

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: P266693

Luminaire Tested: **GAN-AF-02-LED-U-SLR-7027-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266693
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-02-LED-U-SLR-7027-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6126.4 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

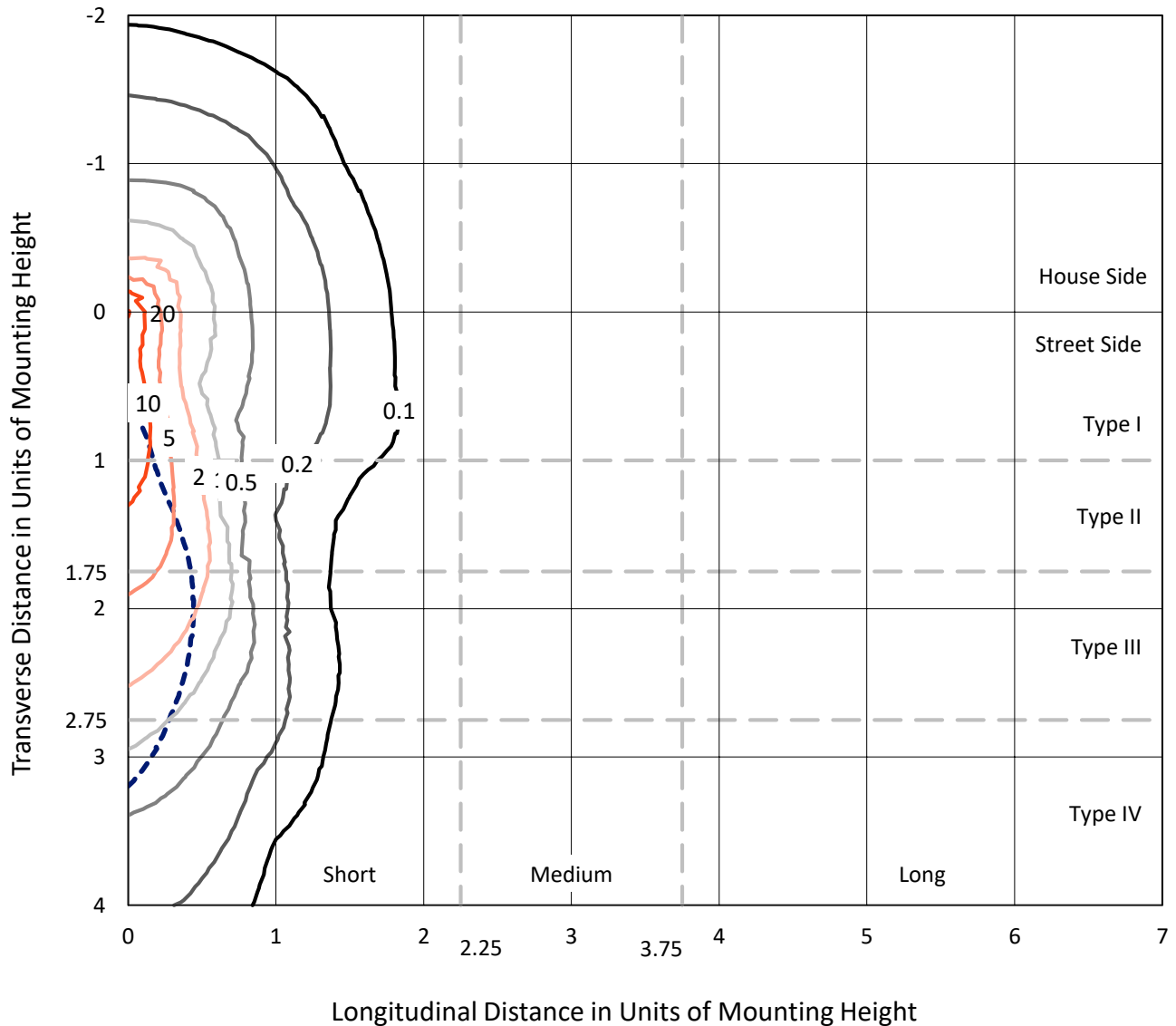


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CATALOG NUMBER: GAN-AF-02-LED-U-SLR-7027-600-ADJ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

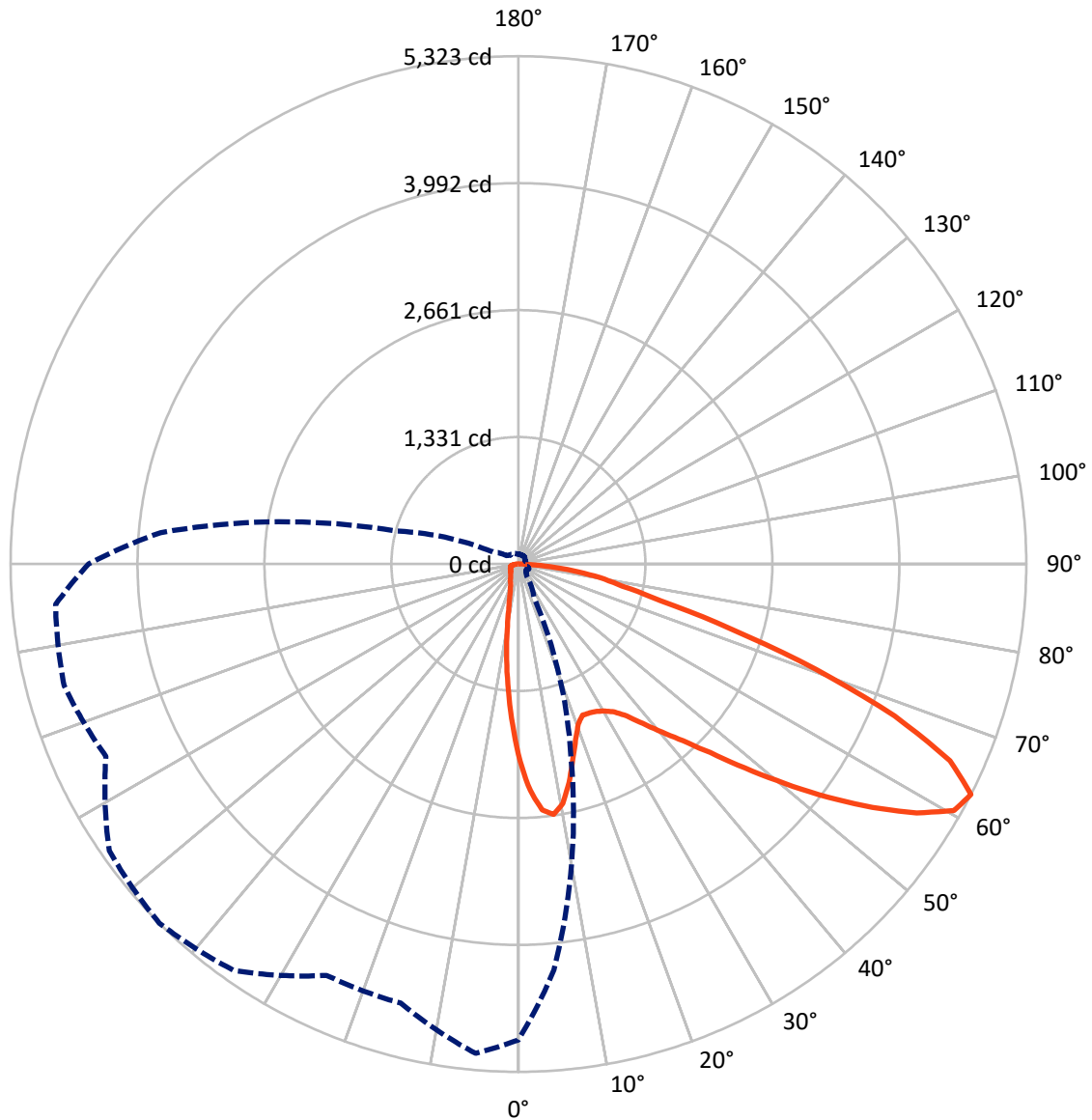


Based on 10 foot mounting height. Maximum calculated value = 20.7 fc
 Type IV - Short - Non-Cutoff

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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 | 1013.8 | 0.0 | 1013.8 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 5112.6 | 0.0 | 5112.6 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 6126.4 | 0.0 | 6126.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 150.7 | 2.5 |
| 10°-20° | 276.3 | 4.5 |
| 20°-30° | 402.8 | 6.6 |
| 30°-40° | 620.4 | 10.1 |
| 40°-50° | 913.1 | 14.9 |
| 50°-60° | 1339.3 | 21.9 |
| 60°-70° | 1497.2 | 24.4 |
| 70°-80° | 733.0 | 12.0 |
| 80°-90° | 193.5 | 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° | 6126.4 | 100.0 |
| 0°-180° | 6126.4 | 100.0 |

Coefficient of Utilization



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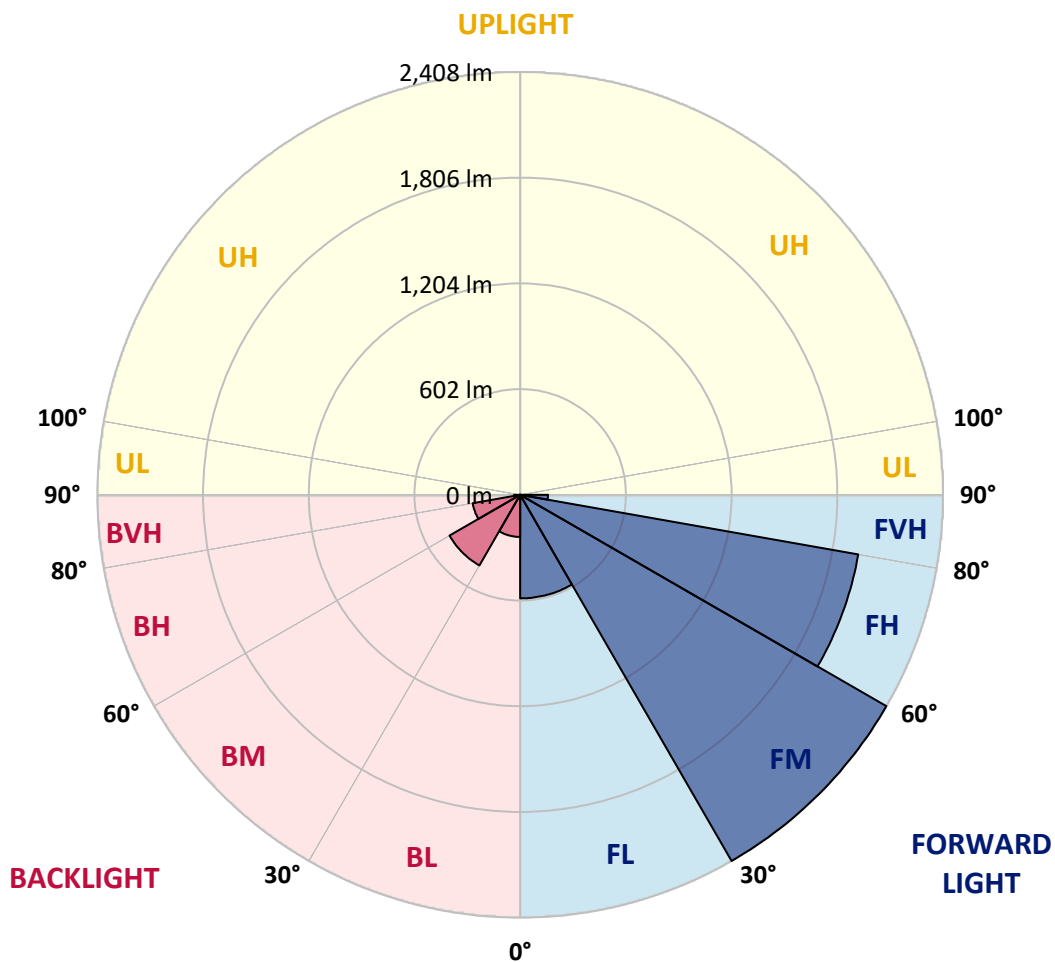
CATALOG NUMBER: GAN-AF-02-LED-U-SLR-7027-600-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 590.0 | 9.6 | | | |
| FM | (30°-60°) | 2408.3 | 39.3 | | | |
| FH | (60°-80°) | 1955.3 | 31.9 | | | G2/5000 |
| FVH | (80°-90°) | 158.9 | 2.6 | | | G2/225 |
| BL | (0°-30°) | 239.9 | 3.9 | B1/500 | | |
| BM | (30°-60°) | 464.5 | 7.6 | B1/1000 | | |
| BH | (60°-80°) | 274.8 | 4.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 34.6 | 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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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2069.9 | 2069.9 | 2069.9 | 2069.9 | 2069.9 | 2069.9 | 2069.9 | 2069.9 | 2069.9 | 2069.9 | 2069.9 |
| 2.5° | 2150.6 | 2106.9 | 2034.1 | 1958.3 | 1912.2 | 1858.4 | 1816.3 | 1779.3 | 1705.2 | 1690.6 | 1703.7 |
| 5° | 2022.4 | 1934.4 | 1797.4 | 1659.3 | 1567.4 | 1468.6 | 1392.0 | 1330.3 | 1236.2 | 1219.8 | 1239.8 |
| 7.5° | 1816.6 | 1711.5 | 1530.4 | 1354.1 | 1224.2 | 1101.0 | 1018.0 | 952.1 | 878.6 | 847.0 | 849.0 |
| 10° | 1639.0 | 1520.6 | 1306.3 | 1114.7 | 1008.3 | 925.2 | 855.5 | 787.8 | 713.3 | 664.4 | 651.0 |
| 12.5° | 1539.8 | 1403.3 | 1156.5 | 985.4 | 886.7 | 799.2 | 724.0 | 651.7 | 572.2 | 522.4 | 508.3 |
| 15° | 1522.5 | 1374.3 | 1100.2 | 902.5 | 779.0 | 668.2 | 579.5 | 498.7 | 417.0 | 376.5 | 368.0 |
| 17.5° | 1596.9 | 1426.2 | 1082.1 | 828.7 | 677.6 | 540.9 | 432.1 | 341.9 | 275.2 | 254.9 | 253.2 |
| 20° | 1739.7 | 1526.0 | 1079.8 | 759.4 | 577.6 | 417.3 | 301.1 | 235.4 | 206.2 | 200.4 | 200.7 |
| 22.5° | 1940.2 | 1680.5 | 1108.7 | 707.2 | 485.7 | 311.3 | 226.4 | 197.0 | 185.6 | 180.2 | 180.2 |
| 25° | 2199.5 | 1893.4 | 1175.3 | 669.1 | 405.9 | 248.6 | 199.8 | 182.1 | 171.4 | 167.8 | 168.4 |
| 27.5° | 2450.8 | 2100.4 | 1252.7 | 639.2 | 353.7 | 225.7 | 189.3 | 173.5 | 164.0 | 160.3 | 162.0 |
| 30° | 2646.8 | 2284.4 | 1317.5 | 598.5 | 327.1 | 219.2 | 193.0 | 176.7 | 163.3 | 157.7 | 157.9 |
| 32.5° | 2809.1 | 2445.4 | 1371.7 | 569.2 | 303.4 | 187.9 | 166.4 | 159.3 | 157.7 | 150.8 | 147.5 |
| 35° | 3016.5 | 2620.7 | 1408.1 | 569.9 | 292.3 | 167.8 | 148.2 | 135.7 | 126.7 | 118.8 | 118.8 |
| 37.5° | 3259.7 | 2822.1 | 1446.8 | 577.6 | 288.3 | 155.9 | 141.8 | 129.4 | 120.9 | 113.5 | 112.2 |
| 40° | 3500.2 | 3019.6 | 1482.2 | 584.9 | 285.9 | 148.8 | 136.7 | 125.3 | 117.6 | 110.1 | 108.1 |
| 42.5° | 3704.5 | 3181.8 | 1513.9 | 588.7 | 277.8 | 148.2 | 132.9 | 122.6 | 115.3 | 107.1 | 105.1 |
| 45° | 3855.7 | 3317.9 | 1547.8 | 594.4 | 269.8 | 150.8 | 132.9 | 122.3 | 113.1 | 105.5 | 103.3 |
| 47.5° | 3990.8 | 3477.6 | 1604.7 | 594.4 | 260.0 | 145.9 | 137.4 | 122.6 | 112.7 | 104.7 | 103.0 |
| 50° | 4171.6 | 3696.4 | 1712.4 | 580.7 | 246.1 | 140.4 | 144.7 | 121.2 | 109.9 | 103.3 | 101.4 |
| 52.5° | 4420.9 | 3976.9 | 1883.6 | 556.7 | 224.9 | 130.0 | 143.8 | 120.6 | 106.8 | 100.0 | 97.6 |
| 55° | 4715.6 | 4277.4 | 2070.1 | 528.7 | 193.3 | 122.6 | 138.8 | 118.8 | 103.3 | 95.9 | 93.7 |
| 57.5° | 4945.6 | 4484.2 | 2201.4 | 485.7 | 165.6 | 118.5 | 122.9 | 117.1 | 99.4 | 91.5 | 89.7 |
| 60° | 5037.2 | 4476.2 | 2237.6 | 428.0 | 152.3 | 115.3 | 107.4 | 131.3 | 95.9 | 88.3 | 85.9 |
| 62.5° | 4987.7 | 4269.4 | 2136.4 | 387.6 | 149.2 | 110.9 | 100.7 | 121.6 | 93.2 | 85.9 | 82.6 |
| 65° | 4759.0 | 3902.9 | 1868.7 | 376.8 | 157.9 | 106.4 | 96.3 | 95.3 | 89.7 | 82.6 | 79.1 |
| 67.5° | 4260.9 | 3355.3 | 1496.2 | 377.8 | 169.2 | 102.0 | 91.9 | 87.2 | 84.5 | 78.8 | 75.7 |
| 70° | 3470.5 | 2652.8 | 1115.4 | 380.5 | 174.8 | 96.9 | 87.2 | 82.1 | 79.1 | 73.4 | 71.3 |
| 72.5° | 2551.7 | 2044.5 | 810.4 | 363.1 | 175.8 | 91.3 | 80.8 | 76.4 | 73.4 | 67.4 | 65.7 |
| 75° | 1745.9 | 1563.9 | 562.1 | 300.8 | 153.3 | 83.3 | 73.8 | 69.7 | 67.7 | 60.2 | 59.3 |
| 77.5° | 1275.4 | 1174.1 | 359.7 | 223.3 | 118.1 | 73.1 | 64.9 | 62.0 | 60.6 | 52.6 | 51.3 |
| 80° | 1023.4 | 928.8 | 224.9 | 152.9 | 86.5 | 61.3 | 54.5 | 52.9 | 51.6 | 43.5 | 42.4 |
| 82.5° | 709.9 | 622.0 | 144.4 | 99.4 | 64.9 | 47.5 | 43.1 | 42.4 | 40.5 | 33.0 | 32.0 |
| 85° | 374.6 | 337.9 | 91.5 | 67.7 | 47.2 | 32.7 | 30.0 | 30.0 | 28.9 | 21.9 | 21.2 |
| 87.5° | 47.8 | 77.9 | 46.5 | 35.4 | 26.0 | 14.6 | 14.6 | 14.2 | 15.1 | 12.4 | 10.8 |
| 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° | 2069.9 | 2069.9 | 2069.9 | 2069.9 | 2069.9 | 2069.9 | 2069.9 | 2069.9 | 2069.9 | 2069.9 | 2069.9 |
| 2.5° | 1672.7 | 1689.0 | 1673.5 | 1674.4 | 1691.6 | 1742.8 | 1766.1 | 1785.2 | 1805.9 | 1819.2 | 1825.4 |
| 5° | 1212.4 | 1250.1 | 1262.8 | 1289.8 | 1329.6 | 1394.9 | 1420.8 | 1439.8 | 1452.2 | 1459.6 | 1462.6 |
| 7.5° | 829.1 | 852.0 | 877.6 | 921.1 | 1007.5 | 1046.0 | 1063.2 | 1058.8 | 1044.6 | 1039.6 | 1034.6 |
| 10° | 625.1 | 616.0 | 611.2 | 635.1 | 705.2 | 743.9 | 756.1 | 744.2 | 736.5 | 738.1 | 746.6 |
| 12.5° | 484.2 | 468.5 | 449.2 | 446.5 | 492.7 | 527.3 | 535.1 | 535.7 | 549.9 | 562.3 | 580.9 |
| 15° | 352.9 | 351.2 | 341.9 | 336.1 | 362.3 | 390.7 | 394.0 | 400.0 | 413.0 | 421.9 | 438.2 |
| 17.5° | 248.9 | 258.0 | 265.4 | 269.1 | 289.0 | 309.1 | 305.5 | 302.4 | 300.0 | 300.0 | 307.8 |
| 20° | 200.7 | 206.8 | 216.2 | 227.0 | 247.3 | 261.3 | 252.2 | 240.1 | 231.4 | 228.7 | 229.6 |
| 22.5° | 180.9 | 185.6 | 191.0 | 200.4 | 218.6 | 228.3 | 218.6 | 209.8 | 201.0 | 198.0 | 197.0 |
| 25° | 170.8 | 176.7 | 181.8 | 189.0 | 202.4 | 209.1 | 199.8 | 193.3 | 187.9 | 184.2 | 181.5 |
| 27.5° | 165.0 | 170.4 | 171.8 | 175.1 | 186.6 | 192.6 | 187.9 | 185.2 | 181.8 | 178.6 | 175.1 |
| 30° | 159.0 | 157.9 | 155.5 | 155.9 | 165.0 | 171.0 | 170.8 | 171.4 | 171.0 | 170.0 | 169.4 |
| 32.5° | 145.2 | 143.1 | 141.2 | 143.1 | 151.5 | 156.9 | 157.3 | 158.6 | 158.6 | 158.3 | 160.9 |
| 35° | 120.9 | 124.7 | 127.0 | 132.9 | 143.1 | 147.9 | 145.9 | 142.4 | 136.5 | 132.7 | 132.4 |
| 37.5° | 111.7 | 112.5 | 116.5 | 125.0 | 136.1 | 140.4 | 137.4 | 129.6 | 125.7 | 125.0 | 125.9 |
| 40° | 107.4 | 108.1 | 110.4 | 118.1 | 129.4 | 133.7 | 131.1 | 125.3 | 121.6 | 121.2 | 122.9 |
| 42.5° | 104.5 | 105.1 | 106.4 | 111.7 | 120.9 | 126.3 | 126.7 | 122.6 | 118.1 | 118.5 | 120.3 |
| 45° | 102.8 | 103.0 | 102.8 | 105.5 | 113.8 | 120.3 | 122.9 | 120.3 | 116.5 | 117.1 | 119.3 |
| 47.5° | 102.3 | 101.4 | 100.0 | 100.7 | 109.5 | 115.8 | 119.3 | 118.1 | 116.5 | 117.1 | 118.8 |
| 50° | 101.0 | 98.6 | 96.9 | 96.7 | 105.5 | 112.2 | 115.3 | 115.3 | 115.8 | 117.1 | 118.8 |
| 52.5° | 96.9 | 94.3 | 94.3 | 93.2 | 102.8 | 109.1 | 111.1 | 111.5 | 112.5 | 114.9 | 117.1 |
| 55° | 91.9 | 90.9 | 91.9 | 90.3 | 100.7 | 106.8 | 107.7 | 108.4 | 109.1 | 111.1 | 114.5 |
| 57.5° | 87.6 | 86.1 | 88.6 | 87.9 | 99.1 | 104.5 | 104.5 | 105.7 | 105.7 | 108.4 | 111.1 |
| 60° | 85.2 | 82.6 | 83.5 | 84.3 | 96.7 | 102.3 | 101.7 | 103.0 | 103.8 | 106.1 | 108.1 |
| 62.5° | 82.1 | 79.8 | 79.8 | 81.4 | 94.0 | 99.4 | 99.1 | 100.0 | 102.8 | 103.3 | 105.5 |
| 65° | 78.4 | 77.4 | 76.4 | 78.4 | 91.3 | 95.9 | 96.3 | 97.6 | 100.0 | 100.7 | 102.3 |
| 67.5° | 74.7 | 75.1 | 73.1 | 75.1 | 88.9 | 92.6 | 92.6 | 95.3 | 96.3 | 97.6 | 99.4 |
| 70° | 70.7 | 71.1 | 69.3 | 71.8 | 87.2 | 88.9 | 88.6 | 92.3 | 93.0 | 94.0 | 95.6 |
| 72.5° | 65.7 | 65.7 | 64.9 | 68.5 | 84.5 | 85.2 | 84.5 | 87.6 | 87.9 | 88.9 | 89.7 |
| 75° | 60.2 | 60.2 | 59.6 | 64.3 | 82.9 | 81.1 | 79.1 | 81.4 | 82.1 | 82.9 | 82.9 |
| 77.5° | 53.2 | 53.9 | 53.9 | 59.6 | 77.2 | 79.5 | 72.8 | 74.1 | 75.1 | 75.5 | 74.4 |
| 80° | 44.5 | 46.2 | 46.8 | 54.2 | 64.7 | 73.4 | 64.9 | 66.0 | 66.4 | 66.4 | 64.9 |
| 82.5° | 34.0 | 37.0 | 38.7 | 46.8 | 49.4 | 61.7 | 56.6 | 57.6 | 56.6 | 54.5 | 53.9 |
| 85° | 23.5 | 27.6 | 29.6 | 35.8 | 37.4 | 47.5 | 47.2 | 47.2 | 45.2 | 42.4 | 42.1 |
| 87.5° | 12.8 | 15.1 | 16.4 | 21.2 | 25.6 | 32.0 | 34.7 | 33.6 | 32.0 | 30.4 | 30.6 |
| 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-02-LED-U-SLR-7027-600-ADJ

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2069.9 | 2069.9 | 2069.9 | 2069.9 | 2069.9 | 2069.9 | 2069.9 | 2069.9 | 2069.9 | 2069.9 | 2069.9 |
| 2.5° | 1856.9 | 1902.8 | 1975.9 | 2031.7 | 2088.0 | 2142.3 | 2200.8 | 2245.7 | 2283.8 | 2298.6 | 2343.6 |
| 5° | 1493.3 | 1550.6 | 1619.6 | 1744.1 | 1832.5 | 1929.6 | 2042.1 | 2191.1 | 2248.3 | 2327.5 | 2457.1 |
| 7.5° | 1055.8 | 1107.7 | 1218.8 | 1319.5 | 1444.5 | 1582.2 | 1734.1 | 1939.5 | 2014.5 | 2141.6 | 2352.8 |
| 10° | 788.4 | 848.7 | 937.9 | 1022.8 | 1132.9 | 1273.6 | 1448.2 | 1677.9 | 1769.1 | 1906.8 | 2150.0 |
| 12.5° | 635.1 | 706.2 | 800.8 | 880.7 | 965.9 | 1065.2 | 1234.6 | 1486.5 | 1608.8 | 1729.3 | 1975.3 |
| 15° | 488.0 | 562.3 | 650.4 | 751.7 | 845.7 | 952.7 | 1130.2 | 1405.7 | 1546.5 | 1672.0 | 1881.9 |
| 17.5° | 337.9 | 401.5 | 512.3 | 617.9 | 738.1 | 875.3 | 1101.2 | 1422.8 | 1591.0 | 1735.7 | 1898.1 |
| 20° | 239.5 | 275.8 | 366.8 | 489.3 | 639.2 | 811.3 | 1095.8 | 1513.1 | 1731.8 | 1897.1 | 2001.9 |
| 22.5° | 201.4 | 214.9 | 267.8 | 380.3 | 553.4 | 763.5 | 1114.7 | 1639.8 | 1921.7 | 2132.8 | 2167.2 |
| 25° | 183.6 | 191.6 | 219.2 | 298.3 | 476.9 | 728.7 | 1178.3 | 1828.4 | 2156.7 | 2368.6 | 2362.5 |
| 27.5° | 173.8 | 182.1 | 200.4 | 252.0 | 419.2 | 707.2 | 1242.0 | 2052.0 | 2425.5 | 2624.5 | 2549.1 |
| 30° | 170.8 | 182.1 | 201.4 | 237.4 | 378.1 | 673.2 | 1294.3 | 2248.3 | 2632.3 | 2797.2 | 2633.9 |
| 32.5° | 168.4 | 170.0 | 178.9 | 204.8 | 339.1 | 633.5 | 1329.6 | 2424.4 | 2834.6 | 2961.6 | 2756.2 |
| 35° | 136.1 | 144.4 | 158.6 | 183.6 | 316.3 | 609.6 | 1329.6 | 2576.3 | 3034.0 | 3127.7 | 2872.7 |
| 37.5° | 131.1 | 138.3 | 150.8 | 172.0 | 303.4 | 597.8 | 1303.0 | 2722.9 | 3237.9 | 3316.0 | 2968.7 |
| 40° | 128.3 | 134.3 | 146.2 | 163.3 | 298.1 | 584.3 | 1264.3 | 2852.2 | 3436.8 | 3504.5 | 3058.3 |
| 42.5° | 126.3 | 131.7 | 142.8 | 157.9 | 291.1 | 569.4 | 1233.0 | 2956.0 | 3609.6 | 3665.4 | 3143.8 |
| 45° | 125.3 | 131.1 | 143.1 | 160.6 | 276.9 | 549.9 | 1222.6 | 3068.0 | 3751.7 | 3799.8 | 3236.5 |
| 47.5° | 125.3 | 132.1 | 144.7 | 166.4 | 260.0 | 529.7 | 1255.1 | 3215.9 | 3886.1 | 3909.7 | 3345.6 |
| 50° | 124.2 | 131.7 | 149.6 | 160.6 | 235.4 | 504.2 | 1331.9 | 3402.2 | 4031.6 | 4034.3 | 3483.5 |
| 52.5° | 122.3 | 131.1 | 160.9 | 157.3 | 207.1 | 470.5 | 1435.8 | 3641.2 | 4246.7 | 4262.9 | 3699.8 |
| 55° | 120.0 | 130.0 | 157.9 | 149.6 | 183.9 | 430.4 | 1520.6 | 3931.9 | 4549.1 | 4594.0 | 4017.8 |
| 57.5° | 116.9 | 128.6 | 152.9 | 138.8 | 168.7 | 378.8 | 1551.3 | 4144.7 | 4760.4 | 4872.9 | 4376.1 |
| 60° | 114.2 | 127.6 | 138.1 | 132.4 | 159.3 | 335.4 | 1491.9 | 4102.6 | 4745.8 | 4988.4 | 4693.6 |
| 62.5° | 111.5 | 128.6 | 125.9 | 128.3 | 154.9 | 307.5 | 1336.9 | 3765.4 | 4505.8 | 4869.2 | 4929.1 |
| 65° | 108.4 | 119.6 | 118.8 | 125.0 | 153.9 | 296.4 | 1108.2 | 3259.9 | 4041.7 | 4492.2 | 4984.6 |
| 67.5° | 104.5 | 110.4 | 113.8 | 120.6 | 157.3 | 286.6 | 894.5 | 2689.2 | 3396.8 | 3927.5 | 4695.0 |
| 70° | 100.0 | 105.1 | 108.8 | 115.3 | 155.2 | 282.2 | 743.9 | 2120.7 | 2695.3 | 3218.8 | 4123.5 |
| 72.5° | 94.3 | 98.6 | 102.0 | 108.1 | 153.3 | 279.8 | 628.5 | 1707.8 | 2012.3 | 2391.1 | 3352.7 |
| 75° | 87.6 | 91.5 | 94.0 | 100.0 | 146.9 | 256.2 | 494.1 | 1445.2 | 1505.6 | 1663.3 | 2670.3 |
| 77.5° | 79.8 | 82.9 | 84.9 | 91.5 | 130.0 | 213.2 | 357.3 | 1114.7 | 1169.4 | 1207.7 | 2047.2 |
| 80° | 70.7 | 73.8 | 74.7 | 81.1 | 107.7 | 166.6 | 233.0 | 823.4 | 874.6 | 883.4 | 1336.9 |
| 82.5° | 60.2 | 63.3 | 63.3 | 69.3 | 88.3 | 120.0 | 152.9 | 564.0 | 574.1 | 603.8 | 944.9 |
| 85° | 48.5 | 50.8 | 50.8 | 53.9 | 68.5 | 89.7 | 105.1 | 283.2 | 280.2 | 319.9 | 818.7 |
| 87.5° | 34.7 | 36.4 | 38.1 | 38.7 | 48.9 | 59.3 | 63.3 | 86.1 | 57.0 | 65.3 | 525.7 |
| 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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| 0° | 2069.9 | 2069.9 | 2069.9 | 2069.9 | 2069.9 | 2069.9 | 2069.9 | 2069.9 |
| 2.5° | 2377.6 | 2396.9 | 2377.4 | 2363.3 | 2302.1 | 2252.1 | 2184.9 | 2150.6 |
| 5° | 2555.8 | 2604.6 | 2588.1 | 2528.9 | 2401.6 | 2258.3 | 2095.7 | 2022.4 |
| 7.5° | 2534.3 | 2647.8 | 2650.4 | 2539.7 | 2352.0 | 2141.2 | 1920.9 | 1816.6 |
| 10° | 2366.6 | 2511.8 | 2553.2 | 2445.6 | 2246.7 | 2010.9 | 1758.3 | 1639.0 |
| 12.5° | 2179.3 | 2321.4 | 2353.1 | 2316.0 | 2149.6 | 1912.9 | 1656.7 | 1539.8 |
| 15° | 2026.0 | 2089.6 | 2127.5 | 2159.7 | 2066.6 | 1873.9 | 1650.8 | 1522.5 |
| 17.5° | 1932.8 | 1925.6 | 1936.4 | 1992.7 | 2008.5 | 1918.6 | 1738.4 | 1596.9 |
| 20° | 1899.0 | 1791.0 | 1788.3 | 1865.7 | 1981.2 | 2025.4 | 1909.5 | 1739.7 |
| 22.5° | 1917.6 | 1742.5 | 1720.3 | 1812.2 | 1995.8 | 2179.3 | 2133.8 | 1940.2 |
| 25° | 1981.7 | 1746.6 | 1728.7 | 1817.6 | 2048.2 | 2343.3 | 2375.9 | 2199.5 |
| 27.5° | 2082.4 | 1772.1 | 1748.6 | 1839.8 | 2118.1 | 2480.9 | 2614.3 | 2450.8 |
| 30° | 2177.9 | 1816.6 | 1787.3 | 1883.6 | 2181.7 | 2535.6 | 2760.5 | 2646.8 |
| 32.5° | 2294.1 | 1899.7 | 1848.3 | 1964.1 | 2260.4 | 2622.5 | 2890.8 | 2809.1 |
| 35° | 2407.9 | 2018.3 | 1954.4 | 2088.4 | 2348.3 | 2730.6 | 3039.8 | 3016.5 |
| 37.5° | 2533.0 | 2173.2 | 2120.4 | 2248.9 | 2468.6 | 2832.6 | 3229.6 | 3259.7 |
| 40° | 2666.3 | 2378.6 | 2316.0 | 2483.4 | 2655.1 | 2960.6 | 3428.0 | 3500.2 |
| 42.5° | 2800.6 | 2606.6 | 2532.0 | 2701.7 | 2860.3 | 3086.8 | 3597.8 | 3704.5 |
| 45° | 2954.5 | 2854.2 | 2818.8 | 3002.3 | 3057.2 | 3207.0 | 3723.0 | 3855.7 |
| 47.5° | 3133.6 | 3135.1 | 3191.9 | 3265.3 | 3255.9 | 3343.2 | 3849.0 | 3990.8 |
| 50° | 3342.9 | 3485.7 | 3611.2 | 3660.1 | 3460.7 | 3489.3 | 4023.8 | 4171.6 |
| 52.5° | 3594.1 | 3904.9 | 4060.5 | 4028.4 | 3681.3 | 3667.8 | 4300.6 | 4420.9 |
| 55° | 3908.3 | 4348.9 | 4503.4 | 4480.4 | 3934.8 | 3911.0 | 4645.6 | 4715.6 |
| 57.5° | 4272.0 | 4778.9 | 4920.9 | 4817.9 | 4239.3 | 4177.7 | 4930.7 | 4945.6 |
| 60° | 4591.5 | 5119.7 | 5244.2 | 5130.1 | 4546.5 | 4461.6 | 5108.9 | 5037.2 |
| 62.5° | 4769.5 | 5235.2 | 5322.7 | 5199.7 | 4757.0 | 4764.0 | 5147.9 | 4987.7 |
| 65° | 4690.0 | 4943.3 | 4971.5 | 4961.3 | 4702.7 | 4939.5 | 5007.5 | 4759.0 |
| 67.5° | 4254.8 | 4205.0 | 4252.4 | 4318.2 | 4238.1 | 4708.5 | 4618.5 | 4260.9 |
| 70° | 3488.4 | 3214.6 | 3309.1 | 3353.4 | 3389.7 | 4051.7 | 4008.6 | 3470.5 |
| 72.5° | 2628.9 | 2252.1 | 2326.8 | 2317.6 | 2486.1 | 3249.9 | 3117.6 | 2551.7 |
| 75° | 1862.7 | 1526.9 | 1536.5 | 1532.7 | 1734.7 | 2542.7 | 2257.4 | 1745.9 |
| 77.5° | 1303.4 | 1106.4 | 1111.4 | 1132.3 | 1166.3 | 1917.6 | 1612.8 | 1275.4 |
| 80° | 896.1 | 839.6 | 867.6 | 869.2 | 808.2 | 1288.2 | 1191.5 | 1023.4 |
| 82.5° | 667.5 | 583.5 | 576.9 | 586.7 | 633.5 | 1043.7 | 915.7 | 709.9 |
| 85° | 546.6 | 345.6 | 277.8 | 348.3 | 561.4 | 1033.6 | 608.2 | 374.6 |
| 87.5° | 307.8 | 164.0 | 74.1 | 137.4 | 223.9 | 684.2 | 175.8 | 47.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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