

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: P192914

Luminaire Tested: **GAN-AF-06-LED-U-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34435.2 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-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

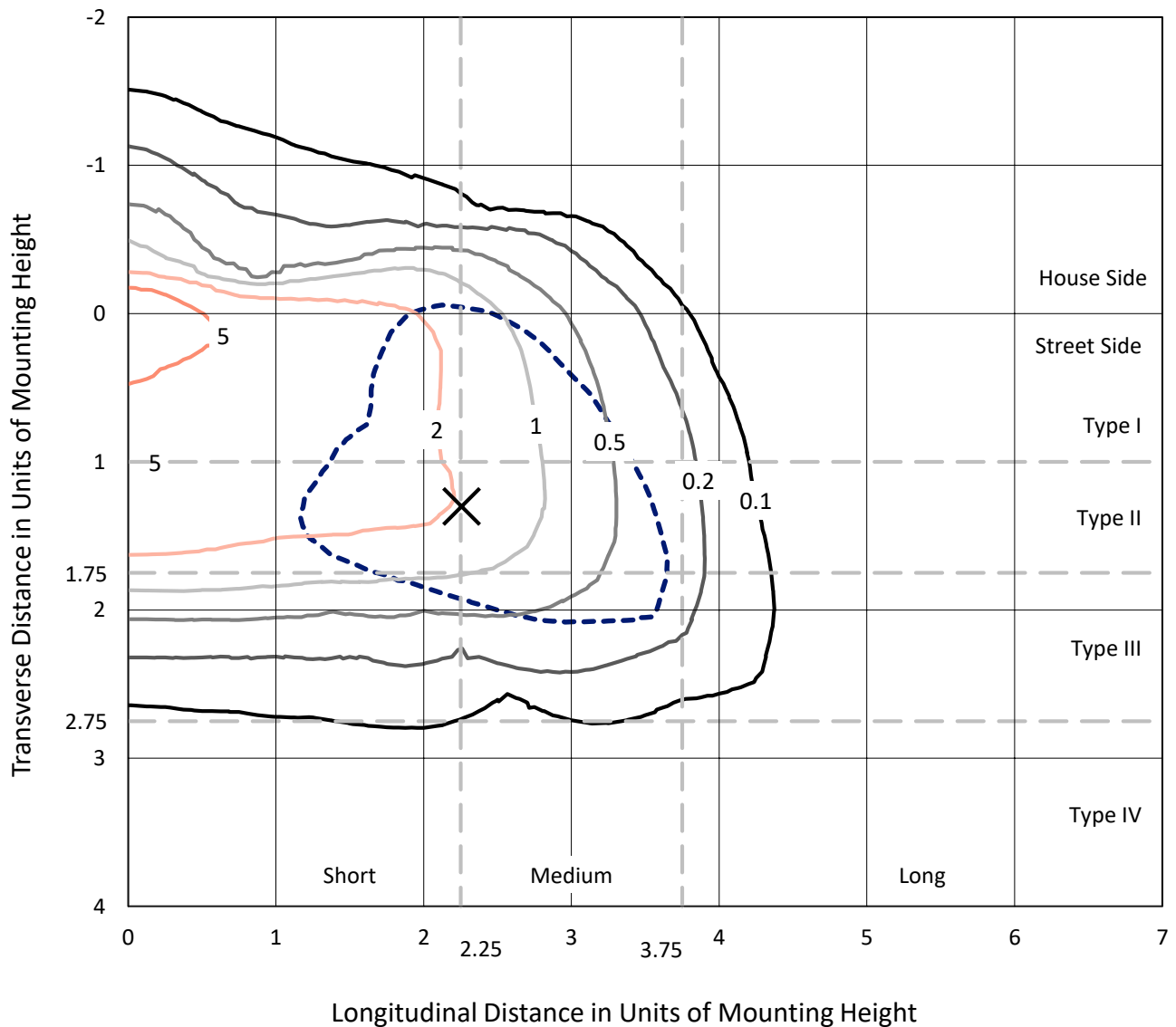


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

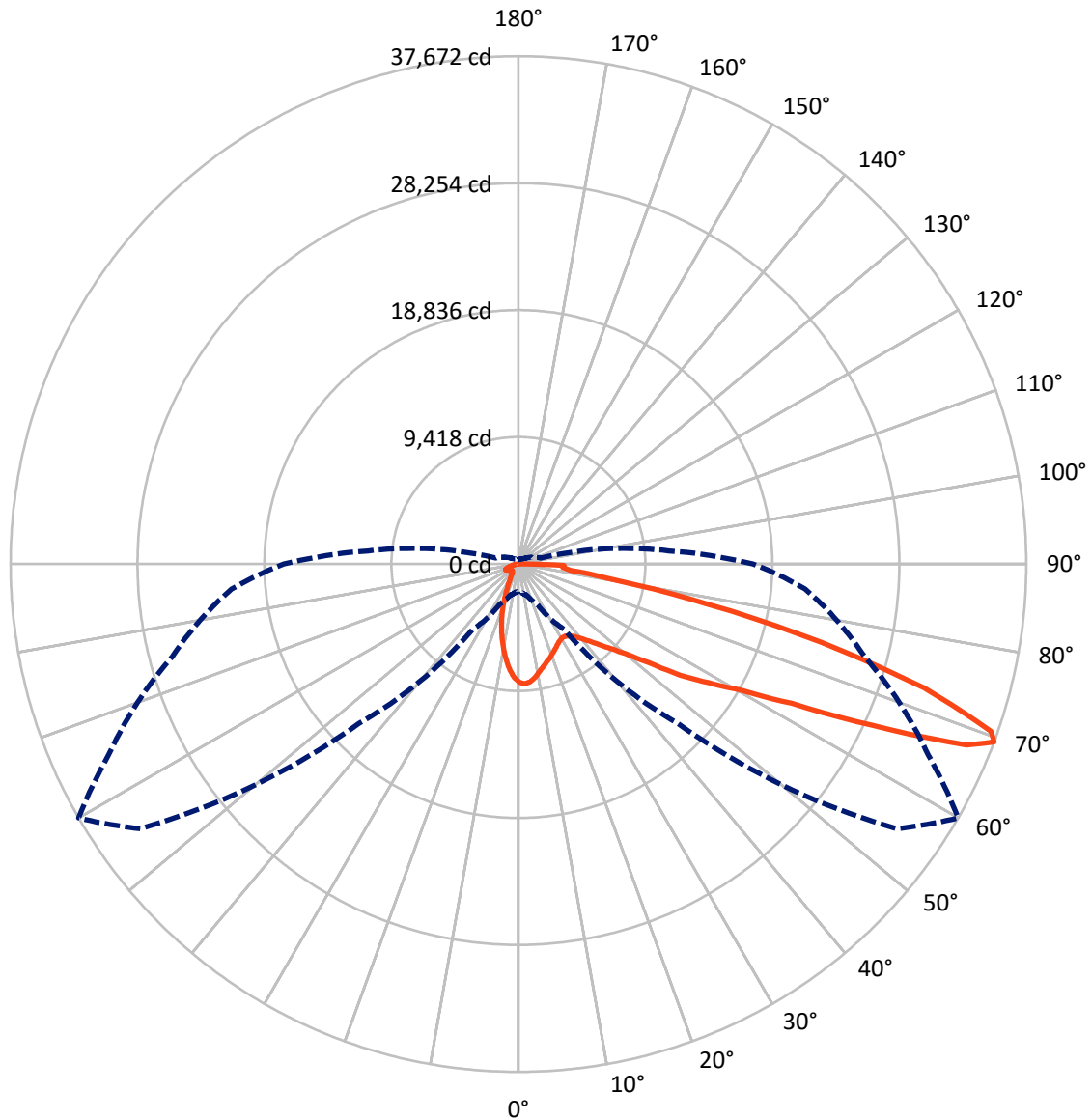


Based on 30 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4899.0 | 0.0 | 4899.0 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 29536.2 | 0.0 | 29536.2 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 34435.2 | 0.0 | 34435.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 741.9 | 2.2 |
| 10°-20° | 1580.7 | 4.6 |
| 20°-30° | 2014.1 | 5.8 |
| 30°-40° | 2768.9 | 8.0 |
| 40°-50° | 4492.8 | 13.0 |
| 50°-60° | 7205.3 | 20.9 |
| 60°-70° | 9589.8 | 27.8 |
| 70°-80° | 5177.7 | 15.0 |
| 80°-90° | 863.9 | 2.5 |
| 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° | 34435.2 | 100.0 |
| 0°-180° | 34435.2 | 100.0 |



REPORT NUMBER: P192914

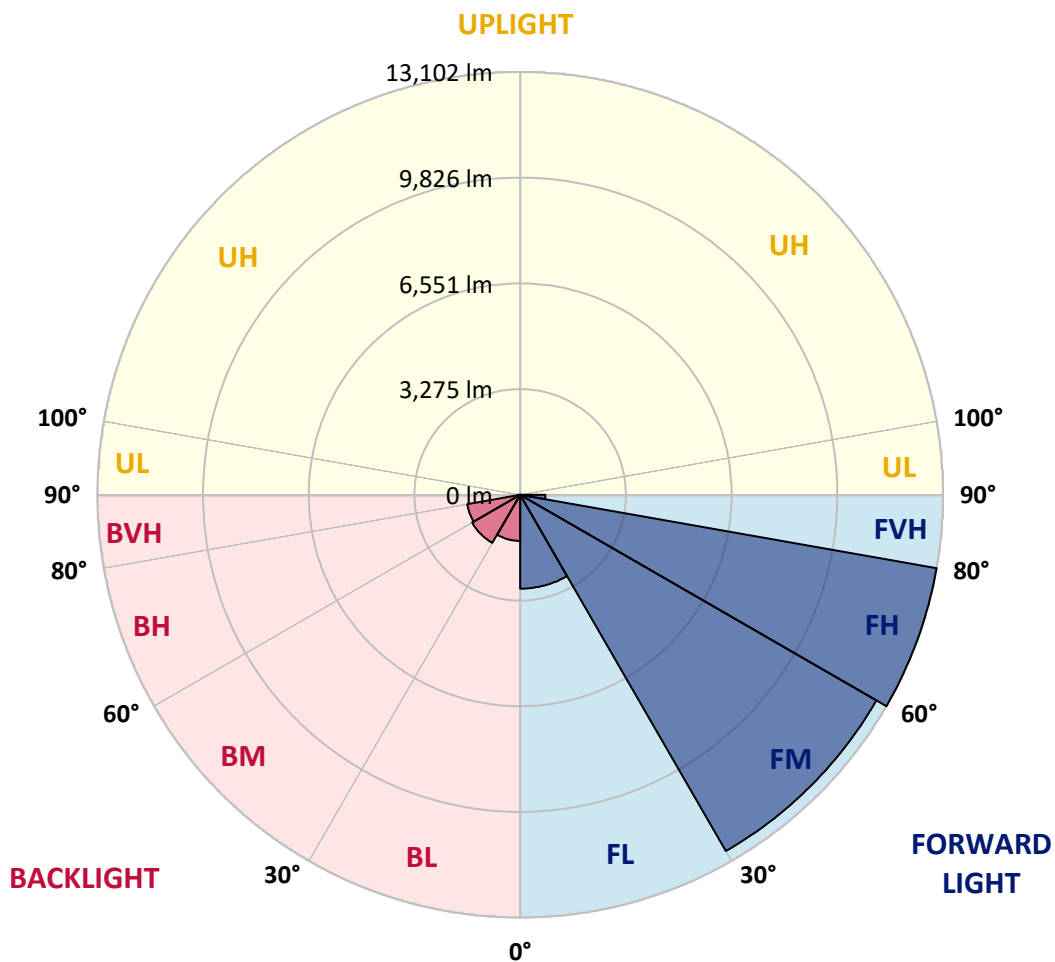
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2907.6 | 8.4 | | | |
| FM (30°-60°) | 12745.9 | 37.0 | | | |
| FH (60°-80°) | 13101.9 | 38.0 | | | G5 |
| FVH (80°-90°) | 780.7 | 2.3 | | | G5 |
| BL (0°-30°) | 1429.2 | 4.2 | B3/2500 | | |
| BM (30°-60°) | 1721.1 | 5.0 | B2/2500 | | |
| BH (60°-80°) | 1665.5 | 4.8 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 83.2 | 0.2 | | | 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 III Medium





REPORT NUMBER: P192914

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8774.6 | 8774.6 | 8774.6 | 8774.6 | 8774.6 | 8774.6 | 8774.6 | 8774.6 | 8774.6 | 8774.6 | 8774.6 |
| 2.5° | 8954.3 | 8974.2 | 8966.0 | 8960.9 | 8975.8 | 8952.6 | 8904.4 | 8889.5 | 8866.1 | 8811.2 | 8718.1 |
| 5° | 8618.3 | 8678.1 | 8674.8 | 8719.8 | 8794.6 | 8814.5 | 8792.9 | 8796.3 | 8753.0 | 8684.8 | 8530.1 |
| 7.5° | 8037.7 | 8062.7 | 8076.0 | 8174.1 | 8310.5 | 8420.3 | 8513.5 | 8543.4 | 8523.5 | 8465.2 | 8265.6 |
| 10° | 7438.9 | 7458.8 | 7490.5 | 7605.2 | 7778.2 | 7929.6 | 8106.0 | 8207.3 | 8250.6 | 8240.7 | 8017.8 |
| 12.5° | 6924.9 | 6944.8 | 6986.5 | 7116.2 | 7322.4 | 7508.8 | 7764.9 | 7891.4 | 7994.5 | 8056.0 | 7816.5 |
| 15° | 6464.1 | 6507.4 | 6547.3 | 6696.9 | 6928.2 | 7172.8 | 7462.2 | 7621.8 | 7781.6 | 7919.6 | 7638.6 |
| 17.5° | 6104.9 | 6148.0 | 6171.4 | 6307.7 | 6553.9 | 6853.4 | 7192.6 | 7380.7 | 7580.3 | 7806.5 | 7462.2 |
| 20° | 5896.8 | 5916.8 | 5906.9 | 5983.4 | 6204.7 | 6522.3 | 6924.9 | 7142.9 | 7384.0 | 7700.0 | 7285.9 |
| 22.5° | 5838.7 | 5840.4 | 5803.8 | 5795.4 | 5938.5 | 6206.3 | 6638.8 | 6903.2 | 7199.3 | 7630.2 | 7134.5 |
| 25° | 5980.1 | 5975.1 | 5875.3 | 5793.8 | 5808.8 | 5965.1 | 6362.6 | 6670.4 | 7044.6 | 7615.3 | 7018.0 |
| 27.5° | 6294.4 | 6309.4 | 6161.3 | 6008.2 | 5857.0 | 5851.9 | 6153.1 | 6477.4 | 6918.2 | 7683.4 | 6968.1 |
| 30° | 6735.3 | 6760.2 | 6602.2 | 6407.5 | 6123.1 | 5888.5 | 6071.5 | 6362.6 | 6840.0 | 7824.8 | 6959.9 |
| 32.5° | 7217.6 | 7244.2 | 7124.5 | 6919.9 | 6547.3 | 6114.8 | 6128.2 | 6372.6 | 6836.7 | 8022.8 | 7016.4 |
| 35° | 7731.6 | 7761.6 | 7700.0 | 7527.1 | 7112.9 | 6532.3 | 6344.3 | 6533.9 | 6944.8 | 8325.4 | 7167.7 |
| 37.5° | 8305.6 | 8352.1 | 8368.7 | 8204.1 | 7761.6 | 7082.9 | 6698.6 | 6840.0 | 7189.4 | 8746.3 | 7445.6 |
| 40° | 9132.2 | 9197.1 | 9192.1 | 8956.0 | 8505.2 | 7826.5 | 7246.0 | 7282.5 | 7570.2 | 9308.6 | 7889.7 |
| 42.5° | 10715.8 | 10729.1 | 10314.9 | 9801.0 | 9323.5 | 8608.3 | 7891.4 | 7861.4 | 8095.9 | 10020.5 | 8543.4 |
| 45° | 12730.3 | 12675.3 | 11753.8 | 10760.7 | 10178.6 | 9506.5 | 8731.4 | 8584.9 | 8763.0 | 10888.9 | 9361.8 |
| 47.5° | 14402.0 | 14275.6 | 13111.2 | 11740.6 | 11083.5 | 10483.0 | 9717.7 | 9461.7 | 9559.7 | 11873.6 | 10419.7 |
| 50° | 14982.6 | 14887.7 | 13922.9 | 12555.6 | 11940.2 | 11674.1 | 10932.1 | 10569.5 | 10596.1 | 13048.0 | 11659.0 |
| 52.5° | 14857.8 | 14844.5 | 14200.8 | 13092.9 | 12742.0 | 12925.0 | 12652.1 | 12161.4 | 11901.8 | 14352.1 | 12996.4 |
| 55° | 14563.3 | 14591.7 | 14358.8 | 13718.4 | 13658.5 | 14132.5 | 14899.3 | 14536.7 | 13729.9 | 15667.9 | 14378.7 |
| 57.5° | 13540.4 | 13613.6 | 14125.9 | 14505.1 | 15133.9 | 15839.2 | 16709.2 | 16606.1 | 15697.9 | 17090.2 | 16022.3 |
| 60° | 10908.8 | 11078.5 | 12452.5 | 14352.1 | 16652.6 | 18858.3 | 19247.6 | 19008.1 | 17727.2 | 18855.1 | 18193.0 |
| 62.5° | 7643.4 | 7819.8 | 9453.3 | 12425.8 | 16403.1 | 22268.4 | 23785.4 | 22752.4 | 20641.6 | 21455.0 | 21002.6 |
| 65° | 4092.1 | 4176.9 | 5424.5 | 8621.5 | 13848.1 | 22972.1 | 30417.6 | 28845.6 | 25256.0 | 24660.5 | 23406.2 |
| 67.5° | 2257.3 | 2303.8 | 2781.3 | 4353.2 | 8869.4 | 20229.1 | 34642.8 | 35830.4 | 31023.1 | 26794.6 | 22968.7 |
| 69° | 2041.1 | 2084.3 | 2397.0 | 3296.9 | 5935.2 | 16725.9 | 34230.2 | 37671.8 | 33551.5 | 26583.4 | 21351.9 |
| 70° | 1996.1 | 2036.0 | 2317.2 | 3039.0 | 4804.0 | 13786.6 | 32847.8 | 37201.0 | 34153.7 | 25826.4 | 19941.2 |
| 72.5° | 1796.5 | 1839.7 | 2112.5 | 2729.8 | 4105.3 | 6873.3 | 26019.4 | 31453.9 | 31008.1 | 22393.1 | 15125.7 |
| 75° | 1675.1 | 1715.1 | 2177.4 | 2673.1 | 3930.7 | 4349.8 | 17153.3 | 23181.6 | 22794.1 | 15664.6 | 8155.8 |
| 77.5° | 717.0 | 713.6 | 1009.7 | 2262.3 | 3988.9 | 4211.8 | 9217.1 | 14481.9 | 13212.7 | 6695.3 | 2342.1 |
| 80° | 479.1 | 470.8 | 479.1 | 665.4 | 3657.9 | 4235.1 | 4828.9 | 7350.8 | 5552.5 | 1706.7 | 1154.5 |
| 82.5° | 412.6 | 405.9 | 420.8 | 405.9 | 1285.9 | 4833.9 | 4105.3 | 3909.1 | 2639.9 | 969.7 | 572.2 |
| 85° | 277.8 | 266.1 | 362.6 | 364.3 | 607.2 | 4295.0 | 4624.4 | 3302.0 | 2135.8 | 575.6 | 282.8 |
| 87.5° | 133.1 | 129.8 | 211.3 | 257.9 | 355.9 | 1745.0 | 5188.2 | 3383.4 | 2154.1 | 294.5 | 134.7 |
| 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: P192914

CATALOG NUMBER: GAN-AF-06-LED-U-SL3-7030

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8774.6 | 8774.6 | 8774.6 | 8774.6 | 8774.6 | 8774.6 | 8774.6 | 8774.6 | 8774.6 | 8774.6 | 8774.6 |
| 2.5° | 8689.8 | 8621.5 | 8555.0 | 8475.2 | 8391.9 | 8298.9 | 8252.4 | 8205.7 | 8194.1 | 8180.8 | 8134.3 |
| 5° | 8450.2 | 8353.8 | 8187.5 | 8004.5 | 7811.5 | 7623.6 | 7480.4 | 7390.7 | 7322.4 | 7287.5 | 7226.0 |
| 7.5° | 8140.9 | 7999.4 | 7708.4 | 7392.3 | 7068.0 | 6771.9 | 6515.6 | 6354.3 | 6201.3 | 6129.8 | 6048.3 |
| 10° | 7846.5 | 7635.1 | 7182.7 | 6716.9 | 6251.2 | 5803.8 | 5382.8 | 5085.2 | 4820.6 | 4672.6 | 4567.8 |
| 12.5° | 7593.6 | 7304.1 | 6677.1 | 6046.6 | 5407.8 | 4770.7 | 4140.3 | 3644.6 | 3230.4 | 3012.5 | 2901.1 |
| 15° | 7347.3 | 6998.0 | 6196.3 | 5396.2 | 4576.1 | 3709.5 | 2881.0 | 2318.8 | 1976.2 | 1839.7 | 1793.2 |
| 17.5° | 7124.5 | 6677.1 | 5713.9 | 4740.8 | 3717.8 | 2669.9 | 1936.3 | 1626.9 | 1495.4 | 1450.5 | 1435.5 |
| 20° | 6883.4 | 6352.7 | 5213.2 | 4055.4 | 2822.8 | 1866.3 | 1512.0 | 1375.7 | 1322.5 | 1309.2 | 1302.5 |
| 22.5° | 6650.4 | 6033.3 | 4734.1 | 3321.9 | 2027.8 | 1440.6 | 1299.1 | 1242.6 | 1234.3 | 1245.9 | 1245.9 |
| 25° | 6452.5 | 5747.1 | 4216.9 | 2555.0 | 1488.7 | 1212.7 | 1162.7 | 1149.4 | 1181.1 | 1224.2 | 1232.6 |
| 27.5° | 6304.4 | 5512.6 | 3666.2 | 1886.4 | 1186.0 | 1054.6 | 1052.9 | 1074.6 | 1152.8 | 1235.9 | 1252.5 |
| 30° | 6202.9 | 5289.7 | 3077.4 | 1360.8 | 994.7 | 928.1 | 954.8 | 1001.4 | 1116.2 | 1234.3 | 1265.9 |
| 32.5° | 6151.4 | 5125.1 | 2463.6 | 1052.9 | 851.6 | 815.1 | 860.0 | 916.5 | 1029.7 | 1139.5 | 1181.1 |
| 35° | 6191.2 | 5003.6 | 1884.7 | 878.3 | 751.9 | 723.7 | 770.2 | 825.0 | 891.5 | 938.2 | 969.7 |
| 37.5° | 6341.0 | 4955.4 | 1422.2 | 786.7 | 683.6 | 657.0 | 693.7 | 725.3 | 751.9 | 765.2 | 780.1 |
| 40° | 6663.7 | 5007.0 | 1139.5 | 740.2 | 645.4 | 612.2 | 627.1 | 638.7 | 655.4 | 668.6 | 675.3 |
| 42.5° | 7139.4 | 5161.6 | 1021.3 | 721.9 | 625.4 | 577.2 | 573.9 | 578.8 | 600.5 | 625.4 | 630.4 |
| 45° | 7804.8 | 5434.4 | 1013.1 | 733.5 | 615.4 | 548.9 | 533.9 | 540.7 | 573.9 | 612.2 | 618.9 |
| 47.5° | 8654.9 | 5850.3 | 1079.6 | 768.5 | 623.8 | 533.9 | 509.0 | 517.4 | 558.9 | 610.4 | 618.9 |
| 50° | 9684.5 | 6430.9 | 1191.0 | 820.1 | 660.4 | 537.3 | 500.7 | 505.7 | 548.9 | 605.6 | 613.8 |
| 52.5° | 10900.5 | 7254.3 | 1312.4 | 869.9 | 698.6 | 558.9 | 507.4 | 495.7 | 535.6 | 585.5 | 595.5 |
| 55° | 12252.9 | 8310.5 | 1437.2 | 914.9 | 718.6 | 585.5 | 520.6 | 482.4 | 510.7 | 552.3 | 560.6 |
| 57.5° | 13913.0 | 9787.7 | 1653.4 | 958.1 | 731.9 | 603.8 | 533.9 | 469.0 | 479.1 | 509.0 | 515.7 |
| 60° | 16160.3 | 11876.9 | 2034.4 | 1029.7 | 761.9 | 610.4 | 532.3 | 457.5 | 447.4 | 464.2 | 467.4 |
| 62.5° | 18853.3 | 14145.9 | 2352.2 | 1119.5 | 811.8 | 615.4 | 522.4 | 449.2 | 420.8 | 420.8 | 424.2 |
| 65° | 20451.9 | 14753.1 | 2175.8 | 1194.3 | 853.4 | 610.4 | 510.7 | 440.9 | 400.9 | 382.6 | 384.3 |
| 67.5° | 19096.3 | 12974.7 | 1864.7 | 1209.3 | 851.6 | 587.2 | 492.4 | 425.9 | 380.9 | 352.7 | 350.9 |
| 69° | 17397.9 | 11194.9 | 1724.9 | 1169.4 | 811.8 | 557.2 | 469.0 | 409.1 | 365.9 | 336.0 | 334.4 |
| 70° | 16028.9 | 10108.6 | 1633.5 | 1126.1 | 768.5 | 535.6 | 450.8 | 394.2 | 354.3 | 326.0 | 322.8 |
| 72.5° | 11654.0 | 6623.9 | 1395.6 | 968.1 | 633.8 | 449.2 | 389.3 | 346.1 | 316.1 | 299.4 | 296.1 |
| 75° | 5823.7 | 3158.9 | 1132.8 | 785.1 | 485.7 | 359.4 | 319.4 | 289.4 | 274.5 | 271.2 | 269.5 |
| 77.5° | 1912.9 | 1447.1 | 810.0 | 585.5 | 361.0 | 281.2 | 257.9 | 236.2 | 232.8 | 242.9 | 239.5 |
| 80° | 1051.3 | 841.8 | 513.9 | 387.6 | 246.2 | 206.3 | 202.9 | 191.3 | 196.3 | 212.9 | 209.6 |
| 82.5° | 535.6 | 437.5 | 317.7 | 232.8 | 166.3 | 148.0 | 161.3 | 154.7 | 161.3 | 176.4 | 174.7 |
| 85° | 264.5 | 239.5 | 201.2 | 141.4 | 109.8 | 94.8 | 114.8 | 119.7 | 123.1 | 134.7 | 134.7 |
| 87.5° | 153.1 | 141.4 | 106.4 | 66.5 | 54.8 | 49.9 | 66.5 | 64.9 | 76.5 | 83.1 | 81.5 |
| 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)