

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: P268691

Luminaire Tested: **GAN-AF-07-LED-U-SLL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
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-SLL-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25972 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

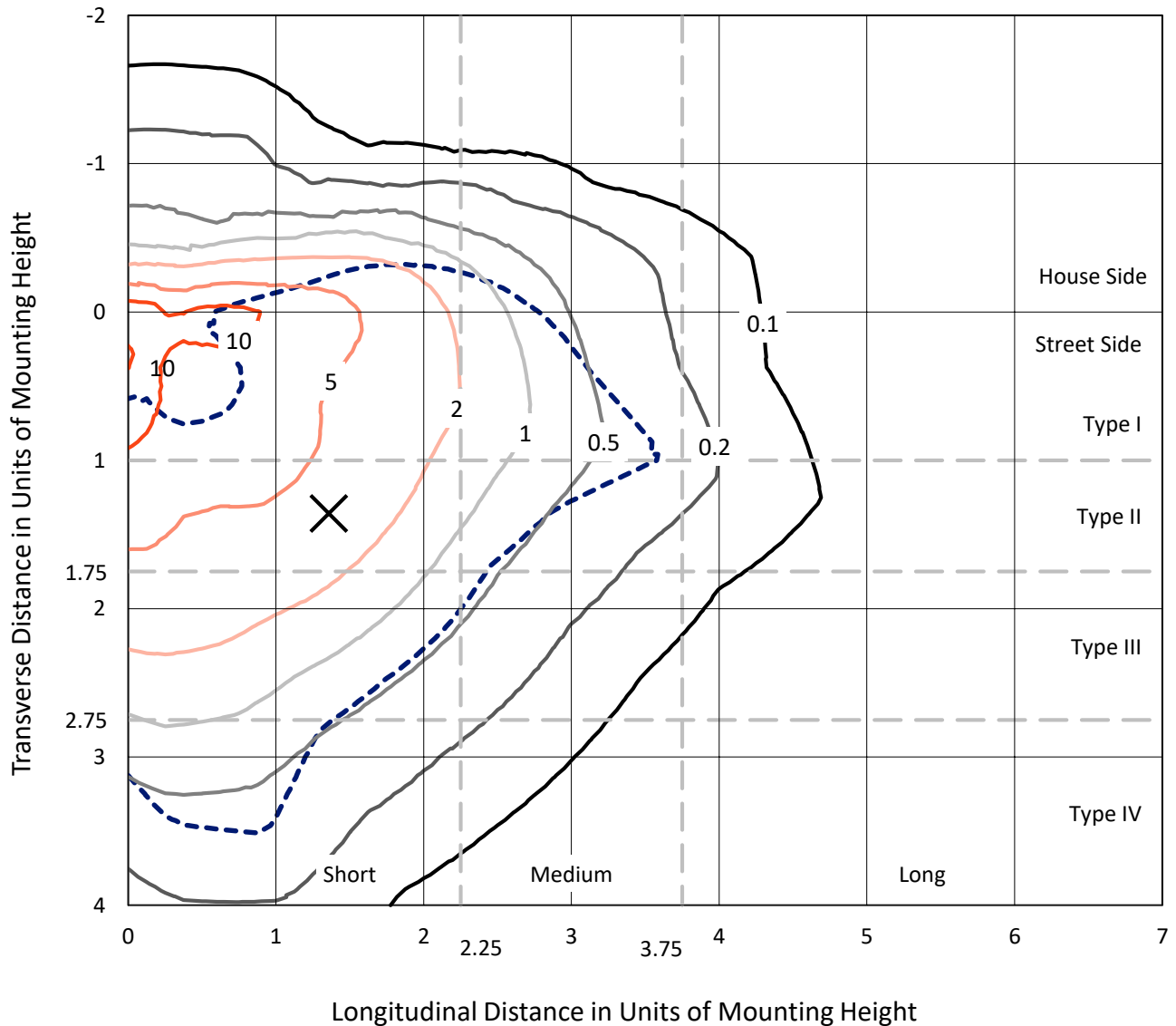
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P268691
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Iso-Footcandle Lines of Horizontal Illumination

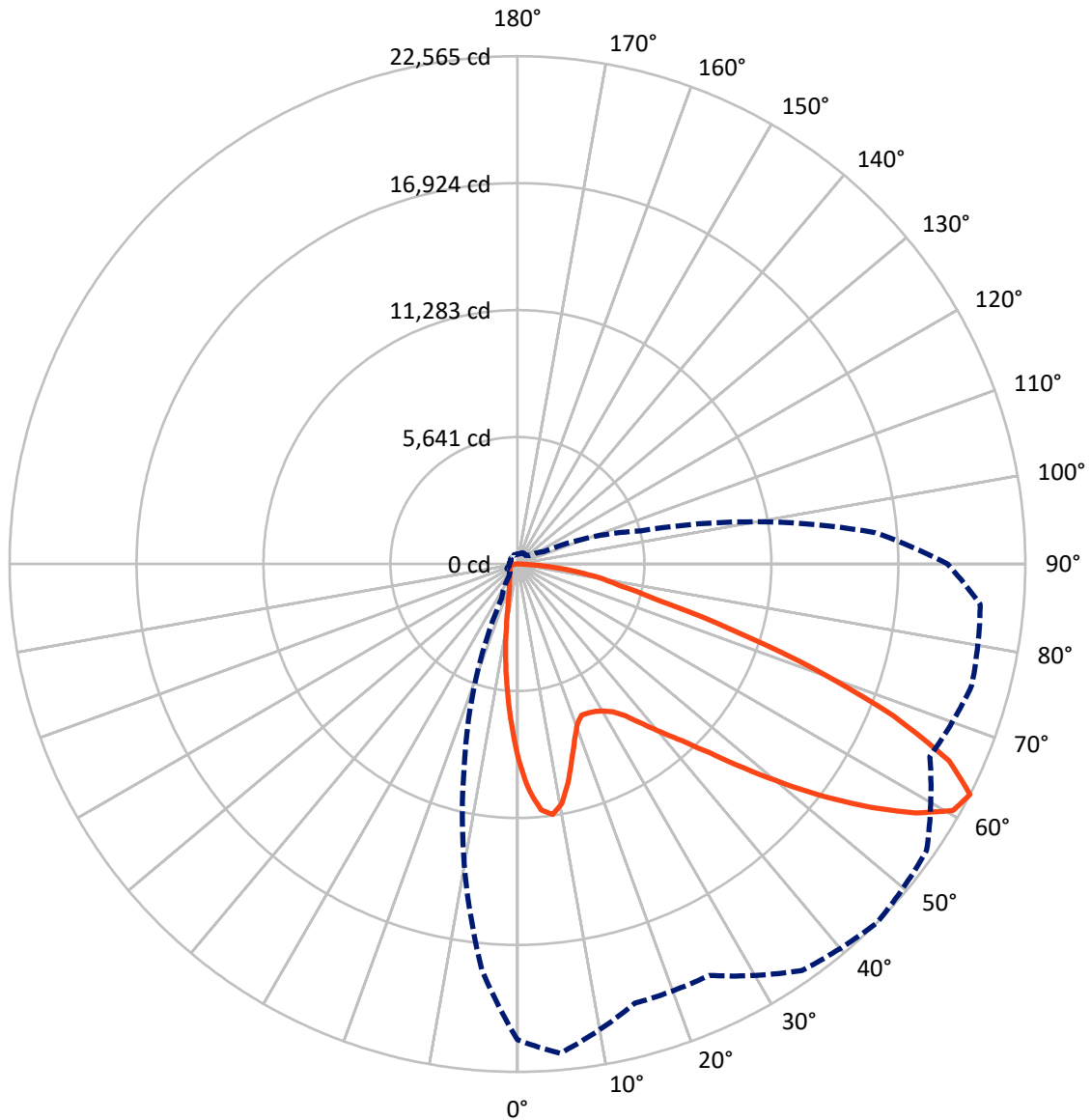
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4298.0 | 0.0 | 4298.0 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 21674.0 | 0.0 | 21674.0 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 25972.0 | 0.0 | 25972.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 638.8 | 2.5 |
| 10°-20° | 1171.3 | 4.5 |
| 20°-30° | 1707.8 | 6.6 |
| 30°-40° | 2630.2 | 10.1 |
| 40°-50° | 3871.0 | 14.9 |
| 50°-60° | 5677.9 | 21.9 |
| 60°-70° | 6347.1 | 24.4 |
| 70°-80° | 3107.5 | 12.0 |
| 80°-90° | 820.5 | 3.2 |
| 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° | 25972.0 | 100.0 |
| 0°-180° | 25972.0 | 100.0 |

Coefficient of Utilization



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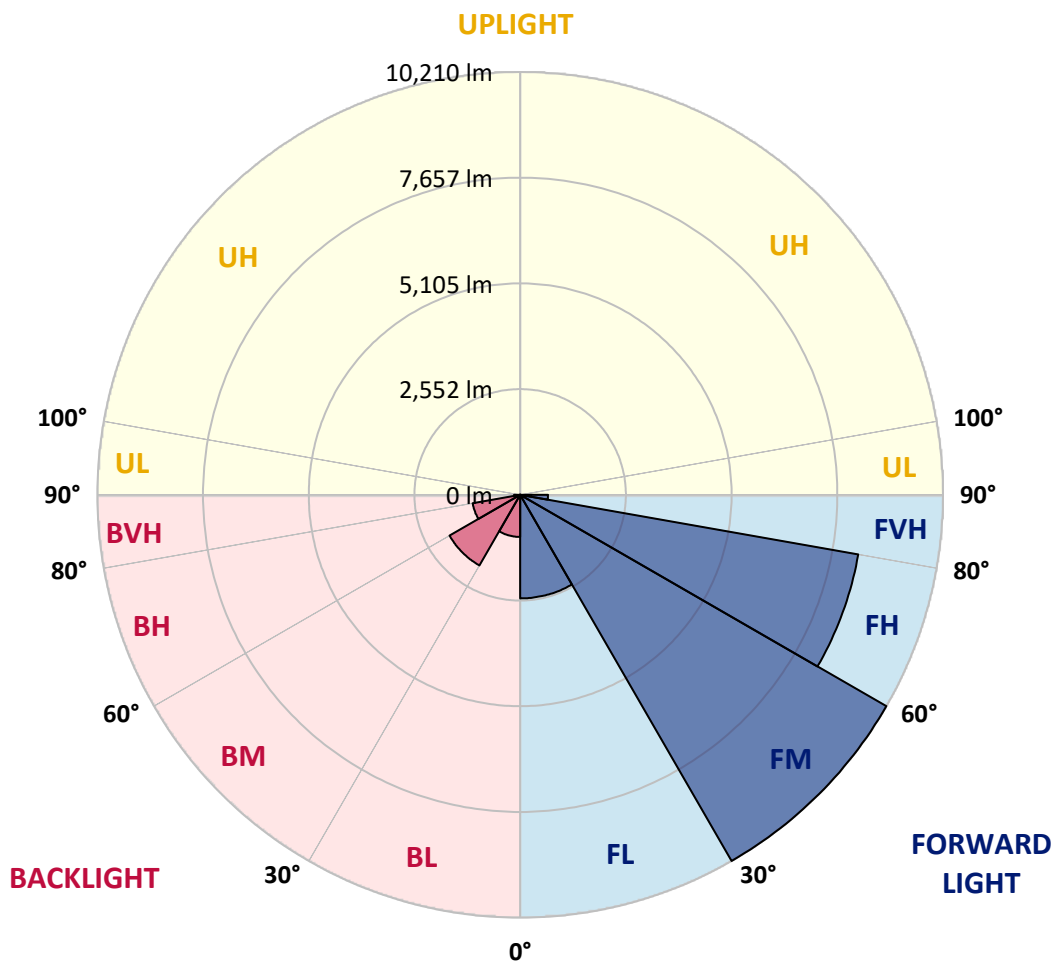
CATALOG NUMBER: GAN-AF-07-LED-U-SLL-7027-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2501.0 | 9.6 | | | |
| FM | (30°-60°) | 10209.8 | 39.3 | | | |
| FH | (60°-80°) | 8289.4 | 31.9 | | | G4/12000 |
| FVH | (80°-90°) | 673.8 | 2.6 | | | G4/750 |
| BL | (0°-30°) | 1016.8 | 3.9 | B3/2500 | | |
| BM | (30°-60°) | 1969.3 | 7.6 | B2/2500 | | |
| BH | (60°-80°) | 1165.2 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 146.7 | 0.6 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Short





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CATALOG NUMBER: GAN-AF-07-LED-U-SLL-7027-800

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8774.7 | 8774.7 | 8774.7 | 8774.7 | 8774.7 | 8774.7 | 8774.7 | 8774.7 | 8774.7 | 8774.7 | 8774.7 |
| 2.5° | 9117.3 | 9263.1 | 9547.1 | 9759.8 | 10018.3 | 10078.3 | 10161.1 | 10079.6 | 9935.4 | 9744.2 | 9681.4 |
| 5° | 8573.5 | 8884.6 | 9574.2 | 10181.0 | 10720.7 | 10972.0 | 11042.0 | 10834.9 | 10416.6 | 9867.0 | 9531.5 |
| 7.5° | 7701.1 | 8143.7 | 9077.5 | 9971.1 | 10766.4 | 11236.1 | 11224.7 | 10743.5 | 9974.1 | 9078.8 | 8540.5 |
| 10° | 6948.7 | 7454.0 | 8524.8 | 9524.3 | 10368.1 | 10823.5 | 10647.9 | 10032.5 | 9114.6 | 8083.7 | 7499.8 |
| 12.5° | 6527.5 | 7022.9 | 8109.4 | 9113.0 | 9818.4 | 9975.5 | 9841.2 | 9238.8 | 8373.6 | 7331.2 | 6820.2 |
| 15° | 6454.7 | 6998.6 | 7943.8 | 8760.5 | 9156.0 | 9018.9 | 8858.9 | 8589.1 | 7978.0 | 7088.5 | 6556.1 |
| 17.5° | 6770.3 | 7369.9 | 8133.8 | 8514.9 | 8447.8 | 8209.3 | 8163.6 | 8193.6 | 8046.6 | 7358.5 | 6744.6 |
| 20° | 7375.5 | 8095.2 | 8586.3 | 8399.2 | 7909.5 | 7581.2 | 7592.6 | 8050.9 | 8486.3 | 8042.3 | 7341.3 |
| 22.5° | 8225.1 | 9046.0 | 9238.8 | 8460.6 | 7682.6 | 7292.8 | 7387.0 | 8129.4 | 9187.3 | 9041.7 | 8146.5 |
| 25° | 9324.3 | 10072.5 | 9934.0 | 8683.3 | 7705.4 | 7328.5 | 7404.1 | 8400.7 | 10015.5 | 10041.2 | 9143.0 |
| 27.5° | 10389.4 | 11083.4 | 10518.0 | 8978.9 | 7799.7 | 7412.8 | 7512.6 | 8827.6 | 10806.4 | 11126.1 | 10282.4 |
| 30° | 11220.4 | 11702.9 | 10749.3 | 9248.7 | 7985.3 | 7576.8 | 7701.1 | 9233.0 | 11166.1 | 11858.5 | 11159.0 |
| 32.5° | 11908.6 | 12255.4 | 11117.7 | 9582.8 | 8326.4 | 7835.2 | 8053.8 | 9725.6 | 11684.4 | 12555.3 | 12017.0 |
| 35° | 12788.0 | 12886.5 | 11575.9 | 9955.5 | 8853.2 | 8285.0 | 8556.3 | 10208.2 | 12178.4 | 13259.2 | 12862.3 |
| 37.5° | 13818.8 | 13691.7 | 12008.5 | 10465.2 | 9534.3 | 8988.9 | 9213.0 | 10737.8 | 12585.3 | 14057.2 | 13726.0 |
| 40° | 14838.3 | 14532.7 | 12550.9 | 11256.1 | 10528.0 | 9818.4 | 10084.0 | 11303.3 | 12965.1 | 14856.8 | 14569.8 |
| 42.5° | 15704.9 | 15252.2 | 13086.4 | 12125.6 | 11453.1 | 10733.6 | 11050.5 | 11872.9 | 13327.8 | 15539.2 | 15302.3 |
| 45° | 16345.9 | 15783.4 | 13596.0 | 12960.7 | 12728.1 | 11950.0 | 12099.9 | 12525.3 | 13720.4 | 16108.9 | 15904.8 |
| 47.5° | 16918.4 | 16317.4 | 14172.9 | 13803.1 | 13843.2 | 13531.9 | 13290.7 | 13284.9 | 14182.9 | 16574.4 | 16474.3 |
| 50° | 17685.1 | 17058.4 | 14792.5 | 14671.2 | 15516.5 | 15309.4 | 14776.8 | 14171.5 | 14768.2 | 17102.7 | 17091.2 |
| 52.5° | 18741.6 | 18231.9 | 15549.2 | 15606.3 | 17078.2 | 17214.0 | 16554.3 | 15236.5 | 15684.9 | 18072.0 | 18003.6 |
| 55° | 19990.8 | 19693.9 | 16580.0 | 16681.3 | 18994.3 | 19091.4 | 18436.0 | 16568.6 | 17032.7 | 19475.4 | 19285.5 |
| 57.5° | 20966.0 | 20903.2 | 17710.9 | 17972.1 | 20424.9 | 20861.8 | 20259.3 | 18110.5 | 18551.6 | 20657.7 | 20180.8 |
| 60° | 21354.2 | 21658.5 | 18914.4 | 19274.2 | 21748.3 | 22232.3 | 21704.0 | 19465.5 | 19898.0 | 21147.3 | 20119.3 |
| 62.5° | 21144.5 | 21824.1 | 20196.5 | 20166.5 | 22043.9 | 22565.1 | 22193.9 | 20219.3 | 20896.1 | 20642.0 | 19101.4 |
| 65° | 20175.0 | 21228.7 | 20940.3 | 19936.7 | 21033.0 | 21075.9 | 20956.0 | 19882.4 | 21131.5 | 19044.2 | 17134.0 |
| 67.5° | 18063.5 | 19579.6 | 19960.9 | 17966.3 | 18306.1 | 18027.7 | 17826.4 | 18037.7 | 19903.7 | 16649.9 | 14399.9 |
| 70° | 14712.6 | 16994.0 | 17176.9 | 14369.9 | 14215.8 | 14028.7 | 13627.5 | 14788.3 | 17480.9 | 13646.2 | 11426.0 |
| 72.5° | 10817.7 | 13216.4 | 13777.5 | 10539.4 | 9825.5 | 9864.1 | 9547.1 | 11144.7 | 14213.0 | 10136.7 | 8530.6 |
| 75° | 7401.2 | 9570.0 | 10779.2 | 7354.2 | 6497.5 | 6513.3 | 6473.2 | 7896.7 | 11320.4 | 7051.4 | 6383.3 |
| 77.5° | 5406.8 | 6837.3 | 8129.4 | 4944.2 | 4800.0 | 4711.5 | 4690.1 | 5525.2 | 8679.1 | 5119.8 | 4957.0 |
| 80° | 4338.9 | 5051.3 | 5460.9 | 3426.6 | 3684.9 | 3677.8 | 3559.3 | 3799.1 | 5668.0 | 3744.9 | 3707.8 |
| 82.5° | 3009.6 | 3881.9 | 4424.5 | 2685.6 | 2487.0 | 2445.6 | 2474.2 | 2829.8 | 4006.3 | 2559.9 | 2434.2 |
| 85° | 1587.7 | 2578.4 | 4381.7 | 2380.0 | 1476.3 | 1177.9 | 1464.9 | 2317.2 | 3470.8 | 1356.4 | 1187.9 |
| 87.5° | 202.7 | 745.2 | 2901.2 | 949.4 | 582.6 | 314.0 | 695.3 | 1305.0 | 2228.7 | 276.9 | 241.3 |
| 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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CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8774.7 | 8774.7 | 8774.7 | 8774.7 | 8774.7 | 8774.7 | 8774.7 | 8774.7 | 8774.7 | 8774.7 | 8774.7 |
| 2.5° | 9520.0 | 9330.1 | 9081.7 | 8851.8 | 8613.4 | 8376.3 | 8066.6 | 7872.3 | 7738.2 | 7712.5 | 7655.4 |
| 5° | 9288.7 | 8657.7 | 8180.9 | 7768.3 | 7394.0 | 6865.8 | 6573.2 | 6330.4 | 6200.6 | 6187.7 | 6156.4 |
| 7.5° | 8222.1 | 7351.3 | 6707.5 | 6123.4 | 5593.7 | 5167.0 | 4695.7 | 4475.9 | 4386.0 | 4407.4 | 4428.7 |
| 10° | 7112.9 | 6139.1 | 5399.6 | 4802.8 | 4335.9 | 3976.2 | 3597.8 | 3342.2 | 3165.3 | 3129.5 | 3122.4 |
| 12.5° | 6301.9 | 5234.1 | 4515.9 | 4094.7 | 3733.4 | 3395.1 | 2994.0 | 2692.7 | 2462.9 | 2384.3 | 2331.5 |
| 15° | 5959.3 | 4791.4 | 4039.0 | 3585.0 | 3186.6 | 2756.9 | 2384.3 | 2068.7 | 1857.4 | 1789.0 | 1750.3 |
| 17.5° | 6032.1 | 4668.6 | 3710.5 | 3129.5 | 2619.8 | 2171.6 | 1701.7 | 1432.0 | 1305.0 | 1272.1 | 1272.1 |
| 20° | 6414.6 | 4645.8 | 3439.4 | 2709.7 | 2074.5 | 1554.7 | 1169.4 | 1015.2 | 973.8 | 969.5 | 980.8 |
| 22.5° | 6951.5 | 4725.8 | 3236.7 | 2345.7 | 1611.9 | 1135.0 | 910.9 | 853.7 | 835.2 | 839.5 | 852.3 |
| 25° | 7751.0 | 4995.6 | 3089.6 | 2021.6 | 1265.0 | 929.4 | 812.3 | 778.1 | 769.6 | 780.9 | 796.6 |
| 27.5° | 8699.0 | 5265.4 | 2998.3 | 1777.4 | 1067.9 | 849.4 | 772.5 | 736.7 | 742.4 | 756.7 | 770.9 |
| 30° | 9531.5 | 5486.7 | 2853.9 | 1603.4 | 1006.6 | 853.7 | 772.5 | 723.9 | 718.1 | 721.0 | 725.3 |
| 32.5° | 10278.0 | 5636.7 | 2685.6 | 1437.6 | 868.0 | 758.1 | 721.0 | 713.9 | 682.4 | 671.0 | 672.4 |
| 35° | 10922.0 | 5636.7 | 2584.2 | 1340.6 | 778.1 | 672.4 | 612.5 | 576.8 | 561.1 | 562.5 | 578.1 |
| 37.5° | 11543.1 | 5523.8 | 2534.2 | 1286.4 | 729.6 | 639.7 | 586.9 | 555.4 | 534.0 | 529.7 | 532.5 |
| 40° | 12091.2 | 5359.6 | 2477.0 | 1263.6 | 692.5 | 619.7 | 569.6 | 544.0 | 521.0 | 514.0 | 515.4 |
| 42.5° | 12531.0 | 5226.9 | 2414.3 | 1233.6 | 669.5 | 605.4 | 558.2 | 535.4 | 509.7 | 502.5 | 501.2 |
| 45° | 13006.5 | 5182.6 | 2331.5 | 1173.5 | 681.0 | 606.7 | 555.4 | 531.1 | 505.3 | 496.9 | 494.0 |
| 47.5° | 13633.2 | 5321.1 | 2245.9 | 1102.2 | 705.3 | 613.9 | 559.6 | 531.1 | 503.9 | 496.9 | 494.0 |
| 50° | 14422.7 | 5646.6 | 2137.2 | 997.9 | 681.0 | 633.9 | 558.2 | 526.9 | 503.9 | 496.9 | 491.2 |
| 52.5° | 15436.5 | 6086.3 | 1994.4 | 878.1 | 666.7 | 682.4 | 555.4 | 518.2 | 496.9 | 486.8 | 476.9 |
| 55° | 16668.6 | 6446.1 | 1824.5 | 779.5 | 633.9 | 669.5 | 551.1 | 508.4 | 485.4 | 471.2 | 462.5 |
| 57.5° | 17570.8 | 6576.0 | 1606.2 | 715.3 | 588.2 | 648.1 | 545.5 | 495.4 | 471.2 | 459.8 | 448.3 |
| 60° | 17392.4 | 6324.7 | 1421.9 | 675.3 | 561.1 | 585.3 | 541.0 | 483.9 | 458.2 | 449.7 | 439.7 |
| 62.5° | 15963.3 | 5668.0 | 1303.5 | 656.8 | 544.0 | 534.0 | 545.5 | 472.6 | 446.8 | 438.4 | 435.5 |
| 65° | 13820.2 | 4698.7 | 1256.4 | 652.4 | 529.7 | 503.9 | 506.9 | 459.8 | 434.1 | 426.9 | 424.0 |
| 67.5° | 11400.3 | 3792.0 | 1215.0 | 666.7 | 511.1 | 482.6 | 468.2 | 442.5 | 421.1 | 413.9 | 408.3 |
| 70° | 8990.2 | 3153.8 | 1196.5 | 658.2 | 488.3 | 461.2 | 445.5 | 424.0 | 405.5 | 398.3 | 394.0 |
| 72.5° | 7239.9 | 2664.2 | 1186.4 | 649.7 | 458.2 | 432.7 | 418.3 | 399.7 | 379.8 | 376.8 | 372.6 |
| 75° | 6126.4 | 2094.5 | 1086.5 | 622.4 | 424.0 | 398.3 | 388.3 | 371.2 | 351.1 | 351.1 | 348.4 |
| 77.5° | 4725.8 | 1514.8 | 903.8 | 551.1 | 388.3 | 359.9 | 351.1 | 338.4 | 315.6 | 319.7 | 318.4 |
| 80° | 3490.8 | 988.0 | 706.7 | 456.9 | 344.1 | 316.9 | 312.7 | 299.9 | 275.5 | 281.3 | 281.3 |
| 82.5° | 2391.4 | 648.1 | 508.4 | 374.1 | 294.1 | 268.5 | 268.5 | 255.6 | 228.3 | 231.4 | 239.8 |
| 85° | 1200.8 | 445.5 | 379.8 | 289.9 | 228.3 | 215.7 | 215.7 | 205.6 | 178.5 | 179.9 | 191.2 |
| 87.5° | 365.5 | 268.5 | 251.3 | 207.0 | 164.2 | 161.3 | 154.1 | 147.1 | 130.0 | 128.5 | 135.6 |
| 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-SLL-7027-800

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8774.7 | 8774.7 | 8774.7 | 8774.7 | 8774.7 | 8774.7 | 8774.7 | 8774.7 | 8774.7 | 8774.7 | 8774.7 |
| 2.5° | 7568.3 | 7487.0 | 7388.4 | 7171.3 | 7098.5 | 7094.4 | 7160.0 | 7091.5 | 7222.8 | 7167.1 | 7228.5 |
| 5° | 6103.4 | 6023.6 | 5913.6 | 5636.7 | 5468.2 | 5353.9 | 5299.7 | 5139.7 | 5255.4 | 5171.2 | 5241.2 |
| 7.5° | 4488.7 | 4507.2 | 4434.5 | 4271.7 | 3904.8 | 3720.6 | 3612.2 | 3515.1 | 3599.2 | 3590.6 | 3724.9 |
| 10° | 3155.2 | 3205.2 | 3153.8 | 2989.6 | 2692.7 | 2591.3 | 2611.4 | 2649.8 | 2759.8 | 2816.8 | 3024.0 |
| 12.5° | 2271.5 | 2268.6 | 2235.8 | 2088.7 | 1893.2 | 1904.5 | 1986.0 | 2053.0 | 2154.4 | 2214.4 | 2425.8 |
| 15° | 1696.1 | 1670.4 | 1656.1 | 1536.2 | 1424.8 | 1449.1 | 1489.1 | 1496.2 | 1560.4 | 1596.2 | 1767.5 |
| 17.5° | 1282.2 | 1294.9 | 1310.6 | 1225.0 | 1140.8 | 1125.0 | 1093.6 | 1055.1 | 1073.7 | 1080.8 | 1166.4 |
| 20° | 1018.0 | 1069.3 | 1107.9 | 1048.0 | 962.3 | 916.6 | 876.7 | 851.0 | 851.0 | 849.4 | 873.7 |
| 22.5° | 889.4 | 926.6 | 968.1 | 926.6 | 849.4 | 809.6 | 786.6 | 766.7 | 763.7 | 763.7 | 786.6 |
| 25° | 819.6 | 846.7 | 886.5 | 858.1 | 801.0 | 770.9 | 749.5 | 723.9 | 713.9 | 711.0 | 726.6 |
| 27.5° | 785.3 | 796.6 | 816.6 | 791.0 | 742.4 | 728.2 | 722.4 | 699.6 | 686.8 | 679.6 | 695.3 |
| 30° | 726.6 | 723.9 | 725.3 | 699.6 | 661.1 | 659.5 | 669.5 | 673.9 | 669.5 | 668.2 | 692.5 |
| 32.5° | 672.4 | 666.7 | 665.4 | 642.5 | 606.7 | 598.2 | 606.7 | 615.3 | 625.3 | 639.7 | 668.2 |
| 35° | 603.9 | 618.3 | 626.7 | 606.7 | 564.0 | 538.3 | 528.3 | 512.6 | 503.9 | 503.9 | 536.7 |
| 37.5° | 549.7 | 582.6 | 595.3 | 576.8 | 529.7 | 494.0 | 476.9 | 473.9 | 475.5 | 481.1 | 512.6 |
| 40° | 531.1 | 555.4 | 566.8 | 548.2 | 501.2 | 468.2 | 458.2 | 455.4 | 458.2 | 466.8 | 498.3 |
| 42.5° | 519.7 | 536.7 | 535.4 | 512.6 | 473.9 | 451.2 | 445.5 | 442.5 | 445.5 | 454.1 | 488.3 |
| 45° | 509.7 | 521.0 | 509.7 | 482.6 | 446.8 | 435.5 | 436.8 | 435.5 | 438.4 | 446.8 | 479.8 |
| 47.5° | 501.2 | 505.3 | 491.2 | 464.1 | 426.9 | 424.0 | 429.7 | 434.1 | 436.8 | 444.0 | 478.3 |
| 50° | 488.3 | 488.3 | 475.5 | 446.8 | 409.7 | 411.2 | 418.3 | 428.3 | 429.7 | 438.4 | 465.4 |
| 52.5° | 472.6 | 471.2 | 462.5 | 435.5 | 395.4 | 399.7 | 399.7 | 411.2 | 413.9 | 424.0 | 452.6 |
| 55° | 459.8 | 456.9 | 452.6 | 426.9 | 382.6 | 389.8 | 385.6 | 389.8 | 397.0 | 406.9 | 438.4 |
| 57.5° | 448.3 | 442.5 | 442.5 | 419.8 | 372.6 | 375.5 | 365.5 | 371.2 | 379.8 | 388.3 | 421.1 |
| 60° | 436.8 | 431.1 | 434.1 | 409.7 | 356.9 | 354.1 | 349.8 | 361.2 | 364.1 | 374.1 | 406.9 |
| 62.5° | 424.0 | 419.8 | 421.1 | 398.3 | 345.5 | 338.4 | 338.4 | 348.4 | 349.8 | 364.1 | 395.4 |
| 65° | 413.9 | 408.3 | 406.9 | 386.9 | 332.6 | 324.1 | 328.4 | 332.6 | 335.4 | 349.8 | 379.8 |
| 67.5° | 404.1 | 392.6 | 392.6 | 376.8 | 318.4 | 309.8 | 318.4 | 316.9 | 321.2 | 334.1 | 358.3 |
| 70° | 391.2 | 375.5 | 376.8 | 369.8 | 304.0 | 294.1 | 301.2 | 299.9 | 302.6 | 311.3 | 335.4 |
| 72.5° | 371.2 | 358.3 | 361.2 | 358.3 | 289.9 | 275.5 | 278.5 | 278.5 | 278.5 | 285.5 | 311.3 |
| 75° | 345.5 | 335.4 | 344.1 | 351.1 | 272.6 | 252.8 | 255.6 | 255.6 | 251.3 | 255.6 | 287.0 |
| 77.5° | 314.0 | 308.4 | 337.0 | 327.0 | 252.8 | 228.3 | 228.3 | 225.6 | 217.0 | 222.7 | 256.9 |
| 80° | 279.8 | 275.5 | 311.3 | 274.2 | 229.8 | 198.4 | 195.7 | 188.5 | 179.9 | 184.2 | 218.5 |
| 82.5° | 244.1 | 239.8 | 261.2 | 209.8 | 198.4 | 164.2 | 157.1 | 144.2 | 135.6 | 140.0 | 171.3 |
| 85° | 200.0 | 200.0 | 201.3 | 158.6 | 151.4 | 125.7 | 117.0 | 99.9 | 89.9 | 92.9 | 122.8 |
| 87.5° | 142.8 | 147.1 | 135.6 | 108.5 | 89.9 | 70.0 | 64.3 | 54.3 | 45.6 | 52.8 | 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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| 25° | 772.5 | 846.7 | 1053.6 | 1720.4 | 2836.8 | 4982.7 | 8026.6 | 9324.3 |
| 27.5° | 735.3 | 802.4 | 956.5 | 1499.1 | 2709.7 | 5311.0 | 8904.7 | 10389.4 |
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| 32.5° | 675.3 | 705.3 | 796.6 | 1286.4 | 2412.8 | 5815.1 | 10366.6 | 11908.6 |
| 35° | 575.4 | 628.2 | 711.0 | 1239.2 | 2415.7 | 5969.2 | 11110.4 | 12788.0 |
| 37.5° | 548.2 | 601.1 | 661.1 | 1222.1 | 2448.5 | 6133.4 | 11964.3 | 13818.8 |
| 40° | 531.1 | 579.6 | 631.1 | 1212.2 | 2480.0 | 6283.4 | 12800.8 | 14838.3 |
| 42.5° | 519.7 | 564.0 | 628.2 | 1177.9 | 2495.6 | 6417.6 | 13488.9 | 15704.9 |
| 45° | 518.2 | 564.0 | 639.7 | 1143.6 | 2519.9 | 6561.8 | 14065.8 | 16345.9 |
| 47.5° | 519.7 | 582.6 | 618.3 | 1102.2 | 2519.9 | 6803.0 | 14742.5 | 16918.4 |
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| 52.5° | 511.1 | 609.6 | 551.1 | 953.7 | 2359.9 | 7985.3 | 16859.8 | 18741.6 |
| 55° | 503.9 | 588.2 | 519.7 | 819.6 | 2241.5 | 8776.1 | 18133.4 | 19990.8 |
| 57.5° | 496.9 | 521.0 | 502.5 | 702.5 | 2058.7 | 9333.0 | 19010.0 | 20966.0 |
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| 62.5° | 515.4 | 426.9 | 469.8 | 632.4 | 1643.3 | 9057.4 | 18099.1 | 21144.5 |
| 65° | 404.1 | 408.3 | 451.2 | 669.5 | 1597.6 | 7922.4 | 16545.8 | 20175.0 |
| 67.5° | 369.8 | 389.8 | 432.7 | 716.7 | 1601.9 | 6343.3 | 14224.3 | 18063.5 |
| 70° | 348.4 | 369.8 | 411.2 | 741.0 | 1613.4 | 4728.6 | 11246.2 | 14712.6 |
| 72.5° | 324.1 | 342.7 | 386.9 | 745.2 | 1539.1 | 3435.1 | 8667.7 | 10817.7 |
| 75° | 295.5 | 312.7 | 352.7 | 649.7 | 1275.0 | 2382.8 | 6630.3 | 7401.2 |
| 77.5° | 262.8 | 275.5 | 309.8 | 501.2 | 946.5 | 1524.9 | 4977.0 | 5406.8 |
| 80° | 224.1 | 231.4 | 259.8 | 366.9 | 648.1 | 953.7 | 3937.6 | 4338.9 |
| 82.5° | 179.9 | 182.7 | 201.3 | 275.5 | 421.1 | 612.5 | 2637.0 | 3009.6 |
| 85° | 127.1 | 127.1 | 138.5 | 200.0 | 287.0 | 388.3 | 1432.0 | 1587.7 |
| 87.5° | 59.9 | 61.4 | 61.4 | 110.0 | 149.8 | 197.0 | 329.8 | 202.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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