

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: P191094

Luminaire Tested: **GAN-AF-06-LED-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191094
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-06-LED-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1050mA 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: 35677.4 lumens
Efficiency: N/A
Efficacy: 107.1 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 - G5

Input Watts (W): 333
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

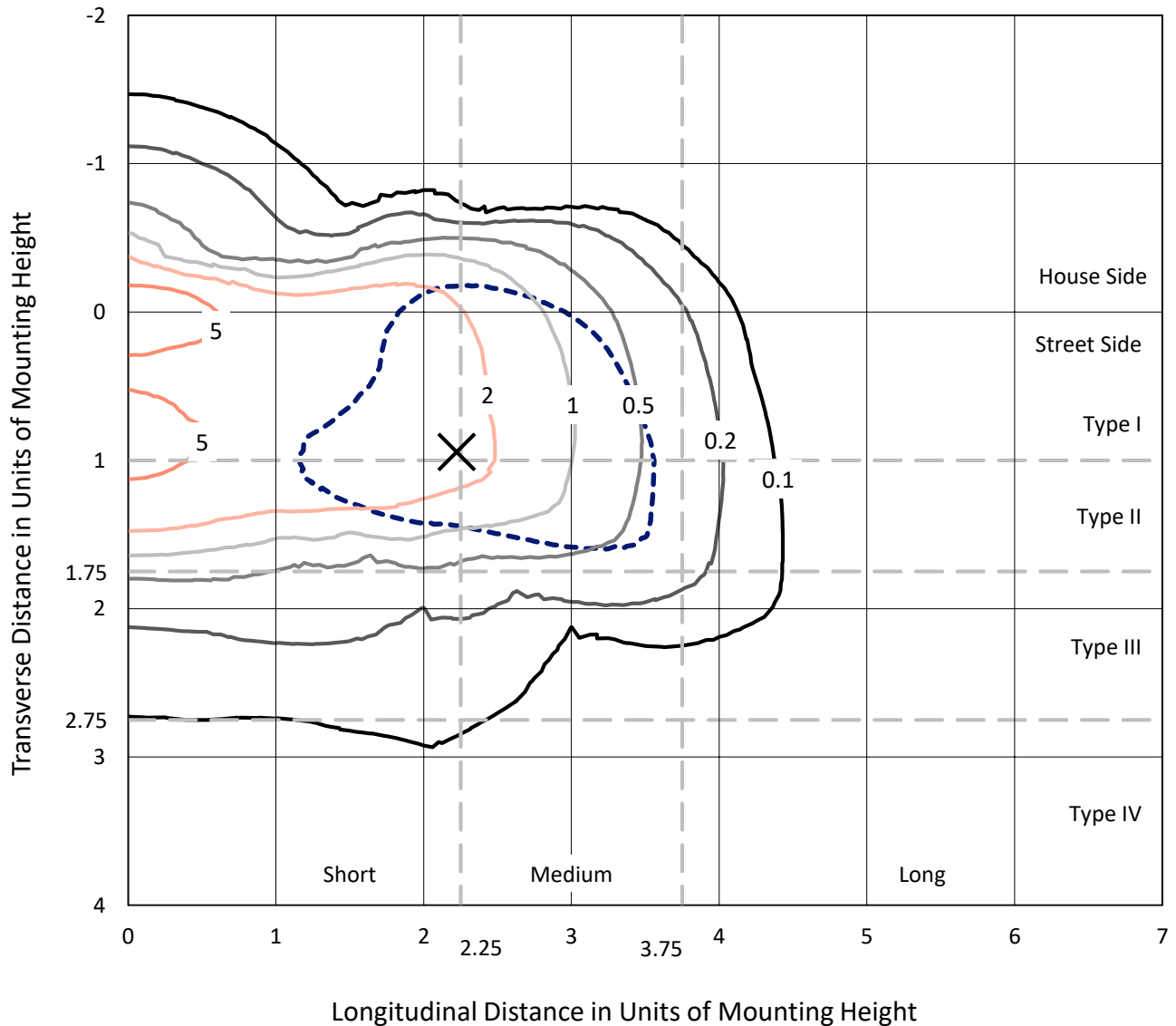


REPORT NUMBER: P191094

CATALOG NUMBER: GAN-AF-06-LED-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

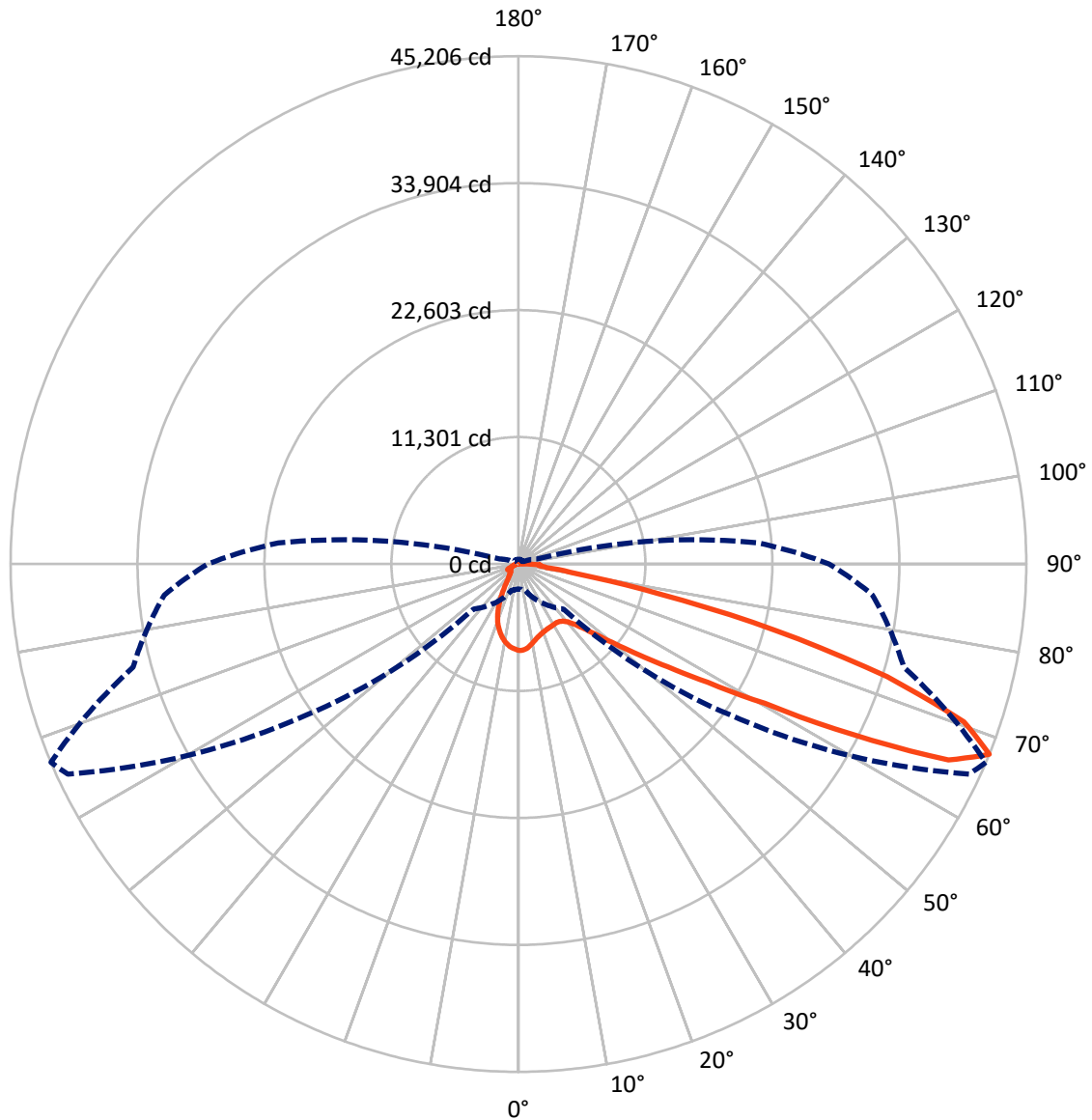


Based on 30 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191094

CATALOG NUMBER: GAN-AF-06-LED-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191094

CATALOG NUMBER: GAN-AF-06-LED-U-SL2

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5911.4 | 0.0 | 5911.4 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 29766.1 | 0.0 | 29766.1 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 35677.4 | 0.0 | 35677.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 656.6 | 1.8 |
| 10°-20° | 1519.1 | 4.3 |
| 20°-30° | 2059.2 | 5.8 |
| 30°-40° | 2927.4 | 8.2 |
| 40°-50° | 4897.7 | 13.7 |
| 50°-60° | 7748.0 | 21.7 |
| 60°-70° | 9870.2 | 27.7 |
| 70°-80° | 5170.0 | 14.5 |
| 80°-90° | 829.2 | 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° | 35677.4 | 100.0 |
| 0°-180° | 35677.4 | 100.0 |



REPORT NUMBER: P191094

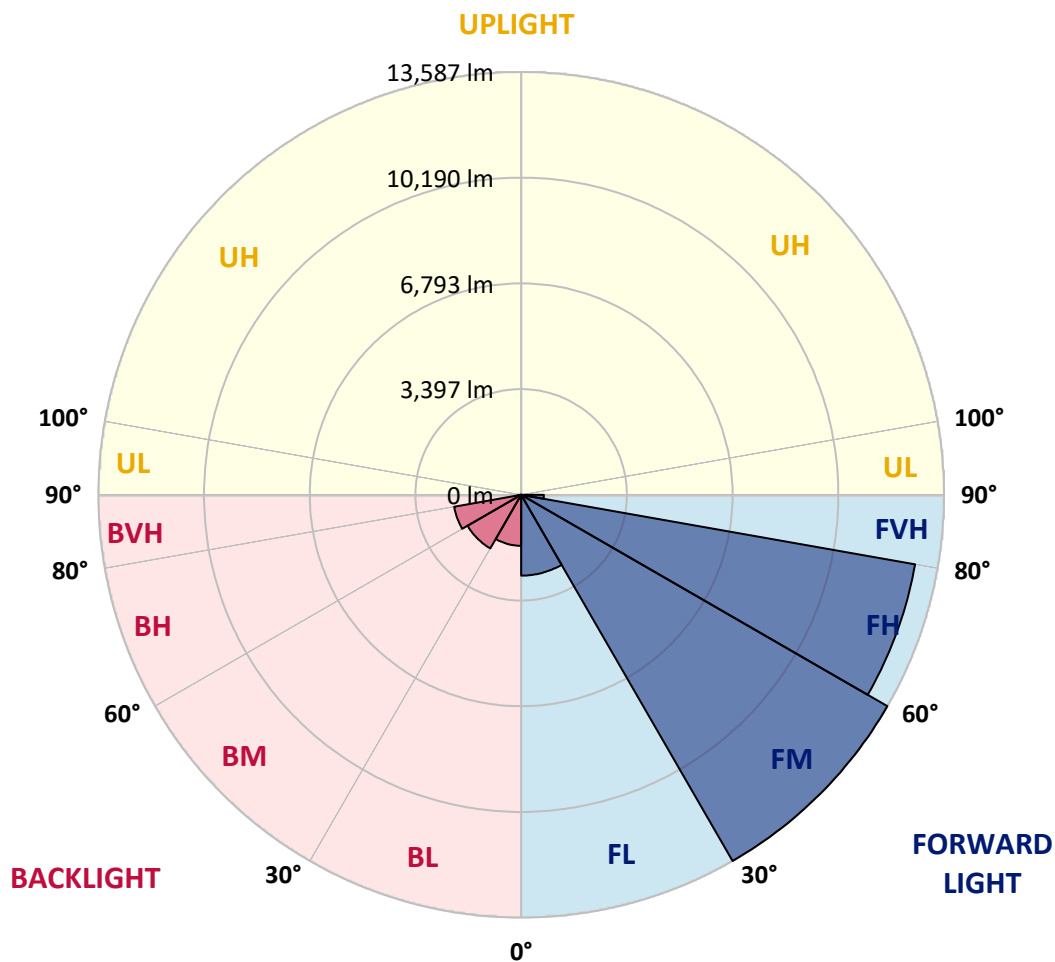
CATALOG NUMBER: GAN-AF-06-LED-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2596.4 | 7.3 | | | |
| FM (30°-60°) | 13586.7 | 38.1 | | | |
| FH (60°-80°) | 12853.8 | 36.0 | | | G5 |
| FVH (80°-90°) | 729.1 | 2.0 | | | G4/750 |
| BL (0°-30°) | 1638.5 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 1986.4 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 2186.4 | 6.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 100.1 | 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





REPORT NUMBER: P191094

CATALOG NUMBER: GAN-AF-06-LED-U-SL2

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7695.6 | 7695.6 | 7695.6 | 7695.6 | 7695.6 | 7695.6 | 7695.6 | 7695.6 | 7695.6 | 7695.6 | 7695.6 |
| 2.5° | 7378.9 | 7391.1 | 7429.9 | 7454.5 | 7565.3 | 7612.8 | 7646.3 | 7679.7 | 7685.0 | 7700.8 | 7685.0 |
| 5° | 6604.7 | 6631.1 | 6703.3 | 6784.2 | 6998.8 | 7167.7 | 7345.4 | 7530.1 | 7563.6 | 7683.2 | 7716.6 |
| 7.5° | 6004.8 | 5997.8 | 6057.5 | 6154.3 | 6374.2 | 6608.3 | 6919.6 | 7287.4 | 7359.5 | 7628.7 | 7758.9 |
| 10° | 5566.7 | 5561.4 | 5624.8 | 5725.0 | 5934.4 | 6156.1 | 6507.9 | 7011.1 | 7113.2 | 7542.5 | 7799.4 |
| 12.5° | 5242.9 | 5244.7 | 5308.1 | 5418.9 | 5631.8 | 5855.3 | 6212.4 | 6743.7 | 6873.9 | 7442.2 | 7841.5 |
| 15° | 5028.3 | 5042.4 | 5093.4 | 5211.3 | 5418.9 | 5642.3 | 5992.4 | 6543.1 | 6689.2 | 7363.0 | 7889.1 |
| 17.5° | 4956.2 | 4979.0 | 4996.6 | 5082.8 | 5260.5 | 5484.0 | 5827.0 | 6395.4 | 6550.2 | 7308.5 | 7931.3 |
| 20° | 5023.0 | 5049.4 | 5016.0 | 5045.9 | 5158.5 | 5355.6 | 5696.9 | 6279.3 | 6437.5 | 7246.9 | 7936.6 |
| 22.5° | 5309.8 | 5334.5 | 5236.0 | 5149.7 | 5142.7 | 5262.3 | 5589.6 | 6187.7 | 6351.4 | 7201.2 | 7938.3 |
| 25° | 5814.8 | 5830.6 | 5665.2 | 5464.6 | 5269.3 | 5228.9 | 5513.9 | 6124.4 | 6298.6 | 7160.7 | 7905.0 |
| 27.5° | 6434.1 | 6446.3 | 6256.4 | 5960.8 | 5568.4 | 5308.1 | 5487.5 | 6087.5 | 6268.6 | 7125.5 | 7848.6 |
| 30° | 7187.0 | 7245.2 | 6990.0 | 6617.1 | 6045.2 | 5542.0 | 5540.3 | 6068.1 | 6235.3 | 7065.7 | 7737.8 |
| 32.5° | 7957.6 | 7982.3 | 7806.3 | 7428.2 | 6687.4 | 5953.8 | 5688.1 | 6082.2 | 6226.5 | 6993.5 | 7597.0 |
| 35° | 8738.9 | 8770.5 | 8656.2 | 8351.8 | 7565.3 | 6557.2 | 5976.6 | 6164.9 | 6281.0 | 6969.0 | 7498.5 |
| 37.5° | 9750.5 | 9792.7 | 9634.4 | 9282.5 | 8633.3 | 7375.4 | 6457.0 | 6372.5 | 6448.2 | 7039.3 | 7468.6 |
| 40° | 11349.7 | 11330.4 | 10867.7 | 10343.4 | 9801.5 | 8422.2 | 7143.1 | 6724.4 | 6768.4 | 7266.2 | 7560.1 |
| 42.5° | 13211.2 | 13163.7 | 12366.7 | 11543.3 | 11085.8 | 9688.9 | 8050.9 | 7334.9 | 7326.1 | 7713.2 | 7882.0 |
| 45° | 14696.1 | 14657.5 | 13939.5 | 12924.5 | 12558.5 | 11131.6 | 9224.5 | 8244.5 | 8179.4 | 8422.2 | 8476.7 |
| 47.5° | 15500.2 | 15501.9 | 15088.4 | 14259.8 | 14251.0 | 12964.9 | 10732.2 | 9560.5 | 9447.9 | 9562.2 | 9504.2 |
| 50° | 15218.6 | 15255.6 | 15211.6 | 14947.7 | 15795.7 | 15368.2 | 12701.0 | 11395.6 | 11168.6 | 11281.2 | 11057.7 |
| 52.5° | 13856.9 | 13904.4 | 14164.8 | 14569.5 | 16445.0 | 18273.0 | 15593.5 | 13675.7 | 13411.8 | 13371.3 | 13123.2 |
| 55° | 11443.0 | 11501.0 | 12032.5 | 13132.0 | 15904.8 | 20224.1 | 20157.2 | 16582.1 | 16161.7 | 15779.9 | 15674.4 |
| 57.5° | 7887.4 | 7984.0 | 8839.1 | 10471.8 | 14157.7 | 20813.5 | 25592.0 | 20725.5 | 19870.5 | 18536.9 | 18561.4 |
| 60° | 4445.9 | 4558.6 | 5566.7 | 7049.9 | 10631.9 | 20173.1 | 29726.5 | 27001.2 | 25196.1 | 21765.3 | 21948.3 |
| 62.5° | 2827.3 | 2948.8 | 3714.0 | 4898.1 | 6379.5 | 16724.7 | 31420.9 | 35726.0 | 33433.5 | 25745.0 | 25924.5 |
| 65° | 2289.0 | 2341.7 | 2702.4 | 4043.1 | 4632.4 | 10076.0 | 30134.7 | 42913.1 | 42058.0 | 30796.2 | 29958.8 |
| 67.5° | 2234.4 | 2252.0 | 2438.5 | 3393.8 | 4442.5 | 5663.5 | 24036.7 | 44257.3 | 45205.6 | 35513.2 | 31638.9 |
| 70° | 2208.0 | 2269.6 | 2748.2 | 3239.1 | 4254.1 | 4776.8 | 14444.6 | 40573.1 | 42070.4 | 36746.4 | 29402.8 |
| 72.5° | 1071.4 | 1068.0 | 1382.8 | 2929.3 | 4792.5 | 4954.5 | 7421.1 | 32828.3 | 34330.8 | 31836.1 | 24161.6 |
| 75° | 863.9 | 789.9 | 754.7 | 1073.2 | 4607.8 | 5116.3 | 4729.2 | 22588.7 | 23676.0 | 21344.8 | 14852.7 |
| 77.5° | 819.9 | 731.9 | 670.3 | 672.1 | 1947.6 | 5425.9 | 4006.1 | 12502.2 | 12818.9 | 9641.4 | 4069.5 |
| 80° | 679.1 | 598.2 | 554.2 | 624.6 | 943.1 | 5167.3 | 4331.6 | 5658.1 | 5192.0 | 2368.1 | 1354.7 |
| 82.5° | 471.5 | 429.3 | 417.0 | 524.3 | 754.7 | 3682.4 | 5037.1 | 3040.2 | 2549.3 | 1185.8 | 835.8 |
| 85° | 300.8 | 256.9 | 285.0 | 381.8 | 587.6 | 1699.5 | 5188.4 | 2369.9 | 1884.3 | 753.0 | 471.5 |
| 87.5° | 139.0 | 112.6 | 140.8 | 211.1 | 383.5 | 585.8 | 4936.9 | 2661.9 | 1940.6 | 397.6 | 297.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P191094

CATALOG NUMBER: GAN-AF-06-LED-U-SL2

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7695.6 | 7695.6 | 7695.6 | 7695.6 | 7695.6 | 7695.6 | 7695.6 | 7695.6 | 7695.6 | 7695.6 | 7695.6 |
| 2.5° | 7699.0 | 7665.6 | 7639.2 | 7590.0 | 7535.5 | 7482.7 | 7435.1 | 7375.4 | 7357.8 | 7341.9 | 7366.6 |
| 5° | 7723.7 | 7690.2 | 7593.5 | 7442.2 | 7275.0 | 7118.5 | 6961.9 | 6828.2 | 6745.4 | 6699.7 | 6726.1 |
| 7.5° | 7760.6 | 7713.2 | 7512.6 | 7234.6 | 6933.8 | 6659.3 | 6376.1 | 6149.1 | 5981.9 | 5902.7 | 5925.6 |
| 10° | 7794.1 | 7702.6 | 7375.4 | 6958.3 | 6518.5 | 6110.3 | 5663.5 | 5294.0 | 5019.5 | 4875.3 | 4910.5 |
| 12.5° | 7808.2 | 7662.1 | 7183.6 | 6613.5 | 6010.0 | 5411.8 | 4753.9 | 4201.4 | 3807.3 | 3663.1 | 3633.1 |
| 15° | 7822.2 | 7616.4 | 6972.4 | 6221.2 | 5396.1 | 4549.8 | 3627.9 | 2966.4 | 2639.1 | 2566.9 | 2551.1 |
| 17.5° | 7825.8 | 7537.2 | 6733.2 | 5795.4 | 4676.4 | 3524.1 | 2480.8 | 2060.2 | 2062.0 | 2178.1 | 2192.2 |
| 20° | 7788.7 | 7419.4 | 6442.9 | 5265.8 | 3814.4 | 2436.8 | 1703.1 | 1631.0 | 1896.7 | 2186.9 | 2222.1 |
| 22.5° | 7704.4 | 7262.7 | 6113.9 | 4648.3 | 2827.3 | 1604.6 | 1317.8 | 1396.9 | 1740.0 | 2095.4 | 2135.9 |
| 25° | 7597.0 | 7072.7 | 5725.0 | 3932.2 | 1872.0 | 1147.1 | 1104.9 | 1201.7 | 1433.9 | 1671.4 | 1694.3 |
| 27.5° | 7451.0 | 6847.5 | 5288.7 | 3112.3 | 1215.8 | 944.8 | 972.9 | 1038.0 | 1133.0 | 1238.6 | 1249.1 |
| 30° | 7262.7 | 6578.3 | 4822.5 | 2269.6 | 918.4 | 849.8 | 890.3 | 925.5 | 965.9 | 1025.7 | 1031.0 |
| 32.5° | 7046.3 | 6319.7 | 4344.0 | 1567.6 | 814.6 | 800.6 | 832.2 | 849.8 | 881.5 | 918.4 | 921.9 |
| 35° | 6865.1 | 6073.4 | 3847.7 | 1108.4 | 770.6 | 763.5 | 784.7 | 791.8 | 821.6 | 862.1 | 865.6 |
| 37.5° | 6761.3 | 5872.9 | 3335.7 | 893.8 | 740.7 | 730.2 | 742.5 | 742.5 | 784.7 | 844.5 | 853.3 |
| 40° | 6768.4 | 5762.0 | 2823.9 | 807.5 | 716.1 | 701.9 | 703.8 | 703.8 | 758.3 | 823.4 | 828.7 |
| 42.5° | 6960.2 | 5790.1 | 2369.9 | 774.2 | 696.7 | 680.9 | 672.1 | 677.4 | 723.1 | 765.4 | 768.8 |
| 45° | 7410.6 | 5989.0 | 1944.1 | 753.0 | 677.4 | 672.1 | 652.7 | 651.0 | 668.6 | 687.9 | 687.9 |
| 47.5° | 8149.4 | 6381.3 | 1655.5 | 739.0 | 661.5 | 659.8 | 636.9 | 614.0 | 612.2 | 619.3 | 619.3 |
| 50° | 9351.1 | 7056.9 | 1462.0 | 723.1 | 651.0 | 636.9 | 610.5 | 575.3 | 563.0 | 568.2 | 568.2 |
| 52.5° | 11152.7 | 8262.1 | 1388.1 | 701.9 | 628.1 | 605.2 | 575.3 | 540.1 | 529.6 | 531.3 | 531.3 |
| 55° | 13515.5 | 10112.9 | 1377.6 | 677.4 | 603.4 | 566.5 | 541.9 | 515.5 | 503.2 | 506.7 | 506.7 |
| 57.5° | 16402.7 | 12672.8 | 1565.8 | 638.6 | 570.1 | 527.8 | 513.7 | 496.1 | 487.3 | 492.7 | 490.9 |
| 60° | 19912.7 | 16022.7 | 2322.4 | 598.2 | 536.6 | 492.7 | 492.7 | 478.5 | 471.5 | 476.8 | 475.1 |
| 62.5° | 23955.8 | 19870.5 | 3265.5 | 568.2 | 501.5 | 464.5 | 471.5 | 464.5 | 457.5 | 460.9 | 459.2 |
| 65° | 27541.4 | 22377.6 | 3057.8 | 545.4 | 466.3 | 438.1 | 450.4 | 446.9 | 441.6 | 445.1 | 443.3 |
| 67.5° | 27645.1 | 21448.6 | 1717.1 | 520.8 | 432.8 | 411.7 | 429.3 | 427.5 | 424.0 | 427.5 | 425.8 |
| 70° | 24671.8 | 18111.0 | 967.7 | 475.1 | 397.6 | 380.0 | 404.7 | 402.9 | 399.4 | 406.4 | 404.7 |
| 72.5° | 19766.7 | 13142.6 | 707.3 | 418.7 | 362.4 | 346.6 | 374.7 | 373.0 | 373.0 | 383.5 | 378.3 |
| 75° | 11374.4 | 6763.0 | 564.8 | 359.0 | 325.5 | 313.1 | 337.8 | 339.5 | 343.1 | 357.1 | 346.6 |
| 77.5° | 3242.5 | 2107.8 | 460.9 | 304.3 | 279.8 | 274.5 | 299.1 | 302.6 | 304.3 | 320.2 | 306.2 |
| 80° | 1205.1 | 971.2 | 380.0 | 255.1 | 228.7 | 230.5 | 253.4 | 258.6 | 260.3 | 276.2 | 258.6 |
| 82.5° | 768.8 | 640.4 | 307.9 | 197.0 | 179.4 | 177.7 | 205.8 | 212.9 | 212.9 | 214.6 | 204.1 |
| 85° | 448.7 | 383.5 | 232.2 | 142.5 | 126.6 | 121.4 | 153.0 | 165.4 | 160.1 | 156.6 | 149.6 |
| 87.5° | 300.8 | 263.9 | 142.5 | 79.2 | 68.6 | 65.1 | 89.7 | 98.5 | 95.0 | 89.7 | 84.5 |
| 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)