

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: P191080

Luminaire Tested: **GAN-AF-02-LED-U-SL2-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9860.2 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

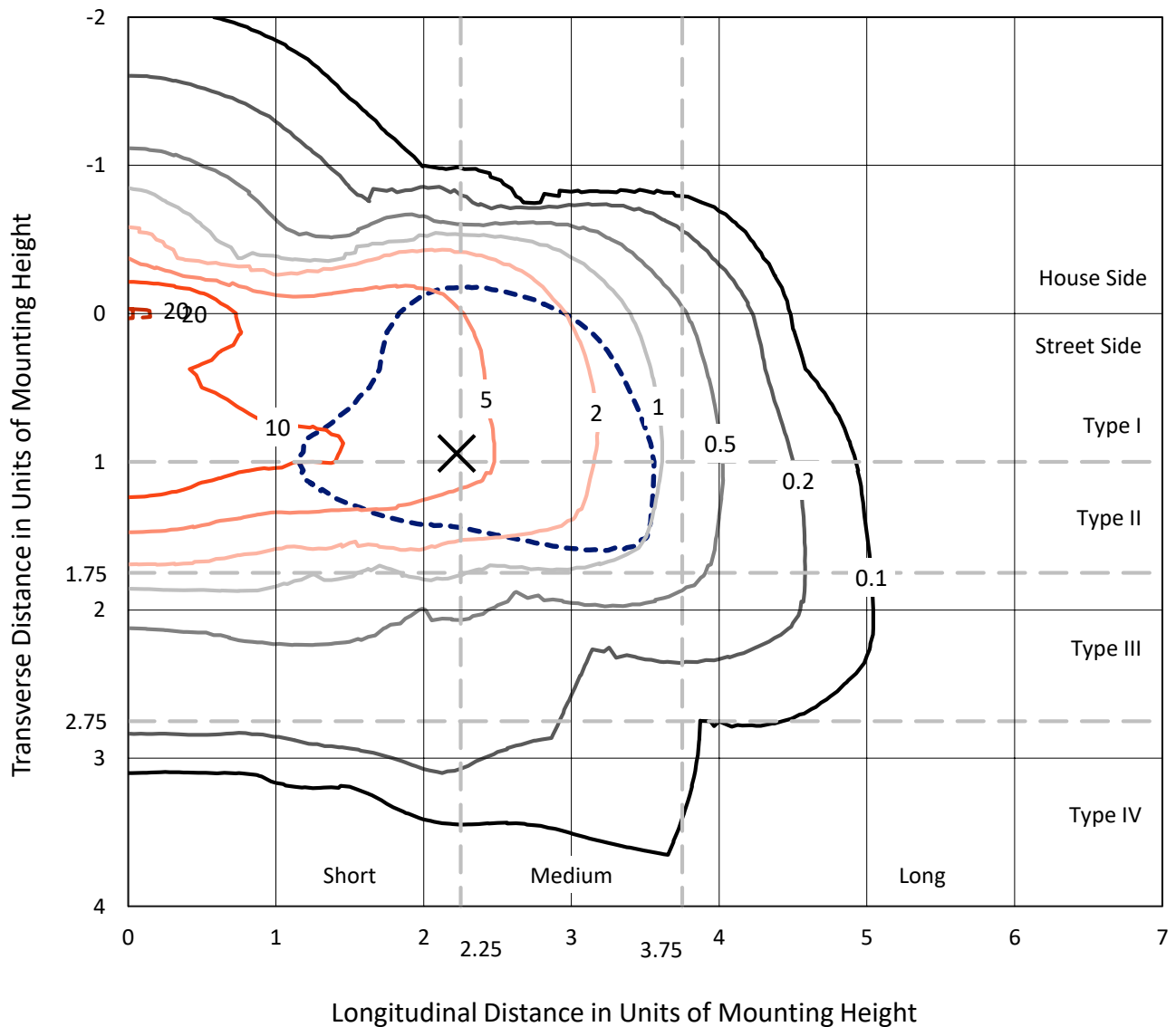
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

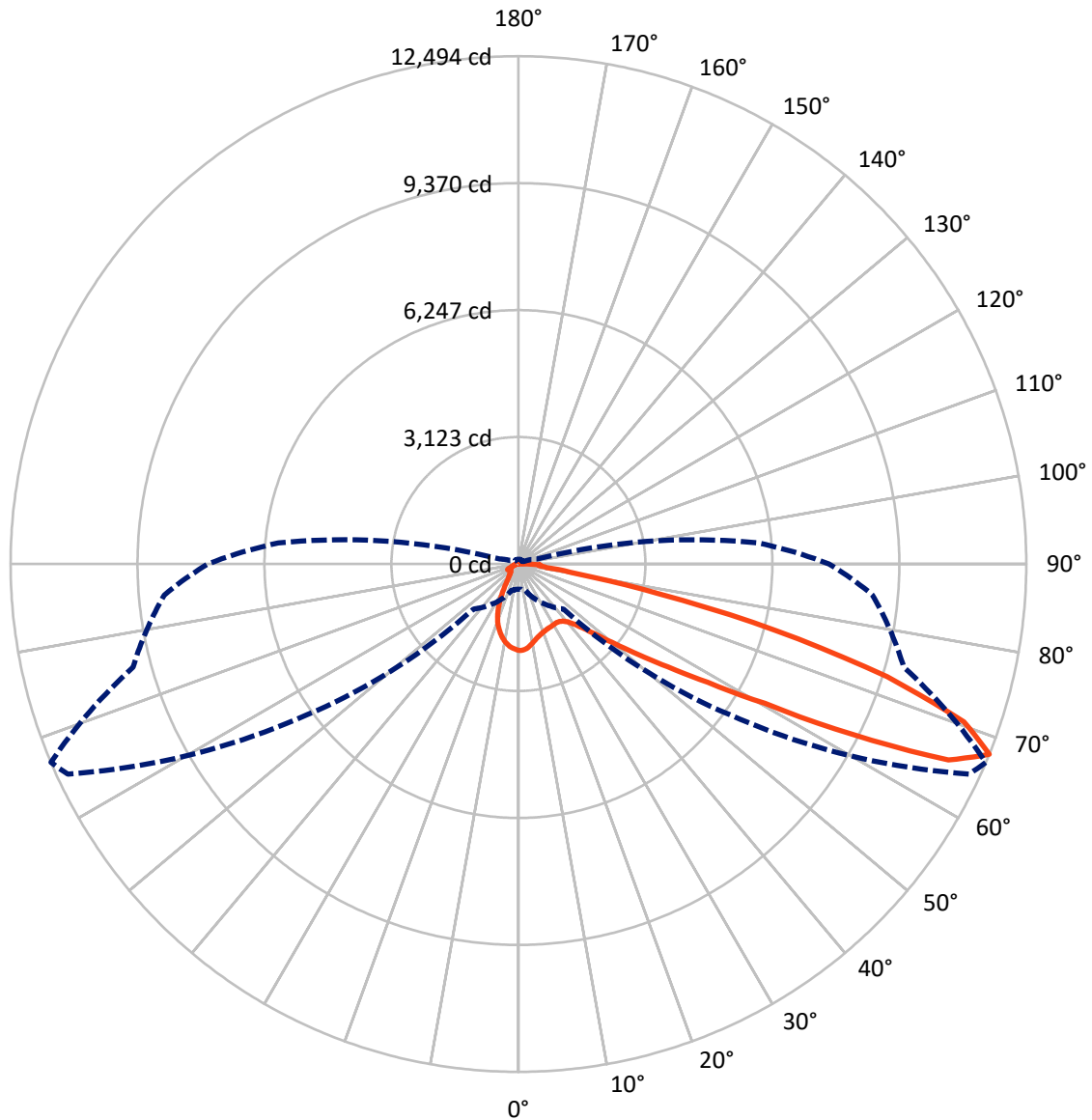
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1633.7 | 0.0 | 1633.7 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 8226.5 | 0.0 | 8226.5 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 9860.2 | 0.0 | 9860.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 181.5 | 1.8 |
| 10°-20° | 419.8 | 4.3 |
| 20°-30° | 569.1 | 5.8 |
| 30°-40° | 809.1 | 8.2 |
| 40°-50° | 1353.6 | 13.7 |
| 50°-60° | 2141.3 | 21.7 |
| 60°-70° | 2727.9 | 27.7 |
| 70°-80° | 1428.8 | 14.5 |
| 80°-90° | 229.2 | 2.3 |
| 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° | 9860.2 | 100.0 |
| 0°-180° | 9860.2 | 100.0 |

Coefficient of Utilization



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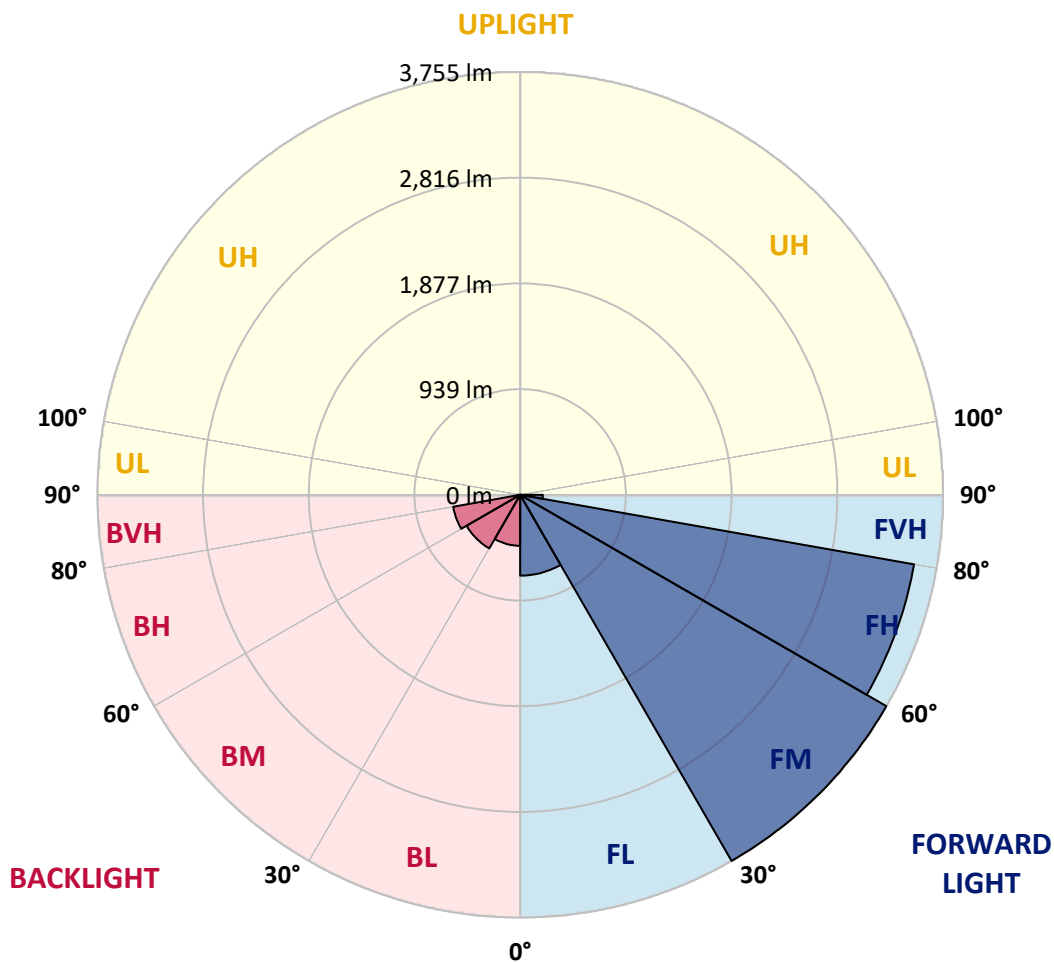
CATALOG NUMBER: GAN-AF-02-LED-U-SL2-800-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 717.6 | 7.3 | | | |
| FM | (30°-60°) | 3755.0 | 38.1 | | | |
| FH | (60°-80°) | 3552.4 | 36.0 | | | G2/5000 |
| FVH | (80°-90°) | 201.5 | 2.0 | | | G2/225 |
| BL | (0°-30°) | 452.8 | 4.6 | B1/500 | | |
| BM | (30°-60°) | 549.0 | 5.6 | B1/1000 | | |
| BH | (60°-80°) | 604.3 | 6.1 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 27.7 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0° | 2126.8 | 2126.8 | 2126.8 | 2126.8 | 2126.8 | 2126.8 | 2126.8 | 2126.8 | 2126.8 | 2126.8 | 2126.8 |
| 2.5° | 2039.3 | 2042.7 | 2053.4 | 2060.2 | 2090.8 | 2104.0 | 2113.2 | 2122.4 | 2124.0 | 2128.2 | 2124.0 |
| 5° | 1825.4 | 1832.6 | 1852.6 | 1875.0 | 1934.3 | 1980.9 | 2030.0 | 2081.1 | 2090.4 | 2123.4 | 2132.6 |
| 7.5° | 1659.5 | 1657.6 | 1674.2 | 1700.9 | 1761.6 | 1826.4 | 1912.4 | 2014.0 | 2033.9 | 2108.3 | 2144.3 |
| 10° | 1538.5 | 1537.0 | 1554.5 | 1582.2 | 1640.1 | 1701.4 | 1798.7 | 1937.7 | 1965.9 | 2084.6 | 2155.6 |
| 12.5° | 1449.0 | 1449.5 | 1467.0 | 1497.6 | 1556.4 | 1618.2 | 1716.9 | 1863.8 | 1899.7 | 2056.8 | 2167.2 |
| 15° | 1389.7 | 1393.6 | 1407.7 | 1440.2 | 1497.6 | 1559.4 | 1656.2 | 1808.4 | 1848.7 | 2035.0 | 2180.3 |
| 17.5° | 1369.7 | 1376.1 | 1380.9 | 1404.7 | 1453.8 | 1515.6 | 1610.4 | 1767.5 | 1810.3 | 2019.8 | 2192.0 |
| 20° | 1388.2 | 1395.5 | 1386.3 | 1394.6 | 1425.7 | 1480.1 | 1574.4 | 1735.4 | 1779.1 | 2002.8 | 2193.4 |
| 22.5° | 1467.5 | 1474.3 | 1447.1 | 1423.2 | 1421.3 | 1454.3 | 1544.8 | 1710.1 | 1755.4 | 1990.2 | 2193.9 |
| 25° | 1607.1 | 1611.5 | 1565.7 | 1510.3 | 1456.3 | 1445.1 | 1523.9 | 1692.6 | 1740.8 | 1979.0 | 2184.7 |
| 27.5° | 1778.2 | 1781.6 | 1729.1 | 1647.4 | 1538.9 | 1467.0 | 1516.6 | 1682.4 | 1732.5 | 1969.3 | 2169.2 |
| 30° | 1986.3 | 2002.3 | 1931.8 | 1828.7 | 1670.7 | 1531.7 | 1531.2 | 1677.0 | 1723.3 | 1952.7 | 2138.5 |
| 32.5° | 2199.2 | 2206.1 | 2157.5 | 2053.0 | 1848.2 | 1645.4 | 1572.1 | 1680.9 | 1720.8 | 1932.9 | 2099.6 |
| 35° | 2415.2 | 2423.9 | 2392.3 | 2308.2 | 2090.8 | 1812.3 | 1651.8 | 1703.8 | 1735.8 | 1926.0 | 2072.4 |
| 37.5° | 2694.8 | 2706.4 | 2662.6 | 2565.5 | 2386.0 | 2038.3 | 1784.5 | 1761.2 | 1782.1 | 1945.4 | 2064.1 |
| 40° | 3136.8 | 3131.4 | 3003.5 | 2858.6 | 2708.9 | 2327.6 | 1974.2 | 1858.4 | 1870.6 | 2008.2 | 2089.4 |
| 42.5° | 3651.2 | 3638.0 | 3417.8 | 3190.3 | 3063.8 | 2677.8 | 2225.0 | 2027.2 | 2024.7 | 2131.7 | 2178.4 |
| 45° | 4061.6 | 4050.9 | 3852.5 | 3571.9 | 3470.8 | 3076.4 | 2549.4 | 2278.5 | 2260.5 | 2327.6 | 2342.8 |
| 47.5° | 4283.8 | 4284.3 | 4170.1 | 3941.0 | 3938.6 | 3583.1 | 2966.0 | 2642.3 | 2611.1 | 2642.7 | 2626.7 |
| 50° | 4206.0 | 4216.2 | 4204.0 | 4131.1 | 4365.4 | 4247.3 | 3510.2 | 3149.4 | 3086.7 | 3117.7 | 3056.1 |
| 52.5° | 3829.6 | 3842.8 | 3914.7 | 4026.5 | 4544.9 | 5050.1 | 4309.6 | 3779.6 | 3706.7 | 3695.4 | 3626.9 |
| 55° | 3162.6 | 3178.6 | 3325.4 | 3629.3 | 4395.6 | 5589.4 | 5570.9 | 4582.8 | 4466.6 | 4361.1 | 4331.9 |
| 57.5° | 2179.8 | 2206.6 | 2442.9 | 2894.1 | 3912.8 | 5752.3 | 7072.9 | 5727.9 | 5491.6 | 5123.0 | 5129.9 |
| 60° | 1228.8 | 1259.9 | 1538.5 | 1948.4 | 2938.3 | 5575.3 | 8215.5 | 7462.3 | 6963.5 | 6015.4 | 6065.9 |
| 62.5° | 781.4 | 815.0 | 1026.4 | 1353.7 | 1763.2 | 4622.2 | 8683.8 | 9873.6 | 9240.1 | 7115.2 | 7164.7 |
| 65° | 632.6 | 647.2 | 746.9 | 1117.4 | 1280.3 | 2784.7 | 8328.4 | 11860.0 | 11623.6 | 8511.2 | 8279.8 |
| 67.5° | 617.6 | 622.4 | 673.9 | 937.9 | 1227.7 | 1565.2 | 6643.0 | 12231.4 | 12493.5 | 9814.8 | 8744.1 |
| 70° | 610.2 | 627.3 | 759.5 | 895.2 | 1175.8 | 1320.1 | 3992.1 | 11213.3 | 11627.1 | 10155.7 | 8126.1 |
| 72.5° | 296.1 | 295.1 | 382.2 | 809.6 | 1324.5 | 1369.2 | 2051.0 | 9072.8 | 9488.1 | 8798.6 | 6677.6 |
| 75° | 238.8 | 218.3 | 208.6 | 296.7 | 1273.5 | 1414.0 | 1307.0 | 6242.9 | 6543.4 | 5899.1 | 4104.9 |
| 77.5° | 226.6 | 202.2 | 185.3 | 185.8 | 538.3 | 1499.5 | 1107.1 | 3455.2 | 3542.8 | 2664.6 | 1124.6 |
| 80° | 187.7 | 165.3 | 153.1 | 172.6 | 260.6 | 1428.1 | 1197.2 | 1563.8 | 1434.9 | 654.5 | 374.4 |
| 82.5° | 130.3 | 118.7 | 115.3 | 144.8 | 208.6 | 1017.7 | 1392.1 | 840.3 | 704.6 | 327.8 | 231.0 |
| 85° | 83.2 | 71.0 | 78.8 | 105.5 | 162.4 | 469.7 | 1434.0 | 655.0 | 520.8 | 208.1 | 130.3 |
| 87.5° | 38.5 | 31.1 | 38.9 | 58.3 | 106.0 | 161.9 | 1364.4 | 735.7 | 536.3 | 109.9 | 82.1 |
| 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-SL2-800-ADJ

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2126.8 | 2126.8 | 2126.8 | 2126.8 | 2126.8 | 2126.8 | 2126.8 | 2126.8 | 2126.8 | 2126.8 | 2126.8 |
| 2.5° | 2127.8 | 2118.5 | 2111.3 | 2097.7 | 2082.6 | 2068.0 | 2054.9 | 2038.3 | 2033.4 | 2029.1 | 2035.9 |
| 5° | 2134.6 | 2125.4 | 2098.6 | 2056.8 | 2010.6 | 1967.3 | 1924.1 | 1887.1 | 1864.2 | 1851.6 | 1858.9 |
| 7.5° | 2144.8 | 2131.7 | 2076.3 | 1999.5 | 1916.3 | 1840.4 | 1762.1 | 1699.4 | 1653.2 | 1631.3 | 1637.6 |
| 10° | 2154.0 | 2128.8 | 2038.3 | 1923.0 | 1801.5 | 1688.7 | 1565.2 | 1463.1 | 1387.2 | 1347.3 | 1357.1 |
| 12.5° | 2157.9 | 2117.6 | 1985.3 | 1827.8 | 1661.0 | 1495.7 | 1313.9 | 1161.2 | 1052.2 | 1012.3 | 1004.1 |
| 15° | 2161.8 | 2104.9 | 1926.9 | 1719.4 | 1491.3 | 1257.4 | 1002.6 | 819.8 | 729.4 | 709.4 | 705.0 |
| 17.5° | 2162.8 | 2083.0 | 1860.8 | 1601.6 | 1292.4 | 974.0 | 685.6 | 569.4 | 569.9 | 602.0 | 605.9 |
| 20° | 2152.6 | 2050.5 | 1780.7 | 1455.4 | 1054.2 | 673.4 | 470.7 | 450.7 | 524.2 | 604.4 | 614.1 |
| 22.5° | 2129.3 | 2007.2 | 1689.7 | 1284.6 | 781.4 | 443.4 | 364.2 | 386.1 | 480.9 | 579.1 | 590.3 |
| 25° | 2099.6 | 1954.7 | 1582.2 | 1086.8 | 517.4 | 317.0 | 305.4 | 332.2 | 396.3 | 462.0 | 468.2 |
| 27.5° | 2059.2 | 1892.5 | 1461.7 | 860.2 | 336.0 | 261.2 | 268.9 | 286.8 | 313.1 | 342.3 | 345.2 |
| 30° | 2007.2 | 1818.1 | 1332.8 | 627.3 | 253.8 | 234.9 | 246.0 | 255.7 | 267.0 | 283.5 | 284.9 |
| 32.5° | 1947.4 | 1746.6 | 1200.5 | 433.2 | 225.2 | 221.3 | 230.0 | 234.9 | 243.6 | 253.8 | 254.8 |
| 35° | 1897.4 | 1678.6 | 1063.5 | 306.4 | 213.0 | 211.0 | 216.9 | 218.8 | 227.1 | 238.2 | 239.3 |
| 37.5° | 1868.6 | 1623.1 | 921.9 | 247.0 | 204.7 | 201.8 | 205.2 | 205.2 | 216.9 | 233.4 | 235.8 |
| 40° | 1870.6 | 1592.4 | 780.4 | 223.2 | 197.9 | 194.1 | 194.5 | 194.5 | 209.6 | 227.6 | 229.0 |
| 42.5° | 1923.6 | 1600.2 | 655.0 | 213.9 | 192.5 | 188.2 | 185.8 | 187.2 | 199.9 | 211.5 | 212.5 |
| 45° | 2048.0 | 1655.1 | 537.3 | 208.1 | 187.2 | 185.8 | 180.3 | 179.9 | 184.7 | 190.2 | 190.2 |
| 47.5° | 2252.2 | 1763.6 | 457.6 | 204.2 | 182.8 | 182.4 | 176.0 | 169.7 | 169.2 | 171.1 | 171.1 |
| 50° | 2584.4 | 1950.4 | 404.1 | 199.9 | 179.9 | 176.0 | 168.7 | 159.0 | 155.6 | 157.0 | 157.0 |
| 52.5° | 3082.3 | 2283.4 | 383.6 | 194.1 | 173.6 | 167.3 | 159.0 | 149.2 | 146.4 | 146.9 | 146.9 |
| 55° | 3735.3 | 2794.9 | 380.7 | 187.2 | 166.7 | 156.6 | 149.8 | 142.5 | 139.0 | 140.0 | 140.0 |
| 57.5° | 4533.2 | 3502.4 | 432.7 | 176.5 | 157.5 | 145.9 | 142.0 | 137.1 | 134.7 | 136.2 | 135.6 |
| 60° | 5503.3 | 4428.3 | 641.8 | 165.3 | 148.3 | 136.2 | 136.2 | 132.3 | 130.3 | 131.8 | 131.2 |
| 62.5° | 6620.6 | 5491.6 | 902.4 | 157.0 | 138.6 | 128.4 | 130.3 | 128.4 | 126.4 | 127.4 | 126.9 |
| 65° | 7611.7 | 6184.6 | 845.1 | 150.8 | 128.9 | 121.1 | 124.5 | 123.5 | 122.0 | 123.1 | 122.5 |
| 67.5° | 7640.3 | 5927.8 | 474.5 | 143.9 | 119.6 | 113.8 | 118.7 | 118.2 | 117.2 | 118.2 | 117.6 |
| 70° | 6818.6 | 5005.4 | 267.4 | 131.2 | 109.9 | 105.1 | 111.8 | 111.4 | 110.4 | 112.3 | 111.8 |
| 72.5° | 5463.0 | 3632.2 | 195.5 | 115.7 | 100.1 | 95.7 | 103.5 | 103.1 | 103.1 | 106.0 | 104.5 |
| 75° | 3143.5 | 1869.1 | 156.1 | 99.2 | 89.9 | 86.5 | 93.4 | 93.8 | 94.8 | 98.7 | 95.7 |
| 77.5° | 896.1 | 582.5 | 127.4 | 84.1 | 77.3 | 75.9 | 82.7 | 83.7 | 84.1 | 88.5 | 84.6 |
| 80° | 333.1 | 268.4 | 105.1 | 70.5 | 63.2 | 63.7 | 70.0 | 71.5 | 71.9 | 76.3 | 71.5 |
| 82.5° | 212.5 | 177.0 | 85.1 | 54.4 | 49.6 | 49.1 | 56.9 | 58.8 | 58.8 | 59.3 | 56.4 |
| 85° | 124.0 | 106.0 | 64.1 | 39.4 | 35.0 | 33.6 | 42.4 | 45.7 | 44.3 | 43.3 | 41.3 |
| 87.5° | 83.2 | 72.9 | 39.4 | 21.9 | 18.9 | 18.0 | 24.8 | 27.2 | 26.3 | 24.8 | 23.3 |
| 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)