

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: P192380

Luminaire Tested: **GAN-AF-02-LED-U-T4W-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13267 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

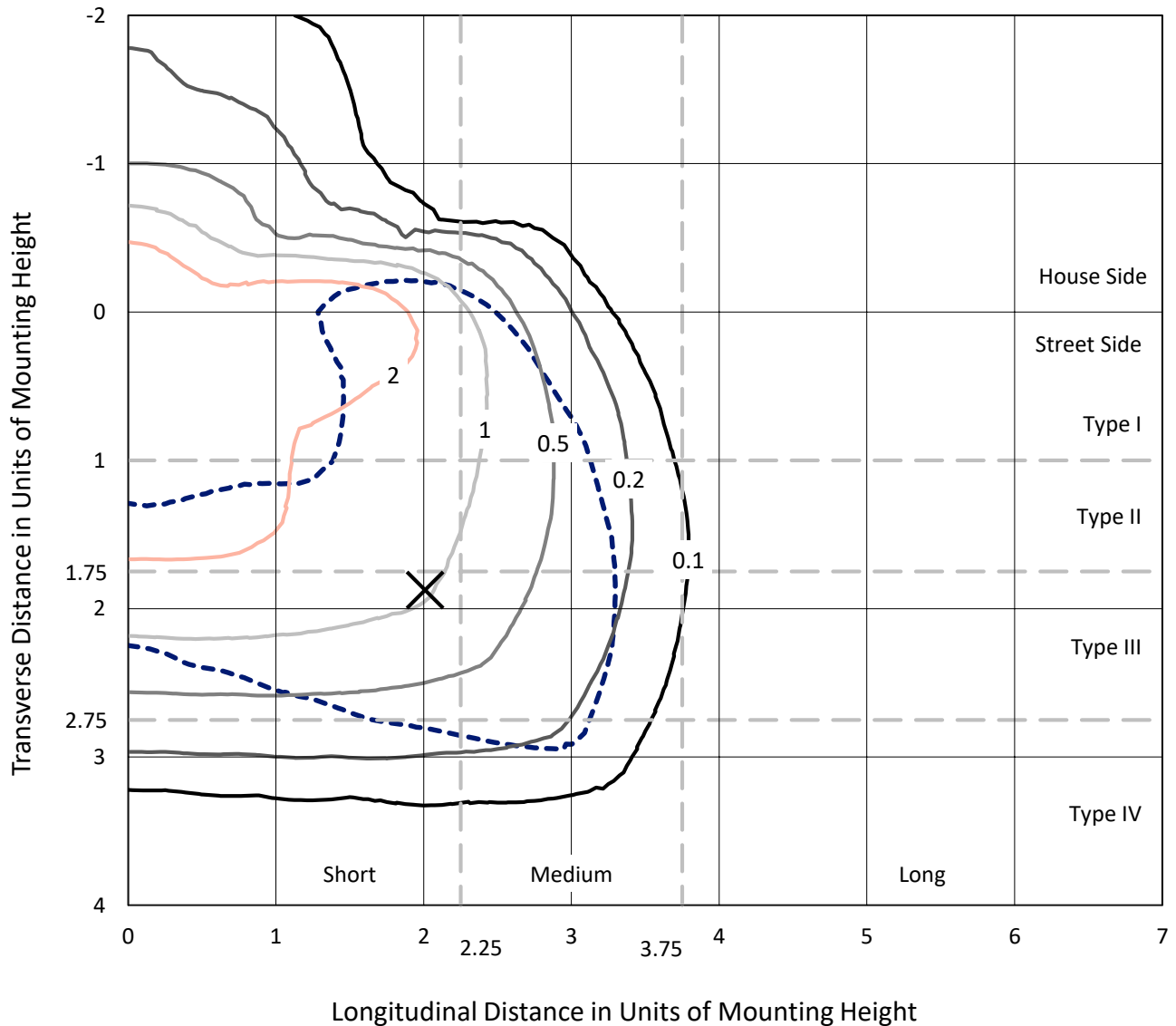
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P192380
 CATALOG NUMBER: GAN-AF-02-LED-U-T4W-7050-1200

Iso-Footcandle Lines of Horizontal Illumination

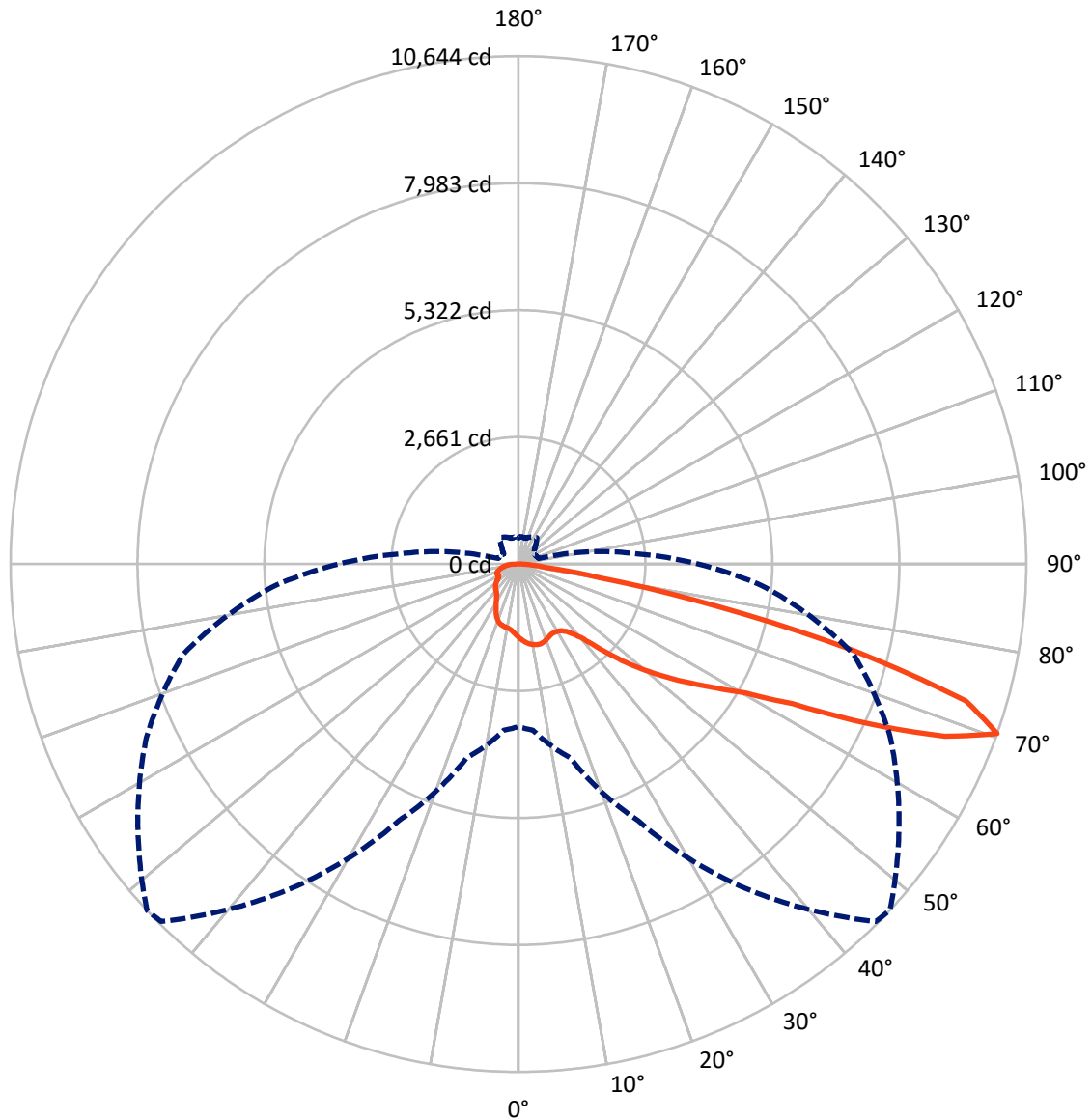
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P192380
CATALOG NUMBER: GAN-AF-02-LED-U-T4W-7050-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P192380

CATALOG NUMBER: GAN-AF-02-LED-U-T4W-7050-1200

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2767.8 | 0.0 | 2767.8 |
| | % Fixture | 20.9 | 0.0 | 20.9 |
| Street Side | Lumens | 10499.2 | 0.0 | 10499.2 |
| | % Fixture | 79.1 | 0.0 | 79.1 |
| Total | Lumens | 13267.0 | 0.0 | 13267.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 147.5 | 1.1 |
| 10°-20° | 432.7 | 3.3 |
| 20°-30° | 639.0 | 4.8 |
| 30°-40° | 928.8 | 7.0 |
| 40°-50° | 1671.5 | 12.6 |
| 50°-60° | 2895.7 | 21.8 |
| 60°-70° | 4133.0 | 31.2 |
| 70°-80° | 2121.7 | 16.0 |
| 80°-90° | 297.0 | 2.2 |
| 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° | 13267.0 | 100.0 |
| 0°-180° | 13267.0 | 100.0 |



REPORT NUMBER: P192380

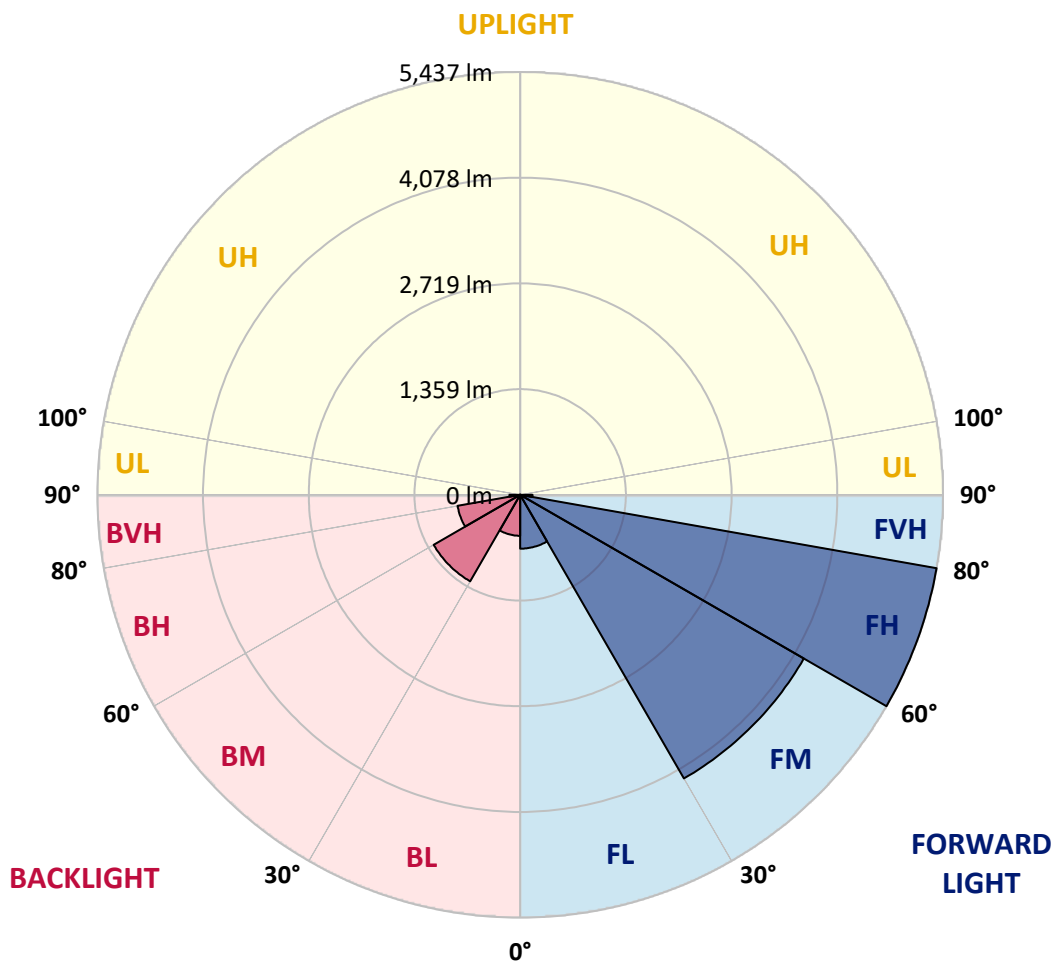
CATALOG NUMBER: GAN-AF-02-LED-U-T4W-7050-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 692.2 | 5.2 | | | |
| FM | (30°-60°) | 4211.3 | 31.7 | | | |
| FH | (60°-80°) | 5437.2 | 41.0 | | | G3/7500 |
| FVH | (80°-90°) | 158.5 | 1.2 | | | G2/225 |
| BL | (0°-30°) | 527.0 | 4.0 | B2/1000 | | |
| BM | (30°-60°) | 1284.7 | 9.7 | B2/2500 | | |
| BH | (60°-80°) | 817.5 | 6.2 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 138.5 | 1.0 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P192380

CATALOG NUMBER: GAN-AF-02-LED-U-T4W-7050-1200

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|
| 0° | 1539.4 | 1539.4 | 1539.4 | 1539.4 | 1539.4 | 1539.4 | 1539.4 | 1539.4 | 1539.4 | 1539.4 | 1539.4 |
| 2.5° | 1629.7 | 1626.5 | 1625.2 | 1622.6 | 1619.4 | 1603.3 | 1600.1 | 1588.4 | 1572.3 | 1555.5 | 1538.1 |
| 5° | 1736.9 | 1736.2 | 1729.1 | 1716.2 | 1695.6 | 1660.1 | 1651.7 | 1623.3 | 1585.2 | 1548.4 | 1511.6 |
| 7.5° | 1831.1 | 1825.3 | 1811.8 | 1785.9 | 1749.8 | 1701.4 | 1689.8 | 1650.4 | 1598.1 | 1547.8 | 1498.1 |
| 10° | 1900.2 | 1897.0 | 1867.3 | 1831.8 | 1784.7 | 1731.1 | 1717.5 | 1673.6 | 1616.2 | 1552.3 | 1490.3 |
| 12.5° | 1939.6 | 1933.1 | 1898.9 | 1856.3 | 1800.1 | 1747.9 | 1734.3 | 1689.8 | 1625.2 | 1552.3 | 1479.4 |
| 15° | 1937.0 | 1932.5 | 1898.3 | 1851.8 | 1795.0 | 1749.2 | 1736.9 | 1692.4 | 1623.3 | 1545.8 | 1465.2 |
| 17.5° | 1885.3 | 1887.3 | 1858.2 | 1812.4 | 1765.9 | 1731.1 | 1720.1 | 1678.8 | 1610.4 | 1532.9 | 1448.4 |
| 20° | 1795.0 | 1804.0 | 1784.7 | 1744.0 | 1718.2 | 1694.3 | 1687.2 | 1652.3 | 1590.4 | 1514.2 | 1430.3 |
| 22.5° | 1704.6 | 1713.0 | 1705.3 | 1671.1 | 1667.2 | 1653.0 | 1649.1 | 1623.9 | 1572.9 | 1502.6 | 1419.3 |
| 25° | 1638.1 | 1645.9 | 1644.6 | 1614.9 | 1626.5 | 1625.9 | 1622.6 | 1610.4 | 1569.1 | 1502.6 | 1421.3 |
| 27.5° | 1620.1 | 1622.6 | 1620.1 | 1593.0 | 1609.1 | 1622.0 | 1619.4 | 1617.5 | 1580.7 | 1521.3 | 1445.8 |
| 30° | 1682.0 | 1678.2 | 1658.1 | 1603.3 | 1618.1 | 1636.2 | 1633.6 | 1634.9 | 1615.5 | 1570.4 | 1500.7 |
| 32.5° | 1929.2 | 1911.8 | 1848.6 | 1694.3 | 1654.9 | 1664.6 | 1665.9 | 1687.2 | 1690.4 | 1645.9 | 1585.9 |
| 35° | 2299.1 | 2279.7 | 2197.7 | 1938.3 | 1769.2 | 1735.6 | 1735.6 | 1767.9 | 1787.2 | 1754.3 | 1718.2 |
| 37.5° | 2690.9 | 2669.6 | 2625.7 | 2276.5 | 2009.3 | 1858.9 | 1855.7 | 1878.2 | 1906.0 | 1913.7 | 1922.8 |
| 40° | 3136.2 | 3113.6 | 3125.9 | 2656.0 | 2344.3 | 2072.5 | 2026.7 | 2010.6 | 2085.4 | 2135.1 | 2207.4 |
| 42.5° | 3623.5 | 3613.2 | 3617.7 | 3078.8 | 2725.7 | 2392.0 | 2326.8 | 2243.6 | 2333.9 | 2422.4 | 2574.0 |
| 45° | 4074.7 | 4083.7 | 4079.2 | 3531.2 | 3150.4 | 2781.9 | 2712.8 | 2551.4 | 2639.9 | 2791.5 | 3038.8 |
| 47.5° | 4469.7 | 4432.3 | 4490.4 | 4025.6 | 3626.1 | 3218.2 | 3133.0 | 2916.8 | 3006.5 | 3193.7 | 3611.9 |
| 50° | 4949.3 | 4944.1 | 4858.9 | 4685.3 | 4201.2 | 3656.4 | 3544.8 | 3294.3 | 3433.8 | 3693.9 | 4334.2 |
| 52.5° | 5453.4 | 5359.8 | 5281.7 | 5198.4 | 4811.1 | 4105.7 | 3968.8 | 3670.6 | 3935.9 | 4263.2 | 5214.5 |
| 55° | 5556.6 | 5514.7 | 5611.5 | 5751.6 | 5399.1 | 4572.3 | 4412.9 | 4142.5 | 4501.3 | 4913.8 | 6229.8 |
| 57.5° | 5777.4 | 5776.7 | 5976.8 | 6226.6 | 6004.6 | 5067.4 | 4906.7 | 4712.4 | 5137.1 | 5659.3 | 7307.7 |
| 60° | 5926.5 | 5968.4 | 6340.2 | 6824.9 | 6599.0 | 5639.2 | 5491.4 | 5370.1 | 5860.0 | 6492.5 | 8312.0 |
| 62.5° | 6004.6 | 6061.4 | 6568.7 | 7067.6 | 7439.4 | 6591.3 | 6443.5 | 6268.6 | 6816.5 | 7406.5 | 8899.4 |
| 65° | 5679.9 | 5791.6 | 6533.2 | 7277.4 | 8175.2 | 8134.5 | 8068.1 | 7760.8 | 8012.5 | 8128.7 | 8687.0 |
| 67.5° | 4781.5 | 4895.7 | 5759.3 | 7081.8 | 8700.6 | 9622.9 | 9637.1 | 9112.4 | 8748.4 | 8190.7 | 7303.8 |
| 70° | 3406.7 | 3496.4 | 4210.9 | 5937.4 | 8300.4 | 10595.6 | 10644.0 | 9735.2 | 8601.8 | 7263.8 | 5102.9 |
| 72.5° | 1617.5 | 1672.3 | 2348.8 | 3864.3 | 6586.8 | 9708.1 | 9801.7 | 8940.1 | 7314.2 | 5377.8 | 2783.8 |
| 75° | 594.5 | 611.2 | 793.9 | 1643.9 | 3820.4 | 7159.3 | 7269.6 | 6408.6 | 4848.6 | 2677.3 | 1060.5 |
| 77.5° | 356.3 | 367.3 | 445.4 | 693.9 | 1502.6 | 4092.1 | 4255.4 | 3485.4 | 2119.0 | 996.6 | 521.5 |
| 80° | 249.1 | 256.9 | 319.5 | 431.8 | 710.0 | 1559.4 | 1704.6 | 1422.6 | 844.2 | 630.6 | 379.5 |
| 82.5° | 168.5 | 172.3 | 224.6 | 291.7 | 471.8 | 557.0 | 600.9 | 632.5 | 569.3 | 469.2 | 240.8 |
| 85° | 110.4 | 114.2 | 152.3 | 192.3 | 300.1 | 287.9 | 294.3 | 372.4 | 415.7 | 318.8 | 133.6 |
| 87.5° | 63.3 | 65.8 | 91.7 | 102.6 | 147.2 | 122.0 | 123.3 | 196.2 | 265.9 | 214.9 | 81.3 |
| 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: P192380

CATALOG NUMBER: GAN-AF-02-LED-U-T4W-7050-1200

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1539.4 | 1539.4 | 1539.4 | 1539.4 | 1539.4 | 1539.4 | 1539.4 | 1539.4 | 1539.4 | 1539.4 | 1539.4 |
| 2.5° | 1533.6 | 1525.2 | 1506.5 | 1494.8 | 1483.9 | 1481.3 | 1476.8 | 1476.1 | 1475.5 | 1475.5 | 1473.5 |
| 5° | 1499.4 | 1485.2 | 1456.1 | 1440.0 | 1426.4 | 1425.1 | 1424.5 | 1427.7 | 1429.0 | 1430.3 | 1428.4 |
| 7.5° | 1477.4 | 1458.1 | 1421.9 | 1398.7 | 1382.5 | 1378.7 | 1385.1 | 1400.0 | 1409.7 | 1413.5 | 1411.6 |
| 10° | 1463.9 | 1440.0 | 1398.0 | 1372.9 | 1359.3 | 1357.4 | 1365.8 | 1383.2 | 1403.2 | 1410.9 | 1410.3 |
| 12.5° | 1448.4 | 1421.3 | 1376.7 | 1350.3 | 1342.5 | 1346.4 | 1357.4 | 1373.5 | 1394.2 | 1406.4 | 1407.1 |
| 15° | 1432.9 | 1401.3 | 1355.4 | 1332.2 | 1329.0 | 1334.1 | 1344.5 | 1356.7 | 1372.9 | 1385.1 | 1386.4 |
| 17.5° | 1414.2 | 1381.3 | 1335.4 | 1311.5 | 1309.0 | 1311.5 | 1312.2 | 1318.6 | 1329.0 | 1340.6 | 1343.8 |
| 20° | 1394.2 | 1360.6 | 1312.8 | 1289.0 | 1277.3 | 1267.0 | 1255.4 | 1256.7 | 1259.9 | 1271.5 | 1274.1 |
| 22.5° | 1380.0 | 1346.4 | 1295.4 | 1262.5 | 1231.5 | 1200.5 | 1177.3 | 1174.1 | 1175.4 | 1185.0 | 1188.3 |
| 25° | 1381.3 | 1345.8 | 1290.9 | 1234.1 | 1166.3 | 1116.6 | 1085.6 | 1080.5 | 1079.8 | 1086.9 | 1091.4 |
| 27.5° | 1406.4 | 1370.9 | 1307.7 | 1205.0 | 1095.3 | 1021.7 | 988.8 | 984.9 | 979.8 | 981.7 | 986.9 |
| 30° | 1462.6 | 1429.7 | 1348.3 | 1175.4 | 1018.5 | 928.8 | 894.6 | 890.7 | 883.6 | 880.4 | 884.3 |
| 32.5° | 1554.2 | 1527.1 | 1407.7 | 1147.0 | 941.7 | 849.4 | 814.6 | 806.2 | 801.6 | 797.8 | 801.0 |
| 35° | 1706.6 | 1694.9 | 1487.1 | 1116.0 | 873.9 | 788.1 | 756.5 | 743.6 | 737.1 | 744.2 | 749.4 |
| 37.5° | 1945.4 | 1951.8 | 1591.0 | 1067.6 | 821.7 | 747.4 | 721.0 | 706.1 | 696.4 | 702.2 | 708.1 |
| 40° | 2283.6 | 2288.1 | 1705.9 | 999.1 | 776.5 | 723.5 | 695.1 | 681.6 | 668.0 | 657.7 | 657.1 |
| 42.5° | 2727.6 | 2681.8 | 1818.9 | 924.9 | 724.2 | 708.7 | 677.1 | 660.3 | 639.6 | 611.2 | 605.4 |
| 45° | 3254.3 | 3093.6 | 1904.7 | 839.7 | 665.5 | 690.6 | 657.1 | 633.8 | 601.6 | 570.6 | 567.3 |
| 47.5° | 3861.0 | 3535.7 | 1946.7 | 751.3 | 610.6 | 664.2 | 632.5 | 595.7 | 555.1 | 539.6 | 537.7 |
| 50° | 4602.0 | 4060.5 | 1966.7 | 665.5 | 562.8 | 629.3 | 597.0 | 553.8 | 519.6 | 516.4 | 514.4 |
| 52.5° | 5445.6 | 4691.7 | 1973.1 | 595.1 | 523.5 | 584.1 | 568.0 | 526.0 | 498.9 | 501.5 | 501.5 |
| 55° | 6328.6 | 5343.6 | 1885.3 | 544.1 | 487.3 | 537.7 | 548.6 | 515.1 | 492.5 | 502.8 | 506.7 |
| 57.5° | 7139.3 | 5921.3 | 1609.1 | 504.7 | 453.1 | 502.2 | 541.5 | 525.4 | 509.9 | 551.9 | 554.4 |
| 60° | 7761.5 | 6262.7 | 1201.8 | 469.2 | 427.9 | 489.9 | 560.2 | 564.8 | 568.6 | 668.7 | 682.2 |
| 62.5° | 7891.8 | 6149.1 | 826.2 | 441.5 | 416.3 | 500.2 | 594.5 | 595.1 | 590.6 | 660.3 | 668.7 |
| 65° | 7293.5 | 5430.8 | 600.9 | 426.0 | 406.6 | 518.9 | 623.5 | 609.9 | 580.3 | 633.2 | 617.7 |
| 67.5° | 5792.2 | 4091.5 | 500.2 | 414.4 | 392.4 | 517.6 | 654.5 | 623.5 | 574.4 | 620.3 | 595.1 |
| 70° | 3759.7 | 2474.0 | 445.4 | 404.7 | 375.6 | 493.1 | 672.6 | 622.2 | 557.7 | 577.0 | 547.3 |
| 72.5° | 1834.4 | 1106.3 | 408.6 | 390.5 | 358.2 | 458.9 | 671.9 | 610.6 | 540.2 | 538.9 | 522.8 |
| 75° | 717.7 | 506.7 | 375.0 | 369.2 | 328.5 | 420.2 | 653.8 | 593.8 | 519.6 | 498.9 | 493.1 |
| 77.5° | 420.2 | 361.4 | 332.4 | 337.6 | 293.0 | 381.5 | 627.4 | 564.8 | 491.2 | 466.7 | 460.2 |
| 80° | 305.9 | 270.4 | 283.4 | 291.7 | 250.4 | 342.7 | 591.9 | 529.3 | 459.6 | 471.8 | 462.8 |
| 82.5° | 196.2 | 174.3 | 229.8 | 238.2 | 208.5 | 303.4 | 553.1 | 491.8 | 415.0 | 376.9 | 367.9 |
| 85° | 100.0 | 110.4 | 171.0 | 181.4 | 160.7 | 249.1 | 506.0 | 442.1 | 364.7 | 313.7 | 318.8 |
| 87.5° | 56.2 | 75.5 | 109.1 | 122.0 | 113.6 | 191.7 | 410.5 | 364.7 | 297.5 | 242.0 | 213.0 |
| 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)