

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: P200352

Luminaire Tested: **GAP-AF-02-LED-U-T3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-02-LED-U-T3-7050
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12425 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

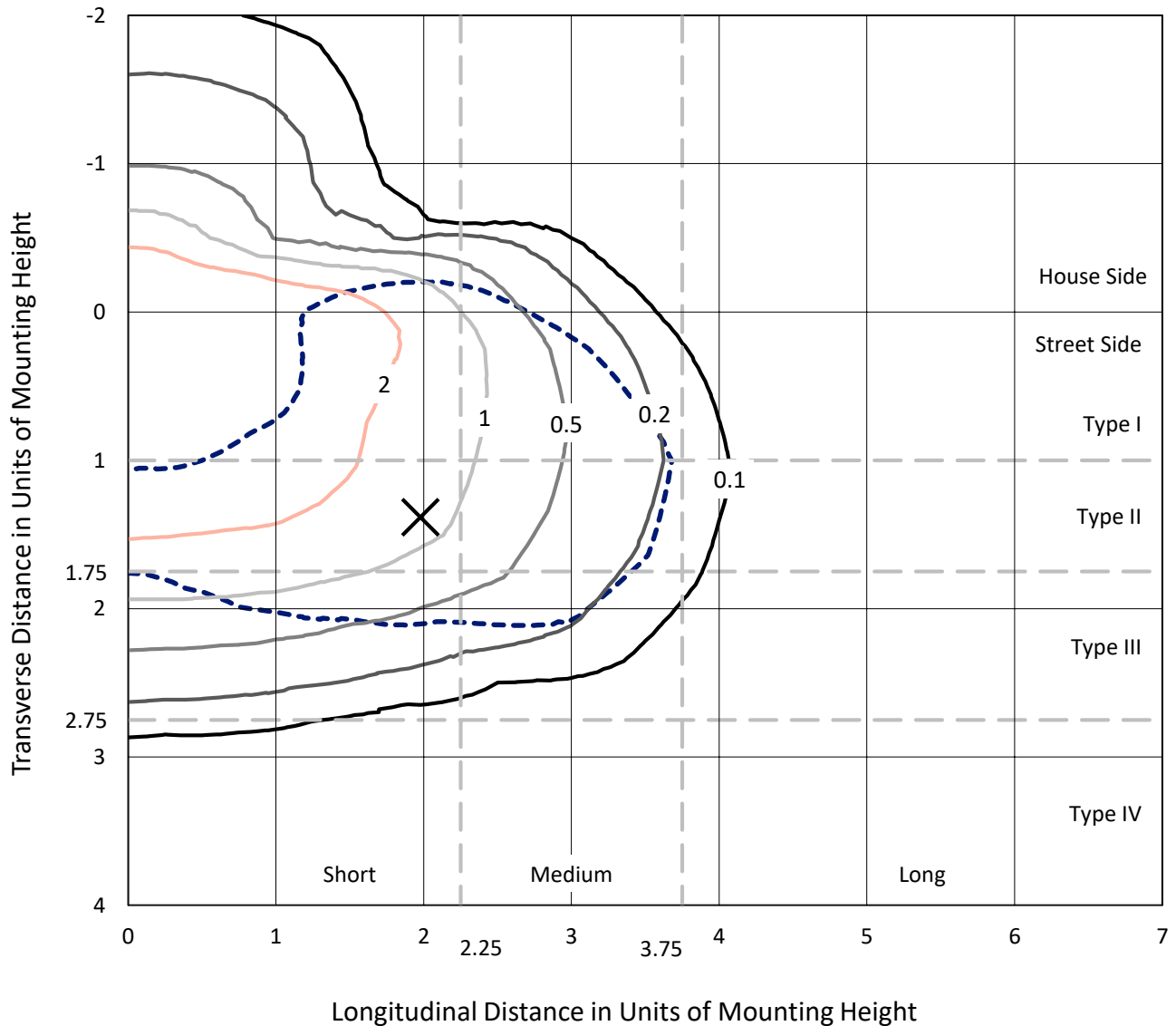
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

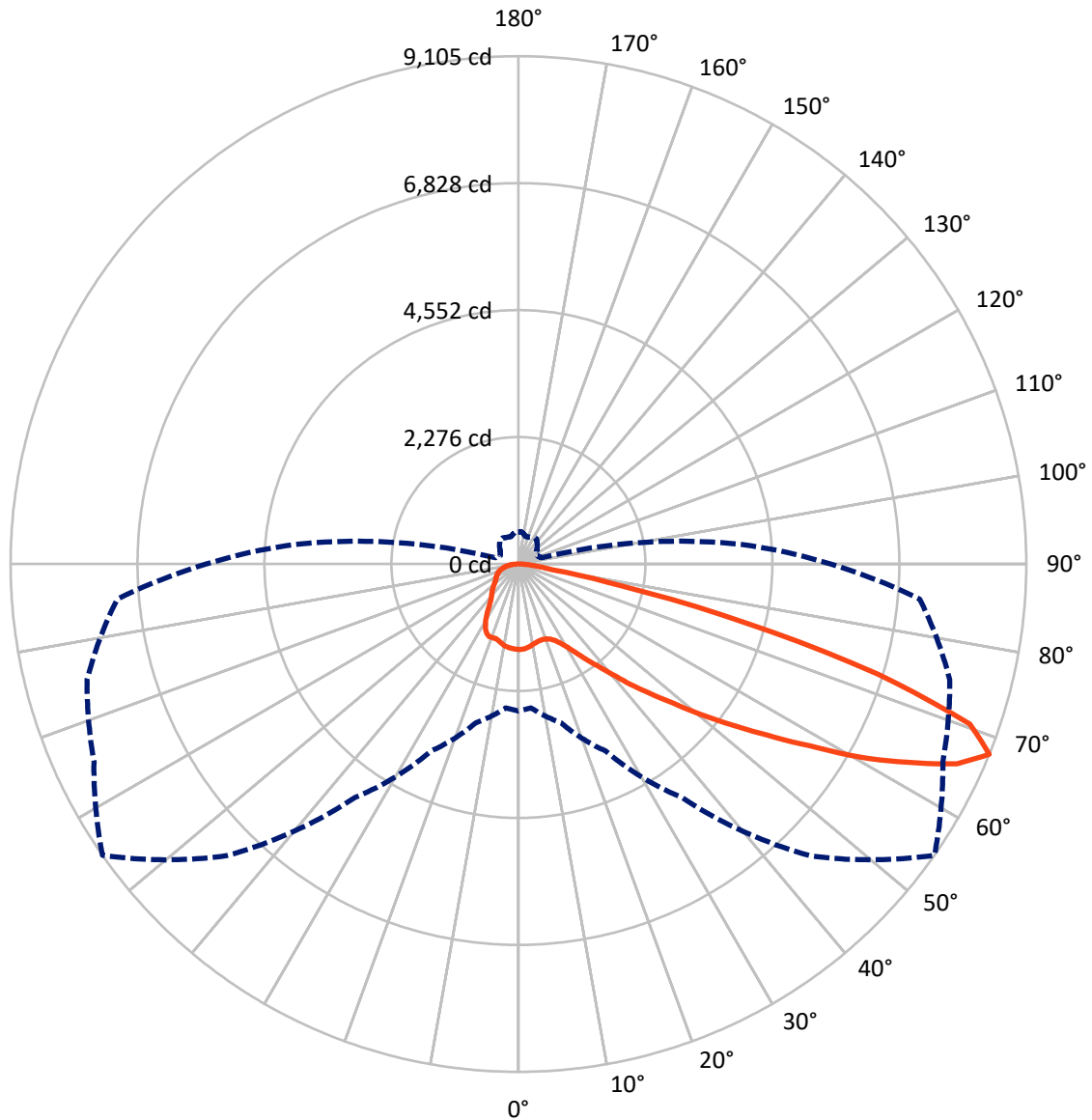
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2684.0 | 0.0 | 2684.0 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 9740.9 | 0.0 | 9740.9 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 12425.0 | 0.0 | 12425.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 143.0 | 1.2 |
| 10°-20° | 405.0 | 3.3 |
| 20°-30° | 678.5 | 5.5 |
| 30°-40° | 1115.7 | 9.0 |
| 40°-50° | 1878.0 | 15.1 |
| 50°-60° | 2955.9 | 23.8 |
| 60°-70° | 3527.5 | 28.4 |
| 70°-80° | 1514.8 | 12.2 |
| 80°-90° | 206.5 | 1.7 |
| 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° | 12425.0 | 100.0 |
| 0°-180° | 12425.0 | 100.0 |



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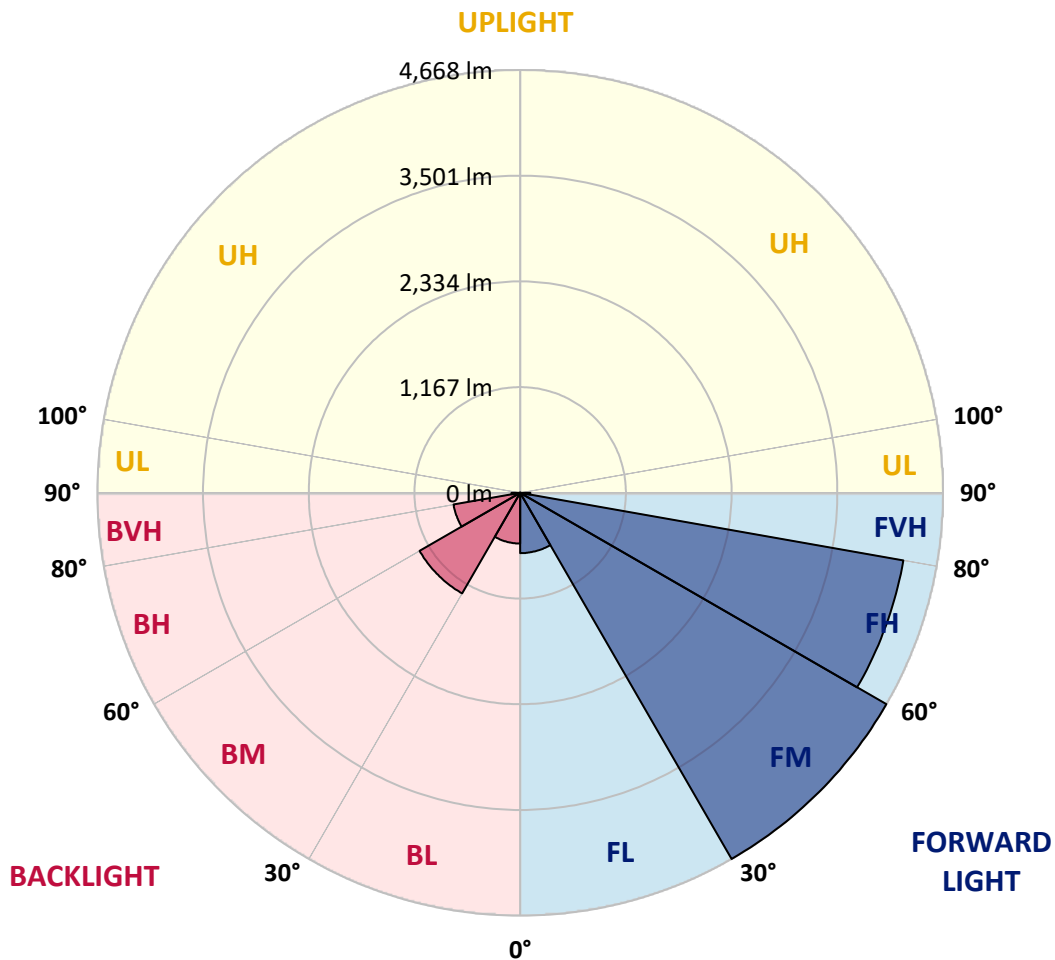
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 666.0 | 5.4 | | | |
| FM (30°-60°) | 4667.7 | 37.6 | | | |
| FH (60°-80°) | 4295.4 | 34.6 | | | G2/5000 |
| FVH (80°-90°) | 111.8 | 0.9 | | | G2/225 |
| BL (0°-30°) | 560.5 | 4.5 | B2/1000 | | |
| BM (30°-60°) | 1281.9 | 10.3 | B2/2500 | | |
| BH (60°-80°) | 747.0 | 6.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 94.7 | 0.8 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 |
| 2.5° | 1518.9 | 1519.5 | 1520.7 | 1525.5 | 1529.7 | 1528.5 | 1529.1 | 1526.7 | 1526.1 | 1522.5 | 1526.1 |
| 5° | 1499.7 | 1501.5 | 1502.1 | 1509.9 | 1514.7 | 1515.9 | 1514.1 | 1511.1 | 1507.5 | 1503.9 | 1505.7 |
| 7.5° | 1455.9 | 1460.7 | 1461.3 | 1472.1 | 1479.9 | 1490.1 | 1490.7 | 1491.3 | 1489.5 | 1487.1 | 1490.7 |
| 10° | 1428.3 | 1429.5 | 1428.9 | 1436.7 | 1442.7 | 1454.1 | 1460.7 | 1472.1 | 1476.9 | 1478.1 | 1480.5 |
| 12.5° | 1426.5 | 1425.3 | 1423.5 | 1423.5 | 1421.7 | 1426.5 | 1438.5 | 1454.7 | 1466.1 | 1469.7 | 1472.7 |
| 15° | 1445.7 | 1445.1 | 1439.1 | 1430.1 | 1418.7 | 1415.1 | 1425.3 | 1443.3 | 1458.3 | 1466.1 | 1469.1 |
| 17.5° | 1488.9 | 1485.3 | 1475.7 | 1455.3 | 1430.7 | 1421.1 | 1422.3 | 1437.3 | 1454.7 | 1464.9 | 1467.9 |
| 20° | 1568.1 | 1568.1 | 1547.7 | 1509.3 | 1465.5 | 1442.7 | 1431.9 | 1440.9 | 1457.7 | 1471.5 | 1475.7 |
| 22.5° | 1705.0 | 1706.2 | 1672.0 | 1609.0 | 1535.1 | 1486.5 | 1459.5 | 1457.7 | 1477.5 | 1493.1 | 1497.9 |
| 25° | 1898.8 | 1894.0 | 1846.0 | 1756.0 | 1643.8 | 1563.3 | 1516.5 | 1505.7 | 1522.5 | 1539.9 | 1545.9 |
| 27.5° | 2124.5 | 2107.1 | 2050.1 | 1941.4 | 1796.2 | 1678.6 | 1606.6 | 1589.2 | 1605.4 | 1625.2 | 1631.2 |
| 30° | 2347.7 | 2329.7 | 2261.9 | 2143.1 | 1981.6 | 1832.8 | 1729.6 | 1701.4 | 1724.2 | 1752.4 | 1756.0 |
| 32.5° | 2571.0 | 2571.0 | 2495.4 | 2356.7 | 2180.9 | 2017.0 | 1893.4 | 1859.8 | 1897.6 | 1931.8 | 1939.6 |
| 35° | 2838.0 | 2839.2 | 2766.0 | 2599.2 | 2410.1 | 2236.7 | 2100.5 | 2075.9 | 2132.9 | 2156.9 | 2175.5 |
| 37.5° | 3166.3 | 3172.9 | 3078.7 | 2877.0 | 2670.0 | 2487.5 | 2325.5 | 2291.9 | 2348.9 | 2414.3 | 2474.3 |
| 40° | 3521.0 | 3529.4 | 3425.6 | 3177.1 | 2970.1 | 2779.2 | 2604.0 | 2543.4 | 2638.2 | 2763.0 | 2840.4 |
| 42.5° | 3859.5 | 3902.7 | 3802.4 | 3546.8 | 3324.1 | 3126.7 | 2949.1 | 2860.8 | 2979.7 | 3168.1 | 3235.3 |
| 45° | 4348.6 | 4379.8 | 4205.1 | 3973.5 | 3764.0 | 3543.2 | 3307.9 | 3214.9 | 3381.1 | 3618.8 | 3632.6 |
| 47.5° | 4674.4 | 4651.0 | 4562.2 | 4418.2 | 4285.5 | 4079.1 | 3725.0 | 3623.0 | 3843.8 | 4123.5 | 4046.1 |
| 50° | 4847.9 | 4855.1 | 4843.1 | 4851.5 | 4856.3 | 4726.6 | 4236.3 | 4096.5 | 4360.0 | 4697.8 | 4519.6 |
| 52.5° | 5009.9 | 4961.9 | 5001.5 | 5198.3 | 5436.0 | 5388.0 | 4792.7 | 4646.8 | 4913.3 | 5335.2 | 5020.1 |
| 55° | 5006.3 | 4933.1 | 5062.1 | 5409.6 | 5925.1 | 5980.3 | 5417.4 | 5249.4 | 5498.4 | 6018.7 | 5550.6 |
| 57.5° | 4829.3 | 4832.9 | 5031.5 | 5486.4 | 6266.0 | 6537.2 | 6142.4 | 5890.3 | 6119.0 | 6711.3 | 6034.9 |
| 60° | 4585.6 | 4618.6 | 4904.9 | 5473.8 | 6539.0 | 6993.9 | 7031.8 | 6581.1 | 6726.9 | 7340.8 | 6435.8 |
| 62.5° | 4192.5 | 4227.3 | 4622.2 | 5343.0 | 6497.6 | 7433.8 | 7835.9 | 7364.8 | 7362.4 | 7722.5 | 6553.4 |
| 65° | 3572.6 | 3562.4 | 3977.1 | 4853.9 | 6150.2 | 7759.1 | 8634.7 | 8042.4 | 7841.3 | 7728.5 | 6317.0 |
| 67.5° | 2634.6 | 2589.0 | 2944.9 | 3696.8 | 5111.9 | 7394.8 | 9104.6 | 8395.3 | 8004.6 | 7220.2 | 5594.4 |
| 70° | 1367.1 | 1321.5 | 1609.6 | 2158.7 | 3361.9 | 5771.5 | 8584.3 | 8212.8 | 7643.9 | 6052.3 | 4382.8 |
| 72.5° | 584.5 | 576.7 | 693.8 | 947.0 | 1626.4 | 3328.9 | 6731.1 | 7108.6 | 6558.8 | 4509.4 | 3013.3 |
| 75° | 393.1 | 390.7 | 434.5 | 516.1 | 731.6 | 1350.9 | 4212.3 | 5045.9 | 4798.7 | 2796.0 | 1694.8 |
| 77.5° | 308.5 | 305.5 | 331.3 | 370.9 | 474.1 | 532.9 | 1869.4 | 2709.0 | 2507.4 | 1217.1 | 741.8 |
| 80° | 241.3 | 238.9 | 255.1 | 276.7 | 340.9 | 336.1 | 615.1 | 1077.8 | 834.2 | 466.3 | 360.7 |
| 82.5° | 190.2 | 190.2 | 203.4 | 204.0 | 241.9 | 229.3 | 321.1 | 474.7 | 416.5 | 271.9 | 220.8 |
| 85° | 174.0 | 174.0 | 187.8 | 152.4 | 157.8 | 144.6 | 199.2 | 281.5 | 264.1 | 111.6 | 96.0 |
| 87.5° | 87.6 | 85.2 | 157.8 | 135.0 | 85.8 | 76.8 | 97.2 | 136.2 | 146.4 | 61.8 | 48.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: GAP-AF-02-LED-U-T3-7050

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 | 1532.1 |
| 2.5° | 1524.9 | 1524.3 | 1525.5 | 1526.1 | 1530.9 | 1537.5 | 1540.5 | 1544.7 | 1547.1 | 1545.9 |
| 5° | 1506.9 | 1508.1 | 1512.9 | 1516.5 | 1524.9 | 1535.7 | 1541.7 | 1546.5 | 1550.7 | 1548.9 |
| 7.5° | 1491.9 | 1494.9 | 1502.1 | 1505.1 | 1509.9 | 1512.9 | 1512.3 | 1514.1 | 1517.7 | 1513.5 |
| 10° | 1483.5 | 1487.1 | 1492.5 | 1488.3 | 1476.9 | 1460.7 | 1445.7 | 1437.9 | 1440.3 | 1437.3 |
| 12.5° | 1475.1 | 1479.9 | 1475.7 | 1455.9 | 1424.1 | 1403.1 | 1391.7 | 1392.9 | 1398.3 | 1399.5 |
| 15° | 1470.3 | 1472.1 | 1454.1 | 1416.9 | 1384.5 | 1381.5 | 1387.5 | 1386.3 | 1386.9 | 1386.9 |
| 17.5° | 1470.3 | 1465.5 | 1431.9 | 1394.7 | 1380.9 | 1375.5 | 1356.9 | 1333.5 | 1323.3 | 1319.7 |
| 20° | 1478.1 | 1465.5 | 1424.7 | 1400.1 | 1370.1 | 1323.9 | 1274.7 | 1231.5 | 1212.3 | 1206.9 |
| 22.5° | 1501.5 | 1479.9 | 1445.1 | 1402.5 | 1317.3 | 1239.9 | 1161.9 | 1110.2 | 1075.4 | 1069.4 |
| 25° | 1548.9 | 1524.9 | 1485.3 | 1370.7 | 1233.3 | 1122.8 | 1034.0 | 976.4 | 941.6 | 936.8 |
| 27.5° | 1631.8 | 1616.2 | 1506.9 | 1300.5 | 1121.6 | 1003.4 | 921.2 | 876.8 | 851.0 | 849.2 |
| 30° | 1756.6 | 1748.8 | 1496.1 | 1196.7 | 984.2 | 887.6 | 848.0 | 822.2 | 803.0 | 802.4 |
| 32.5° | 1955.8 | 1892.8 | 1460.7 | 1070.0 | 858.8 | 805.4 | 789.2 | 773.6 | 758.6 | 758.6 |
| 35° | 2212.1 | 2009.2 | 1393.5 | 934.4 | 782.6 | 759.8 | 739.4 | 714.8 | 695.0 | 693.8 |
| 37.5° | 2513.4 | 2081.3 | 1272.9 | 825.2 | 746.6 | 729.2 | 699.2 | 662.5 | 627.7 | 621.7 |
| 40° | 2817.6 | 2102.9 | 1103.0 | 758.0 | 723.8 | 698.6 | 661.9 | 618.7 | 585.1 | 583.3 |
| 42.5° | 3096.7 | 2061.5 | 923.0 | 711.8 | 701.0 | 667.3 | 628.9 | 590.5 | 564.1 | 563.5 |
| 45° | 3330.7 | 1954.0 | 771.8 | 667.9 | 676.9 | 639.1 | 604.9 | 573.7 | 553.3 | 549.1 |
| 47.5° | 3551.0 | 1802.2 | 665.5 | 621.7 | 652.9 | 623.5 | 594.7 | 565.3 | 545.5 | 542.5 |
| 50° | 3806.6 | 1638.4 | 591.1 | 576.7 | 631.9 | 618.1 | 603.1 | 572.5 | 539.5 | 535.9 |
| 52.5° | 4116.3 | 1496.7 | 532.9 | 537.1 | 615.7 | 625.3 | 624.7 | 592.9 | 535.3 | 530.5 |
| 55° | 4462.0 | 1339.5 | 489.1 | 504.7 | 609.1 | 638.5 | 630.1 | 612.1 | 538.9 | 531.7 |
| 57.5° | 4802.3 | 1155.9 | 458.5 | 480.1 | 599.5 | 637.3 | 604.3 | 578.5 | 547.3 | 537.1 |
| 60° | 5057.3 | 909.2 | 435.1 | 458.5 | 578.5 | 617.5 | 576.1 | 541.9 | 545.5 | 537.7 |
| 62.5° | 5074.1 | 702.8 | 406.9 | 439.9 | 546.7 | 597.7 | 557.5 | 525.7 | 553.3 | 546.1 |
| 65° | 4775.9 | 531.1 | 379.9 | 417.7 | 512.5 | 585.1 | 539.5 | 516.7 | 569.5 | 561.7 |
| 67.5° | 4020.9 | 427.3 | 357.1 | 394.9 | 478.3 | 558.7 | 523.3 | 508.3 | 583.9 | 570.1 |
| 70° | 2902.8 | 364.3 | 334.9 | 367.3 | 447.7 | 528.7 | 508.9 | 493.3 | 544.9 | 523.3 |
| 72.5° | 1787.2 | 315.7 | 309.7 | 330.7 | 424.3 | 497.5 | 487.3 | 465.1 | 490.9 | 473.5 |
| 75° | 892.4 | 273.7 | 281.5 | 294.7 | 391.3 | 462.1 | 451.3 | 429.1 | 432.7 | 429.1 |
| 77.5° | 427.3 | 234.1 | 248.5 | 258.7 | 348.7 | 421.9 | 410.5 | 387.7 | 383.5 | 384.1 |
| 80° | 270.7 | 195.6 | 209.4 | 216.6 | 311.5 | 375.1 | 363.7 | 340.9 | 388.9 | 360.7 |
| 82.5° | 169.2 | 159.0 | 162.6 | 175.8 | 271.3 | 326.5 | 311.5 | 291.1 | 350.5 | 277.3 |
| 85° | 93.6 | 111.0 | 115.8 | 127.2 | 208.8 | 273.1 | 258.1 | 232.3 | 208.2 | 204.6 |
| 87.5° | 55.8 | 66.0 | 67.8 | 76.2 | 140.4 | 197.4 | 174.6 | 165.6 | 137.4 | 136.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)