

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: P267076

Luminaire Tested: **GAN-AF-07-LED-U-SL3-7027-800-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P267076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7027-800-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25248.6 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 295
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

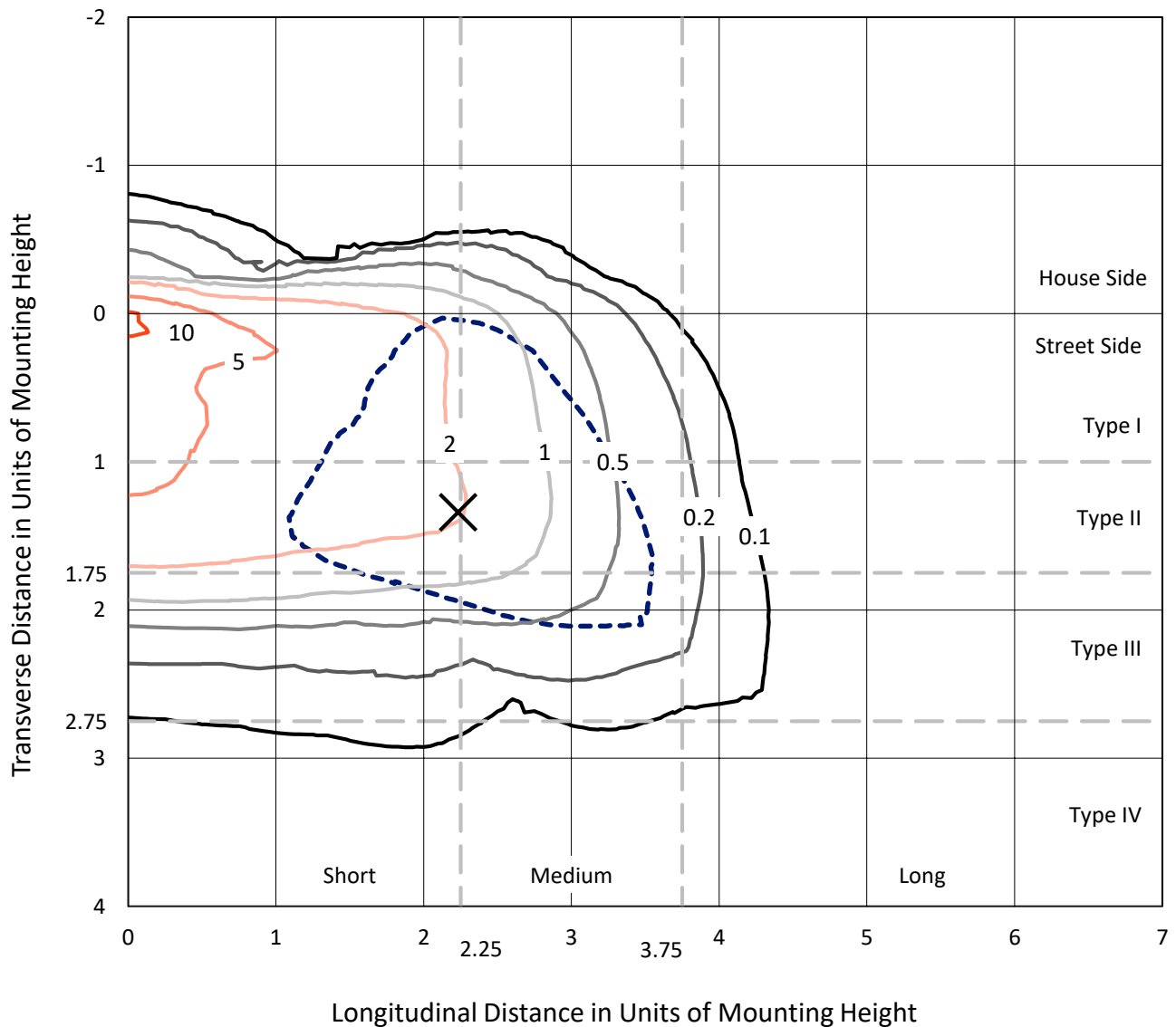


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

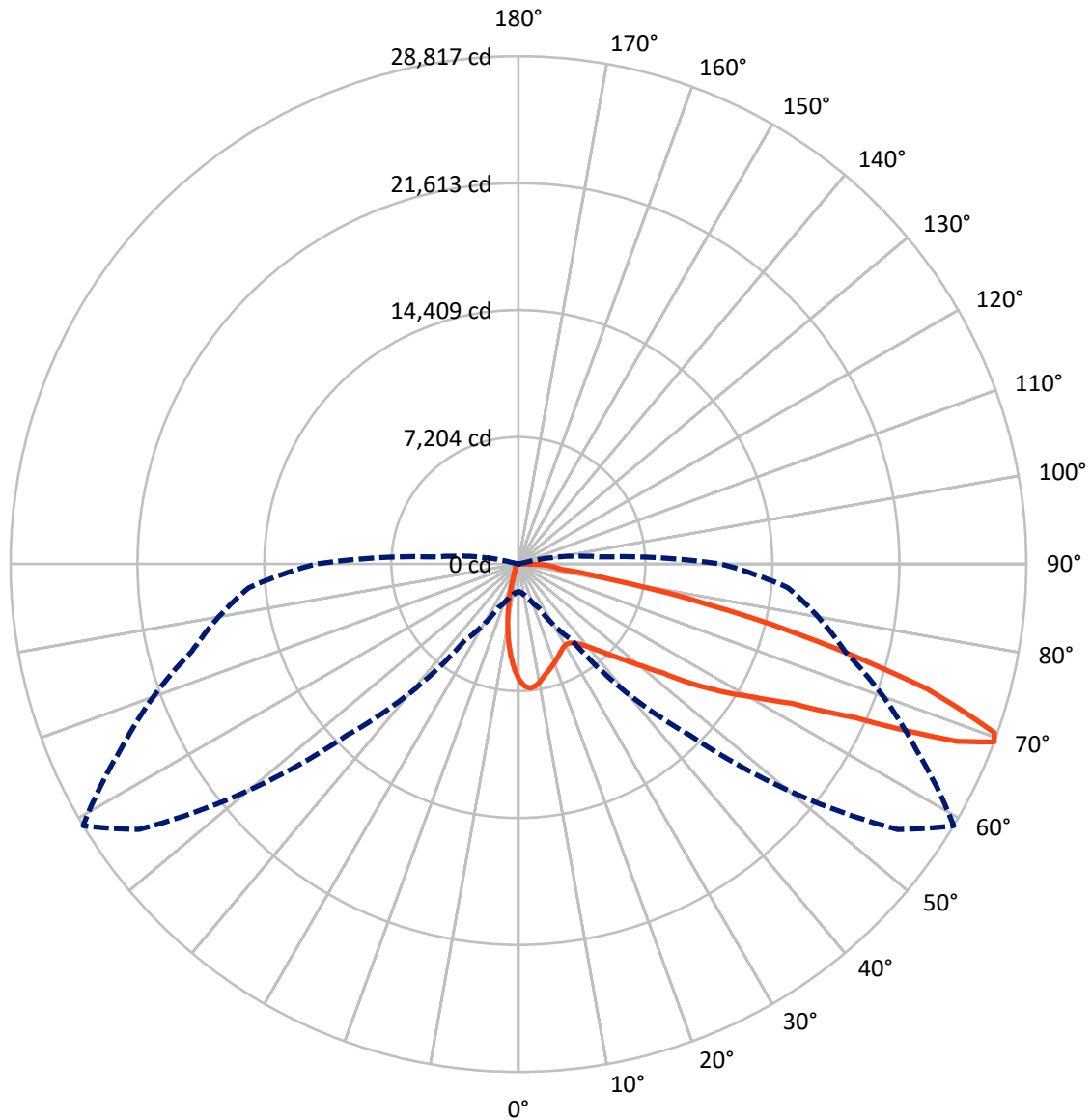


Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2056.2 | 0.0 | 2056.2 |
| | % Fixture | 8.1 | 0.0 | 8.1 |
| Street Side | Lumens | 23192.4 | 0.0 | 23192.4 |
| | % Fixture | 91.9 | 0.0 | 91.9 |
| Total | Lumens | 25248.6 | 0.0 | 25248.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 533.4 | 2.1 |
| 10°-20° | 1102.2 | 4.4 |
| 20°-30° | 1483.2 | 5.9 |
| 30°-40° | 2153.5 | 8.5 |
| 40°-50° | 3585.8 | 14.2 |
| 50°-60° | 5593.7 | 22.2 |
| 60°-70° | 6921.8 | 27.4 |
| 70°-80° | 3507.9 | 13.9 |
| 80°-90° | 367.0 | 1.5 |
| 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° | 25248.6 | 100.0 |
| 0°-180° | 25248.6 | 100.0 |



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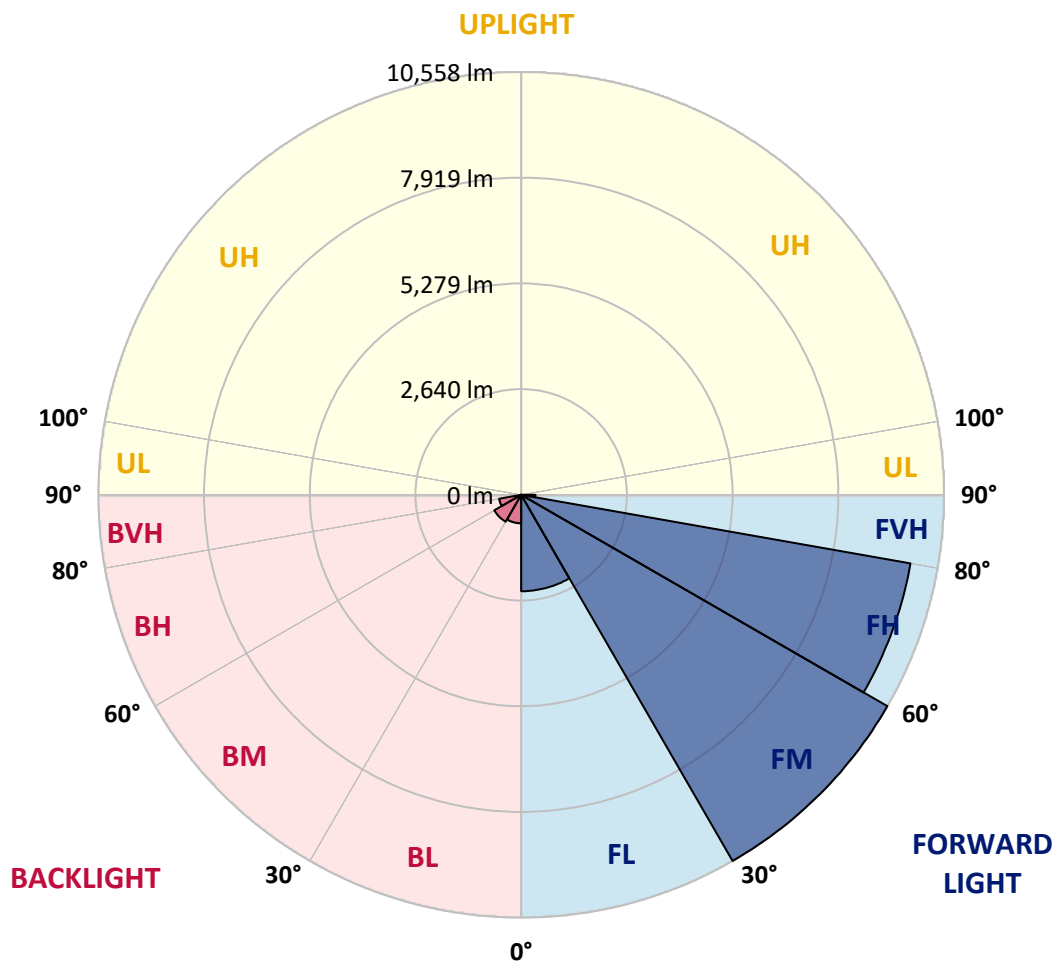
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2407.2 | 9.5 | | | |
| FM | (30°-60°) | 10558.2 | 41.8 | | | |
| FH | (60°-80°) | 9871.3 | 39.1 | | | G4/12000 |
| FVH | (80°-90°) | 355.8 | 1.4 | | | G3/500 |
| BL | (0°-30°) | 711.7 | 2.8 | B2/1000 | | |
| BM | (30°-60°) | 774.8 | 3.1 | B1/1000 | | |
| BH | (60°-80°) | 558.4 | 2.2 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 11.3 | 0.0 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6571.9 | 6571.9 | 6571.9 | 6571.9 | 6571.9 | 6571.9 | 6571.9 | 6571.9 | 6571.9 | 6571.9 | 6571.9 |
| 2.5° | 7202.9 | 7200.1 | 7168.7 | 7154.5 | 7128.7 | 7074.4 | 6990.3 | 6946.0 | 6874.5 | 6750.4 | 6583.3 |
| 5° | 7137.3 | 7171.4 | 7190.0 | 7191.6 | 7210.1 | 7190.0 | 7114.3 | 7077.2 | 6978.8 | 6778.9 | 6479.0 |
| 7.5° | 6691.8 | 6704.6 | 6757.5 | 6803.1 | 6891.6 | 6975.9 | 7003.0 | 6987.3 | 6928.7 | 6714.7 | 6316.3 |
| 10° | 6215.0 | 6227.8 | 6290.7 | 6350.6 | 6470.5 | 6600.4 | 6737.5 | 6766.0 | 6790.3 | 6623.3 | 6159.3 |
| 12.5° | 5803.7 | 5816.5 | 5880.8 | 5959.4 | 6099.3 | 6259.2 | 6471.8 | 6519.0 | 6626.1 | 6536.2 | 6033.6 |
| 15° | 5449.7 | 5455.3 | 5518.2 | 5615.2 | 5782.3 | 5987.9 | 6229.1 | 6304.8 | 6469.1 | 6474.8 | 5923.7 |
| 17.5° | 5148.5 | 5162.6 | 5201.2 | 5294.0 | 5476.7 | 5730.9 | 6012.1 | 6120.7 | 6313.5 | 6423.4 | 5816.5 |
| 20° | 4964.3 | 4978.4 | 4977.1 | 5028.5 | 5192.7 | 5463.9 | 5795.1 | 5925.1 | 6159.3 | 6370.6 | 5720.9 |
| 22.5° | 4928.6 | 4928.6 | 4891.5 | 4884.3 | 4981.5 | 5208.4 | 5569.6 | 5728.0 | 6020.8 | 6347.8 | 5653.8 |
| 25° | 5055.7 | 5049.9 | 4957.0 | 4881.4 | 4885.7 | 5021.3 | 5351.2 | 5539.6 | 5903.8 | 6363.5 | 5618.1 |
| 27.5° | 5324.1 | 5316.9 | 5199.7 | 5055.7 | 4940.0 | 4938.5 | 5185.6 | 5388.3 | 5810.9 | 6437.7 | 5632.5 |
| 30° | 5695.3 | 5692.4 | 5565.3 | 5384.0 | 5174.1 | 4981.5 | 5128.5 | 5312.5 | 5750.9 | 6571.9 | 5665.3 |
| 32.5° | 6100.7 | 6096.4 | 6000.8 | 5809.5 | 5543.9 | 5174.1 | 5188.4 | 5342.6 | 5768.0 | 6750.4 | 5745.2 |
| 35° | 6530.5 | 6523.3 | 6481.9 | 6314.8 | 6022.1 | 5529.6 | 5385.3 | 5505.4 | 5876.5 | 7017.3 | 5902.3 |
| 37.5° | 6995.9 | 7003.0 | 7033.0 | 6873.1 | 6566.2 | 6027.8 | 5715.2 | 5796.7 | 6095.0 | 7379.9 | 6157.8 |
| 40° | 7682.7 | 7681.1 | 7691.2 | 7481.4 | 7185.8 | 6637.5 | 6176.3 | 6202.1 | 6460.5 | 7861.1 | 6546.2 |
| 42.5° | 8929.1 | 8841.9 | 8577.8 | 8149.6 | 7852.5 | 7334.3 | 6757.5 | 6730.3 | 6907.3 | 8456.5 | 7090.1 |
| 45° | 10603.9 | 10418.3 | 9732.9 | 8911.9 | 8532.1 | 8119.5 | 7472.8 | 7385.7 | 7498.4 | 9171.8 | 7761.1 |
| 47.5° | 12044.4 | 11851.6 | 10882.2 | 9705.7 | 9253.1 | 8864.8 | 8310.8 | 8153.7 | 8190.9 | 9972.8 | 8612.1 |
| 50° | 12534.1 | 12439.9 | 11593.2 | 10396.8 | 9951.3 | 9802.8 | 9283.2 | 9091.8 | 9038.9 | 10899.3 | 9598.7 |
| 52.5° | 12364.2 | 12357.1 | 11793.0 | 10845.1 | 10590.9 | 10773.7 | 10506.7 | 10285.5 | 10091.2 | 11876.0 | 10602.3 |
| 55° | 12091.5 | 12127.2 | 11874.4 | 11237.6 | 11229.2 | 11660.3 | 12179.9 | 11995.8 | 11433.3 | 12936.8 | 11467.6 |
| 57.5° | 11339.0 | 11491.8 | 11828.8 | 11980.2 | 12331.4 | 12772.6 | 13573.5 | 13681.9 | 13016.7 | 13749.1 | 12185.7 |
| 60° | 9200.4 | 9535.9 | 10638.1 | 12087.2 | 13752.0 | 14851.3 | 15255.3 | 15348.1 | 14315.8 | 14424.4 | 13155.1 |
| 62.5° | 6530.5 | 6873.1 | 8270.9 | 10722.3 | 13773.4 | 17582.5 | 17761.0 | 17396.9 | 15746.5 | 15425.2 | 14827.1 |
| 65° | 3466.5 | 3730.8 | 4872.9 | 7739.7 | 11941.6 | 18216.5 | 22142.7 | 21057.7 | 18270.7 | 17394.2 | 16987.2 |
| 67.5° | 1773.3 | 1853.3 | 2307.2 | 3787.8 | 8209.5 | 16180.5 | 26070.4 | 26834.3 | 22620.9 | 19347.2 | 16882.9 |
| 69° | 1569.1 | 1616.2 | 1917.4 | 2738.5 | 5256.9 | 13704.8 | 26261.8 | 28817.4 | 24898.3 | 19184.5 | 15342.4 |
| 70° | 1519.2 | 1560.5 | 1834.7 | 2478.6 | 4109.0 | 11493.3 | 25529.3 | 28643.3 | 25480.9 | 18564.8 | 14191.8 |
| 72.5° | 1289.2 | 1324.9 | 1633.3 | 2190.2 | 3339.4 | 5705.2 | 20737.8 | 24271.5 | 22865.2 | 15465.2 | 10272.6 |
| 75° | 862.4 | 979.4 | 1567.6 | 2053.0 | 3106.8 | 3240.9 | 13672.1 | 17539.8 | 16293.3 | 10430.9 | 5351.2 |
| 77.5° | 207.0 | 222.7 | 442.5 | 1633.3 | 2841.2 | 2852.6 | 7031.7 | 10903.5 | 8893.4 | 3717.8 | 1265.0 |
| 80° | 111.4 | 107.1 | 124.2 | 324.1 | 2645.6 | 2676.9 | 3165.3 | 5292.6 | 3175.2 | 616.7 | 417.0 |
| 82.5° | 78.5 | 74.2 | 79.9 | 135.6 | 832.4 | 2438.5 | 2290.0 | 2395.7 | 1316.3 | 237.1 | 187.0 |
| 85° | 28.6 | 27.0 | 44.2 | 122.8 | 261.2 | 1402.1 | 2352.9 | 1976.0 | 1066.5 | 108.5 | 137.0 |
| 87.5° | 10.1 | 8.5 | 17.2 | 67.2 | 79.9 | 596.8 | 1452.0 | 1493.4 | 419.8 | 65.7 | 64.3 |
| 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-07-LED-U-SL3-7027-800-HSS-ADJ

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6571.9 | 6571.9 | 6571.9 | 6571.9 | 6571.9 | 6571.9 | 6571.9 | 6571.9 | 6571.9 | 6571.9 | 6571.9 |
| 2.5° | 6513.3 | 6424.8 | 6262.1 | 6095.0 | 5940.9 | 5755.3 | 5662.3 | 5571.0 | 5532.5 | 5518.2 | 5451.1 |
| 5° | 6324.8 | 6174.9 | 5829.5 | 5482.4 | 5162.6 | 4822.9 | 4598.8 | 4418.9 | 4313.2 | 4261.7 | 4180.4 |
| 7.5° | 6083.6 | 5838.1 | 5314.1 | 4778.7 | 4280.3 | 3789.2 | 3425.1 | 3145.2 | 2952.5 | 2859.8 | 2775.6 |
| 10° | 5849.5 | 5522.5 | 4777.1 | 4047.7 | 3370.9 | 2719.9 | 2217.2 | 1853.3 | 1620.5 | 1513.5 | 1444.8 |
| 12.5° | 5639.6 | 5215.5 | 4259.0 | 3335.1 | 2485.7 | 1723.3 | 1212.2 | 922.3 | 778.1 | 728.2 | 703.9 |
| 15° | 5452.5 | 4932.9 | 3769.2 | 2658.4 | 1683.3 | 985.1 | 662.5 | 564.0 | 541.0 | 541.0 | 538.3 |
| 17.5° | 5275.4 | 4655.8 | 3296.6 | 2023.2 | 1056.5 | 602.6 | 503.9 | 491.2 | 491.2 | 496.9 | 496.9 |
| 20° | 5105.5 | 4391.8 | 2839.7 | 1452.0 | 665.4 | 478.3 | 455.4 | 452.6 | 455.4 | 462.5 | 462.5 |
| 22.5° | 4959.9 | 4151.8 | 2412.8 | 996.6 | 494.0 | 431.1 | 419.8 | 415.5 | 417.0 | 421.1 | 424.0 |
| 25° | 4851.4 | 3949.0 | 2010.2 | 675.3 | 425.4 | 392.6 | 379.8 | 372.6 | 367.0 | 367.0 | 369.8 |
| 27.5° | 4782.9 | 3777.8 | 1620.5 | 491.2 | 382.7 | 356.9 | 337.0 | 325.5 | 312.7 | 305.6 | 308.4 |
| 30° | 4732.9 | 3615.0 | 1255.0 | 401.3 | 342.7 | 316.9 | 291.3 | 272.6 | 254.1 | 245.5 | 248.4 |
| 32.5° | 4714.3 | 3483.6 | 938.0 | 354.1 | 307.0 | 278.5 | 247.0 | 222.7 | 202.7 | 195.7 | 197.0 |
| 35° | 4764.3 | 3379.5 | 686.8 | 319.7 | 278.5 | 242.7 | 207.0 | 179.9 | 164.2 | 159.9 | 161.3 |
| 37.5° | 4895.8 | 3323.8 | 514.0 | 291.3 | 252.8 | 212.7 | 172.7 | 147.1 | 137.0 | 137.0 | 138.5 |
| 40° | 5144.1 | 3322.3 | 412.6 | 271.3 | 229.8 | 184.2 | 142.8 | 124.2 | 118.4 | 121.4 | 122.8 |
| 42.5° | 5506.8 | 3398.0 | 359.9 | 252.8 | 209.8 | 157.1 | 118.4 | 105.6 | 104.3 | 107.1 | 108.5 |
| 45° | 6002.1 | 3536.4 | 331.3 | 237.1 | 188.5 | 131.3 | 99.9 | 91.4 | 91.4 | 95.7 | 97.0 |
| 47.5° | 6609.0 | 3739.3 | 307.0 | 221.3 | 167.1 | 110.0 | 85.7 | 79.9 | 81.3 | 85.7 | 87.0 |
| 50° | 7340.1 | 3994.9 | 282.6 | 204.2 | 151.4 | 91.4 | 74.2 | 70.0 | 71.3 | 77.2 | 78.5 |
| 52.5° | 8172.4 | 4339.0 | 262.8 | 188.5 | 131.3 | 75.6 | 62.8 | 59.9 | 62.8 | 68.5 | 70.0 |
| 55° | 8886.3 | 4647.3 | 238.4 | 175.6 | 105.6 | 62.8 | 51.5 | 51.5 | 54.3 | 61.4 | 62.8 |
| 57.5° | 9573.0 | 4970.0 | 217.0 | 151.4 | 82.9 | 49.9 | 42.8 | 44.2 | 48.6 | 55.7 | 57.1 |
| 60° | 10581.0 | 5516.9 | 191.2 | 127.1 | 62.8 | 40.0 | 35.8 | 37.1 | 42.8 | 49.9 | 51.5 |
| 62.5° | 12292.8 | 6349.1 | 165.6 | 105.6 | 48.6 | 31.4 | 28.6 | 31.4 | 38.5 | 47.2 | 48.6 |
| 65° | 13837.6 | 6687.5 | 135.6 | 88.6 | 37.1 | 24.3 | 24.3 | 28.6 | 37.1 | 45.6 | 47.2 |
| 67.5° | 12976.6 | 5629.6 | 105.6 | 70.0 | 28.6 | 18.5 | 20.0 | 27.0 | 35.8 | 45.6 | 47.2 |
| 69° | 11476.1 | 4603.1 | 89.9 | 55.7 | 24.3 | 17.2 | 18.5 | 27.0 | 35.8 | 44.2 | 45.6 |
| 70° | 10306.9 | 3886.2 | 79.9 | 47.2 | 21.4 | 17.2 | 18.5 | 25.7 | 35.8 | 44.2 | 45.6 |
| 72.5° | 6903.0 | 2098.8 | 64.3 | 34.2 | 20.0 | 15.7 | 15.7 | 25.7 | 34.2 | 42.8 | 44.2 |
| 75° | 2966.8 | 579.6 | 51.5 | 24.3 | 17.2 | 14.3 | 14.3 | 24.3 | 32.9 | 41.4 | 44.2 |
| 77.5° | 542.5 | 147.1 | 41.4 | 21.4 | 17.2 | 14.3 | 12.8 | 22.8 | 31.4 | 40.0 | 41.4 |
| 80° | 215.7 | 72.9 | 32.9 | 18.5 | 15.7 | 12.8 | 11.4 | 21.4 | 30.0 | 38.5 | 40.0 |
| 82.5° | 130.0 | 41.4 | 27.0 | 17.2 | 15.7 | 11.4 | 10.1 | 18.5 | 28.6 | 37.1 | 38.5 |
| 85° | 105.6 | 28.6 | 21.4 | 17.2 | 14.3 | 11.4 | 8.5 | 17.2 | 25.7 | 35.8 | 37.1 |
| 87.5° | 51.5 | 20.0 | 20.0 | 15.7 | 14.3 | 11.4 | 8.5 | 15.7 | 24.3 | 34.2 | 35.8 |
| 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)