

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: P194395

Luminaire Tested: **GAN-AF-07-LED-U-SL2-7060-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-SL2-7060-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34873 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 391
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

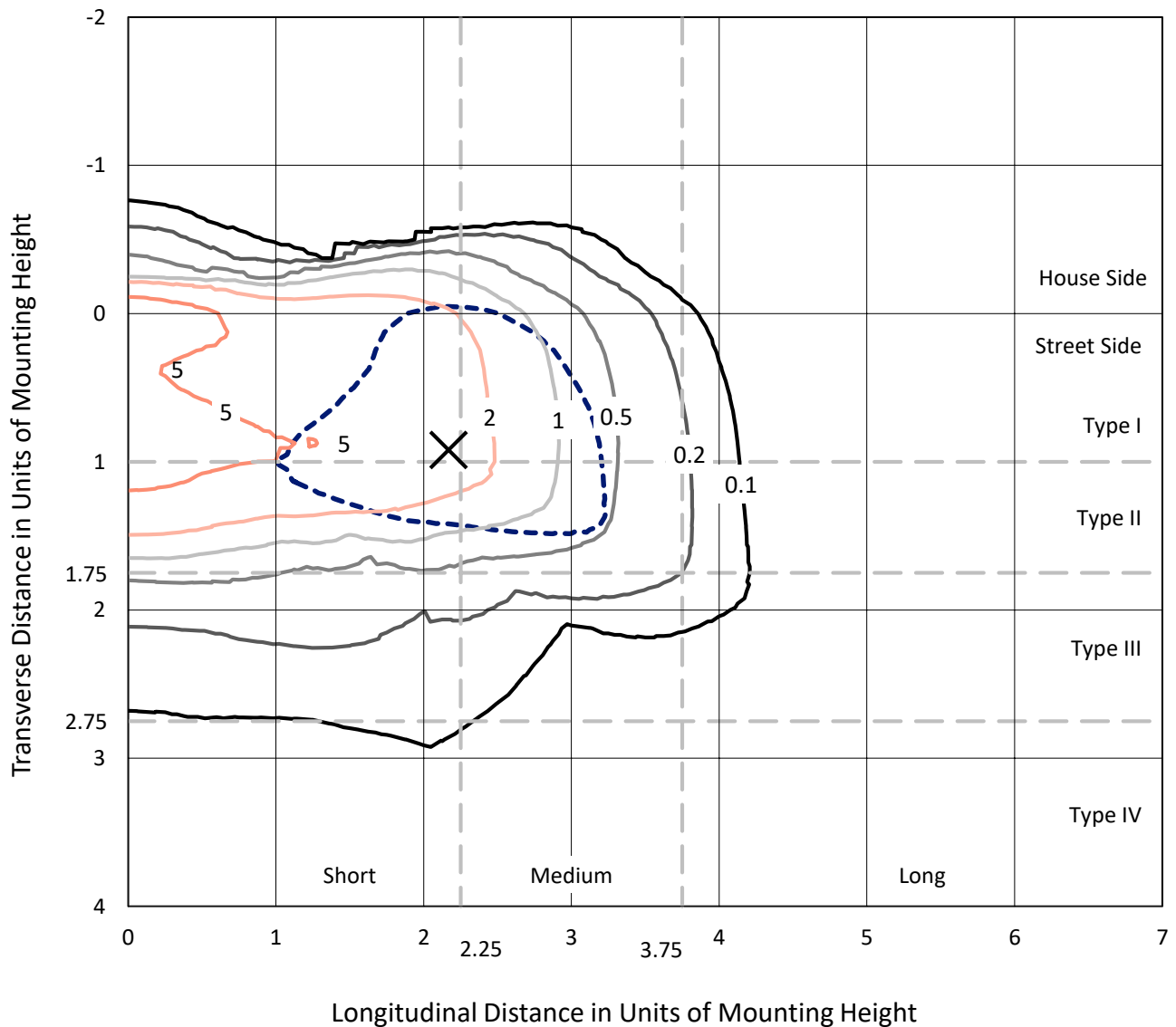


REPORT NUMBER: P194395

CATALOG NUMBER: GAN-AF-07-LED-U-SL2-7060-HSS-ADJ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

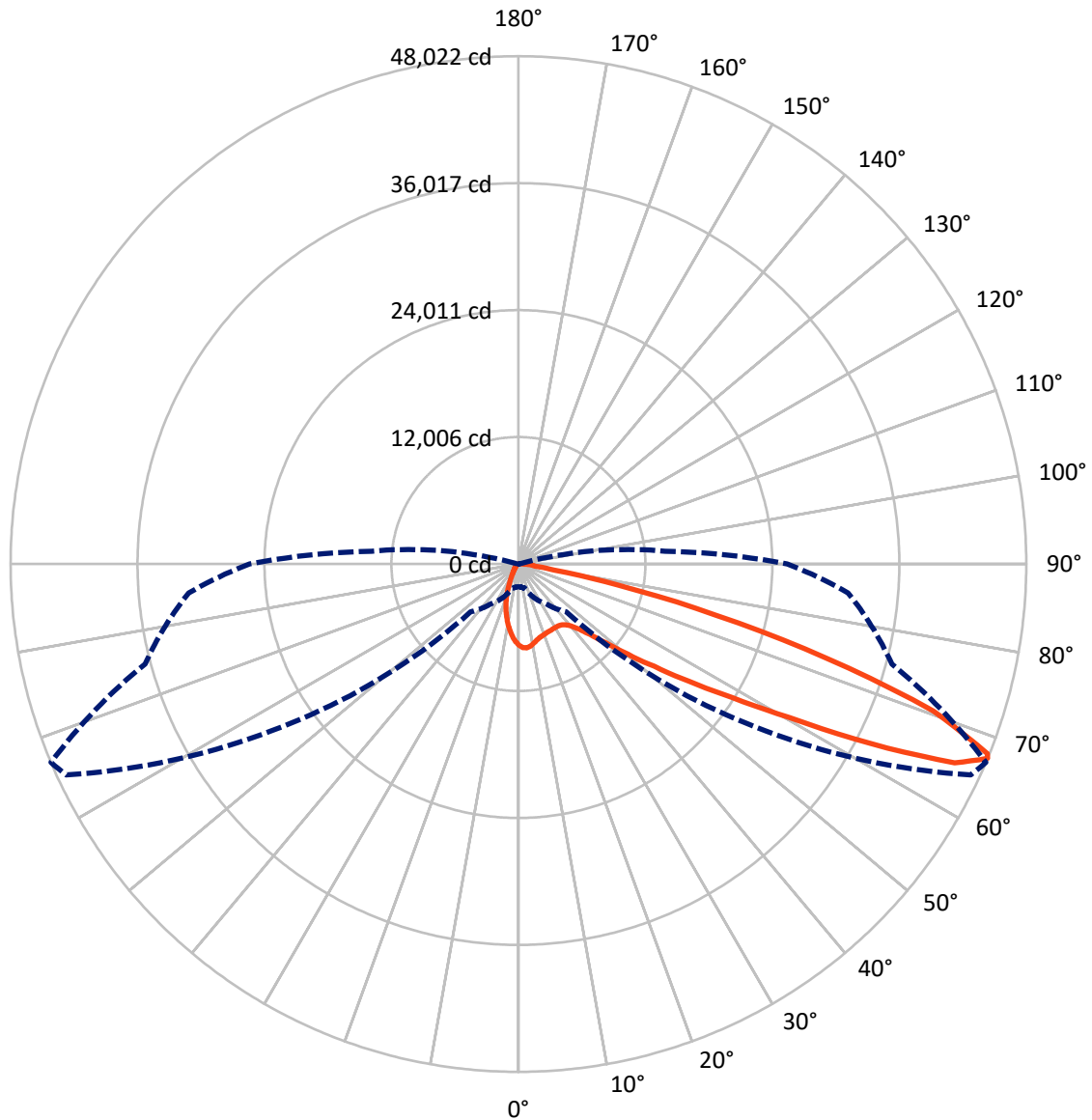


Based on 30 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P194395

CATALOG NUMBER: GAN-AF-07-LED-U-SL2-7060-HSS-ADJ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P194395

CATALOG NUMBER: GAN-AF-07-LED-U-SL2-7060-HSS-ADJ

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3620.9 | 0.0 | 3620.9 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 31252.1 | 0.0 | 31252.1 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 34873.0 | 0.0 | 34873.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 625.8 | 1.8 |
| 10°-20° | 1331.9 | 3.8 |
| 20°-30° | 1936.5 | 5.6 |
| 30°-40° | 3021.0 | 8.7 |
| 40°-50° | 5351.5 | 15.3 |
| 50°-60° | 8468.3 | 24.3 |
| 60°-70° | 9699.2 | 27.8 |
| 70°-80° | 4023.2 | 11.5 |
| 80°-90° | 415.6 | 1.2 |
| 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° | 34873.0 | 100.0 |
| 0°-180° | 34873.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P194395

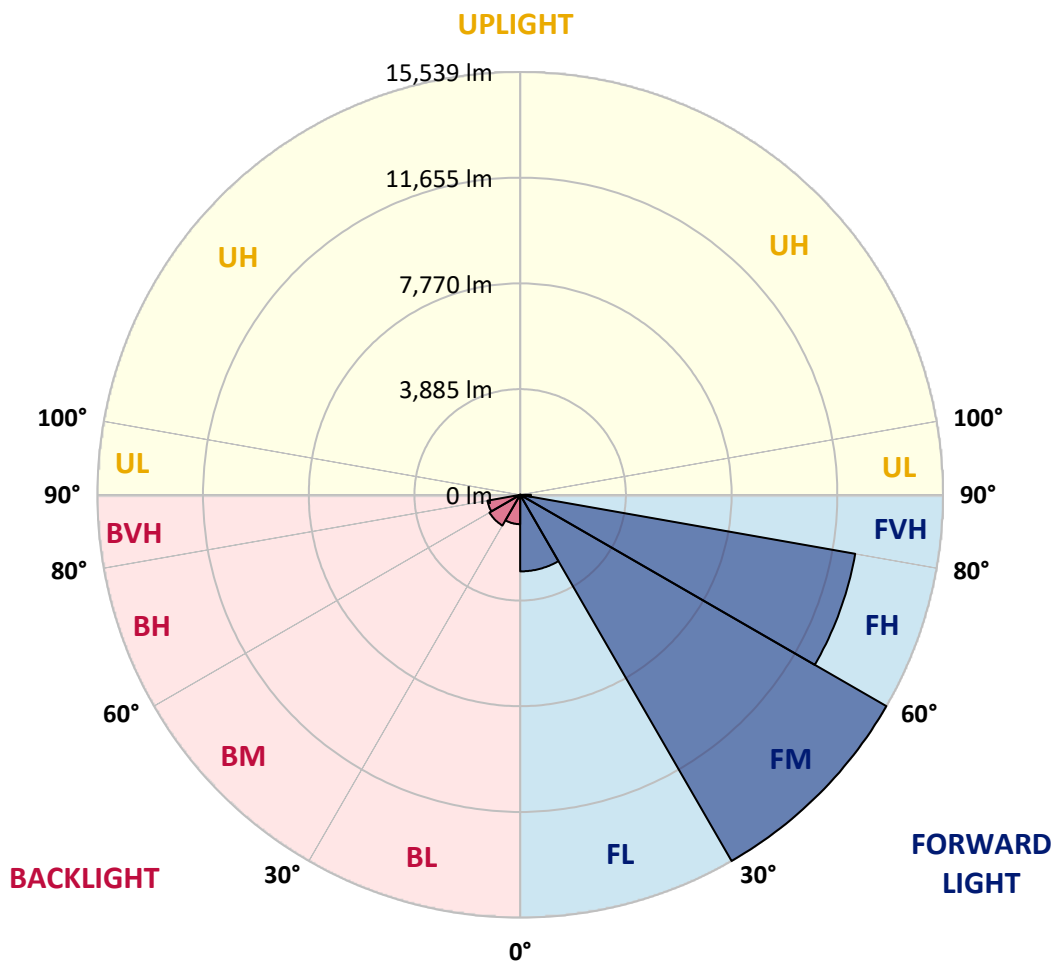
CATALOG NUMBER: GAN-AF-07-LED-U-SL2-7060-HSS-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2813.7 | 8.1 | | | |
| FM (30°-60°) | 15539.5 | 44.6 | | | |
| FH (60°-80°) | 12502.1 | 35.9 | | | G5 |
| FVH (80°-90°) | 396.9 | 1.1 | | | G3/500 |
| BL (0°-30°) | 1080.5 | 3.1 | B3/2500 | | |
| BM (30°-60°) | 1301.3 | 3.7 | B2/2500 | | |
| BH (60°-80°) | 1220.4 | 3.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 18.7 | 0.1 | | | 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 II Short





REPORT NUMBER: P194395

CATALOG NUMBER: GAN-AF-07-LED-U-SL2-7060-HSS-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7690.8 | 7690.8 | 7690.8 | 7690.8 | 7690.8 | 7690.8 | 7690.8 | 7690.8 | 7690.8 | 7690.8 | 7690.8 |
| 2.5° | 7951.1 | 7967.4 | 7965.4 | 7977.6 | 8006.1 | 8008.1 | 7979.6 | 7924.7 | 7912.5 | 7841.3 | 7717.2 |
| 5° | 7332.8 | 7379.6 | 7408.0 | 7524.0 | 7654.2 | 7810.8 | 7928.8 | 7971.5 | 7965.4 | 7914.5 | 7727.4 |
| 7.5° | 6627.0 | 6673.8 | 6706.3 | 6842.6 | 7015.5 | 7284.0 | 7591.1 | 7843.3 | 7865.7 | 7920.6 | 7719.3 |
| 10° | 6157.1 | 6165.2 | 6210.0 | 6340.2 | 6521.2 | 6795.8 | 7161.9 | 7603.3 | 7670.4 | 7871.8 | 7698.9 |
| 12.5° | 5770.6 | 5776.7 | 5835.7 | 5976.1 | 6169.3 | 6445.9 | 6830.4 | 7340.9 | 7444.7 | 7810.8 | 7694.9 |
| 15° | 5496.0 | 5518.4 | 5571.3 | 5717.7 | 5923.2 | 6197.8 | 6592.4 | 7147.7 | 7271.8 | 7788.4 | 7731.5 |
| 17.5° | 5404.5 | 5428.9 | 5445.2 | 5551.0 | 5738.1 | 6006.6 | 6411.4 | 7021.6 | 7161.9 | 7800.6 | 7802.7 |
| 20° | 5500.1 | 5518.4 | 5481.8 | 5508.2 | 5624.2 | 5864.2 | 6258.8 | 6913.8 | 7080.6 | 7814.9 | 7894.2 |
| 22.5° | 5856.1 | 5864.2 | 5764.5 | 5648.6 | 5628.2 | 5760.5 | 6138.8 | 6828.3 | 7007.3 | 7853.5 | 8002.0 |
| 25° | 6466.3 | 6452.0 | 6289.3 | 6039.1 | 5803.2 | 5742.2 | 6067.6 | 6775.5 | 6970.7 | 7894.2 | 8113.9 |
| 27.5° | 7202.6 | 7223.0 | 6999.2 | 6635.1 | 6185.6 | 5864.2 | 6057.4 | 6753.1 | 6954.5 | 7922.7 | 8211.5 |
| 30° | 8097.6 | 8126.1 | 7869.8 | 7412.1 | 6767.3 | 6165.2 | 6151.0 | 6749.0 | 6944.3 | 7904.4 | 8219.6 |
| 32.5° | 9010.9 | 9045.5 | 8844.1 | 8372.2 | 7544.3 | 6669.7 | 6362.5 | 6793.8 | 6964.6 | 7841.3 | 8172.9 |
| 35° | 9966.9 | 10015.7 | 9881.5 | 9476.7 | 8598.0 | 7397.9 | 6734.8 | 6930.0 | 7060.2 | 7835.2 | 8126.1 |
| 37.5° | 11287.0 | 11331.8 | 11079.5 | 10650.3 | 9873.3 | 8374.2 | 7332.8 | 7186.3 | 7286.0 | 7932.8 | 8138.3 |
| 40° | 13258.0 | 13251.9 | 12601.0 | 11944.0 | 11274.8 | 9615.0 | 8172.9 | 7650.1 | 7701.0 | 8227.8 | 8288.8 |
| 42.5° | 15406.0 | 15395.8 | 14433.7 | 13435.0 | 12830.9 | 11142.6 | 9277.4 | 8451.5 | 8416.9 | 8770.9 | 8679.3 |
| 45° | 17061.7 | 17059.7 | 16274.5 | 15149.7 | 14704.2 | 12895.9 | 10705.3 | 9566.2 | 9513.3 | 9653.7 | 9399.4 |
| 47.5° | 17767.5 | 17779.7 | 17385.1 | 16593.9 | 16781.0 | 15267.7 | 12505.4 | 11181.2 | 11101.9 | 11045.0 | 10658.5 |
| 50° | 17218.3 | 17242.7 | 17275.3 | 17120.7 | 18304.5 | 18455.0 | 14919.8 | 13457.3 | 13418.7 | 13164.4 | 12560.3 |
| 52.5° | 15424.3 | 15548.4 | 15930.8 | 16421.0 | 18833.4 | 21514.3 | 18705.2 | 16284.7 | 16077.2 | 15806.7 | 15141.5 |
| 55° | 12401.7 | 12538.0 | 13264.1 | 14454.0 | 18046.2 | 23523.9 | 24010.1 | 19929.7 | 19583.9 | 18776.4 | 17816.3 |
| 57.5° | 8207.4 | 8419.0 | 9472.6 | 10986.0 | 15759.9 | 23847.3 | 29302.7 | 24988.4 | 23784.3 | 21573.3 | 20491.1 |
| 60° | 4521.7 | 4725.1 | 5868.3 | 7239.2 | 11382.6 | 22248.6 | 32862.3 | 31574.7 | 29447.1 | 24699.6 | 23739.5 |
| 62.5° | 2784.6 | 2894.5 | 3738.6 | 5014.0 | 6826.3 | 17560.0 | 33598.6 | 39851.3 | 37388.1 | 28725.0 | 27663.2 |
| 65° | 2217.1 | 2263.9 | 2676.8 | 4098.6 | 4894.0 | 10444.9 | 31220.8 | 46161.0 | 45339.2 | 33598.6 | 31176.1 |
| 67° | 2152.0 | 2170.3 | 2365.6 | 3518.9 | 4613.3 | 6403.2 | 26156.0 | 47188.2 | 48022.1 | 36548.0 | 31285.9 |
| 67.5° | 2166.3 | 2186.6 | 2371.7 | 3358.2 | 4605.1 | 5884.5 | 24410.8 | 46783.4 | 47837.0 | 36781.9 | 30799.8 |
| 70° | 2089.0 | 2152.0 | 2715.5 | 3356.2 | 4379.3 | 4889.9 | 14618.8 | 40534.8 | 41631.1 | 34176.3 | 26133.6 |
| 72.5° | 740.4 | 744.5 | 1173.7 | 2715.5 | 4761.7 | 4942.8 | 7340.9 | 29715.6 | 30527.2 | 26143.8 | 18841.5 |
| 75° | 439.4 | 374.3 | 390.5 | 772.9 | 4550.2 | 4800.4 | 4234.9 | 18988.0 | 19291.0 | 14980.9 | 9541.8 |
| 77.5° | 303.1 | 264.4 | 272.6 | 341.7 | 1733.0 | 4733.3 | 3364.3 | 9901.8 | 9578.4 | 5254.0 | 2032.0 |
| 80° | 172.9 | 152.6 | 162.7 | 299.0 | 630.6 | 4415.9 | 3173.1 | 4015.2 | 3423.3 | 890.9 | 561.4 |
| 82.5° | 91.5 | 77.3 | 93.6 | 246.1 | 439.4 | 2752.1 | 3179.2 | 1940.5 | 1537.8 | 301.0 | 382.4 |
| 85° | 32.5 | 26.4 | 44.7 | 168.8 | 292.9 | 844.1 | 2947.4 | 1631.3 | 1281.5 | 146.5 | 290.9 |
| 87.5° | 6.1 | 6.1 | 18.3 | 69.2 | 118.0 | 258.3 | 1743.2 | 968.2 | 648.9 | 87.5 | 199.3 |
| 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: P194395

CATALOG NUMBER: GAN-AF-07-LED-U-SL2-7060-HSS-ADJ

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7690.8 | 7690.8 | 7690.8 | 7690.8 | 7690.8 | 7690.8 | 7690.8 | 7690.8 | 7690.8 | 7690.8 | 7690.8 |
| 2.5° | 7666.4 | 7578.9 | 7460.9 | 7316.5 | 7145.7 | 6995.1 | 6883.3 | 6767.3 | 6742.9 | 6702.2 | 6696.1 |
| 5° | 7615.5 | 7465.0 | 7172.1 | 6836.5 | 6478.5 | 6155.1 | 5892.7 | 5658.8 | 5555.0 | 5465.5 | 5455.4 |
| 7.5° | 7540.3 | 7314.5 | 6816.1 | 6275.1 | 5715.7 | 5207.2 | 4776.0 | 4470.9 | 4190.2 | 4055.9 | 4035.6 |
| 10° | 7452.8 | 7129.4 | 6415.4 | 5664.9 | 4891.9 | 4173.9 | 3533.2 | 2996.2 | 2670.7 | 2477.5 | 2453.1 |
| 12.5° | 7371.4 | 6948.4 | 6006.6 | 5032.3 | 4005.1 | 3045.0 | 2221.2 | 1708.6 | 1366.9 | 1228.6 | 1212.3 |
| 15° | 7332.8 | 6801.9 | 5624.2 | 4385.4 | 3077.5 | 1938.5 | 1214.3 | 939.7 | 827.9 | 795.3 | 793.3 |
| 17.5° | 7328.7 | 6677.8 | 5249.9 | 3716.2 | 2156.1 | 1126.9 | 791.2 | 722.1 | 699.7 | 691.6 | 691.6 |
| 20° | 7326.7 | 6559.8 | 4875.6 | 3022.6 | 1368.9 | 750.6 | 659.0 | 642.8 | 626.5 | 616.3 | 616.3 |
| 22.5° | 7349.1 | 6454.1 | 4485.1 | 2314.8 | 862.4 | 608.2 | 579.7 | 563.4 | 543.1 | 528.9 | 526.8 |
| 25° | 7371.4 | 6372.7 | 4086.4 | 1647.6 | 624.5 | 528.9 | 500.4 | 478.0 | 449.5 | 431.2 | 429.2 |
| 27.5° | 7375.5 | 6271.0 | 3659.3 | 1102.5 | 522.8 | 461.7 | 425.1 | 390.5 | 358.0 | 339.7 | 337.7 |
| 30° | 7314.5 | 6100.1 | 3185.3 | 744.5 | 461.7 | 400.7 | 351.9 | 315.3 | 284.8 | 270.5 | 270.5 |
| 32.5° | 7194.5 | 5888.6 | 2664.6 | 561.4 | 410.9 | 343.8 | 290.9 | 256.3 | 236.0 | 229.8 | 227.8 |
| 35° | 7086.7 | 5660.8 | 2129.7 | 476.0 | 368.2 | 290.9 | 238.0 | 215.6 | 203.4 | 201.4 | 199.3 |
| 37.5° | 7023.6 | 5477.7 | 1627.2 | 431.2 | 327.5 | 244.1 | 201.4 | 185.1 | 179.0 | 174.9 | 177.0 |
| 40° | 7072.4 | 5325.2 | 1202.1 | 394.6 | 286.8 | 203.4 | 170.9 | 162.7 | 156.6 | 154.6 | 154.6 |
| 42.5° | 7286.0 | 5298.7 | 893.0 | 362.1 | 248.2 | 168.8 | 148.5 | 142.4 | 138.3 | 136.3 | 138.3 |
| 45° | 7847.4 | 5461.5 | 693.6 | 331.6 | 209.5 | 142.4 | 126.1 | 124.1 | 122.0 | 122.0 | 122.0 |
| 47.5° | 8691.5 | 5797.1 | 577.7 | 297.0 | 174.9 | 122.0 | 109.8 | 107.8 | 105.8 | 107.8 | 107.8 |
| 50° | 10121.5 | 6411.4 | 516.7 | 262.4 | 144.4 | 103.7 | 93.6 | 93.6 | 93.6 | 93.6 | 95.6 |
| 52.5° | 12295.9 | 7619.6 | 476.0 | 227.8 | 118.0 | 87.5 | 79.3 | 79.3 | 81.4 | 81.4 | 83.4 |
| 55° | 14718.5 | 9222.4 | 439.4 | 193.2 | 99.7 | 73.2 | 65.1 | 67.1 | 69.2 | 71.2 | 71.2 |
| 57.5° | 17346.5 | 10998.2 | 408.8 | 158.7 | 85.4 | 59.0 | 54.9 | 57.0 | 59.0 | 63.1 | 63.1 |
| 60° | 20517.6 | 12920.4 | 364.1 | 124.1 | 71.2 | 46.8 | 42.7 | 46.8 | 52.9 | 57.0 | 59.0 |
| 62.5° | 23999.9 | 14779.5 | 307.1 | 97.6 | 59.0 | 36.6 | 34.6 | 42.7 | 50.9 | 54.9 | 57.0 |
| 65° | 26379.7 | 15363.3 | 236.0 | 79.3 | 44.7 | 26.4 | 28.5 | 38.6 | 48.8 | 54.9 | 54.9 |
| 67° | 25415.6 | 13929.2 | 193.2 | 67.1 | 36.6 | 20.3 | 26.4 | 38.6 | 48.8 | 52.9 | 54.9 |
| 67.5° | 24746.4 | 13367.8 | 185.1 | 65.1 | 34.6 | 20.3 | 26.4 | 38.6 | 48.8 | 54.9 | 54.9 |
| 70° | 20135.2 | 10042.2 | 154.6 | 48.8 | 28.5 | 18.3 | 22.4 | 36.6 | 46.8 | 52.9 | 52.9 |
| 72.5° | 13990.3 | 6191.7 | 138.3 | 34.6 | 24.4 | 16.3 | 20.3 | 34.6 | 44.7 | 50.9 | 52.9 |
| 75° | 6651.4 | 2241.5 | 118.0 | 26.4 | 22.4 | 14.2 | 18.3 | 34.6 | 44.7 | 50.9 | 50.9 |
| 77.5° | 1356.7 | 520.7 | 95.6 | 22.4 | 18.3 | 14.2 | 16.3 | 32.5 | 42.7 | 48.8 | 48.8 |
| 80° | 445.5 | 201.4 | 71.2 | 20.3 | 18.3 | 14.2 | 16.3 | 30.5 | 42.7 | 46.8 | 48.8 |
| 82.5° | 321.4 | 101.7 | 46.8 | 20.3 | 18.3 | 14.2 | 14.2 | 30.5 | 40.7 | 46.8 | 46.8 |
| 85° | 246.1 | 71.2 | 30.5 | 20.3 | 18.3 | 14.2 | 14.2 | 28.5 | 38.6 | 44.7 | 44.7 |
| 87.5° | 162.7 | 28.5 | 24.4 | 20.3 | 18.3 | 14.2 | 14.2 | 28.5 | 36.6 | 42.7 | 44.7 |
| 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)