

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: P266685

Luminaire Tested: **GAN-AF-02-LED-U-SL4-7027-1200-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266685  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
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-SL4-7027-1200-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11029.9 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G3

Input Watts (W): 129  
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

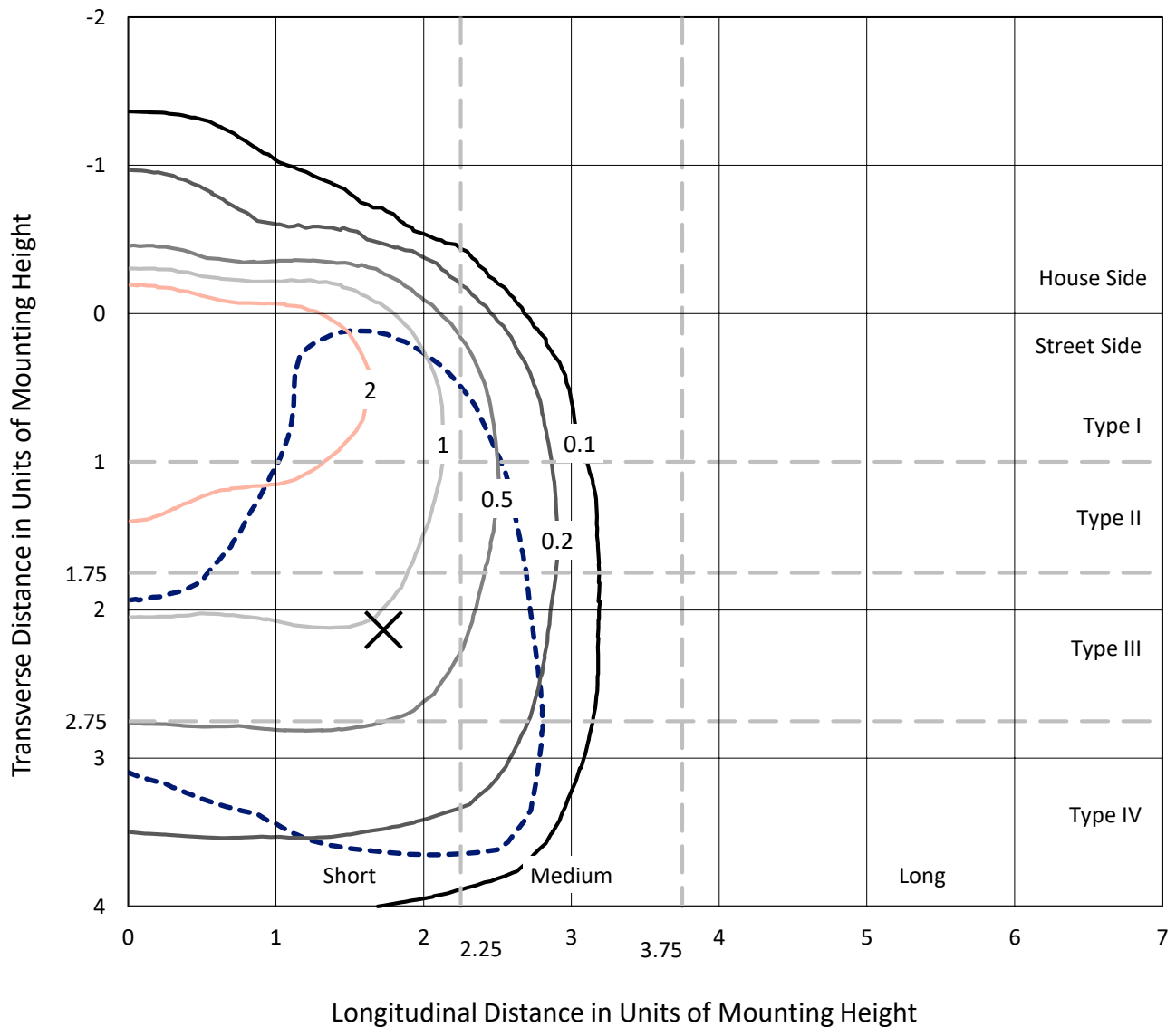


REPORT NUMBER: P266685

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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

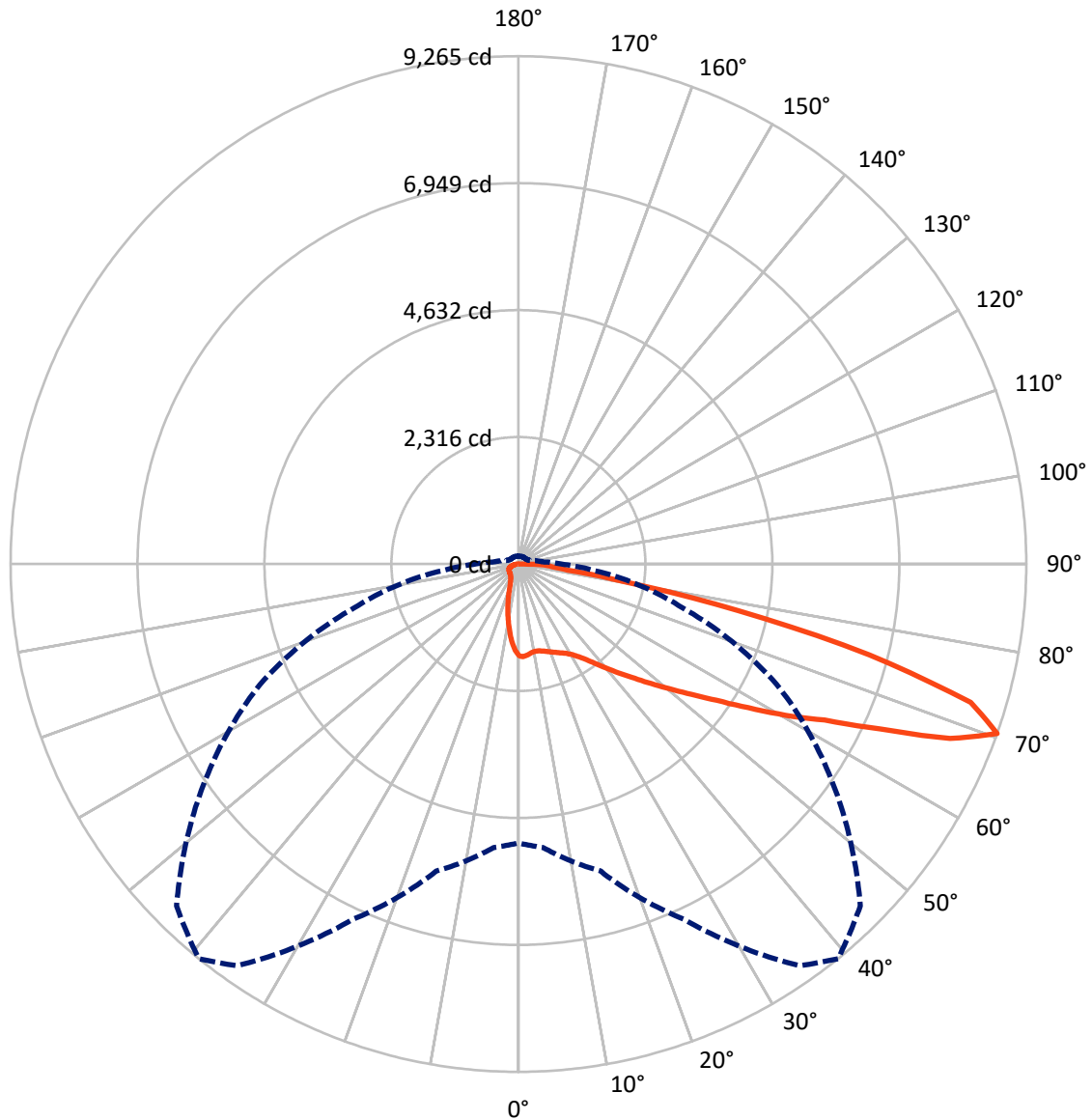


Based on 20 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P266685

CATALOG NUMBER: GAN-AF-02-LED-U-SL4-7027-1200-ADJ

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1254.5   | 0.0    | 1254.5  |
|                    | % Fixture | 11.4     | 0.0    | 11.4    |
| <b>Street Side</b> | Lumens    | 9775.4   | 0.0    | 9775.4  |
|                    | % Fixture | 88.6     | 0.0    | 88.6    |
| <b>Total</b>       | Lumens    | 11029.9  | 0.0    | 11029.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 143.7   | 1.3       |
| 10°-20°   | 359.2   | 3.3       |
| 20°-30°   | 559.3   | 5.1       |
| 30°-40°   | 871.3   | 7.9       |
| 40°-50°   | 1462.7  | 13.3      |
| 50°-60°   | 2323.7  | 21.1      |
| 60°-70°   | 3099.5  | 28.1      |
| 70°-80°   | 1871.7  | 17.0      |
| 80°-90°   | 338.8   | 3.1       |
| 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°    | 11029.9 | 100.0     |
| 0°-180°   | 11029.9 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P266685

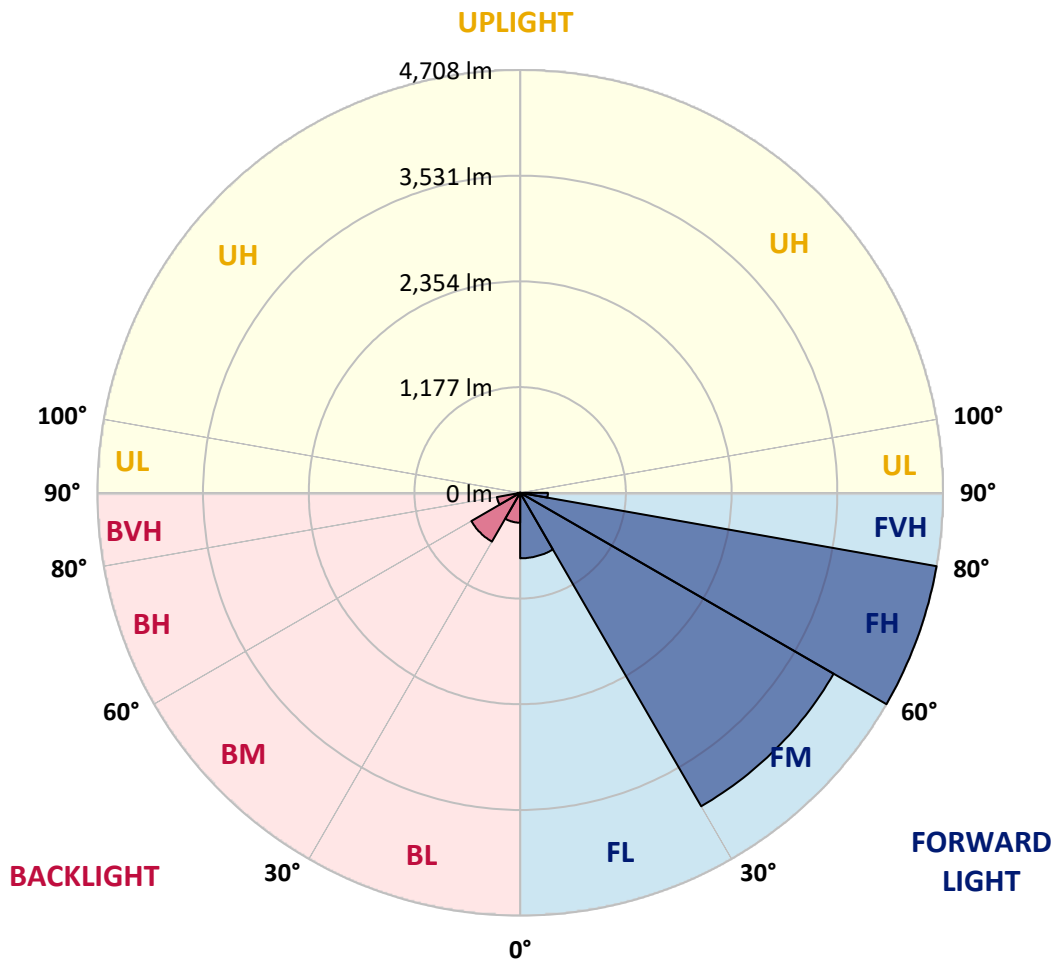
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 729.4  | 6.6       |                         |      |         |
| FM   | (30°-60°)   | 4029.9 | 36.5      |                         |      |         |
| FH   | (60°-80°)   | 4707.9 | 42.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 308.2  | 2.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 332.8  | 3.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 627.8  | 5.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 263.4  | 2.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 30.5   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type IV Short





REPORT NUMBER: P266685

CATALOG NUMBER: GAN-AF-02-LED-U-SL4-7027-1200-ADJ

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 39°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1674.5 | 1674.5 | 1674.5 | 1674.5 | 1674.5 | 1674.5 | 1674.5 | 1674.5 | 1674.5 | 1674.5 | 1674.5 |
| 2.5°  | 1707.0 | 1706.5 | 1702.0 | 1698.7 | 1695.8 | 1694.7 | 1697.0 | 1688.5 | 1681.3 | 1672.3 | 1662.8 |
| 5°    | 1694.2 | 1693.6 | 1686.3 | 1679.6 | 1672.9 | 1670.6 | 1669.9 | 1654.9 | 1646.0 | 1632.5 | 1614.6 |
| 7.5°  | 1680.1 | 1677.3 | 1667.8 | 1656.6 | 1644.7 | 1639.1 | 1633.6 | 1614.0 | 1603.8 | 1590.4 | 1569.7 |
| 10°   | 1665.5 | 1662.1 | 1653.2 | 1642.0 | 1630.8 | 1622.3 | 1612.8 | 1593.8 | 1583.2 | 1573.0 | 1548.9 |
| 12.5° | 1650.4 | 1647.6 | 1645.3 | 1640.2 | 1632.5 | 1625.2 | 1617.8 | 1601.6 | 1590.4 | 1578.6 | 1550.6 |
| 15°   | 1648.1 | 1647.0 | 1652.1 | 1655.4 | 1650.9 | 1646.5 | 1638.6 | 1624.7 | 1612.8 | 1601.0 | 1564.6 |
| 17.5° | 1666.0 | 1665.5 | 1678.5 | 1687.3 | 1685.2 | 1677.3 | 1666.6 | 1650.9 | 1641.5 | 1631.3 | 1585.9 |
| 20°   | 1705.3 | 1708.1 | 1723.8 | 1735.6 | 1724.4 | 1713.2 | 1695.8 | 1673.9 | 1669.0 | 1664.4 | 1607.7 |
| 22.5° | 1779.4 | 1782.1 | 1793.3 | 1797.9 | 1768.8 | 1752.5 | 1728.3 | 1700.3 | 1697.0 | 1700.3 | 1634.1 |
| 25°   | 1894.9 | 1892.1 | 1890.5 | 1873.5 | 1820.3 | 1795.1 | 1764.2 | 1735.0 | 1736.8 | 1752.0 | 1671.1 |
| 27.5° | 2048.0 | 2032.9 | 2009.2 | 1958.8 | 1874.1 | 1846.0 | 1808.6 | 1781.6 | 1792.3 | 1821.5 | 1726.6 |
| 30°   | 2206.6 | 2189.9 | 2135.5 | 2053.0 | 1944.8 | 1914.0 | 1871.9 | 1841.6 | 1869.6 | 1915.6 | 1800.7 |
| 32.5° | 2353.6 | 2351.4 | 2271.8 | 2165.8 | 2042.3 | 2015.4 | 1973.3 | 1939.3 | 1984.6 | 2054.8 | 1911.8 |
| 35°   | 2513.9 | 2519.0 | 2423.6 | 2296.3 | 2174.2 | 2146.1 | 2115.9 | 2090.0 | 2150.6 | 2247.1 | 2072.7 |
| 37.5° | 2685.7 | 2695.8 | 2582.9 | 2439.3 | 2324.5 | 2312.6 | 2294.7 | 2283.5 | 2377.2 | 2510.7 | 2297.5 |
| 40°   | 2915.0 | 2904.8 | 2748.5 | 2601.0 | 2509.0 | 2508.3 | 2502.8 | 2516.2 | 2672.2 | 2855.0 | 2586.3 |
| 42.5° | 3160.5 | 3130.9 | 2924.0 | 2774.2 | 2711.4 | 2730.5 | 2741.6 | 2796.7 | 3027.1 | 3273.3 | 2938.5 |
| 45°   | 3425.2 | 3358.6 | 3106.2 | 2957.6 | 2936.3 | 2976.7 | 3014.8 | 3134.2 | 3444.9 | 3749.4 | 3324.4 |
| 47.5° | 3636.7 | 3572.2 | 3294.7 | 3149.9 | 3196.4 | 3257.7 | 3331.1 | 3520.1 | 3912.6 | 4241.3 | 3705.1 |
| 50°   | 3803.2 | 3761.3 | 3484.7 | 3374.3 | 3483.1 | 3577.3 | 3697.2 | 3956.9 | 4399.4 | 4720.1 | 4057.9 |
| 52.5° | 3964.8 | 3933.4 | 3676.6 | 3604.2 | 3819.6 | 3949.6 | 4112.8 | 4425.7 | 4898.5 | 5191.1 | 4354.5 |
| 55°   | 4110.6 | 4088.1 | 3882.8 | 3890.6 | 4215.4 | 4384.7 | 4590.0 | 4959.6 | 5442.4 | 5611.3 | 4605.7 |
| 57.5° | 4274.9 | 4246.3 | 4118.4 | 4250.2 | 4724.0 | 4943.9 | 5210.8 | 5559.6 | 5952.8 | 5984.7 | 4796.9 |
| 60°   | 4440.3 | 4415.6 | 4379.7 | 4665.2 | 5370.1 | 5601.1 | 5854.1 | 6141.2 | 6470.3 | 6274.7 | 4785.7 |
| 62.5° | 4584.0 | 4586.7 | 4650.0 | 5100.9 | 6002.7 | 6270.2 | 6578.6 | 6862.3 | 6938.6 | 6325.1 | 4431.9 |
| 65°   | 4827.2 | 4871.6 | 5060.5 | 5717.8 | 6893.1 | 7250.9 | 7629.6 | 7584.1 | 7068.1 | 5853.4 | 3673.2 |
| 67.5° | 5116.7 | 5194.5 | 5577.5 | 6539.9 | 8018.7 | 8493.7 | 8640.1 | 7747.3 | 6549.5 | 4758.3 | 2618.3 |
| 70°   | 5087.5 | 5194.5 | 5800.7 | 7152.8 | 8946.2 | 9264.8 | 8820.5 | 7011.5 | 5200.7 | 3108.4 | 1390.8 |
| 72.5° | 4517.7 | 4670.7 | 5346.0 | 6871.9 | 8654.0 | 8626.1 | 7657.5 | 5227.1 | 3089.9 | 1248.4 | 543.5  |
| 75°   | 3443.3 | 3598.0 | 4178.9 | 5428.9 | 6840.0 | 6604.3 | 5433.5 | 2887.5 | 1172.6 | 495.8  | 342.7  |
| 77.5° | 1980.8 | 2100.6 | 2549.3 | 3329.4 | 4339.4 | 4097.7 | 3024.4 | 1284.1 | 571.0  | 345.5  | 267.4  |
| 80°   | 1105.9 | 1172.6 | 1445.2 | 1689.2 | 2126.5 | 1949.3 | 1353.1 | 798.1  | 426.2  | 250.6  | 206.4  |
| 82.5° | 874.3  | 933.7  | 1168.7 | 1065.5 | 971.2  | 896.1  | 777.3  | 710.5  | 340.4  | 158.1  | 123.3  |
| 85°   | 763.7  | 820.4  | 989.3  | 838.9  | 663.4  | 608.4  | 631.5  | 699.3  | 264.7  | 95.3   | 105.5  |
| 87.5° | 707.8  | 783.4  | 881.5  | 646.6  | 516.4  | 457.5  | 582.7  | 766.7  | 85.2   | 59.5   | 42.6   |
| 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: P266685

CATALOG NUMBER: GAN-AF-02-LED-U-SL4-7027-1200-ADJ

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1674.5 | 1674.5 | 1674.5 | 1674.5 | 1674.5 | 1674.5 | 1674.5 | 1674.5 | 1674.5 | 1674.5 | 1674.5 |
| 2.5°  | 1654.3 | 1645.3 | 1630.8 | 1617.8 | 1597.6 | 1587.0 | 1575.3 | 1566.9 | 1560.0 | 1554.4 | 1563.5 |
| 5°    | 1603.2 | 1586.4 | 1555.7 | 1522.5 | 1483.3 | 1452.4 | 1426.7 | 1402.6 | 1385.6 | 1374.4 | 1382.3 |
| 7.5°  | 1555.1 | 1527.6 | 1479.4 | 1419.3 | 1352.0 | 1294.8 | 1247.7 | 1206.2 | 1177.7 | 1159.2 | 1166.4 |
| 10°   | 1527.6 | 1493.4 | 1418.9 | 1324.6 | 1225.3 | 1136.1 | 1062.2 | 998.1  | 953.9  | 928.7  | 932.6  |
| 12.5° | 1520.8 | 1476.5 | 1373.4 | 1243.9 | 1108.1 | 984.2  | 879.9  | 791.2  | 729.1  | 696.5  | 697.7  |
| 15°   | 1526.0 | 1469.3 | 1330.7 | 1166.4 | 994.9  | 838.4  | 708.3  | 600.5  | 528.3  | 491.3  | 490.7  |
| 17.5° | 1534.3 | 1463.7 | 1285.8 | 1082.8 | 879.9  | 698.3  | 552.9  | 447.5  | 383.5  | 353.8  | 351.5  |
| 20°   | 1543.3 | 1454.6 | 1235.3 | 992.5  | 760.4  | 568.1  | 433.0  | 350.5  | 310.2  | 293.8  | 292.8  |
| 22.5° | 1556.1 | 1446.8 | 1183.2 | 897.2  | 643.2  | 462.6  | 356.1  | 300.7  | 279.3  | 270.8  | 269.8  |
| 25°   | 1577.0 | 1442.9 | 1127.7 | 798.1  | 537.7  | 386.9  | 310.2  | 275.9  | 263.6  | 258.0  | 257.5  |
| 27.5° | 1611.6 | 1448.4 | 1075.6 | 701.5  | 451.9  | 335.8  | 284.4  | 263.6  | 254.6  | 249.5  | 249.0  |
| 30°   | 1656.6 | 1465.9 | 1020.7 | 610.0  | 385.3  | 301.1  | 268.7  | 255.2  | 247.8  | 242.8  | 242.8  |
| 32.5° | 1731.2 | 1495.0 | 962.9  | 531.1  | 337.7  | 277.0  | 256.8  | 247.8  | 241.7  | 237.8  | 237.2  |
| 35°   | 1841.0 | 1550.0 | 909.1  | 465.4  | 303.4  | 259.6  | 246.8  | 239.9  | 235.5  | 233.3  | 233.3  |
| 37.5° | 2000.9 | 1636.9 | 861.4  | 418.3  | 282.6  | 247.8  | 237.2  | 232.1  | 229.3  | 229.3  | 229.3  |
| 40°   | 2215.7 | 1756.9 | 822.7  | 386.9  | 270.8  | 239.5  | 230.0  | 226.1  | 224.2  | 224.8  | 224.8  |
| 42.5° | 2480.8 | 1912.9 | 796.8  | 365.2  | 265.3  | 234.4  | 224.8  | 221.5  | 219.8  | 219.2  | 219.8  |
| 45°   | 2783.2 | 2090.0 | 794.1  | 348.8  | 259.6  | 231.0  | 221.5  | 218.2  | 214.8  | 212.4  | 212.4  |
| 47.5° | 3077.1 | 2270.0 | 817.1  | 343.2  | 253.5  | 227.1  | 218.6  | 215.4  | 210.4  | 205.3  | 205.3  |
| 50°   | 3336.7 | 2423.2 | 847.9  | 345.5  | 251.3  | 221.5  | 214.2  | 212.4  | 204.6  | 199.1  | 198.5  |
| 52.5° | 3543.1 | 2540.9 | 873.2  | 352.1  | 253.5  | 217.6  | 208.5  | 209.1  | 200.7  | 194.7  | 194.0  |
| 55°   | 3708.6 | 2618.3 | 866.4  | 359.0  | 258.5  | 215.4  | 203.6  | 204.6  | 197.9  | 191.8  | 191.8  |
| 57.5° | 3780.8 | 2589.8 | 791.9  | 353.4  | 262.5  | 216.0  | 199.7  | 204.2  | 198.5  | 193.0  | 193.0  |
| 60°   | 3625.5 | 2335.7 | 652.2  | 328.6  | 257.5  | 214.2  | 197.9  | 206.4  | 205.8  | 200.2  | 199.7  |
| 62.5° | 3155.6 | 1881.0 | 505.8  | 292.2  | 239.9  | 205.8  | 193.4  | 205.8  | 212.0  | 210.4  | 209.8  |
| 65°   | 2432.2 | 1339.7 | 386.5  | 253.0  | 216.4  | 191.8  | 181.6  | 193.0  | 201.3  | 203.6  | 202.9  |
| 67.5° | 1578.6 | 821.1  | 297.8  | 216.0  | 190.1  | 175.4  | 166.5  | 171.5  | 173.4  | 173.4  | 172.1  |
| 70°   | 776.1  | 441.8  | 237.2  | 181.6  | 163.2  | 158.1  | 153.2  | 150.2  | 147.5  | 145.3  | 145.3  |
| 72.5° | 382.9  | 288.9  | 195.1  | 153.7  | 140.8  | 138.5  | 137.4  | 134.0  | 131.8  | 128.9  | 127.9  |
| 75°   | 283.1  | 234.9  | 165.9  | 129.5  | 121.1  | 118.8  | 121.1  | 118.3  | 117.8  | 115.5  | 114.4  |
| 77.5° | 232.8  | 200.2  | 143.0  | 111.0  | 103.8  | 99.8   | 103.1  | 103.8  | 104.4  | 100.9  | 99.8   |
| 80°   | 189.1  | 169.4  | 119.5  | 91.9   | 85.2   | 82.5   | 84.7   | 89.1   | 90.3   | 85.2   | 83.1   |
| 82.5° | 136.3  | 138.5  | 96.5   | 71.8   | 66.1   | 63.9   | 68.5   | 74.0   | 75.2   | 67.8   | 66.1   |
| 85°   | 114.4  | 115.5  | 74.0   | 51.1   | 45.5   | 42.1   | 49.3   | 54.9   | 58.8   | 51.7   | 49.9   |
| 87.5° | 47.7   | 67.8   | 42.6   | 28.6   | 25.2   | 21.9   | 26.4   | 29.1   | 35.4   | 32.5   | 32.0   |
| 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)