

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: P269763

Luminaire Tested: **GAP-AF-01-LED-U-5MQ-7027-800**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P269763  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAP-AF-01-LED-U-5MQ-7027-800  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 4688.5 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

Input Watts (W): 44  
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

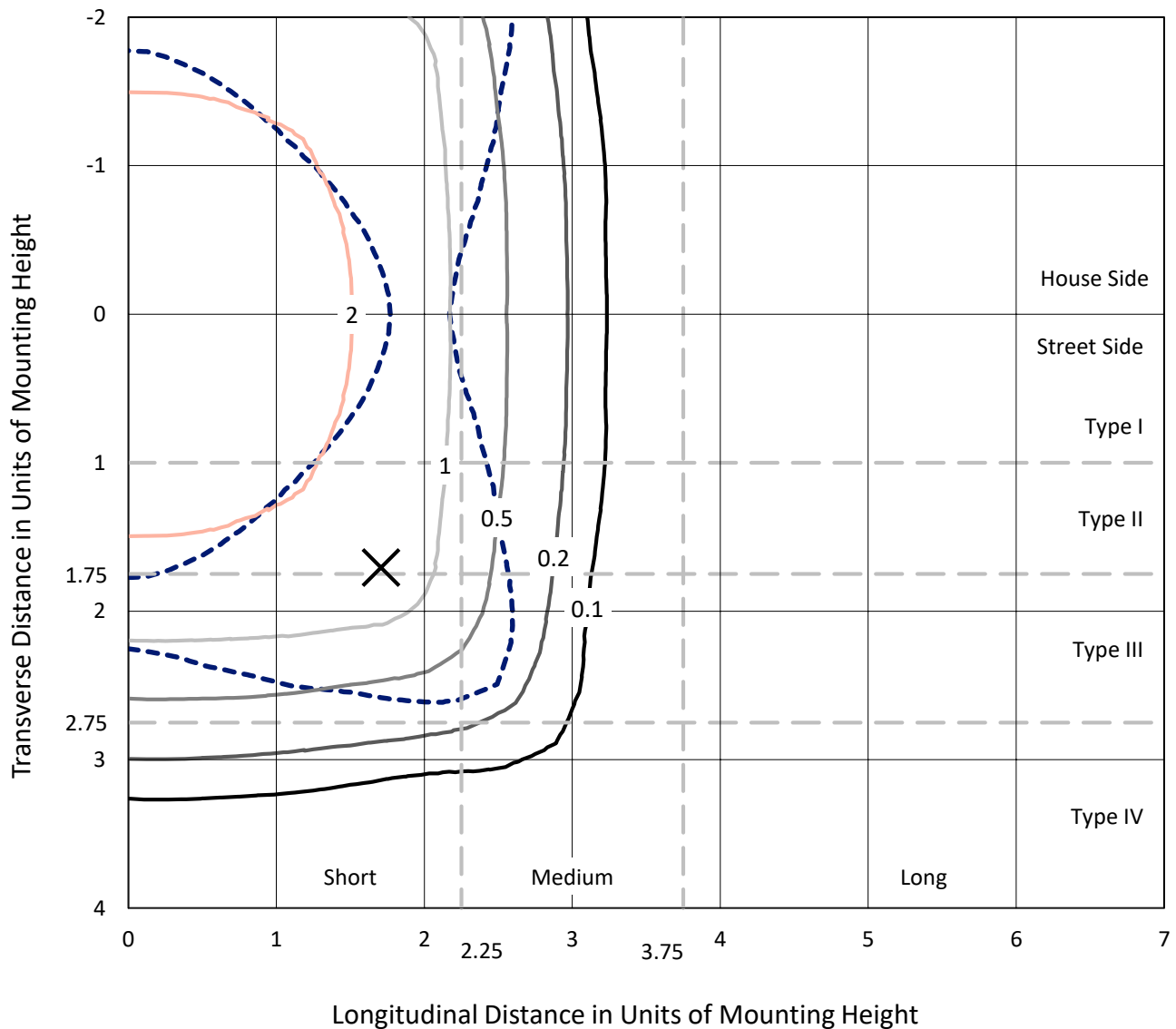


REPORT NUMBER: P269763

CATALOG NUMBER: GAP-AF-01-LED-U-5MQ-7027-800

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

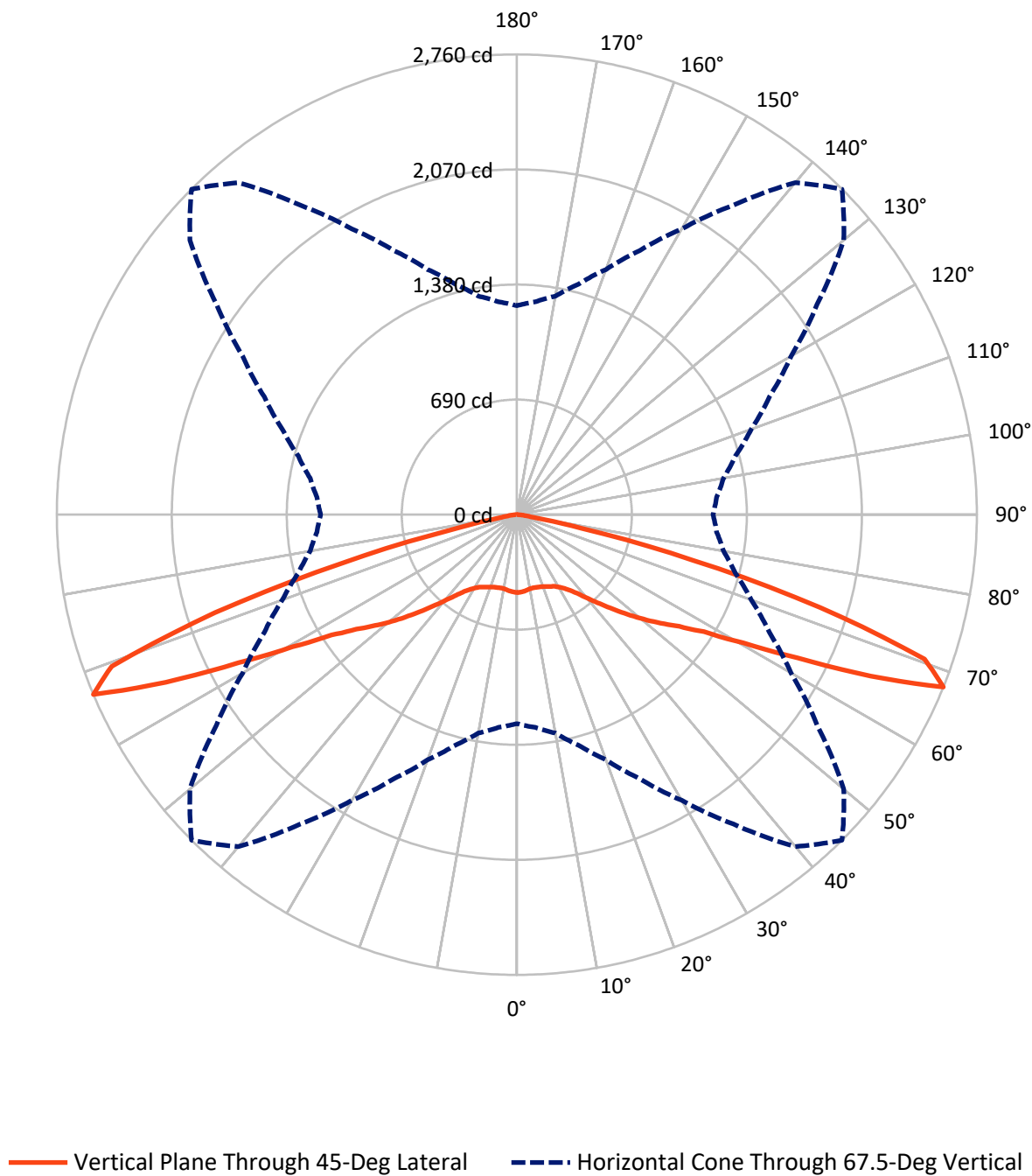


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P269763

CATALOG NUMBER: GAP-AF-01-LED-U-5MQ-7027-800

## Luminous Intensity Polar Plot



REPORT NUMBER: P269763

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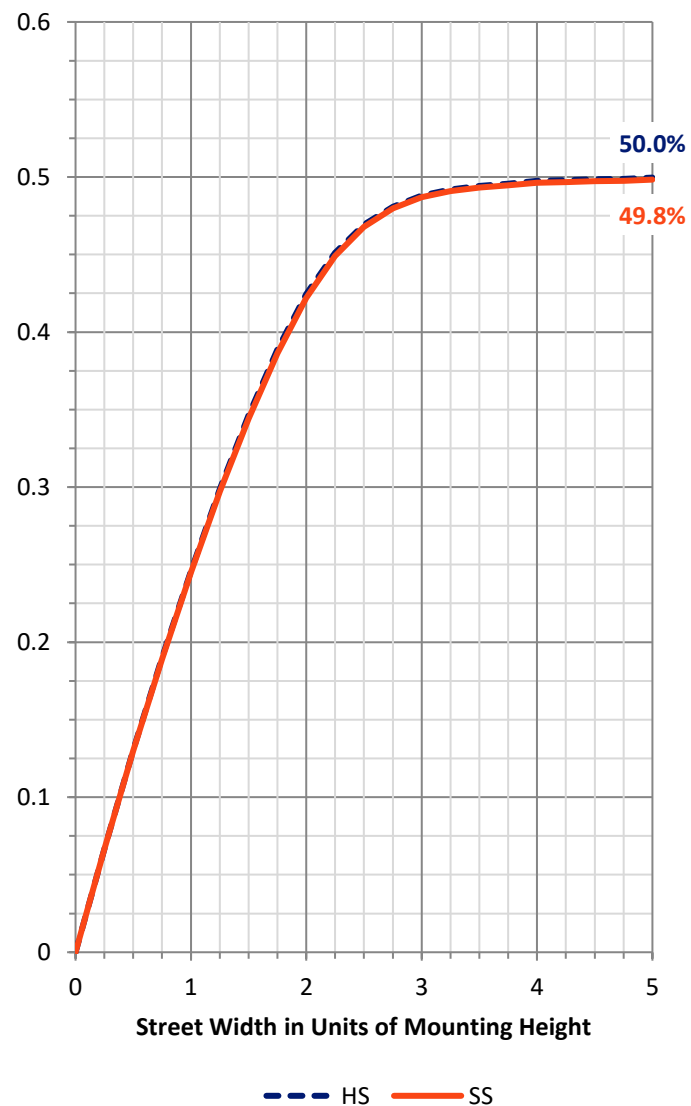
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2344.3   | 0.0    | 2344.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2344.3   | 0.0    | 2344.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4688.5   | 0.0    | 4688.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 43.7   | 0.9       |
| 10°-20°   | 126.9  | 2.7       |
| 20°-30°   | 215.7  | 4.6       |
| 30°-40°   | 352.6  | 7.5       |
| 40°-50°   | 629.5  | 13.4      |
| 50°-60°   | 1061.4 | 22.6      |
| 60°-70°   | 1647.2 | 35.1      |
| 70°-80°   | 578.7  | 12.3      |
| 80°-90°   | 32.7   | 0.7       |
| 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°    | 4688.5 | 100.0     |
| 0°-180°   | 4688.5 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P269763

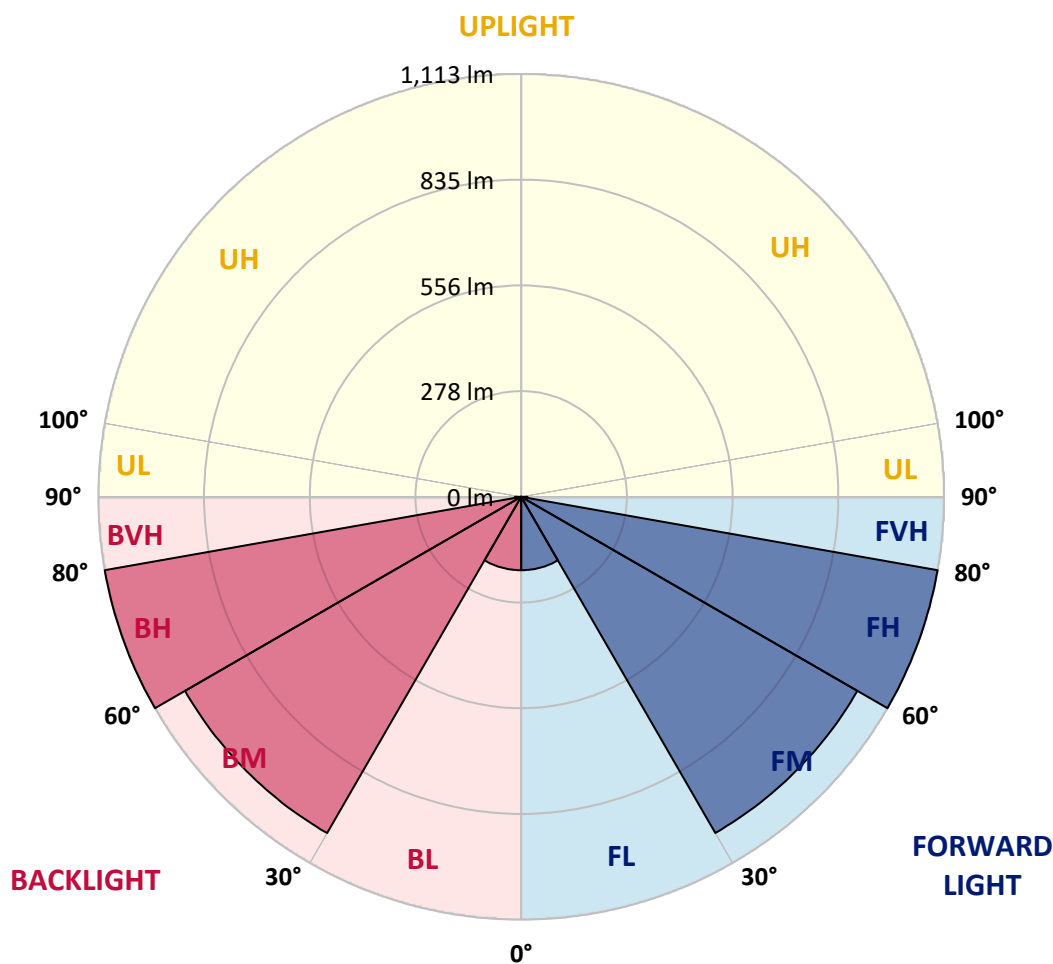
CATALOG NUMBER: GAP-AF-01-LED-U-5MQ-7027-800

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 193.2  | 4.1       |                         |      |         |
| FM   | (30°-60°)   | 1021.8 | 21.8      |                         |      |         |
| FH   | (60°-80°)   | 1112.9 | 23.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 16.3   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 193.2  | 4.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1021.8 | 21.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1112.9 | 23.7      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 16.3   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short





REPORT NUMBER: P269763

CATALOG NUMBER: GAP-AF-01-LED-U-5MQ-7027-800

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 467.2  | 467.2  | 467.2  | 467.2  | 467.2  | 467.2  | 467.2  | 467.2  | 467.2  | 467.2  | 467.2  |
| 2.5°  | 465.5  | 466.0  | 466.0  | 466.0  | 465.7  | 465.7  | 465.3  | 465.7  | 465.5  | 464.9  | 465.1  |
| 5°    | 461.5  | 462.1  | 462.1  | 461.9  | 462.4  | 462.3  | 461.5  | 462.1  | 461.9  | 461.4  | 461.5  |
| 7.5°  | 456.0  | 456.7  | 456.7  | 456.5  | 457.1  | 456.9  | 456.5  | 456.7  | 456.7  | 456.0  | 456.0  |
| 10°   | 449.8  | 450.2  | 450.2  | 450.1  | 451.0  | 451.0  | 450.9  | 451.5  | 451.7  | 451.0  | 450.6  |
| 12.5° | 443.9  | 444.7  | 444.7  | 445.5  | 446.5  | 446.9  | 448.1  | 449.0  | 449.8  | 449.5  | 448.8  |
| 15°   | 440.4  | 440.9  | 441.7  | 442.9  | 444.7  | 446.1  | 447.9  | 449.8  | 451.5  | 451.9  | 450.6  |
| 17.5° | 438.4  | 439.0  | 440.3  | 441.7  | 444.1  | 446.7  | 449.3  | 451.9  | 454.4  | 455.1  | 453.6  |
| 20°   | 437.7  | 438.2  | 439.5  | 442.0  | 445.2  | 449.2  | 452.7  | 455.8  | 459.0  | 460.1  | 459.0  |
| 22.5° | 439.0  | 439.8  | 441.3  | 444.4  | 448.8  | 453.6  | 458.0  | 462.1  | 466.1  | 468.0  | 466.6  |
| 25°   | 444.8  | 445.6  | 447.6  | 451.5  | 456.2  | 461.4  | 466.4  | 471.2  | 474.8  | 476.7  | 475.7  |
| 27.5° | 455.6  | 456.7  | 459.0  | 462.9  | 468.0  | 473.6  | 479.1  | 483.0  | 486.1  | 486.6  | 485.4  |
| 30°   | 471.8  | 474.1  | 476.9  | 481.2  | 487.3  | 492.0  | 497.4  | 500.9  | 504.6  | 504.6  | 503.5  |
| 32.5° | 497.0  | 499.4  | 502.4  | 506.5  | 511.2  | 516.3  | 521.1  | 524.2  | 528.1  | 528.3  | 525.7  |
| 35°   | 534.8  | 535.7  | 538.4  | 541.0  | 545.4  | 549.9  | 554.0  | 555.8  | 559.0  | 559.4  | 556.9  |
| 37.5° | 584.5  | 584.7  | 586.5  | 587.3  | 591.3  | 596.1  | 600.1  | 601.3  | 604.4  | 603.9  | 601.5  |
| 40°   | 642.5  | 643.5  | 644.3  | 645.5  | 649.7  | 654.3  | 658.5  | 659.1  | 662.4  | 661.7  | 658.6  |
| 42.5° | 709.7  | 710.0  | 713.7  | 715.6  | 719.5  | 721.9  | 727.1  | 727.6  | 731.6  | 729.9  | 726.4  |
| 45°   | 784.8  | 788.7  | 792.1  | 796.1  | 800.1  | 802.9  | 807.0  | 806.1  | 808.7  | 806.1  | 804.3  |
| 47.5° | 864.0  | 866.8  | 874.5  | 880.6  | 887.3  | 889.6  | 895.4  | 892.8  | 895.4  | 891.7  | 891.1  |
| 50°   | 951.0  | 956.1  | 962.8  | 969.6  | 976.7  | 980.6  | 988.1  | 984.9  | 988.3  | 984.9  | 982.9  |
| 52.5° | 1036.9 | 1038.3 | 1052.9 | 1063.0 | 1072.8 | 1077.3 | 1082.0 | 1080.4 | 1080.7 | 1080.4 | 1078.4 |
| 55°   | 1118.4 | 1121.4 | 1136.0 | 1149.9 | 1167.1 | 1179.8 | 1187.6 | 1186.8 | 1184.8 | 1182.9 | 1179.7 |
| 57.5° | 1210.2 | 1213.3 | 1230.0 | 1247.0 | 1266.7 | 1284.8 | 1300.6 | 1316.7 | 1323.1 | 1324.7 | 1317.6 |
| 60°   | 1334.4 | 1334.3 | 1356.6 | 1377.3 | 1405.4 | 1432.3 | 1466.8 | 1502.0 | 1542.3 | 1561.1 | 1536.2 |
| 62.5° | 1460.7 | 1465.9 | 1498.4 | 1534.9 | 1592.8 | 1649.0 | 1712.6 | 1775.1 | 1839.0 | 1890.9 | 1835.7 |
| 65°   | 1445.7 | 1465.6 | 1513.6 | 1596.6 | 1703.4 | 1830.1 | 1967.3 | 2112.4 | 2243.4 | 2333.5 | 2232.5 |
| 67.5° | 1253.0 | 1281.2 | 1330.1 | 1431.0 | 1564.5 | 1747.4 | 1977.6 | 2264.5 | 2598.2 | 2759.5 | 2559.5 |
| 70°   | 908.1  | 940.0  | 991.4  | 1090.0 | 1222.1 | 1395.8 | 1646.0 | 1990.6 | 2432.2 | 2594.7 | 2374.5 |
| 72.5° | 451.9  | 469.2  | 500.9  | 563.5  | 663.7  | 804.6  | 1031.6 | 1362.6 | 1753.3 | 1902.6 | 1701.4 |
| 75°   | 153.5  | 161.4  | 166.8  | 187.3  | 219.0  | 274.5  | 387.2  | 595.8  | 908.8  | 1089.5 | 895.9  |
| 77.5° | 88.7   | 88.8   | 92.4   | 96.2   | 101.6  | 107.5  | 122.7  | 161.1  | 278.6  | 395.7  | 288.3  |
| 80°   | 57.3   | 57.1   | 60.1   | 62.9   | 66.7   | 69.7   | 70.4   | 74.6   | 86.1   | 102.0  | 91.2   |
| 82.5° | 29.7   | 33.4   | 40.2   | 43.7   | 50.7   | 51.9   | 50.2   | 48.7   | 51.6   | 53.4   | 54.7   |
| 85°   | 16.3   | 14.3   | 21.3   | 27.6   | 30.6   | 31.0   | 31.0   | 29.4   | 30.5   | 29.7   | 32.3   |
| 87.5° | 7.5    | 6.8    | 8.4    | 13.6   | 14.5   | 12.2   | 12.9   | 11.4   | 8.2    | 7.9    | 9.1    |
| 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: P269763

CATALOG NUMBER: GAP-AF-01-LED-U-5MQ-7027-800

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 467.2  | 467.2  | 467.2  | 467.2  | 467.2  | 467.2  | 467.2  | 467.2  |
| 2.5°  | 465.1  | 465.3  | 465.3  | 466.0  | 466.1  | 466.6  | 466.9  | 467.2  |
| 5°    | 461.4  | 462.1  | 461.5  | 462.3  | 462.3  | 462.6  | 462.6  | 462.9  |
| 7.5°  | 456.0  | 456.7  | 456.7  | 456.7  | 456.5  | 457.1  | 457.1  | 457.1  |
| 10°   | 450.4  | 450.9  | 450.6  | 450.2  | 449.8  | 450.4  | 450.2  | 450.1  |
| 12.5° | 448.8  | 447.6  | 446.7  | 446.3  | 445.5  | 445.6  | 445.0  | 445.0  |
| 15°   | 449.8  | 447.9  | 446.3  | 445.6  | 444.8  | 444.4  | 443.9  | 444.1  |
| 17.5° | 452.6  | 450.2  | 448.3  | 447.1  | 446.1  | 445.5  | 444.7  | 444.8  |
| 20°   | 457.5  | 454.7  | 451.9  | 449.8  | 447.9  | 446.7  | 446.1  | 445.9  |
| 22.5° | 464.9  | 460.8  | 456.7  | 453.5  | 450.9  | 449.3  | 448.8  | 448.3  |
| 25°   | 473.2  | 468.7  | 464.1  | 460.3  | 457.7  | 455.8  | 454.5  | 454.5  |
| 27.5° | 483.8  | 480.1  | 475.8  | 471.5  | 469.2  | 467.2  | 466.4  | 466.0  |
| 30°   | 501.6  | 498.1  | 494.5  | 490.6  | 487.5  | 485.5  | 484.0  | 482.7  |
| 32.5° | 524.2  | 521.3  | 518.5  | 515.5  | 512.8  | 510.1  | 507.7  | 506.6  |
| 35°   | 556.1  | 554.0  | 552.0  | 548.5  | 547.4  | 545.9  | 544.6  | 543.6  |
| 37.5° | 600.1  | 599.2  | 599.2  | 595.5  | 594.7  | 594.0  | 592.7  | 592.9  |
| 40°   | 657.7  | 658.6  | 657.6  | 656.3  | 655.7  | 654.0  | 654.0  | 655.5  |
| 42.5° | 726.2  | 726.8  | 729.2  | 727.1  | 729.5  | 727.3  | 726.0  | 727.1  |
| 45°   | 805.5  | 807.8  | 812.6  | 810.5  | 812.0  | 808.4  | 803.9  | 804.1  |
| 47.5° | 894.6  | 896.8  | 898.7  | 897.1  | 897.3  | 891.4  | 885.3  | 883.8  |
| 50°   | 987.1  | 988.0  | 989.0  | 986.9  | 987.2  | 980.6  | 973.8  | 973.9  |
| 52.5° | 1078.4 | 1082.5 | 1086.9 | 1081.1 | 1079.9 | 1072.2 | 1062.5 | 1058.7 |
| 55°   | 1183.1 | 1188.8 | 1184.0 | 1173.7 | 1163.7 | 1153.6 | 1140.8 | 1138.6 |
| 57.5° | 1312.1 | 1302.2 | 1286.6 | 1267.4 | 1253.3 | 1239.1 | 1226.1 | 1220.7 |
| 60°   | 1491.4 | 1454.0 | 1426.1 | 1397.7 | 1379.6 | 1362.2 | 1345.2 | 1342.6 |
| 62.5° | 1745.0 | 1680.5 | 1624.7 | 1565.7 | 1517.6 | 1480.1 | 1450.3 | 1441.8 |
| 65°   | 2062.8 | 1910.3 | 1778.1 | 1654.8 | 1547.7 | 1466.8 | 1415.9 | 1393.5 |
| 67.5° | 2199.5 | 1898.5 | 1671.8 | 1496.8 | 1356.6 | 1258.7 | 1203.8 | 1176.4 |
| 70°   | 1932.8 | 1574.4 | 1328.0 | 1152.6 | 1025.1 | 920.7  | 870.8  | 841.5  |
| 72.5° | 1329.8 | 1001.5 | 791.9  | 646.4  | 544.5  | 457.1  | 422.7  | 420.0  |
| 75°   | 597.1  | 395.4  | 272.5  | 210.1  | 176.7  | 153.7  | 146.7  | 141.3  |
| 77.5° | 167.2  | 123.5  | 110.2  | 103.0  | 96.2   | 88.2   | 85.2   | 85.8   |
| 80°   | 81.2   | 76.7   | 73.8   | 69.2   | 62.9   | 56.2   | 53.3   | 54.5   |
| 82.5° | 53.9   | 53.3   | 55.2   | 51.9   | 42.8   | 36.4   | 30.6   | 28.0   |
| 85°   | 32.8   | 33.1   | 33.9   | 34.0   | 28.8   | 20.2   | 13.8   | 15.5   |
| 87.5° | 12.9   | 14.9   | 16.2   | 16.8   | 15.7   | 9.7    | 7.7    | 7.9    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)