

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: P400522

Luminaire Tested: **ARCH-L-PA3-90-750-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-90-750-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15472 lumens
Efficiency: N/A
Efficacy: 166.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

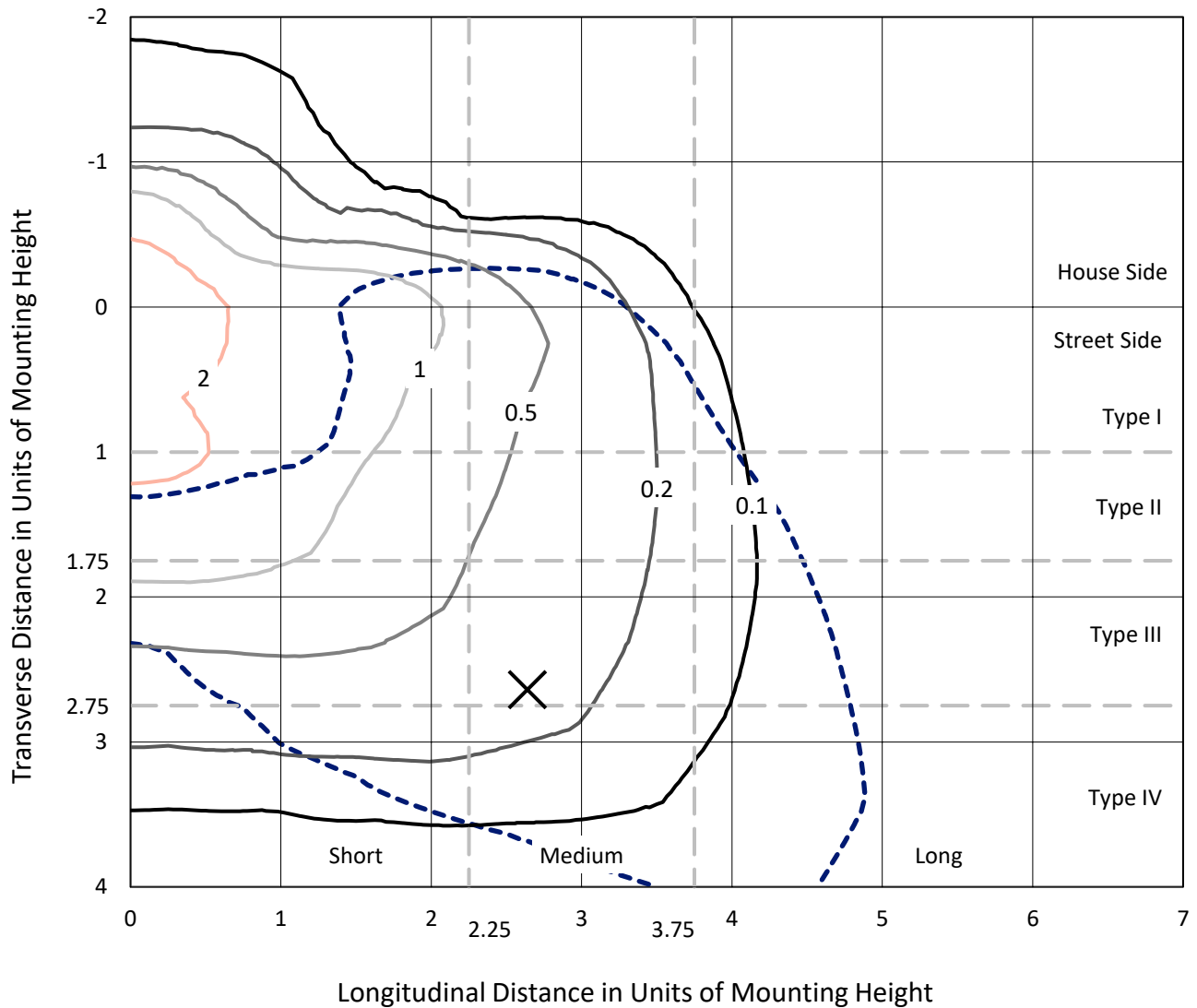
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

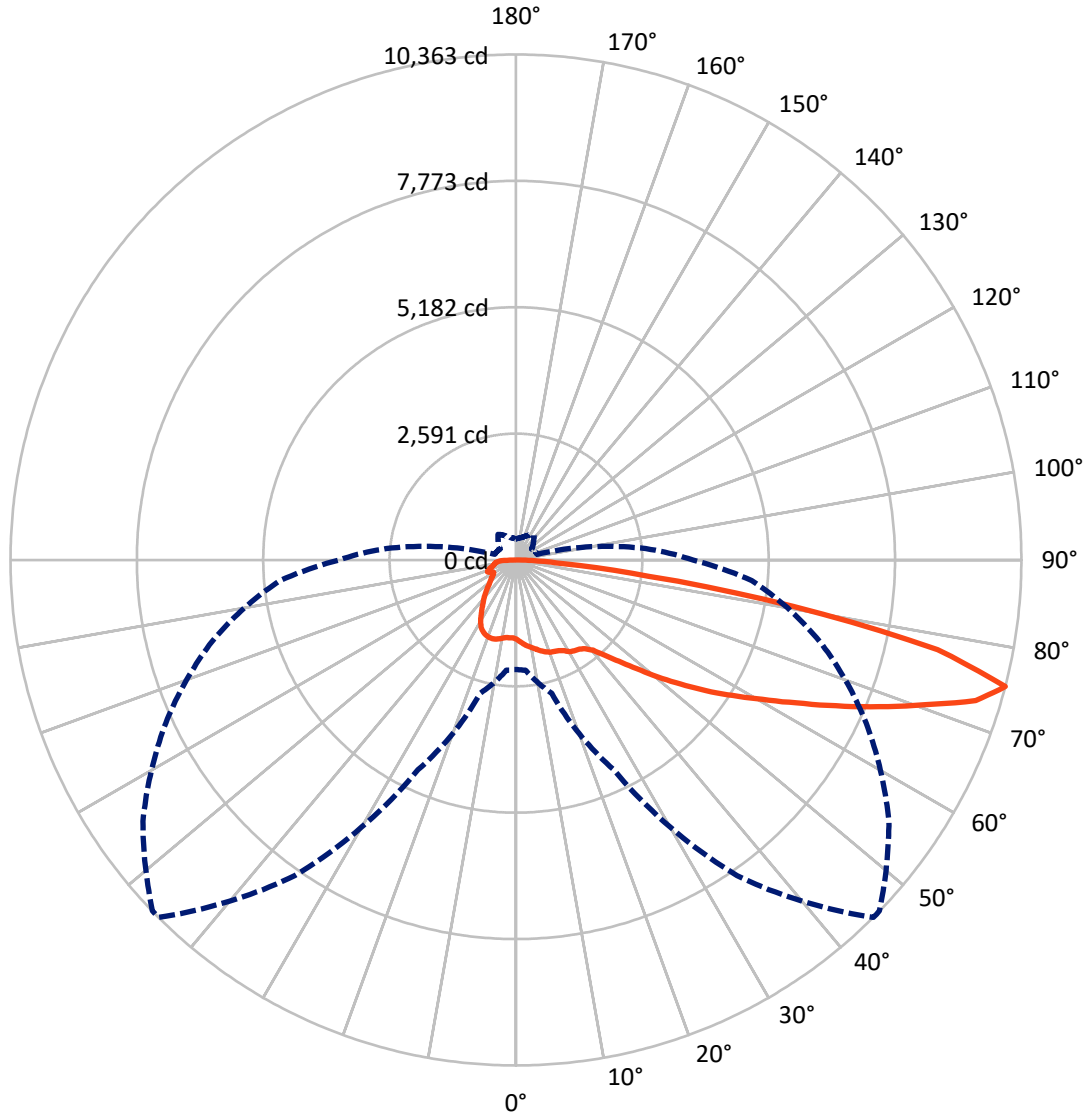
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3419.2 | 0.0 | 3419.2 |
| | % Fixture | 22.1 | 0.0 | 22.1 |
| Street Side | Lumens | 12052.8 | 0.0 | 12052.8 |
| | % Fixture | 77.9 | 0.0 | 77.9 |
| Total | Lumens | 15472.0 | 0.0 | 15472.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 160.7 | 1.0 |
| 10°-20° | 511.4 | 3.3 |
| 20°-30° | 871.9 | 5.6 |
| 30°-40° | 1221.6 | 7.9 |
| 40°-50° | 1794.7 | 11.6 |
| 50°-60° | 2856.3 | 18.5 |
| 60°-70° | 4063.0 | 26.3 |
| 70°-80° | 3402.0 | 22.0 |
| 80°-90° | 590.4 | 3.8 |
| 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° | 15472.0 | 100.0 |
| 0°-180° | 15472.0 | 100.0 |

Coefficient of Utilization



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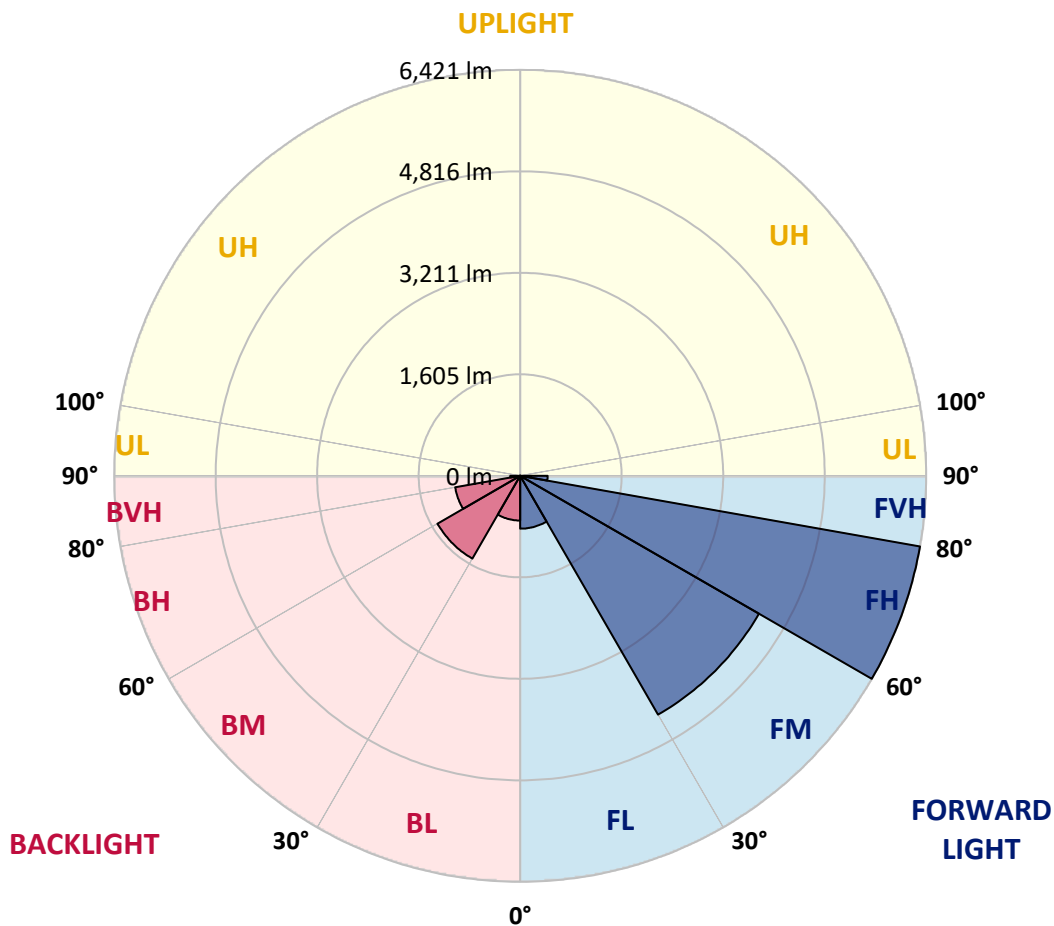
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 836.4 | 5.4 | | | |
| FM (30°-60°) | 4361.1 | 28.2 | | | |
| FH (60°-80°) | 6421.3 | 41.5 | | | G3/7500 |
| FVH (80°-90°) | 434.1 | 2.8 | | | G3/500 |
| BL (0°-30°) | 707.7 | 4.6 | B2/1000 | | |
| BM (30°-60°) | 1511.5 | 9.8 | B2/2500 | | |
| BH (60°-80°) | 1043.8 | 6.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 156.4 | 1.0 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|
| 0° | 1624.9 | 1624.9 | 1624.9 | 1624.9 | 1624.9 | 1624.9 | 1624.9 | 1624.9 | 1624.9 | 1624.9 | 1624.9 |
| 2.5° | 1717.9 | 1709.7 | 1705.5 | 1705.5 | 1689.0 | 1678.6 | 1676.6 | 1662.1 | 1649.7 | 1637.3 | 1627.0 |
| 5° | 1817.2 | 1811.0 | 1798.6 | 1788.2 | 1765.5 | 1736.5 | 1732.4 | 1701.4 | 1670.4 | 1641.4 | 1616.6 |
| 7.5° | 1908.1 | 1895.7 | 1881.2 | 1860.6 | 1823.4 | 1784.1 | 1777.9 | 1734.5 | 1691.1 | 1647.6 | 1614.6 |
| 10° | 1984.6 | 1972.2 | 1951.5 | 1922.6 | 1875.0 | 1827.5 | 1821.3 | 1775.8 | 1730.3 | 1678.6 | 1631.1 |
| 12.5° | 2057.0 | 2046.6 | 2015.6 | 1976.3 | 1920.5 | 1877.1 | 1870.9 | 1831.6 | 1784.1 | 1726.2 | 1664.2 |
| 15° | 2119.0 | 2108.6 | 2075.6 | 2030.1 | 1966.0 | 1932.9 | 1924.7 | 1887.4 | 1839.9 | 1777.9 | 1713.8 |
| 17.5° | 2150.0 | 2150.0 | 2114.8 | 2065.2 | 2005.3 | 1980.5 | 1974.3 | 1928.8 | 1885.4 | 1825.4 | 1761.3 |
| 20° | 2160.3 | 2164.5 | 2139.7 | 2079.7 | 2028.0 | 2017.7 | 2011.5 | 1974.3 | 1924.7 | 1866.8 | 1806.8 |
| 22.5° | 2166.5 | 2174.8 | 2154.1 | 2085.9 | 2042.5 | 2036.3 | 2032.2 | 2007.3 | 1968.1 | 1912.3 | 1852.3 |
| 25° | 2187.2 | 2187.2 | 2172.7 | 2096.2 | 2061.1 | 2059.0 | 2059.0 | 2044.6 | 2017.7 | 1970.1 | 1910.2 |
| 27.5° | 2218.2 | 2216.1 | 2197.5 | 2119.0 | 2102.4 | 2108.6 | 2106.6 | 2104.5 | 2085.9 | 2038.4 | 1974.3 |
| 30° | 2269.9 | 2269.9 | 2249.2 | 2164.5 | 2154.1 | 2181.0 | 2183.1 | 2187.2 | 2158.3 | 2083.8 | 2032.2 |
| 32.5° | 2348.5 | 2340.2 | 2319.5 | 2209.9 | 2193.4 | 2218.2 | 2222.3 | 2220.3 | 2195.5 | 2125.2 | 2100.4 |
| 35° | 2590.3 | 2571.7 | 2497.3 | 2311.2 | 2228.6 | 2243.0 | 2245.1 | 2255.4 | 2259.6 | 2203.7 | 2191.3 |
| 37.5° | 3014.1 | 2989.3 | 2875.6 | 2551.0 | 2340.2 | 2305.0 | 2303.0 | 2329.8 | 2352.6 | 2303.0 | 2303.0 |
| 40° | 3475.1 | 3454.5 | 3388.3 | 2964.5 | 2546.9 | 2431.1 | 2422.9 | 2447.7 | 2476.6 | 2441.5 | 2451.8 |
| 42.5° | 3872.1 | 3888.6 | 3894.8 | 3402.8 | 2857.0 | 2666.8 | 2644.1 | 2608.9 | 2654.4 | 2623.4 | 2664.8 |
| 45° | 4169.7 | 4161.5 | 4275.2 | 3851.4 | 3258.1 | 2962.4 | 2931.4 | 2836.3 | 2894.2 | 2892.2 | 2983.1 |
| 47.5° | 4486.0 | 4471.6 | 4519.1 | 4273.1 | 3714.9 | 3324.2 | 3276.7 | 3136.1 | 3222.9 | 3282.9 | 3433.8 |
| 50° | 4785.8 | 4789.9 | 4806.5 | 4605.9 | 4211.1 | 3764.6 | 3704.6 | 3516.5 | 3640.5 | 3766.6 | 3979.6 |
| 52.5° | 5176.5 | 5147.6 | 5126.9 | 4994.6 | 4767.2 | 4223.5 | 4184.2 | 3969.2 | 4142.9 | 4291.7 | 4574.9 |
| 55° | 5517.6 | 5499.0 | 5486.6 | 5480.4 | 5232.3 | 4730.0 | 4688.6 | 4465.4 | 4715.5 | 4820.9 | 5238.5 |
| 57.5° | 5881.5 | 5871.1 | 5937.3 | 6042.7 | 5943.5 | 5244.7 | 5201.3 | 4986.3 | 5265.4 | 5339.8 | 5958.0 |
| 60° | 6148.2 | 6154.4 | 6336.3 | 6605.0 | 6536.8 | 5802.9 | 5751.2 | 5561.0 | 5800.8 | 5867.0 | 6677.4 |
| 62.5° | 6150.2 | 6212.2 | 6634.0 | 7115.6 | 7194.2 | 6445.8 | 6385.9 | 6179.2 | 6350.7 | 6350.7 | 7322.4 |
| 65° | 5563.1 | 5633.4 | 6580.2 | 7241.8 | 7859.9 | 7210.7 | 7152.9 | 6828.3 | 6892.4 | 6805.6 | 7928.1 |
| 67.5° | 4978.1 | 5060.8 | 5951.8 | 7252.1 | 8327.1 | 8029.4 | 7961.2 | 7477.4 | 7367.9 | 7148.7 | 8351.9 |
| 70° | 4589.4 | 4647.3 | 5391.5 | 7117.7 | 8608.2 | 8885.3 | 8833.6 | 8093.5 | 7742.0 | 7436.1 | 8263.0 |
| 72.5° | 3863.8 | 3843.1 | 4554.3 | 6478.9 | 8765.4 | 9856.9 | 9813.5 | 8763.3 | 8066.6 | 7299.6 | 7047.4 |
| 75° | 2243.0 | 2267.8 | 2826.0 | 4746.5 | 7901.2 | 10363.4 | 10359.2 | 9335.9 | 7924.0 | 6447.9 | 4856.1 |
| 77.5° | 647.1 | 665.7 | 928.2 | 2085.9 | 4996.7 | 8839.8 | 9123.0 | 8538.0 | 6698.1 | 4595.6 | 2518.0 |
| 80° | 283.2 | 297.7 | 403.1 | 694.6 | 2152.1 | 5774.0 | 6022.0 | 5774.0 | 4039.5 | 2108.6 | 988.2 |
| 82.5° | 167.5 | 177.8 | 262.5 | 430.0 | 1031.6 | 2747.4 | 3082.3 | 2691.6 | 1742.7 | 895.1 | 409.3 |
| 85° | 95.1 | 99.2 | 150.9 | 272.9 | 649.1 | 961.3 | 1079.1 | 1010.9 | 849.7 | 508.6 | 215.0 |
| 87.5° | 43.4 | 45.5 | 74.4 | 128.2 | 363.8 | 324.6 | 337.0 | 446.5 | 492.0 | 310.1 | 107.5 |
| 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: ARCH-L-PA3-90-750-U-T4W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1624.9 | 1624.9 | 1624.9 | 1624.9 | 1624.9 | 1624.9 | 1624.9 | 1624.9 | 1624.9 | 1624.9 | 1624.9 |
| 2.5° | 1622.8 | 1616.6 | 1604.2 | 1600.1 | 1593.9 | 1596.0 | 1598.0 | 1598.0 | 1600.1 | 1593.9 | 1593.9 |
| 5° | 1606.3 | 1596.0 | 1583.6 | 1583.6 | 1583.6 | 1600.1 | 1614.6 | 1622.8 | 1627.0 | 1627.0 | 1622.8 |
| 7.5° | 1600.1 | 1587.7 | 1573.2 | 1577.4 | 1581.5 | 1602.2 | 1629.0 | 1655.9 | 1664.2 | 1664.2 | 1660.0 |
| 10° | 1612.5 | 1600.1 | 1589.8 | 1596.0 | 1606.3 | 1622.8 | 1643.5 | 1668.3 | 1689.0 | 1691.1 | 1689.0 |
| 12.5° | 1641.4 | 1627.0 | 1616.6 | 1629.0 | 1641.4 | 1651.8 | 1662.1 | 1672.4 | 1699.3 | 1703.5 | 1703.5 |
| 15° | 1689.0 | 1674.5 | 1662.1 | 1672.4 | 1676.6 | 1676.6 | 1676.6 | 1676.6 | 1703.5 | 1707.6 | 1707.6 |
| 17.5° | 1736.5 | 1724.1 | 1711.7 | 1713.8 | 1701.4 | 1684.9 | 1678.6 | 1676.6 | 1691.1 | 1703.5 | 1705.5 |
| 20° | 1782.0 | 1771.7 | 1759.3 | 1738.6 | 1707.6 | 1676.6 | 1666.2 | 1666.2 | 1674.5 | 1693.1 | 1693.1 |
| 22.5° | 1831.6 | 1819.2 | 1798.6 | 1751.0 | 1699.3 | 1655.9 | 1645.6 | 1651.8 | 1662.1 | 1686.9 | 1684.9 |
| 25° | 1887.4 | 1870.9 | 1835.8 | 1746.9 | 1672.4 | 1620.8 | 1622.8 | 1641.4 | 1660.0 | 1686.9 | 1686.9 |
| 27.5° | 1949.5 | 1926.7 | 1856.4 | 1713.8 | 1612.5 | 1562.9 | 1581.5 | 1624.9 | 1651.8 | 1680.7 | 1684.9 |
| 30° | 2017.7 | 1997.0 | 1873.0 | 1655.9 | 1515.3 | 1469.9 | 1515.3 | 1585.6 | 1627.0 | 1653.8 | 1660.0 |
| 32.5° | 2100.4 | 2083.8 | 1887.4 | 1581.5 | 1389.2 | 1349.9 | 1416.1 | 1502.9 | 1569.1 | 1600.1 | 1606.3 |
| 35° | 2203.7 | 2187.2 | 1906.1 | 1496.7 | 1271.4 | 1230.0 | 1290.0 | 1378.9 | 1465.7 | 1505.0 | 1517.4 |
| 37.5° | 2338.1 | 2313.3 | 1922.6 | 1405.8 | 1172.2 | 1124.6 | 1153.6 | 1234.2 | 1312.7 | 1366.5 | 1381.0 |
| 40° | 2509.7 | 2470.4 | 1937.1 | 1302.4 | 1085.3 | 1031.6 | 1041.9 | 1081.2 | 1126.7 | 1174.2 | 1192.8 |
| 42.5° | 2751.6 | 2673.0 | 1939.1 | 1192.8 | 996.4 | 946.8 | 942.7 | 955.1 | 955.1 | 955.1 | 961.3 |
| 45° | 3088.5 | 2939.7 | 1943.3 | 1089.5 | 905.5 | 853.8 | 841.4 | 837.3 | 806.2 | 746.3 | 742.2 |
| 47.5° | 3514.4 | 3289.1 | 1961.9 | 1002.6 | 810.4 | 764.9 | 748.4 | 731.8 | 673.9 | 611.9 | 599.5 |
| 50° | 4060.2 | 3694.3 | 1999.1 | 919.9 | 729.8 | 698.7 | 678.1 | 638.8 | 574.7 | 527.2 | 514.8 |
| 52.5° | 4688.6 | 4175.9 | 2034.2 | 833.1 | 669.8 | 649.1 | 624.3 | 576.8 | 508.6 | 479.6 | 475.5 |
| 55° | 5410.1 | 4713.4 | 2104.5 | 756.6 | 618.1 | 603.7 | 580.9 | 535.4 | 483.7 | 463.1 | 461.0 |
| 57.5° | 6148.2 | 5315.0 | 2203.7 | 688.4 | 568.5 | 560.2 | 560.2 | 521.0 | 487.9 | 479.6 | 479.6 |
| 60° | 6859.3 | 5831.9 | 2127.3 | 624.3 | 523.0 | 527.2 | 566.4 | 556.1 | 531.3 | 541.6 | 547.8 |
| 62.5° | 7411.3 | 6135.7 | 1726.2 | 572.6 | 490.0 | 527.2 | 628.5 | 628.5 | 599.5 | 595.4 | 595.4 |
| 65° | 7646.9 | 6131.6 | 1213.5 | 533.4 | 477.5 | 578.8 | 700.8 | 667.7 | 591.2 | 562.3 | 556.1 |
| 67.5° | 7587.0 | 5862.9 | 837.3 | 506.5 | 473.4 | 632.6 | 733.9 | 640.9 | 554.0 | 529.2 | 510.6 |
| 70° | 7059.8 | 5294.4 | 645.0 | 481.7 | 467.2 | 609.9 | 723.6 | 609.9 | 525.1 | 502.4 | 485.8 |
| 72.5° | 5695.4 | 4246.2 | 535.4 | 456.9 | 442.4 | 564.4 | 688.4 | 580.9 | 502.4 | 477.5 | 461.0 |
| 75° | 3632.2 | 2671.0 | 452.7 | 423.8 | 394.9 | 506.5 | 640.9 | 552.0 | 477.5 | 444.5 | 432.1 |
| 77.5° | 1746.9 | 1151.5 | 394.9 | 384.5 | 355.6 | 469.3 | 593.3 | 514.8 | 444.5 | 417.6 | 409.3 |
| 80° | 707.0 | 527.2 | 343.2 | 345.2 | 326.6 | 446.5 | 560.2 | 479.6 | 411.4 | 382.5 | 368.0 |
| 82.5° | 368.0 | 306.0 | 289.4 | 297.7 | 297.7 | 425.9 | 535.4 | 450.7 | 382.5 | 370.0 | 322.5 |
| 85° | 198.5 | 190.2 | 223.3 | 239.8 | 258.4 | 384.5 | 498.2 | 419.7 | 349.4 | 299.8 | 289.4 |
| 87.5° | 97.2 | 124.0 | 126.1 | 144.7 | 179.9 | 308.0 | 419.7 | 351.4 | 291.5 | 241.9 | 237.7 |
| 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)