

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: P199979

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199979  
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: GAP-AF-01-LED-U-SL4-7030-600-HSS  
Description: GALLEON PEDESTRIAN 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: 3288.7 lumens  
Efficiency: N/A  
Efficacy: 96.7 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

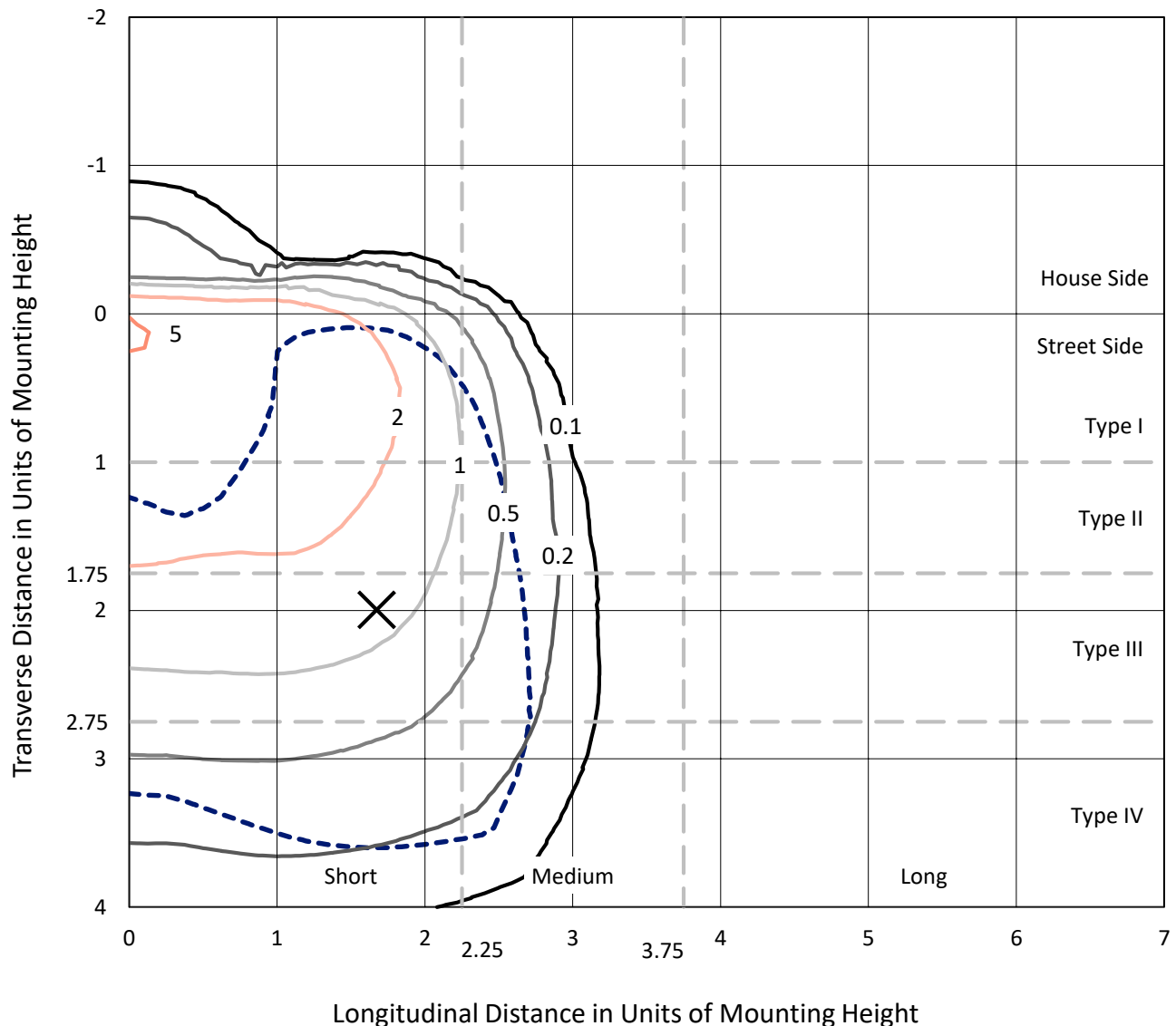


REPORT NUMBER: P199979

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

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

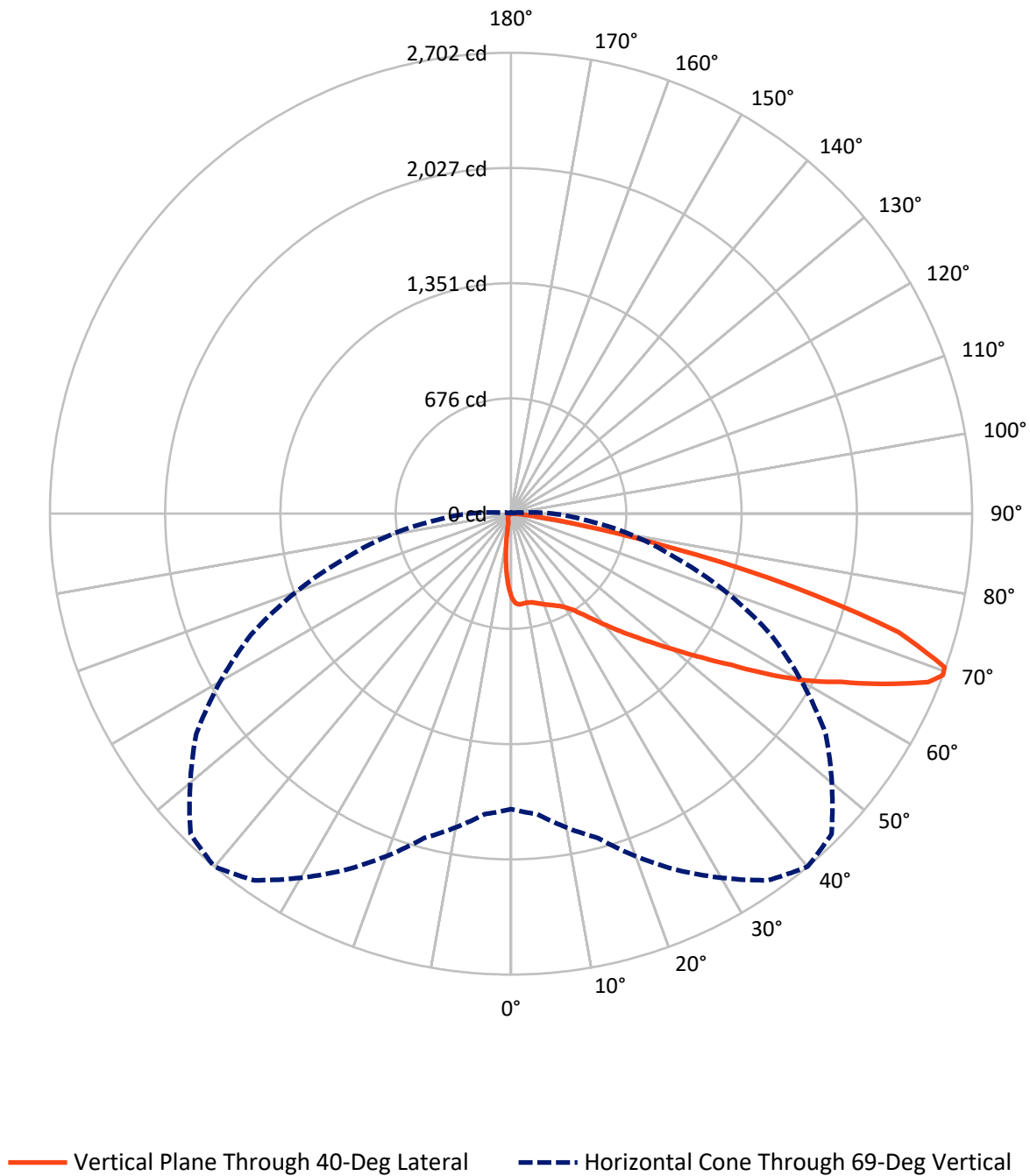


Based on 10 foot mounting height. Maximum calculated value = 5.4 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P199979

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

## Luminous Intensity Polar Plot



REPORT NUMBER: P199979

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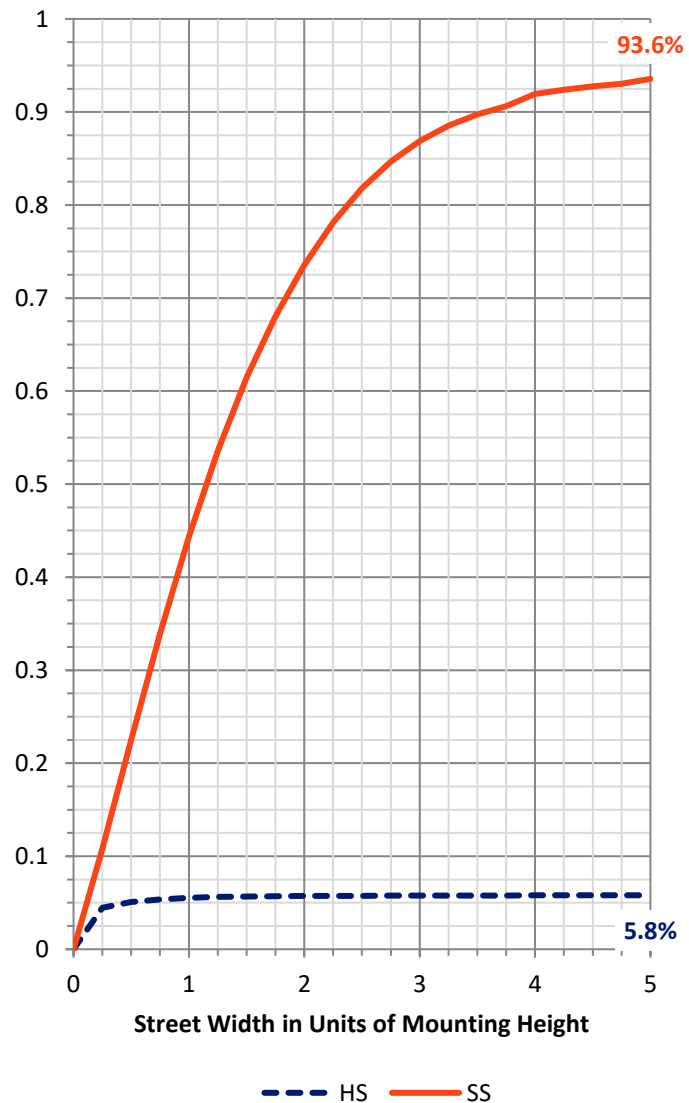
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 192.4    | 0.0    | 192.4  |
|                    | % Fixture | 5.9      | 0.0    | 5.9    |
| <b>Street Side</b> | Lumens    | 3096.3   | 0.0    | 3096.3 |
|                    | % Fixture | 94.1     | 0.0    | 94.1   |
| <b>Total</b>       | Lumens    | 3288.7   | 0.0    | 3288.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 39.8   | 1.2       |
| 10°-20°   | 98.0   | 3.0       |
| 20°-30°   | 165.0  | 5.0       |
| 30°-40°   | 270.1  | 8.2       |
| 40°-50°   | 467.7  | 14.2      |
| 50°-60°   | 736.7  | 22.4      |
| 60°-70°   | 962.1  | 29.3      |
| 70°-80°   | 495.6  | 15.1      |
| 80°-90°   | 53.6   | 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°    | 3288.7 | 100.0     |
| 0°-180°   | 3288.7 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P199979

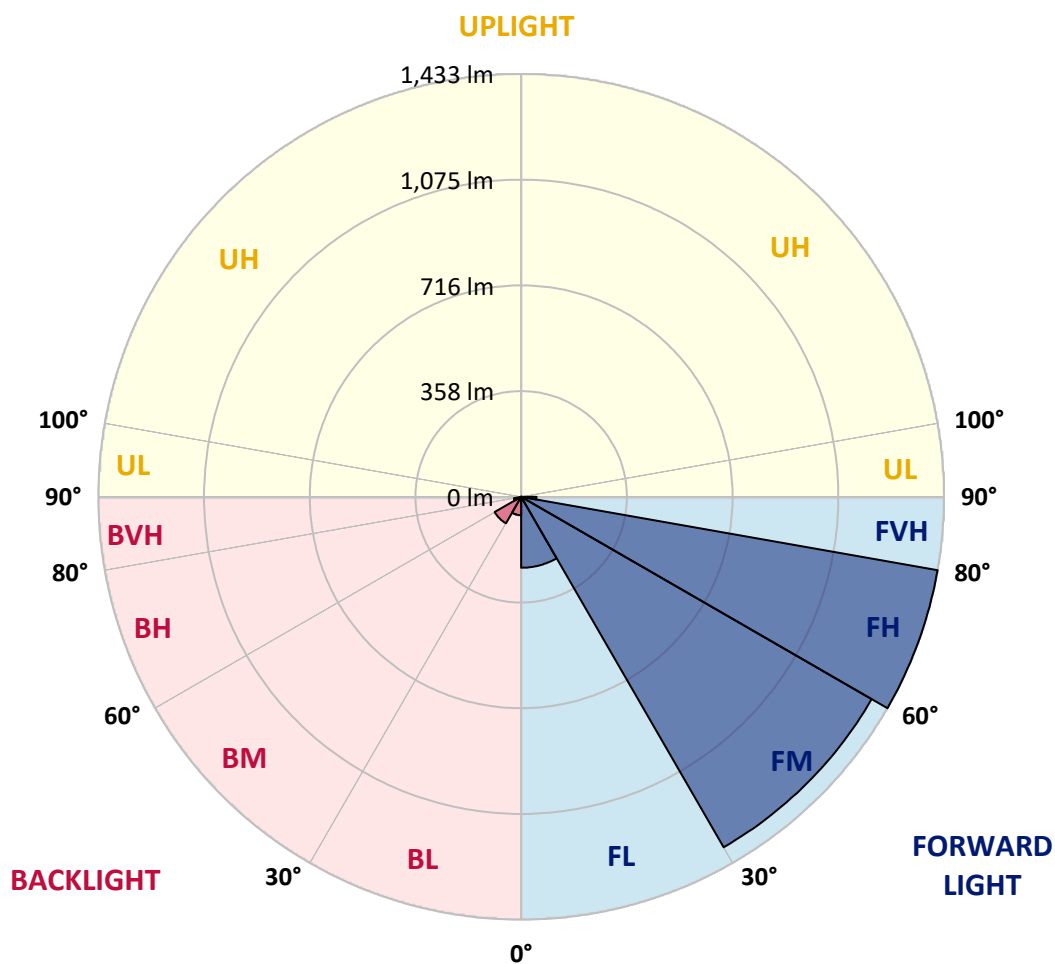
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 240.5  | 7.3       |                         |      |         |
| FM   | (30°-60°)   | 1371.2 | 41.7      |                         |      |         |
| FH   | (60°-80°)   | 1432.7 | 43.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 51.9   | 1.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 62.3   | 1.9       | B0/110                  |      |         |
| BM   | (30°-60°)   | 103.4  | 3.1       | B0/220                  |      |         |
| BH   | (60°-80°)   | 25.0   | 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: P199979

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

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 40°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 491.3  | 491.3  | 491.3  | 491.3  | 491.3  | 491.3  | 491.3  | 491.3  | 491.3  | 491.3  | 491.3  |
| 2.5°  | 539.5  | 536.6  | 534.9  | 532.4  | 529.5  | 526.9  | 526.0  | 518.8  | 511.9  | 502.5  | 491.7  |
| 5°    | 549.5  | 548.5  | 545.4  | 542.3  | 538.7  | 534.9  | 532.6  | 524.0  | 514.3  | 500.5  | 481.8  |
| 7.5°  | 550.4  | 549.2  | 545.4  | 541.1  | 536.1  | 531.4  | 527.7  | 519.2  | 510.1  | 496.2  | 473.3  |
| 10°   | 548.9  | 547.5  | 544.5  | 539.8  | 533.8  | 529.4  | 525.6  | 517.4  | 509.8  | 497.2  | 471.8  |
| 12.5° | 547.2  | 545.8  | 544.4  | 542.0  | 536.8  | 533.6  | 530.5  | 522.7  | 515.8  | 505.3  | 477.5  |
| 15°   | 548.9  | 548.2  | 549.7  | 548.7  | 545.8  | 543.0  | 539.8  | 532.8  | 526.6  | 517.8  | 487.9  |
| 17.5° | 556.3  | 556.3  | 561.3  | 561.8  | 559.1  | 555.1  | 550.6  | 543.6  | 538.3  | 530.9  | 500.2  |
| 20°   | 573.7  | 573.2  | 579.4  | 580.6  | 573.9  | 567.9  | 561.3  | 552.7  | 548.5  | 543.8  | 512.3  |
| 22.5° | 603.7  | 600.9  | 604.6  | 603.5  | 590.4  | 581.0  | 572.7  | 562.2  | 560.1  | 557.9  | 525.7  |
| 25°   | 642.7  | 641.2  | 643.6  | 632.1  | 609.0  | 596.2  | 586.5  | 574.6  | 574.6  | 576.7  | 541.1  |
| 27.5° | 699.3  | 693.4  | 684.7  | 664.4  | 629.8  | 613.5  | 602.9  | 590.2  | 593.5  | 601.6  | 561.3  |
| 30°   | 757.1  | 750.7  | 731.0  | 699.6  | 655.0  | 638.0  | 625.6  | 612.3  | 620.1  | 634.8  | 588.3  |
| 32.5° | 814.3  | 807.1  | 779.1  | 739.5  | 691.2  | 674.2  | 662.2  | 647.6  | 660.7  | 685.4  | 627.8  |
| 35°   | 869.7  | 863.2  | 831.0  | 784.4  | 739.3  | 725.3  | 714.3  | 701.6  | 718.4  | 752.9  | 683.6  |
| 37.5° | 932.0  | 925.0  | 885.6  | 835.1  | 797.9  | 787.8  | 779.7  | 767.0  | 796.4  | 846.9  | 761.3  |
| 40°   | 1008.6 | 996.6  | 943.6  | 893.2  | 865.7  | 860.8  | 855.3  | 853.6  | 899.1  | 969.0  | 864.9  |
| 42.5° | 1096.2 | 1076.6 | 1004.2 | 954.5  | 940.0  | 943.6  | 942.2  | 950.0  | 1027.7 | 1120.9 | 990.9  |
| 45°   | 1184.0 | 1158.7 | 1071.8 | 1019.9 | 1021.9 | 1034.1 | 1041.8 | 1073.2 | 1188.8 | 1295.2 | 1126.6 |
| 47.5° | 1258.3 | 1233.4 | 1136.6 | 1090.5 | 1114.0 | 1138.4 | 1159.0 | 1218.4 | 1354.5 | 1466.6 | 1232.1 |
| 50°   | 1321.9 | 1298.4 | 1205.2 | 1168.3 | 1221.1 | 1260.3 | 1293.9 | 1381.8 | 1532.6 | 1597.2 | 1306.0 |
| 52.5° | 1374.1 | 1358.3 | 1276.4 | 1257.3 | 1343.5 | 1400.8 | 1450.2 | 1555.6 | 1690.4 | 1703.3 | 1363.7 |
| 55°   | 1424.7 | 1413.6 | 1353.0 | 1363.2 | 1487.1 | 1565.2 | 1627.8 | 1739.7 | 1826.3 | 1791.8 | 1418.8 |
| 57.5° | 1483.0 | 1473.0 | 1440.4 | 1497.5 | 1676.0 | 1774.4 | 1842.4 | 1903.0 | 1945.8 | 1882.2 | 1470.9 |
| 60°   | 1542.5 | 1536.7 | 1537.5 | 1646.7 | 1892.9 | 1987.3 | 2024.9 | 2040.5 | 2063.3 | 1967.3 | 1473.8 |
| 62.5° | 1599.3 | 1610.5 | 1648.5 | 1812.7 | 2100.6 | 2173.0 | 2192.1 | 2207.6 | 2181.0 | 1980.9 | 1361.7 |
| 65°   | 1695.4 | 1713.6 | 1804.3 | 2034.9 | 2329.1 | 2406.7 | 2426.2 | 2373.1 | 2199.5 | 1806.3 | 1107.6 |
| 67.5° | 1742.4 | 1775.7 | 1937.3 | 2242.0 | 2550.6 | 2636.9 | 2629.7 | 2383.9 | 1973.8 | 1377.3 | 710.8  |
| 69°   | 1732.7 | 1768.1 | 1968.1 | 2305.5 | 2624.3 | 2702.4 | 2656.4 | 2252.2 | 1681.5 | 997.7  | 436.4  |
| 70°   | 1693.8 | 1729.7 | 1952.3 | 2303.0 | 2633.7 | 2695.5 | 2606.7 | 2089.5 | 1421.8 | 729.7  | 272.9  |
| 72.5° | 1414.6 | 1445.5 | 1733.2 | 2081.7 | 2426.2 | 2376.0 | 2180.7 | 1447.5 | 692.8  | 198.8  | 61.5   |
| 75°   | 870.7  | 888.0  | 1243.6 | 1568.2 | 1832.5 | 1703.3 | 1452.9 | 720.2  | 206.5  | 56.2   | 34.1   |
| 77.5° | 460.0  | 467.8  | 680.8  | 924.4  | 1161.7 | 961.2  | 744.7  | 280.9  | 95.2   | 35.3   | 24.7   |
| 80°   | 271.9  | 277.7  | 366.7  | 422.7  | 502.7  | 419.9  | 297.7  | 172.4  | 68.2   | 22.1   | 22.0   |
| 82.5° | 155.5  | 159.3  | 265.8  | 234.9  | 198.1  | 169.2  | 148.1  | 163.5  | 40.9   | 14.9   | 22.7   |
| 85°   | 57.2   | 57.9   | 149.5  | 178.7  | 117.9  | 70.0   | 73.6   | 135.5  | 10.9   | 9.4    | 17.8   |
| 87.5° | 26.7   | 26.0   | 76.9   | 109.5  | 69.0   | 44.5   | 57.4   | 29.7   | 4.3    | 6.1    | 4.9    |
| 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: P199979

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

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 491.3  | 491.3 | 491.3 | 491.3 | 491.3 | 491.3 | 491.3 | 491.3 | 491.3 | 491.3 | 491.3 |
| 2.5°  | 485.4  | 478.2 | 465.1 | 451.6 | 437.9 | 427.3 | 417.0 | 408.7 | 406.0 | 400.9 | 401.3 |
| 5°    | 470.6  | 457.2 | 429.9 | 402.1 | 373.1 | 349.2 | 326.6 | 308.5 | 299.7 | 290.7 | 290.7 |
| 7.5°  | 457.7  | 438.3 | 395.4 | 350.1 | 303.4 | 264.1 | 228.7 | 202.0 | 187.4 | 175.6 | 175.4 |
| 10°   | 452.8  | 426.5 | 366.7 | 301.9 | 236.6 | 183.0 | 141.0 | 113.9 | 100.1 | 91.0  | 90.6  |
| 12.5° | 454.9  | 422.4 | 344.5 | 257.2 | 175.4 | 117.7 | 81.6  | 64.3  | 58.4  | 55.6  | 55.6  |
| 15°   | 461.2  | 421.3 | 322.5 | 213.6 | 123.9 | 73.6  | 54.2  | 49.5  | 49.1  | 49.1  | 49.1  |
| 17.5° | 468.8  | 421.6 | 299.7 | 171.1 | 84.3  | 52.7  | 46.8  | 46.2  | 46.6  | 46.6  | 46.6  |
| 20°   | 476.7  | 421.8 | 275.3 | 131.7 | 59.5  | 45.8  | 44.0  | 43.8  | 44.2  | 44.2  | 44.5  |
| 22.5° | 486.3  | 422.9 | 250.7 | 98.5  | 49.1  | 43.2  | 41.8  | 41.8  | 42.1  | 42.1  | 41.8  |
| 25°   | 497.2  | 424.8 | 225.3 | 72.9  | 44.8  | 41.5  | 40.3  | 40.1  | 40.3  | 40.1  | 40.0  |
| 27.5° | 510.9  | 427.5 | 196.8 | 57.2  | 42.8  | 39.8  | 38.8  | 38.8  | 38.6  | 38.4  | 38.1  |
| 30°   | 528.2  | 430.7 | 165.0 | 48.5  | 40.9  | 38.1  | 37.1  | 37.0  | 36.8  | 36.4  | 36.4  |
| 32.5° | 554.4  | 437.5 | 133.6 | 44.0  | 38.8  | 36.0  | 35.3  | 35.3  | 34.9  | 34.4  | 34.3  |
| 35°   | 594.7  | 451.0 | 105.3 | 41.3  | 36.4  | 33.7  | 32.7  | 32.7  | 32.3  | 32.1  | 31.9  |
| 37.5° | 650.5  | 471.6 | 81.8  | 38.8  | 34.1  | 31.1  | 30.1  | 29.9  | 29.6  | 29.2  | 29.0  |
| 40°   | 724.7  | 497.0 | 64.4  | 36.4  | 31.6  | 28.6  | 27.8  | 27.5  | 26.7  | 26.0  | 26.0  |
| 42.5° | 818.0  | 526.0 | 52.2  | 33.9  | 29.0  | 26.2  | 25.6  | 25.0  | 23.7  | 23.1  | 23.0  |
| 45°   | 915.4  | 552.1 | 44.2  | 30.9  | 26.2  | 23.9  | 23.5  | 22.5  | 20.8  | 20.2  | 20.2  |
| 47.5° | 985.6  | 558.1 | 39.0  | 28.2  | 23.7  | 21.3  | 21.2  | 19.3  | 17.8  | 17.4  | 17.3  |
| 50°   | 1029.4 | 546.2 | 34.6  | 25.4  | 21.3  | 19.0  | 18.3  | 16.3  | 15.3  | 14.9  | 14.6  |
| 52.5° | 1059.0 | 524.8 | 31.1  | 23.1  | 19.2  | 16.8  | 15.6  | 13.8  | 13.1  | 12.7  | 12.7  |
| 55°   | 1082.8 | 494.7 | 27.7  | 21.0  | 17.4  | 15.1  | 13.1  | 11.9  | 11.2  | 10.8  | 10.8  |
| 57.5° | 1089.5 | 453.8 | 24.0  | 19.2  | 15.7  | 13.3  | 11.2  | 10.4  | 9.4   | 9.2   | 9.2   |
| 60°   | 1041.0 | 380.0 | 21.3  | 17.1  | 14.1  | 11.6  | 9.9   | 8.8   | 7.8   | 7.6   | 7.4   |
| 62.5° | 913.6  | 294.0 | 18.8  | 15.1  | 12.3  | 10.0  | 8.4   | 7.2   | 6.4   | 6.4   | 6.4   |
| 65°   | 696.8  | 197.1 | 16.5  | 13.1  | 10.8  | 8.4   | 7.2   | 5.9   | 5.5   | 5.5   | 5.7   |
| 67.5° | 417.2  | 107.3 | 14.1  | 11.2  | 9.2   | 7.1   | 6.1   | 5.1   | 4.9   | 5.1   | 5.1   |
| 69°   | 244.5  | 63.1  | 12.7  | 10.0  | 7.9   | 6.2   | 5.3   | 4.5   | 4.9   | 5.1   | 5.1   |
| 70°   | 150.9  | 42.5  | 11.8  | 9.0   | 7.2   | 5.7   | 4.9   | 4.3   | 4.7   | 4.9   | 4.9   |
| 72.5° | 42.1   | 22.0  | 9.4   | 7.1   | 5.9   | 4.7   | 4.0   | 4.0   | 4.5   | 4.7   | 4.7   |
| 75°   | 27.5   | 16.3  | 7.2   | 5.3   | 4.5   | 3.8   | 3.3   | 3.8   | 4.3   | 4.5   | 4.5   |
| 77.5° | 22.7   | 13.3  | 5.9   | 4.3   | 3.8   | 3.5   | 3.2   | 3.3   | 4.0   | 4.2   | 4.2   |
| 80°   | 20.8   | 9.4   | 4.7   | 4.0   | 3.3   | 3.2   | 2.9   | 2.7   | 3.5   | 3.8   | 3.8   |
| 82.5° | 19.7   | 7.4   | 4.2   | 3.5   | 3.2   | 2.7   | 2.5   | 2.7   | 3.2   | 3.3   | 3.5   |
| 85°   | 12.3   | 4.9   | 3.8   | 3.3   | 2.7   | 2.5   | 2.5   | 2.5   | 2.9   | 3.2   | 3.2   |
| 87.5° | 4.5    | 4.0   | 3.3   | 2.7   | 2.4   | 2.4   | 2.4   | 2.4   | 2.5   | 2.9   | 2.9   |
| 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)