

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: P192978

Luminaire Tested: **GAN-AF-10-LED-U-SL4-7030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-SL4-7030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35674.2 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - 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

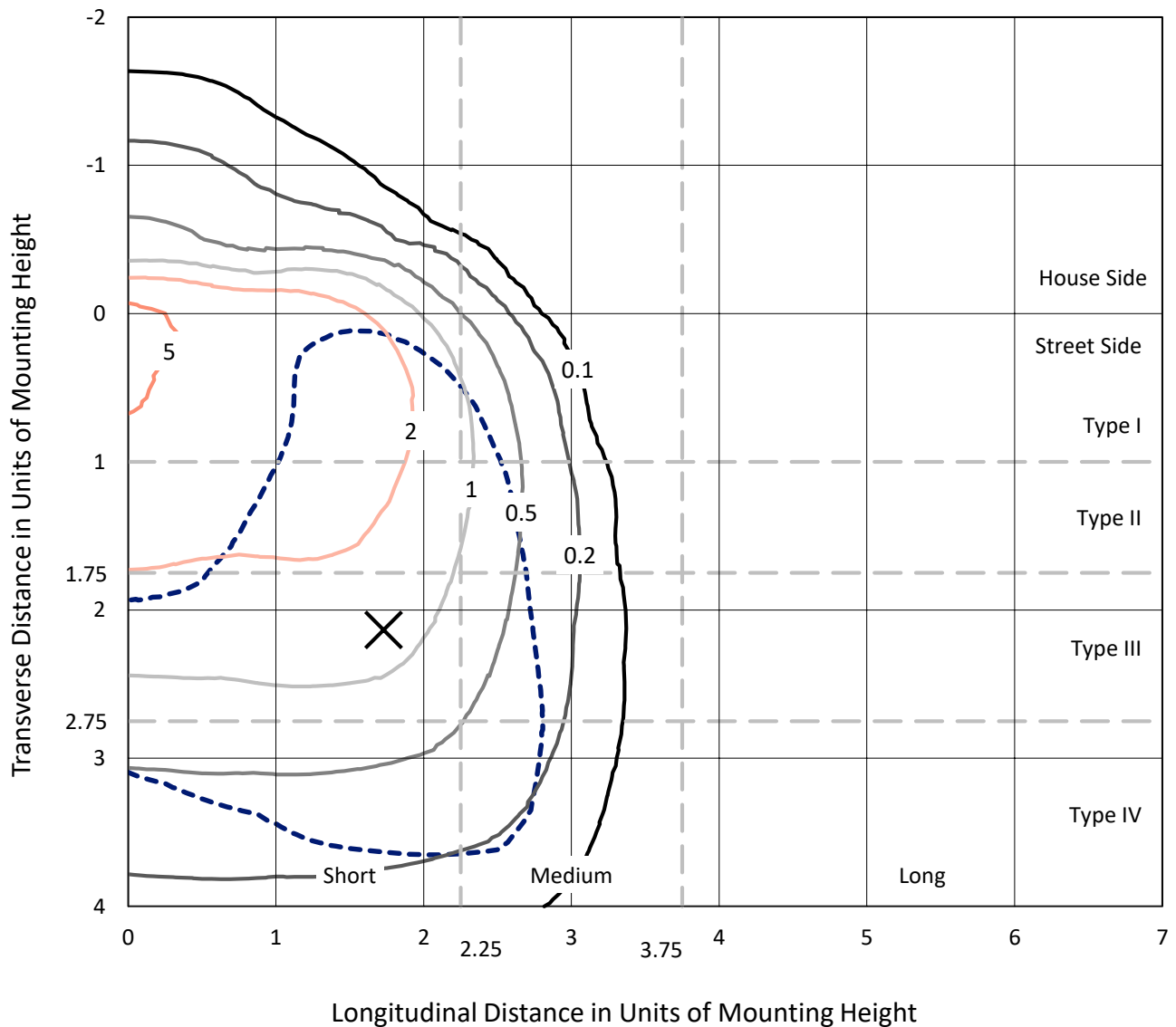


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

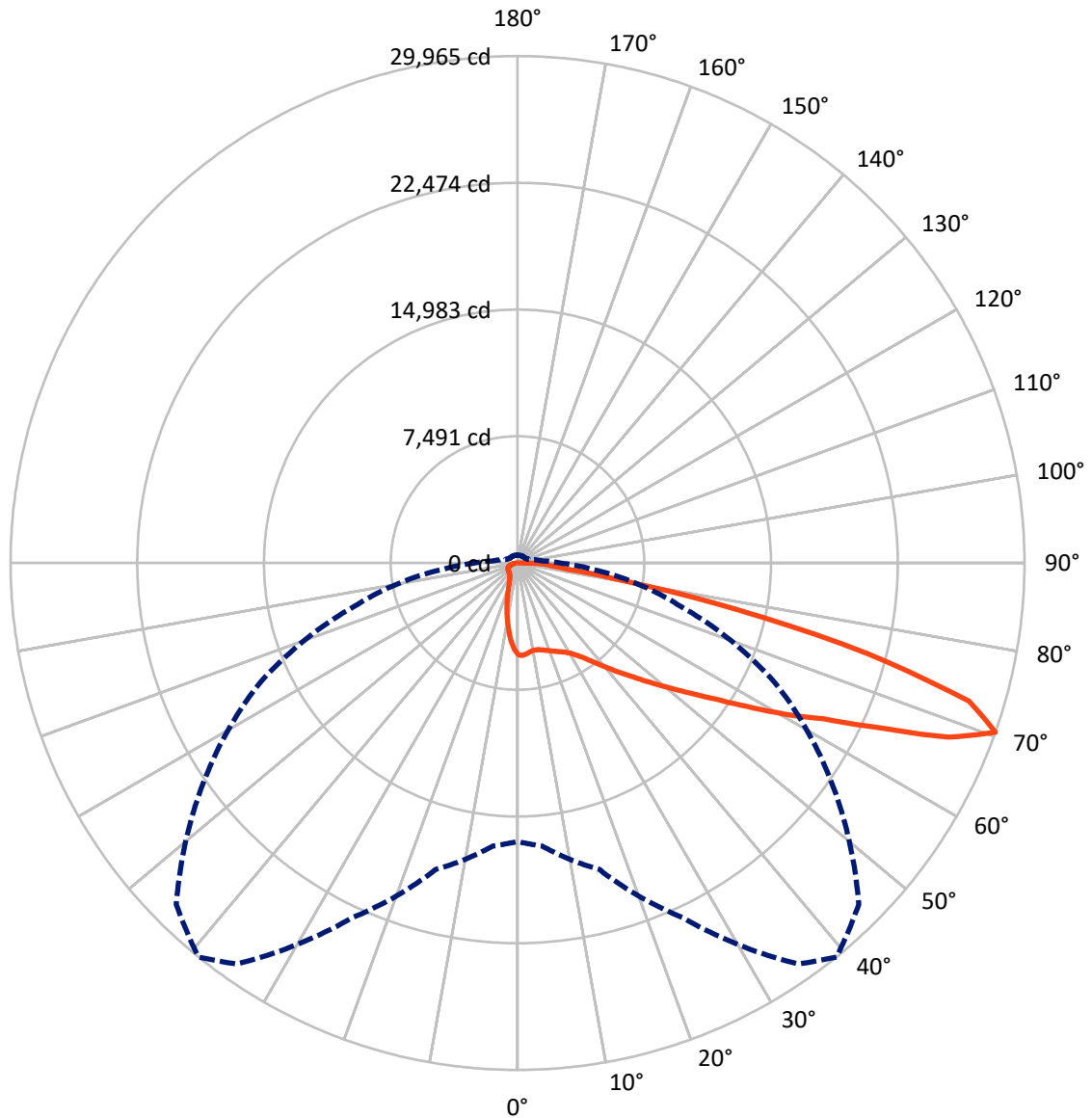


Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4057.3 | 0.0 | 4057.3 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 31616.9 | 0.0 | 31616.9 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 35674.2 | 0.0 | 35674.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 464.8 | 1.3 |
| 10°-20° | 1161.8 | 3.3 |
| 20°-30° | 1808.9 | 5.1 |
| 30°-40° | 2818.0 | 7.9 |
| 40°-50° | 4730.9 | 13.3 |
| 50°-60° | 7515.5 | 21.1 |
| 60°-70° | 10024.8 | 28.1 |
| 70°-80° | 6053.8 | 17.0 |
| 80°-90° | 1095.6 | 3.1 |
| 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° | 35674.2 | 100.0 |
| 0°-180° | 35674.2 | 100.0 |

Coefficient of Utilization



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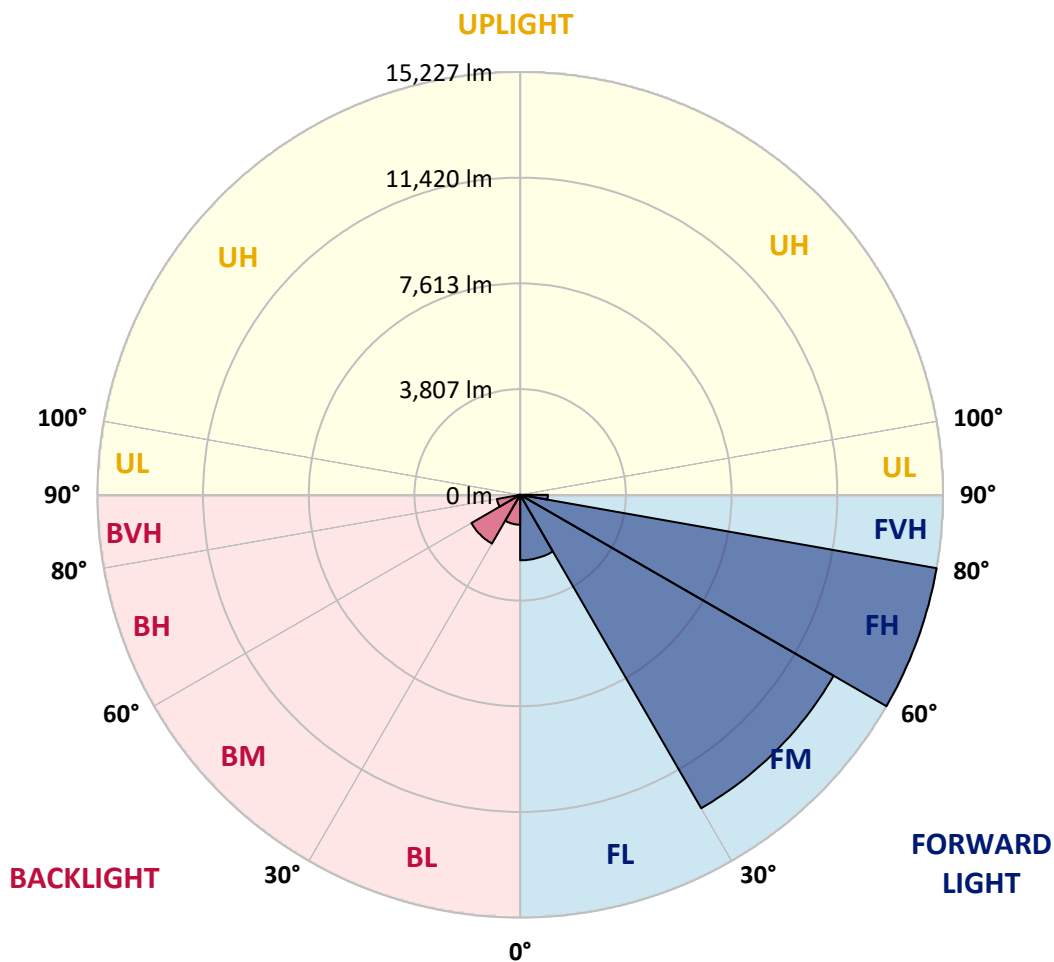
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2359.2 | 6.6 | | | |
| FM | (30°-60°) | 13034.0 | 36.5 | | | |
| FH | (60°-80°) | 15226.8 | 42.7 | | | G5 |
| FVH | (80°-90°) | 996.9 | 2.8 | | | G5 |
| BL | (0°-30°) | 1076.3 | 3.0 | B3/2500 | | |
| BM | (30°-60°) | 2030.5 | 5.7 | B2/2500 | | |
| BH | (60°-80°) | 851.8 | 2.4 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 98.7 | 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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5415.9 | 5415.9 | 5415.9 | 5415.9 | 5415.9 | 5415.9 | 5415.9 | 5415.9 | 5415.9 | 5415.9 | 5415.9 |
| 2.5° | 5521.1 | 5519.3 | 5504.8 | 5493.9 | 5484.9 | 5481.2 | 5488.4 | 5461.3 | 5437.7 | 5408.7 | 5377.8 |
| 5° | 5479.4 | 5477.6 | 5454.0 | 5432.3 | 5410.4 | 5403.2 | 5401.3 | 5352.4 | 5323.4 | 5279.9 | 5221.8 |
| 7.5° | 5434.0 | 5424.9 | 5394.1 | 5357.8 | 5319.8 | 5301.6 | 5283.4 | 5220.0 | 5187.4 | 5143.8 | 5076.7 |
| 10° | 5386.9 | 5376.0 | 5346.9 | 5310.6 | 5274.4 | 5247.1 | 5216.4 | 5154.8 | 5120.2 | 5087.6 | 5009.6 |
| 12.5° | 5337.9 | 5328.8 | 5321.6 | 5305.3 | 5279.9 | 5256.3 | 5232.8 | 5180.1 | 5143.8 | 5105.8 | 5015.1 |
| 15° | 5330.6 | 5327.1 | 5343.4 | 5354.2 | 5339.7 | 5325.2 | 5299.8 | 5254.5 | 5216.4 | 5178.4 | 5060.5 |
| 17.5° | 5388.6 | 5386.9 | 5428.5 | 5457.6 | 5450.4 | 5424.9 | 5390.6 | 5339.7 | 5308.9 | 5276.2 | 5129.2 |
| 20° | 5515.6 | 5524.7 | 5575.5 | 5613.6 | 5577.3 | 5541.1 | 5484.9 | 5414.2 | 5397.7 | 5383.2 | 5200.0 |
| 22.5° | 5755.1 | 5764.2 | 5800.5 | 5814.9 | 5720.6 | 5668.1 | 5590.0 | 5499.3 | 5488.4 | 5499.3 | 5285.3 |
| 25° | 6128.7 | 6119.6 | 6114.1 | 6059.7 | 5887.4 | 5805.8 | 5706.1 | 5611.8 | 5617.2 | 5666.1 | 5405.0 |
| 27.5° | 6623.9 | 6574.9 | 6498.7 | 6335.5 | 6061.6 | 5970.9 | 5849.4 | 5762.4 | 5796.8 | 5891.2 | 5584.6 |
| 30° | 7137.2 | 7082.7 | 6906.9 | 6640.2 | 6290.2 | 6190.4 | 6054.4 | 5956.4 | 6047.1 | 6195.9 | 5823.9 |
| 32.5° | 7612.4 | 7605.1 | 7347.5 | 7004.7 | 6605.7 | 6518.6 | 6382.6 | 6272.0 | 6418.9 | 6645.5 | 6183.1 |
| 35° | 8131.1 | 8147.5 | 7839.2 | 7427.3 | 7031.9 | 6941.2 | 6843.4 | 6759.9 | 6955.8 | 7267.7 | 6703.7 |
| 37.5° | 8686.1 | 8718.8 | 8354.2 | 7889.8 | 7518.0 | 7480.0 | 7422.0 | 7385.6 | 7688.6 | 8120.2 | 7431.0 |
| 40° | 9428.0 | 9395.3 | 8889.3 | 8412.2 | 8114.8 | 8112.9 | 8094.8 | 8138.4 | 8642.6 | 9233.8 | 8365.1 |
| 42.5° | 10222.4 | 10126.2 | 9456.9 | 8972.7 | 8769.5 | 8831.2 | 8867.5 | 9045.2 | 9790.7 | 10586.9 | 9504.1 |
| 45° | 11078.5 | 10862.7 | 10046.5 | 9565.7 | 9497.0 | 9627.5 | 9750.9 | 10137.2 | 11141.9 | 12126.8 | 10751.9 |
| 47.5° | 11762.3 | 11553.7 | 10655.8 | 10187.9 | 10338.4 | 10536.2 | 10773.7 | 11385.1 | 12654.6 | 13717.5 | 11983.5 |
| 50° | 12301.0 | 12164.9 | 11270.7 | 10913.5 | 11265.2 | 11570.0 | 11958.2 | 12798.0 | 14229.0 | 15266.5 | 13124.4 |
| 52.5° | 12823.3 | 12721.7 | 11891.0 | 11657.1 | 12353.5 | 12774.4 | 13302.2 | 14314.3 | 15843.2 | 16790.0 | 14083.8 |
| 55° | 13294.8 | 13222.3 | 12558.5 | 12583.9 | 13634.0 | 14181.9 | 14845.7 | 16040.9 | 17602.5 | 18148.5 | 14896.4 |
| 57.5° | 13826.3 | 13733.8 | 13320.4 | 13746.6 | 15279.2 | 15990.2 | 16853.5 | 17981.7 | 19253.1 | 19356.5 | 15515.0 |
| 60° | 14361.4 | 14281.6 | 14165.5 | 15088.7 | 17368.6 | 18115.8 | 18933.9 | 19862.6 | 20927.2 | 20294.3 | 15478.6 |
| 62.5° | 14825.7 | 14834.7 | 15039.7 | 16498.0 | 19414.5 | 20279.7 | 21277.2 | 22195.0 | 22441.8 | 20457.4 | 14334.2 |
| 65° | 15612.9 | 15756.2 | 16367.4 | 18493.1 | 22294.8 | 23452.0 | 24676.3 | 24529.4 | 22860.7 | 18932.1 | 11880.2 |
| 67.5° | 16548.9 | 16800.9 | 18039.7 | 21152.1 | 25935.0 | 27471.3 | 27944.7 | 25057.2 | 21182.9 | 15389.8 | 8468.4 |
| 70° | 16454.5 | 16800.9 | 18761.6 | 23134.5 | 28935.0 | 29965.2 | 28528.6 | 22677.6 | 16820.9 | 10053.7 | 4498.1 |
| 72.5° | 14611.7 | 15106.8 | 17290.6 | 22225.8 | 27990.0 | 27899.4 | 24767.0 | 16906.1 | 9993.8 | 4037.4 | 1757.6 |
| 75° | 11136.5 | 11637.1 | 13516.1 | 17559.0 | 22122.5 | 21360.7 | 17573.6 | 9339.1 | 3792.6 | 1603.4 | 1108.2 |
| 77.5° | 6406.2 | 6794.4 | 8245.4 | 10768.4 | 14034.9 | 13253.1 | 9781.7 | 4153.5 | 1846.4 | 1117.2 | 865.2 |
| 80° | 3576.7 | 3792.6 | 4674.1 | 5463.1 | 6877.8 | 6304.7 | 4376.6 | 2581.0 | 1378.5 | 810.7 | 667.5 |
| 82.5° | 2827.6 | 3019.9 | 3780.0 | 3446.1 | 3141.4 | 2898.4 | 2513.8 | 2298.0 | 1101.0 | 511.5 | 399.1 |
| 85° | 2470.4 | 2653.6 | 3199.4 | 2713.4 | 2145.7 | 1968.0 | 2042.3 | 2261.7 | 856.0 | 308.3 | 341.0 |
| 87.5° | 2289.0 | 2533.8 | 2851.2 | 2091.2 | 1670.5 | 1480.0 | 1884.5 | 2479.4 | 275.7 | 192.3 | 137.8 |
| 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-10-LED-U-SL4-7030-600-ADJ

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5415.9 | 5415.9 | 5415.9 | 5415.9 | 5415.9 | 5415.9 | 5415.9 | 5415.9 | 5415.9 | 5415.9 | 5415.9 |
| 2.5° | 5350.7 | 5321.6 | 5274.4 | 5232.8 | 5167.4 | 5133.0 | 5094.9 | 5067.7 | 5045.9 | 5027.8 | 5056.7 |
| 5° | 5185.6 | 5131.2 | 5031.4 | 4924.5 | 4797.3 | 4697.6 | 4614.2 | 4536.2 | 4481.9 | 4445.5 | 4470.9 |
| 7.5° | 5029.5 | 4940.7 | 4784.7 | 4590.6 | 4373.0 | 4188.0 | 4035.6 | 3901.4 | 3808.9 | 3749.0 | 3772.6 |
| 10° | 4940.7 | 4830.1 | 4588.8 | 4284.2 | 3963.1 | 3674.7 | 3435.2 | 3228.5 | 3085.3 | 3003.6 | 3016.3 |
| 12.5° | 4919.0 | 4775.6 | 4441.9 | 4022.9 | 3584.0 | 3183.2 | 2845.7 | 2559.2 | 2358.0 | 2252.7 | 2256.3 |
| 15° | 4935.2 | 4752.0 | 4304.0 | 3772.6 | 3217.5 | 2711.6 | 2290.8 | 1942.5 | 1708.6 | 1588.8 | 1587.0 |
| 17.5° | 4962.4 | 4733.8 | 4159.0 | 3502.5 | 2845.7 | 2258.2 | 1788.3 | 1447.3 | 1240.6 | 1144.5 | 1137.3 |
| 20° | 4991.5 | 4704.9 | 3995.7 | 3210.4 | 2459.4 | 1837.3 | 1400.2 | 1133.6 | 1003.0 | 950.4 | 946.7 |
| 22.5° | 5033.2 | 4679.5 | 3827.1 | 2902.0 | 2080.4 | 1496.3 | 1151.7 | 972.2 | 903.2 | 876.0 | 872.4 |
| 25° | 5100.3 | 4666.8 | 3647.5 | 2581.0 | 1739.4 | 1251.4 | 1003.0 | 892.3 | 852.4 | 834.3 | 832.5 |
| 27.5° | 5212.8 | 4684.9 | 3478.9 | 2269.0 | 1461.9 | 1086.5 | 919.5 | 852.4 | 823.5 | 807.1 | 805.4 |
| 30° | 5357.8 | 4741.2 | 3301.0 | 1973.3 | 1246.1 | 974.0 | 868.8 | 825.2 | 801.6 | 785.3 | 785.3 |
| 32.5° | 5599.1 | 4835.5 | 3114.2 | 1717.7 | 1091.9 | 896.0 | 830.7 | 801.6 | 781.7 | 769.0 | 767.2 |
| 35° | 5954.6 | 5013.3 | 2940.1 | 1505.4 | 981.2 | 839.7 | 798.0 | 776.3 | 761.7 | 754.6 | 754.6 |
| 37.5° | 6471.5 | 5294.3 | 2785.9 | 1353.0 | 914.2 | 801.6 | 767.2 | 750.9 | 741.9 | 741.9 | 741.9 |
| 40° | 7166.2 | 5682.6 | 2660.8 | 1251.4 | 876.0 | 774.4 | 743.6 | 731.0 | 725.5 | 727.3 | 727.3 |
| 42.5° | 8024.1 | 6186.8 | 2577.3 | 1180.8 | 857.9 | 758.1 | 727.3 | 716.4 | 710.9 | 709.2 | 710.9 |
| 45° | 9001.8 | 6759.9 | 2568.2 | 1128.2 | 839.7 | 747.3 | 716.4 | 705.6 | 694.7 | 687.5 | 687.5 |
| 47.5° | 9952.1 | 7342.1 | 2642.7 | 1110.1 | 819.8 | 734.6 | 707.4 | 696.5 | 680.1 | 663.9 | 663.9 |
| 50° | 10791.9 | 7837.2 | 2742.4 | 1117.2 | 812.6 | 716.4 | 692.8 | 687.5 | 662.0 | 643.9 | 642.1 |
| 52.5° | 11459.3 | 8218.2 | 2824.1 | 1139.0 | 819.8 | 703.7 | 674.6 | 676.6 | 649.3 | 629.4 | 627.5 |
| 55° | 11994.5 | 8468.4 | 2802.3 | 1160.8 | 836.2 | 696.5 | 658.4 | 662.0 | 640.3 | 620.3 | 620.3 |
| 57.5° | 12228.4 | 8376.0 | 2561.0 | 1142.7 | 848.8 | 698.2 | 645.7 | 660.3 | 642.1 | 624.0 | 624.0 |
| 60° | 11726.0 | 7554.3 | 2109.4 | 1062.9 | 832.5 | 692.8 | 640.3 | 667.5 | 665.6 | 647.5 | 645.7 |
| 62.5° | 10206.0 | 6083.3 | 1636.0 | 945.0 | 776.3 | 665.6 | 625.7 | 665.6 | 685.6 | 680.1 | 678.4 |
| 65° | 7866.3 | 4333.1 | 1249.7 | 818.1 | 700.2 | 620.3 | 587.7 | 624.0 | 651.1 | 658.4 | 656.5 |
| 67.5° | 5105.8 | 2655.3 | 963.1 | 698.2 | 614.9 | 567.7 | 538.6 | 555.0 | 560.5 | 560.5 | 556.7 |
| 70° | 2510.2 | 1429.2 | 767.2 | 587.7 | 527.8 | 511.5 | 495.2 | 486.1 | 477.0 | 469.9 | 469.9 |
| 72.5° | 1238.8 | 934.0 | 631.2 | 497.0 | 455.3 | 448.0 | 444.3 | 433.5 | 426.2 | 417.2 | 413.5 |
| 75° | 915.9 | 760.0 | 536.9 | 419.0 | 391.8 | 384.5 | 391.8 | 382.7 | 380.9 | 373.6 | 370.1 |
| 77.5° | 752.7 | 647.5 | 462.5 | 359.1 | 335.5 | 322.9 | 333.8 | 335.5 | 337.4 | 326.4 | 322.9 |
| 80° | 611.2 | 547.7 | 386.3 | 297.4 | 275.7 | 266.6 | 273.9 | 288.3 | 292.0 | 275.7 | 268.4 |
| 82.5° | 440.8 | 448.0 | 311.9 | 232.1 | 214.0 | 206.7 | 221.2 | 239.4 | 243.0 | 219.5 | 214.0 |
| 85° | 370.1 | 373.6 | 239.4 | 165.1 | 147.0 | 136.0 | 159.6 | 177.8 | 190.4 | 166.8 | 161.3 |
| 87.5° | 154.2 | 219.5 | 137.8 | 92.6 | 81.6 | 70.7 | 85.2 | 94.3 | 114.2 | 105.2 | 103.4 |
| 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)