

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: P192929

Luminaire Tested: **GAN-AF-01-LED-U-SL4-7030-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192929  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
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-SL4-7030-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3223.2 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - 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

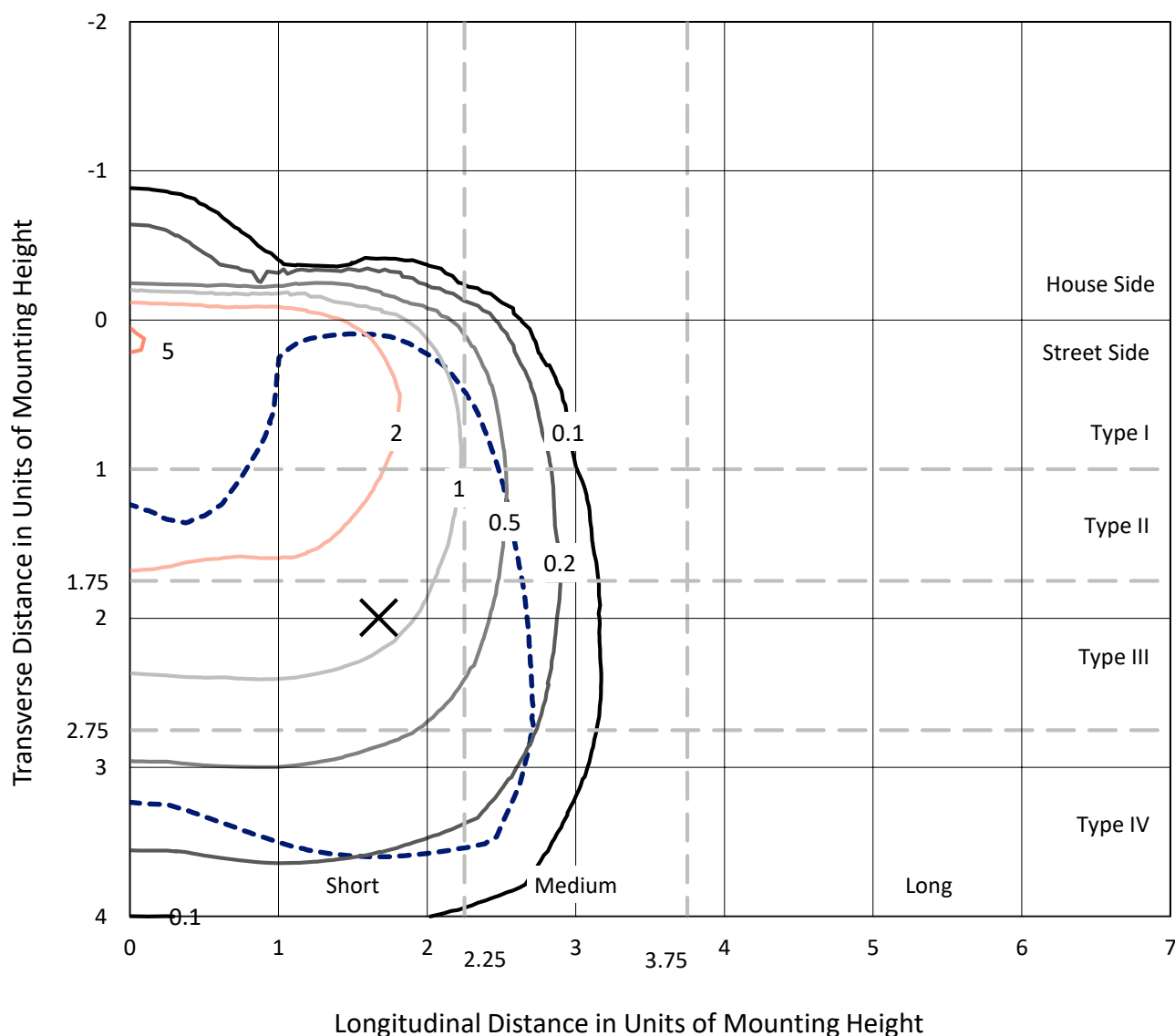


REPORT NUMBER: P192929

CATALOG NUMBER: GAN-AF-01-LED-U-SL4-7030-600-HSS

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

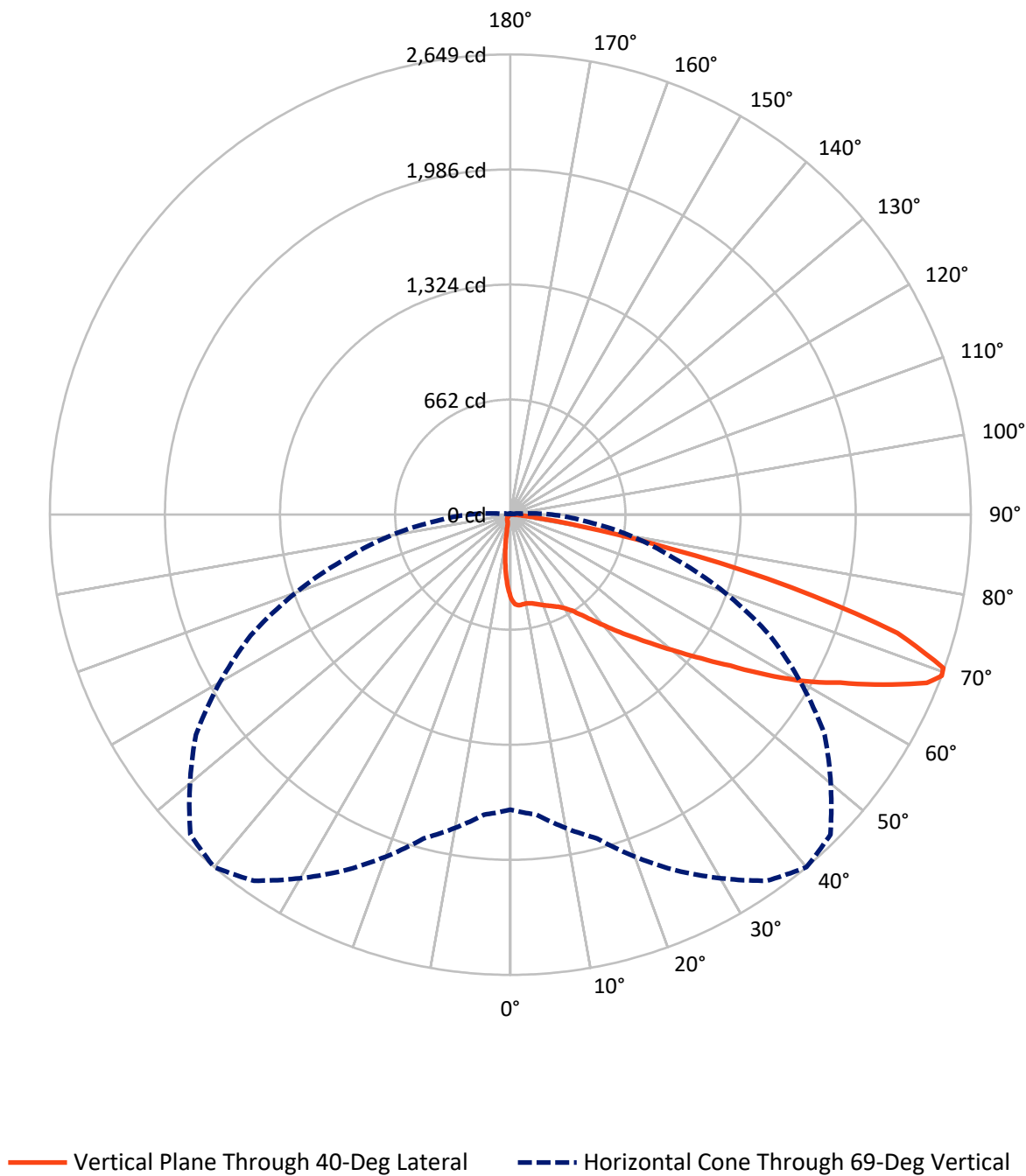


Based on 10 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P192929

CATALOG NUMBER: GAN-AF-01-LED-U-SL4-7030-600-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P192929

CATALOG NUMBER: GAN-AF-01-LED-U-SL4-7030-600-HSS

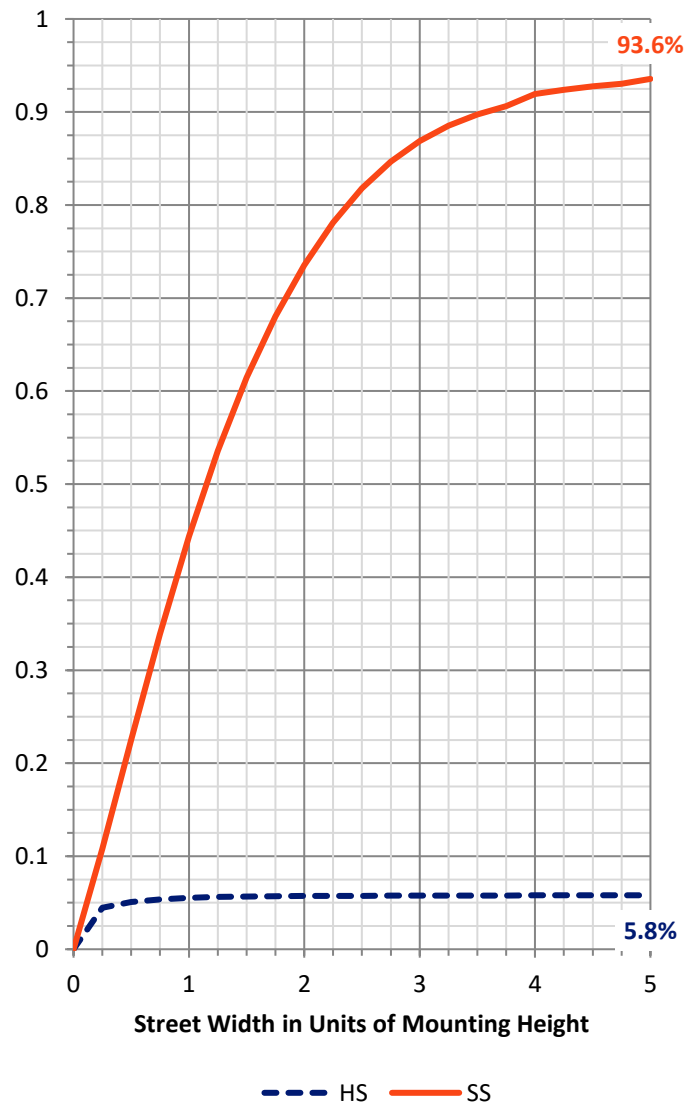
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 188.6    | 0.0    | 188.6  |
|                    | % Fixture | 5.9      | 0.0    | 5.9    |
| <b>Street Side</b> | Lumens    | 3034.6   | 0.0    | 3034.6 |
|                    | % Fixture | 94.1     | 0.0    | 94.1   |
| <b>Total</b>       | Lumens    | 3223.2   | 0.0    | 3223.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 39.0   | 1.2       |
| 10°-20°   | 96.0   | 3.0       |
| 20°-30°   | 161.7  | 5.0       |
| 30°-40°   | 264.8  | 8.2       |
| 40°-50°   | 458.4  | 14.2      |
| 50°-60°   | 722.0  | 22.4      |
| 60°-70°   | 943.0  | 29.3      |
| 70°-80°   | 485.7  | 15.1      |
| 80°-90°   | 52.5   | 1.6       |
| 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°    | 3223.2 | 100.0     |
| 0°-180°   | 3223.2 | 100.0     |



REPORT NUMBER: P192929

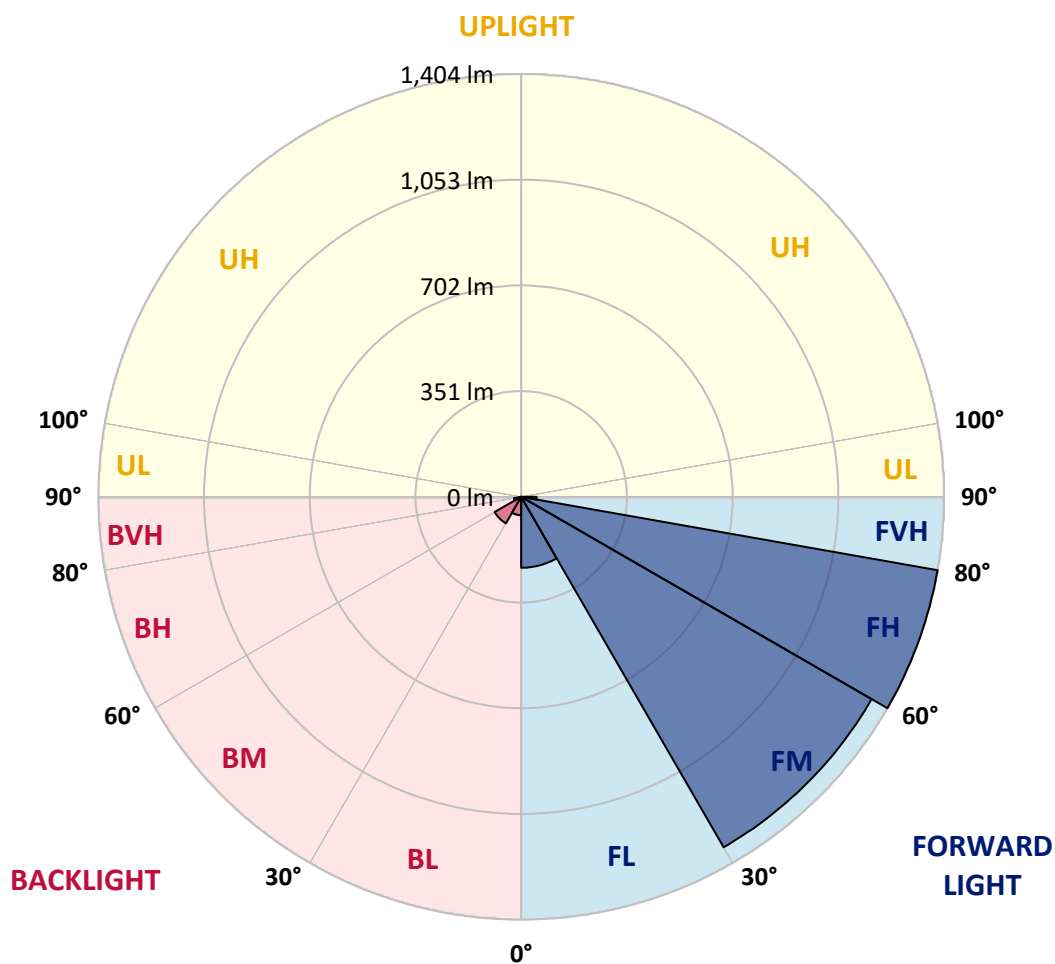
CATALOG NUMBER: GAN-AF-01-LED-U-SL4-7030-600-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 235.7  | 7.3       |                         |      |         |
| FM   | (30°-60°)   | 1343.9 | 41.7      |                         |      |         |
| FH   | (60°-80°)   | 1404.1 | 43.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 50.9   | 1.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 61.1   | 1.9       | B0/110                  |      |         |
| BM   | (30°-60°)   | 101.4  | 3.1       | B0/220                  |      |         |
| BH   | (60°-80°)   | 24.5   | 0.8       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.7    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type IV Short





REPORT NUMBER: P192929

CATALOG NUMBER: GAN-AF-01-LED-U-SL4-7030-600-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 40°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 481.5  | 481.5  | 481.5  | 481.5  | 481.5  | 481.5  | 481.5  | 481.5  | 481.5  | 481.5  | 481.5  |
| 2.5°  | 528.7  | 525.9  | 524.1  | 521.8  | 519.0  | 516.5  | 515.4  | 508.4  | 501.7  | 492.5  | 482.0  |
| 5°    | 538.5  | 537.5  | 534.5  | 531.4  | 527.9  | 524.1  | 522.0  | 513.6  | 504.0  | 490.6  | 472.1  |
| 7.5°  | 539.5  | 538.3  | 534.5  | 530.2  | 525.5  | 520.8  | 517.3  | 508.8  | 500.0  | 486.3  | 464.0  |
| 10°   | 538.0  | 536.6  | 533.7  | 529.2  | 523.2  | 518.8  | 515.1  | 507.1  | 499.7  | 487.3  | 462.3  |
| 12.5° | 536.3  | 535.0  | 533.5  | 531.2  | 526.1  | 523.1  | 520.0  | 512.2  | 505.6  | 495.2  | 467.9  |
| 15°   | 538.0  | 537.2  | 538.7  | 537.8  | 535.0  | 532.2  | 529.2  | 522.3  | 516.1  | 507.5  | 478.1  |
| 17.5° | 545.2  | 545.2  | 550.0  | 550.6  | 547.9  | 544.1  | 539.7  | 532.7  | 527.6  | 520.3  | 490.1  |
| 20°   | 562.3  | 561.7  | 567.9  | 569.0  | 562.4  | 556.5  | 550.0  | 541.6  | 537.5  | 532.9  | 502.0  |
| 22.5° | 591.6  | 589.0  | 592.6  | 591.5  | 578.6  | 569.5  | 561.4  | 551.0  | 548.9  | 546.8  | 515.3  |
| 25°   | 629.9  | 628.4  | 630.9  | 619.5  | 596.9  | 584.4  | 574.8  | 563.1  | 563.1  | 565.2  | 530.2  |
| 27.5° | 685.3  | 679.6  | 671.1  | 651.1  | 617.2  | 601.3  | 590.9  | 578.4  | 581.7  | 589.6  | 550.0  |
| 30°   | 742.1  | 735.8  | 716.4  | 685.7  | 641.9  | 625.3  | 613.2  | 600.2  | 607.8  | 622.2  | 576.6  |
| 32.5° | 798.1  | 791.0  | 763.6  | 724.8  | 677.4  | 660.8  | 649.0  | 634.7  | 647.5  | 671.7  | 615.2  |
| 35°   | 852.4  | 846.1  | 814.4  | 768.7  | 724.6  | 710.8  | 700.1  | 687.6  | 704.0  | 737.8  | 670.0  |
| 37.5° | 913.4  | 906.6  | 867.9  | 818.5  | 782.0  | 772.0  | 764.2  | 751.7  | 780.4  | 830.0  | 746.1  |
| 40°   | 988.5  | 976.8  | 924.8  | 875.3  | 848.4  | 843.6  | 838.2  | 836.5  | 881.1  | 949.7  | 847.7  |
| 42.5° | 1074.3 | 1055.2 | 984.2  | 935.5  | 921.3  | 924.8  | 923.4  | 931.1  | 1007.3 | 1098.6 | 971.2  |
| 45°   | 1160.4 | 1135.6 | 1050.4 | 999.6  | 1001.5 | 1013.6 | 1021.0 | 1051.7 | 1165.1 | 1269.3 | 1104.2 |
| 47.5° | 1233.2 | 1208.9 | 1113.9 | 1068.8 | 1091.8 | 1115.6 | 1136.0 | 1194.1 | 1327.4 | 1437.5 | 1207.6 |
| 50°   | 1295.6 | 1272.6 | 1181.2 | 1145.0 | 1196.8 | 1235.1 | 1268.2 | 1354.3 | 1502.0 | 1565.3 | 1280.1 |
| 52.5° | 1346.6 | 1331.4 | 1251.1 | 1232.3 | 1316.7 | 1373.0 | 1421.3 | 1524.5 | 1656.7 | 1669.4 | 1336.5 |
| 55°   | 1396.4 | 1385.4 | 1326.1 | 1336.0 | 1457.5 | 1534.1 | 1595.3 | 1705.0 | 1789.7 | 1756.1 | 1390.6 |
| 57.5° | 1453.4 | 1443.6 | 1411.6 | 1467.7 | 1642.7 | 1739.0 | 1805.7 | 1865.0 | 1907.0 | 1844.8 | 1441.5 |
| 60°   | 1511.8 | 1506.0 | 1506.8 | 1613.9 | 1855.2 | 1947.6 | 1984.5 | 1999.9 | 2022.2 | 1928.1 | 1444.5 |
| 62.5° | 1567.5 | 1578.4 | 1615.6 | 1776.5 | 2058.8 | 2129.8 | 2148.4 | 2163.6 | 2137.4 | 1941.4 | 1334.5 |
| 65°   | 1661.7 | 1679.6 | 1768.4 | 1994.3 | 2282.7 | 2358.7 | 2377.8 | 2325.8 | 2155.6 | 1770.2 | 1085.5 |
| 67.5° | 1707.7 | 1740.3 | 1898.8 | 2197.3 | 2499.9 | 2584.3 | 2577.2 | 2336.4 | 1934.4 | 1349.9 | 696.6  |
| 69°   | 1698.1 | 1732.9 | 1928.9 | 2259.5 | 2572.0 | 2648.6 | 2603.4 | 2207.2 | 1648.0 | 977.9  | 427.6  |
| 70°   | 1660.0 | 1695.2 | 1913.3 | 2257.2 | 2581.2 | 2641.9 | 2554.7 | 2047.8 | 1393.5 | 715.0  | 267.4  |
| 72.5° | 1386.4 | 1416.6 | 1698.7 | 2040.2 | 2377.8 | 2328.6 | 2137.2 | 1418.7 | 678.9  | 194.7  | 60.2   |
| 75°   | 853.4  | 870.2  | 1218.9 | 1537.0 | 1796.0 | 1669.4 | 1423.9 | 705.9  | 202.4  | 55.0   | 33.5   |
| 77.5° | 450.8  | 458.6  | 667.2  | 906.0  | 1138.5 | 942.1  | 729.9  | 275.4  | 93.2   | 34.5   | 24.1   |
| 80°   | 266.5  | 272.3  | 359.4  | 414.2  | 492.6  | 411.6  | 291.8  | 169.1  | 66.7   | 21.7   | 21.6   |
| 82.5° | 152.5  | 156.1  | 260.6  | 230.2  | 194.2  | 165.7  | 145.2  | 160.2  | 40.1   | 14.5   | 22.3   |
| 85°   | 56.0   | 56.9   | 146.6  | 175.2  | 115.5  | 68.8   | 72.1   | 132.8  | 10.7   | 9.2    | 17.5   |
| 87.5° | 26.1   | 25.5   | 75.4   | 107.3  | 67.5   | 43.6   | 56.2   | 29.2   | 4.3    | 5.9    | 4.8    |
| 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: P192929

CATALOG NUMBER: GAN-AF-01-LED-U-SL4-7030-600-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 481.5  | 481.5 | 481.5 | 481.5 | 481.5 | 481.5 | 481.5 | 481.5 | 481.5 | 481.5 | 481.5 |
| 2.5°  | 475.9  | 468.7 | 455.8 | 442.6 | 429.2 | 418.8 | 408.6 | 400.6 | 397.9 | 392.9 | 393.4 |
| 5°    | 461.2  | 448.2 | 421.3 | 394.1 | 365.7 | 342.3 | 320.2 | 302.3 | 293.7 | 284.9 | 284.9 |
| 7.5°  | 448.5  | 429.6 | 387.6 | 343.2 | 297.4 | 258.8 | 224.1 | 198.0 | 183.5 | 172.1 | 171.9 |
| 10°   | 443.8  | 418.0 | 359.4 | 295.9 | 231.9 | 179.4 | 138.1 | 111.7 | 98.0  | 89.3  | 88.8  |
| 12.5° | 445.9  | 414.0 | 337.6 | 252.1 | 171.9 | 115.3 | 80.0  | 63.0  | 57.2  | 54.5  | 54.5  |
| 15°   | 452.0  | 412.9 | 316.0 | 209.3 | 121.5 | 72.1  | 53.1  | 48.5  | 48.2  | 48.2  | 48.2  |
| 17.5° | 459.6  | 413.2 | 293.7 | 167.7 | 82.7  | 51.6  | 45.9  | 45.3  | 45.7  | 45.7  | 45.7  |
| 20°   | 467.2  | 413.4 | 269.8 | 129.2 | 58.4  | 44.9  | 43.1  | 42.9  | 43.3  | 43.3  | 43.6  |
| 22.5° | 476.6  | 414.4 | 245.8 | 96.4  | 48.2  | 42.4  | 41.1  | 41.1  | 41.3  | 41.3  | 41.1  |
| 25°   | 487.3  | 416.3 | 220.8 | 71.6  | 43.9  | 40.7  | 39.6  | 39.4  | 39.6  | 39.4  | 39.2  |
| 27.5° | 500.7  | 419.0 | 193.0 | 56.0  | 42.1  | 38.9  | 38.0  | 38.0  | 37.8  | 37.5  | 37.3  |
| 30°   | 517.7  | 422.1 | 161.7 | 47.5  | 40.1  | 37.3  | 36.5  | 36.3  | 36.0  | 35.7  | 35.7  |
| 32.5° | 543.3  | 428.9 | 130.9 | 43.1  | 38.0  | 35.3  | 34.5  | 34.5  | 34.2  | 33.8  | 33.6  |
| 35°   | 582.9  | 442.1 | 103.2 | 40.5  | 35.7  | 33.0  | 32.0  | 32.0  | 31.6  | 31.4  | 31.2  |
| 37.5° | 637.5  | 462.1 | 80.2  | 38.0  | 33.5  | 30.5  | 29.5  | 29.4  | 29.0  | 28.6  | 28.4  |
| 40°   | 710.3  | 487.1 | 63.2  | 35.7  | 31.0  | 28.0  | 27.2  | 26.9  | 26.1  | 25.5  | 25.5  |
| 42.5° | 801.5  | 515.4 | 51.3  | 33.3  | 28.4  | 25.6  | 25.1  | 24.6  | 23.2  | 22.6  | 22.4  |
| 45°   | 897.1  | 541.1 | 43.3  | 30.3  | 25.6  | 23.4  | 23.1  | 22.1  | 20.3  | 19.7  | 19.7  |
| 47.5° | 966.0  | 547.0 | 38.1  | 27.7  | 23.2  | 20.9  | 20.8  | 19.0  | 17.5  | 17.1  | 16.9  |
| 50°   | 1009.0 | 535.3 | 34.0  | 24.9  | 20.9  | 18.6  | 18.0  | 16.0  | 15.0  | 14.5  | 14.4  |
| 52.5° | 1038.0 | 514.4 | 30.5  | 22.6  | 18.8  | 16.5  | 15.2  | 13.6  | 12.9  | 12.4  | 12.4  |
| 55°   | 1061.1 | 484.8 | 27.1  | 20.5  | 17.1  | 14.7  | 12.9  | 11.7  | 10.9  | 10.6  | 10.6  |
| 57.5° | 1067.7 | 444.6 | 23.6  | 18.8  | 15.3  | 13.0  | 10.9  | 10.2  | 9.2   | 9.1   | 9.1   |
| 60°   | 1020.3 | 372.3 | 20.9  | 16.7  | 13.7  | 11.4  | 9.7   | 8.6   | 7.6   | 7.4   | 7.3   |
| 62.5° | 895.4  | 288.1 | 18.5  | 14.7  | 12.1  | 9.9   | 8.3   | 7.1   | 6.3   | 6.3   | 6.3   |
| 65°   | 683.0  | 193.2 | 16.2  | 12.9  | 10.6  | 8.3   | 7.1   | 5.8   | 5.4   | 5.4   | 5.6   |
| 67.5° | 408.8  | 105.1 | 13.7  | 10.9  | 9.1   | 6.9   | 5.9   | 5.0   | 4.8   | 5.0   | 5.0   |
| 69°   | 239.6  | 61.7  | 12.4  | 9.9   | 7.8   | 6.1   | 5.1   | 4.4   | 4.8   | 5.0   | 5.0   |
| 70°   | 147.9  | 41.6  | 11.5  | 8.8   | 7.1   | 5.6   | 4.8   | 4.3   | 4.6   | 4.8   | 4.8   |
| 72.5° | 41.3   | 21.6  | 9.2   | 6.9   | 5.8   | 4.6   | 3.9   | 3.9   | 4.4   | 4.6   | 4.6   |
| 75°   | 26.9   | 16.0  | 7.1   | 5.1   | 4.4   | 3.6   | 3.3   | 3.6   | 4.3   | 4.4   | 4.4   |
| 77.5° | 22.3   | 13.0  | 5.8   | 4.3   | 3.6   | 3.5   | 3.1   | 3.3   | 3.9   | 4.1   | 4.1   |
| 80°   | 20.3   | 9.2   | 4.6   | 3.9   | 3.3   | 3.1   | 2.8   | 2.7   | 3.5   | 3.6   | 3.6   |
| 82.5° | 19.3   | 7.3   | 4.1   | 3.5   | 3.1   | 2.7   | 2.5   | 2.7   | 3.1   | 3.3   | 3.5   |
| 85°   | 12.1   | 4.8   | 3.6   | 3.3   | 2.7   | 2.5   | 2.5   | 2.5   | 2.8   | 3.1   | 3.1   |
| 87.5° | 4.4    | 3.9   | 3.3   | 2.7   | 2.3   | 2.3   | 2.3   | 2.3   | 2.5   | 2.8   | 2.8   |
| 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)