

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: P191240

Luminaire Tested: **GAN-AF-02-LED-U-SL4-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191240
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-SL4-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 9564.6 lumens
Efficiency: N/A
Efficacy: 112.5 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): 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

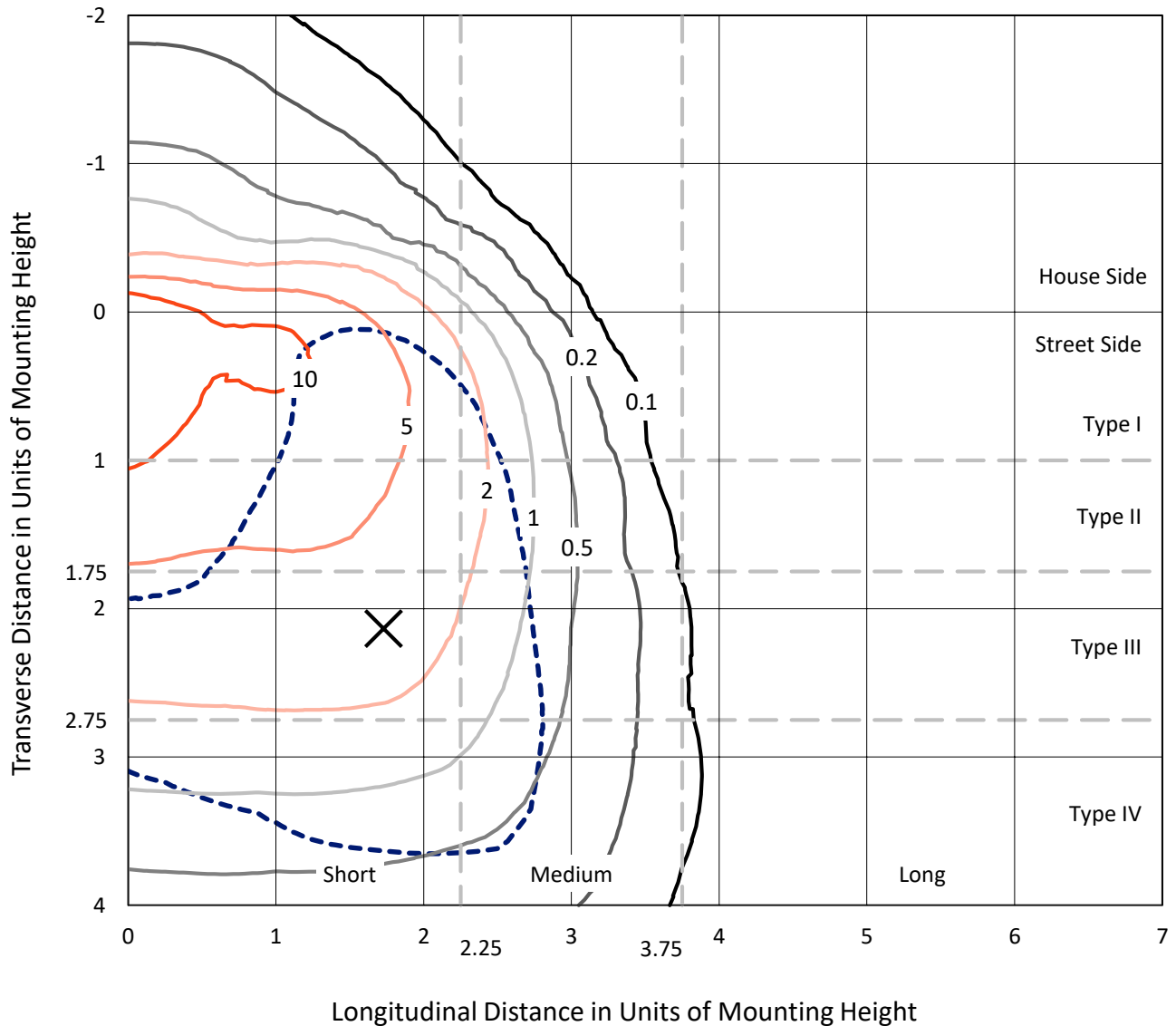


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Iso-Footcandle Lines of Horizontal Illumination

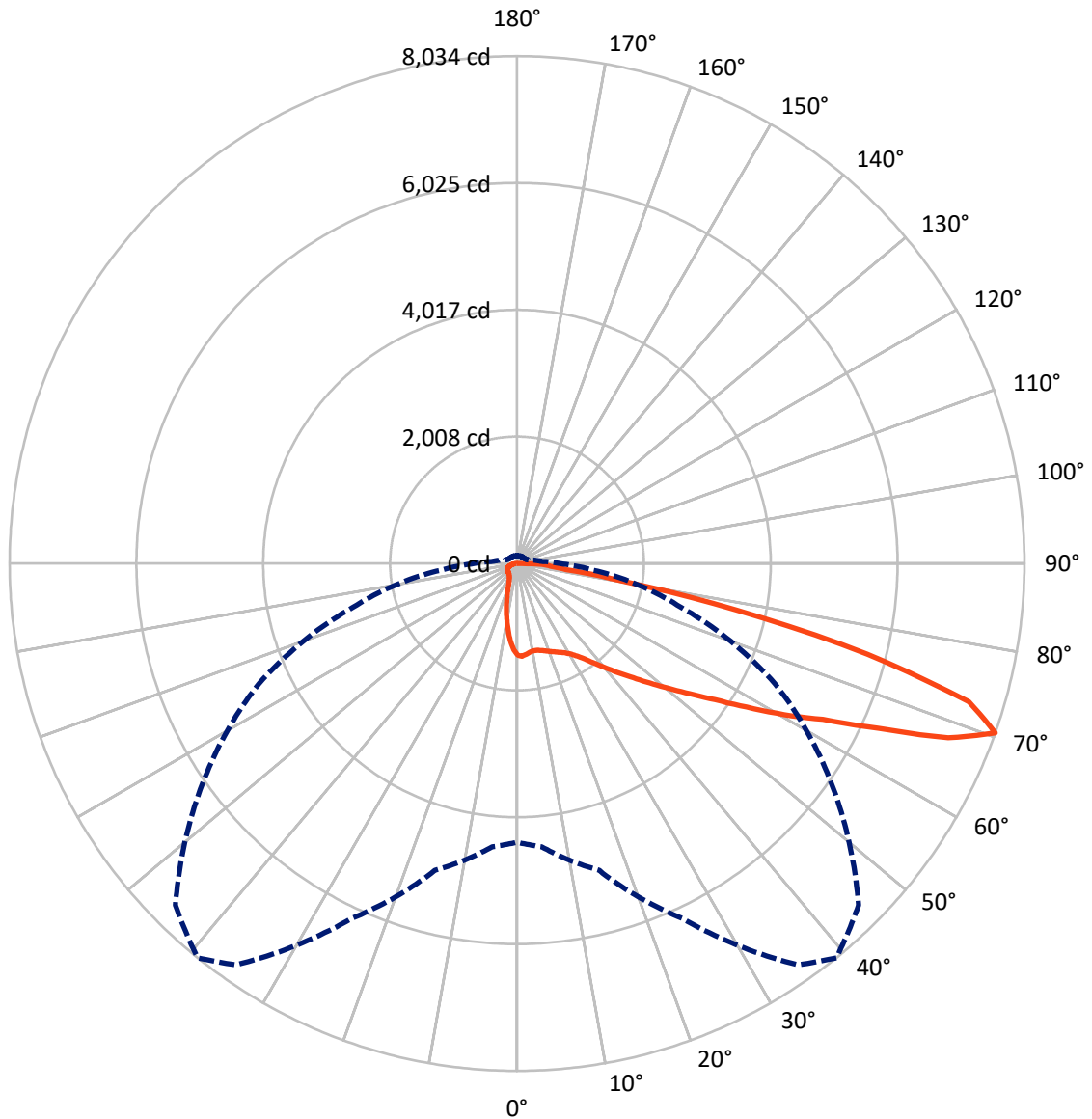
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.5 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 | 1087.8 | 0.0 | 1087.8 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 8476.8 | 0.0 | 8476.8 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 9564.6 | 0.0 | 9564.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 124.6 | 1.3 |
| 10°-20° | 311.5 | 3.3 |
| 20°-30° | 485.0 | 5.1 |
| 30°-40° | 755.5 | 7.9 |
| 40°-50° | 1268.4 | 13.3 |
| 50°-60° | 2015.0 | 21.1 |
| 60°-70° | 2687.8 | 28.1 |
| 70°-80° | 1623.1 | 17.0 |
| 80°-90° | 293.8 | 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° | 9564.6 | 100.0 |
| 0°-180° | 9564.6 | 100.0 |

Coefficient of Utilization



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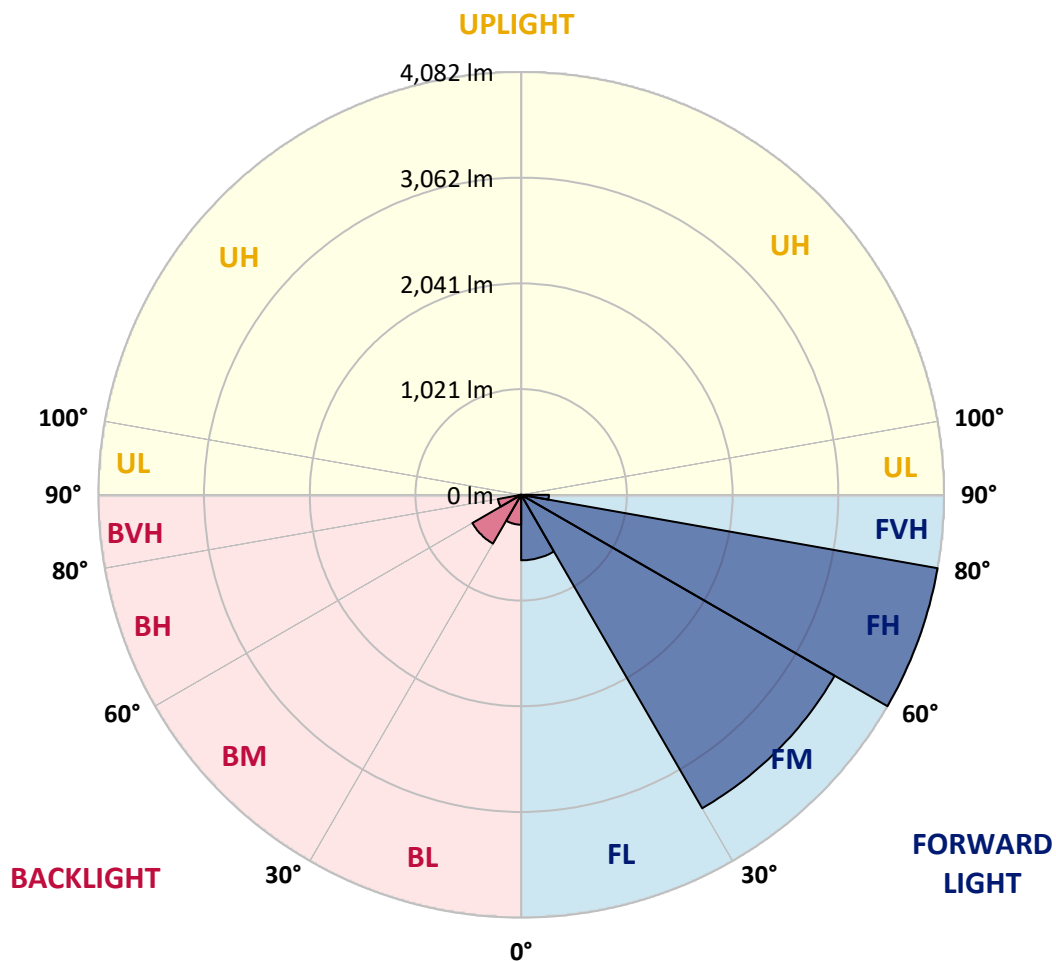
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 632.5 | 6.6 | | | |
| FM (30°-60°) | 3494.5 | 36.5 | | | |
| FH (60°-80°) | 4082.4 | 42.7 | | | G2/5000 |
| FVH (80°-90°) | 267.3 | 2.8 | | | G3/500 |
| BL (0°-30°) | 288.6 | 3.0 | B1/500 | | |
| BM (30°-60°) | 544.4 | 5.7 | B1/1000 | | |
| BH (60°-80°) | 228.4 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 26.5 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1452.1 | 1452.1 | 1452.1 | 1452.1 | 1452.1 | 1452.1 | 1452.1 | 1452.1 | 1452.1 | 1452.1 | 1452.1 |
| 2.5° | 1480.2 | 1479.8 | 1475.9 | 1472.9 | 1470.5 | 1469.6 | 1471.5 | 1464.3 | 1457.9 | 1450.1 | 1441.8 |
| 5° | 1469.1 | 1468.5 | 1462.3 | 1456.5 | 1450.5 | 1448.6 | 1448.2 | 1435.0 | 1427.2 | 1415.6 | 1400.0 |
| 7.5° | 1456.9 | 1454.5 | 1446.2 | 1436.5 | 1426.3 | 1421.4 | 1416.6 | 1399.5 | 1390.8 | 1379.1 | 1361.1 |
| 10° | 1444.3 | 1441.3 | 1433.6 | 1423.8 | 1414.1 | 1406.9 | 1398.6 | 1382.0 | 1372.8 | 1364.0 | 1343.1 |
| 12.5° | 1431.1 | 1428.8 | 1426.8 | 1422.4 | 1415.6 | 1409.2 | 1403.0 | 1388.9 | 1379.1 | 1368.9 | 1344.6 |
| 15° | 1429.2 | 1428.2 | 1432.6 | 1435.5 | 1431.6 | 1427.7 | 1421.0 | 1408.8 | 1398.6 | 1388.3 | 1356.7 |
| 17.5° | 1444.7 | 1444.3 | 1455.5 | 1463.2 | 1461.3 | 1454.5 | 1445.2 | 1431.6 | 1423.3 | 1414.6 | 1375.3 |
| 20° | 1478.8 | 1481.2 | 1494.8 | 1505.1 | 1495.3 | 1485.6 | 1470.5 | 1451.6 | 1447.2 | 1443.3 | 1394.2 |
| 22.5° | 1543.0 | 1545.4 | 1555.2 | 1559.1 | 1533.7 | 1519.7 | 1498.7 | 1474.4 | 1471.5 | 1474.4 | 1417.0 |
| 25° | 1643.2 | 1640.7 | 1639.3 | 1624.7 | 1578.5 | 1556.6 | 1529.8 | 1504.6 | 1506.0 | 1519.2 | 1449.1 |
| 27.5° | 1775.9 | 1762.7 | 1742.4 | 1698.6 | 1625.2 | 1600.8 | 1568.3 | 1545.0 | 1554.2 | 1579.4 | 1497.3 |
| 30° | 1913.5 | 1898.9 | 1851.7 | 1780.3 | 1686.4 | 1659.7 | 1623.2 | 1596.9 | 1621.3 | 1661.2 | 1561.4 |
| 32.5° | 2041.0 | 2039.0 | 1970.0 | 1878.0 | 1771.0 | 1747.7 | 1711.3 | 1681.6 | 1721.0 | 1781.8 | 1657.8 |
| 35° | 2180.0 | 2184.4 | 2101.8 | 1991.4 | 1885.3 | 1861.1 | 1834.8 | 1812.4 | 1864.9 | 1948.5 | 1797.3 |
| 37.5° | 2328.8 | 2337.5 | 2239.9 | 2115.4 | 2015.6 | 2005.5 | 1989.8 | 1980.1 | 2061.3 | 2177.1 | 1992.3 |
| 40° | 2527.7 | 2519.0 | 2383.3 | 2255.4 | 2175.6 | 2175.2 | 2170.3 | 2182.0 | 2317.2 | 2475.6 | 2242.7 |
| 42.5° | 2740.7 | 2714.9 | 2535.5 | 2405.7 | 2351.2 | 2367.7 | 2377.4 | 2425.1 | 2625.0 | 2838.5 | 2548.2 |
| 45° | 2970.2 | 2912.3 | 2693.5 | 2564.6 | 2546.2 | 2581.2 | 2614.3 | 2717.9 | 2987.2 | 3251.3 | 2882.7 |
| 47.5° | 3153.6 | 3097.6 | 2856.9 | 2731.5 | 2771.8 | 2824.9 | 2888.5 | 3052.4 | 3392.8 | 3677.8 | 3212.9 |
| 50° | 3298.0 | 3261.6 | 3021.8 | 2925.9 | 3020.4 | 3102.0 | 3206.1 | 3431.3 | 3814.9 | 4093.0 | 3518.7 |
| 52.5° | 3438.0 | 3410.8 | 3188.1 | 3125.3 | 3312.1 | 3424.9 | 3566.4 | 3837.8 | 4247.7 | 4501.6 | 3776.0 |
| 55° | 3564.5 | 3545.0 | 3367.0 | 3373.9 | 3655.4 | 3802.3 | 3980.3 | 4300.7 | 4719.4 | 4865.8 | 3993.9 |
| 57.5° | 3707.0 | 3682.2 | 3571.3 | 3685.6 | 4096.5 | 4287.1 | 4518.6 | 4821.1 | 5161.9 | 5189.6 | 4159.7 |
| 60° | 3850.4 | 3829.0 | 3797.9 | 4045.5 | 4656.7 | 4857.1 | 5076.4 | 5325.4 | 5610.8 | 5441.1 | 4150.0 |
| 62.5° | 3974.9 | 3977.3 | 4032.3 | 4423.2 | 5205.2 | 5437.2 | 5704.6 | 5950.7 | 6016.8 | 5484.9 | 3843.1 |
| 65° | 4185.9 | 4224.4 | 4388.3 | 4958.1 | 5977.4 | 6287.7 | 6615.9 | 6576.6 | 6129.1 | 5075.9 | 3185.2 |
| 67.5° | 4436.8 | 4504.5 | 4836.6 | 5671.0 | 6953.4 | 7365.3 | 7492.2 | 6718.0 | 5679.3 | 4126.2 | 2270.4 |
| 70° | 4411.6 | 4504.5 | 5030.2 | 6202.6 | 7757.8 | 8033.9 | 7648.8 | 6080.0 | 4509.8 | 2695.5 | 1206.0 |
| 72.5° | 3917.5 | 4050.3 | 4635.8 | 5959.0 | 7504.4 | 7480.0 | 6640.3 | 4532.7 | 2679.4 | 1082.5 | 471.2 |
| 75° | 2985.8 | 3120.0 | 3623.8 | 4707.7 | 5931.3 | 5727.0 | 4711.6 | 2503.9 | 1016.8 | 429.8 | 297.2 |
| 77.5° | 1717.5 | 1821.7 | 2210.7 | 2887.1 | 3762.9 | 3553.3 | 2622.5 | 1113.6 | 495.0 | 299.5 | 232.0 |
| 80° | 958.9 | 1016.8 | 1253.1 | 1464.7 | 1844.0 | 1690.3 | 1173.4 | 692.0 | 369.6 | 217.4 | 178.9 |
| 82.5° | 758.1 | 809.7 | 1013.4 | 923.9 | 842.3 | 777.1 | 674.0 | 616.1 | 295.2 | 137.2 | 107.0 |
| 85° | 662.4 | 711.5 | 857.8 | 727.5 | 575.3 | 527.6 | 547.6 | 606.4 | 229.6 | 82.7 | 91.5 |
| 87.5° | 613.7 | 679.3 | 764.5 | 560.7 | 447.8 | 396.8 | 505.2 | 664.7 | 74.0 | 51.6 | 36.9 |
| 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-SL4-800

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1452.1 | 1452.1 | 1452.1 | 1452.1 | 1452.1 | 1452.1 | 1452.1 | 1452.1 | 1452.1 | 1452.1 | 1452.1 |
| 2.5° | 1434.6 | 1426.8 | 1414.1 | 1403.0 | 1385.4 | 1376.2 | 1365.9 | 1358.7 | 1352.9 | 1347.9 | 1355.8 |
| 5° | 1390.3 | 1375.7 | 1349.0 | 1320.2 | 1286.3 | 1259.5 | 1237.2 | 1216.2 | 1201.7 | 1191.8 | 1198.7 |
| 7.5° | 1348.5 | 1324.6 | 1282.8 | 1230.8 | 1172.4 | 1122.8 | 1082.0 | 1046.0 | 1021.2 | 1005.2 | 1011.5 |
| 10° | 1324.6 | 1295.0 | 1230.3 | 1148.6 | 1062.5 | 985.2 | 921.1 | 865.6 | 827.2 | 805.3 | 808.7 |
| 12.5° | 1318.8 | 1280.4 | 1190.9 | 1078.6 | 960.9 | 853.4 | 763.0 | 686.2 | 632.2 | 604.0 | 605.0 |
| 15° | 1323.2 | 1274.1 | 1154.0 | 1011.5 | 862.7 | 727.0 | 614.2 | 520.8 | 458.1 | 426.0 | 425.5 |
| 17.5° | 1330.4 | 1269.2 | 1115.0 | 939.1 | 763.0 | 605.4 | 479.5 | 388.1 | 332.7 | 306.9 | 304.9 |
| 20° | 1338.2 | 1261.4 | 1071.3 | 860.7 | 659.4 | 492.7 | 375.4 | 303.9 | 268.9 | 254.8 | 253.8 |
| 22.5° | 1349.5 | 1254.6 | 1026.0 | 778.1 | 557.8 | 401.2 | 308.8 | 260.6 | 242.1 | 234.9 | 233.9 |
| 25° | 1367.5 | 1251.2 | 977.9 | 692.0 | 466.4 | 335.5 | 268.9 | 239.3 | 228.5 | 223.7 | 223.2 |
| 27.5° | 1397.6 | 1256.1 | 932.7 | 608.3 | 392.0 | 291.3 | 246.5 | 228.5 | 220.8 | 216.4 | 215.9 |
| 30° | 1436.5 | 1271.1 | 885.1 | 529.1 | 334.1 | 261.2 | 232.9 | 221.3 | 214.9 | 210.5 | 210.5 |
| 32.5° | 1501.2 | 1296.5 | 834.9 | 460.5 | 292.8 | 240.2 | 222.7 | 214.9 | 209.6 | 206.2 | 205.7 |
| 35° | 1596.5 | 1344.1 | 788.3 | 403.7 | 263.1 | 225.2 | 214.0 | 208.2 | 204.3 | 202.3 | 202.3 |
| 37.5° | 1735.0 | 1419.4 | 747.0 | 362.7 | 245.1 | 214.9 | 205.7 | 201.3 | 198.9 | 198.9 | 198.9 |
| 40° | 1921.3 | 1523.6 | 713.4 | 335.5 | 234.9 | 207.7 | 199.4 | 196.0 | 194.6 | 195.0 | 195.0 |
| 42.5° | 2151.4 | 1658.7 | 691.0 | 316.6 | 230.1 | 203.3 | 195.0 | 192.1 | 190.6 | 190.2 | 190.6 |
| 45° | 2413.4 | 1812.4 | 688.5 | 302.5 | 225.2 | 200.4 | 192.1 | 189.1 | 186.3 | 184.3 | 184.3 |
| 47.5° | 2668.3 | 1968.5 | 708.5 | 297.6 | 219.8 | 196.9 | 189.7 | 186.7 | 182.4 | 178.0 | 178.0 |
| 50° | 2893.4 | 2101.2 | 735.3 | 299.5 | 217.9 | 192.1 | 185.8 | 184.3 | 177.5 | 172.7 | 172.2 |
| 52.5° | 3072.3 | 2203.3 | 757.2 | 305.4 | 219.8 | 188.6 | 180.9 | 181.4 | 174.1 | 168.8 | 168.3 |
| 55° | 3215.9 | 2270.4 | 751.4 | 311.2 | 224.1 | 186.7 | 176.6 | 177.5 | 171.7 | 166.3 | 166.3 |
| 57.5° | 3278.6 | 2245.7 | 686.6 | 306.4 | 227.6 | 187.2 | 173.1 | 177.0 | 172.2 | 167.3 | 167.3 |
| 60° | 3143.8 | 2025.3 | 565.6 | 285.0 | 223.2 | 185.8 | 171.7 | 178.9 | 178.5 | 173.6 | 173.1 |
| 62.5° | 2736.3 | 1631.0 | 438.6 | 253.4 | 208.2 | 178.5 | 167.8 | 178.5 | 183.8 | 182.4 | 181.9 |
| 65° | 2109.0 | 1161.8 | 335.0 | 219.3 | 187.7 | 166.3 | 157.5 | 167.3 | 174.6 | 176.6 | 176.0 |
| 67.5° | 1368.9 | 712.0 | 258.2 | 187.2 | 164.9 | 152.2 | 144.4 | 148.8 | 150.3 | 150.3 | 149.2 |
| 70° | 673.0 | 383.2 | 205.7 | 157.5 | 141.5 | 137.2 | 132.8 | 130.3 | 127.9 | 125.9 | 125.9 |
| 72.5° | 332.2 | 250.4 | 169.2 | 133.3 | 122.0 | 120.1 | 119.2 | 116.2 | 114.3 | 111.8 | 110.9 |
| 75° | 245.6 | 203.8 | 143.9 | 112.3 | 105.1 | 103.1 | 105.1 | 102.6 | 102.1 | 100.1 | 99.2 |
| 77.5° | 201.8 | 173.6 | 124.0 | 96.3 | 89.9 | 86.5 | 89.5 | 89.9 | 90.4 | 87.6 | 86.5 |
| 80° | 163.9 | 146.9 | 103.6 | 79.8 | 74.0 | 71.5 | 73.4 | 77.3 | 78.3 | 74.0 | 72.0 |
| 82.5° | 118.2 | 120.1 | 83.7 | 62.2 | 57.4 | 55.4 | 59.3 | 64.1 | 65.2 | 58.8 | 57.4 |
| 85° | 99.2 | 100.1 | 64.1 | 44.3 | 39.4 | 36.5 | 42.8 | 47.7 | 51.0 | 44.7 | 43.3 |
| 87.5° | 41.3 | 58.8 | 36.9 | 24.8 | 21.9 | 18.9 | 22.8 | 25.3 | 30.6 | 28.2 | 27.7 |
| 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)