| 67.5° | 9703.2 | 11627.8 | 13031.3 | 13414.8 | 13009.4 | 12503.0 | 12409.3 | 12454.7 |
| 70° | 6490.8 | 8888.0 | 11364.3 | 13208.4 | 13698.7 | 13502.6 | 13410.4 | 13438.2 |
| 72.5° | 3117.3 | 5176.5 | 7709.9 | 10161.3 | 11654.1 | 12339.1 | 12558.6 | 12665.4 |
| 75° | 1140.1 | 2054.8 | 3715.9 | 5599.5 | 6760.1 | 7825.5 | 8520.7 | 8804.6 |
| 77.5° | 687.9 | 829.8 | 1186.9 | 1787.0 | 2024.1 | 2265.6 | 2171.9 | 2218.7 |
| 80° | 509.3 | 575.2 | 651.3 | 731.8 | 758.1 | 758.1 | 728.8 | 705.4 |
| 82.5° | 357.1 | 399.5 | 436.1 | 480.0 | 491.7 | 469.8 | 386.4 | 307.3 |
| 85° | 229.8 | 248.8 | 264.9 | 292.7 | 285.4 | 272.2 | 182.9 | 162.5 |
| 87.5° | 105.4 | 120.0 | 125.9 | 139.0 | 133.2 | 127.3 | 90.7 | 76.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)