

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: P193291

Luminaire Tested: **GAN-AF-03-LED-U-T4W-7030-600**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P193291  
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-03-LED-U-T4W-7030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 11498.5 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 96  
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

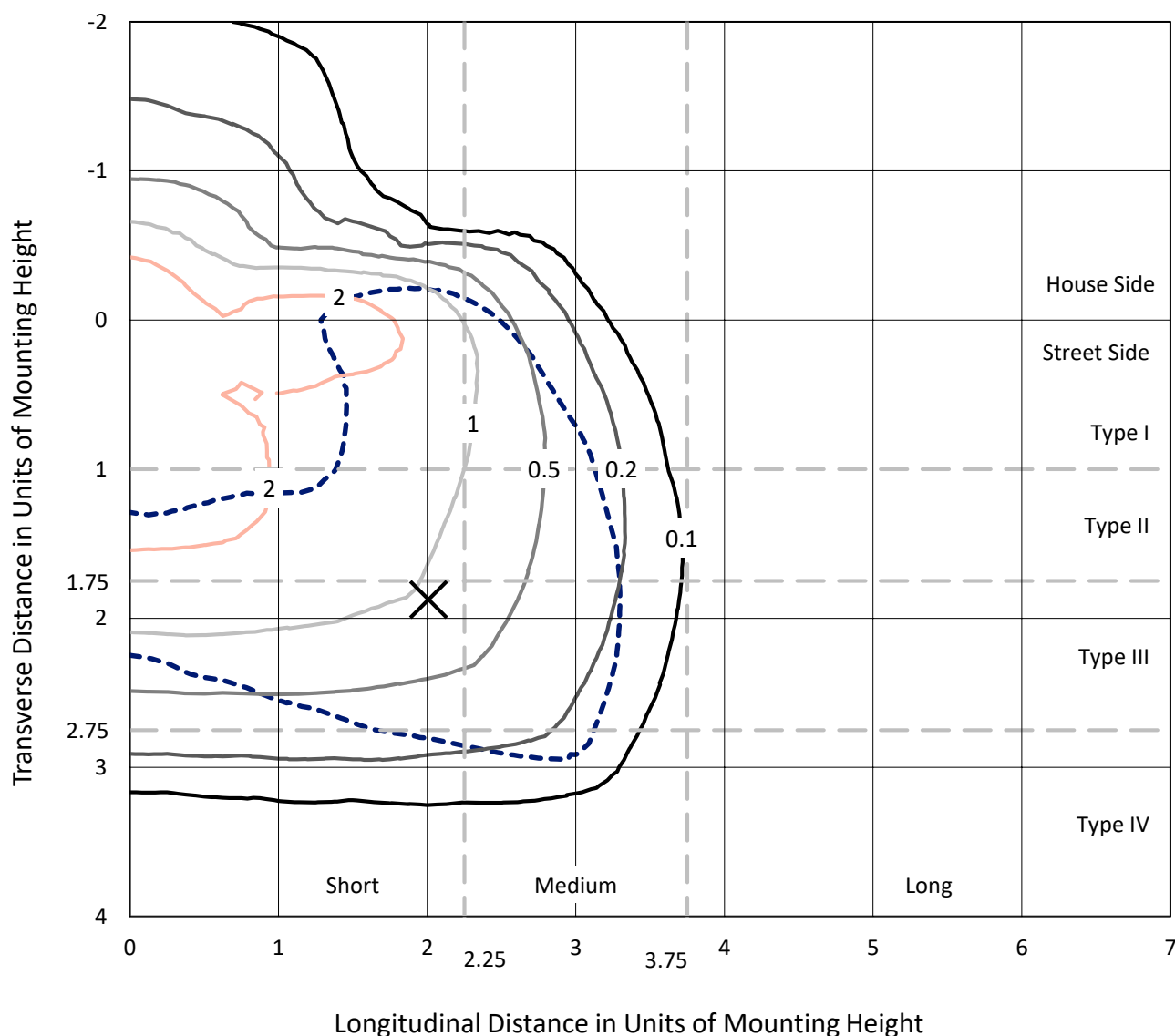


REPORT NUMBER: P193291

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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

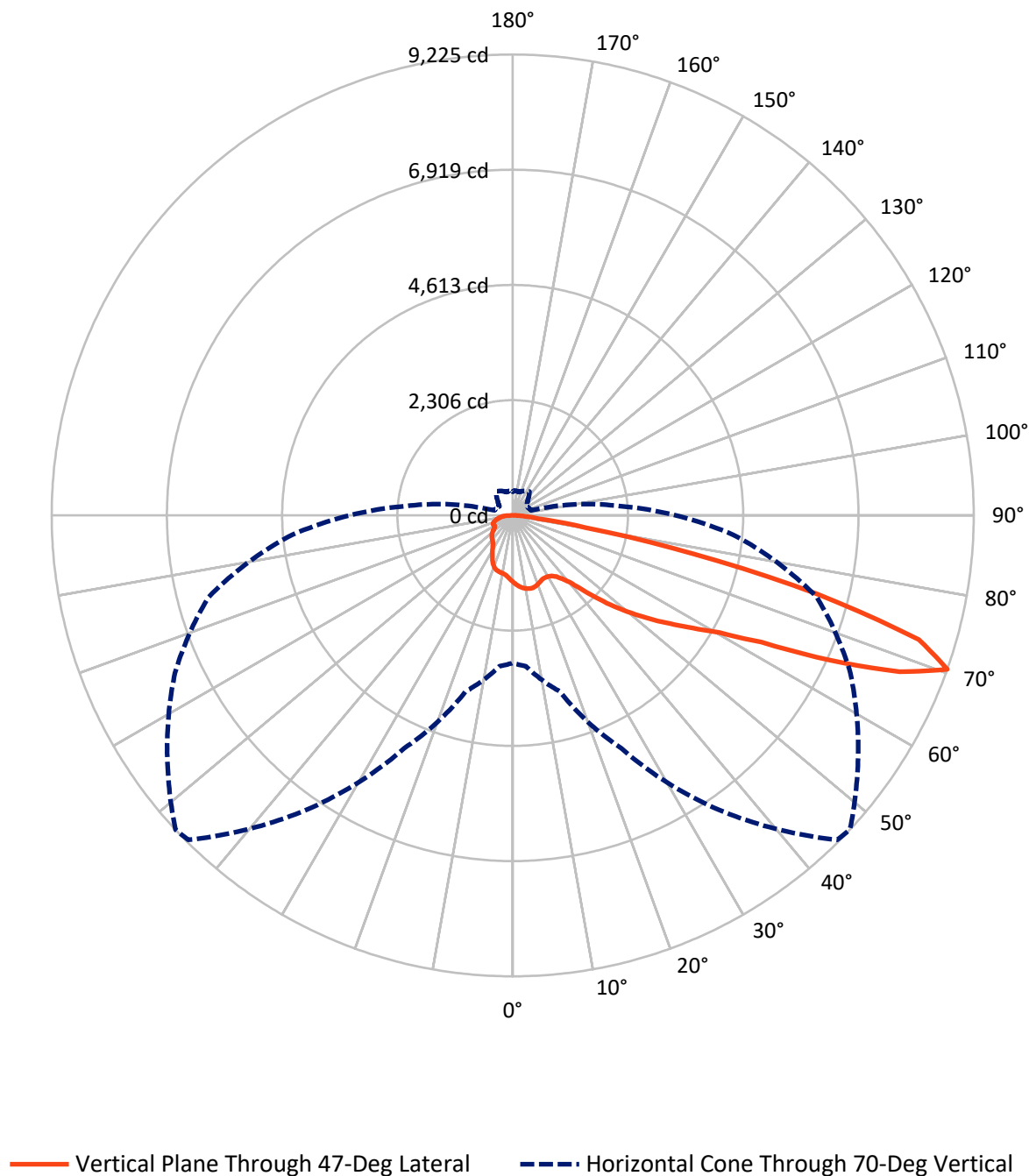


Based on 20 foot mounting height. Maximum calculated value = 3.8 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P193291

CATALOG NUMBER: GAN-AF-03-LED-U-T4W-7030-600

## Luminous Intensity Polar Plot



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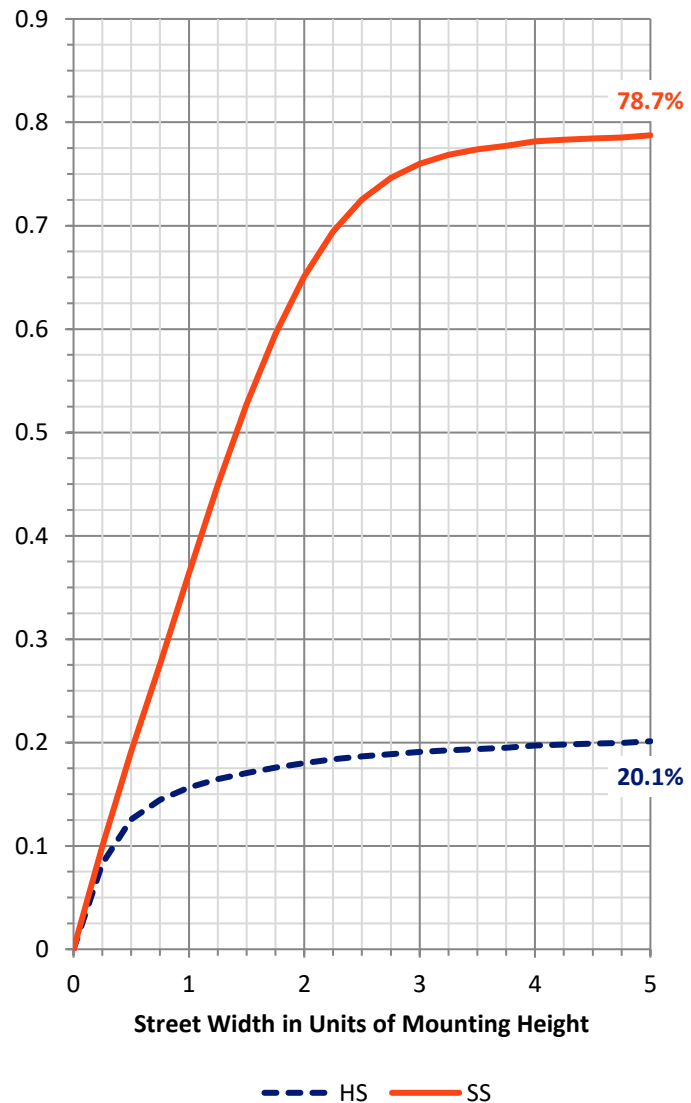
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2398.8   | 0.0    | 2398.8  |
|                    | % Fixture | 20.9     | 0.0    | 20.9    |
| <b>Street Side</b> | Lumens    | 9099.7   | 0.0    | 9099.7  |
|                    | % Fixture | 79.1     | 0.0    | 79.1    |
| <b>Total</b>       | Lumens    | 11498.5  | 0.0    | 11498.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 127.8   | 1.1       |
| 10°-20°   | 375.0   | 3.3       |
| 20°-30°   | 553.8   | 4.8       |
| 30°-40°   | 805.0   | 7.0       |
| 40°-50°   | 1448.7  | 12.6      |
| 50°-60°   | 2509.7  | 21.8      |
| 60°-70°   | 3582.1  | 31.2      |
| 70°-80°   | 1838.8  | 16.0      |
| 80°-90°   | 257.4   | 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°    | 11498.5 | 100.0     |
| 0°-180°   | 11498.5 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P193291

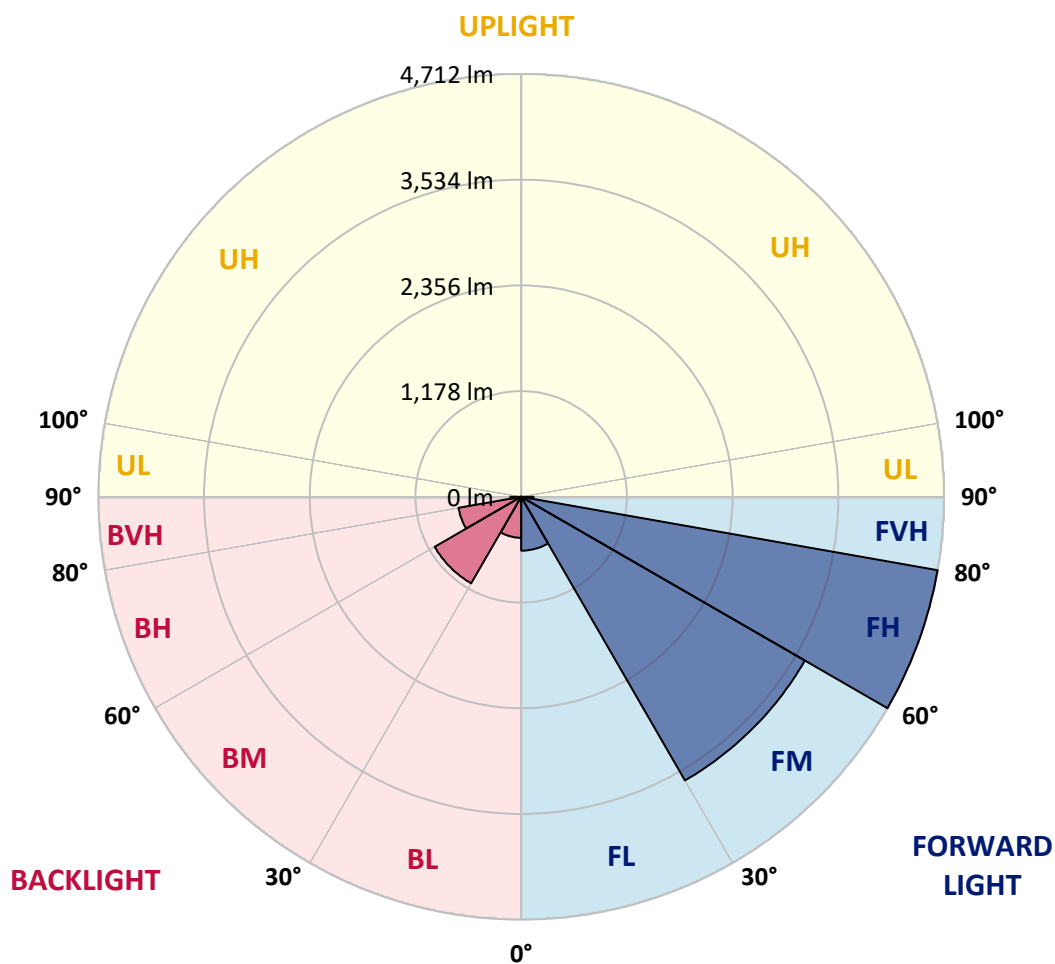
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 600.0  | 5.2       |                         |      |         |
| FM   | (30°-60°)   | 3649.9 | 31.7      |                         |      |         |
| FH   | (60°-80°)   | 4712.4 | 41.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 137.4  | 1.2       |                         |      | G2/225  |
| BL   | (0°-30°)    | 456.7  | 4.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1113.5 | 9.7       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 708.5  | 6.2       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 120.1  | 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-G2**

Type IV Short





REPORT NUMBER: P193291

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 47°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1334.2 | 1334.2 | 1334.2 | 1334.2 | 1334.2 | 1334.2 | 1334.2 | 1334.2 | 1334.2 | 1334.2 | 1334.2 |
| 2.5°  | 1412.5 | 1409.7 | 1408.6 | 1406.3 | 1403.6 | 1389.6 | 1386.7 | 1376.6 | 1362.7 | 1348.1 | 1333.1 |
| 5°    | 1505.4 | 1504.8 | 1498.6 | 1487.4 | 1469.5 | 1438.8 | 1431.6 | 1406.9 | 1373.9 | 1342.0 | 1310.1 |
| 7.5°  | 1587.0 | 1582.0 | 1570.3 | 1547.8 | 1516.5 | 1474.6 | 1464.5 | 1430.4 | 1385.1 | 1341.4 | 1298.3 |
| 10°   | 1646.9 | 1644.2 | 1618.3 | 1587.5 | 1546.8 | 1500.3 | 1488.5 | 1450.5 | 1400.7 | 1345.4 | 1291.7 |
| 12.5° | 1681.0 | 1675.4 | 1645.8 | 1608.9 | 1560.2 | 1514.9 | 1503.1 | 1464.5 | 1408.6 | 1345.4 | 1282.1 |
| 15°   | 1678.8 | 1674.8 | 1645.2 | 1604.9 | 1555.8 | 1516.0 | 1505.4 | 1466.8 | 1406.9 | 1339.7 | 1269.8 |
| 17.5° | 1634.0 | 1635.7 | 1610.5 | 1570.8 | 1530.5 | 1500.3 | 1490.9 | 1455.0 | 1395.7 | 1328.6 | 1255.3 |
| 20°   | 1555.8 | 1563.5 | 1546.8 | 1511.5 | 1489.1 | 1468.5 | 1462.3 | 1432.1 | 1378.5 | 1312.3 | 1239.6 |
| 22.5° | 1477.4 | 1484.7 | 1478.0 | 1448.3 | 1445.0 | 1432.6 | 1429.3 | 1407.5 | 1363.2 | 1302.3 | 1230.1 |
| 25°   | 1419.8 | 1426.5 | 1425.4 | 1399.6 | 1409.7 | 1409.1 | 1406.3 | 1395.7 | 1360.0 | 1302.3 | 1231.8 |
| 27.5° | 1404.1 | 1406.3 | 1404.1 | 1380.6 | 1394.5 | 1405.7 | 1403.6 | 1401.9 | 1370.0 | 1318.5 | 1253.1 |
| 30°   | 1457.8 | 1454.5 | 1437.1 | 1389.6 | 1402.5 | 1418.0 | 1415.9 | 1417.0 | 1400.1 | 1361.1 | 1300.6 |
| 32.5° | 1672.1 | 1656.9 | 1602.2 | 1468.5 | 1434.3 | 1442.7 | 1443.9 | 1462.3 | 1465.0 | 1426.5 | 1374.5 |
| 35°   | 1992.6 | 1975.9 | 1904.7 | 1679.9 | 1533.4 | 1504.3 | 1504.3 | 1532.3 | 1549.0 | 1520.5 | 1489.1 |
| 37.5° | 2332.1 | 2313.7 | 2275.7 | 1973.0 | 1741.4 | 1611.0 | 1608.3 | 1627.9 | 1651.9 | 1658.7 | 1666.4 |
| 40°   | 2718.2 | 2698.6 | 2709.2 | 2302.0 | 2031.7 | 1796.2 | 1756.6 | 1742.5 | 1807.4 | 1850.6 | 1913.1 |
| 42.5° | 3140.4 | 3131.6 | 3135.4 | 2668.3 | 2362.4 | 2073.2 | 2016.6 | 1944.5 | 2022.8 | 2099.4 | 2230.8 |
| 45°   | 3531.5 | 3539.4 | 3535.4 | 3060.5 | 2730.5 | 2411.1 | 2351.2 | 2211.3 | 2288.0 | 2419.4 | 2633.7 |
| 47.5° | 3873.9 | 3841.4 | 3891.9 | 3488.9 | 3142.8 | 2789.2 | 2715.3 | 2527.9 | 2605.8 | 2768.0 | 3130.4 |
| 50°   | 4289.5 | 4285.0 | 4211.2 | 4060.7 | 3641.2 | 3169.1 | 3072.3 | 2855.2 | 2976.0 | 3201.6 | 3756.5 |
| 52.5° | 4726.4 | 4645.2 | 4577.6 | 4505.5 | 4169.8 | 3558.3 | 3439.8 | 3181.3 | 3411.3 | 3694.8 | 4519.4 |
| 55°   | 4815.9 | 4779.5 | 4863.4 | 4984.9 | 4679.5 | 3962.9 | 3824.6 | 3590.3 | 3901.3 | 4258.7 | 5399.4 |
| 57.5° | 5007.3 | 5006.7 | 5180.1 | 5396.6 | 5204.1 | 4391.9 | 4252.6 | 4084.2 | 4452.4 | 4904.8 | 6333.5 |
| 60°   | 5136.5 | 5172.8 | 5494.9 | 5915.2 | 5719.4 | 4887.5 | 4759.5 | 4654.2 | 5078.8 | 5627.1 | 7204.0 |
| 62.5° | 5204.1 | 5253.4 | 5693.1 | 6125.5 | 6447.7 | 5712.6 | 5584.6 | 5432.9 | 5907.8 | 6419.2 | 7713.0 |
| 65°   | 4922.7 | 5019.5 | 5662.3 | 6307.3 | 7085.4 | 7050.2 | 6992.6 | 6726.2 | 6944.4 | 7045.1 | 7529.0 |
| 67.5° | 4144.1 | 4243.1 | 4991.5 | 6137.7 | 7540.7 | 8340.2 | 8352.5 | 7897.7 | 7582.1 | 7098.8 | 6330.3 |
| 70°   | 2952.5 | 3030.3 | 3649.6 | 5146.0 | 7193.9 | 9183.1 | 9225.1 | 8437.4 | 7455.2 | 6295.5 | 4422.6 |
| 72.5° | 1401.9 | 1449.5 | 2035.7 | 3349.2 | 5708.7 | 8413.9 | 8495.1 | 7748.3 | 6339.1 | 4661.0 | 2412.7 |
| 75°   | 515.1  | 529.8  | 688.2  | 1424.8 | 3311.1 | 6205.0 | 6300.6 | 5554.3 | 4202.2 | 2320.4 | 919.1  |
| 77.5° | 308.7  | 318.3  | 386.0  | 601.4  | 1302.3 | 3546.7 | 3688.1 | 3020.8 | 1836.5 | 863.7  | 452.0  |
| 80°   | 215.9  | 222.7  | 276.9  | 374.2  | 615.3  | 1351.5 | 1477.4 | 1232.9 | 731.7  | 546.6  | 329.0  |
| 82.5° | 146.0  | 149.3  | 194.7  | 252.8  | 408.9  | 482.8  | 520.8  | 548.3  | 493.5  | 406.7  | 208.6  |
| 85°   | 95.7   | 99.0   | 131.9  | 166.7  | 260.1  | 249.5  | 255.1  | 322.8  | 360.2  | 276.3  | 115.9  |
| 87.5° | 54.8   | 57.1   | 79.4   | 88.9   | 127.5  | 105.8  | 106.8  | 170.0  | 230.4  | 186.3  | 70.5   |
| 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-T4W-7030-600

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1334.2 | 1334.2 | 1334.2 | 1334.2 | 1334.2 | 1334.2 | 1334.2 | 1334.2 | 1334.2 | 1334.2 | 1334.2 |
| 2.5°  | 1329.1 | 1321.8 | 1305.6 | 1295.6 | 1286.1 | 1283.8 | 1279.9 | 1279.3 | 1278.8 | 1278.8 | 1277.1 |
| 5°    | 1299.5 | 1287.2 | 1262.1 | 1248.1 | 1236.3 | 1235.1 | 1234.6 | 1237.4 | 1238.6 | 1239.6 | 1237.9 |
| 7.5°  | 1280.5 | 1263.7 | 1232.3 | 1212.2 | 1198.2 | 1194.9 | 1200.4 | 1213.4 | 1221.7 | 1225.2 | 1223.3 |
| 10°   | 1268.7 | 1248.1 | 1211.6 | 1189.9 | 1178.2 | 1176.4 | 1183.8 | 1198.8 | 1216.2 | 1222.8 | 1222.3 |
| 12.5° | 1255.3 | 1231.8 | 1193.2 | 1170.2 | 1163.6 | 1166.9 | 1176.4 | 1190.4 | 1208.3 | 1218.9 | 1219.6 |
| 15°   | 1241.8 | 1214.4 | 1174.7 | 1154.7 | 1151.8 | 1156.3 | 1165.2 | 1175.8 | 1189.9 | 1200.4 | 1201.7 |
| 17.5° | 1225.7 | 1197.2 | 1157.4 | 1136.8 | 1134.4 | 1136.8 | 1137.3 | 1142.9 | 1151.8 | 1161.9 | 1164.7 |
| 20°   | 1208.3 | 1179.2 | 1137.8 | 1117.1 | 1107.1 | 1098.0 | 1088.0 | 1089.2 | 1091.9 | 1102.0 | 1104.3 |
| 22.5° | 1196.0 | 1166.9 | 1122.7 | 1094.2 | 1067.4 | 1040.4 | 1020.4 | 1017.5 | 1018.7 | 1027.0 | 1029.9 |
| 25°   | 1197.2 | 1166.4 | 1118.9 | 1069.5 | 1010.8 | 967.8  | 940.9  | 936.5  | 936.0  | 942.1  | 945.9  |
| 27.5° | 1218.9 | 1188.2 | 1133.3 | 1044.4 | 949.4  | 885.5  | 857.0  | 853.7  | 849.2  | 850.8  | 855.3  |
| 30°   | 1267.6 | 1239.1 | 1168.6 | 1018.7 | 882.7  | 805.0  | 775.3  | 772.0  | 765.8  | 763.0  | 766.4  |
| 32.5° | 1347.0 | 1323.5 | 1220.1 | 994.0  | 816.1  | 736.2  | 706.0  | 698.7  | 694.8  | 691.4  | 694.3  |
| 35°   | 1479.1 | 1469.0 | 1288.8 | 967.2  | 757.3  | 683.0  | 655.7  | 644.4  | 638.8  | 644.9  | 649.4  |
| 37.5° | 1686.1 | 1691.7 | 1379.0 | 925.2  | 712.2  | 647.8  | 624.9  | 612.0  | 603.5  | 608.7  | 613.7  |
| 40°   | 1979.1 | 1983.0 | 1478.5 | 866.0  | 672.9  | 627.0  | 602.4  | 590.8  | 579.0  | 570.0  | 569.5  |
| 42.5° | 2364.1 | 2324.3 | 1576.4 | 801.6  | 627.7  | 614.2  | 586.8  | 572.3  | 554.4  | 529.8  | 524.8  |
| 45°   | 2820.5 | 2681.2 | 1650.8 | 727.7  | 576.8  | 598.5  | 569.5  | 549.3  | 521.3  | 494.5  | 491.6  |
| 47.5° | 3346.4 | 3064.4 | 1687.2 | 651.1  | 529.2  | 575.6  | 548.3  | 516.4  | 481.1  | 467.6  | 466.0  |
| 50°   | 3988.5 | 3519.2 | 1704.6 | 576.8  | 487.9  | 545.4  | 517.5  | 479.9  | 450.3  | 447.5  | 445.9  |
| 52.5° | 4719.7 | 4066.3 | 1710.1 | 515.8  | 453.7  | 506.3  | 492.3  | 455.9  | 432.4  | 434.7  | 434.7  |
| 55°   | 5485.0 | 4631.3 | 1634.0 | 471.6  | 422.4  | 466.0  | 475.5  | 446.5  | 426.8  | 435.7  | 439.1  |
| 57.5° | 6187.6 | 5132.0 | 1394.5 | 437.5  | 392.7  | 435.2  | 469.4  | 455.4  | 442.0  | 478.3  | 480.5  |
| 60°   | 6726.9 | 5427.9 | 1041.6 | 406.7  | 370.9  | 424.6  | 485.5  | 489.5  | 492.9  | 579.5  | 591.3  |
| 62.5° | 6839.8 | 5329.4 | 716.0  | 382.6  | 360.8  | 433.5  | 515.1  | 515.8  | 511.9  | 572.3  | 579.5  |
| 65°   | 6321.3 | 4706.8 | 520.8  | 369.2  | 352.5  | 449.7  | 540.4  | 528.6  | 502.9  | 548.8  | 535.4  |
| 67.5° | 5020.1 | 3546.0 | 433.5  | 359.1  | 340.2  | 448.6  | 567.3  | 540.4  | 497.9  | 537.5  | 515.8  |
| 70°   | 3258.5 | 2144.2 | 386.0  | 350.7  | 325.6  | 427.4  | 582.9  | 539.3  | 483.4  | 500.1  | 474.4  |
| 72.5° | 1589.8 | 958.9  | 354.1  | 338.4  | 310.6  | 397.7  | 582.4  | 529.2  | 468.1  | 467.1  | 453.1  |
| 75°   | 622.0  | 439.1  | 325.0  | 320.0  | 284.7  | 364.2  | 566.7  | 514.6  | 450.3  | 432.4  | 427.4  |
| 77.5° | 364.2  | 313.2  | 288.1  | 292.6  | 253.9  | 330.6  | 543.8  | 489.5  | 425.7  | 404.5  | 398.9  |
| 80°   | 265.2  | 234.4  | 245.7  | 252.8  | 217.1  | 297.0  | 513.0  | 458.7  | 398.2  | 408.9  | 401.1  |
| 82.5° | 170.0  | 151.0  | 199.2  | 206.4  | 180.8  | 262.9  | 479.4  | 426.2  | 359.7  | 326.6  | 318.8  |
| 85°   | 86.8   | 95.7   | 148.3  | 157.3  | 139.3  | 215.9  | 438.5  | 383.2  | 316.1  | 271.8  | 276.3  |
| 87.5° | 48.6   | 65.4   | 94.5   | 105.8  | 98.5   | 166.2  | 355.7  | 316.1  | 257.9  | 209.8  | 184.6  |
| 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)