

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: P267070

Luminaire Tested: **GAN-AF-07-LED-U-SL2-7027-1200-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P267070
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-SL2-7027-1200-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA 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: 33235.9 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 448
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

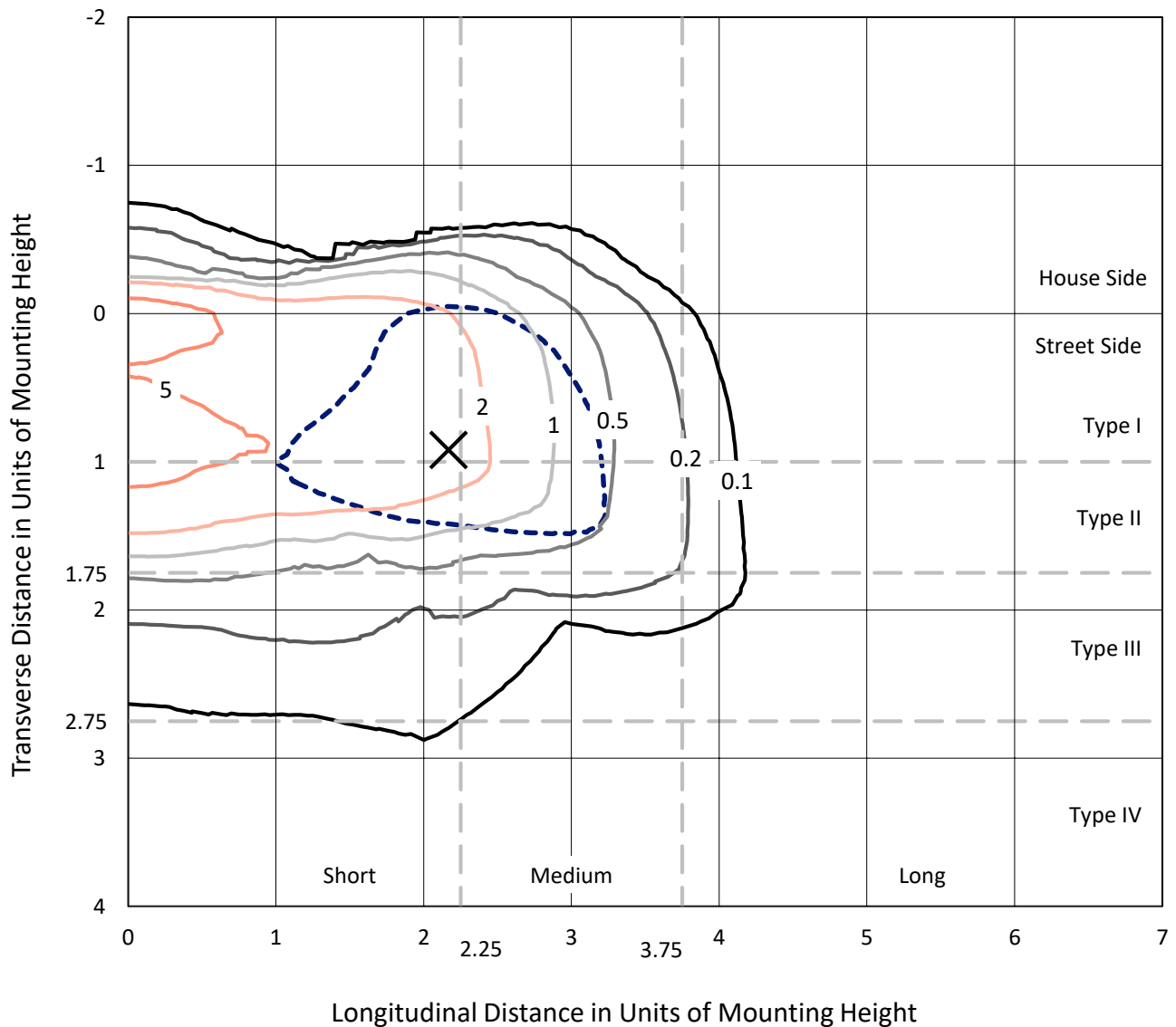


REPORT NUMBER: P267070

CATALOG NUMBER: GAN-AF-07-LED-U-SL2-7027-1200-HSS-ADJ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

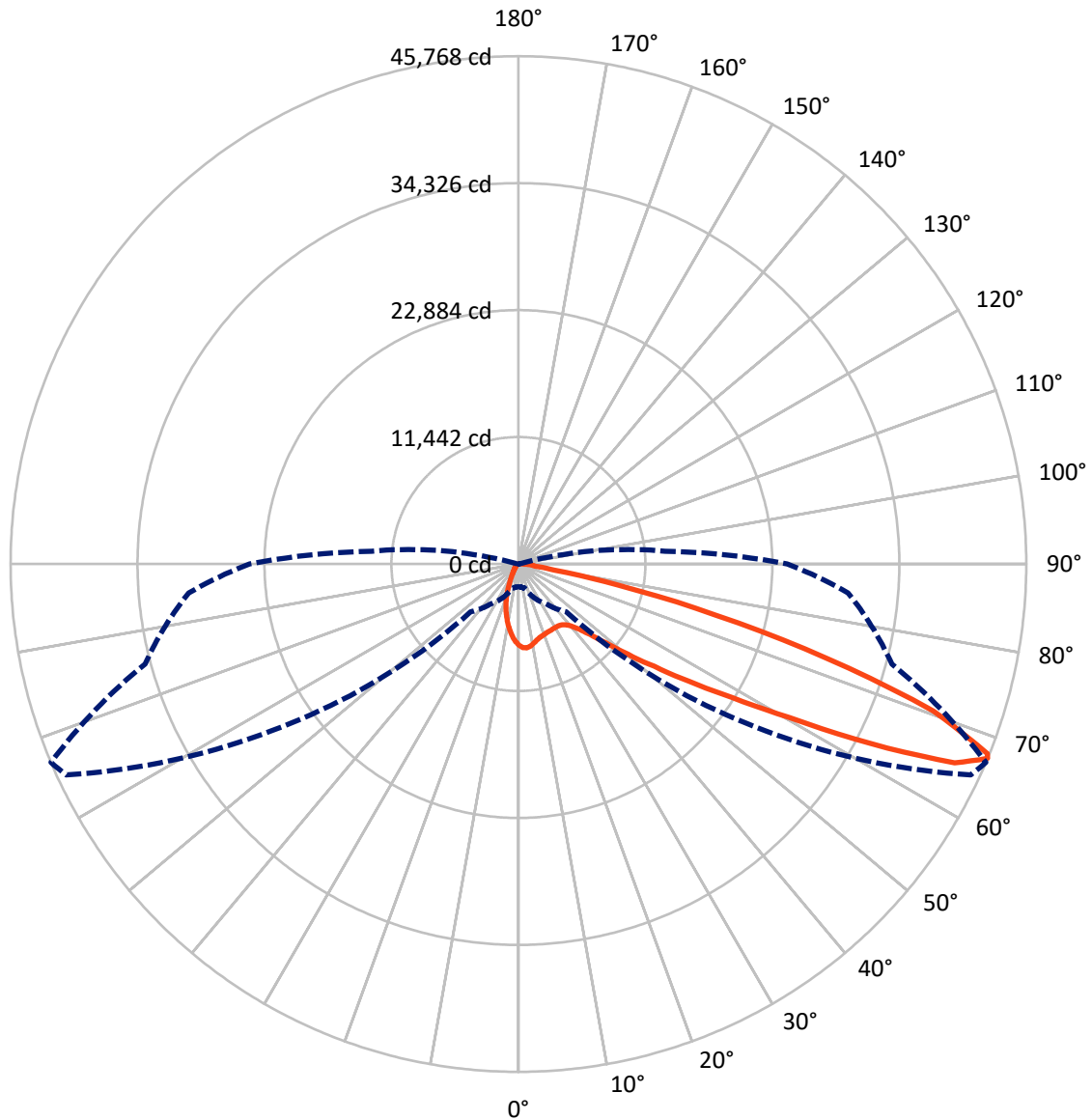


Based on 30 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P267070

CATALOG NUMBER: GAN-AF-07-LED-U-SL2-7027-1200-HSS-ADJ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P267070

CATALOG NUMBER: GAN-AF-07-LED-U-SL2-7027-1200-HSS-ADJ

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3450.9 | 0.0 | 3450.9 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 29785.0 | 0.0 | 29785.0 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 33235.9 | 0.0 | 33235.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 596.4 | 1.8 |
| 10°-20° | 1269.4 | 3.8 |
| 20°-30° | 1845.6 | 5.6 |
| 30°-40° | 2879.2 | 8.7 |
| 40°-50° | 5100.3 | 15.3 |
| 50°-60° | 8070.7 | 24.3 |
| 60°-70° | 9243.9 | 27.8 |
| 70°-80° | 3834.3 | 11.5 |
| 80°-90° | 396.1 | 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° | 33235.9 | 100.0 |
| 0°-180° | 33235.9 | 100.0 |



REPORT NUMBER: P267070

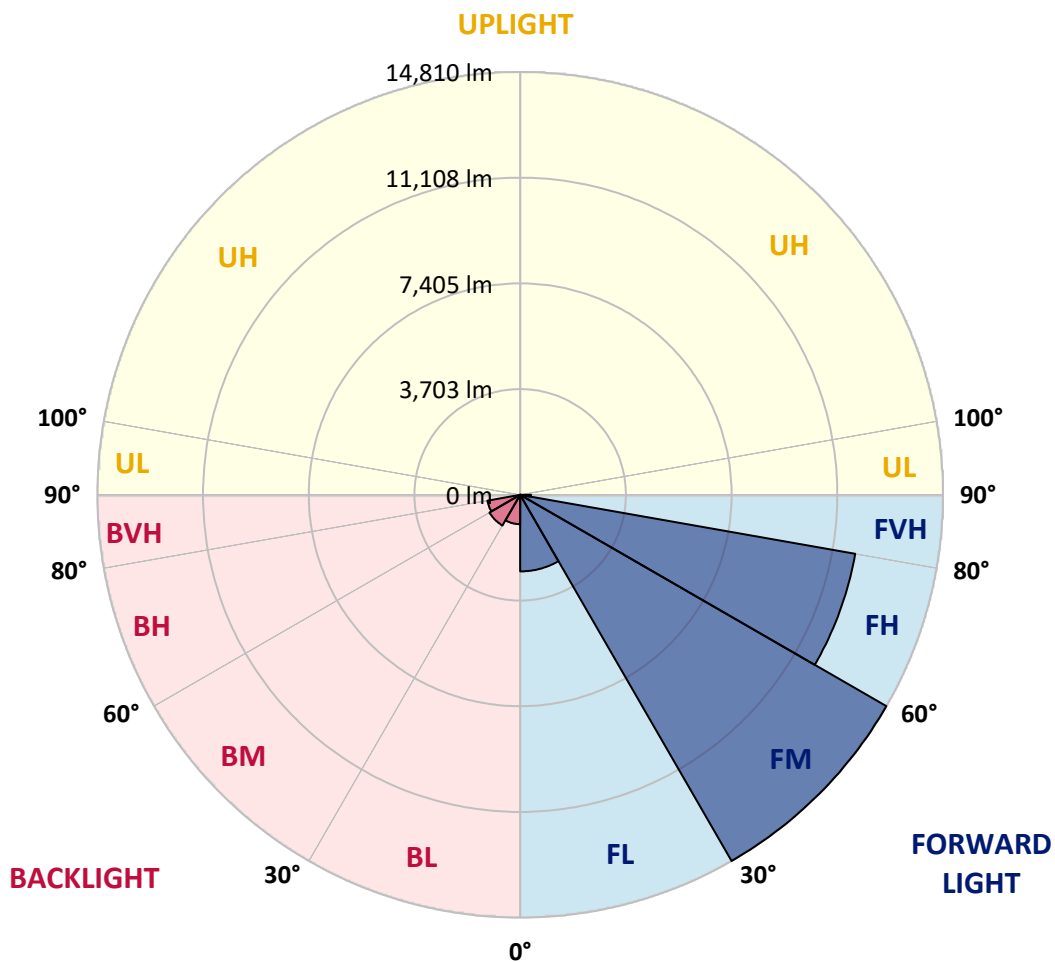
CATALOG NUMBER: GAN-AF-07-LED-U-SL2-7027-1200-HSS-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2681.6 | 8.1 | | | |
| FM (30°-60°) | 14810.0 | 44.6 | | | |
| FH (60°-80°) | 11915.2 | 35.9 | | | G4/12000 |
| FVH (80°-90°) | 378.2 | 1.1 | | | G3/500 |
| BL (0°-30°) | 1029.7 | 3.1 | B3/2500 | | |
| BM (30°-60°) | 1240.2 | 3.7 | B2/2500 | | |
| BH (60°-80°) | 1163.1 | 3.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 17.8 | 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-G4

Type II Short





REPORT NUMBER: P267070

CATALOG NUMBER: GAN-AF-07-LED-U-SL2-7027-1200-HSS-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7329.7 | 7329.7 | 7329.7 | 7329.7 | 7329.7 | 7329.7 | 7329.7 | 7329.7 | 7329.7 | 7329.7 | 7329.7 |
| 2.5° | 7577.9 | 7593.5 | 7591.4 | 7603.1 | 7630.3 | 7632.2 | 7605.1 | 7552.7 | 7541.0 | 7473.2 | 7355.0 |
| 5° | 6988.5 | 7033.1 | 7060.3 | 7170.8 | 7294.9 | 7444.2 | 7556.5 | 7597.2 | 7591.4 | 7543.0 | 7364.7 |
| 7.5° | 6315.9 | 6360.4 | 6391.5 | 6521.3 | 6686.2 | 6942.0 | 7234.8 | 7475.2 | 7496.4 | 7548.7 | 7356.8 |
| 10° | 5868.1 | 5875.9 | 5918.5 | 6042.4 | 6215.1 | 6476.8 | 6825.7 | 7246.4 | 7310.3 | 7502.3 | 7337.4 |
| 12.5° | 5499.8 | 5505.5 | 5561.8 | 5695.6 | 5879.6 | 6143.4 | 6509.7 | 6996.3 | 7095.2 | 7444.2 | 7333.7 |
| 15° | 5238.0 | 5259.3 | 5309.7 | 5449.3 | 5645.0 | 5906.9 | 6282.9 | 6812.1 | 6930.5 | 7422.8 | 7368.4 |
| 17.5° | 5150.8 | 5174.1 | 5189.6 | 5290.4 | 5468.7 | 5724.5 | 6110.5 | 6692.0 | 6825.7 | 7434.5 | 7436.3 |
| 20° | 5241.9 | 5259.3 | 5224.5 | 5249.6 | 5360.1 | 5589.0 | 5964.9 | 6589.2 | 6748.2 | 7447.9 | 7523.7 |
| 22.5° | 5581.2 | 5589.0 | 5493.9 | 5383.5 | 5364.0 | 5490.0 | 5850.7 | 6507.9 | 6678.4 | 7484.9 | 7626.3 |
| 25° | 6162.7 | 6149.2 | 5994.1 | 5755.6 | 5530.8 | 5472.6 | 5782.7 | 6457.3 | 6643.4 | 7523.7 | 7733.0 |
| 27.5° | 6864.5 | 6883.9 | 6670.6 | 6323.6 | 5895.1 | 5589.0 | 5773.0 | 6436.0 | 6628.0 | 7550.8 | 7826.0 |
| 30° | 7717.5 | 7744.6 | 7500.4 | 7064.1 | 6449.7 | 5875.9 | 5862.2 | 6432.1 | 6618.4 | 7533.2 | 7833.8 |
| 32.5° | 8587.8 | 8620.9 | 8428.9 | 7979.1 | 7190.2 | 6356.5 | 6063.9 | 6474.9 | 6637.7 | 7473.2 | 7789.3 |
| 35° | 9498.9 | 9545.5 | 9417.7 | 9031.7 | 8194.3 | 7050.5 | 6418.6 | 6604.7 | 6728.8 | 7467.4 | 7744.6 |
| 37.5° | 10757.2 | 10799.9 | 10559.3 | 10150.4 | 9409.8 | 7981.1 | 6988.5 | 6848.9 | 6944.0 | 7560.5 | 7756.2 |
| 40° | 12635.6 | 12629.8 | 12009.5 | 11383.3 | 10745.5 | 9163.6 | 7789.3 | 7291.0 | 7339.4 | 7841.6 | 7899.6 |
| 42.5° | 14682.7 | 14673.0 | 13756.1 | 12804.4 | 12228.4 | 10619.6 | 8841.8 | 8054.7 | 8021.9 | 8359.1 | 8272.0 |
| 45° | 16260.8 | 16258.9 | 15510.6 | 14438.5 | 14014.0 | 12290.6 | 10202.7 | 9117.1 | 9066.8 | 9200.5 | 8958.2 |
| 47.5° | 16933.4 | 16945.1 | 16569.0 | 15814.9 | 15993.2 | 14550.9 | 11918.4 | 10656.4 | 10580.7 | 10526.5 | 10158.2 |
| 50° | 16410.0 | 16433.2 | 16464.2 | 16317.0 | 17445.3 | 17588.6 | 14219.5 | 12825.6 | 12788.8 | 12546.4 | 11970.8 |
| 52.5° | 14700.3 | 14818.4 | 15183.0 | 15650.1 | 17949.3 | 20504.4 | 17827.1 | 15520.2 | 15322.5 | 15064.7 | 14430.7 |
| 55° | 11819.4 | 11949.3 | 12641.5 | 13775.5 | 17198.9 | 22419.5 | 22883.0 | 18994.1 | 18664.5 | 17895.0 | 16979.9 |
| 57.5° | 7822.1 | 8023.8 | 9028.0 | 10470.3 | 15020.1 | 22727.8 | 27927.0 | 23815.3 | 22667.7 | 20560.4 | 19529.2 |
| 60° | 4309.4 | 4503.4 | 5592.8 | 6899.4 | 10848.2 | 21204.1 | 31319.5 | 30092.5 | 28064.7 | 23540.1 | 22625.2 |
| 62.5° | 2654.0 | 2758.5 | 3563.0 | 4778.5 | 6505.9 | 16735.8 | 32021.3 | 37980.5 | 35632.9 | 27376.6 | 26364.5 |
| 65° | 2113.1 | 2157.5 | 2551.1 | 3906.2 | 4664.2 | 9954.6 | 29755.2 | 43994.0 | 43210.8 | 32021.3 | 29712.5 |
| 67° | 2051.0 | 2068.4 | 2254.6 | 3353.7 | 4396.7 | 6102.6 | 24928.1 | 44972.9 | 45767.7 | 34832.3 | 29817.3 |
| 67.5° | 2064.6 | 2084.0 | 2260.3 | 3200.7 | 4388.8 | 5608.3 | 23264.8 | 44587.2 | 45591.4 | 35055.2 | 29353.8 |
| 70° | 1991.0 | 2051.0 | 2587.9 | 3198.7 | 4173.7 | 4660.3 | 13932.5 | 38631.9 | 39676.8 | 32572.0 | 24906.8 |
| 72.5° | 705.7 | 709.5 | 1118.6 | 2587.9 | 4538.1 | 4710.7 | 6996.3 | 28320.7 | 29094.1 | 24916.5 | 17956.9 |
| 75° | 418.7 | 356.6 | 372.2 | 736.7 | 4336.6 | 4575.1 | 4036.2 | 18096.5 | 18385.4 | 14277.7 | 9093.8 |
| 77.5° | 288.9 | 252.1 | 259.8 | 325.6 | 1651.7 | 4511.1 | 3206.4 | 9437.0 | 9128.8 | 5007.3 | 1936.7 |
| 80° | 164.7 | 145.3 | 155.0 | 284.9 | 601.0 | 4208.6 | 3024.1 | 3826.7 | 3262.6 | 849.1 | 535.0 |
| 82.5° | 87.2 | 73.8 | 89.2 | 234.5 | 418.7 | 2623.0 | 3030.1 | 1849.4 | 1465.6 | 286.9 | 364.4 |
| 85° | 31.0 | 25.2 | 42.7 | 160.8 | 279.2 | 804.5 | 2809.0 | 1554.7 | 1221.2 | 139.5 | 277.1 |
| 87.5° | 5.7 | 5.7 | 17.4 | 65.9 | 112.5 | 246.1 | 1661.3 | 922.7 | 618.5 | 83.4 | 190.0 |
| 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: P267070

CATALOG NUMBER: GAN-AF-07-LED-U-SL2-7027-1200-HSS-ADJ

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7329.7 | 7329.7 | 7329.7 | 7329.7 | 7329.7 | 7329.7 | 7329.7 | 7329.7 | 7329.7 | 7329.7 | 7329.7 |
| 2.5° | 7306.5 | 7223.1 | 7110.8 | 6973.1 | 6810.2 | 6666.7 | 6560.1 | 6449.7 | 6426.4 | 6387.6 | 6381.7 |
| 5° | 7258.0 | 7114.5 | 6835.5 | 6515.5 | 6174.4 | 5866.1 | 5616.1 | 5393.2 | 5294.3 | 5208.9 | 5199.3 |
| 7.5° | 7186.4 | 6971.0 | 6496.2 | 5980.5 | 5447.4 | 4962.7 | 4551.8 | 4261.0 | 3993.4 | 3865.4 | 3846.2 |
| 10° | 7102.9 | 6794.7 | 6114.3 | 5399.0 | 4662.3 | 3978.0 | 3367.2 | 2855.5 | 2545.3 | 2361.1 | 2337.8 |
| 12.5° | 7025.4 | 6622.1 | 5724.5 | 4796.1 | 3817.1 | 2902.1 | 2116.9 | 1628.4 | 1302.7 | 1170.9 | 1155.4 |
| 15° | 6988.5 | 6482.6 | 5360.1 | 4179.5 | 2933.1 | 1847.5 | 1157.3 | 895.6 | 789.0 | 758.0 | 756.1 |
| 17.5° | 6984.7 | 6364.3 | 5003.5 | 3541.7 | 2055.0 | 1074.0 | 754.0 | 688.2 | 666.9 | 659.1 | 659.1 |
| 20° | 6982.7 | 6251.9 | 4646.8 | 2880.8 | 1304.7 | 715.3 | 628.0 | 612.6 | 597.1 | 587.4 | 587.4 |
| 22.5° | 7004.1 | 6151.1 | 4274.6 | 2206.1 | 821.9 | 579.6 | 552.5 | 536.9 | 517.7 | 503.9 | 502.2 |
| 25° | 7025.4 | 6073.5 | 3894.6 | 1570.2 | 595.1 | 503.9 | 476.9 | 455.6 | 428.4 | 411.0 | 409.1 |
| 27.5° | 7029.2 | 5976.7 | 3487.5 | 1050.7 | 498.2 | 440.1 | 405.1 | 372.2 | 341.1 | 323.7 | 321.9 |
| 30° | 6971.0 | 5813.8 | 3035.8 | 709.5 | 440.1 | 381.9 | 335.3 | 300.5 | 271.4 | 257.9 | 257.9 |
| 32.5° | 6856.8 | 5612.3 | 2539.5 | 535.0 | 391.7 | 327.6 | 277.1 | 244.2 | 224.8 | 219.0 | 217.1 |
| 35° | 6753.9 | 5395.0 | 2029.7 | 453.6 | 350.9 | 277.1 | 226.8 | 205.5 | 193.9 | 191.9 | 190.0 |
| 37.5° | 6693.9 | 5220.6 | 1550.8 | 411.0 | 312.2 | 232.7 | 191.9 | 176.3 | 170.6 | 166.7 | 168.6 |
| 40° | 6740.4 | 5075.2 | 1145.7 | 376.1 | 273.4 | 193.9 | 162.9 | 155.0 | 149.3 | 147.3 | 147.3 |
| 42.5° | 6944.0 | 5050.0 | 851.1 | 345.0 | 236.6 | 160.8 | 141.6 | 135.7 | 131.8 | 129.8 | 131.8 |
| 45° | 7479.0 | 5205.0 | 661.1 | 315.9 | 199.7 | 135.7 | 120.3 | 118.2 | 116.3 | 116.3 | 116.3 |
| 47.5° | 8283.5 | 5524.9 | 550.5 | 283.1 | 166.7 | 116.3 | 104.7 | 102.8 | 100.8 | 102.8 | 102.8 |
| 50° | 9646.3 | 6110.5 | 492.5 | 250.1 | 137.6 | 98.9 | 89.2 | 89.2 | 89.2 | 89.2 | 91.1 |
| 52.5° | 11718.7 | 7261.9 | 453.6 | 217.1 | 112.5 | 83.4 | 75.5 | 75.5 | 77.6 | 77.6 | 79.5 |
| 55° | 14027.6 | 8789.5 | 418.7 | 184.2 | 95.0 | 69.8 | 62.1 | 64.0 | 65.9 | 67.8 | 67.8 |
| 57.5° | 16532.1 | 10481.9 | 389.7 | 151.3 | 81.4 | 56.2 | 52.3 | 54.3 | 56.2 | 60.0 | 60.0 |
| 60° | 19554.3 | 12313.8 | 347.0 | 118.2 | 67.8 | 44.6 | 40.8 | 44.6 | 50.5 | 54.3 | 56.2 |
| 62.5° | 22873.3 | 14085.7 | 292.7 | 93.1 | 56.2 | 34.9 | 33.0 | 40.8 | 48.5 | 52.3 | 54.3 |
| 65° | 25141.4 | 14642.1 | 224.8 | 75.5 | 42.7 | 25.2 | 27.2 | 36.8 | 46.5 | 52.3 | 52.3 |
| 67° | 24222.4 | 13275.3 | 184.2 | 64.0 | 34.9 | 19.5 | 25.2 | 36.8 | 46.5 | 50.5 | 52.3 |
| 67.5° | 23584.7 | 12740.3 | 176.3 | 62.1 | 33.0 | 19.5 | 25.2 | 36.8 | 46.5 | 52.3 | 52.3 |
| 70° | 19190.0 | 9570.7 | 147.3 | 46.5 | 27.2 | 17.4 | 21.3 | 34.9 | 44.6 | 50.5 | 50.5 |
| 72.5° | 13333.5 | 5901.1 | 131.8 | 33.0 | 23.3 | 15.5 | 19.5 | 33.0 | 42.7 | 48.5 | 50.5 |
| 75° | 6339.1 | 2136.3 | 112.5 | 25.2 | 21.3 | 13.6 | 17.4 | 33.0 | 42.7 | 48.5 | 48.5 |
| 77.5° | 1293.0 | 496.3 | 91.1 | 21.3 | 17.4 | 13.6 | 15.5 | 31.0 | 40.8 | 46.5 | 46.5 |
| 80° | 424.5 | 191.9 | 67.8 | 19.5 | 17.4 | 13.6 | 15.5 | 29.0 | 40.8 | 44.6 | 46.5 |
| 82.5° | 306.3 | 96.9 | 44.6 | 19.5 | 17.4 | 13.6 | 13.6 | 29.0 | 38.7 | 44.6 | 44.6 |
| 85° | 234.5 | 67.8 | 29.0 | 19.5 | 17.4 | 13.6 | 13.6 | 27.2 | 36.8 | 42.7 | 42.7 |
| 87.5° | 155.0 | 27.2 | 23.3 | 19.5 | 17.4 | 13.6 | 13.6 | 27.2 | 34.9 | 40.8 | 42.7 |
| 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)