

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: P200555

Luminaire Tested: **GAP-AF-01-LED-U-5WQ-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200555  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
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-5WQ-8030-600  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3600 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - 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

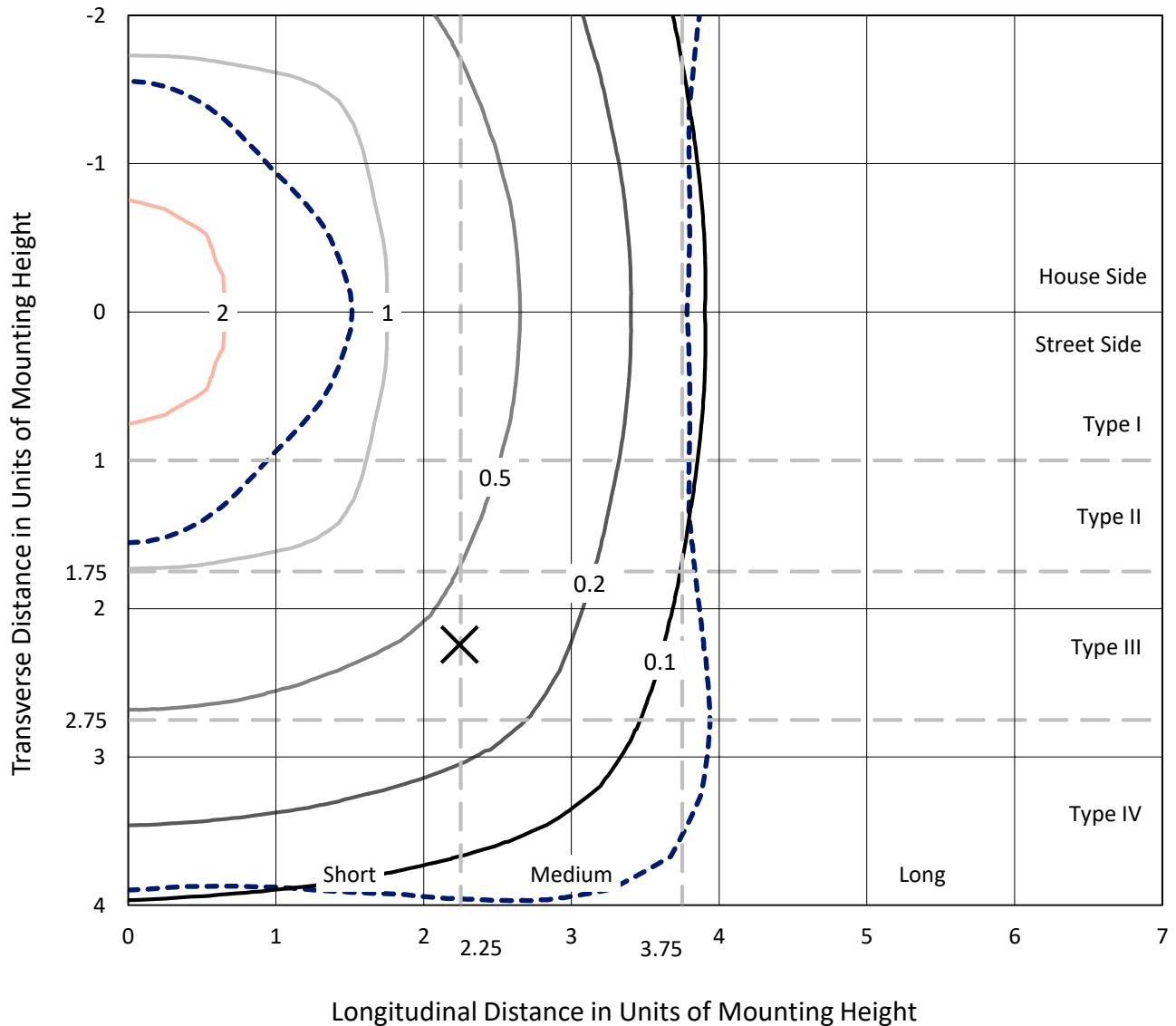


REPORT NUMBER: P200555

CATALOG NUMBER: GAP-AF-01-LED-U-5WQ-8030-600

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

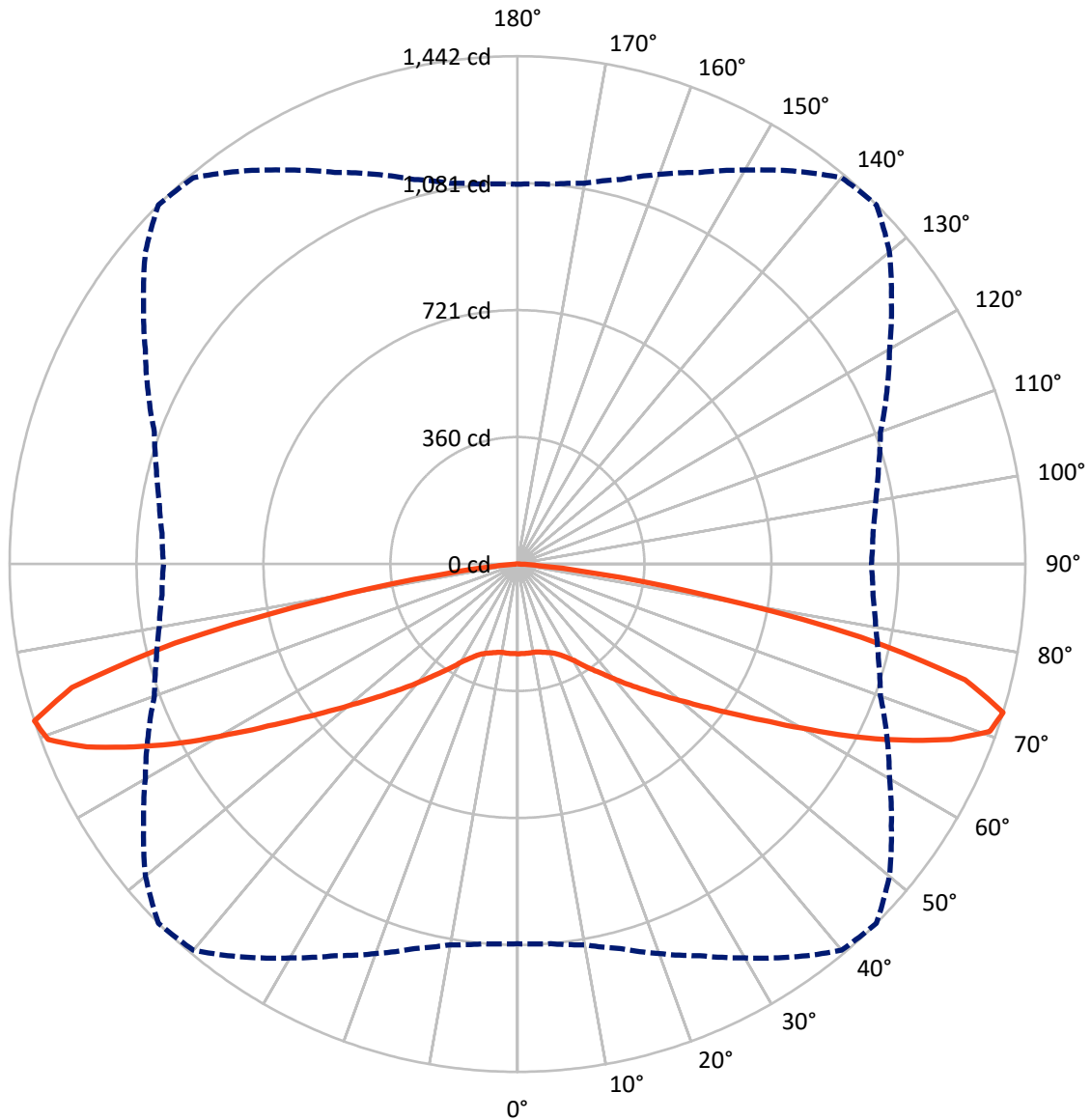


Based on 10 foot mounting height. Maximum calculated value = 2.5 fc  
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P200555

CATALOG NUMBER: GAP-AF-01-LED-U-5WQ-8030-600

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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CATALOG NUMBER: GAP-AF-01-LED-U-5WQ-8030-600

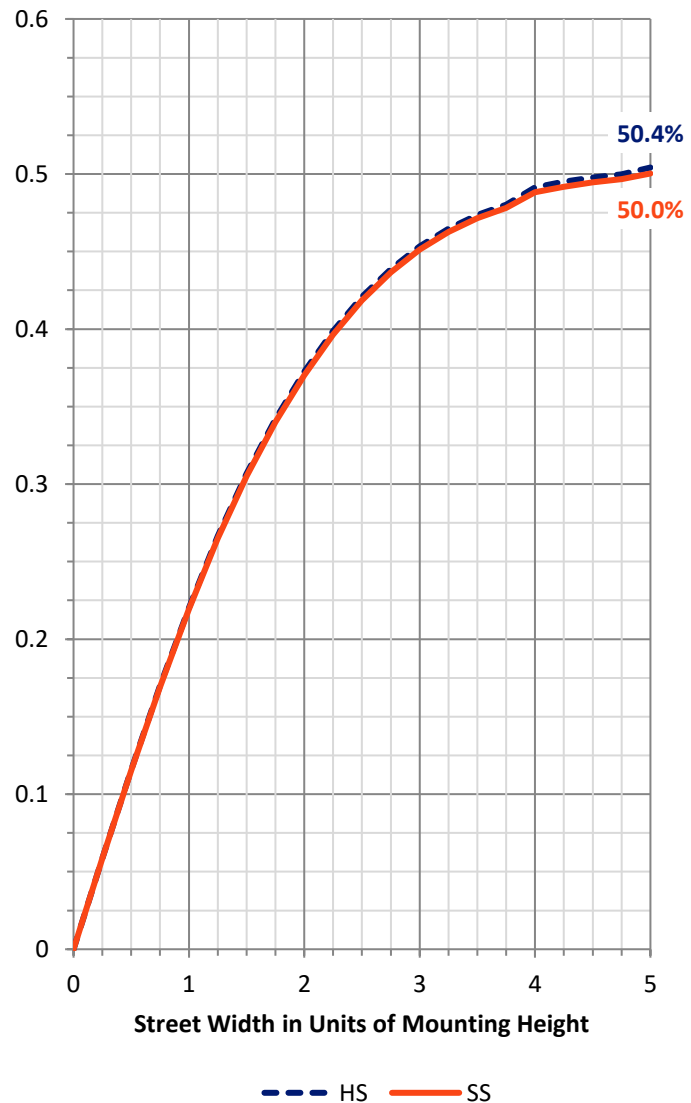
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1800.0   | 0.0    | 1800.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1800.0   | 0.0    | 1800.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 3600.0   | 0.0    | 3600.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 24.3   | 0.7       |
| 10°-20°   | 73.9   | 2.1       |
| 20°-30°   | 135.1  | 3.8       |
| 30°-40°   | 233.0  | 6.5       |
| 40°-50°   | 398.2  | 11.1      |
| 50°-60°   | 645.5  | 17.9      |
| 60°-70°   | 1070.8 | 29.7      |
| 70°-80°   | 943.1  | 26.2      |
| 80°-90°   | 76.0   | 2.1       |
| 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°    | 3600.0 | 100.0     |
| 0°-180°   | 3600.0 | 100.0     |



REPORT NUMBER: P200555

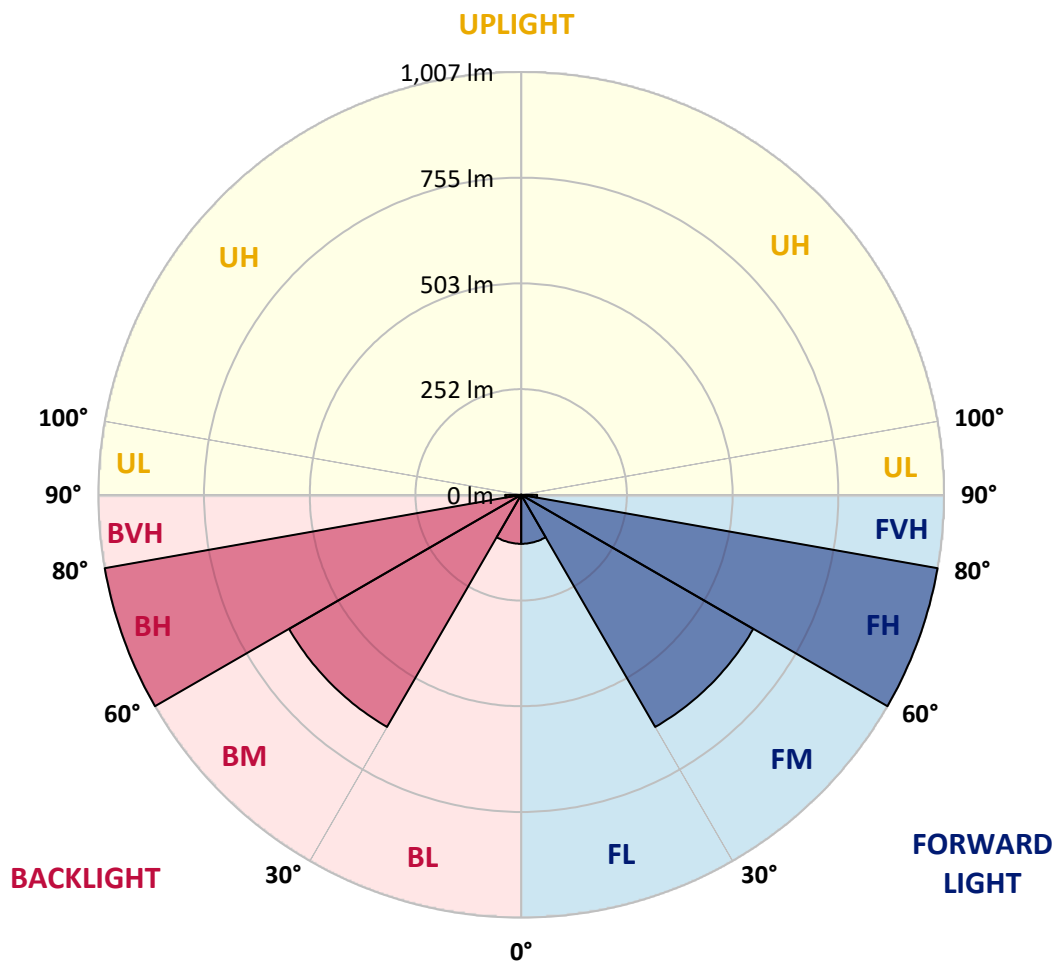
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 116.7  | 3.2       |                         |      |         |
| FM (30°-60°)   | 638.3  | 17.7      |                         |      |         |
| FH (60°-80°)   | 1007.0 | 28.0      |                         |      | G1/1800 |
| FVH (80°-90°)  | 38.0   | 1.1       |                         |      | G1/100  |
| BL (0°-30°)    | 116.7  | 3.2       | B1/500                  |      |         |
| BM (30°-60°)   | 638.3  | 17.7      | B1/1000                 |      |         |
| BH (60°-80°)   | 1007.0 | 28.0      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 38.0   | 1.1       |                         |      | 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: P200555

CATALOG NUMBER: GAP-AF-01-LED-U-5WQ-8030-600

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 254.9  | 254.9  | 254.9  | 254.9  | 254.9  | 254.9  | 254.9  | 254.9  | 254.9  | 254.9  | 254.9  |
| 2.5°  | 254.9  | 255.1  | 255.3  | 255.1  | 255.1  | 254.9  | 254.8  | 254.9  | 254.8  | 254.4  | 254.6  |
| 5°    | 255.8  | 256.1  | 256.1  | 255.8  | 255.9  | 255.8  | 255.4  | 255.6  | 255.3  | 254.8  | 254.8  |
| 7.5°  | 256.8  | 256.9  | 256.9  | 256.6  | 256.8  | 256.4  | 256.1  | 255.9  | 255.6  | 254.9  | 254.4  |
| 10°   | 258.2  | 258.4  | 258.2  | 257.9  | 257.9  | 257.4  | 256.6  | 256.3  | 255.6  | 254.6  | 254.1  |
| 12.5° | 259.9  | 260.1  | 259.9  | 259.6  | 259.4  | 258.6  | 257.9  | 257.4  | 256.9  | 256.1  | 255.3  |
| 15°   | 262.2  | 262.5  | 262.2  | 261.5  | 261.0  | 260.4  | 260.1  | 260.2  | 260.4  | 259.7  | 258.9  |
| 17.5° | 266.5  | 266.7  | 266.2  | 264.7  | 264.0  | 263.4  | 263.4  | 263.7  | 264.2  | 263.9  | 263.0  |
| 20°   | 274.4  | 273.9  | 272.8  | 271.0  | 270.1  | 269.0  | 268.8  | 269.0  | 269.0  | 268.8  | 268.1  |
| 22.5° | 284.3  | 284.0  | 282.5  | 280.2  | 279.0  | 278.4  | 277.4  | 276.6  | 276.4  | 275.9  | 275.2  |
| 25°   | 296.2  | 296.0  | 294.2  | 292.3  | 291.4  | 290.6  | 289.8  | 288.6  | 287.6  | 286.5  | 285.8  |
| 27.5° | 311.4  | 310.7  | 308.1  | 307.1  | 306.0  | 305.5  | 304.3  | 303.0  | 302.2  | 300.7  | 299.8  |
| 30°   | 328.1  | 328.1  | 325.9  | 325.6  | 325.6  | 324.4  | 323.1  | 320.8  | 319.3  | 317.8  | 317.3  |
| 32.5° | 344.8  | 344.9  | 342.8  | 343.4  | 343.9  | 344.8  | 345.1  | 344.3  | 343.3  | 343.1  | 342.1  |
| 35°   | 368.9  | 368.2  | 366.1  | 366.6  | 366.4  | 366.2  | 366.2  | 368.0  | 368.4  | 368.7  | 366.7  |
| 37.5° | 398.8  | 398.8  | 396.6  | 396.6  | 395.6  | 394.6  | 393.3  | 394.5  | 396.3  | 396.8  | 395.4  |
| 40°   | 432.9  | 434.1  | 431.4  | 431.3  | 431.6  | 428.5  | 427.0  | 428.8  | 430.0  | 431.9  | 430.5  |
| 42.5° | 473.2  | 472.4  | 469.7  | 469.4  | 467.6  | 466.6  | 465.3  | 466.8  | 468.6  | 469.9  | 470.4  |
| 45°   | 511.9  | 511.2  | 508.2  | 508.2  | 506.4  | 505.6  | 506.2  | 508.7  | 509.5  | 511.4  | 513.2  |
| 47.5° | 550.0  | 549.2  | 547.2  | 548.0  | 548.2  | 549.7  | 551.8  | 554.1  | 556.4  | 558.9  | 559.7  |
| 50°   | 589.0  | 589.1  | 587.0  | 589.0  | 591.4  | 595.6  | 601.3  | 605.1  | 609.9  | 613.1  | 614.1  |
| 52.5° | 624.5  | 625.1  | 627.4  | 632.1  | 637.0  | 645.1  | 655.0  | 664.3  | 672.2  | 677.5  | 677.1  |
| 55°   | 667.1  | 668.1  | 673.7  | 681.6  | 689.7  | 701.9  | 716.6  | 732.9  | 746.1  | 753.7  | 749.0  |
| 57.5° | 721.5  | 723.7  | 730.0  | 740.7  | 752.8  | 768.6  | 788.7  | 813.4  | 833.8  | 844.1  | 836.3  |
| 60°   | 796.3  | 797.7  | 805.3  | 817.1  | 831.7  | 851.3  | 878.2  | 911.3  | 940.2  | 953.7  | 944.8  |
| 62.5° | 894.9  | 897.4  | 903.5  | 915.6  | 930.4  | 952.7  | 985.6  | 1026.8 | 1062.8 | 1081.7 | 1061.5 |
| 65°   | 1012.6 | 1020.6 | 1025.7 | 1037.9 | 1051.8 | 1075.4 | 1109.7 | 1154.0 | 1192.6 | 1205.0 | 1181.7 |
| 67.5° | 1129.2 | 1136.1 | 1145.1 | 1159.1 | 1173.1 | 1199.7 | 1231.6 | 1274.5 | 1316.9 | 1328.2 | 1292.0 |
| 70°   | 1180.2 | 1184.2 | 1198.1 | 1217.2 | 1244.1 | 1275.5 | 1312.3 | 1360.5 | 1413.0 | 1422.3 | 1376.4 |
| 72.5° | 1078.0 | 1082.0 | 1097.5 | 1130.0 | 1176.9 | 1226.8 | 1291.0 | 1361.9 | 1431.2 | 1441.6 | 1378.4 |
| 75°   | 815.3  | 808.9  | 831.8  | 874.9  | 938.2  | 1007.7 | 1097.5 | 1199.1 | 1299.3 | 1312.3 | 1236.9 |
| 77.5° | 421.4  | 420.5  | 437.9  | 491.4  | 566.8  | 645.9  | 744.8  | 859.6  | 957.7  | 997.3  | 935.9  |
| 80°   | 118.7  | 120.0  | 128.3  | 154.9  | 199.0  | 256.1  | 333.4  | 440.9  | 521.1  | 562.0  | 527.7  |
| 82.5° | 46.6   | 50.2   | 53.3   | 58.3   | 64.1   | 72.5   | 96.8   | 144.0  | 193.2  | 230.8  | 189.1  |
| 85°   | 16.7   | 17.8   | 25.3   | 29.9   | 30.4   | 32.0   | 36.5   | 42.6   | 51.4   | 61.3   | 50.4   |
| 87.5° | 6.3    | 6.9    | 8.1    | 13.4   | 13.2   | 12.1   | 14.7   | 15.4   | 11.6   | 10.6   | 13.0   |
| 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: P200555

CATALOG NUMBER: GAP-AF-01-LED-U-5WQ-8030-600

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 254.9  | 254.9  | 254.9  | 254.9  | 254.9  | 254.9  | 254.9  | 254.9  |
| 2.5°  | 254.3  | 254.4  | 254.4  | 254.6  | 254.8  | 254.8  | 255.1  | 255.1  |
| 5°    | 254.4  | 254.4  | 254.1  | 254.3  | 254.1  | 254.1  | 254.3  | 254.3  |
| 7.5°  | 254.1  | 253.9  | 253.6  | 253.4  | 253.1  | 253.1  | 253.1  | 253.1  |
| 10°   | 253.6  | 253.4  | 253.1  | 253.0  | 252.8  | 252.8  | 252.8  | 252.8  |
| 12.5° | 254.9  | 254.4  | 254.1  | 253.9  | 253.9  | 253.9  | 253.9  | 253.9  |
| 15°   | 258.4  | 257.2  | 256.4  | 256.4  | 256.6  | 256.9  | 256.9  | 257.2  |
| 17.5° | 262.7  | 261.4  | 260.5  | 259.9  | 260.2  | 260.7  | 261.0  | 261.4  |
| 20°   | 267.8  | 267.2  | 266.0  | 265.3  | 265.3  | 266.0  | 266.3  | 266.5  |
| 22.5° | 274.9  | 274.4  | 273.9  | 273.1  | 273.1  | 273.4  | 274.1  | 274.1  |
| 25°   | 285.5  | 285.2  | 284.8  | 284.2  | 284.0  | 284.0  | 284.3  | 284.7  |
| 27.5° | 298.7  | 298.9  | 298.5  | 298.4  | 297.9  | 297.7  | 298.2  | 298.0  |
| 30°   | 316.4  | 317.2  | 318.0  | 317.3  | 316.5  | 316.0  | 315.5  | 314.9  |
| 32.5° | 340.3  | 339.3  | 338.6  | 337.5  | 336.0  | 334.7  | 333.7  | 332.5  |
| 35°   | 362.9  | 361.3  | 360.6  | 361.6  | 361.4  | 360.6  | 359.5  | 358.5  |
| 37.5° | 390.7  | 390.3  | 390.7  | 392.5  | 392.1  | 393.0  | 390.7  | 390.5  |
| 40°   | 425.7  | 426.0  | 428.3  | 430.5  | 431.6  | 432.8  | 431.4  | 430.1  |
| 42.5° | 466.3  | 466.1  | 466.9  | 469.9  | 471.9  | 473.2  | 470.4  | 470.1  |
| 45°   | 509.2  | 508.1  | 508.7  | 511.2  | 513.2  | 514.7  | 511.5  | 511.5  |
| 47.5° | 556.4  | 554.5  | 552.3  | 555.1  | 556.3  | 557.3  | 554.8  | 554.0  |
| 50°   | 609.1  | 605.0  | 600.4  | 601.5  | 601.5  | 601.2  | 598.0  | 597.9  |
| 52.5° | 669.5  | 661.9  | 653.5  | 650.4  | 648.6  | 646.6  | 641.1  | 638.5  |
| 55°   | 739.0  | 727.7  | 714.4  | 706.4  | 702.1  | 696.6  | 687.5  | 685.1  |
| 57.5° | 820.3  | 802.5  | 779.7  | 769.8  | 760.2  | 751.3  | 741.2  | 738.4  |
| 60°   | 916.5  | 890.3  | 860.1  | 841.8  | 831.3  | 822.8  | 812.4  | 811.9  |
| 62.5° | 1023.9 | 982.4  | 948.2  | 931.7  | 924.1  | 916.5  | 906.6  | 908.0  |
| 65°   | 1133.0 | 1089.8 | 1057.7 | 1044.3 | 1037.2 | 1031.0 | 1021.1 | 1022.6 |
| 67.5° | 1240.7 | 1200.9 | 1165.7 | 1152.0 | 1144.1 | 1136.1 | 1127.2 | 1128.7 |
| 70°   | 1317.9 | 1268.6 | 1228.9 | 1198.6 | 1179.6 | 1158.1 | 1144.2 | 1140.8 |
| 72.5° | 1295.8 | 1219.7 | 1156.8 | 1096.5 | 1061.2 | 1032.5 | 1013.0 | 1004.6 |
| 75°   | 1121.5 | 1017.4 | 936.5  | 862.6  | 820.9  | 787.1  | 762.5  | 747.1  |
| 77.5° | 832.8  | 715.9  | 620.3  | 535.1  | 467.8  | 422.5  | 390.7  | 370.0  |
| 80°   | 455.9  | 346.7  | 253.4  | 178.2  | 130.9  | 108.8  | 96.1   | 90.0   |
| 82.5° | 142.0  | 91.6   | 67.5   | 58.3   | 54.2   | 51.8   | 48.0   | 41.9   |
| 85°   | 45.2   | 39.6   | 36.8   | 35.2   | 33.5   | 29.2   | 20.1   | 18.3   |
| 87.5° | 17.5   | 18.0   | 17.8   | 16.8   | 17.2   | 12.4   | 9.9    | 8.8    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)