

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: P193850

Luminaire Tested: **GAN-AF-02-LED-U-SLR-8030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193850
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-8030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 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: 5754 lumens
Efficiency: N/A
Efficacy: 87.2 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

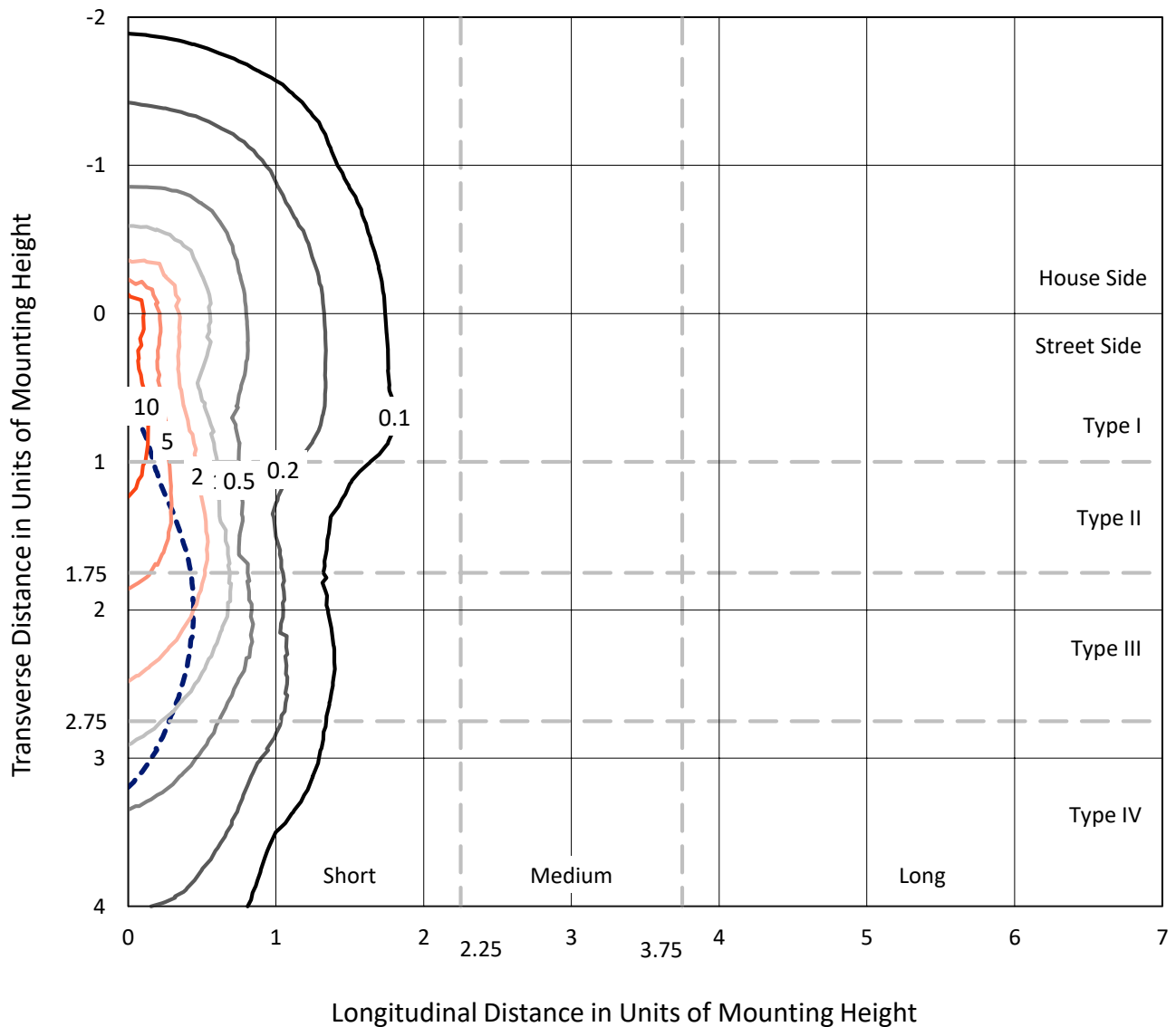


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

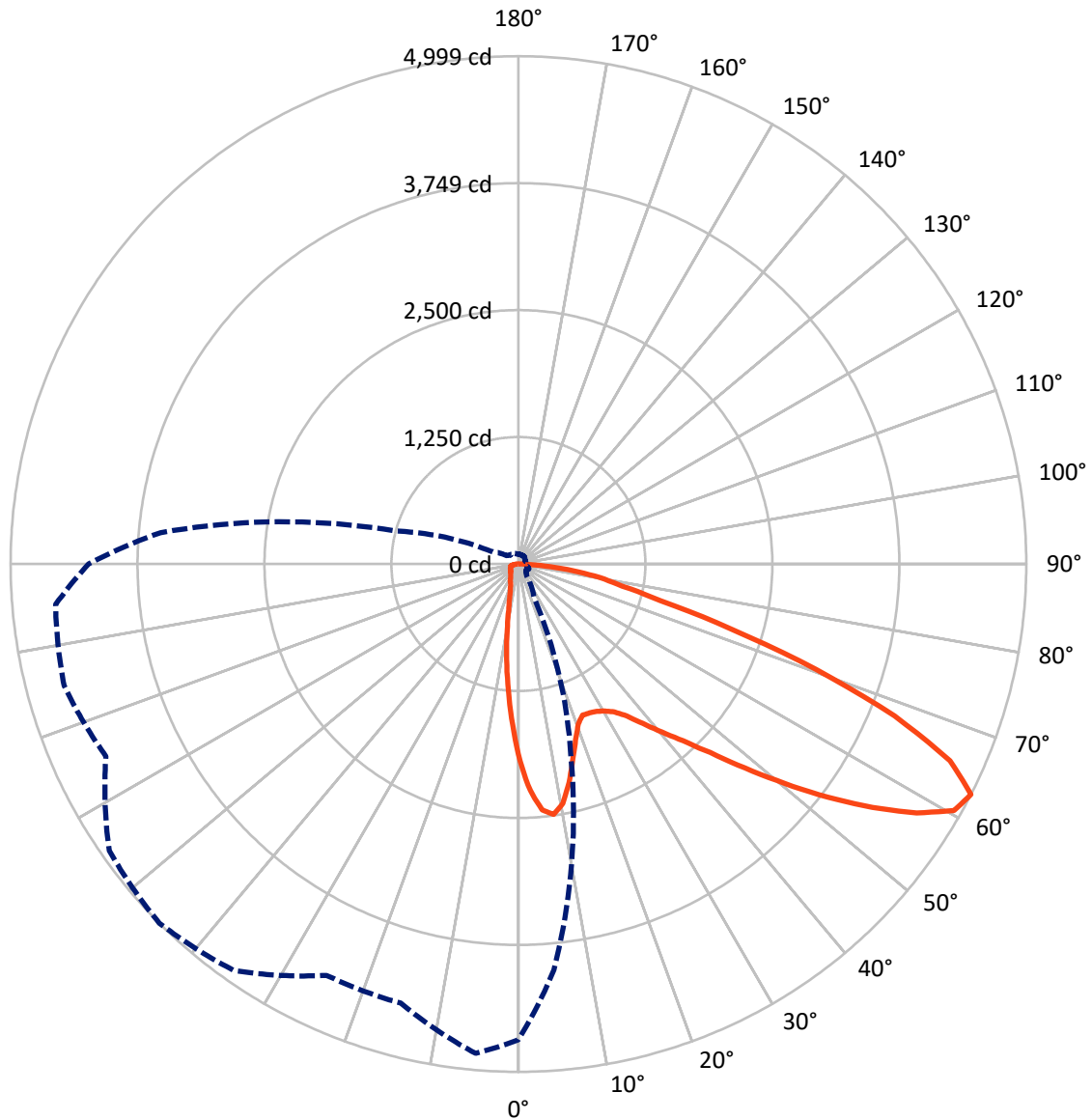


Based on 10 foot mounting height. Maximum calculated value = 19.4 fc
 Type IV - Short - Non-Cutoff

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CATALOG NUMBER: GAN-AF-02-LED-U-SLR-8030-600-ADJ

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 | 952.2 | 0.0 | 952.2 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 4801.8 | 0.0 | 4801.8 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 5754.0 | 0.0 | 5754.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 141.5 | 2.5 |
| 10°-20° | 259.5 | 4.5 |
| 20°-30° | 378.4 | 6.6 |
| 30°-40° | 582.7 | 10.1 |
| 40°-50° | 857.6 | 14.9 |
| 50°-60° | 1257.9 | 21.9 |
| 60°-70° | 1406.2 | 24.4 |
| 70°-80° | 688.4 | 12.0 |
| 80°-90° | 181.8 | 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° | 5754.0 | 100.0 |
| 0°-180° | 5754.0 | 100.0 |



REPORT NUMBER: P193850

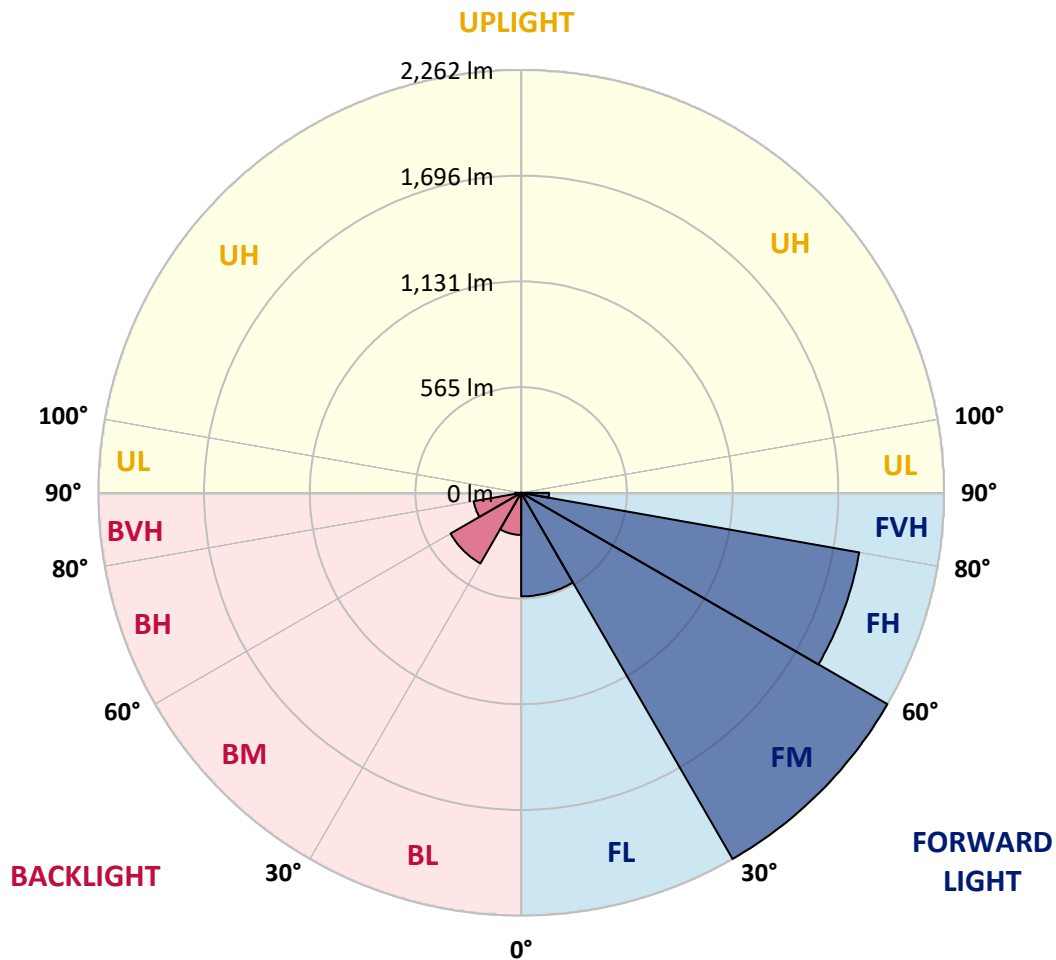
CATALOG NUMBER: GAN-AF-02-LED-U-SLR-8030-600-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 554.1 | 9.6 | | | |
| FM (30°-60°) | 2262.0 | 39.3 | | | |
| FH (60°-80°) | 1836.5 | 31.9 | | | G2/5000 |
| FVH (80°-90°) | 149.3 | 2.6 | | | G2/225 |
| BL (0°-30°) | 225.3 | 3.9 | B1/500 | | |
| BM (30°-60°) | 436.3 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 258.1 | 4.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 32.5 | 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





REPORT NUMBER: P193850

CATALOG NUMBER: GAN-AF-02-LED-U-SLR-8030-600-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1944.0 | 1944.0 | 1944.0 | 1944.0 | 1944.0 | 1944.0 | 1944.0 | 1944.0 | 1944.0 | 1944.0 | 1944.0 |
| 2.5° | 2019.9 | 1978.8 | 1910.5 | 1839.3 | 1796.0 | 1745.4 | 1705.8 | 1671.0 | 1601.5 | 1587.9 | 1600.2 |
| 5° | 1899.4 | 1816.9 | 1688.1 | 1558.4 | 1472.1 | 1379.4 | 1307.3 | 1249.4 | 1161.2 | 1145.7 | 1164.3 |
| 7.5° | 1706.1 | 1607.5 | 1437.3 | 1271.9 | 1149.8 | 1034.0 | 956.2 | 894.2 | 825.2 | 795.5 | 797.4 |
| 10° | 1539.5 | 1428.1 | 1226.9 | 1047.0 | 947.0 | 868.9 | 803.4 | 739.8 | 669.9 | 624.1 | 611.4 |
| 12.5° | 1446.1 | 1318.0 | 1086.2 | 925.5 | 832.8 | 750.6 | 680.1 | 612.1 | 537.4 | 490.6 | 477.3 |
| 15° | 1430.0 | 1290.8 | 1033.4 | 847.7 | 731.6 | 627.5 | 544.4 | 468.4 | 391.6 | 353.6 | 345.7 |
| 17.5° | 1499.9 | 1339.6 | 1016.3 | 778.4 | 636.4 | 508.0 | 405.8 | 321.0 | 258.4 | 239.4 | 237.9 |
| 20° | 1634.0 | 1433.2 | 1014.1 | 713.3 | 542.5 | 391.9 | 282.8 | 221.1 | 193.6 | 188.2 | 188.5 |
| 22.5° | 1822.2 | 1578.4 | 1041.3 | 664.2 | 456.1 | 292.3 | 212.6 | 185.0 | 174.3 | 169.2 | 169.2 |
| 25° | 2065.8 | 1778.3 | 1103.9 | 628.5 | 381.1 | 233.4 | 187.6 | 171.1 | 161.0 | 157.5 | 158.2 |
| 27.5° | 2301.8 | 1972.8 | 1176.7 | 600.3 | 332.1 | 211.9 | 177.8 | 162.9 | 154.0 | 150.6 | 152.1 |
| 30° | 2485.8 | 2145.5 | 1237.4 | 562.1 | 307.1 | 205.9 | 181.2 | 166.1 | 153.4 | 148.0 | 148.3 |
| 32.5° | 2638.3 | 2296.7 | 1288.3 | 534.6 | 285.0 | 176.5 | 156.3 | 149.6 | 148.0 | 141.7 | 138.5 |
| 35° | 2833.1 | 2461.5 | 1322.5 | 535.2 | 274.6 | 157.5 | 139.2 | 127.5 | 118.9 | 111.7 | 111.7 |
| 37.5° | 3061.5 | 2650.6 | 1358.8 | 542.5 | 270.8 | 146.4 | 133.2 | 121.5 | 113.6 | 106.6 | 105.3 |
| 40° | 3287.4 | 2836.0 | 1392.1 | 549.4 | 268.5 | 139.8 | 128.4 | 117.7 | 110.4 | 103.4 | 101.5 |
| 42.5° | 3479.4 | 2988.5 | 1421.8 | 552.9 | 261.0 | 139.2 | 124.9 | 115.1 | 108.2 | 100.6 | 98.7 |
| 45° | 3621.4 | 3116.2 | 1453.7 | 558.3 | 253.4 | 141.7 | 124.9 | 114.8 | 106.3 | 99.0 | 97.1 |
| 47.5° | 3748.2 | 3266.2 | 1507.2 | 558.3 | 244.2 | 137.0 | 129.1 | 115.1 | 106.0 | 98.4 | 96.8 |
| 50° | 3918.1 | 3471.8 | 1608.4 | 545.3 | 231.2 | 131.9 | 136.0 | 113.9 | 103.1 | 97.1 | 95.2 |
| 52.5° | 4152.1 | 3735.2 | 1769.1 | 522.9 | 211.3 | 122.1 | 135.1 | 113.2 | 100.3 | 93.9 | 91.7 |
| 55° | 4428.9 | 4017.4 | 1944.3 | 496.6 | 181.6 | 115.1 | 130.3 | 111.7 | 97.1 | 90.1 | 87.9 |
| 57.5° | 4644.9 | 4211.6 | 2067.7 | 456.1 | 155.6 | 111.3 | 115.5 | 110.1 | 93.3 | 86.0 | 84.1 |
| 60° | 4731.0 | 4204.0 | 2101.5 | 402.0 | 143.0 | 108.2 | 100.9 | 123.4 | 90.1 | 82.9 | 80.7 |
| 62.5° | 4684.5 | 4009.8 | 2006.6 | 364.1 | 140.1 | 104.1 | 94.6 | 114.2 | 87.6 | 80.7 | 77.5 |
| 65° | 4469.7 | 3665.7 | 1755.2 | 353.9 | 148.3 | 100.0 | 90.5 | 89.5 | 84.1 | 77.5 | 74.3 |
| 67.5° | 4001.9 | 3151.3 | 1405.3 | 354.9 | 158.8 | 95.8 | 86.4 | 81.9 | 79.4 | 74.0 | 71.2 |
| 70° | 3259.5 | 2491.5 | 1047.6 | 357.4 | 164.2 | 91.1 | 81.9 | 77.2 | 74.3 | 69.0 | 67.1 |
| 72.5° | 2396.6 | 1920.3 | 761.0 | 341.0 | 165.1 | 85.7 | 75.9 | 71.8 | 69.0 | 63.3 | 61.7 |
| 75° | 1639.7 | 1468.9 | 527.9 | 282.5 | 143.9 | 78.1 | 69.3 | 65.5 | 63.6 | 56.6 | 55.7 |
| 77.5° | 1197.8 | 1102.6 | 337.8 | 209.7 | 111.0 | 68.6 | 61.0 | 58.2 | 56.9 | 49.3 | 48.1 |
| 80° | 961.3 | 872.4 | 211.3 | 143.6 | 81.3 | 57.6 | 51.2 | 49.7 | 48.4 | 40.8 | 39.9 |
| 82.5° | 666.8 | 584.2 | 135.7 | 93.3 | 61.0 | 44.6 | 40.5 | 39.9 | 38.0 | 31.0 | 30.0 |
| 85° | 351.7 | 317.3 | 86.0 | 63.6 | 44.3 | 30.7 | 28.2 | 28.2 | 27.2 | 20.6 | 19.9 |
| 87.5° | 44.9 | 73.1 | 43.7 | 33.2 | 24.4 | 13.6 | 13.6 | 13.3 | 14.2 | 11.7 | 10.1 |
| 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: P193850

CATALOG NUMBER: GAN-AF-02-LED-U-SLR-8030-600-ADJ

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1944.0 | 1944.0 | 1944.0 | 1944.0 | 1944.0 | 1944.0 | 1944.0 | 1944.0 | 1944.0 | 1944.0 | 1944.0 |
| 2.5° | 1571.1 | 1586.3 | 1571.7 | 1572.7 | 1588.8 | 1636.9 | 1658.7 | 1676.7 | 1696.0 | 1708.7 | 1714.4 |
| 5° | 1138.7 | 1174.1 | 1186.1 | 1211.4 | 1248.8 | 1310.1 | 1334.5 | 1352.2 | 1363.9 | 1370.9 | 1373.7 |
| 7.5° | 778.7 | 800.3 | 824.3 | 865.1 | 946.4 | 982.4 | 998.6 | 994.5 | 981.2 | 976.4 | 971.7 |
| 10° | 587.1 | 578.5 | 574.1 | 596.6 | 662.3 | 698.7 | 710.1 | 699.0 | 691.8 | 693.3 | 701.2 |
| 12.5° | 454.8 | 440.0 | 422.0 | 419.4 | 462.8 | 495.3 | 502.6 | 503.2 | 516.5 | 528.2 | 545.6 |
| 15° | 331.5 | 329.9 | 321.0 | 315.7 | 340.3 | 366.9 | 370.1 | 375.8 | 387.8 | 396.3 | 411.5 |
| 17.5° | 233.7 | 242.3 | 249.2 | 252.7 | 271.4 | 290.4 | 286.9 | 284.0 | 281.8 | 281.8 | 289.1 |
| 20° | 188.5 | 194.2 | 203.1 | 213.2 | 232.2 | 245.5 | 236.9 | 225.5 | 217.3 | 214.8 | 215.7 |
| 22.5° | 169.9 | 174.3 | 179.3 | 188.2 | 205.3 | 214.5 | 205.3 | 197.1 | 188.8 | 186.0 | 185.0 |
| 25° | 160.4 | 166.1 | 170.8 | 177.4 | 190.1 | 196.4 | 187.6 | 181.6 | 176.5 | 173.0 | 170.5 |
| 27.5° | 155.0 | 160.1 | 161.3 | 164.5 | 175.2 | 180.9 | 176.5 | 174.0 | 170.8 | 167.6 | 164.5 |
| 30° | 149.3 | 148.3 | 146.1 | 146.4 | 155.0 | 160.7 | 160.4 | 161.0 | 160.7 | 159.7 | 159.1 |
| 32.5° | 136.3 | 134.4 | 132.5 | 134.4 | 142.3 | 147.4 | 147.7 | 149.0 | 149.0 | 148.7 | 151.2 |
| 35° | 113.6 | 117.0 | 119.2 | 124.9 | 134.4 | 138.9 | 137.0 | 133.8 | 128.1 | 124.6 | 124.3 |
| 37.5° | 105.0 | 105.6 | 109.4 | 117.3 | 127.8 | 131.9 | 129.1 | 121.8 | 118.0 | 117.3 | 118.3 |
| 40° | 100.9 | 101.5 | 103.7 | 111.0 | 121.5 | 125.6 | 123.0 | 117.7 | 114.2 | 113.9 | 115.5 |
| 42.5° | 98.1 | 98.7 | 100.0 | 105.0 | 113.6 | 118.6 | 118.9 | 115.1 | 111.0 | 111.3 | 112.9 |
| 45° | 96.5 | 96.8 | 96.5 | 99.0 | 106.9 | 112.9 | 115.5 | 112.9 | 109.4 | 110.1 | 112.0 |
| 47.5° | 96.2 | 95.2 | 93.9 | 94.6 | 102.8 | 108.8 | 112.0 | 111.0 | 109.4 | 110.1 | 111.7 |
| 50° | 94.9 | 92.7 | 91.1 | 90.8 | 99.0 | 105.3 | 108.2 | 108.2 | 108.8 | 110.1 | 111.7 |
| 52.5° | 91.1 | 88.6 | 88.6 | 87.6 | 96.5 | 102.5 | 104.4 | 104.7 | 105.6 | 107.9 | 110.1 |
| 55° | 86.4 | 85.4 | 86.4 | 84.8 | 94.6 | 100.3 | 101.2 | 101.9 | 102.5 | 104.4 | 107.5 |
| 57.5° | 82.2 | 81.0 | 83.2 | 82.6 | 93.0 | 98.1 | 98.1 | 99.3 | 99.3 | 101.9 | 104.4 |
| 60° | 80.0 | 77.5 | 78.4 | 79.1 | 90.8 | 96.2 | 95.5 | 96.8 | 97.4 | 99.6 | 101.5 |
| 62.5° | 77.2 | 75.0 | 75.0 | 76.5 | 88.2 | 93.3 | 93.0 | 93.9 | 96.5 | 97.1 | 99.0 |
| 65° | 73.7 | 72.8 | 71.8 | 73.7 | 85.7 | 90.1 | 90.5 | 91.7 | 93.9 | 94.6 | 96.2 |
| 67.5° | 70.2 | 70.5 | 68.6 | 70.5 | 83.5 | 87.0 | 87.0 | 89.5 | 90.5 | 91.7 | 93.3 |
| 70° | 66.4 | 66.7 | 65.2 | 67.4 | 81.9 | 83.5 | 83.2 | 86.7 | 87.3 | 88.2 | 89.8 |
| 72.5° | 61.7 | 61.7 | 61.0 | 64.2 | 79.4 | 80.0 | 79.4 | 82.2 | 82.6 | 83.5 | 84.1 |
| 75° | 56.6 | 56.6 | 56.0 | 60.4 | 77.8 | 76.2 | 74.3 | 76.5 | 77.2 | 77.8 | 77.8 |
| 77.5° | 50.0 | 50.6 | 50.6 | 56.0 | 72.4 | 74.6 | 68.3 | 69.6 | 70.5 | 70.9 | 69.9 |
| 80° | 41.8 | 43.3 | 44.0 | 50.9 | 60.7 | 69.0 | 61.0 | 62.0 | 62.3 | 62.3 | 61.0 |
| 82.5° | 31.9 | 34.8 | 36.4 | 44.0 | 46.5 | 57.9 | 53.1 | 54.1 | 53.1 | 51.2 | 50.6 |
| 85° | 22.1 | 25.9 | 27.8 | 33.5 | 35.1 | 44.6 | 44.3 | 44.3 | 42.4 | 39.9 | 39.5 |
| 87.5° | 12.0 | 14.2 | 15.5 | 19.9 | 24.0 | 30.0 | 32.6 | 31.6 | 30.0 | 28.5 | 28.8 |
| 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: P193850

CATALOG NUMBER: GAN-AF-02-LED-U-SLR-8030-600-ADJ

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1944.0 | 1944.0 | 1944.0 | 1944.0 | 1944.0 | 1944.0 | 1944.0 | 1944.0 | 1944.0 | 1944.0 | 1944.0 |
| 2.5° | 1744.1 | 1787.1 | 1855.8 | 1908.3 | 1961.1 | 2012.0 | 2067.1 | 2109.1 | 2144.9 | 2158.8 | 2201.2 |
| 5° | 1402.5 | 1456.3 | 1521.1 | 1638.1 | 1721.0 | 1812.4 | 1918.1 | 2057.9 | 2111.7 | 2186.0 | 2307.8 |
| 7.5° | 991.6 | 1040.3 | 1144.7 | 1239.3 | 1356.6 | 1486.0 | 1628.7 | 1821.6 | 1892.1 | 2011.4 | 2209.7 |
| 10° | 740.5 | 797.1 | 880.9 | 960.6 | 1064.1 | 1196.3 | 1360.1 | 1575.8 | 1661.6 | 1790.9 | 2019.3 |
| 12.5° | 596.6 | 663.3 | 752.2 | 827.1 | 907.2 | 1000.5 | 1159.6 | 1396.2 | 1511.0 | 1624.2 | 1855.1 |
| 15° | 458.3 | 528.2 | 610.8 | 706.0 | 794.2 | 894.8 | 1061.5 | 1320.3 | 1452.5 | 1570.5 | 1767.5 |
| 17.5° | 317.3 | 377.0 | 481.1 | 580.4 | 693.3 | 822.1 | 1034.3 | 1336.4 | 1494.2 | 1630.2 | 1782.7 |
| 20° | 224.9 | 259.1 | 344.5 | 459.6 | 600.3 | 762.0 | 1029.3 | 1421.2 | 1626.4 | 1781.7 | 1880.1 |
| 22.5° | 189.2 | 201.8 | 251.5 | 357.1 | 519.7 | 717.1 | 1047.0 | 1540.1 | 1804.8 | 2003.2 | 2035.4 |
| 25° | 172.4 | 180.0 | 205.9 | 280.2 | 447.9 | 684.5 | 1106.8 | 1717.2 | 2025.6 | 2224.6 | 2218.9 |
| 27.5° | 163.2 | 171.1 | 188.2 | 236.6 | 393.8 | 664.2 | 1166.5 | 1927.2 | 2278.0 | 2465.0 | 2394.1 |
| 30° | 160.4 | 171.1 | 189.2 | 223.0 | 355.2 | 632.3 | 1215.6 | 2111.7 | 2472.2 | 2627.2 | 2473.8 |
| 32.5° | 158.2 | 159.7 | 168.0 | 192.3 | 318.5 | 595.0 | 1248.8 | 2277.1 | 2662.3 | 2781.6 | 2588.6 |
| 35° | 127.8 | 135.7 | 149.0 | 172.4 | 297.0 | 572.5 | 1248.8 | 2419.7 | 2849.6 | 2937.5 | 2698.1 |
| 37.5° | 123.0 | 130.0 | 141.7 | 161.6 | 285.0 | 561.4 | 1223.8 | 2557.3 | 3041.0 | 3114.3 | 2788.2 |
| 40° | 120.5 | 126.2 | 137.3 | 153.4 | 279.9 | 548.8 | 1187.4 | 2678.8 | 3227.9 | 3291.5 | 2872.4 |
| 42.5° | 118.6 | 123.7 | 134.1 | 148.3 | 273.3 | 534.9 | 1158.0 | 2776.2 | 3390.2 | 3442.7 | 2952.7 |
| 45° | 117.7 | 123.0 | 134.4 | 150.9 | 260.0 | 516.5 | 1148.2 | 2881.5 | 3523.6 | 3568.9 | 3039.7 |
| 47.5° | 117.7 | 124.0 | 136.0 | 156.3 | 244.2 | 497.5 | 1178.9 | 3020.4 | 3649.8 | 3672.0 | 3142.2 |
| 50° | 116.7 | 123.7 | 140.4 | 150.9 | 221.1 | 473.5 | 1251.0 | 3195.3 | 3786.5 | 3789.0 | 3271.9 |
| 52.5° | 114.8 | 123.0 | 151.2 | 147.7 | 194.5 | 441.9 | 1348.4 | 3419.9 | 3988.6 | 4003.8 | 3474.9 |
| 55° | 112.6 | 122.1 | 148.3 | 140.4 | 172.7 | 404.2 | 1428.1 | 3692.9 | 4272.6 | 4314.7 | 3773.5 |
| 57.5° | 109.8 | 120.8 | 143.6 | 130.3 | 158.5 | 355.8 | 1456.9 | 3892.8 | 4471.0 | 4576.6 | 4110.1 |
| 60° | 107.2 | 119.9 | 129.7 | 124.3 | 149.6 | 315.0 | 1401.2 | 3853.2 | 4457.4 | 4685.1 | 4408.3 |
| 62.5° | 104.7 | 120.8 | 118.3 | 120.5 | 145.5 | 288.8 | 1255.7 | 3536.6 | 4231.8 | 4573.1 | 4629.4 |
| 65° | 101.9 | 112.3 | 111.7 | 117.3 | 144.6 | 278.3 | 1041.0 | 3061.8 | 3796.0 | 4219.2 | 4681.6 |
| 67.5° | 98.1 | 103.7 | 106.9 | 113.2 | 147.7 | 269.2 | 840.1 | 2525.7 | 3190.3 | 3688.8 | 4409.6 |
| 70° | 93.9 | 98.7 | 102.2 | 108.2 | 145.8 | 265.1 | 698.7 | 1991.8 | 2531.4 | 3023.2 | 3872.8 |
| 72.5° | 88.6 | 92.7 | 95.8 | 101.5 | 143.9 | 262.8 | 590.2 | 1604.0 | 1889.9 | 2245.8 | 3148.8 |
| 75° | 82.2 | 86.0 | 88.2 | 93.9 | 137.9 | 240.7 | 464.0 | 1357.3 | 1414.2 | 1562.2 | 2508.0 |
| 77.5° | 75.0 | 77.8 | 79.7 | 86.0 | 122.1 | 200.2 | 335.6 | 1047.0 | 1098.2 | 1134.3 | 1922.8 |
| 80° | 66.4 | 69.3 | 70.2 | 76.2 | 101.2 | 156.6 | 218.9 | 773.4 | 821.4 | 829.7 | 1255.7 |
| 82.5° | 56.6 | 59.5 | 59.5 | 65.2 | 82.9 | 112.6 | 143.6 | 529.8 | 539.3 | 567.1 | 887.6 |
| 85° | 45.5 | 47.8 | 47.8 | 50.6 | 64.2 | 84.1 | 98.7 | 266.0 | 263.2 | 300.5 | 768.9 |
| 87.5° | 32.6 | 34.2 | 35.7 | 36.4 | 45.9 | 55.7 | 59.5 | 81.0 | 53.5 | 61.4 | 493.8 |
| 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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| 30° | 2045.5 | 1706.1 | 1678.6 | 1769.1 | 2049.0 | 2381.5 | 2592.8 | 2485.8 |
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| 35° | 2261.6 | 1895.6 | 1835.5 | 1961.4 | 2205.6 | 2564.6 | 2855.0 | 2833.1 |
| 37.5° | 2378.9 | 2041.1 | 1991.5 | 2112.3 | 2318.5 | 2660.4 | 3033.4 | 3061.5 |
| 40° | 2504.2 | 2234.1 | 2175.2 | 2332.4 | 2493.7 | 2780.6 | 3219.7 | 3287.4 |
| 42.5° | 2630.4 | 2448.2 | 2378.0 | 2537.4 | 2686.4 | 2899.3 | 3379.1 | 3479.4 |
| 45° | 2774.9 | 2680.7 | 2647.5 | 2819.9 | 2871.4 | 3012.2 | 3496.8 | 3621.4 |
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| 52.5° | 3375.6 | 3667.6 | 3813.7 | 3783.6 | 3457.5 | 3444.9 | 4039.2 | 4152.1 |
| 55° | 3670.7 | 4084.4 | 4229.6 | 4208.1 | 3695.7 | 3673.3 | 4363.1 | 4428.9 |
| 57.5° | 4012.3 | 4488.4 | 4621.9 | 4525.1 | 3981.6 | 3923.8 | 4631.0 | 4644.9 |
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| 62.5° | 4479.5 | 4917.0 | 4999.2 | 4883.8 | 4467.8 | 4474.5 | 4835.0 | 4684.5 |
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| 72.5° | 2469.1 | 2115.1 | 2185.4 | 2176.8 | 2335.0 | 3052.3 | 2928.0 | 2396.6 |
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| 77.5° | 1224.1 | 1039.1 | 1043.8 | 1063.4 | 1095.4 | 1801.0 | 1514.8 | 1197.8 |
| 80° | 841.7 | 788.5 | 814.8 | 816.4 | 759.1 | 1209.9 | 1119.1 | 961.3 |
| 82.5° | 626.9 | 548.2 | 541.8 | 551.0 | 595.0 | 980.2 | 860.0 | 666.8 |
| 85° | 513.4 | 324.5 | 261.0 | 327.1 | 527.3 | 970.7 | 571.2 | 351.7 |
| 87.5° | 289.1 | 154.0 | 69.6 | 129.1 | 210.3 | 642.7 | 165.1 | 44.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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