

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: P193289

Luminaire Tested: **GAN-AF-01-LED-U-T4W-7030-600**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P193289  
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-01-LED-U-T4W-7030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 3943.2 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 34  
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



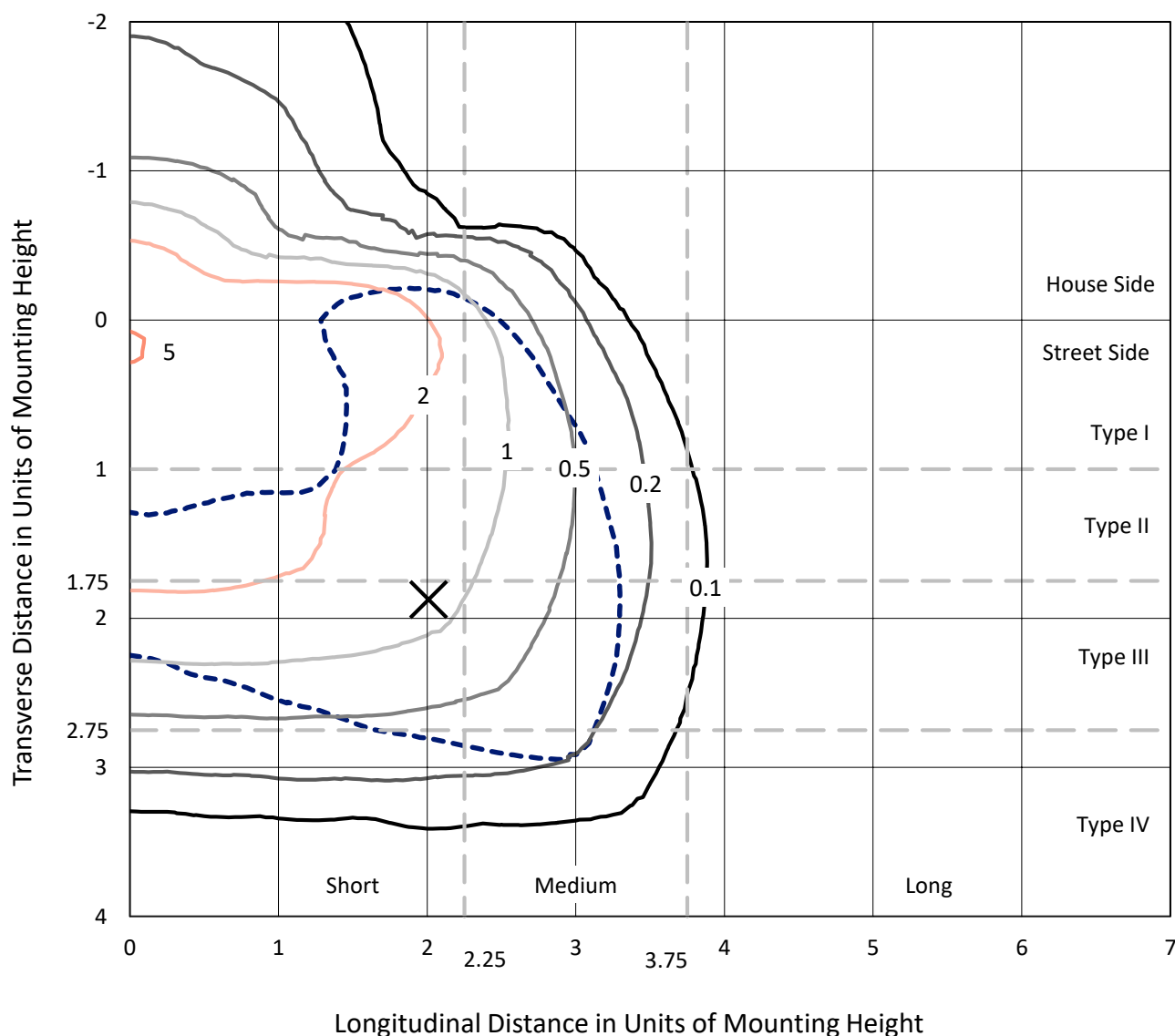
REPORT NUMBER: P193289

CATALOG NUMBER: GAN-AF-01-LED-U-T4W-7030-600

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

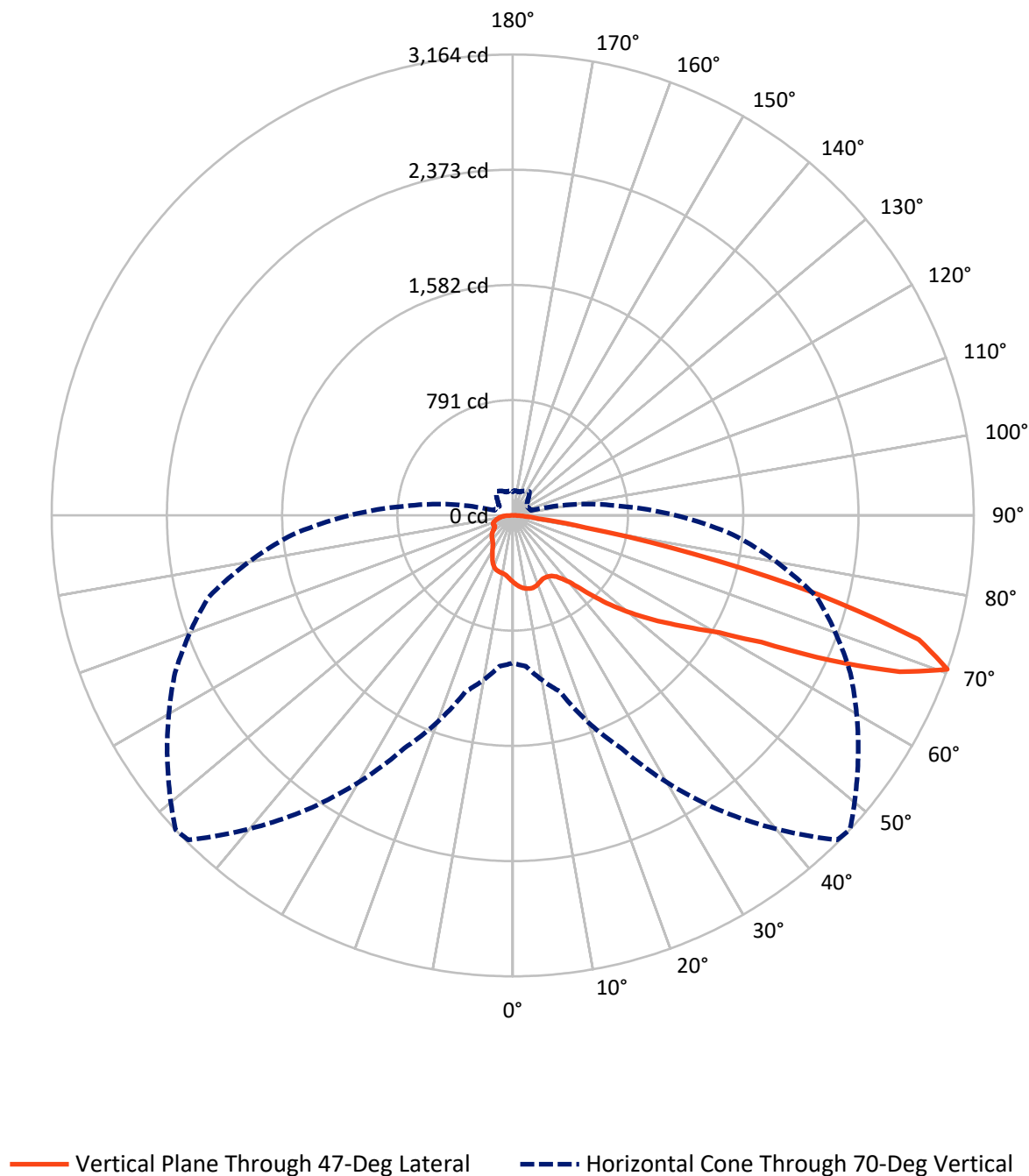


Based on 10 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P193289

CATALOG NUMBER: GAN-AF-01-LED-U-T4W-7030-600

## Luminous Intensity Polar Plot



REPORT NUMBER: P193289

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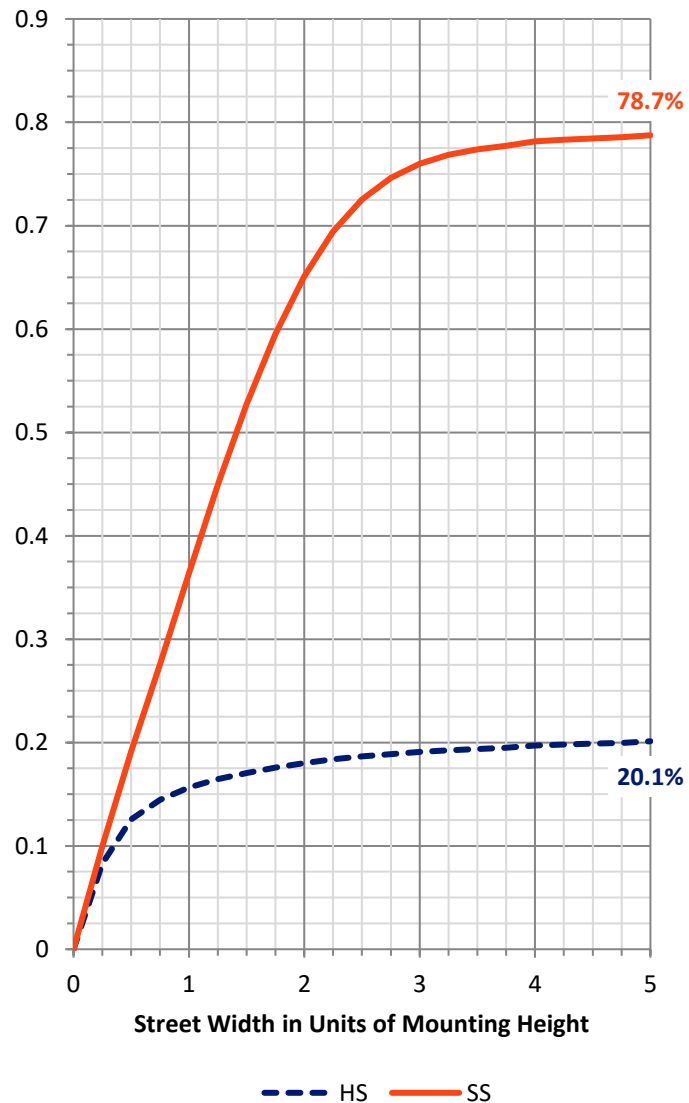
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 822.6    | 0.0    | 822.6  |
|                    | % Fixture | 20.9     | 0.0    | 20.9   |
| <b>Street Side</b> | Lumens    | 3120.5   | 0.0    | 3120.5 |
|                    | % Fixture | 79.1     | 0.0    | 79.1   |
| <b>Total</b>       | Lumens    | 3943.2   | 0.0    | 3943.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 43.8   | 1.1       |
| 10°-20°   | 128.6  | 3.3       |
| 20°-30°   | 189.9  | 4.8       |
| 30°-40°   | 276.1  | 7.0       |
| 40°-50°   | 496.8  | 12.6      |
| 50°-60°   | 860.7  | 21.8      |
| 60°-70°   | 1228.4 | 31.2      |
| 70°-80°   | 630.6  | 16.0      |
| 80°-90°   | 88.3   | 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°    | 3943.2 | 100.0     |
| 0°-180°   | 3943.2 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P193289

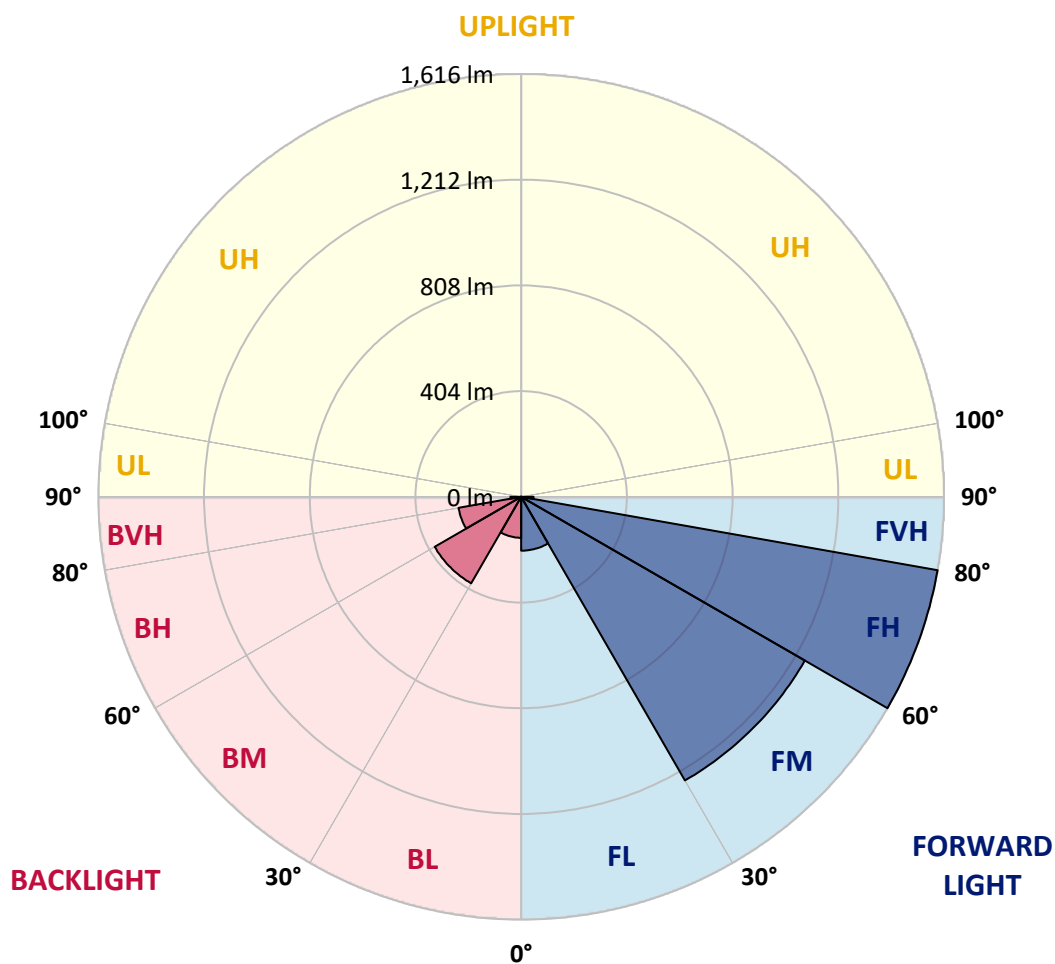
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 205.7  | 5.2       |                         |      |         |
| FM   | (30°-60°)   | 1251.7 | 31.7      |                         |      |         |
| FH   | (60°-80°)   | 1616.0 | 41.0      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 47.1   | 1.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 156.6  | 4.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 381.8  | 9.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 243.0  | 6.2       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 41.2   | 1.0       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type IV Short





REPORT NUMBER: P193289

CATALOG NUMBER: GAN-AF-01-LED-U-T4W-7030-600

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 47°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 457.6  | 457.6  | 457.6  | 457.6  | 457.6  | 457.6  | 457.6  | 457.6  | 457.6  | 457.6  | 457.6  |
| 2.5°  | 484.3  | 483.5  | 483.0  | 482.3  | 481.3  | 476.5  | 475.6  | 472.1  | 467.3  | 462.2  | 457.1  |
| 5°    | 516.2  | 516.0  | 513.9  | 510.1  | 503.9  | 493.5  | 490.9  | 482.5  | 471.1  | 460.2  | 449.3  |
| 7.5°  | 544.2  | 542.5  | 538.5  | 530.8  | 520.1  | 505.7  | 502.3  | 490.6  | 474.9  | 460.0  | 445.2  |
| 10°   | 564.8  | 563.8  | 555.0  | 544.4  | 530.5  | 514.5  | 510.5  | 497.4  | 480.4  | 461.4  | 442.9  |
| 12.5° | 576.5  | 574.6  | 564.5  | 551.8  | 535.1  | 519.5  | 515.4  | 502.3  | 483.0  | 461.4  | 439.7  |
| 15°   | 575.7  | 574.3  | 564.3  | 550.3  | 533.5  | 519.8  | 516.2  | 503.0  | 482.5  | 459.4  | 435.5  |
| 17.5° | 560.4  | 560.9  | 552.3  | 538.6  | 524.9  | 514.5  | 511.3  | 499.0  | 478.7  | 455.6  | 430.5  |
| 20°   | 533.5  | 536.1  | 530.5  | 518.3  | 510.7  | 503.5  | 501.5  | 491.1  | 472.6  | 450.0  | 425.1  |
| 22.5° | 506.6  | 509.1  | 506.9  | 496.7  | 495.5  | 491.3  | 490.1  | 482.7  | 467.5  | 446.6  | 421.8  |
| 25°   | 486.9  | 489.2  | 488.8  | 479.9  | 483.5  | 483.3  | 482.3  | 478.7  | 466.3  | 446.6  | 422.4  |
| 27.5° | 481.5  | 482.3  | 481.5  | 473.4  | 478.2  | 482.1  | 481.3  | 480.7  | 469.9  | 452.2  | 429.7  |
| 30°   | 500.0  | 498.8  | 492.9  | 476.5  | 481.0  | 486.3  | 485.5  | 485.8  | 480.2  | 466.7  | 446.0  |
| 32.5° | 573.4  | 568.2  | 549.5  | 503.5  | 491.8  | 494.7  | 495.2  | 501.5  | 502.4  | 489.2  | 471.4  |
| 35°   | 683.3  | 677.5  | 653.2  | 576.2  | 525.9  | 515.8  | 515.8  | 525.4  | 531.2  | 521.3  | 510.7  |
| 37.5° | 799.8  | 793.4  | 780.4  | 676.7  | 597.2  | 552.6  | 551.5  | 558.2  | 566.5  | 568.8  | 571.5  |
| 40°   | 932.1  | 925.4  | 929.0  | 789.4  | 696.7  | 616.0  | 602.3  | 597.5  | 619.8  | 634.6  | 656.1  |
| 42.5° | 1077.0 | 1073.9 | 1075.2 | 915.0  | 810.1  | 710.9  | 691.6  | 666.8  | 693.7  | 719.9  | 765.1  |
| 45°   | 1211.0 | 1213.8 | 1212.4 | 1049.6 | 936.4  | 826.8  | 806.4  | 758.4  | 784.6  | 829.8  | 903.1  |
| 47.5° | 1328.5 | 1317.3 | 1334.6 | 1196.5 | 1077.8 | 956.4  | 931.2  | 866.9  | 893.5  | 949.3  | 1073.5 |
| 50°   | 1470.9 | 1469.4 | 1444.2 | 1392.5 | 1248.7 | 1086.8 | 1053.6 | 979.2  | 1020.6 | 1097.8 | 1288.1 |
| 52.5° | 1620.9 | 1593.0 | 1569.8 | 1545.0 | 1429.9 | 1220.3 | 1179.6 | 1091.0 | 1169.8 | 1267.1 | 1549.9 |
| 55°   | 1651.6 | 1639.0 | 1667.9 | 1709.5 | 1604.7 | 1358.9 | 1311.5 | 1231.3 | 1337.9 | 1460.5 | 1851.6 |
| 57.5° | 1717.1 | 1716.9 | 1776.4 | 1850.7 | 1784.6 | 1506.1 | 1458.4 | 1400.6 | 1526.8 | 1682.0 | 2172.0 |
| 60°   | 1761.5 | 1774.0 | 1884.4 | 2028.5 | 1961.3 | 1676.0 | 1632.2 | 1596.1 | 1741.7 | 1929.7 | 2470.5 |
| 62.5° | 1784.6 | 1801.5 | 1952.4 | 2100.6 | 2211.1 | 1959.0 | 1915.1 | 1863.1 | 2026.0 | 2201.3 | 2645.0 |
| 65°   | 1688.2 | 1721.4 | 1941.7 | 2163.0 | 2429.8 | 2417.7 | 2397.9 | 2306.7 | 2381.5 | 2415.9 | 2581.9 |
| 67.5° | 1421.1 | 1455.2 | 1711.8 | 2104.9 | 2585.9 | 2860.1 | 2864.3 | 2708.3 | 2600.2 | 2434.4 | 2170.9 |
| 70°   | 1012.5 | 1039.2 | 1251.6 | 1764.7 | 2467.0 | 3149.2 | 3163.6 | 2893.5 | 2556.5 | 2159.0 | 1516.6 |
| 72.5° | 480.7  | 497.0  | 698.0  | 1148.6 | 1957.7 | 2885.4 | 2913.2 | 2657.0 | 2173.9 | 1598.4 | 827.4  |
| 75°   | 176.7  | 181.7  | 236.0  | 488.6  | 1135.5 | 2127.9 | 2160.6 | 1904.7 | 1441.1 | 795.7  | 315.2  |
| 77.5° | 105.9  | 109.2  | 132.3  | 206.2  | 446.6  | 1216.3 | 1264.7 | 1035.9 | 629.8  | 296.2  | 155.0  |
| 80°   | 74.1   | 76.4   | 94.9   | 128.4  | 211.0  | 463.5  | 506.6  | 422.9  | 251.0  | 187.4  | 112.7  |
| 82.5° | 50.0   | 51.3   | 66.7   | 86.8   | 140.2  | 165.5  | 178.6  | 188.0  | 169.3  | 139.5  | 71.6   |
| 85°   | 32.8   | 34.0   | 45.3   | 57.2   | 89.1   | 85.5   | 87.5   | 110.7  | 123.6  | 94.7   | 39.7   |
| 87.5° | 18.8   | 19.5   | 27.2   | 30.5   | 43.7   | 36.3   | 36.6   | 58.4   | 79.0   | 63.9   | 24.1   |
| 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: P193289

CATALOG NUMBER: GAN-AF-01-LED-U-T4W-7030-600

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 457.6  | 457.6  | 457.6 | 457.6 | 457.6 | 457.6 | 457.6 | 457.6 | 457.6 | 457.6 | 457.6 |
| 2.5°  | 455.8  | 453.3  | 447.8 | 444.2 | 441.1 | 440.4 | 438.9 | 438.6 | 438.5 | 438.5 | 437.9 |
| 5°    | 445.7  | 441.4  | 432.7 | 428.0 | 423.9 | 423.6 | 423.4 | 424.4 | 424.7 | 425.1 | 424.6 |
| 7.5°  | 439.1  | 433.3  | 422.7 | 415.7 | 411.0 | 409.7 | 411.7 | 416.1 | 419.0 | 420.1 | 419.5 |
| 10°   | 435.1  | 428.0  | 415.5 | 408.1 | 404.0 | 403.3 | 405.9 | 411.2 | 417.1 | 419.3 | 419.1 |
| 12.5° | 430.5  | 422.4  | 409.1 | 401.3 | 399.1 | 400.2 | 403.3 | 408.2 | 414.4 | 418.0 | 418.3 |
| 15°   | 425.9  | 416.5  | 402.8 | 395.9 | 395.0 | 396.5 | 399.6 | 403.2 | 408.1 | 411.7 | 412.0 |
| 17.5° | 420.3  | 410.5  | 396.9 | 389.8 | 389.1 | 389.8 | 390.0 | 391.9 | 395.0 | 398.5 | 399.5 |
| 20°   | 414.4  | 404.4  | 390.2 | 383.1 | 379.6 | 376.6 | 373.1 | 373.5 | 374.4 | 377.9 | 378.7 |
| 22.5° | 410.2  | 400.2  | 385.0 | 375.2 | 366.0 | 356.8 | 349.9 | 349.0 | 349.3 | 352.3 | 353.1 |
| 25°   | 410.5  | 400.0  | 383.7 | 366.8 | 346.7 | 331.9 | 322.7 | 321.1 | 320.9 | 323.1 | 324.4 |
| 27.5° | 418.0  | 407.4  | 388.6 | 358.2 | 325.6 | 303.6 | 293.9 | 292.7 | 291.1 | 291.8 | 293.4 |
| 30°   | 434.8  | 424.9  | 400.8 | 349.3 | 302.7 | 276.1 | 265.9 | 264.7 | 262.7 | 261.6 | 262.8 |
| 32.5° | 461.9  | 453.9  | 418.4 | 340.9 | 279.9 | 252.5 | 242.1 | 239.6 | 238.3 | 237.1 | 238.0 |
| 35°   | 507.2  | 503.8  | 442.0 | 331.7 | 259.7 | 234.3 | 224.8 | 221.0 | 219.1 | 221.1 | 222.7 |
| 37.5° | 578.2  | 580.1  | 472.9 | 317.3 | 244.2 | 222.2 | 214.2 | 209.9 | 206.9 | 208.6 | 210.5 |
| 40°   | 678.7  | 680.0  | 507.1 | 296.9 | 230.7 | 215.0 | 206.6 | 202.5 | 198.6 | 195.5 | 195.2 |
| 42.5° | 810.7  | 797.0  | 540.7 | 274.9 | 215.2 | 210.7 | 201.2 | 196.2 | 190.1 | 181.7 | 180.0 |
| 45°   | 967.3  | 919.5  | 566.1 | 249.5 | 197.8 | 205.3 | 195.2 | 188.4 | 178.7 | 169.6 | 168.6 |
| 47.5° | 1147.5 | 1050.8 | 578.5 | 223.3 | 181.5 | 197.4 | 188.0 | 177.1 | 165.0 | 160.4 | 159.8 |
| 50°   | 1367.8 | 1206.9 | 584.5 | 197.8 | 167.2 | 187.1 | 177.4 | 164.6 | 154.4 | 153.5 | 152.9 |
| 52.5° | 1618.5 | 1394.4 | 586.4 | 176.9 | 155.5 | 173.6 | 168.8 | 156.3 | 148.3 | 149.0 | 149.0 |
| 55°   | 1881.0 | 1588.2 | 560.4 | 161.7 | 144.9 | 159.8 | 163.1 | 153.1 | 146.4 | 149.4 | 150.6 |
| 57.5° | 2122.0 | 1759.9 | 478.2 | 150.0 | 134.7 | 149.2 | 160.9 | 156.1 | 151.6 | 164.0 | 164.8 |
| 60°   | 2306.8 | 1861.3 | 357.2 | 139.5 | 127.2 | 145.7 | 166.5 | 167.8 | 169.1 | 198.8 | 202.7 |
| 62.5° | 2345.6 | 1827.6 | 245.5 | 131.2 | 123.7 | 148.7 | 176.7 | 176.9 | 175.6 | 196.2 | 198.8 |
| 65°   | 2167.7 | 1614.1 | 178.6 | 126.6 | 120.8 | 154.3 | 185.3 | 181.3 | 172.4 | 188.2 | 183.5 |
| 67.5° | 1721.5 | 1216.0 | 148.7 | 123.1 | 116.7 | 153.8 | 194.5 | 185.3 | 170.8 | 184.3 | 176.9 |
| 70°   | 1117.4 | 735.4  | 132.3 | 120.3 | 111.7 | 146.5 | 200.0 | 184.9 | 165.7 | 171.5 | 162.7 |
| 72.5° | 545.2  | 328.8  | 121.4 | 116.1 | 106.4 | 136.3 | 199.7 | 181.5 | 160.6 | 160.2 | 155.3 |
| 75°   | 213.3  | 150.6  | 111.5 | 109.7 | 97.7  | 124.9 | 194.4 | 176.5 | 154.4 | 148.3 | 146.5 |
| 77.5° | 124.9  | 107.4  | 98.8  | 100.3 | 87.1  | 113.4 | 186.5 | 167.8 | 146.0 | 138.6 | 136.8 |
| 80°   | 90.9   | 80.5   | 84.2  | 86.8  | 74.4  | 101.8 | 175.9 | 157.4 | 136.6 | 140.2 | 137.5 |
| 82.5° | 58.4   | 51.8   | 68.3  | 70.8  | 62.0  | 90.1  | 164.4 | 146.2 | 123.4 | 112.0 | 109.4 |
| 85°   | 29.7   | 32.8   | 50.8  | 53.9  | 47.7  | 74.1  | 150.4 | 131.4 | 108.3 | 93.2  | 94.7  |
| 87.5° | 16.7   | 22.4   | 32.4  | 36.3  | 33.8  | 57.0  | 122.1 | 108.3 | 88.4  | 71.9  | 63.3  |
| 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)