

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: P266616

Luminaire Tested: **GAN-AF-01-LED-U-SLR-7027-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266616
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-01-LED-U-SLR-7027-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4759.2 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 59
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

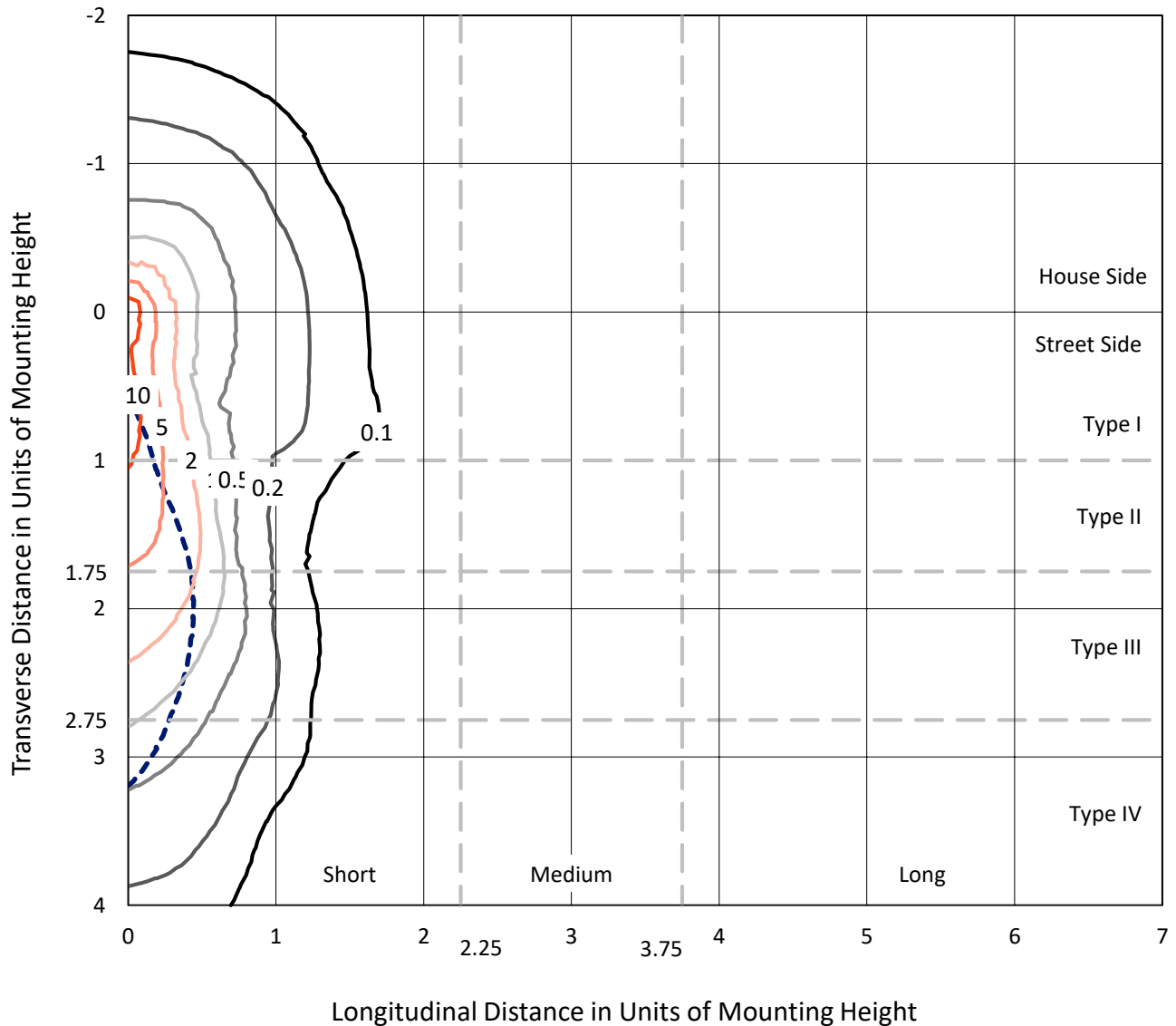


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Iso-Footcandle Lines of Horizontal Illumination

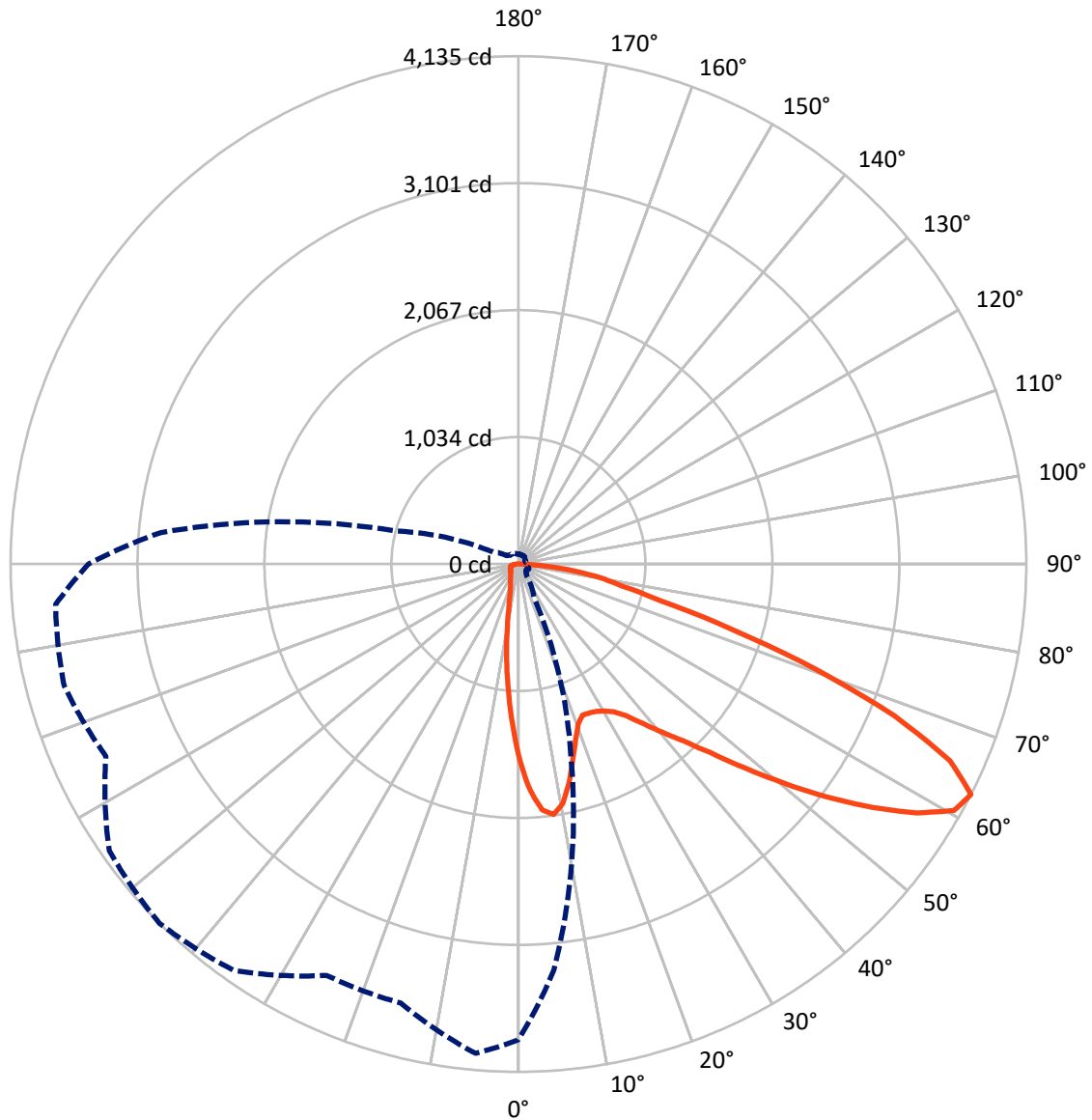
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 787.6 | 0.0 | 787.6 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 3971.6 | 0.0 | 3971.6 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 4759.2 | 0.0 | 4759.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 117.0 | 2.5 |
| 10°-20° | 214.6 | 4.5 |
| 20°-30° | 312.9 | 6.6 |
| 30°-40° | 482.0 | 10.1 |
| 40°-50° | 709.3 | 14.9 |
| 50°-60° | 1040.4 | 21.9 |
| 60°-70° | 1163.1 | 24.4 |
| 70°-80° | 569.4 | 12.0 |
| 80°-90° | 150.3 | 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° | 4759.2 | 100.0 |
| 0°-180° | 4759.2 | 100.0 |



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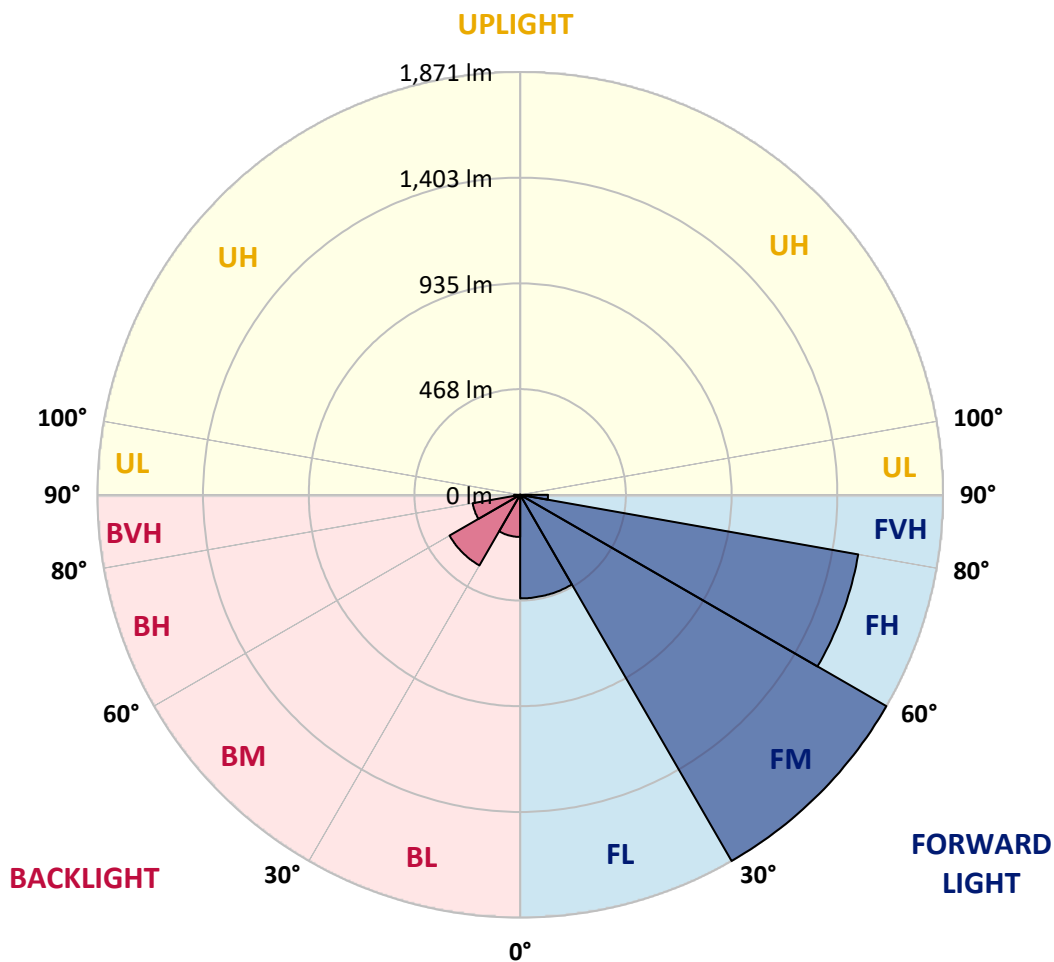
CATALOG NUMBER: GAN-AF-01-LED-U-SLR-7027-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 458.3 | 9.6 | | | |
| FM | (30°-60°) | 1870.9 | 39.3 | | | |
| FH | (60°-80°) | 1519.0 | 31.9 | | | G1/1800 |
| FVH | (80°-90°) | 123.5 | 2.6 | | | G2/225 |
| BL | (0°-30°) | 186.3 | 3.9 | B1/500 | | |
| BM | (30°-60°) | 360.9 | 7.6 | B1/1000 | | |
| BH | (60°-80°) | 213.5 | 4.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 26.9 | 0.6 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CATALOG NUMBER: GAN-AF-01-LED-U-SLR-7027-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1608.0 | 1608.0 | 1608.0 | 1608.0 | 1608.0 | 1608.0 | 1608.0 | 1608.0 | 1608.0 | 1608.0 | 1608.0 |
| 2.5° | 1670.7 | 1636.7 | 1580.2 | 1521.3 | 1485.4 | 1443.7 | 1410.9 | 1382.1 | 1324.6 | 1313.3 | 1323.6 |
| 5° | 1571.0 | 1502.8 | 1396.2 | 1289.0 | 1217.7 | 1140.9 | 1081.3 | 1033.4 | 960.4 | 947.6 | 963.1 |
| 7.5° | 1411.1 | 1329.5 | 1188.7 | 1051.9 | 950.9 | 855.2 | 790.9 | 739.7 | 682.5 | 658.0 | 659.5 |
| 10° | 1273.3 | 1181.2 | 1014.8 | 866.0 | 783.3 | 718.6 | 664.6 | 611.9 | 554.2 | 516.2 | 505.7 |
| 12.5° | 1196.2 | 1090.2 | 898.5 | 765.4 | 688.8 | 620.8 | 562.5 | 506.3 | 444.5 | 405.8 | 394.7 |
| 15° | 1182.8 | 1067.6 | 854.6 | 701.1 | 605.1 | 519.0 | 450.2 | 387.4 | 323.8 | 292.5 | 285.9 |
| 17.5° | 1240.6 | 1108.0 | 840.5 | 643.8 | 526.3 | 420.1 | 335.6 | 265.5 | 213.7 | 198.0 | 196.8 |
| 20° | 1351.5 | 1185.5 | 838.7 | 589.9 | 448.7 | 324.2 | 233.9 | 182.8 | 160.1 | 155.6 | 155.9 |
| 22.5° | 1507.1 | 1305.4 | 861.2 | 549.5 | 377.3 | 241.7 | 175.8 | 153.0 | 144.2 | 140.0 | 140.0 |
| 25° | 1708.7 | 1470.9 | 913.0 | 519.8 | 315.2 | 193.0 | 155.1 | 141.6 | 133.2 | 130.3 | 130.9 |
| 27.5° | 1903.8 | 1631.7 | 973.3 | 496.6 | 274.7 | 175.3 | 147.1 | 134.7 | 127.4 | 124.5 | 125.9 |
| 30° | 2056.1 | 1774.5 | 1023.4 | 465.0 | 254.0 | 170.3 | 149.8 | 137.4 | 126.9 | 122.3 | 122.7 |
| 32.5° | 2182.2 | 1899.6 | 1065.6 | 442.1 | 235.7 | 146.0 | 129.3 | 123.7 | 122.3 | 117.1 | 114.7 |
| 35° | 2343.3 | 2035.9 | 1093.9 | 442.7 | 227.1 | 130.3 | 115.2 | 105.5 | 98.4 | 92.3 | 92.3 |
| 37.5° | 2532.2 | 2192.4 | 1123.9 | 448.7 | 223.9 | 121.1 | 110.1 | 100.5 | 94.0 | 88.2 | 87.1 |
| 40° | 2719.0 | 2345.7 | 1151.4 | 454.5 | 222.2 | 115.6 | 106.2 | 97.3 | 91.3 | 85.6 | 84.0 |
| 42.5° | 2877.8 | 2471.7 | 1176.1 | 457.2 | 215.9 | 115.2 | 103.3 | 95.2 | 89.6 | 83.3 | 81.7 |
| 45° | 2995.3 | 2577.4 | 1202.4 | 461.8 | 209.6 | 117.1 | 103.3 | 95.0 | 87.9 | 81.8 | 80.3 |
| 47.5° | 3100.2 | 2701.6 | 1246.6 | 461.8 | 201.9 | 113.2 | 106.8 | 95.2 | 87.7 | 81.3 | 80.0 |
| 50° | 3240.6 | 2871.5 | 1330.3 | 450.9 | 191.2 | 109.1 | 112.5 | 94.2 | 85.2 | 80.3 | 78.7 |
| 52.5° | 3434.3 | 3089.5 | 1463.2 | 432.4 | 174.8 | 101.0 | 111.7 | 93.7 | 83.0 | 77.8 | 75.8 |
| 55° | 3663.2 | 3322.8 | 1608.1 | 410.7 | 150.1 | 95.2 | 107.7 | 92.3 | 80.3 | 74.6 | 72.8 |
| 57.5° | 3842.0 | 3483.4 | 1710.3 | 377.3 | 128.6 | 92.0 | 95.5 | 91.1 | 77.2 | 71.1 | 69.6 |
| 60° | 3913.0 | 3477.2 | 1738.2 | 332.6 | 118.2 | 89.6 | 83.5 | 102.0 | 74.6 | 68.5 | 66.7 |
| 62.5° | 3874.6 | 3316.5 | 1659.7 | 301.1 | 115.9 | 86.1 | 78.2 | 94.4 | 72.5 | 66.7 | 64.0 |
| 65° | 3697.0 | 3031.9 | 1451.8 | 292.8 | 122.7 | 82.6 | 74.7 | 74.0 | 69.6 | 64.0 | 61.4 |
| 67.5° | 3310.1 | 2606.5 | 1162.3 | 293.6 | 131.3 | 79.3 | 71.4 | 67.7 | 65.7 | 61.3 | 58.8 |
| 70° | 2696.1 | 2060.8 | 866.4 | 295.6 | 135.7 | 75.4 | 67.7 | 63.8 | 61.4 | 57.0 | 55.4 |
| 72.5° | 1982.3 | 1588.4 | 629.4 | 282.0 | 136.5 | 70.8 | 62.8 | 59.4 | 57.0 | 52.3 | 51.1 |
| 75° | 1356.3 | 1215.0 | 436.7 | 233.6 | 119.0 | 64.6 | 57.3 | 54.2 | 52.6 | 46.8 | 46.1 |
| 77.5° | 990.7 | 912.0 | 279.5 | 173.5 | 91.8 | 56.8 | 50.5 | 48.1 | 47.2 | 40.9 | 39.7 |
| 80° | 795.1 | 721.6 | 174.8 | 118.8 | 67.3 | 47.6 | 42.4 | 41.1 | 40.1 | 33.7 | 33.0 |
| 82.5° | 551.5 | 483.2 | 112.3 | 77.2 | 50.5 | 36.9 | 33.4 | 33.0 | 31.4 | 25.6 | 24.9 |
| 85° | 291.0 | 262.5 | 71.1 | 52.6 | 36.7 | 25.4 | 23.3 | 23.3 | 22.5 | 17.0 | 16.4 |
| 87.5° | 37.2 | 60.5 | 36.1 | 27.5 | 20.1 | 11.3 | 11.3 | 11.0 | 11.8 | 9.7 | 8.4 |
| 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-01-LED-U-SLR-7027-ADJ

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1608.0 | 1608.0 | 1608.0 | 1608.0 | 1608.0 | 1608.0 | 1608.0 | 1608.0 | 1608.0 | 1608.0 | 1608.0 |
| 2.5° | 1299.5 | 1312.1 | 1299.9 | 1300.7 | 1314.1 | 1353.8 | 1371.9 | 1386.9 | 1402.9 | 1413.3 | 1418.0 |
| 5° | 941.9 | 971.2 | 981.0 | 1002.0 | 1033.0 | 1083.6 | 1103.7 | 1118.4 | 1128.1 | 1133.9 | 1136.3 |
| 7.5° | 644.2 | 662.0 | 681.8 | 715.5 | 782.8 | 812.5 | 825.9 | 822.6 | 811.6 | 807.7 | 803.8 |
| 10° | 485.5 | 478.4 | 474.8 | 493.3 | 547.8 | 577.9 | 587.3 | 578.1 | 572.2 | 573.5 | 580.0 |
| 12.5° | 376.2 | 364.0 | 349.0 | 346.9 | 382.8 | 409.6 | 415.7 | 416.3 | 427.2 | 436.8 | 451.3 |
| 15° | 274.3 | 272.8 | 265.5 | 261.0 | 281.4 | 303.4 | 306.1 | 310.9 | 320.8 | 327.8 | 340.4 |
| 17.5° | 193.3 | 200.4 | 206.2 | 209.0 | 224.4 | 240.1 | 237.3 | 234.9 | 233.1 | 233.1 | 239.0 |
| 20° | 155.9 | 160.6 | 168.0 | 176.3 | 192.1 | 202.9 | 196.0 | 186.6 | 179.8 | 177.7 | 178.5 |
| 22.5° | 140.4 | 144.2 | 148.3 | 155.6 | 169.8 | 177.3 | 169.8 | 163.0 | 156.1 | 153.8 | 153.0 |
| 25° | 132.6 | 137.4 | 141.3 | 146.8 | 157.3 | 162.5 | 155.1 | 150.1 | 146.0 | 143.1 | 141.0 |
| 27.5° | 128.2 | 132.4 | 133.4 | 136.1 | 144.9 | 149.7 | 146.0 | 143.9 | 141.3 | 138.7 | 136.1 |
| 30° | 123.4 | 122.7 | 120.8 | 121.1 | 128.2 | 132.9 | 132.6 | 133.2 | 132.9 | 132.1 | 131.6 |
| 32.5° | 112.7 | 111.2 | 109.7 | 111.2 | 117.8 | 121.9 | 122.2 | 123.2 | 123.2 | 123.0 | 125.0 |
| 35° | 94.0 | 96.7 | 98.6 | 103.3 | 111.2 | 114.9 | 113.2 | 110.8 | 106.0 | 103.0 | 102.9 |
| 37.5° | 86.9 | 87.3 | 90.5 | 97.0 | 105.7 | 109.1 | 106.8 | 100.7 | 97.6 | 97.0 | 97.8 |
| 40° | 83.5 | 84.0 | 85.8 | 91.8 | 100.5 | 103.8 | 101.8 | 97.3 | 94.4 | 94.2 | 95.5 |
| 42.5° | 81.0 | 81.7 | 82.6 | 86.9 | 94.0 | 98.2 | 98.4 | 95.2 | 91.8 | 92.0 | 93.5 |
| 45° | 79.8 | 80.0 | 79.8 | 81.8 | 88.5 | 93.5 | 95.5 | 93.5 | 90.5 | 91.1 | 92.6 |
| 47.5° | 79.5 | 78.7 | 77.8 | 78.2 | 85.0 | 90.0 | 92.6 | 91.8 | 90.5 | 91.1 | 92.3 |
| 50° | 78.5 | 76.6 | 75.4 | 75.1 | 81.8 | 87.1 | 89.6 | 89.6 | 90.0 | 91.1 | 92.3 |
| 52.5° | 75.4 | 73.2 | 73.2 | 72.5 | 79.8 | 84.8 | 86.3 | 86.5 | 87.3 | 89.2 | 91.1 |
| 55° | 71.4 | 70.6 | 71.4 | 70.1 | 78.2 | 83.0 | 83.7 | 84.3 | 84.8 | 86.3 | 88.9 |
| 57.5° | 68.0 | 67.0 | 68.8 | 68.4 | 77.0 | 81.0 | 81.0 | 82.1 | 82.1 | 84.3 | 86.3 |
| 60° | 66.1 | 64.0 | 64.9 | 65.3 | 75.1 | 79.5 | 79.1 | 80.0 | 80.6 | 82.5 | 84.0 |
| 62.5° | 63.8 | 62.1 | 62.1 | 63.3 | 73.0 | 77.2 | 77.0 | 77.8 | 79.8 | 80.3 | 81.8 |
| 65° | 60.9 | 60.1 | 59.4 | 60.9 | 70.8 | 74.6 | 74.7 | 75.8 | 77.8 | 78.2 | 79.5 |
| 67.5° | 58.1 | 58.3 | 56.8 | 58.3 | 69.1 | 72.0 | 72.0 | 74.0 | 74.7 | 75.8 | 77.2 |
| 70° | 54.9 | 55.2 | 53.9 | 55.8 | 67.7 | 69.1 | 68.8 | 71.7 | 72.3 | 73.0 | 74.3 |
| 72.5° | 51.1 | 51.1 | 50.5 | 53.1 | 65.7 | 66.1 | 65.7 | 68.0 | 68.4 | 69.1 | 69.6 |
| 75° | 46.8 | 46.8 | 46.4 | 49.9 | 64.4 | 63.1 | 61.4 | 63.3 | 63.8 | 64.4 | 64.4 |
| 77.5° | 41.3 | 41.9 | 41.9 | 46.4 | 59.8 | 61.8 | 56.6 | 57.5 | 58.3 | 58.6 | 57.9 |
| 80° | 34.6 | 35.8 | 36.4 | 42.1 | 50.2 | 57.0 | 50.5 | 51.3 | 51.6 | 51.6 | 50.5 |
| 82.5° | 26.4 | 28.7 | 30.2 | 36.4 | 38.4 | 47.9 | 43.9 | 44.7 | 43.9 | 42.4 | 41.9 |
| 85° | 18.3 | 21.5 | 23.0 | 27.8 | 29.0 | 36.9 | 36.7 | 36.7 | 35.0 | 33.0 | 32.7 |
| 87.5° | 9.9 | 11.8 | 12.8 | 16.4 | 19.9 | 24.9 | 26.9 | 26.2 | 24.9 | 23.5 | 23.9 |
| 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-01-LED-U-SLR-7027-ADJ

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1608.0 | 1608.0 | 1608.0 | 1608.0 | 1608.0 | 1608.0 | 1608.0 | 1608.0 | 1608.0 | 1608.0 | 1608.0 |
| 2.5° | 1442.6 | 1478.2 | 1534.9 | 1578.3 | 1622.0 | 1664.2 | 1709.7 | 1744.5 | 1774.1 | 1785.6 | 1820.7 |
| 5° | 1160.0 | 1204.4 | 1258.2 | 1355.0 | 1423.5 | 1499.1 | 1586.4 | 1702.1 | 1746.6 | 1808.1 | 1908.8 |
| 7.5° | 820.2 | 860.4 | 946.9 | 1025.1 | 1122.2 | 1229.2 | 1347.1 | 1506.6 | 1564.9 | 1663.7 | 1827.7 |
| 10° | 612.5 | 659.3 | 728.6 | 794.6 | 880.1 | 989.5 | 1124.9 | 1303.4 | 1374.2 | 1481.2 | 1670.2 |
| 12.5° | 493.3 | 548.7 | 622.2 | 684.1 | 750.4 | 827.5 | 959.1 | 1154.9 | 1249.7 | 1343.4 | 1534.5 |
| 15° | 379.1 | 436.8 | 505.1 | 584.0 | 656.9 | 740.2 | 878.1 | 1092.0 | 1201.4 | 1298.9 | 1461.9 |
| 17.5° | 262.5 | 311.8 | 397.9 | 480.1 | 573.5 | 679.9 | 855.5 | 1105.4 | 1235.9 | 1348.4 | 1474.5 |
| 20° | 185.9 | 214.2 | 284.9 | 380.2 | 496.6 | 630.3 | 851.4 | 1175.4 | 1345.2 | 1473.7 | 1555.1 |
| 22.5° | 156.5 | 166.9 | 208.0 | 295.4 | 429.8 | 593.2 | 866.0 | 1273.8 | 1492.9 | 1656.8 | 1683.6 |
| 25° | 142.7 | 148.8 | 170.3 | 231.9 | 370.5 | 566.1 | 915.5 | 1420.3 | 1675.3 | 1840.0 | 1835.2 |
| 27.5° | 134.9 | 141.6 | 155.6 | 195.7 | 325.7 | 549.5 | 964.9 | 1594.0 | 1884.1 | 2038.9 | 1980.3 |
| 30° | 132.6 | 141.6 | 156.5 | 184.4 | 293.7 | 523.0 | 1005.5 | 1746.6 | 2044.8 | 2173.0 | 2046.1 |
| 32.5° | 130.9 | 132.1 | 138.9 | 159.1 | 263.5 | 492.1 | 1033.0 | 1883.3 | 2202.0 | 2300.6 | 2141.1 |
| 35° | 105.7 | 112.3 | 123.2 | 142.7 | 245.6 | 473.5 | 1033.0 | 2001.5 | 2357.0 | 2429.6 | 2231.6 |
| 37.5° | 101.8 | 107.5 | 117.1 | 133.7 | 235.7 | 464.3 | 1012.2 | 2115.1 | 2515.3 | 2575.9 | 2306.2 |
| 40° | 99.7 | 104.5 | 113.5 | 126.9 | 231.6 | 454.0 | 982.1 | 2215.7 | 2669.9 | 2722.5 | 2375.7 |
| 42.5° | 98.2 | 102.2 | 110.9 | 122.7 | 226.1 | 442.3 | 957.9 | 2296.2 | 2804.0 | 2847.4 | 2442.2 |
| 45° | 97.3 | 101.8 | 111.2 | 124.8 | 215.1 | 427.2 | 949.7 | 2383.4 | 2914.5 | 2951.9 | 2514.1 |
| 47.5° | 97.3 | 102.5 | 112.5 | 129.3 | 201.9 | 411.6 | 975.1 | 2498.1 | 3018.8 | 3037.1 | 2598.9 |
| 50° | 96.6 | 102.2 | 116.2 | 124.8 | 182.8 | 391.7 | 1034.7 | 2642.9 | 3131.9 | 3133.9 | 2706.2 |
| 52.5° | 95.0 | 101.8 | 125.0 | 122.2 | 160.8 | 365.5 | 1115.2 | 2828.7 | 3299.0 | 3311.6 | 2874.1 |
| 55° | 93.2 | 101.0 | 122.7 | 116.2 | 142.8 | 334.3 | 1181.2 | 3054.3 | 3533.9 | 3568.7 | 3121.2 |
| 57.5° | 90.8 | 99.9 | 118.8 | 107.7 | 131.1 | 294.4 | 1205.0 | 3219.7 | 3698.1 | 3785.4 | 3399.5 |
| 60° | 88.8 | 99.2 | 107.3 | 102.9 | 123.7 | 260.6 | 1159.0 | 3187.0 | 3686.7 | 3875.1 | 3646.2 |
| 62.5° | 86.5 | 99.9 | 97.8 | 99.7 | 120.4 | 238.9 | 1038.6 | 2925.2 | 3500.2 | 3782.6 | 3829.0 |
| 65° | 84.3 | 92.9 | 92.3 | 97.0 | 119.6 | 230.2 | 860.9 | 2532.5 | 3139.7 | 3489.7 | 3872.2 |
| 67.5° | 81.0 | 85.8 | 88.5 | 93.7 | 122.2 | 222.6 | 694.8 | 2089.0 | 2638.7 | 3051.1 | 3647.3 |
| 70° | 77.8 | 81.7 | 84.5 | 89.6 | 120.6 | 219.2 | 577.9 | 1647.4 | 2093.7 | 2500.5 | 3203.3 |
| 72.5° | 73.2 | 76.6 | 79.3 | 84.0 | 119.0 | 217.4 | 488.1 | 1326.6 | 1563.2 | 1857.4 | 2604.5 |
| 75° | 68.0 | 71.1 | 73.0 | 77.8 | 114.1 | 199.1 | 383.8 | 1122.6 | 1169.8 | 1292.1 | 2074.4 |
| 77.5° | 62.1 | 64.4 | 65.9 | 71.1 | 101.0 | 165.6 | 277.5 | 866.0 | 908.4 | 938.2 | 1590.4 |
| 80° | 54.9 | 57.3 | 58.1 | 63.1 | 83.7 | 129.4 | 181.1 | 639.7 | 679.4 | 686.2 | 1038.6 |
| 82.5° | 46.8 | 49.1 | 49.1 | 53.9 | 68.5 | 93.2 | 118.8 | 438.3 | 446.1 | 469.0 | 734.2 |
| 85° | 37.6 | 39.4 | 39.4 | 41.9 | 53.1 | 69.6 | 81.7 | 220.1 | 217.7 | 248.6 | 636.0 |
| 87.5° | 26.9 | 28.2 | 29.6 | 30.2 | 38.0 | 46.1 | 49.1 | 67.0 | 44.1 | 50.8 | 408.4 |
| 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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