

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: P268364

Luminaire Tested: **GAN-AF-03-LED-U-SL4-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268364
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-03-LED-U-SL4-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA 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: 12120.3 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

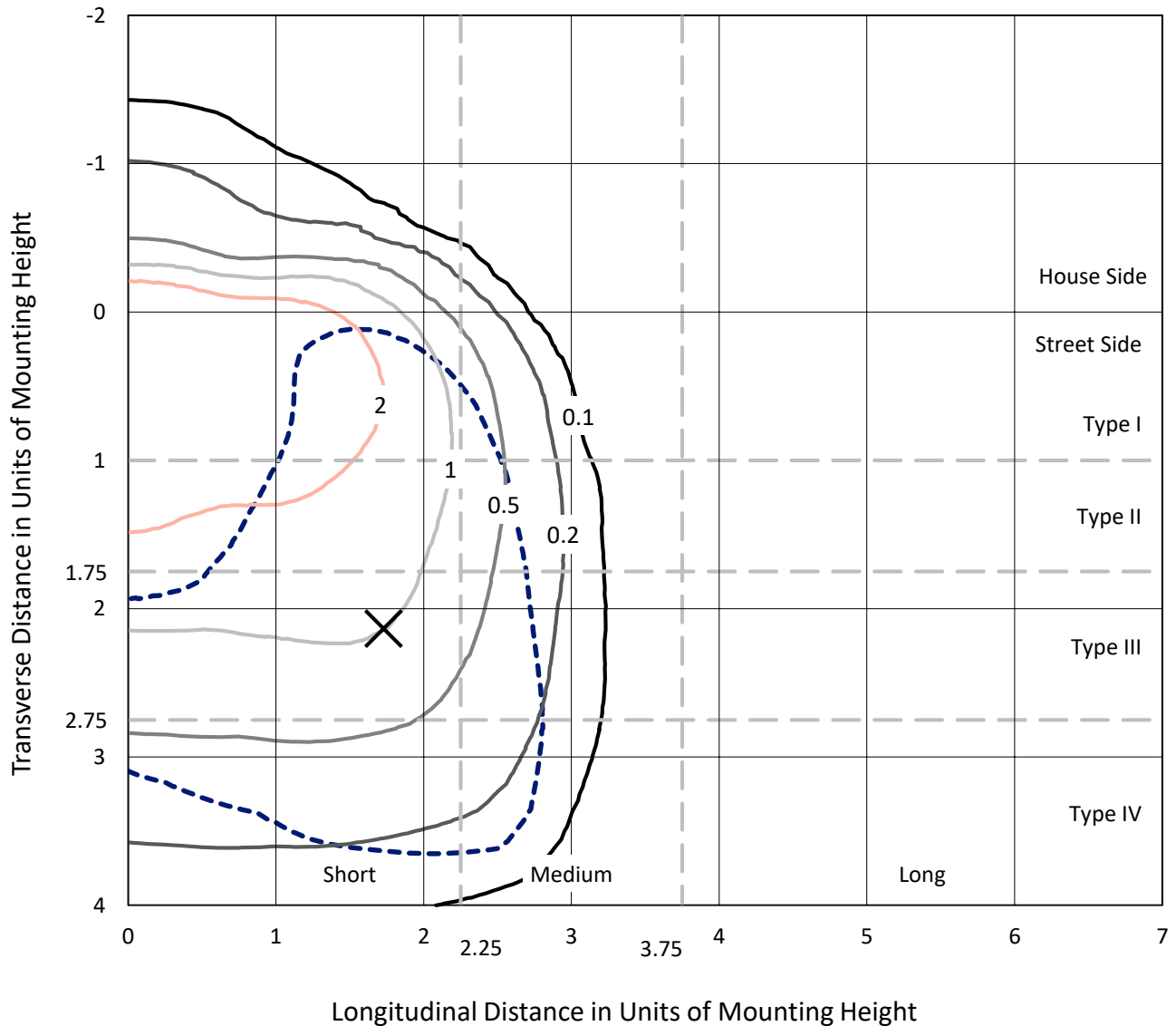
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

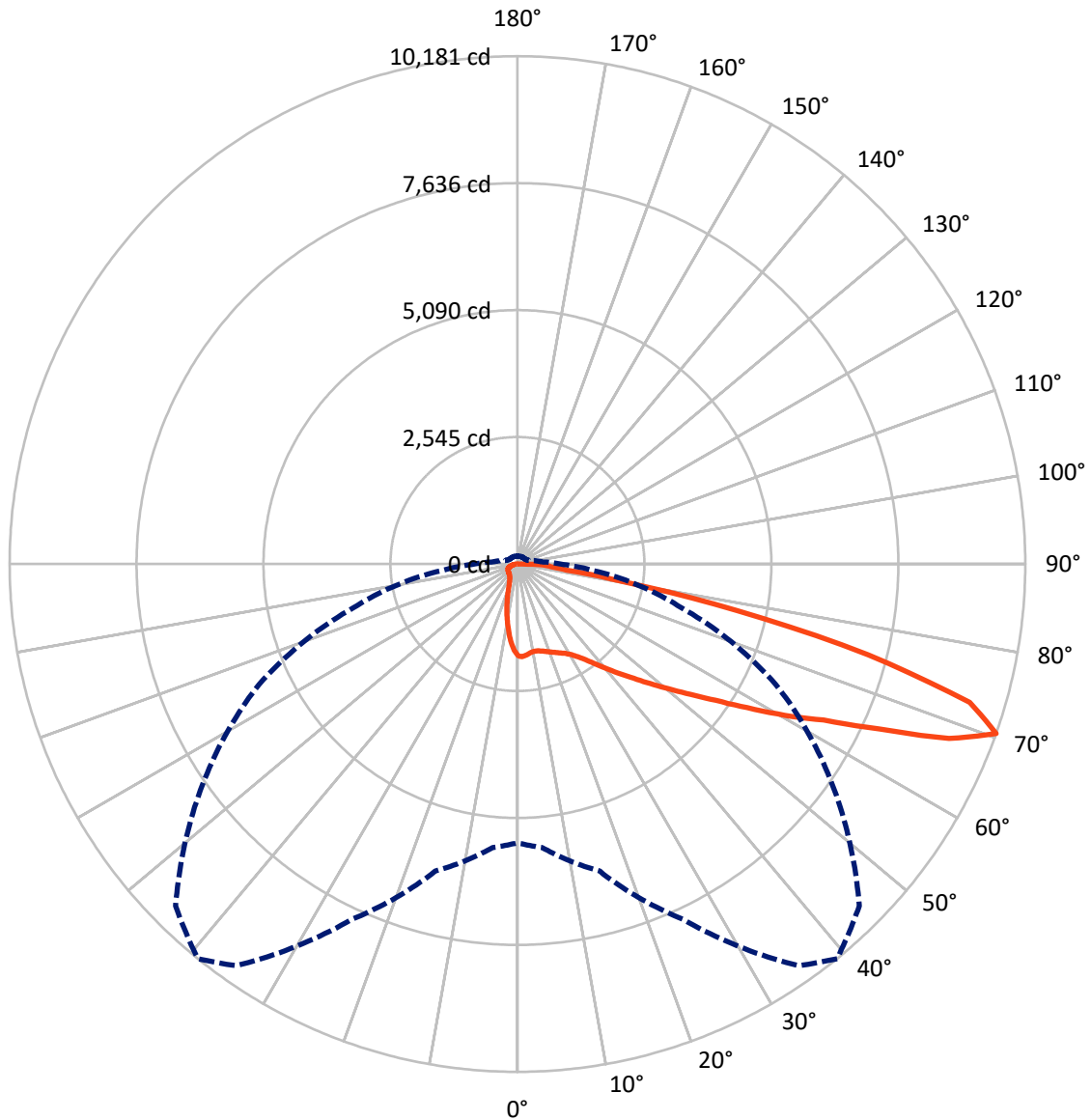
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - Semi-Cutoff

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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 |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1378.5 | 0.0 | 1378.5 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 10741.8 | 0.0 | 10741.8 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 12120.3 | 0.0 | 12120.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 157.9 | 1.3 |
| 10°-20° | 394.7 | 3.3 |
| 20°-30° | 614.6 | 5.1 |
| 30°-40° | 957.4 | 7.9 |
| 40°-50° | 1607.3 | 13.3 |
| 50°-60° | 2553.4 | 21.1 |
| 60°-70° | 3405.9 | 28.1 |
| 70°-80° | 2056.8 | 17.0 |
| 80°-90° | 372.2 | 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° | 12120.3 | 100.0 |
| 0°-180° | 12120.3 | 100.0 |

Coefficient of Utilization



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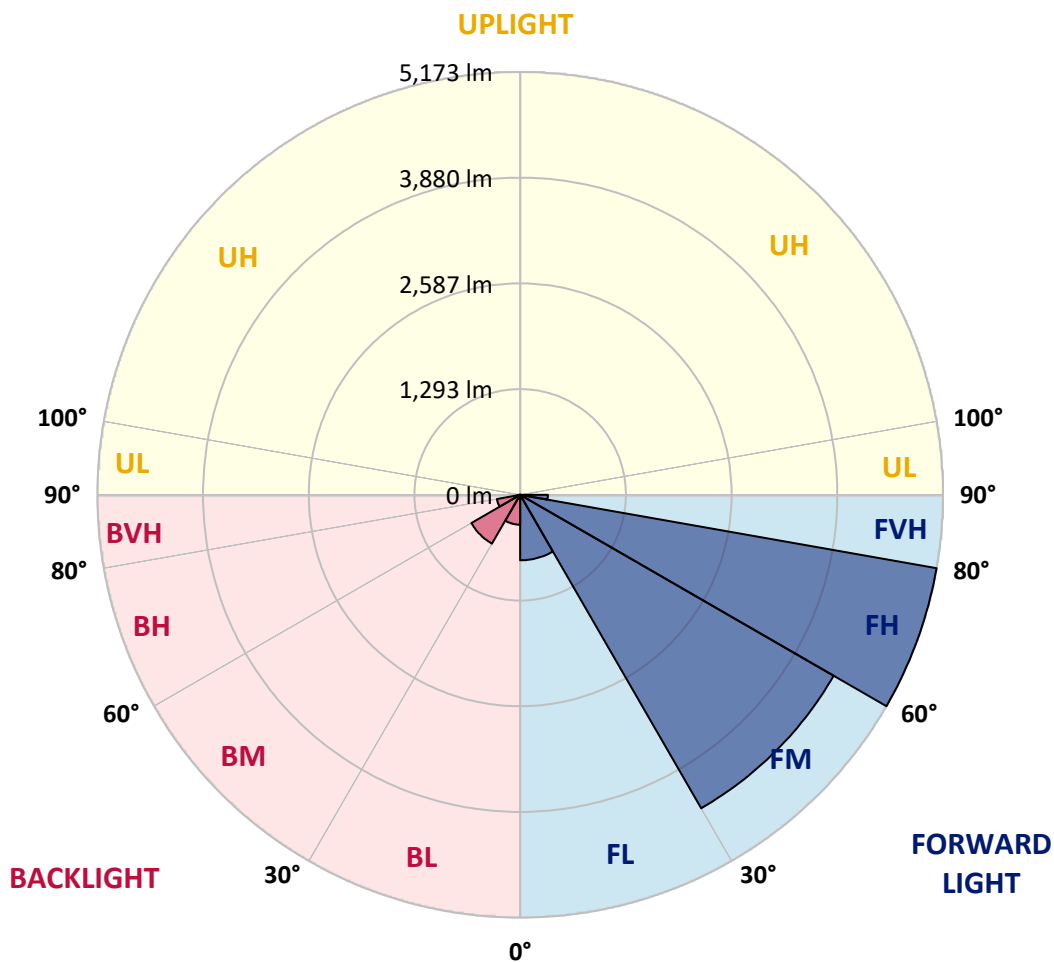
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 801.5 | 6.6 | | | |
| FM | (30°-60°) | 4428.3 | 36.5 | | | |
| FH | (60°-80°) | 5173.3 | 42.7 | | | G3/7500 |
| FVH | (80°-90°) | 338.7 | 2.8 | | | G3/500 |
| BL | (0°-30°) | 365.7 | 3.0 | B1/500 | | |
| BM | (30°-60°) | 689.9 | 5.7 | B1/1000 | | |
| BH | (60°-80°) | 289.4 | 2.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 33.6 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| 0° | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 |
| 2.5° | 1875.8 | 1875.2 | 1870.2 | 1866.6 | 1863.4 | 1862.2 | 1864.7 | 1855.4 | 1847.5 | 1837.7 | 1827.2 |
| 5° | 1861.6 | 1861.0 | 1853.1 | 1845.6 | 1838.2 | 1835.7 | 1835.1 | 1818.4 | 1808.6 | 1793.8 | 1774.2 |
| 7.5° | 1846.1 | 1843.1 | 1832.6 | 1820.3 | 1807.4 | 1801.2 | 1795.1 | 1773.6 | 1762.5 | 1747.7 | 1724.8 |
| 10° | 1830.1 | 1826.6 | 1816.6 | 1804.3 | 1791.9 | 1782.7 | 1772.3 | 1751.3 | 1739.6 | 1728.5 | 1702.0 |
| 12.5° | 1813.6 | 1810.4 | 1808.0 | 1802.4 | 1793.8 | 1785.8 | 1777.8 | 1759.9 | 1747.7 | 1734.6 | 1703.8 |
| 15° | 1811.2 | 1809.8 | 1815.5 | 1819.1 | 1814.1 | 1809.2 | 1800.7 | 1785.2 | 1772.3 | 1759.3 | 1719.3 |
| 17.5° | 1830.8 | 1830.1 | 1844.4 | 1854.2 | 1851.8 | 1843.1 | 1831.5 | 1814.1 | 1803.6 | 1792.6 | 1742.7 |
| 20° | 1874.0 | 1877.0 | 1894.3 | 1907.2 | 1894.9 | 1882.6 | 1863.4 | 1839.4 | 1833.9 | 1828.9 | 1766.7 |
| 22.5° | 1955.3 | 1958.3 | 1970.7 | 1975.6 | 1943.6 | 1925.6 | 1899.1 | 1868.5 | 1864.7 | 1868.5 | 1795.7 |
| 25° | 2082.2 | 2079.1 | 2077.3 | 2058.8 | 2000.3 | 1972.6 | 1938.6 | 1906.7 | 1908.4 | 1925.1 | 1836.3 |
| 27.5° | 2250.4 | 2233.8 | 2207.9 | 2152.5 | 2059.5 | 2028.6 | 1987.3 | 1957.8 | 1969.4 | 2001.6 | 1897.4 |
| 30° | 2424.9 | 2406.4 | 2346.6 | 2256.1 | 2137.1 | 2103.2 | 2056.9 | 2023.7 | 2054.6 | 2105.0 | 1978.6 |
| 32.5° | 2586.3 | 2583.9 | 2496.3 | 2379.9 | 2244.2 | 2214.7 | 2168.5 | 2130.9 | 2180.8 | 2257.9 | 2100.7 |
| 35° | 2762.6 | 2768.0 | 2663.4 | 2523.5 | 2389.1 | 2358.3 | 2325.1 | 2296.6 | 2363.3 | 2469.3 | 2277.6 |
| 37.5° | 2951.1 | 2962.3 | 2838.4 | 2680.6 | 2554.3 | 2541.3 | 2521.6 | 2509.2 | 2612.2 | 2758.9 | 2524.6 |
| 40° | 3203.1 | 3192.0 | 3020.1 | 2858.0 | 2757.0 | 2756.4 | 2750.3 | 2765.1 | 2936.3 | 3137.2 | 2842.1 |
| 42.5° | 3473.0 | 3440.4 | 3213.0 | 3048.5 | 2979.5 | 3000.3 | 3012.7 | 3073.1 | 3326.5 | 3597.0 | 3229.0 |
| 45° | 3763.9 | 3690.5 | 3413.3 | 3250.0 | 3226.5 | 3270.9 | 3312.8 | 3444.1 | 3785.5 | 4120.0 | 3653.0 |
| 47.5° | 3996.2 | 3925.4 | 3620.3 | 3461.3 | 3512.6 | 3579.7 | 3660.4 | 3868.0 | 4299.4 | 4660.5 | 4071.4 |
| 50° | 4179.3 | 4133.0 | 3829.3 | 3707.8 | 3827.4 | 3931.0 | 4062.8 | 4348.1 | 4834.3 | 5186.8 | 4458.9 |
| 52.5° | 4356.7 | 4322.3 | 4039.9 | 3960.4 | 4197.2 | 4340.2 | 4519.5 | 4863.2 | 5382.7 | 5704.3 | 4785.0 |
| 55° | 4516.9 | 4492.2 | 4266.8 | 4275.4 | 4632.2 | 4818.2 | 5043.9 | 5449.8 | 5980.5 | 6166.0 | 5061.1 |
| 57.5° | 4697.4 | 4666.1 | 4525.7 | 4670.4 | 5191.0 | 5432.7 | 5725.9 | 6109.3 | 6541.3 | 6576.3 | 5271.3 |
| 60° | 4879.2 | 4852.1 | 4812.7 | 5126.4 | 5901.0 | 6154.8 | 6432.9 | 6748.2 | 7110.1 | 6894.9 | 5258.9 |
| 62.5° | 5037.1 | 5040.1 | 5109.7 | 5605.2 | 6596.1 | 6890.0 | 7228.9 | 7540.7 | 7624.5 | 6950.5 | 4870.0 |
| 65° | 5304.5 | 5353.2 | 5560.8 | 6283.0 | 7574.7 | 7967.7 | 8383.7 | 8333.8 | 7766.9 | 6432.1 | 4036.3 |
| 67.5° | 5622.4 | 5708.1 | 6129.0 | 7186.4 | 8811.5 | 9333.4 | 9494.1 | 8513.1 | 7197.0 | 5228.7 | 2877.1 |
| 70° | 5590.4 | 5708.1 | 6374.3 | 7860.0 | 9830.6 | 10180.8 | 9692.6 | 7704.7 | 5714.8 | 3415.7 | 1528.2 |
| 72.5° | 4964.4 | 5132.6 | 5874.5 | 7551.2 | 9509.5 | 9478.7 | 8414.6 | 5743.9 | 3395.5 | 1371.7 | 597.2 |
| 75° | 3783.7 | 3953.7 | 4592.1 | 5965.6 | 7516.1 | 7257.2 | 5970.7 | 3173.0 | 1288.4 | 544.7 | 376.5 |
| 77.5° | 2176.6 | 2308.4 | 2801.4 | 3658.5 | 4768.4 | 4502.8 | 3323.3 | 1411.1 | 627.3 | 379.7 | 293.9 |
| 80° | 1215.1 | 1288.4 | 1588.1 | 1856.1 | 2336.8 | 2142.0 | 1487.0 | 876.8 | 468.3 | 275.5 | 226.7 |
| 82.5° | 960.6 | 1026.0 | 1284.1 | 1170.9 | 1067.2 | 984.7 | 854.1 | 780.7 | 374.1 | 173.8 | 135.6 |
| 85° | 839.2 | 901.4 | 1086.9 | 921.9 | 729.1 | 668.6 | 693.9 | 768.4 | 290.8 | 104.7 | 115.8 |
| 87.5° | 777.8 | 860.8 | 968.7 | 710.5 | 567.5 | 502.8 | 640.2 | 842.4 | 93.7 | 65.3 | 46.8 |
| 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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CATALOG NUMBER: GAN-AF-03-LED-U-SL4-7027-800

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 | 1840.1 |
| 2.5° | 1817.9 | 1808.0 | 1791.9 | 1777.8 | 1755.6 | 1743.9 | 1730.9 | 1721.7 | 1714.3 | 1708.1 | 1718.1 |
| 5° | 1761.8 | 1743.3 | 1709.5 | 1673.1 | 1630.0 | 1596.0 | 1567.7 | 1541.2 | 1522.6 | 1510.4 | 1519.0 |
| 7.5° | 1708.8 | 1678.7 | 1625.7 | 1559.6 | 1485.7 | 1422.8 | 1371.2 | 1325.4 | 1294.1 | 1273.7 | 1281.7 |
| 10° | 1678.7 | 1641.1 | 1559.1 | 1455.6 | 1346.5 | 1248.5 | 1167.2 | 1096.9 | 1048.2 | 1020.5 | 1024.7 |
| 12.5° | 1671.1 | 1622.5 | 1509.2 | 1366.9 | 1217.7 | 1081.5 | 966.8 | 869.5 | 801.1 | 765.4 | 766.6 |
| 15° | 1676.7 | 1614.6 | 1462.4 | 1281.7 | 1093.1 | 921.2 | 778.3 | 660.0 | 580.5 | 539.8 | 539.3 |
| 17.5° | 1685.9 | 1608.3 | 1413.0 | 1190.0 | 966.8 | 767.2 | 607.7 | 491.7 | 421.6 | 388.8 | 386.5 |
| 20° | 1695.9 | 1598.5 | 1357.6 | 1090.7 | 835.7 | 624.2 | 475.7 | 385.2 | 340.7 | 322.9 | 321.7 |
| 22.5° | 1710.1 | 1589.9 | 1300.2 | 986.0 | 706.7 | 508.4 | 391.3 | 330.2 | 307.0 | 297.7 | 296.4 |
| 25° | 1732.8 | 1585.6 | 1239.2 | 876.8 | 590.9 | 425.2 | 340.7 | 303.2 | 289.7 | 283.4 | 282.8 |
| 27.5° | 1771.1 | 1591.6 | 1181.9 | 770.8 | 496.7 | 369.2 | 312.4 | 289.7 | 279.7 | 274.3 | 273.7 |
| 30° | 1820.3 | 1610.8 | 1121.5 | 670.5 | 423.3 | 330.9 | 295.2 | 280.5 | 272.4 | 266.8 | 266.8 |
| 32.5° | 1902.3 | 1642.9 | 1058.1 | 583.5 | 371.0 | 304.4 | 282.2 | 272.4 | 265.5 | 261.2 | 260.7 |
| 35° | 2023.1 | 1703.2 | 998.9 | 511.5 | 333.5 | 285.3 | 271.2 | 263.7 | 258.8 | 256.3 | 256.3 |
| 37.5° | 2198.7 | 1798.8 | 946.5 | 459.8 | 310.5 | 272.4 | 260.7 | 255.1 | 252.1 | 252.1 | 252.1 |
| 40° | 2434.6 | 1930.6 | 904.1 | 425.2 | 297.7 | 263.2 | 252.7 | 248.3 | 246.4 | 247.2 | 247.2 |
| 42.5° | 2726.1 | 2101.9 | 875.7 | 401.2 | 291.5 | 257.5 | 247.2 | 243.4 | 241.6 | 240.9 | 241.6 |
| 45° | 3058.3 | 2296.6 | 872.6 | 383.2 | 285.3 | 254.0 | 243.4 | 239.7 | 236.1 | 233.6 | 233.6 |
| 47.5° | 3381.2 | 2494.5 | 897.9 | 377.1 | 278.6 | 249.5 | 240.3 | 236.7 | 231.0 | 225.6 | 225.6 |
| 50° | 3666.5 | 2662.8 | 931.7 | 379.7 | 276.0 | 243.4 | 235.4 | 233.6 | 224.9 | 218.7 | 218.2 |
| 52.5° | 3893.3 | 2792.1 | 959.5 | 387.0 | 278.6 | 239.0 | 229.2 | 229.8 | 220.7 | 213.8 | 213.2 |
| 55° | 4075.2 | 2877.1 | 952.1 | 394.4 | 284.0 | 236.7 | 223.7 | 224.9 | 217.5 | 210.7 | 210.7 |
| 57.5° | 4154.7 | 2845.7 | 870.1 | 388.2 | 288.4 | 237.2 | 219.4 | 224.2 | 218.2 | 212.0 | 212.0 |
| 60° | 3984.0 | 2566.5 | 716.7 | 361.1 | 282.8 | 235.4 | 217.5 | 226.7 | 226.2 | 219.9 | 219.4 |
| 62.5° | 3467.5 | 2066.8 | 555.8 | 321.1 | 263.7 | 226.2 | 212.5 | 226.2 | 232.9 | 231.0 | 230.4 |
| 65° | 2672.5 | 1472.1 | 424.5 | 277.9 | 238.0 | 210.7 | 199.7 | 212.0 | 221.3 | 223.7 | 223.0 |
| 67.5° | 1734.6 | 902.2 | 327.3 | 237.2 | 208.9 | 192.9 | 183.1 | 188.6 | 190.4 | 190.4 | 189.3 |
| 70° | 852.9 | 485.5 | 260.7 | 199.7 | 179.3 | 173.8 | 168.3 | 165.2 | 162.1 | 159.5 | 159.5 |
| 72.5° | 420.9 | 317.3 | 214.4 | 168.8 | 154.7 | 152.3 | 150.9 | 147.3 | 144.7 | 141.8 | 140.6 |
| 75° | 311.3 | 258.3 | 182.4 | 142.3 | 133.0 | 130.7 | 133.0 | 130.1 | 129.4 | 126.9 | 125.8 |
| 77.5° | 255.7 | 219.9 | 157.2 | 122.0 | 114.1 | 109.8 | 113.4 | 114.1 | 114.7 | 110.9 | 109.8 |
| 80° | 207.7 | 186.0 | 131.2 | 101.1 | 93.7 | 90.5 | 93.1 | 97.9 | 99.3 | 93.7 | 91.2 |
| 82.5° | 149.7 | 152.3 | 106.0 | 79.0 | 72.8 | 70.2 | 75.2 | 81.3 | 82.6 | 74.6 | 72.8 |
| 85° | 125.8 | 126.9 | 81.3 | 56.1 | 49.9 | 46.3 | 54.3 | 60.4 | 64.7 | 56.8 | 54.8 |
| 87.5° | 52.5 | 74.6 | 46.8 | 31.4 | 27.8 | 24.1 | 28.9 | 32.0 | 38.8 | 35.8 | 35.2 |
| 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)