

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: P299501

Luminaire Tested: **GAA-AF-08-LED-U-SLR-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194679)
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-SLR-7050-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Right OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27527 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

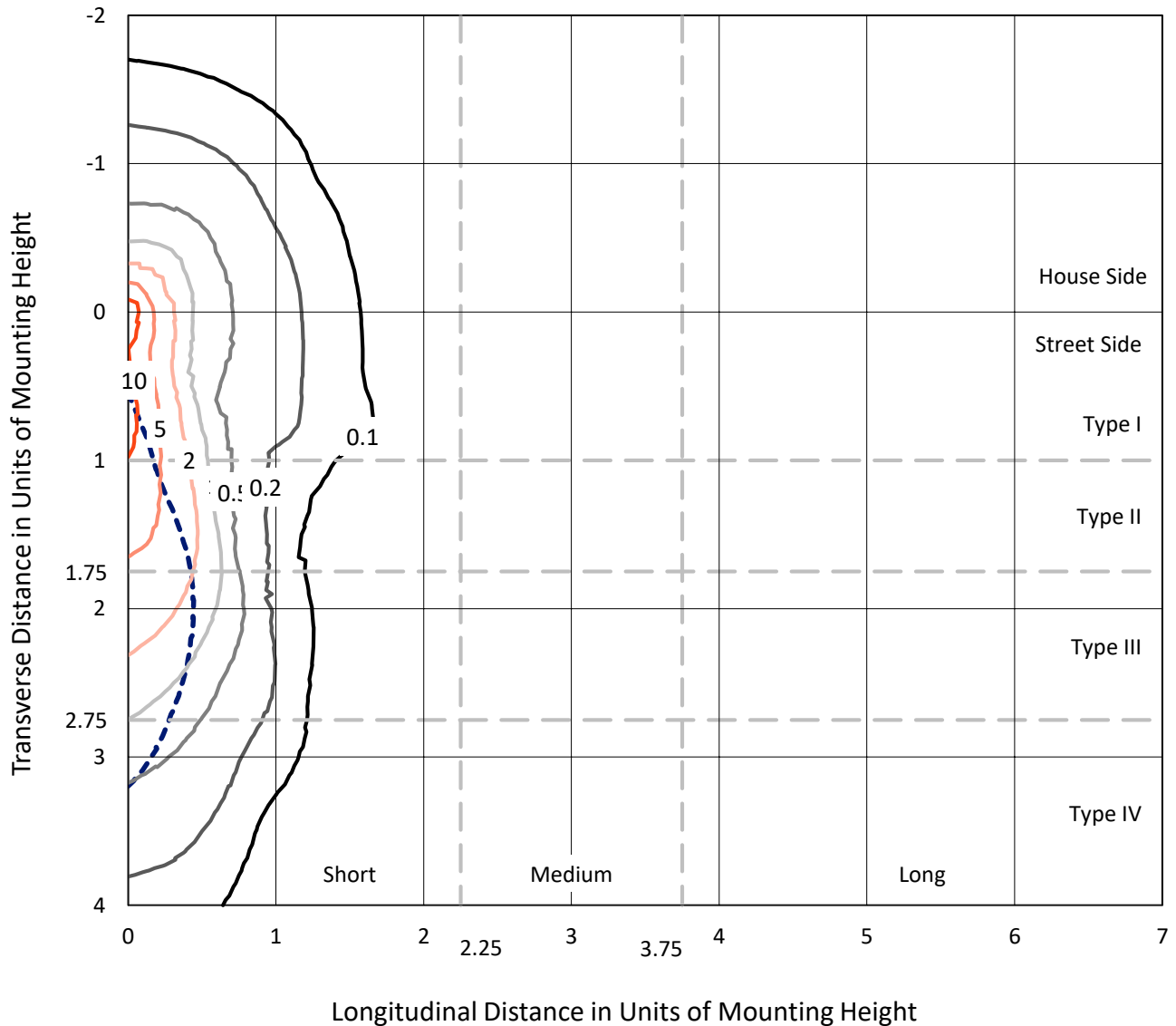
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P299501
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Iso-Footcandle Lines of Horizontal Illumination

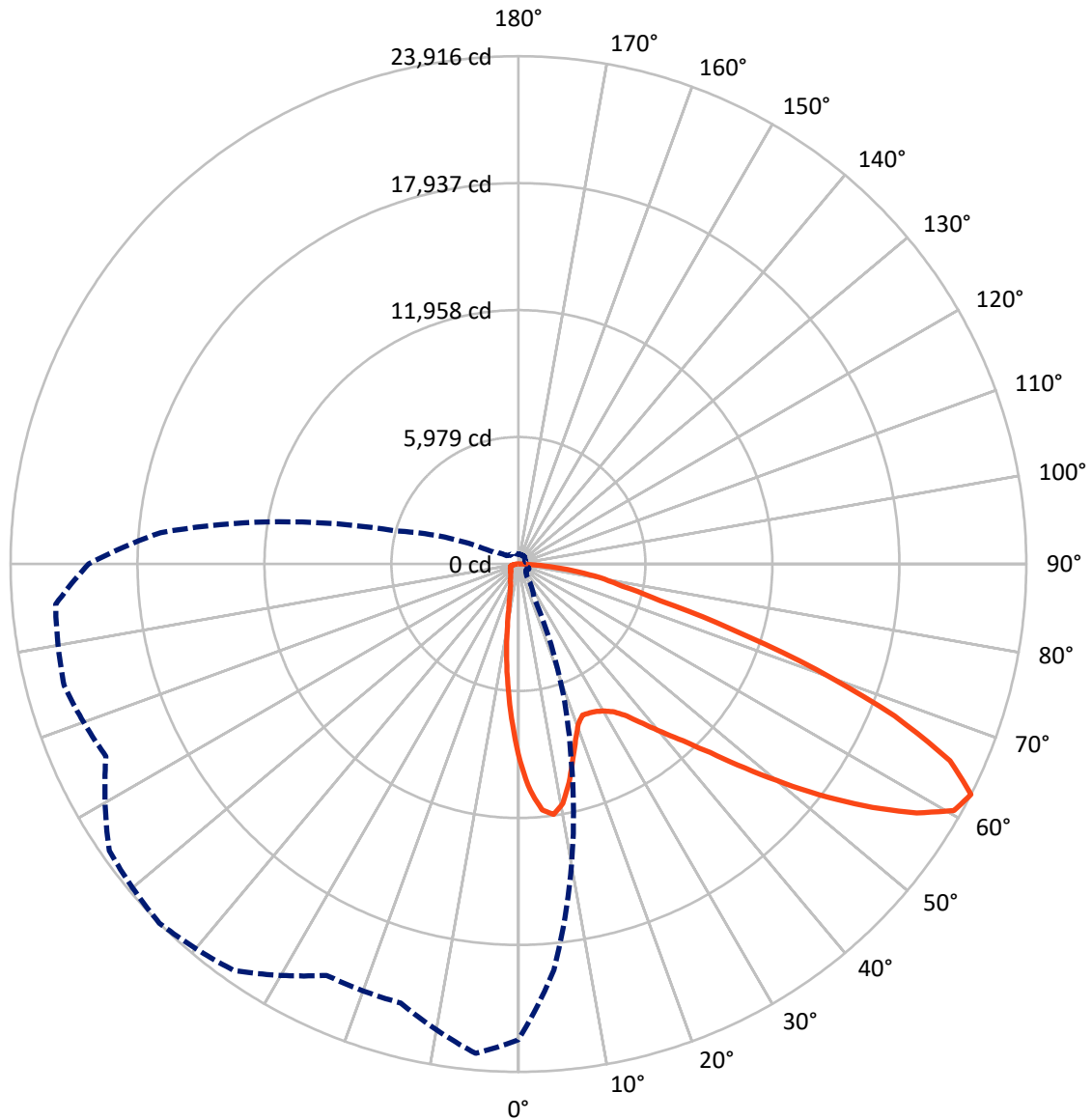
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4555.4 | 0.0 | 4555.4 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 22971.7 | 0.0 | 22971.7 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 27527.0 | 0.0 | 27527.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 677.0 | 2.5 |
| 10°-20° | 1241.4 | 4.5 |
| 20°-30° | 1810.0 | 6.6 |
| 30°-40° | 2787.7 | 10.1 |
| 40°-50° | 4102.8 | 14.9 |
| 50°-60° | 6017.9 | 21.9 |
| 60°-70° | 6727.1 | 24.4 |
| 70°-80° | 3293.5 | 12.0 |
| 80°-90° | 869.6 | 3.2 |
| 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° | 27527.0 | 100.0 |
| 0°-180° | 27527.0 | 100.0 |

Coefficient of Utilization



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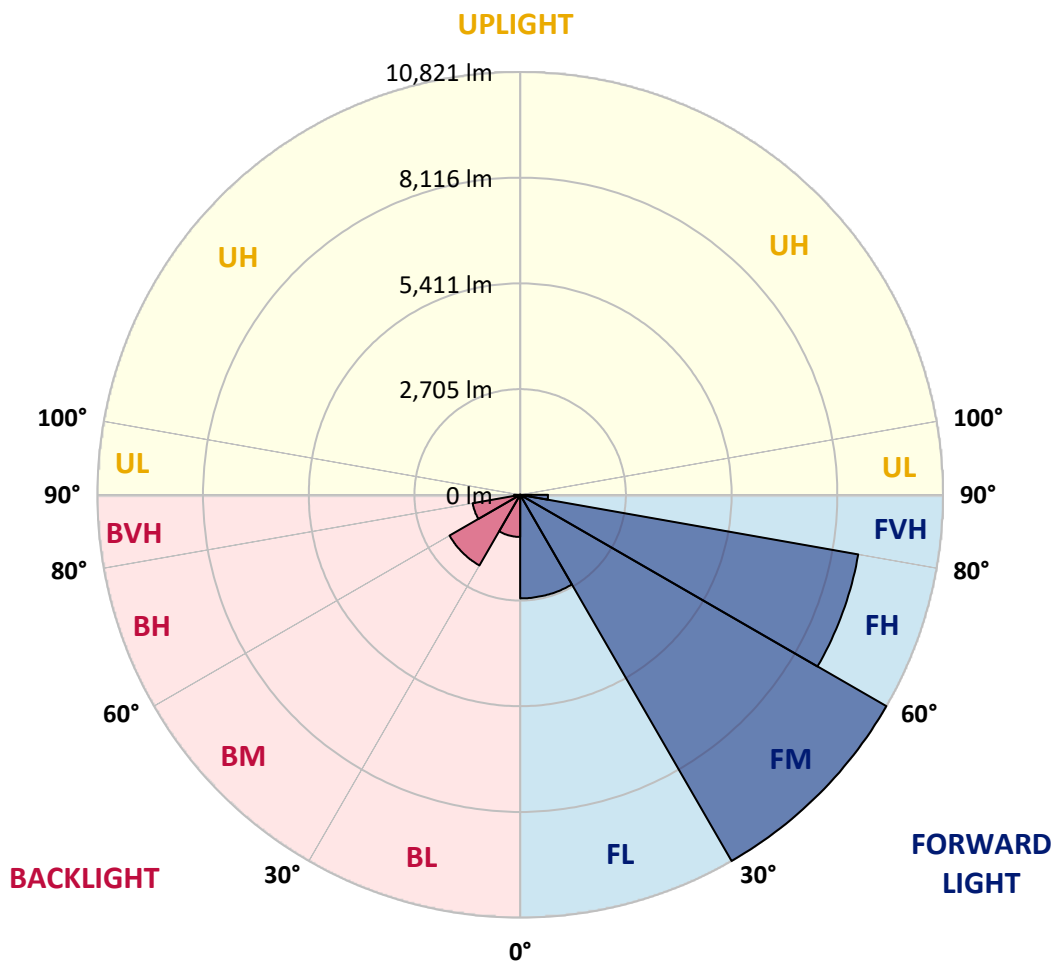
CATALOG NUMBER: GAA-AF-08-LED-U-SLR-7050-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2650.8 | 9.6 | | | |
| FM | (30°-60°) | 10821.1 | 39.3 | | | |
| FH | (60°-80°) | 8785.7 | 31.9 | | | G4/12000 |
| FVH | (80°-90°) | 714.1 | 2.6 | | | G4/750 |
| BL | (0°-30°) | 1077.7 | 3.9 | B3/2500 | | |
| BM | (30°-60°) | 2087.2 | 7.6 | B2/2500 | | |
| BH | (60°-80°) | 1235.0 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 155.4 | 0.6 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Short





REPORT NUMBER: P299501
 CATALOG NUMBER: GAA-AF-08-LED-U-SLR-7050-600

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9300.3 | 9300.3 | 9300.3 | 9300.3 | 9300.3 | 9300.3 | 9300.3 | 9300.3 | 9300.3 | 9300.3 | 9300.3 |
| 2.5° | 9663.1 | 9466.6 | 9139.5 | 8799.1 | 8592.1 | 8349.7 | 8160.5 | 7994.2 | 7661.2 | 7596.2 | 7655.2 |
| 5° | 9086.8 | 8691.9 | 8075.8 | 7455.5 | 7042.3 | 6598.9 | 6253.9 | 5977.2 | 5554.9 | 5480.7 | 5570.0 |
| 7.5° | 8162.4 | 7690.1 | 6876.0 | 6084.4 | 5500.4 | 4946.5 | 4574.5 | 4277.7 | 3947.9 | 3805.9 | 3814.6 |
| 10° | 7364.8 | 6832.0 | 5869.6 | 5008.8 | 4530.6 | 4156.8 | 3843.4 | 3539.3 | 3204.8 | 2985.4 | 2924.9 |
| 12.5° | 6918.2 | 6305.7 | 5196.2 | 4427.5 | 3984.1 | 3591.0 | 3253.4 | 2928.2 | 2570.8 | 2346.8 | 2283.6 |
| 15° | 6841.2 | 6175.1 | 4943.8 | 4055.5 | 3499.9 | 3002.4 | 2604.3 | 2241.0 | 1873.2 | 1691.7 | 1653.7 |
| 17.5° | 7175.6 | 6408.3 | 4861.8 | 3723.9 | 3044.5 | 2430.2 | 1941.4 | 1536.0 | 1236.4 | 1145.7 | 1137.9 |
| 20° | 7817.0 | 6856.3 | 4851.2 | 3412.4 | 2595.1 | 1875.0 | 1352.8 | 1057.7 | 926.3 | 900.2 | 902.0 |
| 22.5° | 8717.6 | 7550.8 | 4981.3 | 3177.8 | 2181.9 | 1398.1 | 1017.0 | 885.0 | 833.7 | 809.5 | 809.5 |
| 25° | 9882.5 | 8507.3 | 5280.9 | 3006.9 | 1823.2 | 1116.8 | 897.4 | 818.6 | 770.1 | 753.6 | 756.8 |
| 27.5° | 11011.7 | 9437.7 | 5629.1 | 2872.3 | 1588.7 | 1013.8 | 850.2 | 779.2 | 737.1 | 720.1 | 727.9 |
| 30° | 11892.2 | 10264.1 | 5919.5 | 2689.0 | 1469.1 | 984.9 | 867.2 | 794.3 | 733.9 | 708.2 | 709.6 |
| 32.5° | 12621.5 | 10987.4 | 6163.2 | 2557.1 | 1363.3 | 844.3 | 747.6 | 715.5 | 708.2 | 678.0 | 662.9 |
| 35° | 13553.7 | 11775.8 | 6326.8 | 2560.3 | 1313.4 | 753.6 | 665.6 | 609.7 | 569.0 | 534.1 | 534.1 |
| 37.5° | 14646.3 | 12680.6 | 6500.8 | 2595.1 | 1295.5 | 700.4 | 637.2 | 580.9 | 543.3 | 509.9 | 503.9 |
| 40° | 15726.4 | 13567.4 | 6659.8 | 2628.6 | 1284.5 | 668.8 | 614.3 | 563.0 | 528.2 | 494.7 | 485.6 |
| 42.5° | 16645.4 | 14296.7 | 6801.8 | 2645.0 | 1248.3 | 665.6 | 597.8 | 550.6 | 517.6 | 481.0 | 472.3 |
| 45° | 17324.7 | 14907.8 | 6954.8 | 2670.7 | 1212.1 | 678.0 | 597.8 | 549.3 | 508.5 | 473.7 | 464.5 |
| 47.5° | 17931.3 | 15625.2 | 7210.4 | 2670.7 | 1168.1 | 655.1 | 617.5 | 550.6 | 507.1 | 470.5 | 463.1 |
| 50° | 18743.9 | 16608.7 | 7694.6 | 2608.9 | 1106.3 | 630.8 | 650.5 | 544.7 | 493.4 | 464.5 | 455.3 |
| 52.5° | 19863.5 | 17869.4 | 8463.3 | 2501.2 | 1011.0 | 584.1 | 645.9 | 541.9 | 479.6 | 449.4 | 438.9 |
| 55° | 21187.9 | 19219.0 | 9301.6 | 2375.7 | 868.6 | 550.6 | 623.5 | 534.1 | 464.5 | 431.1 | 420.5 |
| 57.5° | 22221.3 | 20148.0 | 9891.7 | 2181.9 | 744.4 | 532.8 | 552.5 | 526.8 | 446.2 | 411.4 | 402.7 |
| 60° | 22632.7 | 20111.8 | 10053.8 | 1923.1 | 683.9 | 517.6 | 482.8 | 590.0 | 431.1 | 396.3 | 385.7 |
| 62.5° | 22410.5 | 19182.8 | 9599.9 | 1741.7 | 670.2 | 498.0 | 452.6 | 546.1 | 419.2 | 385.7 | 370.6 |
| 65° | 21383.0 | 17536.4 | 8396.9 | 1693.1 | 709.6 | 478.3 | 432.9 | 428.3 | 402.7 | 370.6 | 355.5 |
| 67.5° | 19144.8 | 15075.9 | 6723.0 | 1697.7 | 759.5 | 458.6 | 413.2 | 392.1 | 379.8 | 354.1 | 340.4 |
| 70° | 15593.6 | 11919.7 | 5011.6 | 1710.1 | 785.2 | 435.6 | 392.1 | 369.2 | 355.5 | 329.8 | 320.7 |
| 72.5° | 11465.7 | 9186.7 | 3640.9 | 1631.3 | 789.8 | 410.0 | 363.3 | 343.6 | 329.8 | 302.8 | 295.0 |
| 75° | 7844.4 | 7027.2 | 2525.5 | 1351.4 | 688.5 | 373.8 | 331.2 | 313.3 | 304.2 | 270.7 | 266.2 |
| 77.5° | 5730.3 | 5275.0 | 1616.2 | 1003.2 | 530.9 | 328.5 | 292.3 | 278.5 | 272.6 | 235.9 | 230.0 |
| 80° | 4598.8 | 4173.3 | 1011.0 | 687.1 | 388.9 | 275.3 | 245.1 | 237.8 | 231.3 | 195.1 | 190.6 |
| 82.5° | 3189.7 | 2794.8 | 649.1 | 446.2 | 292.3 | 213.5 | 193.8 | 190.6 | 181.4 | 148.4 | 143.8 |
| 85° | 1682.6 | 1517.7 | 411.4 | 304.2 | 211.6 | 146.6 | 134.7 | 134.7 | 130.1 | 98.5 | 95.3 |
| 87.5° | 214.8 | 349.5 | 208.9 | 159.0 | 116.4 | 65.0 | 65.0 | 63.7 | 68.3 | 55.9 | 48.6 |
| 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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CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9300.3 | 9300.3 | 9300.3 | 9300.3 | 9300.3 | 9300.3 | 9300.3 | 9300.3 | 9300.3 | 9300.3 | 9300.3 |
| 2.5° | 7516.0 | 7588.8 | 7519.2 | 7523.8 | 7600.7 | 7830.7 | 7935.1 | 8021.3 | 8113.8 | 8174.3 | 8201.3 |
| 5° | 5447.7 | 5617.2 | 5674.4 | 5795.4 | 5974.0 | 6267.7 | 6384.0 | 6468.8 | 6525.1 | 6558.1 | 6571.8 |
| 7.5° | 3725.7 | 3828.3 | 3943.3 | 4138.4 | 4527.4 | 4700.1 | 4777.0 | 4757.3 | 4694.1 | 4671.2 | 4648.8 |
| 10° | 2808.6 | 2767.8 | 2746.3 | 2853.9 | 3168.7 | 3342.7 | 3397.2 | 3344.1 | 3309.3 | 3317.1 | 3354.6 |
| 12.5° | 2176.0 | 2105.0 | 2018.8 | 2006.5 | 2214.0 | 2369.7 | 2404.5 | 2407.3 | 2471.0 | 2526.9 | 2610.2 |
| 15° | 1585.9 | 1578.1 | 1536.0 | 1510.3 | 1628.1 | 1755.4 | 1770.5 | 1797.6 | 1855.3 | 1896.1 | 1968.4 |
| 17.5° | 1118.2 | 1159.0 | 1192.4 | 1208.9 | 1298.2 | 1388.9 | 1372.5 | 1358.7 | 1348.2 | 1348.2 | 1383.0 |
| 20° | 902.0 | 929.0 | 971.6 | 1019.7 | 1110.9 | 1174.1 | 1133.3 | 1078.8 | 1039.4 | 1027.5 | 1032.1 |
| 22.5° | 812.7 | 833.7 | 858.0 | 900.2 | 982.2 | 1026.1 | 982.2 | 942.8 | 903.4 | 889.6 | 885.0 |
| 25° | 767.3 | 794.3 | 817.2 | 848.9 | 909.3 | 939.6 | 897.4 | 868.6 | 844.3 | 827.8 | 815.4 |
| 27.5° | 741.7 | 765.5 | 771.9 | 787.0 | 838.3 | 865.3 | 844.3 | 832.4 | 817.2 | 802.1 | 787.0 |
| 30° | 714.2 | 709.6 | 699.1 | 700.4 | 741.7 | 768.7 | 767.3 | 770.1 | 768.7 | 764.1 | 761.4 |
| 32.5° | 652.3 | 643.2 | 634.0 | 643.2 | 680.7 | 705.0 | 706.8 | 712.8 | 712.8 | 711.4 | 723.3 |
| 35° | 543.3 | 559.8 | 570.3 | 597.8 | 643.2 | 664.2 | 655.1 | 640.0 | 612.9 | 596.0 | 594.6 |
| 37.5° | 502.5 | 505.3 | 523.6 | 561.2 | 611.6 | 630.8 | 617.5 | 582.7 | 564.4 | 561.2 | 565.7 |
| 40° | 482.8 | 485.6 | 496.1 | 530.9 | 580.9 | 600.6 | 588.7 | 563.0 | 546.1 | 544.7 | 552.5 |
| 42.5° | 469.1 | 472.3 | 478.3 | 502.5 | 543.3 | 567.6 | 569.0 | 550.6 | 530.9 | 532.8 | 540.1 |
| 45° | 461.3 | 463.1 | 461.3 | 473.7 | 511.2 | 540.1 | 552.5 | 540.1 | 523.6 | 526.8 | 535.5 |
| 47.5° | 459.9 | 455.3 | 449.4 | 452.6 | 492.0 | 520.4 | 535.5 | 530.9 | 523.6 | 526.8 | 534.1 |
| 50° | 454.0 | 443.4 | 435.6 | 434.3 | 473.7 | 503.9 | 517.6 | 517.6 | 520.4 | 526.8 | 534.1 |
| 52.5° | 435.6 | 423.7 | 423.7 | 419.2 | 461.3 | 490.2 | 499.3 | 500.7 | 505.3 | 515.8 | 526.8 |
| 55° | 413.2 | 408.6 | 413.2 | 405.4 | 452.6 | 479.6 | 484.2 | 487.4 | 490.2 | 499.3 | 514.4 |
| 57.5° | 393.5 | 387.5 | 398.1 | 394.9 | 444.8 | 469.1 | 469.1 | 475.0 | 475.0 | 487.4 | 499.3 |
| 60° | 383.0 | 370.6 | 375.2 | 378.4 | 434.3 | 459.9 | 457.2 | 463.1 | 465.9 | 476.9 | 485.6 |
| 62.5° | 369.2 | 358.7 | 358.7 | 366.0 | 422.4 | 446.2 | 444.8 | 449.4 | 461.3 | 464.5 | 473.7 |
| 65° | 352.7 | 348.2 | 343.6 | 352.7 | 410.0 | 431.1 | 432.9 | 438.9 | 449.4 | 452.6 | 459.9 |
| 67.5° | 335.8 | 337.6 | 328.5 | 337.6 | 399.5 | 416.0 | 416.0 | 428.3 | 432.9 | 438.9 | 446.2 |
| 70° | 317.9 | 319.3 | 311.5 | 322.5 | 392.1 | 399.5 | 398.1 | 414.6 | 417.8 | 422.4 | 429.7 |
| 72.5° | 295.0 | 295.0 | 292.3 | 307.4 | 379.8 | 383.0 | 379.8 | 393.5 | 394.9 | 399.5 | 402.7 |
| 75° | 270.7 | 270.7 | 268.0 | 289.1 | 372.4 | 364.6 | 355.5 | 366.0 | 369.2 | 372.4 | 372.4 |
| 77.5° | 239.1 | 242.3 | 242.3 | 268.0 | 346.3 | 357.3 | 326.6 | 333.0 | 337.6 | 339.0 | 334.4 |
| 80° | 199.7 | 207.5 | 210.3 | 243.7 | 290.4 | 329.8 | 292.3 | 296.4 | 298.2 | 298.2 | 292.3 |
| 82.5° | 153.0 | 166.3 | 174.1 | 210.3 | 222.6 | 276.7 | 254.2 | 258.8 | 254.2 | 245.1 | 242.3 |
| 85° | 105.8 | 124.1 | 133.3 | 160.3 | 168.1 | 213.5 | 211.6 | 211.6 | 202.9 | 190.6 | 189.2 |
| 87.5° | 57.7 | 68.3 | 74.2 | 95.3 | 115.0 | 143.8 | 155.8 | 151.2 | 143.8 | 136.1 | 137.9 |
| 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-SLR-7050-600

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 9300.3 | 9300.3 | 9300.3 | 9300.3 | 9300.3 | 9300.3 | 9300.3 | 9300.3 | 9300.3 | 9300.3 | 9300.3 |
| 2.5° | 8343.8 | 8549.5 | 8877.9 | 9128.9 | 9381.8 | 9625.5 | 9888.9 | 10090.0 | 10260.9 | 10327.8 | 10530.3 |
| 5° | 6709.7 | 6966.7 | 7276.9 | 7836.7 | 8233.4 | 8670.4 | 9176.1 | 9844.9 | 10101.9 | 10457.9 | 11040.1 |
| 7.5° | 4744.0 | 4976.8 | 5476.1 | 5928.7 | 6490.3 | 7109.2 | 7791.3 | 8714.4 | 9052.0 | 9622.3 | 10571.0 |
| 10° | 3542.5 | 3813.2 | 4214.0 | 4595.6 | 5090.4 | 5723.0 | 6506.8 | 7538.9 | 7948.9 | 8567.8 | 9660.3 |
| 12.5° | 2853.9 | 3173.2 | 3598.3 | 3957.0 | 4340.0 | 4786.2 | 5547.5 | 6679.0 | 7228.8 | 7770.2 | 8874.7 |
| 15° | 2192.4 | 2526.9 | 2922.2 | 3377.5 | 3799.5 | 4280.9 | 5078.5 | 6316.2 | 6948.4 | 7513.2 | 8455.5 |
| 17.5° | 1517.7 | 1803.5 | 2301.5 | 2776.5 | 3317.1 | 3932.8 | 4948.4 | 6393.2 | 7148.1 | 7799.1 | 8528.4 |
| 20° | 1076.1 | 1239.2 | 1647.8 | 2198.9 | 2872.3 | 3645.1 | 4924.1 | 6798.6 | 7780.8 | 8523.8 | 8994.3 |
| 22.5° | 904.7 | 965.2 | 1203.0 | 1708.2 | 2486.1 | 3430.2 | 5008.8 | 7367.6 | 8634.2 | 9582.9 | 9737.3 |
| 25° | 824.6 | 861.2 | 984.9 | 1340.8 | 2142.5 | 3274.5 | 5294.7 | 8215.0 | 9690.6 | 10642.5 | 10615.0 |
| 27.5° | 780.6 | 818.6 | 900.2 | 1132.0 | 1884.1 | 3177.8 | 5580.5 | 9220.1 | 10898.1 | 11792.3 | 11453.3 |
| 30° | 767.3 | 818.6 | 904.7 | 1066.9 | 1699.5 | 3024.8 | 5815.1 | 10101.9 | 11827.1 | 12568.8 | 11834.9 |
| 32.5° | 756.8 | 764.1 | 803.5 | 919.9 | 1523.6 | 2846.2 | 5974.0 | 10893.5 | 12736.5 | 13307.2 | 12384.2 |
| 35° | 611.6 | 649.1 | 712.8 | 824.6 | 1421.0 | 2739.0 | 5974.0 | 11576.1 | 13632.5 | 14053.0 | 12907.8 |
| 37.5° | 588.7 | 622.1 | 678.0 | 773.3 | 1363.3 | 2685.8 | 5854.5 | 12234.4 | 14547.8 | 14899.1 | 13338.8 |
| 40° | 576.7 | 603.8 | 656.9 | 733.9 | 1339.0 | 2625.3 | 5680.4 | 12815.2 | 15442.0 | 15746.1 | 13741.5 |
| 42.5° | 567.6 | 591.9 | 641.8 | 709.6 | 1307.4 | 2558.9 | 5539.8 | 13281.1 | 16218.4 | 16469.5 | 14125.9 |
| 45° | 563.0 | 588.7 | 643.2 | 722.0 | 1243.7 | 2471.0 | 5493.0 | 13785.0 | 16857.0 | 17073.2 | 14541.8 |
| 47.5° | 563.0 | 593.2 | 650.5 | 747.6 | 1168.1 | 2380.3 | 5639.6 | 14449.7 | 17460.8 | 17566.6 | 15032.0 |
| 50° | 558.4 | 591.9 | 672.0 | 722.0 | 1057.7 | 2265.3 | 5984.6 | 15286.2 | 18114.5 | 18126.4 | 15652.7 |
| 52.5° | 549.3 | 588.7 | 723.3 | 706.8 | 930.4 | 2114.1 | 6450.9 | 16360.9 | 19081.5 | 19153.9 | 16623.9 |
| 55° | 538.7 | 584.1 | 709.6 | 672.0 | 826.4 | 1934.1 | 6832.0 | 17666.5 | 20440.3 | 20641.4 | 18052.7 |
| 57.5° | 525.0 | 578.1 | 687.1 | 623.5 | 758.1 | 1702.3 | 6969.9 | 18623.0 | 21389.0 | 21894.3 | 19662.4 |
| 60° | 513.1 | 573.5 | 620.3 | 594.6 | 715.5 | 1507.1 | 6703.3 | 18433.8 | 21323.9 | 22413.3 | 21089.4 |
| 62.5° | 500.7 | 578.1 | 565.7 | 576.7 | 695.8 | 1381.6 | 6007.5 | 16918.9 | 20245.1 | 21877.8 | 22147.1 |
| 65° | 487.4 | 537.3 | 534.1 | 561.2 | 691.7 | 1331.7 | 4980.0 | 14647.6 | 18159.9 | 20184.6 | 22396.8 |
| 67.5° | 469.1 | 496.1 | 511.2 | 541.9 | 706.8 | 1287.7 | 4018.9 | 12082.7 | 15261.9 | 17646.8 | 21095.3 |
| 70° | 449.4 | 472.3 | 488.8 | 517.6 | 697.7 | 1268.0 | 3342.7 | 9528.4 | 12110.2 | 14463.0 | 18527.7 |
| 72.5° | 423.7 | 443.4 | 458.6 | 485.6 | 688.5 | 1257.5 | 2823.7 | 7673.6 | 9041.4 | 10743.7 | 15064.0 |
| 75° | 393.5 | 411.4 | 422.4 | 449.4 | 659.7 | 1151.7 | 2219.9 | 6493.1 | 6765.6 | 7473.8 | 11998.0 |
| 77.5° | 358.7 | 372.4 | 381.1 | 411.4 | 584.1 | 957.9 | 1605.6 | 5008.8 | 5253.9 | 5426.2 | 9198.6 |
| 80° | 317.9 | 331.2 | 335.8 | 364.6 | 484.2 | 749.0 | 1047.2 | 3699.6 | 3929.5 | 3968.9 | 6007.5 |
| 82.5° | 270.7 | 284.5 | 284.5 | 311.5 | 396.3 | 538.7 | 687.1 | 2534.6 | 2580.0 | 2713.3 | 4246.1 |
| 85° | 218.1 | 228.6 | 228.6 | 242.3 | 307.4 | 402.7 | 472.3 | 1272.6 | 1258.8 | 1437.5 | 3678.5 |
| 87.5° | 155.8 | 163.5 | 170.9 | 174.1 | 219.4 | 266.2 | 284.5 | 387.5 | 255.6 | 293.6 | 2361.9 |
| 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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| 2.5° | 10683.3 | 10769.4 | 10681.4 | 10618.2 | 10344.3 | 10118.9 | 9817.5 | 9663.1 |
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| 7.5° | 11386.9 | 11896.8 | 11908.7 | 11411.2 | 10568.3 | 9620.9 | 8631.4 | 8162.4 |
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| 22.5° | 8616.3 | 7829.3 | 7729.5 | 8142.7 | 8967.2 | 9791.8 | 9587.5 | 8717.6 |
| 25° | 8903.6 | 7847.6 | 7767.0 | 8166.9 | 9203.2 | 10528.9 | 10675.5 | 9882.5 |
| 27.5° | 9356.2 | 7962.6 | 7856.4 | 8266.8 | 9516.5 | 11147.8 | 11747.0 | 11011.7 |
| 30° | 9785.9 | 8162.4 | 8030.4 | 8463.3 | 9802.3 | 11392.9 | 12403.9 | 11892.2 |
| 32.5° | 10308.1 | 8536.2 | 8304.4 | 8824.8 | 10156.5 | 11783.2 | 12989.3 | 12621.5 |
| 35° | 10819.3 | 9068.5 | 8781.2 | 9383.2 | 10551.3 | 12269.2 | 13658.1 | 13553.7 |
| 37.5° | 11380.9 | 9764.8 | 9527.0 | 10105.1 | 11091.9 | 12727.3 | 14511.6 | 14646.3 |
| 40° | 11980.1 | 10687.8 | 10406.1 | 11158.3 | 11930.2 | 13302.7 | 15403.0 | 15726.4 |
| 42.5° | 12583.9 | 11712.1 | 11376.4 | 12138.6 | 12851.4 | 13869.8 | 16165.3 | 16645.4 |
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| 55° | 17560.7 | 19540.1 | 20234.6 | 20131.5 | 17680.2 | 17572.6 | 20873.2 | 21187.9 |
| 57.5° | 19194.7 | 21472.3 | 22110.9 | 21647.8 | 19048.1 | 18771.4 | 22154.9 | 22221.3 |
| 60° | 20630.8 | 23003.8 | 23563.6 | 23050.5 | 20428.3 | 20046.8 | 22955.2 | 22632.7 |
| 62.5° | 21429.7 | 23522.8 | 23916.3 | 23363.8 | 21373.9 | 21405.5 | 23130.7 | 22410.5 |
| 65° | 21072.9 | 22210.8 | 22337.7 | 22292.3 | 21130.1 | 22193.8 | 22499.9 | 21383.0 |
| 67.5° | 19117.7 | 18893.7 | 19107.2 | 19402.2 | 19042.1 | 21155.8 | 20751.8 | 19144.8 |
| 70° | 15673.8 | 14443.3 | 14868.9 | 15066.8 | 15230.3 | 18205.2 | 18011.4 | 15593.6 |
| 72.5° | 11812.0 | 10118.9 | 10454.7 | 10413.9 | 11170.2 | 14602.3 | 14007.7 | 11465.7 |
| 75° | 8369.4 | 6860.9 | 6903.1 | 6886.6 | 7794.5 | 11424.5 | 10143.2 | 7844.4 |
| 77.5° | 5855.8 | 4970.8 | 4993.7 | 5087.2 | 5240.2 | 8616.3 | 7246.6 | 5730.3 |
| 80° | 4026.7 | 3772.4 | 3897.9 | 3905.7 | 3631.8 | 5788.0 | 5353.8 | 4598.8 |
| 82.5° | 2999.2 | 2622.1 | 2591.9 | 2635.9 | 2846.2 | 4689.5 | 4114.2 | 3189.7 |
| 85° | 2455.9 | 1552.5 | 1248.3 | 1564.9 | 2522.3 | 4644.2 | 2733.0 | 1682.6 |
| 87.5° | 1383.0 | 737.1 | 333.0 | 617.5 | 1006.4 | 3074.7 | 789.8 | 214.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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