

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: P269850

Luminaire Tested: **GAW-AF-02-LED-U-5WQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269850
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: GAW-AF-02-LED-U-5WQ-7027-600
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7489.6 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 66
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

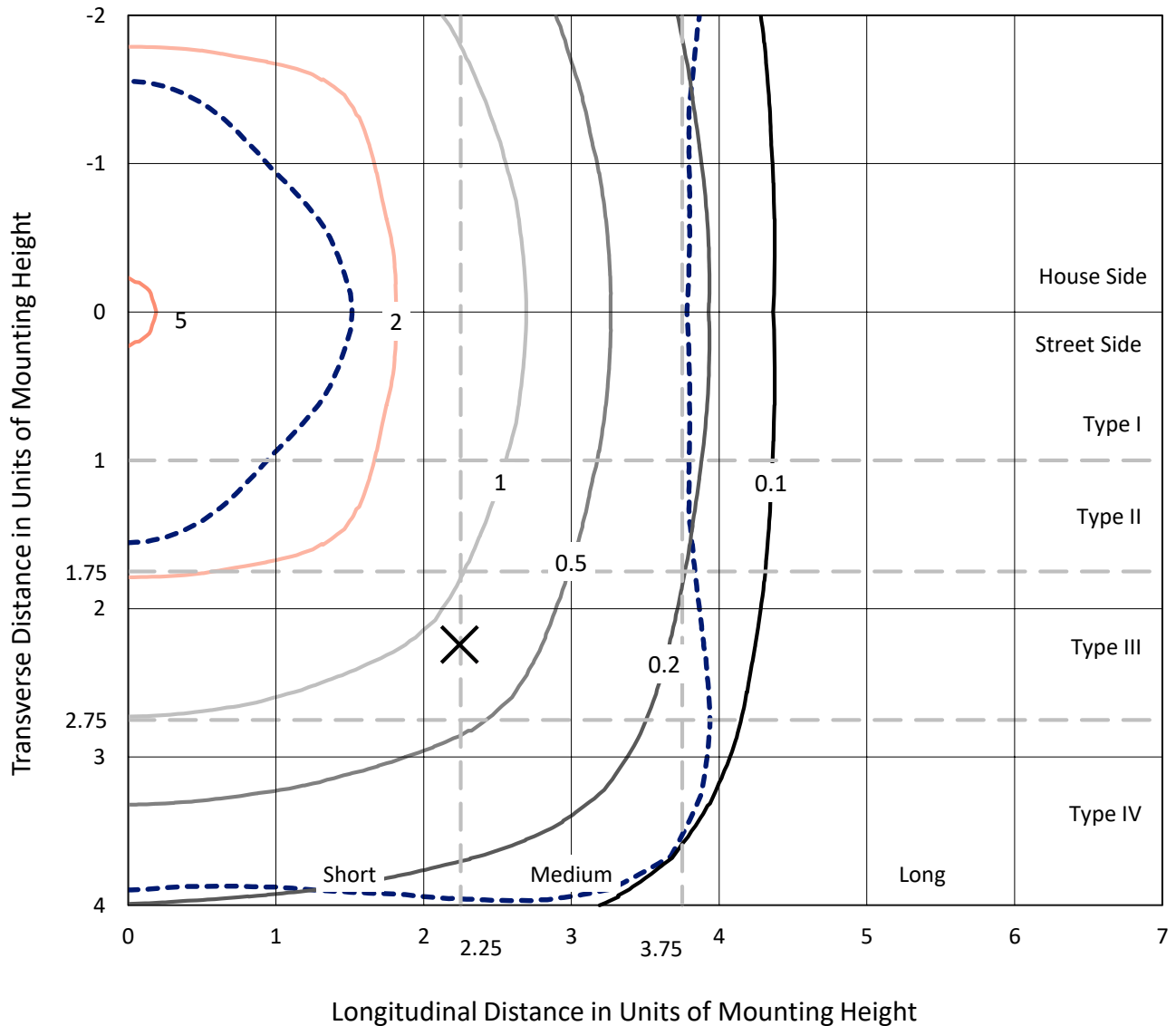


REPORT NUMBER: P269850

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

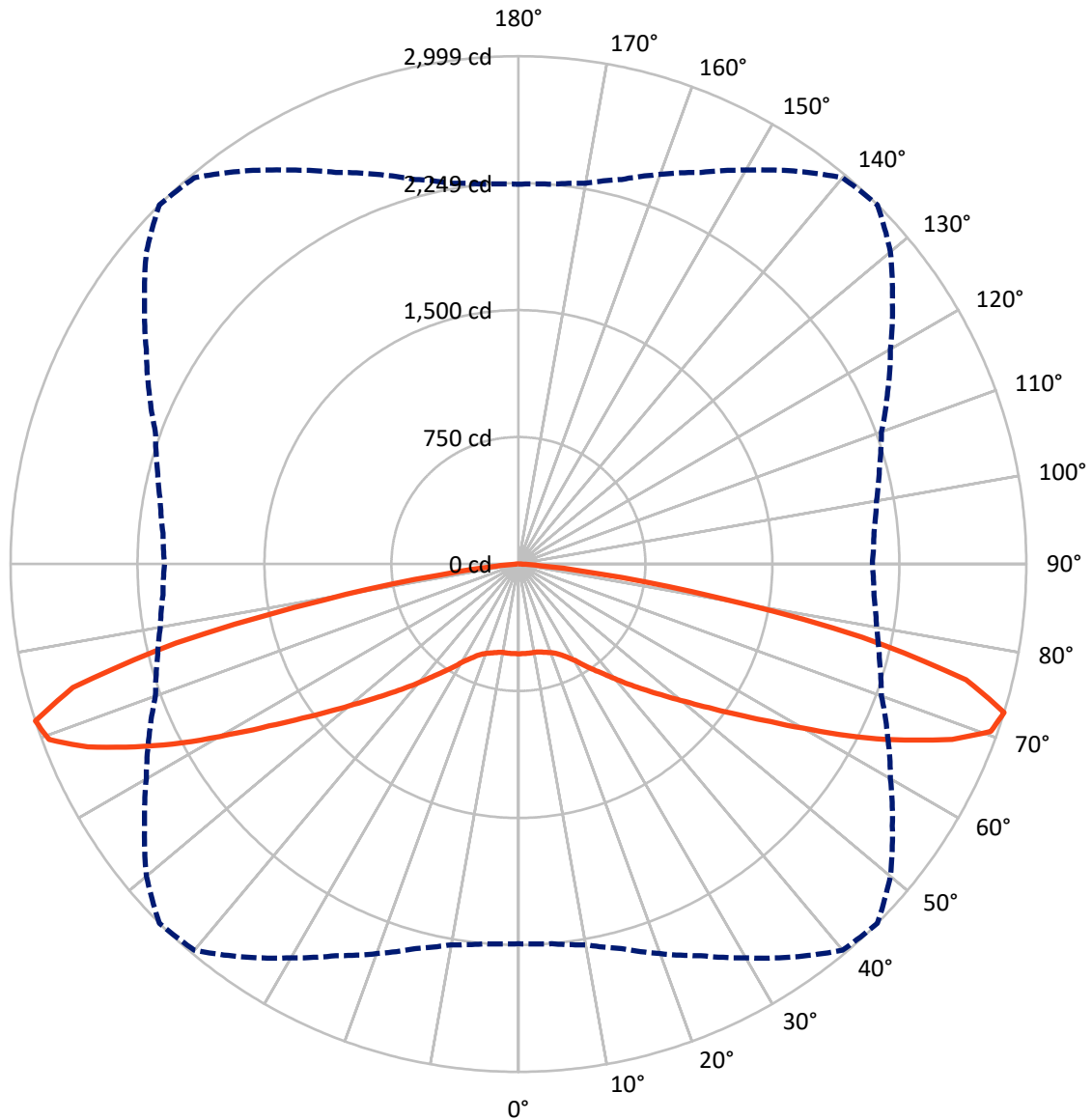


Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P269850

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3744.8 | 0.0 | 3744.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3744.8 | 0.0 | 3744.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7489.6 | 0.0 | 7489.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 50.6 | 0.7 |
| 10°-20° | 153.8 | 2.1 |
| 20°-30° | 281.1 | 3.8 |
| 30°-40° | 484.6 | 6.5 |
| 40°-50° | 828.5 | 11.1 |
| 50°-60° | 1342.9 | 17.9 |
| 60°-70° | 2227.8 | 29.7 |
| 70°-80° | 1962.1 | 26.2 |
| 80°-90° | 158.2 | 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° | 7489.6 | 100.0 |
| 0°-180° | 7489.6 | 100.0 |



REPORT NUMBER: P269850

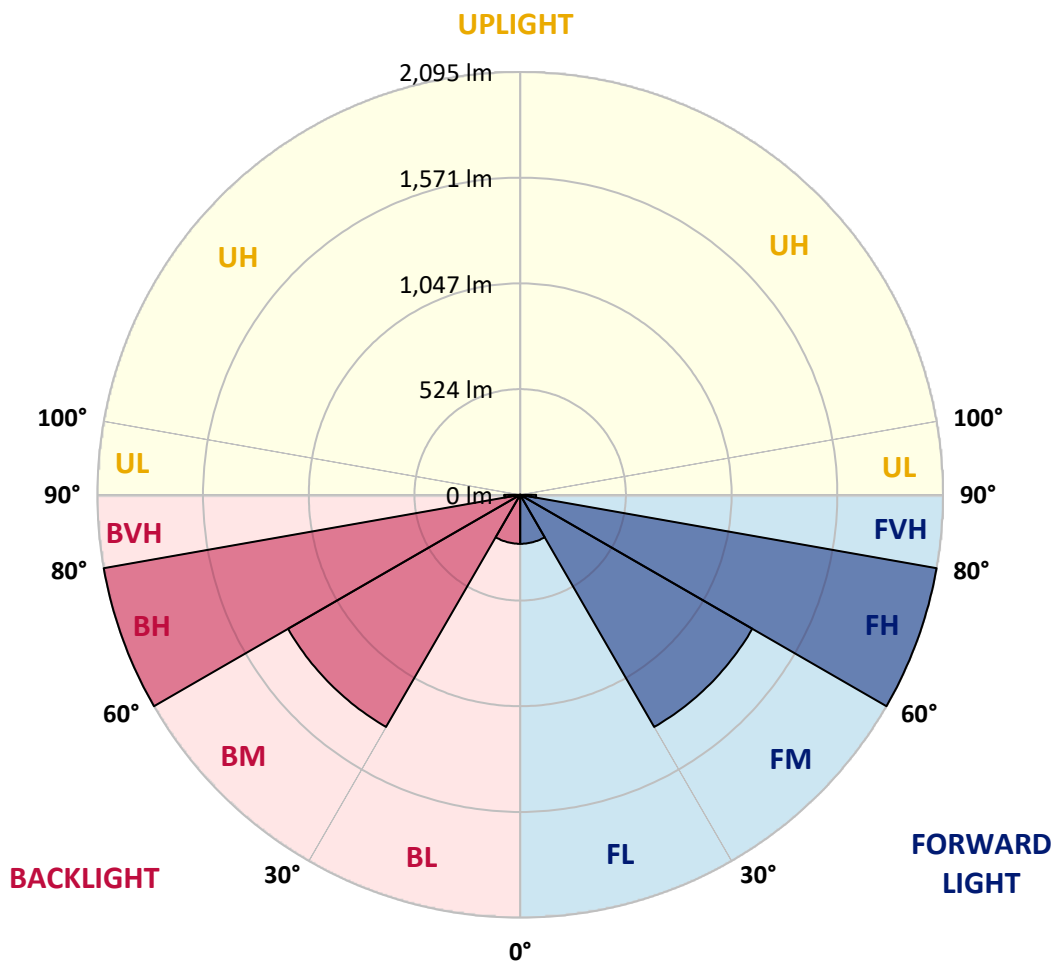
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 242.8 | 3.2 | | | |
| FM | (30°-60°) | 1328.0 | 17.7 | | | |
| FH | (60°-80°) | 2095.0 | 28.0 | | | G2/5000 |
| FVH | (80°-90°) | 79.1 | 1.1 | | | G1/100 |
| BL | (0°-30°) | 242.8 | 3.2 | B1/500 | | |
| BM | (30°-60°) | 1328.0 | 17.7 | B2/2500 | | |
| BH | (60°-80°) | 2095.0 | 28.0 | B3/2500 | | G2/5000 |
| BVH | (80°-90°) | 79.1 | 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-G2

Type V Short





REPORT NUMBER: P269850

CATALOG NUMBER: GAW-AF-02-LED-U-5WQ-7027-600

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 530.4 | 530.4 | 530.4 | 530.4 | 530.4 | 530.4 | 530.4 | 530.4 | 530.4 | 530.4 | 530.4 |
| 2.5° | 530.4 | 530.7 | 531.1 | 530.7 | 530.7 | 530.4 | 530.0 | 530.4 | 530.0 | 529.3 | 529.7 |
| 5° | 532.1 | 532.8 | 532.8 | 532.1 | 532.4 | 532.1 | 531.3 | 531.7 | 531.1 | 530.0 | 530.0 |
| 7.5° | 534.1 | 534.5 | 534.5 | 533.9 | 534.1 | 533.5 | 532.8 | 532.4 | 531.7 | 530.4 | 529.3 |
| 10° | 537.2 | 537.5 | 537.2 | 536.6 | 536.6 | 535.5 | 533.9 | 533.1 | 531.7 | 529.7 | 528.7 |
| 12.5° | 540.7 | 541.0 | 540.7 | 540.1 | 539.6 | 537.9 | 536.6 | 535.5 | 534.5 | 532.8 | 531.1 |
| 15° | 545.5 | 546.2 | 545.5 | 544.2 | 543.0 | 541.7 | 541.0 | 541.4 | 541.7 | 540.3 | 538.7 |
| 17.5° | 554.4 | 554.8 | 553.7 | 550.7 | 549.3 | 547.8 | 547.8 | 548.5 | 549.7 | 549.0 | 547.2 |
| 20° | 571.0 | 569.9 | 567.5 | 563.6 | 562.0 | 559.6 | 559.3 | 559.6 | 559.6 | 559.3 | 557.8 |
| 22.5° | 591.5 | 590.8 | 587.8 | 582.9 | 580.6 | 579.1 | 577.2 | 575.4 | 575.0 | 573.9 | 572.6 |
| 25° | 616.2 | 615.9 | 612.1 | 608.1 | 606.3 | 604.6 | 602.9 | 600.4 | 598.5 | 595.9 | 594.6 |
| 27.5° | 647.9 | 646.5 | 641.0 | 639.0 | 636.4 | 635.6 | 633.0 | 630.3 | 628.6 | 625.5 | 623.9 |
| 30° | 682.5 | 682.5 | 678.1 | 677.4 | 677.4 | 674.9 | 672.2 | 667.4 | 664.3 | 661.2 | 660.3 |
| 32.5° | 717.2 | 717.6 | 713.2 | 714.5 | 715.5 | 717.2 | 717.9 | 716.2 | 714.2 | 713.9 | 711.7 |
| 35° | 767.4 | 766.1 | 761.6 | 762.7 | 762.2 | 761.9 | 761.9 | 765.6 | 766.3 | 767.1 | 762.9 |
| 37.5° | 829.6 | 829.6 | 825.2 | 825.2 | 823.0 | 821.1 | 818.3 | 820.6 | 824.5 | 825.5 | 822.7 |
| 40° | 900.7 | 903.1 | 897.5 | 897.2 | 897.9 | 891.4 | 888.3 | 892.0 | 894.5 | 898.7 | 895.5 |
| 42.5° | 984.5 | 982.7 | 977.3 | 976.5 | 972.9 | 970.8 | 968.1 | 971.1 | 974.9 | 977.6 | 978.7 |
| 45° | 1064.9 | 1063.6 | 1057.3 | 1057.3 | 1053.5 | 1051.8 | 1053.3 | 1058.4 | 1060.1 | 1063.9 | 1067.6 |
| 47.5° | 1144.3 | 1142.6 | 1138.4 | 1140.0 | 1140.5 | 1143.5 | 1148.0 | 1152.9 | 1157.6 | 1162.8 | 1164.6 |
| 50° | 1225.3 | 1225.6 | 1221.2 | 1225.3 | 1230.5 | 1239.0 | 1251.1 | 1259.0 | 1268.9 | 1275.5 | 1277.5 |
| 52.5° | 1299.2 | 1300.6 | 1305.3 | 1314.9 | 1325.3 | 1342.1 | 1362.6 | 1382.0 | 1398.4 | 1409.4 | 1408.7 |
| 55° | 1387.8 | 1389.9 | 1401.5 | 1418.1 | 1434.9 | 1460.3 | 1490.8 | 1524.9 | 1552.4 | 1568.1 | 1558.2 |
| 57.5° | 1501.2 | 1505.6 | 1518.7 | 1541.0 | 1566.0 | 1599.1 | 1640.9 | 1692.1 | 1734.7 | 1756.0 | 1739.8 |
| 60° | 1656.7 | 1659.4 | 1675.2 | 1700.0 | 1730.2 | 1771.2 | 1827.2 | 1895.9 | 1956.0 | 1984.1 | 1965.6 |
| 62.5° | 1861.8 | 1866.9 | 1879.8 | 1904.8 | 1935.7 | 1982.1 | 2050.4 | 2136.3 | 2211.2 | 2250.3 | 2208.5 |
| 65° | 2106.7 | 2123.2 | 2134.0 | 2159.3 | 2188.2 | 2237.3 | 2308.7 | 2400.8 | 2481.2 | 2507.0 | 2458.5 |
| 67.5° | 2349.2 | 2363.7 | 2382.2 | 2411.5 | 2440.7 | 2496.0 | 2562.2 | 2651.5 | 2739.9 | 2763.2 | 2688.0 |
| 70° | 2455.4 | 2463.7 | 2492.5 | 2532.4 | 2588.3 | 2653.7 | 2730.3 | 2830.6 | 2939.9 | 2959.0 | 2863.5 |
| 72.5° | 2242.8 | 2251.1 | 2283.3 | 2351.0 | 2448.6 | 2552.4 | 2685.9 | 2833.3 | 2977.6 | 2999.3 | 2867.7 |
| 75° | 1696.3 | 1682.9 | 1730.7 | 1820.2 | 1951.8 | 2096.5 | 2283.3 | 2494.7 | 2703.1 | 2730.3 | 2573.3 |
| 77.5° | 876.7 | 874.9 | 911.1 | 1022.4 | 1179.3 | 1343.9 | 1549.5 | 1788.3 | 1992.4 | 2074.8 | 1947.0 |
| 80° | 246.9 | 249.6 | 266.8 | 322.2 | 413.8 | 532.8 | 693.5 | 917.2 | 1084.2 | 1169.4 | 1097.9 |
| 82.5° | 96.8 | 104.5 | 110.9 | 121.2 | 133.3 | 150.7 | 201.3 | 299.6 | 401.9 | 480.2 | 393.3 |
| 85° | 34.7 | 37.1 | 52.6 | 62.2 | 63.2 | 66.7 | 75.8 | 88.7 | 106.8 | 127.4 | 104.7 |
| 87.5° | 13.0 | 14.5 | 16.8 | 27.8 | 27.5 | 25.1 | 30.5 | 31.9 | 24.1 | 22.0 | 27.0 |
| 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: P269850

CATALOG NUMBER: GAW-AF-02-LED-U-5WQ-7027-600

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 530.4 | 530.4 | 530.4 | 530.4 | 530.4 | 530.4 | 530.4 | 530.4 |
| 2.5° | 529.0 | 529.3 | 529.3 | 529.7 | 530.0 | 530.0 | 530.7 | 530.7 |
| 5° | 529.3 | 529.3 | 528.7 | 529.0 | 528.7 | 528.7 | 529.0 | 529.0 |
| 7.5° | 528.7 | 528.4 | 527.7 | 527.2 | 526.5 | 526.5 | 526.5 | 526.5 |
| 10° | 527.7 | 527.2 | 526.5 | 526.2 | 525.9 | 525.9 | 525.9 | 525.9 |
| 12.5° | 530.4 | 529.3 | 528.7 | 528.4 | 528.4 | 528.4 | 528.4 | 528.4 |
| 15° | 537.5 | 535.2 | 533.5 | 533.5 | 533.9 | 534.5 | 534.5 | 535.2 |
| 17.5° | 546.4 | 543.7 | 542.0 | 540.7 | 541.4 | 542.3 | 543.0 | 543.7 |
| 20° | 557.2 | 555.8 | 553.4 | 552.0 | 552.0 | 553.4 | 554.1 | 554.4 |
| 22.5° | 572.0 | 571.0 | 569.9 | 568.2 | 568.2 | 568.8 | 570.2 | 570.2 |
| 25° | 593.9 | 593.2 | 592.5 | 591.2 | 590.8 | 590.8 | 591.5 | 592.3 |
| 27.5° | 621.4 | 621.7 | 621.1 | 620.6 | 619.7 | 619.3 | 620.4 | 620.0 |
| 30° | 658.2 | 659.9 | 661.6 | 660.3 | 658.5 | 657.5 | 656.4 | 655.0 |
| 32.5° | 708.0 | 705.9 | 704.5 | 702.1 | 699.1 | 696.2 | 694.2 | 691.9 |
| 35° | 755.0 | 751.6 | 750.3 | 752.3 | 751.9 | 750.3 | 747.7 | 745.8 |
| 37.5° | 812.7 | 812.1 | 812.7 | 816.5 | 815.8 | 817.5 | 812.7 | 812.3 |
| 40° | 885.5 | 886.3 | 891.1 | 895.5 | 897.9 | 900.3 | 897.5 | 894.8 |
| 42.5° | 970.1 | 969.7 | 971.4 | 977.6 | 981.8 | 984.5 | 978.7 | 978.0 |
| 45° | 1059.5 | 1056.9 | 1058.4 | 1063.6 | 1067.6 | 1070.7 | 1064.2 | 1064.2 |
| 47.5° | 1157.6 | 1153.6 | 1149.0 | 1155.0 | 1157.2 | 1159.4 | 1154.2 | 1152.4 |
| 50° | 1267.1 | 1258.6 | 1249.1 | 1251.3 | 1251.3 | 1250.7 | 1244.2 | 1243.9 |
| 52.5° | 1392.9 | 1377.1 | 1359.7 | 1353.0 | 1349.3 | 1345.2 | 1333.9 | 1328.4 |
| 55° | 1537.5 | 1513.9 | 1486.3 | 1469.5 | 1460.6 | 1449.2 | 1430.5 | 1425.3 |
| 57.5° | 1706.6 | 1669.5 | 1622.1 | 1601.5 | 1581.6 | 1563.1 | 1542.0 | 1536.2 |
| 60° | 1906.8 | 1852.2 | 1789.3 | 1751.2 | 1729.5 | 1711.7 | 1690.2 | 1689.1 |
| 62.5° | 2130.2 | 2044.0 | 1972.8 | 1938.5 | 1922.6 | 1906.8 | 1886.3 | 1889.0 |
| 65° | 2357.2 | 2267.2 | 2200.6 | 2172.7 | 2158.0 | 2145.0 | 2124.3 | 2127.4 |
| 67.5° | 2581.2 | 2498.4 | 2425.2 | 2396.7 | 2380.1 | 2363.7 | 2345.1 | 2348.3 |
| 70° | 2741.9 | 2639.2 | 2556.8 | 2493.5 | 2454.1 | 2409.4 | 2380.6 | 2373.3 |
| 72.5° | 2696.0 | 2537.5 | 2406.6 | 2281.2 | 2207.8 | 2147.9 | 2107.5 | 2089.9 |
| 75° | 2333.2 | 2116.8 | 1948.5 | 1794.5 | 1707.9 | 1637.5 | 1586.3 | 1554.3 |
| 77.5° | 1732.7 | 1489.5 | 1290.5 | 1113.3 | 973.1 | 879.0 | 812.7 | 769.8 |
| 80° | 948.4 | 721.3 | 527.2 | 370.6 | 272.4 | 226.4 | 200.0 | 187.1 |
| 82.5° | 295.5 | 190.6 | 140.4 | 121.2 | 112.6 | 107.8 | 99.9 | 87.2 |
| 85° | 94.1 | 82.5 | 76.5 | 73.1 | 69.7 | 60.7 | 42.0 | 38.1 |
| 87.5° | 36.4 | 37.4 | 37.1 | 35.0 | 35.8 | 25.7 | 20.7 | 18.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)