

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: P191903

Luminaire Tested: **GAN-AF-05-LED-U-SL2-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191903
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: GAN-AF-05-LED-U-SL2-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31970 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 320
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

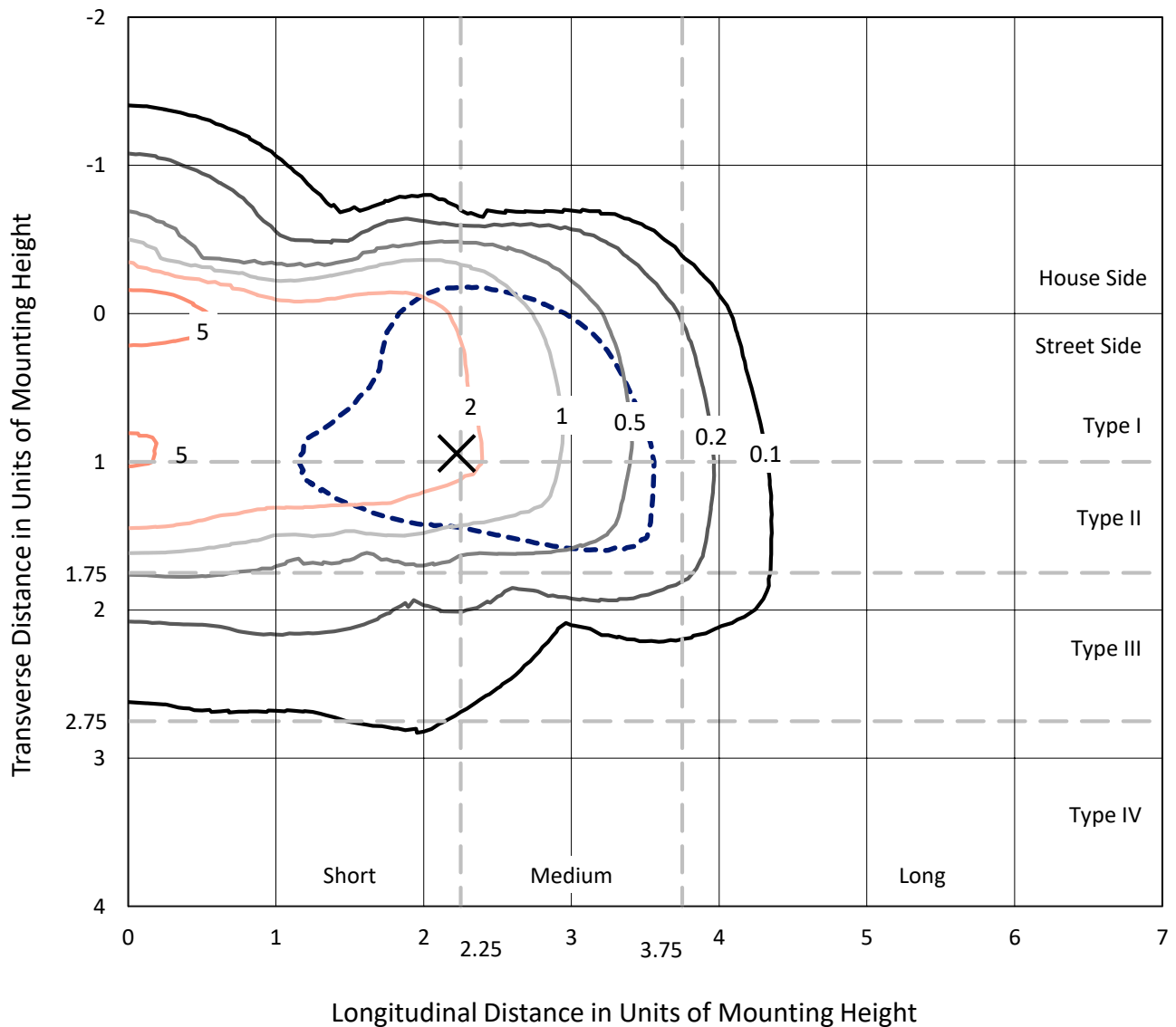


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

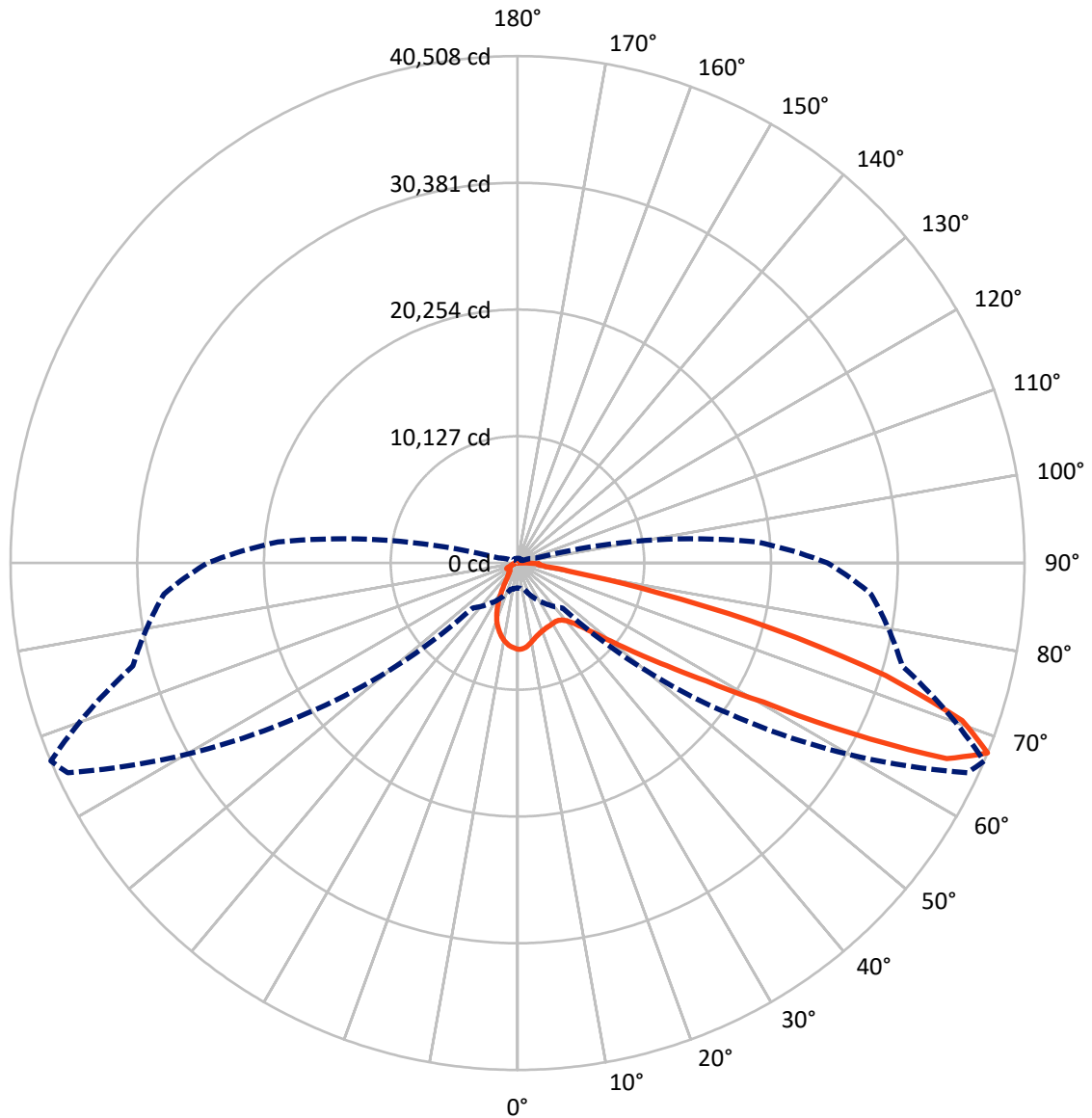


Based on 30 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - Semi-Cutoff

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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 | 5297.1 | 0.0 | 5297.1 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 26672.9 | 0.0 | 26672.9 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 31970.0 | 0.0 | 31970.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 588.3 | 1.8 |
| 10°-20° | 1361.3 | 4.3 |
| 20°-30° | 1845.2 | 5.8 |
| 30°-40° | 2623.2 | 8.2 |
| 40°-50° | 4388.7 | 13.7 |
| 50°-60° | 6942.9 | 21.7 |
| 60°-70° | 8844.6 | 27.7 |
| 70°-80° | 4632.8 | 14.5 |
| 80°-90° | 743.0 | 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° | 31970.0 | 100.0 |
| 0°-180° | 31970.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P191903

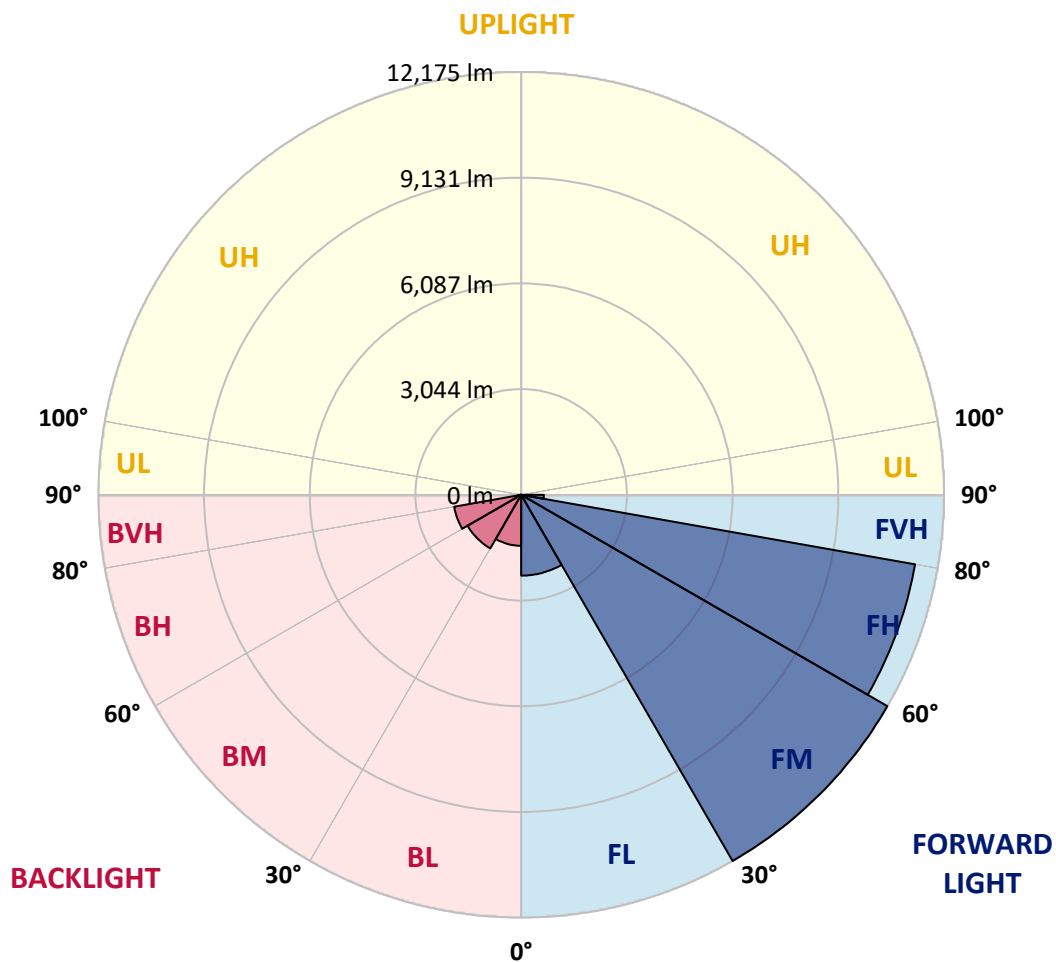
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2326.6 | 7.3 | | | |
| FM (30°-60°) | 12174.8 | 38.1 | | | |
| FH (60°-80°) | 11518.1 | 36.0 | | | G4/12000 |
| FVH (80°-90°) | 653.3 | 2.0 | | | G4/750 |
| BL (0°-30°) | 1468.2 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 1780.0 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 1959.2 | 6.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 89.7 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6895.9 | 6895.9 | 6895.9 | 6895.9 | 6895.9 | 6895.9 | 6895.9 | 6895.9 | 6895.9 | 6895.9 | 6895.9 |
| 2.5° | 6612.1 | 6623.1 | 6657.8 | 6679.9 | 6779.2 | 6821.8 | 6851.7 | 6881.7 | 6886.4 | 6900.6 | 6886.4 |
| 5° | 5918.4 | 5942.0 | 6006.7 | 6079.2 | 6271.5 | 6422.9 | 6582.1 | 6747.7 | 6777.6 | 6884.8 | 6914.8 |
| 7.5° | 5380.8 | 5374.5 | 5428.1 | 5514.8 | 5711.9 | 5921.5 | 6200.6 | 6530.1 | 6594.7 | 6835.9 | 6952.6 |
| 10° | 4988.2 | 4983.5 | 5040.2 | 5130.1 | 5317.7 | 5516.4 | 5831.7 | 6282.6 | 6374.0 | 6758.7 | 6988.9 |
| 12.5° | 4698.1 | 4699.7 | 4756.5 | 4855.8 | 5046.6 | 5246.8 | 5566.8 | 6042.9 | 6159.6 | 6668.8 | 7026.7 |
| 15° | 4505.8 | 4518.4 | 4564.1 | 4669.8 | 4855.8 | 5056.0 | 5369.7 | 5863.2 | 5994.1 | 6597.9 | 7069.3 |
| 17.5° | 4441.2 | 4461.7 | 4477.4 | 4554.7 | 4713.9 | 4914.1 | 5221.5 | 5730.8 | 5869.5 | 6549.0 | 7107.1 |
| 20° | 4501.1 | 4524.7 | 4494.8 | 4521.6 | 4622.5 | 4799.0 | 5104.9 | 5626.7 | 5768.6 | 6493.8 | 7111.8 |
| 22.5° | 4758.0 | 4780.1 | 4691.8 | 4614.6 | 4608.3 | 4715.5 | 5008.7 | 5544.7 | 5691.4 | 6452.8 | 7113.4 |
| 25° | 5210.5 | 5224.7 | 5076.5 | 4896.8 | 4721.8 | 4685.5 | 4940.9 | 5488.0 | 5644.1 | 6416.6 | 7083.5 |
| 27.5° | 5765.5 | 5776.5 | 5606.2 | 5341.4 | 4989.8 | 4756.5 | 4917.3 | 5454.9 | 5617.3 | 6385.0 | 7033.0 |
| 30° | 6440.2 | 6492.3 | 6263.7 | 5929.4 | 5417.0 | 4966.1 | 4964.6 | 5437.5 | 5587.3 | 6331.4 | 6933.7 |
| 32.5° | 7130.8 | 7152.8 | 6995.2 | 6656.2 | 5992.5 | 5335.1 | 5097.0 | 5450.1 | 5579.4 | 6266.8 | 6807.6 |
| 35° | 7830.7 | 7859.1 | 7756.6 | 7483.9 | 6779.2 | 5875.8 | 5355.6 | 5524.2 | 5628.3 | 6244.7 | 6719.3 |
| 37.5° | 8737.3 | 8775.1 | 8633.2 | 8317.9 | 7736.2 | 6608.9 | 5786.0 | 5710.3 | 5778.1 | 6307.8 | 6692.5 |
| 40° | 10170.4 | 10153.0 | 9738.4 | 9268.6 | 8783.0 | 7547.0 | 6400.8 | 6025.6 | 6065.0 | 6511.2 | 6774.5 |
| 42.5° | 11838.3 | 11795.8 | 11081.6 | 10343.8 | 9933.9 | 8682.1 | 7214.3 | 6572.7 | 6564.8 | 6911.6 | 7063.0 |
| 45° | 13169.0 | 13134.3 | 12491.0 | 11581.4 | 11253.4 | 9974.9 | 8265.9 | 7387.7 | 7329.4 | 7547.0 | 7595.8 |
| 47.5° | 13889.4 | 13891.0 | 13520.5 | 12778.0 | 12770.1 | 11617.6 | 9617.0 | 8567.0 | 8466.1 | 8568.6 | 8516.5 |
| 50° | 13637.2 | 13670.3 | 13630.9 | 13394.4 | 14154.3 | 13771.2 | 11381.1 | 10211.3 | 10008.0 | 10108.9 | 9908.6 |
| 52.5° | 12416.9 | 12459.5 | 12692.8 | 13055.5 | 14736.1 | 16374.1 | 13973.0 | 12254.6 | 12018.1 | 11981.8 | 11759.5 |
| 55° | 10253.9 | 10305.9 | 10782.1 | 11767.4 | 14252.1 | 18122.5 | 18062.6 | 14859.0 | 14482.2 | 14140.1 | 14045.5 |
| 57.5° | 7067.7 | 7154.4 | 7920.6 | 9383.7 | 12686.5 | 18650.6 | 22932.6 | 18571.8 | 17805.6 | 16610.6 | 16632.7 |
| 60° | 3984.0 | 4084.9 | 4988.2 | 6317.3 | 9527.1 | 18076.8 | 26637.5 | 24195.4 | 22577.8 | 19503.6 | 19667.5 |
| 62.5° | 2533.5 | 2642.3 | 3328.1 | 4389.1 | 5716.6 | 14986.7 | 28155.7 | 32013.5 | 29959.3 | 23069.7 | 23230.5 |
| 65° | 2051.1 | 2098.4 | 2421.6 | 3622.9 | 4151.1 | 9028.9 | 27003.2 | 38453.7 | 37687.5 | 27596.0 | 26845.6 |
| 67.5° | 2002.2 | 2018.0 | 2185.1 | 3041.2 | 3980.8 | 5074.9 | 21538.9 | 39658.2 | 40508.0 | 31822.8 | 28351.2 |
| 70° | 1978.6 | 2033.8 | 2462.6 | 2902.4 | 3812.1 | 4280.3 | 12943.5 | 36356.9 | 37698.6 | 32927.9 | 26347.4 |
| 72.5° | 960.1 | 957.0 | 1239.2 | 2625.0 | 4294.5 | 4439.6 | 6649.9 | 29416.9 | 30763.3 | 28527.8 | 21650.8 |
| 75° | 774.1 | 707.9 | 676.3 | 961.7 | 4129.0 | 4584.6 | 4237.8 | 20241.4 | 21215.7 | 19126.8 | 13309.3 |
| 77.5° | 734.7 | 655.8 | 600.7 | 602.2 | 1745.2 | 4862.1 | 3589.8 | 11203.0 | 11486.8 | 8639.5 | 3646.6 |
| 80° | 608.6 | 536.0 | 496.6 | 559.7 | 845.0 | 4630.3 | 3881.5 | 5070.2 | 4652.4 | 2122.0 | 1213.9 |
| 82.5° | 422.5 | 384.7 | 373.6 | 469.8 | 676.3 | 3299.7 | 4513.7 | 2724.3 | 2284.4 | 1062.6 | 748.9 |
| 85° | 269.6 | 230.2 | 255.4 | 342.1 | 526.6 | 1523.0 | 4649.3 | 2123.6 | 1688.5 | 674.8 | 422.5 |
| 87.5° | 124.5 | 100.9 | 126.1 | 189.2 | 343.7 | 525.0 | 4423.8 | 2385.3 | 1738.9 | 356.3 | 266.4 |
| 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: GAN-AF-05-LED-U-SL2-7050-1200

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6895.9 | 6895.9 | 6895.9 | 6895.9 | 6895.9 | 6895.9 | 6895.9 | 6895.9 | 6895.9 | 6895.9 | 6895.9 |
| 2.5° | 6899.0 | 6869.0 | 6845.4 | 6801.3 | 6752.4 | 6705.1 | 6662.5 | 6608.9 | 6593.2 | 6579.0 | 6601.0 |
| 5° | 6921.1 | 6891.1 | 6804.4 | 6668.8 | 6519.1 | 6378.7 | 6238.4 | 6118.6 | 6044.5 | 6003.5 | 6027.2 |
| 7.5° | 6954.2 | 6911.6 | 6731.9 | 6482.8 | 6213.2 | 5967.3 | 5713.4 | 5510.1 | 5360.3 | 5289.3 | 5309.8 |
| 10° | 6984.1 | 6902.2 | 6608.9 | 6235.3 | 5841.1 | 5475.4 | 5074.9 | 4743.9 | 4497.9 | 4368.6 | 4400.2 |
| 12.5° | 6996.8 | 6865.9 | 6437.1 | 5926.3 | 5385.5 | 4849.5 | 4259.9 | 3764.8 | 3411.7 | 3282.4 | 3255.6 |
| 15° | 7009.4 | 6824.9 | 6247.9 | 5574.7 | 4835.3 | 4077.0 | 3250.9 | 2658.1 | 2364.8 | 2300.2 | 2286.0 |
| 17.5° | 7012.5 | 6754.0 | 6033.5 | 5193.2 | 4190.5 | 3157.8 | 2222.9 | 1846.1 | 1847.7 | 1951.8 | 1964.4 |
| 20° | 6979.4 | 6648.3 | 5773.3 | 4718.6 | 3418.0 | 2183.5 | 1526.1 | 1461.5 | 1699.5 | 1959.7 | 1991.2 |
| 22.5° | 6903.7 | 6508.0 | 5478.5 | 4165.3 | 2533.5 | 1437.8 | 1180.8 | 1251.8 | 1559.2 | 1877.7 | 1913.9 |
| 25° | 6807.6 | 6337.8 | 5130.1 | 3523.6 | 1677.5 | 1027.9 | 990.1 | 1076.8 | 1284.9 | 1497.7 | 1518.2 |
| 27.5° | 6676.7 | 6136.0 | 4739.1 | 2788.9 | 1089.4 | 846.6 | 871.8 | 930.2 | 1015.3 | 1109.9 | 1119.4 |
| 30° | 6508.0 | 5894.7 | 4321.3 | 2033.8 | 823.0 | 761.5 | 797.7 | 829.3 | 865.5 | 919.1 | 923.9 |
| 32.5° | 6314.1 | 5663.0 | 3892.5 | 1404.7 | 729.9 | 717.3 | 745.7 | 761.5 | 789.9 | 823.0 | 826.1 |
| 35° | 6151.7 | 5442.3 | 3447.9 | 993.2 | 690.5 | 684.2 | 703.1 | 709.4 | 736.3 | 772.5 | 775.7 |
| 37.5° | 6058.7 | 5262.5 | 2989.1 | 800.9 | 663.7 | 654.3 | 665.3 | 665.3 | 703.1 | 756.7 | 764.6 |
| 40° | 6065.0 | 5163.2 | 2530.4 | 723.6 | 641.7 | 629.0 | 630.6 | 630.6 | 679.5 | 737.8 | 742.6 |
| 42.5° | 6236.9 | 5188.4 | 2123.6 | 693.7 | 624.3 | 610.1 | 602.2 | 607.0 | 648.0 | 685.8 | 689.0 |
| 45° | 6640.4 | 5366.6 | 1742.1 | 674.8 | 607.0 | 602.2 | 584.9 | 583.3 | 599.1 | 616.4 | 616.4 |
| 47.5° | 7302.6 | 5718.2 | 1483.5 | 662.2 | 592.8 | 591.2 | 570.7 | 550.2 | 548.6 | 554.9 | 554.9 |
| 50° | 8379.4 | 6323.6 | 1310.1 | 648.0 | 583.3 | 570.7 | 547.1 | 515.5 | 504.5 | 509.2 | 509.2 |
| 52.5° | 9993.8 | 7403.5 | 1243.9 | 629.0 | 562.8 | 542.3 | 515.5 | 484.0 | 474.5 | 476.1 | 476.1 |
| 55° | 12111.1 | 9062.0 | 1234.4 | 607.0 | 540.8 | 507.7 | 485.6 | 461.9 | 450.9 | 454.0 | 454.0 |
| 57.5° | 14698.2 | 11355.9 | 1403.1 | 572.3 | 510.8 | 473.0 | 460.4 | 444.6 | 436.7 | 441.4 | 439.9 |
| 60° | 17843.4 | 14357.7 | 2081.1 | 536.0 | 480.8 | 441.4 | 441.4 | 428.8 | 422.5 | 427.2 | 425.7 |
| 62.5° | 21466.4 | 17805.6 | 2926.1 | 509.2 | 449.3 | 416.2 | 422.5 | 416.2 | 409.9 | 413.1 | 411.5 |
| 65° | 24679.4 | 20052.2 | 2740.1 | 488.7 | 417.8 | 392.6 | 403.6 | 400.4 | 395.7 | 398.9 | 397.3 |
| 67.5° | 24772.4 | 19219.8 | 1538.7 | 466.7 | 387.8 | 368.9 | 384.7 | 383.1 | 379.9 | 383.1 | 381.5 |
| 70° | 22108.0 | 16229.1 | 867.1 | 425.7 | 356.3 | 340.5 | 362.6 | 361.0 | 357.9 | 364.2 | 362.6 |
| 72.5° | 17712.6 | 11776.9 | 633.8 | 375.2 | 324.8 | 310.6 | 335.8 | 334.2 | 334.2 | 343.7 | 339.0 |
| 75° | 10192.4 | 6060.3 | 506.1 | 321.6 | 291.7 | 280.6 | 302.7 | 304.3 | 307.4 | 320.0 | 310.6 |
| 77.5° | 2905.6 | 1888.7 | 413.1 | 272.7 | 250.7 | 245.9 | 268.0 | 271.2 | 272.7 | 286.9 | 274.3 |
| 80° | 1079.9 | 870.3 | 340.5 | 228.6 | 205.0 | 206.5 | 227.0 | 231.8 | 233.3 | 247.5 | 231.8 |
| 82.5° | 689.0 | 573.9 | 275.9 | 176.6 | 160.8 | 159.2 | 184.5 | 190.8 | 190.8 | 192.3 | 182.9 |
| 85° | 402.0 | 343.7 | 208.1 | 127.7 | 113.5 | 108.8 | 137.2 | 148.2 | 143.5 | 140.3 | 134.0 |
| 87.5° | 269.6 | 236.5 | 127.7 | 70.9 | 61.5 | 58.3 | 80.4 | 88.3 | 85.1 | 80.4 | 75.7 |
| 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)