

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: P192160

Luminaire Tested: **GAN-AF-02-LED-U-T2-7050-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-7050-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9656 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full 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

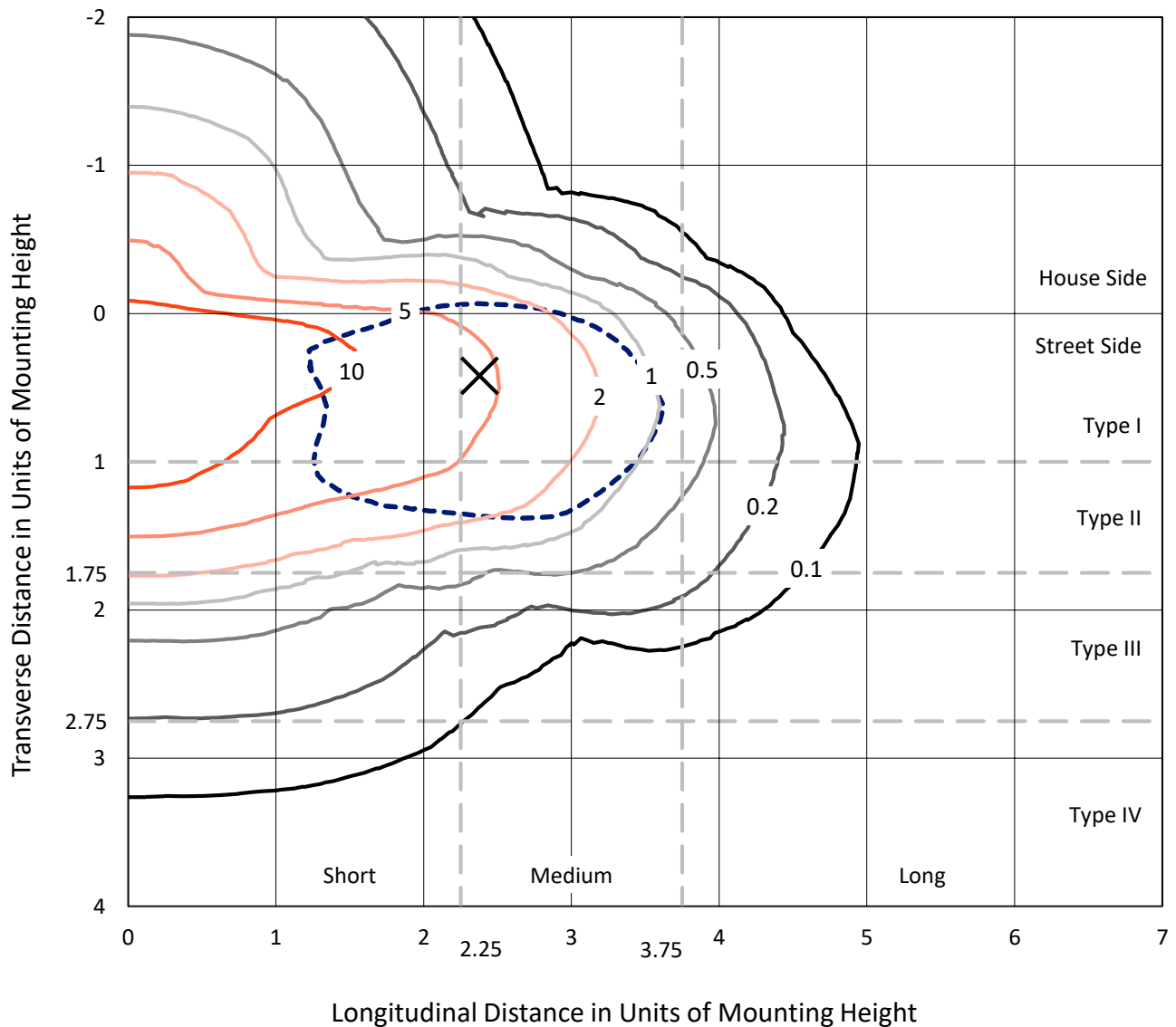


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

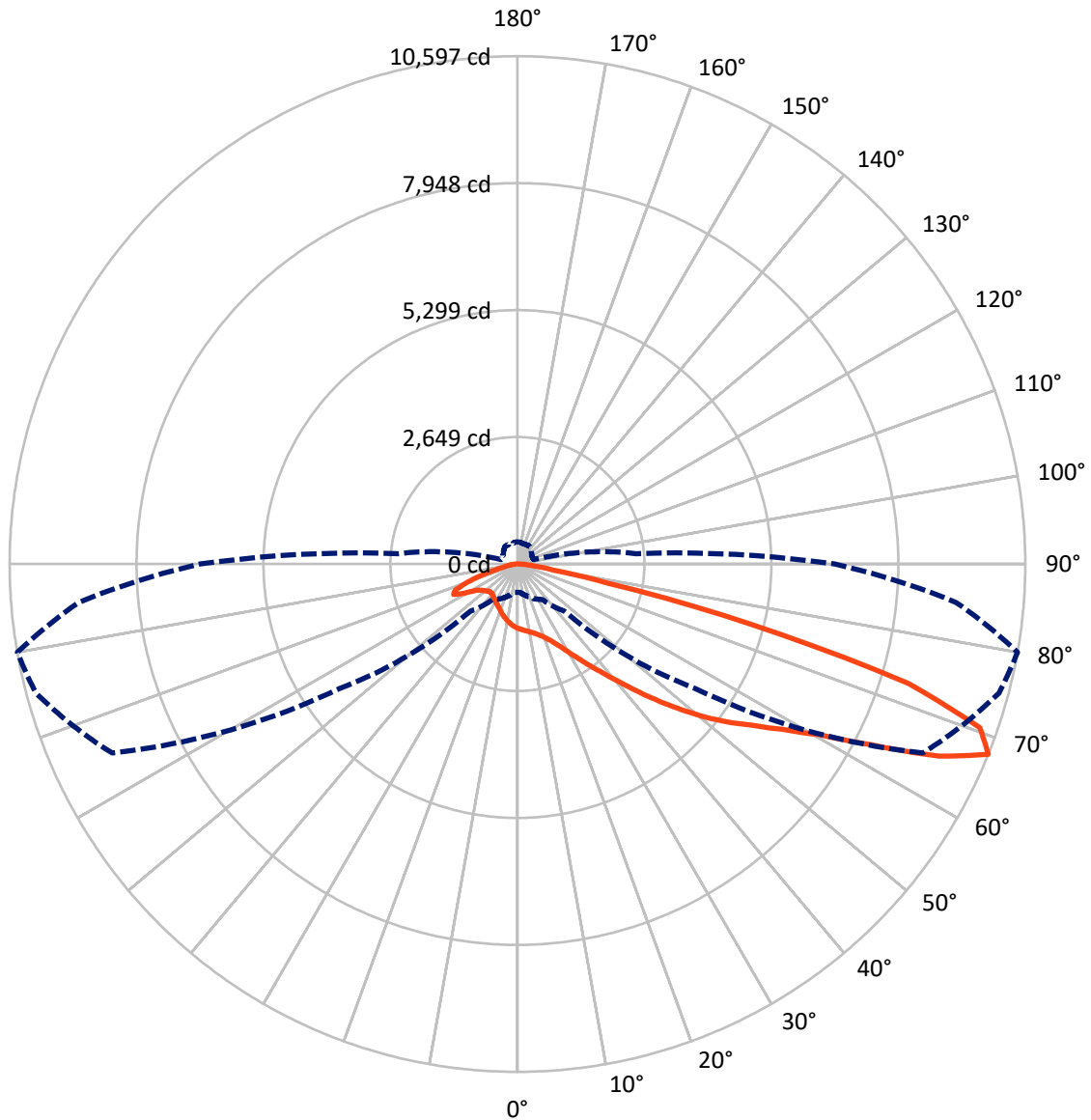


Based on 10 foot mounting height. Maximum calculated value = 16.3 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1778.3 | 0.0 | 1778.3 |
| | % Fixture | 18.4 | 0.0 | 18.4 |
| Street Side | Lumens | 7877.7 | 0.0 | 7877.7 |
| | % Fixture | 81.6 | 0.0 | 81.6 |
| Total | Lumens | 9656.0 | 0.0 | 9656.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 123.7 | 1.3 |
| 10°-20° | 356.5 | 3.7 |
| 20°-30° | 590.1 | 6.1 |
| 30°-40° | 965.2 | 10.0 |
| 40°-50° | 1558.4 | 16.1 |
| 50°-60° | 2249.8 | 23.3 |
| 60°-70° | 2482.8 | 25.7 |
| 70°-80° | 1144.4 | 11.9 |
| 80°-90° | 185.1 | 1.9 |
| 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° | 9656.0 | 100.0 |
| 0°-180° | 9656.0 | 100.0 |

Coefficient of Utilization



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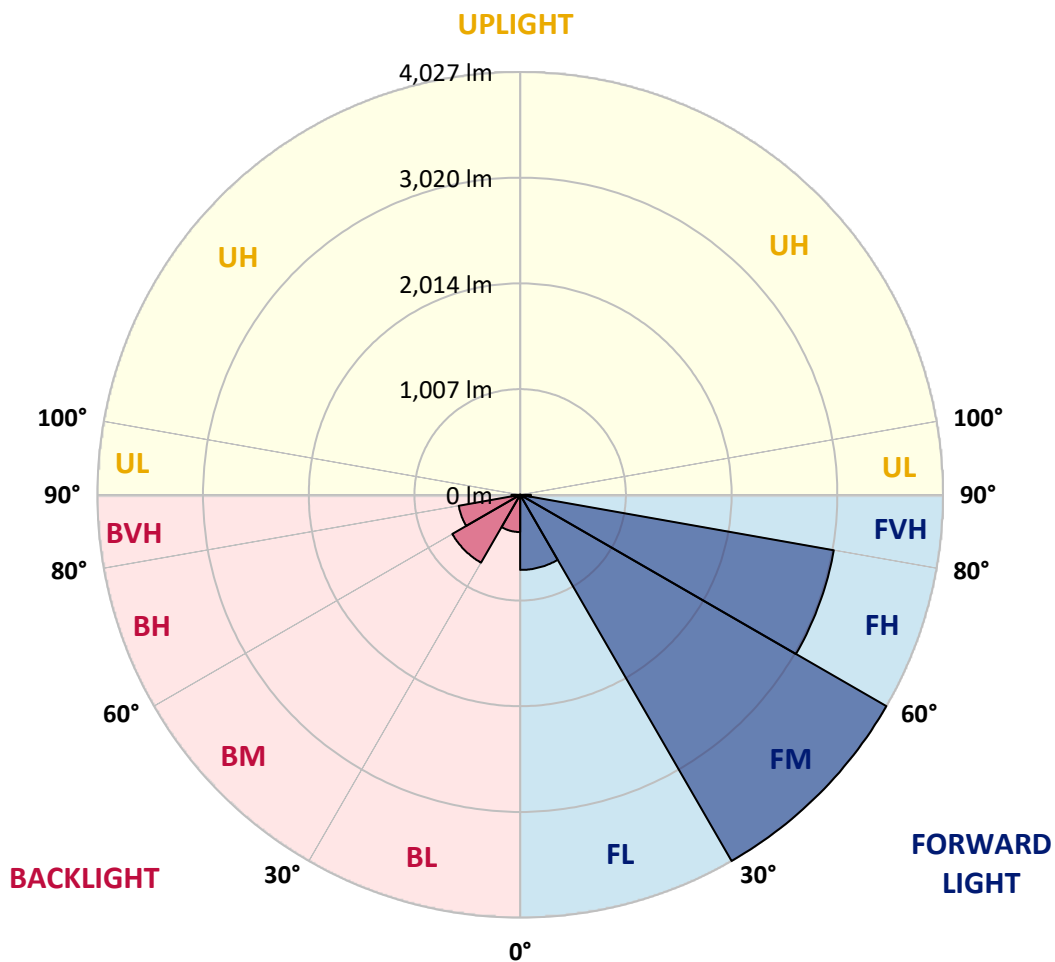
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 715.5 | 7.4 | | | |
| FM | (30°-60°) | 4027.3 | 41.7 | | | |
| FH | (60°-80°) | 3033.2 | 31.4 | | | G2/5000 |
| FVH | (80°-90°) | 101.8 | 1.1 | | | G2/225 |
| BL | (0°-30°) | 354.8 | 3.7 | B1/500 | | |
| BM | (30°-60°) | 746.1 | 7.7 | B1/1000 | | |
| BH | (60°-80°) | 594.0 | 6.2 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 83.3 | 0.9 | | | 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 80° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0° | 1341.5 | 1341.5 | 1341.5 | 1341.5 | 1341.5 | 1341.5 | 1341.5 | 1341.5 | 1341.5 | 1341.5 | 1341.5 |
| 2.5° | 1467.5 | 1458.9 | 1460.3 | 1458.0 | 1450.8 | 1438.5 | 1425.2 | 1400.9 | 1375.7 | 1362.4 | 1352.0 |
| 5° | 1590.1 | 1587.7 | 1584.4 | 1576.8 | 1558.7 | 1533.1 | 1501.2 | 1458.4 | 1412.3 | 1388.1 | 1364.8 |
| 7.5° | 1681.9 | 1680.4 | 1676.2 | 1671.4 | 1653.8 | 1622.9 | 1574.9 | 1514.1 | 1447.0 | 1413.8 | 1377.6 |
| 10° | 1689.5 | 1691.8 | 1695.2 | 1708.0 | 1710.4 | 1693.7 | 1644.8 | 1571.1 | 1483.2 | 1440.4 | 1394.3 |
| 12.5° | 1624.8 | 1630.0 | 1642.9 | 1675.7 | 1710.4 | 1730.8 | 1705.6 | 1631.0 | 1525.5 | 1473.7 | 1415.2 |
| 15° | 1539.3 | 1542.1 | 1557.8 | 1603.0 | 1665.2 | 1728.5 | 1752.2 | 1697.1 | 1580.1 | 1516.4 | 1446.6 |
| 17.5° | 1502.7 | 1504.1 | 1515.0 | 1545.0 | 1603.0 | 1693.3 | 1778.4 | 1768.9 | 1647.2 | 1569.7 | 1485.1 |
| 20° | 1484.1 | 1487.4 | 1503.1 | 1532.6 | 1569.2 | 1648.1 | 1782.2 | 1846.3 | 1727.0 | 1636.2 | 1533.5 |
| 22.5° | 1536.9 | 1535.5 | 1541.2 | 1555.9 | 1586.8 | 1634.3 | 1779.3 | 1926.2 | 1828.8 | 1721.8 | 1596.8 |
| 25° | 1660.0 | 1665.2 | 1655.2 | 1638.6 | 1648.6 | 1681.9 | 1794.5 | 2012.7 | 1956.2 | 1831.6 | 1679.5 |
| 27.5° | 1835.4 | 1830.2 | 1815.4 | 1776.5 | 1756.0 | 1770.3 | 1844.9 | 2105.9 | 2114.5 | 1976.1 | 1788.8 |
| 30° | 2010.3 | 2006.1 | 1991.8 | 1944.3 | 1902.4 | 1890.6 | 1942.8 | 2212.9 | 2303.2 | 2149.6 | 1922.9 |
| 32.5° | 2191.9 | 2187.2 | 2173.9 | 2126.3 | 2075.9 | 2048.4 | 2082.1 | 2336.5 | 2525.7 | 2356.9 | 2080.7 |
| 35° | 2415.8 | 2406.8 | 2378.8 | 2312.7 | 2263.2 | 2241.9 | 2257.5 | 2491.9 | 2782.4 | 2602.2 | 2272.3 |
| 37.5° | 2626.4 | 2640.2 | 2611.7 | 2520.4 | 2456.2 | 2448.6 | 2466.2 | 2681.6 | 3059.0 | 2876.5 | 2492.4 |
| 40° | 2838.0 | 2840.3 | 2814.7 | 2740.0 | 2674.0 | 2661.6 | 2705.8 | 2911.7 | 3385.6 | 3204.5 | 2760.0 |
| 42.5° | 3056.6 | 3061.4 | 3018.1 | 2949.2 | 2900.7 | 2903.1 | 2953.5 | 3181.2 | 3760.2 | 3591.0 | 3068.0 |
| 45° | 3315.7 | 3322.8 | 3275.3 | 3185.0 | 3140.8 | 3229.7 | 3208.8 | 3483.5 | 4170.9 | 4030.2 | 3421.7 |
| 47.5° | 3586.7 | 3597.6 | 3561.5 | 3476.9 | 3421.7 | 3543.9 | 3464.0 | 3818.7 | 4613.0 | 4501.3 | 3810.1 |
| 50° | 3734.5 | 3750.2 | 3785.4 | 3779.2 | 3767.3 | 3746.9 | 3748.8 | 4178.0 | 5068.9 | 4991.9 | 4209.4 |
| 52.5° | 3655.1 | 3654.7 | 3783.0 | 3938.9 | 4105.3 | 4117.7 | 4095.8 | 4556.9 | 5494.8 | 5471.5 | 4585.4 |
| 55° | 3291.9 | 3316.7 | 3511.1 | 3813.0 | 4267.4 | 4551.2 | 4615.9 | 4990.9 | 5913.1 | 5940.2 | 4967.2 |
| 57.5° | 2687.3 | 2707.7 | 2970.1 | 3390.8 | 4048.7 | 4808.9 | 5355.5 | 5621.7 | 6380.9 | 6507.4 | 5475.3 |
| 60° | 1822.6 | 1847.3 | 2125.4 | 2630.7 | 3460.2 | 4665.3 | 6059.6 | 6747.4 | 6940.9 | 7228.5 | 6188.4 |
| 62.5° | 1071.0 | 1093.4 | 1320.1 | 1659.5 | 2436.3 | 3998.4 | 6368.6 | 8349.0 | 7830.3 | 8316.6 | 7276.0 |
| 65° | 737.3 | 752.5 | 862.8 | 1033.0 | 1400.0 | 2693.0 | 5985.4 | 9454.7 | 9198.9 | 9664.8 | 8537.2 |
| 67.5° | 593.3 | 591.4 | 678.8 | 794.8 | 901.3 | 1388.6 | 4526.0 | 9329.6 | 10402.6 | 10597.0 | 9191.8 |
| 70° | 488.7 | 486.8 | 546.2 | 642.2 | 720.2 | 782.0 | 2465.3 | 7873.1 | 10157.3 | 10236.2 | 8589.0 |
| 72.5° | 408.8 | 410.7 | 448.8 | 520.1 | 590.9 | 589.0 | 1083.4 | 5538.6 | 7990.5 | 8536.3 | 6846.8 |
| 75° | 345.1 | 346.1 | 371.3 | 421.7 | 479.7 | 474.4 | 587.6 | 3000.5 | 4644.9 | 5024.7 | 3795.4 |
| 77.5° | 293.8 | 294.7 | 310.9 | 338.9 | 380.3 | 378.4 | 428.8 | 1296.3 | 1937.6 | 1913.8 | 1298.2 |
| 80° | 261.9 | 261.9 | 269.5 | 274.8 | 297.6 | 289.0 | 318.0 | 622.7 | 819.1 | 756.3 | 518.2 |
| 82.5° | 205.4 | 206.3 | 252.9 | 251.0 | 234.4 | 223.4 | 223.4 | 367.0 | 434.0 | 401.2 | 303.3 |
| 85° | 115.5 | 115.0 | 163.1 | 196.8 | 206.3 | 157.3 | 155.9 | 205.4 | 236.3 | 208.2 | 146.9 |
| 87.5° | 49.4 | 50.4 | 75.6 | 87.5 | 116.9 | 97.9 | 96.5 | 106.0 | 120.3 | 104.1 | 68.0 |
| 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-T2-7050-800-ADJ

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1341.5 | 1341.5 | 1341.5 | 1341.5 | 1341.5 | 1341.5 | 1341.5 | 1341.5 | 1341.5 | 1341.5 | 1341.5 |
| 2.5° | 1342.0 | 1329.6 | 1302.5 | 1268.8 | 1238.3 | 1218.4 | 1200.3 | 1174.2 | 1175.6 | 1157.5 | 1144.2 |
| 5° | 1341.0 | 1315.4 | 1252.6 | 1178.0 | 1106.2 | 1054.4 | 1015.4 | 980.2 | 971.7 | 955.0 | 945.0 |
| 7.5° | 1342.0 | 1300.1 | 1194.6 | 1075.3 | 986.4 | 920.8 | 887.5 | 869.0 | 864.7 | 859.0 | 859.5 |
| 10° | 1345.3 | 1286.4 | 1130.9 | 979.3 | 886.1 | 842.8 | 834.8 | 840.5 | 847.1 | 849.0 | 849.5 |
| 12.5° | 1352.9 | 1274.0 | 1061.0 | 893.7 | 823.3 | 810.0 | 823.8 | 843.3 | 856.1 | 862.3 | 861.8 |
| 15° | 1370.0 | 1264.5 | 994.0 | 826.7 | 788.6 | 795.8 | 821.4 | 849.0 | 867.6 | 876.1 | 876.6 |
| 17.5° | 1388.6 | 1250.7 | 925.1 | 775.3 | 763.0 | 781.0 | 812.9 | 845.2 | 868.0 | 877.5 | 879.4 |
| 20° | 1412.8 | 1233.6 | 852.8 | 736.8 | 738.7 | 759.2 | 789.1 | 821.4 | 846.6 | 854.7 | 858.5 |
| 22.5° | 1444.7 | 1215.1 | 789.6 | 705.5 | 711.2 | 726.8 | 750.1 | 778.2 | 800.1 | 803.9 | 807.2 |
| 25° | 1487.4 | 1195.1 | 739.2 | 676.9 | 679.3 | 688.3 | 704.0 | 720.7 | 735.9 | 731.6 | 734.9 |
| 27.5° | 1545.0 | 1178.0 | 701.6 | 650.8 | 646.5 | 648.4 | 656.5 | 661.7 | 669.8 | 657.9 | 659.3 |
| 30° | 1612.5 | 1159.4 | 672.7 | 628.0 | 616.1 | 612.8 | 614.7 | 617.5 | 623.7 | 607.5 | 605.1 |
| 32.5° | 1690.9 | 1137.1 | 645.6 | 608.0 | 591.4 | 584.7 | 585.7 | 593.3 | 617.0 | 607.0 | 601.8 |
| 35° | 1782.2 | 1111.9 | 617.0 | 586.1 | 574.7 | 565.2 | 564.3 | 588.0 | 658.9 | 652.7 | 647.9 |
| 37.5° | 1889.1 | 1086.7 | 588.5 | 561.4 | 562.4 | 551.9 | 548.6 | 575.7 | 666.9 | 642.7 | 639.4 |
| 40° | 2025.1 | 1073.4 | 564.3 | 535.3 | 547.2 | 545.7 | 539.1 | 552.9 | 613.7 | 569.5 | 563.8 |
| 42.5° | 2193.4 | 1075.3 | 546.2 | 507.2 | 529.1 | 544.3 | 533.8 | 534.3 | 556.2 | 522.9 | 517.7 |
| 45° | 2401.1 | 1097.6 | 533.4 | 484.9 | 508.6 | 542.9 | 531.9 | 524.3 | 526.2 | 508.6 | 505.8 |
| 47.5° | 2643.5 | 1143.7 | 524.3 | 466.3 | 489.2 | 537.6 | 531.5 | 521.5 | 517.2 | 507.7 | 505.3 |
| 50° | 2913.1 | 1210.8 | 517.7 | 448.8 | 471.6 | 529.1 | 531.9 | 518.6 | 513.9 | 510.1 | 508.6 |
| 52.5° | 3177.9 | 1287.3 | 507.7 | 433.5 | 457.8 | 518.6 | 533.4 | 515.8 | 510.5 | 507.7 | 506.3 |
| 55° | 3473.1 | 1382.9 | 492.5 | 420.7 | 446.4 | 505.3 | 533.4 | 511.5 | 505.8 | 506.3 | 505.8 |
| 57.5° | 3871.9 | 1537.4 | 474.4 | 409.8 | 432.6 | 489.2 | 524.3 | 506.7 | 499.6 | 500.1 | 500.6 |
| 60° | 4495.1 | 1809.7 | 452.6 | 398.8 | 415.5 | 470.1 | 512.0 | 496.3 | 489.2 | 491.1 | 491.5 |
| 62.5° | 5411.6 | 2209.5 | 424.0 | 382.7 | 397.4 | 449.7 | 494.9 | 483.0 | 475.8 | 480.6 | 480.6 |
| 65° | 6364.3 | 2562.3 | 388.9 | 362.2 | 378.4 | 427.4 | 473.5 | 466.3 | 459.2 | 470.1 | 469.7 |
| 67.5° | 6620.5 | 2483.3 | 353.7 | 339.9 | 359.4 | 402.6 | 447.8 | 444.0 | 440.2 | 459.2 | 458.3 |
| 70° | 5881.3 | 1993.7 | 321.4 | 317.1 | 338.5 | 376.0 | 420.2 | 420.2 | 417.9 | 432.1 | 428.8 |
| 72.5° | 4480.9 | 1413.8 | 290.5 | 292.8 | 314.7 | 347.0 | 390.3 | 393.6 | 389.8 | 396.9 | 394.1 |
| 75° | 2398.7 | 809.1 | 259.6 | 266.2 | 285.2 | 317.5 | 357.0 | 360.3 | 358.0 | 357.5 | 358.9 |
| 77.5° | 797.2 | 395.5 | 227.2 | 237.7 | 254.3 | 287.1 | 322.3 | 327.5 | 321.8 | 320.9 | 320.4 |
| 80° | 355.1 | 248.6 | 191.6 | 205.4 | 220.1 | 252.4 | 285.7 | 290.0 | 283.8 | 292.4 | 281.4 |
| 82.5° | 228.2 | 163.5 | 153.5 | 168.8 | 183.0 | 217.7 | 249.1 | 250.0 | 244.3 | 283.8 | 242.0 |
| 85° | 110.8 | 101.3 | 115.5 | 129.3 | 141.7 | 171.1 | 206.3 | 206.8 | 192.5 | 175.4 | 169.2 |
| 87.5° | 55.1 | 58.9 | 77.0 | 89.4 | 95.5 | 117.4 | 150.2 | 147.4 | 141.2 | 128.4 | 118.4 |
| 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)