

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: P149075

Luminaire Tested: **TMU-F03-LED-E-U-RW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P149075  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: TMU-F03-LED-E-U-RW  
Description: TALON MEDIUM LED AREA LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE  
Light Source: (21) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7736.7 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G1

Input Watts (W): 78.3  
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

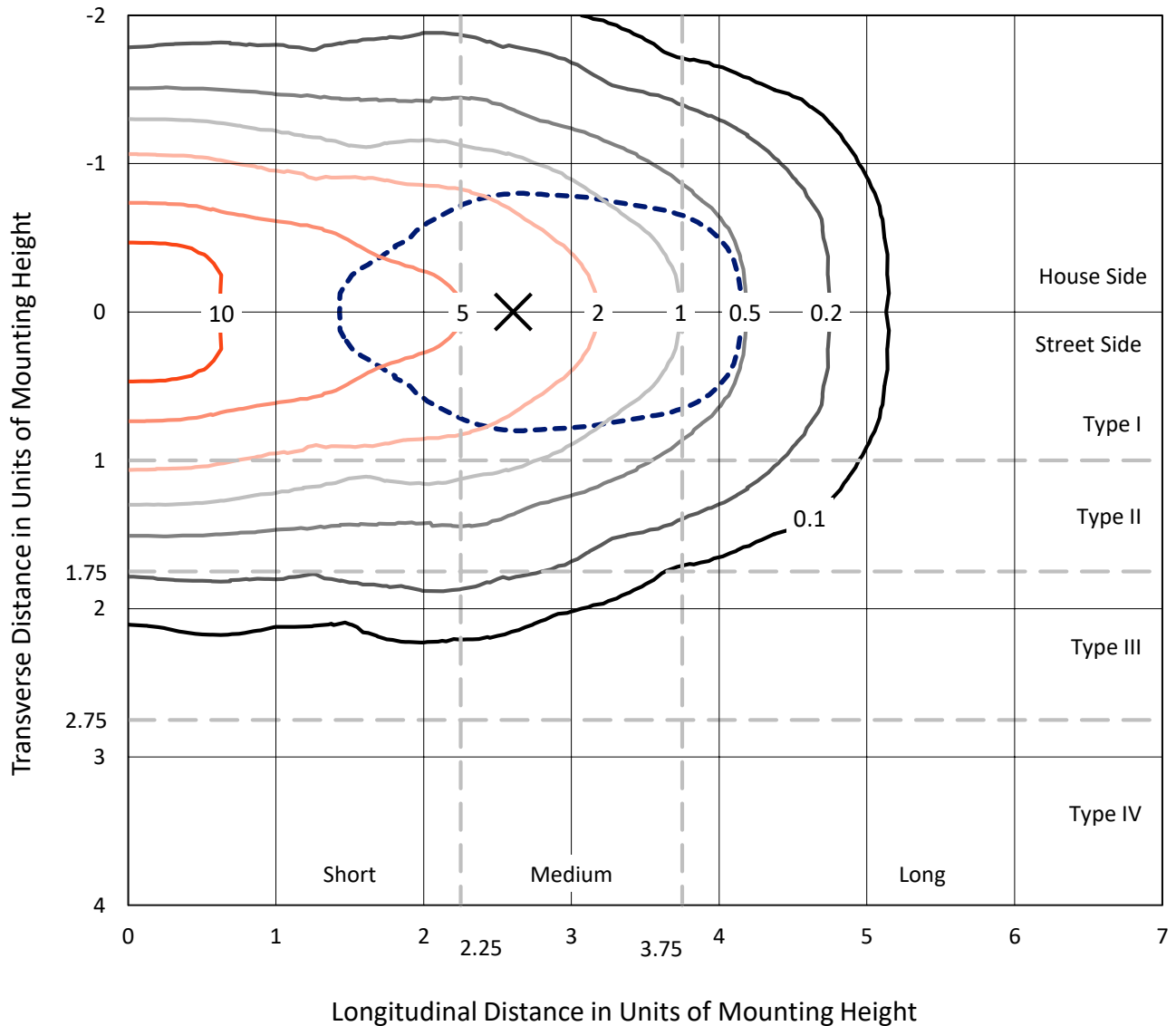


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

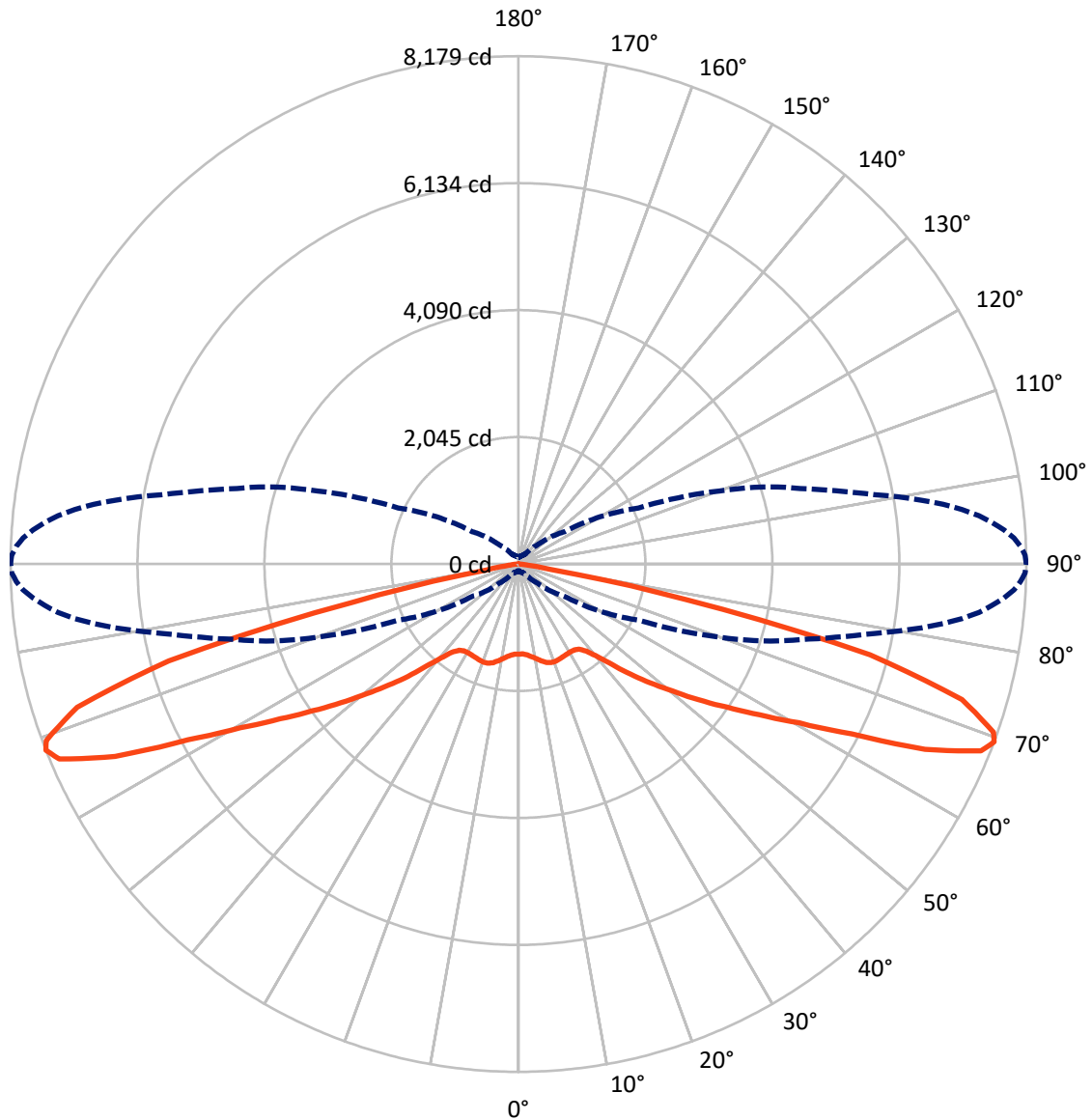


Based on 10 foot mounting height. Maximum calculated value = 14.8 fc  
 Type V - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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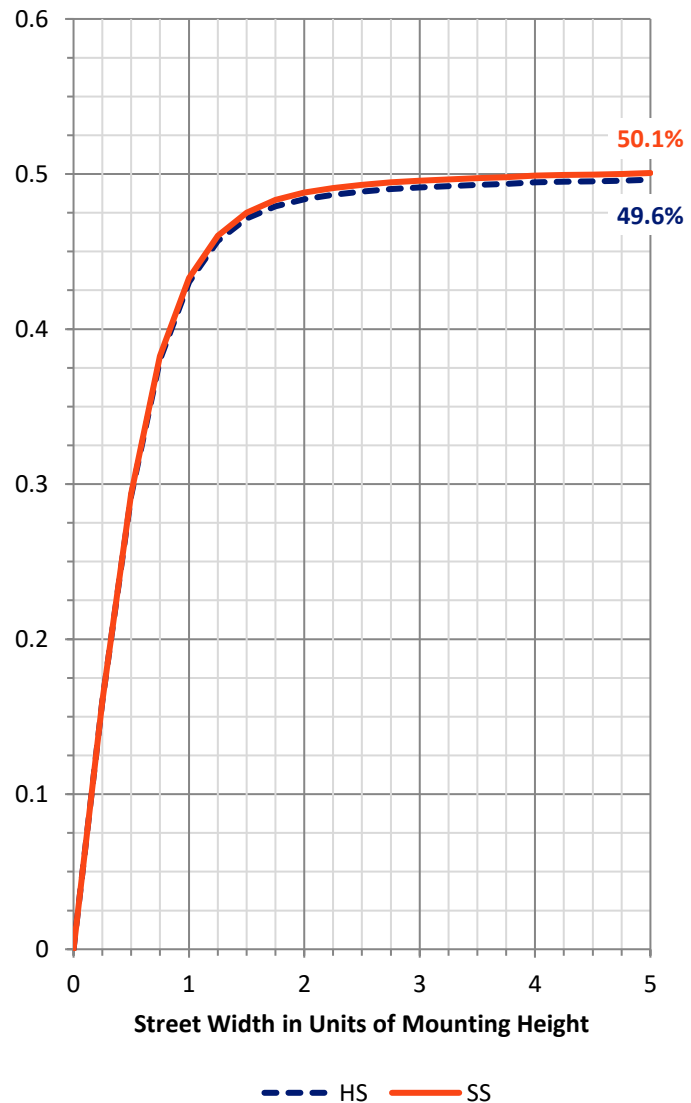
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3868.3   | 0.0    | 3868.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3868.3   | 0.0    | 3868.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 7736.7   | 0.0    | 7736.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 142.2  | 1.8       |
| 10°-20°   | 448.6  | 5.8       |
| 20°-30°   | 726.7  | 9.4       |
| 30°-40°   | 905.7  | 11.7      |
| 40°-50°   | 1131.7 | 14.6      |
| 50°-60°   | 1397.5 | 18.1      |
| 60°-70°   | 1736.4 | 22.4      |
| 70°-80°   | 1152.7 | 14.9      |
| 80°-90°   | 95.2   | 1.2       |
| 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°    | 7736.7 | 100.0     |
| 0°-180°   | 7736.7 | 100.0     |

**Coefficient of Utilization**



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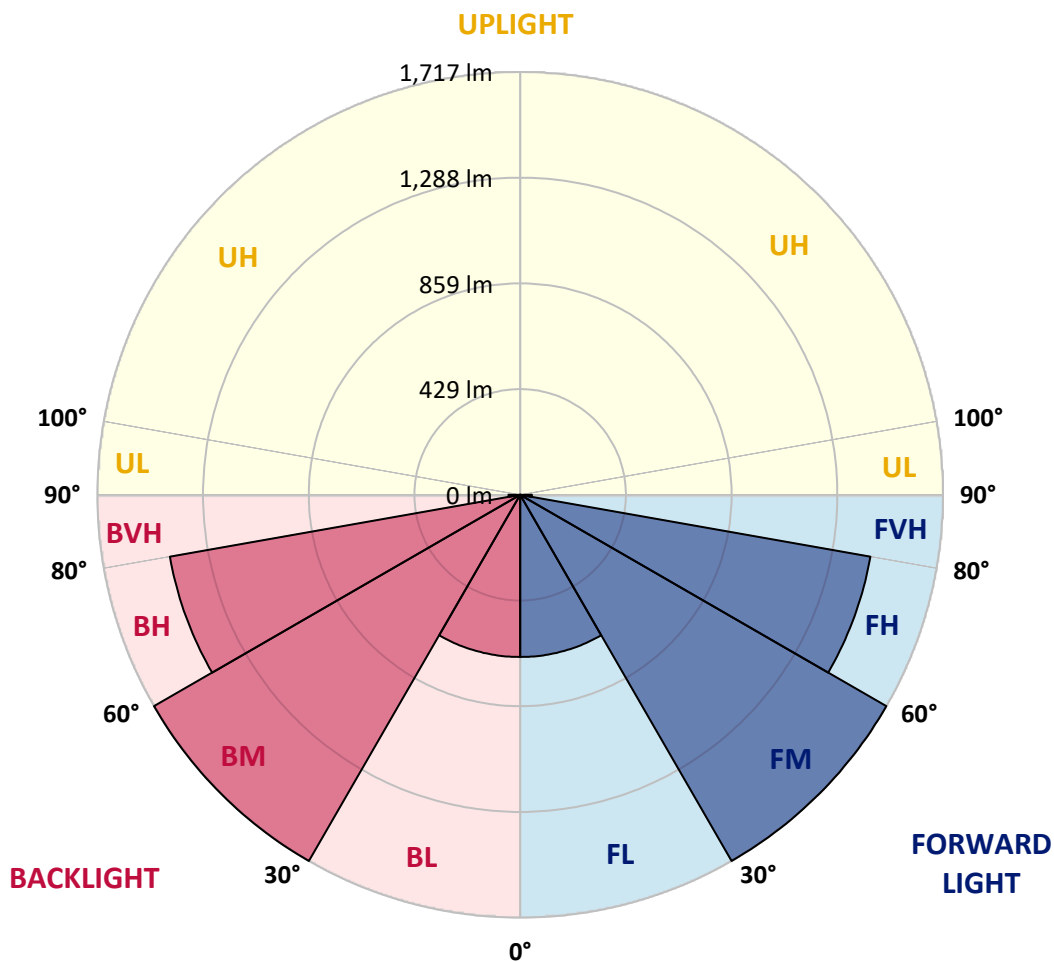
CATALOG NUMBER: TMU-F03-LED-E-U-RW

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 658.7  | 8.5       |                         |      |         |
| FM   | (30°-60°)   | 1717.4 | 22.2      |                         |      |         |
| FH   | (60°-80°)   | 1444.6 | 18.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 47.6   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 658.7  | 8.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1717.4 | 22.2      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1444.6 | 18.7      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 47.6   | 0.6       |                         |      | 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





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 67°    | 68°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 |
| 2.5°  | 1456.2 | 1457.4 | 1456.6 | 1458.2 | 1457.8 | 1457.9 | 1457.1 | 1455.4 | 1455.2 | 1455.0 | 1454.8 |
| 5°    | 1470.2 | 1468.6 | 1471.0 | 1473.6 | 1472.8 | 1473.1 | 1472.8 | 1472.8 | 1472.6 | 1472.4 | 1472.2 |
| 7.5°  | 1485.1 | 1484.7 | 1486.4 | 1493.0 | 1493.8 | 1496.2 | 1499.1 | 1501.2 | 1501.3 | 1501.4 | 1501.5 |
| 10°   | 1497.9 | 1498.3 | 1502.5 | 1512.0 | 1516.9 | 1524.8 | 1532.6 | 1538.8 | 1539.2 | 1539.7 | 1540.1 |
| 12.5° | 1508.2 | 1508.6 | 1514.8 | 1529.7 | 1541.6 | 1556.5 | 1573.4 | 1583.0 | 1583.8 | 1584.6 | 1585.4 |
| 15°   | 1509.0 | 1510.3 | 1521.0 | 1545.4 | 1569.3 | 1593.7 | 1613.9 | 1626.7 | 1627.4 | 1628.0 | 1628.7 |
| 17.5° | 1498.3 | 1499.2 | 1517.4 | 1553.2 | 1593.2 | 1631.2 | 1652.3 | 1658.0 | 1658.3 | 1658.6 | 1658.8 |
| 20°   | 1470.2 | 1472.3 | 1497.9 | 1551.2 | 1612.2 | 1661.8 | 1683.6 | 1675.8 | 1675.1 | 1674.3 | 1673.5 |
| 22.5° | 1424.8 | 1424.4 | 1457.8 | 1529.7 | 1615.9 | 1685.8 | 1705.1 | 1684.4 | 1682.0 | 1679.6 | 1677.2 |
| 25°   | 1351.4 | 1356.4 | 1395.6 | 1481.4 | 1594.9 | 1691.0 | 1720.4 | 1689.0 | 1685.5 | 1682.0 | 1678.5 |
| 27.5° | 1271.8 | 1274.6 | 1316.3 | 1408.4 | 1545.8 | 1672.5 | 1727.8 | 1698.1 | 1694.2 | 1690.3 | 1686.4 |
| 30°   | 1178.8 | 1182.6 | 1227.2 | 1323.4 | 1467.0 | 1624.6 | 1725.8 | 1718.8 | 1714.2 | 1709.6 | 1705.0 |
| 32.5° | 1088.1 | 1092.2 | 1132.2 | 1237.5 | 1383.9 | 1559.0 | 1713.4 | 1748.0 | 1743.3 | 1738.6 | 1733.9 |
| 35°   | 993.9  | 1000.1 | 1048.8 | 1155.4 | 1304.0 | 1486.0 | 1694.4 | 1785.6 | 1783.0 | 1780.4 | 1777.8 |
| 37.5° | 916.0  | 917.2  | 964.2  | 1076.1 | 1229.6 | 1416.2 | 1669.2 | 1833.1 | 1835.0 | 1836.9 | 1838.8 |
| 40°   | 828.8  | 836.6  | 883.8  | 1001.8 | 1162.4 | 1357.2 | 1645.3 | 1897.4 | 1907.3 | 1917.2 | 1927.1 |
| 42.5° | 750.8  | 751.6  | 799.5  | 921.3  | 1089.3 | 1309.7 | 1632.1 | 1975.0 | 1996.1 | 2017.2 | 2038.3 |
| 45°   | 668.7  | 671.9  | 715.4  | 833.0  | 1005.0 | 1253.6 | 1631.6 | 2064.6 | 2098.3 | 2132.0 | 2165.7 |
| 47.5° | 591.0  | 592.3  | 638.2  | 747.5  | 908.5  | 1175.2 | 1628.8 | 2160.8 | 2206.7 | 2252.5 | 2298.4 |
| 50°   | 516.8  | 515.6  | 560.5  | 665.8  | 813.2  | 1072.4 | 1603.6 | 2269.8 | 2327.7 | 2385.6 | 2443.5 |
| 52.5° | 431.8  | 437.6  | 484.2  | 584.9  | 726.4  | 967.9  | 1530.1 | 2389.0 | 2458.3 | 2527.6 | 2596.8 |
| 55°   | 348.4  | 350.8  | 400.8  | 494.9  | 638.6  | 870.5  | 1402.2 | 2498.8 | 2580.5 | 2662.1 | 2743.8 |
| 57.5° | 256.7  | 264.2  | 307.9  | 400.8  | 549.4  | 788.4  | 1239.6 | 2555.8 | 2655.2 | 2754.5 | 2853.9 |
| 60°   | 181.2  | 187.0  | 225.8  | 303.8  | 451.6  | 702.1  | 1099.6 | 2524.0 | 2653.2 | 2782.3 | 2911.4 |
| 62.5° | 141.2  | 145.7  | 176.6  | 227.4  | 352.0  | 615.8  | 999.2  | 2421.3 | 2597.0 | 2772.6 | 2948.3 |
| 65°   | 123.8  | 128.0  | 156.0  | 182.0  | 262.9  | 528.0  | 944.4  | 2312.8 | 2545.0 | 2777.2 | 3009.4 |
| 67.5° | 111.8  | 116.8  | 141.2  | 159.3  | 214.2  | 460.6  | 930.0  | 2244.1 | 2507.2 | 2770.2 | 3033.2 |
| 69°   | 106.5  | 111.4  | 133.3  | 148.6  | 199.0  | 436.8  | 905.2  | 2136.5 | 2398.0 | 2659.5 | 2920.9 |
| 70°   | 103.2  | 107.3  | 127.6  | 143.2  | 194.0  | 420.2  | 863.9  | 2001.9 | 2258.7 | 2515.5 | 2772.2 |
| 72.5° | 95.8   | 97.8   | 115.6  | 130.8  | 180.0  | 339.7  | 664.5  | 1486.8 | 1709.4 | 1932.0 | 2154.6 |
| 75°   | 84.6   | 87.1   | 103.6  | 118.4  | 140.4  | 211.0  | 420.6  | 919.6  | 1085.8 | 1252.0 | 1418.2 |
| 77.5° | 73.0   | 75.2   | 89.6   | 113.1  | 109.0  | 131.6  | 251.4  | 511.8  | 608.2  | 704.6  | 801.0  |
| 80°   | 58.6   | 61.0   | 73.8   | 112.3  | 90.0   | 102.4  | 180.8  | 357.8  | 383.9  | 409.9  | 435.9  |
| 82.5° | 42.9   | 45.0   | 57.8   | 90.8   | 68.9   | 77.2   | 137.9  | 303.4  | 312.4  | 321.4  | 330.5  |
| 85°   | 21.9   | 22.3   | 36.8   | 55.3   | 43.8   | 40.0   | 77.6   | 207.6  | 213.4  | 219.2  | 225.0  |
| 87.5° | 3.7    | 3.7    | 8.2    | 9.5    | 10.8   | 6.6    | 9.9    | 35.5   | 36.6   | 37.7   | 38.9   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    | 76°    | 77°    | 78°    | 79°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 |
| 2.5°  | 1454.6 | 1454.4 | 1453.7 | 1453.8 | 1454.3 | 1454.0 | 1454.6 | 1454.6 | 1455.1 | 1453.6 | 1453.3 |
| 5°    | 1472.1 | 1471.9 | 1471.8 | 1471.8 | 1472.1 | 1472.0 | 1472.4 | 1473.0 | 1472.8 | 1471.8 | 1471.7 |
| 7.5°  | 1501.6 | 1501.6 | 1502.1 | 1501.6 | 1502.4 | 1502.0 | 1501.2 | 1502.6 | 1503.4 | 1503.6 | 1504.4 |
| 10°   | 1540.6 | 1541.1 | 1542.5 | 1542.3 | 1543.7 | 1543.5 | 1543.8 | 1545.1 | 1546.1 | 1546.3 | 1547.3 |
| 12.5° | 1586.2 | 1587.1 | 1587.8 | 1588.6 | 1590.2 | 1589.3 | 1591.2 | 1592.0 | 1593.3 | 1595.8 | 1594.5 |
| 15°   | 1629.3 | 1630.0 | 1632.2 | 1632.4 | 1633.8 | 1634.4 | 1636.1 | 1636.9 | 1637.2 | 1639.2 | 1639.6 |
| 17.5° | 1659.1 | 1659.3 | 1660.2 | 1659.7 | 1661.0 | 1660.5 | 1661.8 | 1662.4 | 1663.5 | 1664.6 | 1666.5 |
| 20°   | 1672.7 | 1671.9 | 1671.5 | 1671.0 | 1670.1 | 1668.9 | 1669.2 | 1669.8 | 1670.0 | 1671.0 | 1672.4 |
| 22.5° | 1674.8 | 1672.3 | 1669.8 | 1668.1 | 1665.6 | 1663.5 | 1661.4 | 1661.6 | 1661.7 | 1661.4 | 1662.4 |
| 25°   | 1675.0 | 1671.5 | 1667.5 | 1662.8 | 1659.3 | 1654.6 | 1650.6 | 1650.3 | 1649.2 | 1649.2 | 1649.7 |
| 27.5° | 1682.4 | 1678.5 | 1673.0 | 1667.5 | 1660.0 | 1653.7 | 1647.3 | 1645.1 | 1642.9 | 1641.5 | 1640.9 |
| 30°   | 1700.4 | 1695.8 | 1689.2 | 1682.3 | 1674.1 | 1664.2 | 1655.2 | 1652.4 | 1649.1 | 1646.3 | 1643.9 |
| 32.5° | 1729.2 | 1724.5 | 1717.2 | 1710.0 | 1699.0 | 1689.3 | 1680.4 | 1675.8 | 1671.3 | 1666.3 | 1661.8 |
| 35°   | 1775.2 | 1772.6 | 1766.2 | 1759.8 | 1751.8 | 1744.1 | 1736.0 | 1730.9 | 1723.4 | 1719.5 | 1714.0 |
| 37.5° | 1840.7 | 1842.6 | 1842.6 | 1843.4 | 1840.9 | 1837.2 | 1831.4 | 1826.0 | 1823.6 | 1813.2 | 1806.6 |
| 40°   | 1936.9 | 1946.8 | 1955.8 | 1962.8 | 1969.0 | 1975.1 | 1980.4 | 1977.3 | 1978.3 | 1975.5 | 1971.6 |
| 42.5° | 2059.4 | 2080.5 | 2099.8 | 2119.1 | 2133.0 | 2154.8 | 2169.9 | 2174.7 | 2186.9 | 2191.7 | 2200.6 |
| 45°   | 2199.4 | 2233.0 | 2265.4 | 2295.3 | 2323.1 | 2354.2 | 2384.5 | 2407.0 | 2431.7 | 2459.6 | 2487.5 |
| 47.5° | 2344.3 | 2390.1 | 2437.8 | 2476.8 | 2517.0 | 2563.1 | 2603.3 | 2637.2 | 2681.5 | 2722.4 | 2767.5 |
| 50°   | 2501.4 | 2559.4 | 2613.6 | 2661.7 | 2713.5 | 2766.6 | 2821.6 | 2871.5 | 2931.3 | 2996.8 | 3067.7 |
| 52.5° | 2666.1 | 2735.4 | 2798.2 | 2858.5 | 2919.3 | 2980.1 | 3038.8 | 3109.1 | 3182.9 | 3269.4 | 3358.0 |
| 55°   | 2825.4 | 2907.0 | 2978.3 | 3045.4 | 3115.0 | 3182.9 | 3243.5 | 3337.7 | 3428.2 | 3531.4 | 3647.1 |
| 57.5° | 2953.2 | 3052.6 | 3134.7 | 3214.4 | 3292.9 | 3365.2 | 3439.6 | 3545.8 | 3661.1 | 3781.8 | 3928.5 |
| 60°   | 3040.5 | 3169.6 | 3274.5 | 3370.4 | 3466.6 | 3557.5 | 3643.0 | 3781.8 | 3919.1 | 4069.0 | 4251.7 |
| 62.5° | 3124.0 | 3299.6 | 3436.5 | 3567.2 | 3697.1 | 3813.7 | 3920.0 | 4094.7 | 4273.9 | 4459.3 | 4676.5 |
| 65°   | 3241.6 | 3473.8 | 3675.4 | 3857.6 | 4037.3 | 4208.8 | 4367.8 | 4589.2 | 4815.4 | 5059.5 | 5318.8 |
| 67.5° | 3296.2 | 3559.2 | 3821.8 | 4067.3 | 4295.6 | 4512.7 | 4717.0 | 4984.6 | 5250.9 | 5533.7 | 5847.1 |
| 69°   | 3182.4 | 3443.9 | 3724.5 | 3992.8 | 4244.9 | 4475.2 | 4696.4 | 4969.5 | 5246.4 | 5535.3 | 5851.4 |
| 70°   | 3029.0 | 3285.8 | 3569.1 | 3849.5 | 4090.7 | 4330.6 | 4559.8 | 4830.8 | 5111.3 | 5401.0 | 5731.8 |
| 72.5° | 2377.2 | 2599.8 | 2876.0 | 3148.2 | 3390.2 | 3630.9 | 3853.6 | 4131.0 | 4413.3 | 4717.5 | 5030.8 |
| 75°   | 1584.4 | 1750.6 | 1956.4 | 2208.8 | 2430.7 | 2643.5 | 2859.2 | 3093.8 | 3369.3 | 3620.0 | 3906.6 |
| 77.5° | 897.3  | 993.7  | 1113.3 | 1277.4 | 1436.7 | 1564.1 | 1718.0 | 1828.3 | 1988.2 | 2126.2 | 2272.1 |
| 80°   | 461.9  | 487.9  | 523.6  | 563.0  | 585.4  | 581.8  | 604.7  | 582.1  | 587.1  | 568.6  | 548.9  |
| 82.5° | 339.5  | 348.6  | 364.7  | 372.6  | 371.8  | 345.8  | 318.2  | 279.9  | 246.2  | 210.7  | 178.2  |
| 85°   | 230.8  | 236.5  | 240.6  | 246.7  | 244.9  | 233.7  | 208.9  | 175.6  | 143.2  | 114.8  | 91.9   |
| 87.5° | 40.0   | 41.1   | 40.8   | 44.2   | 44.3   | 41.1   | 33.8   | 28.9   | 24.3   | 18.2   | 12.8   |
| 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: TMU-F03-LED-E-U-RW

**CANDELA DISTRIBUTION (continued):**

|       | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 86°    | 87°    | 88°    | 89°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 | 1449.6 |
| 2.5°  | 1452.9 | 1452.9 | 1453.8 | 1452.9 | 1452.9 | 1452.9 | 1452.5 | 1453.3 | 1452.9 | 1451.7 | 1450.4 |
| 5°    | 1472.0 | 1470.7 | 1470.3 | 1471.1 | 1471.9 | 1470.2 | 1471.5 | 1472.8 | 1470.7 | 1471.1 | 1470.3 |
| 7.5°  | 1503.7 | 1503.2 | 1502.8 | 1503.7 | 1503.7 | 1503.3 | 1503.7 | 1502.4 | 1501.6 | 1502.8 | 1504.1 |
| 10°   | 1546.2 | 1545.8 | 1546.6 | 1546.6 | 1548.3 | 1547.4 | 1547.0 | 1548.2 | 1547.4 | 1546.6 | 1547.0 |
| 12.5° | 1596.2 | 1594.9 | 1597.0 | 1597.0 | 1598.2 | 1598.2 | 1597.8 | 1598.2 | 1597.8 | 1596.6 | 1595.7 |
| 15°   | 1640.8 | 1639.1 | 1639.5 | 1642.8 | 1642.4 | 1643.2 | 1643.2 | 1642.4 | 1642.0 | 1641.6 | 1642.0 |
| 17.5° | 1667.6 | 1666.8 | 1666.8 | 1668.4 | 1669.6 | 1669.2 | 1669.2 | 1669.2 | 1668.8 | 1669.2 | 1670.0 |
| 20°   | 1672.6 | 1672.5 | 1673.0 | 1674.6 | 1676.6 | 1675.4 | 1675.4 | 1676.2 | 1675.4 | 1676.2 | 1676.6 |
| 22.5° | 1663.0 | 1663.8 | 1664.7 | 1666.8 | 1667.2 | 1667.2 | 1667.2 | 1667.6 | 1668.4 | 1668.4 | 1669.2 |
| 25°   | 1649.8 | 1650.6 | 1651.8 | 1653.5 | 1655.2 | 1655.2 | 1655.2 | 1656.0 | 1656.0 | 1656.4 | 1656.8 |
| 27.5° | 1639.9 | 1640.7 | 1642.0 | 1643.6 | 1645.7 | 1645.7 | 1645.6 | 1646.6 | 1646.5 | 1646.9 | 1647.7 |
| 30°   | 1641.2 | 1639.5 | 1640.7 | 1641.6 | 1642.8 | 1642.8 | 1642.4 | 1642.8 | 1643.2 | 1643.2 | 1643.6 |
| 32.5° | 1658.9 | 1655.2 | 1654.0 | 1653.5 | 1654.0 | 1652.7 | 1652.3 | 1651.4 | 1650.6 | 1650.6 | 1650.2 |
| 35°   | 1706.0 | 1700.2 | 1699.8 | 1696.4 | 1693.2 | 1689.8 | 1690.2 | 1687.8 | 1688.6 | 1686.6 | 1684.9 |
| 37.5° | 1802.6 | 1795.9 | 1800.0 | 1793.0 | 1788.5 | 1785.2 | 1781.5 | 1776.6 | 1773.6 | 1777.4 | 1777.4 |
| 40°   | 1975.4 | 1970.9 | 1969.7 | 1971.0 | 1966.8 | 1968.8 | 1959.8 | 1957.4 | 1952.0 | 1955.6 | 1960.6 |
| 42.5° | 2214.5 | 2211.6 | 2227.2 | 2230.2 | 2231.8 | 2234.3 | 2236.0 | 2222.3 | 2221.9 | 2219.0 | 2210.8 |
| 45°   | 2509.6 | 2526.9 | 2526.1 | 2545.0 | 2545.9 | 2540.2 | 2542.6 | 2536.4 | 2534.0 | 2524.9 | 2536.0 |
| 47.5° | 2813.0 | 2846.0 | 2858.4 | 2862.5 | 2878.2 | 2881.9 | 2867.0 | 2862.0 | 2870.8 | 2855.9 | 2858.0 |
| 50°   | 3138.6 | 3174.2 | 3203.0 | 3222.4 | 3233.6 | 3234.4 | 3223.2 | 3220.8 | 3228.6 | 3200.6 | 3213.8 |
| 52.5° | 3459.0 | 3512.6 | 3567.1 | 3596.0 | 3616.6 | 3618.2 | 3627.0 | 3616.6 | 3620.8 | 3614.2 | 3627.4 |
| 55°   | 3774.7 | 3867.6 | 3931.6 | 3988.1 | 4024.0 | 4055.0 | 4057.9 | 4069.0 | 4069.8 | 4083.5 | 4069.8 |
| 57.5° | 4083.4 | 4184.6 | 4296.0 | 4396.4 | 4452.0 | 4487.2 | 4520.2 | 4565.2 | 4575.1 | 4569.7 | 4578.4 |
| 60°   | 4447.9 | 4604.4 | 4755.8 | 4871.4 | 4967.6 | 5059.6 | 5109.2 | 5179.8 | 5190.9 | 5221.5 | 5195.0 |
| 62.5° | 4908.6 | 5135.5 | 5341.2 | 5496.8 | 5642.8 | 5786.1 | 5894.2 | 5948.8 | 5981.8 | 6045.8 | 6024.7 |
| 65°   | 5615.2 | 5887.6 | 6159.6 | 6382.6 | 6587.2 | 6757.7 | 6922.0 | 7000.4 | 7087.1 | 7178.0 | 7194.4 |
| 67.5° | 6197.2 | 6534.5 | 6841.2 | 7112.7 | 7360.8 | 7550.2 | 7721.2 | 7857.0 | 7962.6 | 8029.5 | 8034.8 |
| 69°   | 6223.6 | 6574.1 | 6907.2 | 7198.6 | 7457.4 | 7658.8 | 7838.8 | 7989.8 | 8092.6 | 8161.2 | 8179.3 |
| 70°   | 6097.4 | 6456.0 | 6811.0 | 7105.3 | 7370.3 | 7576.2 | 7767.0 | 7911.0 | 8025.8 | 8095.6 | 8119.9 |
| 72.5° | 5387.0 | 5770.0 | 6149.4 | 6407.3 | 6678.0 | 6923.3 | 7076.0 | 7222.9 | 7384.8 | 7405.8 | 7472.7 |
| 75°   | 4246.5 | 4568.5 | 4862.8 | 5060.0 | 5286.2 | 5506.2 | 5656.1 | 5694.8 | 5779.5 | 5886.0 | 5848.0 |
| 77.5° | 2460.9 | 2560.0 | 2749.8 | 2798.6 | 2757.2 | 2853.0 | 2884.8 | 2817.1 | 2813.8 | 2876.1 | 2752.3 |
| 80°   | 545.3  | 514.3  | 553.1  | 524.2  | 525.0  | 525.8  | 517.2  | 513.8  | 520.0  | 513.9  | 505.2  |
| 82.5° | 151.0  | 146.1  | 147.0  | 145.3  | 148.2  | 146.1  | 144.9  | 148.2  | 147.8  | 147.4  | 150.2  |
| 85°   | 72.6   | 71.8   | 70.6   | 70.2   | 68.5   | 66.4   | 63.2   | 63.2   | 64.8   | 62.4   | 63.6   |
| 87.5° | 9.5    | 9.1    | 9.1    | 10.7   | 9.5    | 7.8    | 7.8    | 7.8    | 7.5    | 7.5    | 7.4    |
| 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)