

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: P191009

Luminaire Tested: **GAN-AF-01-LED-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6517.2 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 59
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

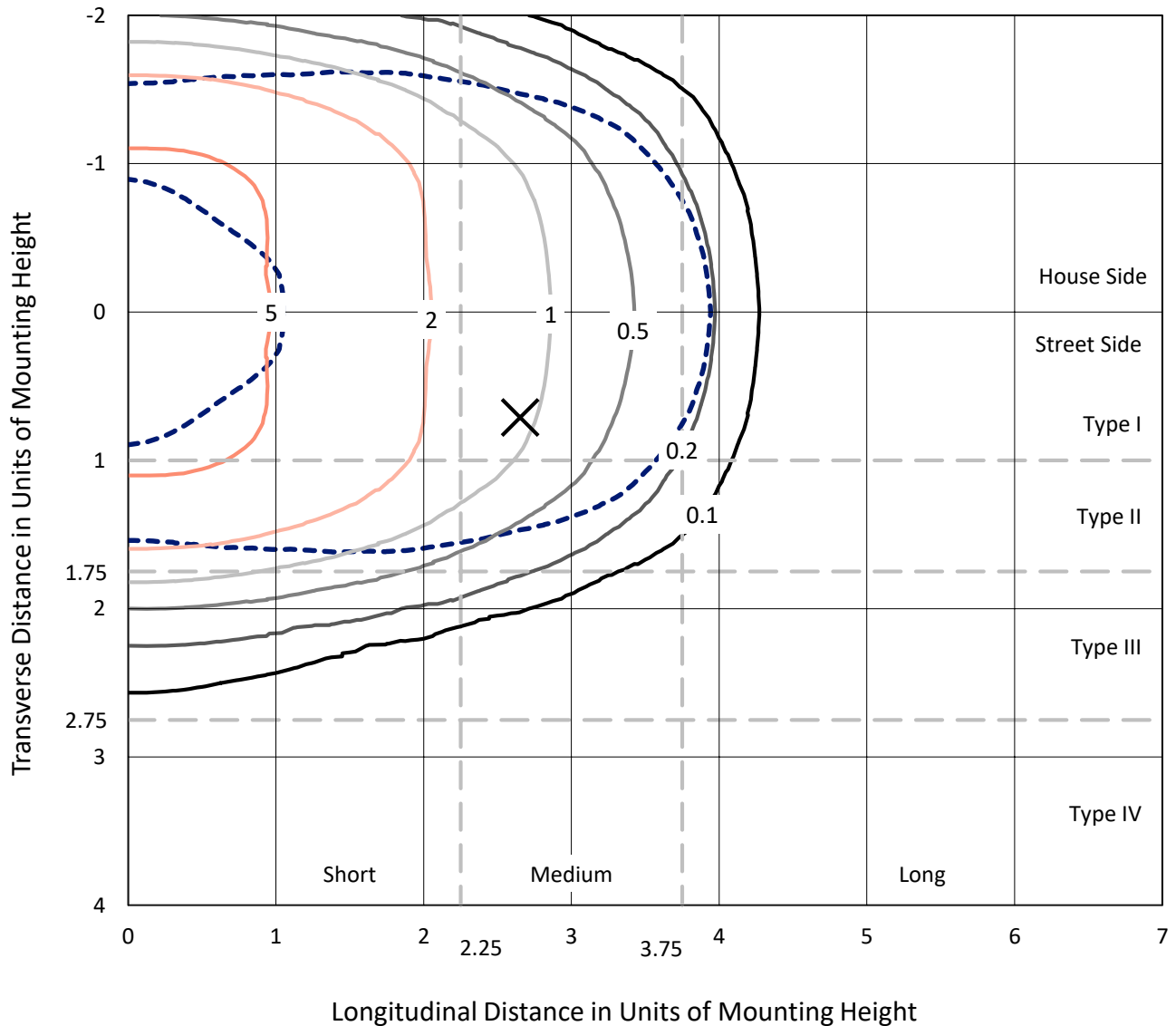


REPORT NUMBER: P191009

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

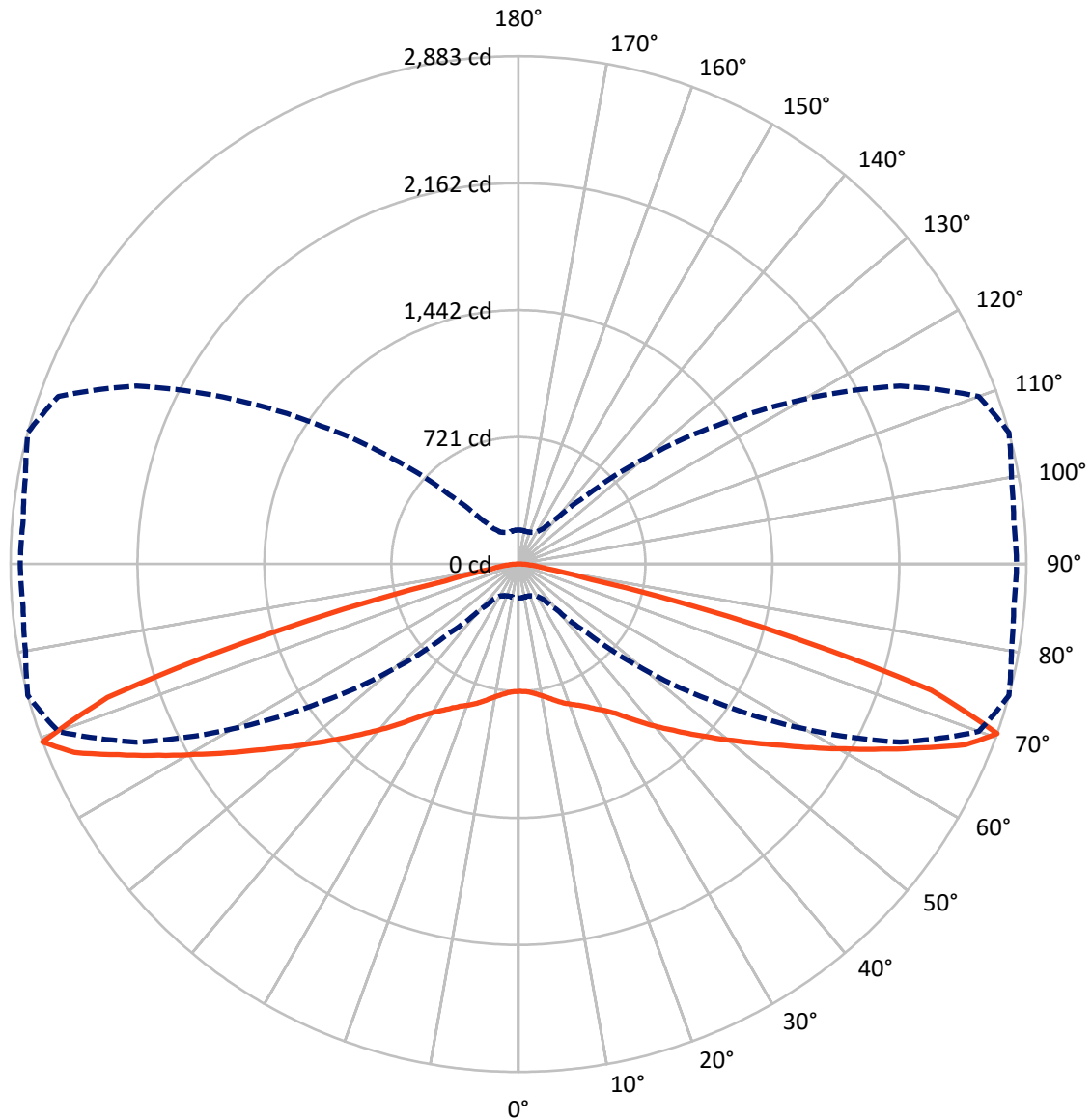


Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Medium - Full Cutoff

REPORT NUMBER: P191009

CATALOG NUMBER: GAN-AF-01-LED-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3258.6 | 0.0 | 3258.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3258.6 | 0.0 | 3258.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6517.2 | 0.0 | 6517.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 69.3 | 1.1 |
| 10°-20° | 215.4 | 3.3 |
| 20°-30° | 405.5 | 6.2 |
| 30°-40° | 718.0 | 11.0 |
| 40°-50° | 1200.7 | 18.4 |
| 50°-60° | 1673.2 | 25.7 |
| 60°-70° | 1551.6 | 23.8 |
| 70°-80° | 618.4 | 9.5 |
| 80°-90° | 65.0 | 1.0 |
| 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° | 6517.2 | 100.0 |
| 0°-180° | 6517.2 | 100.0 |



REPORT NUMBER: P191009

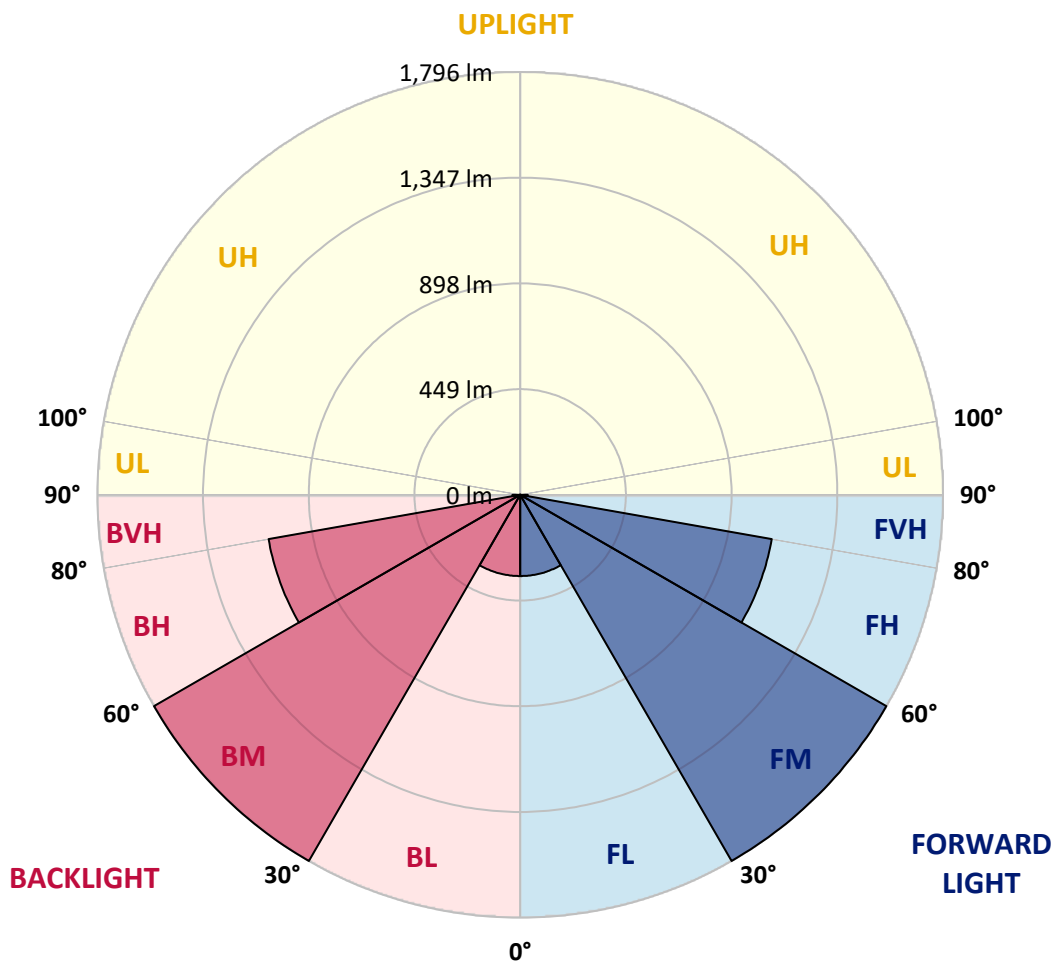
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 345.1 | 5.3 | | | |
| FM | (30°-60°) | 1796.0 | 27.6 | | | |
| FH | (60°-80°) | 1085.0 | 16.6 | | | G1/1800 |
| FVH | (80°-90°) | 32.5 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 345.1 | 5.3 | B1/500 | | |
| BM | (30°-60°) | 1796.0 | 27.6 | B2/2500 | | |
| BH | (60°-80°) | 1085.0 | 16.6 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 32.5 | 0.5 | | | 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 Medium





REPORT NUMBER: P191009

CATALOG NUMBER: GAN-AF-01-LED-U-RW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 722.9 | 722.9 | 722.9 | 722.9 | 722.9 | 722.9 | 722.9 | 722.9 | 722.9 | 722.9 | 722.9 |
| 2.5° | 721.7 | 721.1 | 721.7 | 721.4 | 722.0 | 722.0 | 722.6 | 723.8 | 723.8 | 724.8 | 724.5 |
| 5° | 714.6 | 714.3 | 715.2 | 716.2 | 717.1 | 718.9 | 720.8 | 723.5 | 725.7 | 727.2 | 728.8 |
| 7.5° | 700.7 | 700.7 | 701.9 | 704.1 | 706.2 | 710.2 | 714.6 | 720.2 | 725.7 | 730.3 | 734.3 |
| 10° | 689.4 | 690.0 | 691.5 | 695.2 | 698.9 | 705.0 | 710.8 | 718.9 | 726.6 | 734.3 | 740.5 |
| 12.5° | 682.5 | 683.5 | 686.3 | 691.8 | 698.0 | 706.2 | 715.2 | 725.4 | 734.0 | 743.3 | 749.4 |
| 15° | 684.8 | 685.4 | 689.4 | 696.1 | 704.1 | 714.6 | 726.6 | 738.6 | 748.8 | 758.6 | 767.0 |
| 17.5° | 696.7 | 697.7 | 702.3 | 709.9 | 718.3 | 730.6 | 743.6 | 757.1 | 769.8 | 780.8 | 790.9 |
| 20° | 718.3 | 719.2 | 725.1 | 733.4 | 743.3 | 755.9 | 768.8 | 783.0 | 797.2 | 808.8 | 820.2 |
| 22.5° | 748.8 | 750.3 | 755.9 | 764.1 | 775.3 | 788.8 | 804.2 | 819.3 | 832.9 | 843.6 | 853.9 |
| 25° | 788.8 | 792.2 | 797.5 | 806.7 | 818.4 | 830.7 | 847.3 | 862.8 | 875.6 | 885.9 | 893.2 |
| 27.5° | 845.5 | 850.1 | 854.2 | 863.1 | 874.4 | 886.2 | 902.8 | 916.4 | 928.6 | 938.6 | 944.1 |
| 30° | 920.7 | 925.3 | 929.2 | 937.9 | 948.4 | 959.4 | 975.2 | 987.1 | 994.9 | 1002.6 | 1002.3 |
| 32.5° | 1011.8 | 1016.7 | 1018.3 | 1027.6 | 1038.3 | 1050.4 | 1064.5 | 1071.2 | 1077.5 | 1078.4 | 1072.8 |
| 35° | 1113.8 | 1116.2 | 1122.4 | 1134.8 | 1147.0 | 1156.9 | 1170.5 | 1173.8 | 1173.8 | 1169.2 | 1156.9 |
| 37.5° | 1225.6 | 1227.1 | 1235.7 | 1249.6 | 1262.2 | 1272.4 | 1281.7 | 1288.4 | 1285.0 | 1275.2 | 1254.5 |
| 40° | 1348.1 | 1350.9 | 1363.3 | 1375.6 | 1389.8 | 1399.3 | 1409.2 | 1410.4 | 1407.0 | 1392.5 | 1364.5 |
| 42.5° | 1465.3 | 1467.7 | 1480.0 | 1499.4 | 1517.9 | 1531.2 | 1540.4 | 1542.2 | 1531.5 | 1518.2 | 1483.4 |
| 45° | 1565.9 | 1572.4 | 1588.4 | 1611.2 | 1638.1 | 1656.8 | 1669.5 | 1674.7 | 1665.2 | 1647.9 | 1607.6 |
| 47.5° | 1645.7 | 1652.2 | 1675.0 | 1702.1 | 1735.3 | 1765.8 | 1786.8 | 1797.8 | 1795.4 | 1782.5 | 1738.4 |
| 50° | 1704.2 | 1710.4 | 1735.0 | 1768.3 | 1807.1 | 1845.0 | 1880.7 | 1907.2 | 1916.5 | 1910.7 | 1870.3 |
| 52.5° | 1711.0 | 1721.2 | 1750.2 | 1794.8 | 1845.3 | 1897.1 | 1947.9 | 1992.8 | 2023.4 | 2028.0 | 1998.1 |
| 55° | 1616.5 | 1626.6 | 1666.7 | 1732.9 | 1808.1 | 1892.5 | 1973.8 | 2049.5 | 2109.6 | 2140.4 | 2124.7 |
| 57.5° | 1393.5 | 1411.7 | 1453.8 | 1531.5 | 1642.0 | 1768.3 | 1898.0 | 2032.6 | 2154.8 | 2236.5 | 2252.2 |
| 60° | 1067.9 | 1089.4 | 1132.0 | 1214.5 | 1337.7 | 1488.3 | 1661.5 | 1860.4 | 2076.3 | 2259.9 | 2369.6 |
| 62.5° | 685.1 | 705.3 | 750.0 | 821.7 | 922.2 | 1085.5 | 1271.2 | 1507.4 | 1797.5 | 2087.4 | 2348.6 |
| 65° | 352.1 | 363.1 | 386.6 | 429.9 | 508.2 | 630.2 | 796.9 | 1032.5 | 1364.2 | 1721.8 | 2099.4 |
| 67.5° | 223.0 | 225.2 | 230.4 | 236.5 | 256.6 | 298.8 | 376.3 | 523.3 | 796.3 | 1169.2 | 1611.2 |
| 70° | 192.8 | 192.8 | 190.4 | 189.5 | 191.9 | 197.7 | 209.8 | 244.0 | 336.0 | 555.1 | 929.2 |
| 72.5° | 176.5 | 174.6 | 170.3 | 166.9 | 166.3 | 166.3 | 168.8 | 174.0 | 188.8 | 226.1 | 363.8 |
| 75° | 162.6 | 157.4 | 151.5 | 147.5 | 146.0 | 144.4 | 144.1 | 145.1 | 148.1 | 154.1 | 173.7 |
| 77.5° | 145.7 | 138.9 | 132.2 | 128.2 | 126.3 | 124.1 | 122.2 | 120.1 | 118.6 | 120.4 | 129.1 |
| 80° | 125.3 | 117.6 | 112.4 | 110.0 | 108.1 | 105.1 | 101.1 | 97.3 | 93.9 | 93.3 | 98.6 |
| 82.5° | 101.1 | 92.1 | 92.4 | 93.3 | 89.9 | 85.6 | 81.3 | 77.3 | 71.5 | 68.3 | 71.5 |
| 85° | 81.6 | 77.0 | 74.9 | 80.7 | 75.8 | 69.3 | 62.5 | 55.4 | 46.2 | 38.8 | 42.2 |
| 87.5° | 31.7 | 31.7 | 47.5 | 73.0 | 65.6 | 53.6 | 45.9 | 39.1 | 24.3 | 18.8 | 19.1 |
| 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: P191009

CATALOG NUMBER: GAN-AF-01-LED-U-RW

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 722.9 | 722.9 | 722.9 | 722.9 | 722.9 | 722.9 | 722.9 | 722.9 |
| 2.5° | 724.1 | 724.8 | 724.5 | 724.1 | 724.1 | 723.8 | 724.1 | 724.1 |
| 5° | 729.7 | 731.2 | 731.2 | 731.8 | 731.8 | 732.1 | 732.4 | 732.1 |
| 7.5° | 738.0 | 740.8 | 742.7 | 744.8 | 745.1 | 745.4 | 746.0 | 745.4 |
| 10° | 746.3 | 751.9 | 755.9 | 759.8 | 761.7 | 762.3 | 762.9 | 762.9 |
| 12.5° | 756.8 | 764.5 | 771.6 | 778.7 | 782.0 | 783.9 | 783.9 | 785.1 |
| 15° | 774.1 | 781.7 | 790.0 | 799.6 | 805.5 | 808.5 | 809.5 | 809.5 |
| 17.5° | 798.4 | 805.2 | 812.2 | 821.4 | 828.9 | 832.9 | 833.8 | 833.5 |
| 20° | 826.7 | 833.2 | 837.2 | 843.0 | 849.5 | 854.2 | 855.4 | 855.4 |
| 22.5° | 859.1 | 862.8 | 863.4 | 865.2 | 870.4 | 876.6 | 879.4 | 880.0 |
| 25° | 894.8 | 895.7 | 893.2 | 893.2 | 896.6 | 902.4 | 905.2 | 905.5 |
| 27.5° | 941.0 | 936.4 | 930.2 | 928.0 | 930.2 | 937.0 | 940.4 | 941.6 |
| 30° | 998.6 | 987.5 | 973.3 | 965.7 | 964.4 | 973.3 | 979.5 | 980.4 |
| 32.5° | 1064.5 | 1048.5 | 1029.7 | 1013.9 | 1010.0 | 1015.5 | 1023.0 | 1022.6 |
| 35° | 1142.7 | 1123.6 | 1100.8 | 1080.8 | 1071.5 | 1077.2 | 1087.6 | 1088.8 |
| 37.5° | 1233.0 | 1208.0 | 1181.8 | 1156.5 | 1142.1 | 1143.7 | 1154.7 | 1158.5 |
| 40° | 1333.7 | 1301.4 | 1268.4 | 1234.5 | 1213.9 | 1209.8 | 1223.4 | 1225.6 |
| 42.5° | 1441.5 | 1399.9 | 1358.4 | 1316.4 | 1289.9 | 1283.8 | 1299.6 | 1298.6 |
| 45° | 1556.4 | 1503.4 | 1454.7 | 1408.6 | 1377.1 | 1367.9 | 1380.9 | 1380.9 |
| 47.5° | 1679.9 | 1614.6 | 1556.7 | 1504.4 | 1470.2 | 1456.9 | 1469.3 | 1470.2 |
| 50° | 1810.8 | 1741.5 | 1673.4 | 1615.2 | 1574.2 | 1557.3 | 1573.3 | 1575.9 |
| 52.5° | 1941.2 | 1873.6 | 1805.0 | 1738.4 | 1688.9 | 1668.2 | 1686.6 | 1694.7 |
| 55° | 2073.2 | 2007.0 | 1941.5 | 1876.4 | 1817.6 | 1793.2 | 1813.0 | 1823.1 |
| 57.5° | 2212.7 | 2151.5 | 2089.0 | 2023.4 | 1966.7 | 1928.8 | 1949.7 | 1963.2 |
| 60° | 2376.3 | 2323.9 | 2259.0 | 2186.6 | 2129.3 | 2090.8 | 2102.8 | 2114.8 |
| 62.5° | 2505.7 | 2526.1 | 2470.9 | 2387.2 | 2313.5 | 2264.2 | 2276.0 | 2288.5 |
| 65° | 2443.2 | 2651.7 | 2700.7 | 2616.0 | 2514.0 | 2437.3 | 2432.4 | 2438.8 |
| 67.5° | 2042.1 | 2447.2 | 2742.5 | 2823.2 | 2737.9 | 2631.3 | 2611.7 | 2621.2 |
| 70° | 1366.0 | 1870.6 | 2391.8 | 2779.9 | 2883.0 | 2841.8 | 2822.3 | 2828.2 |
| 72.5° | 656.1 | 1089.4 | 1622.6 | 2138.6 | 2452.7 | 2596.9 | 2643.1 | 2665.6 |
| 75° | 240.0 | 432.5 | 782.0 | 1178.4 | 1422.7 | 1647.0 | 1793.2 | 1853.0 |
| 77.5° | 144.7 | 174.6 | 249.8 | 376.0 | 426.0 | 476.8 | 457.1 | 467.0 |
| 80° | 107.2 | 121.0 | 137.1 | 154.1 | 159.6 | 159.6 | 153.4 | 148.4 |
| 82.5° | 75.2 | 84.1 | 91.8 | 101.1 | 103.5 | 98.9 | 81.3 | 64.7 |
| 85° | 48.4 | 52.4 | 55.8 | 61.6 | 60.0 | 57.3 | 38.5 | 34.2 |
| 87.5° | 22.2 | 25.3 | 26.5 | 29.3 | 28.0 | 26.8 | 19.1 | 16.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)