

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: P149069

Luminaire Tested: **TMU-E03-LED-E-U-RW-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P149069  
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-E03-LED-E-U-RW-7030  
Description: TALON MEDIUM LED AREA LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE  
Light Source: (63) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8559.7 lumens  
Efficiency: N/A  
Efficacy: 113.8 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

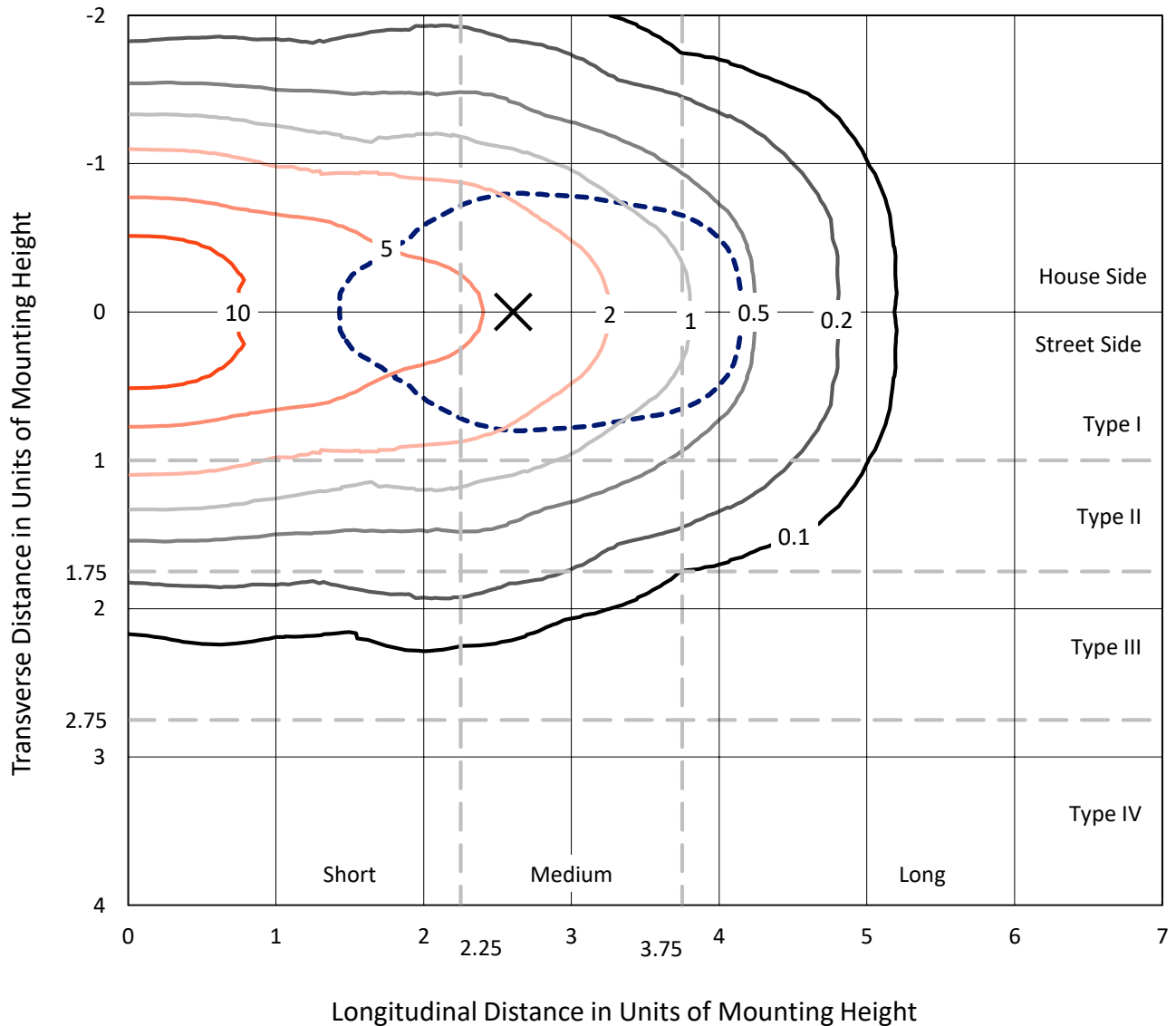
Input Watts (W): 75.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

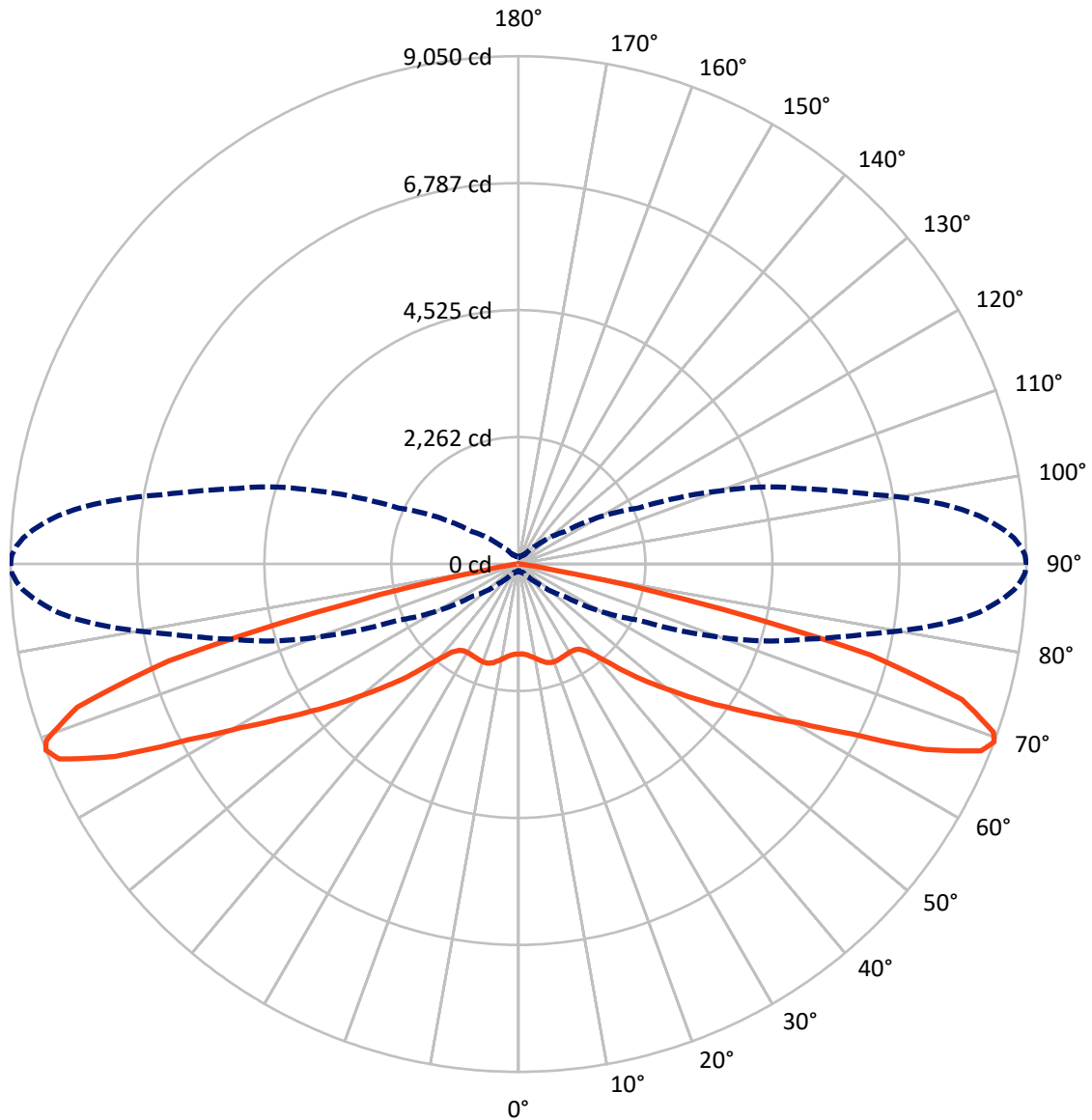
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.4 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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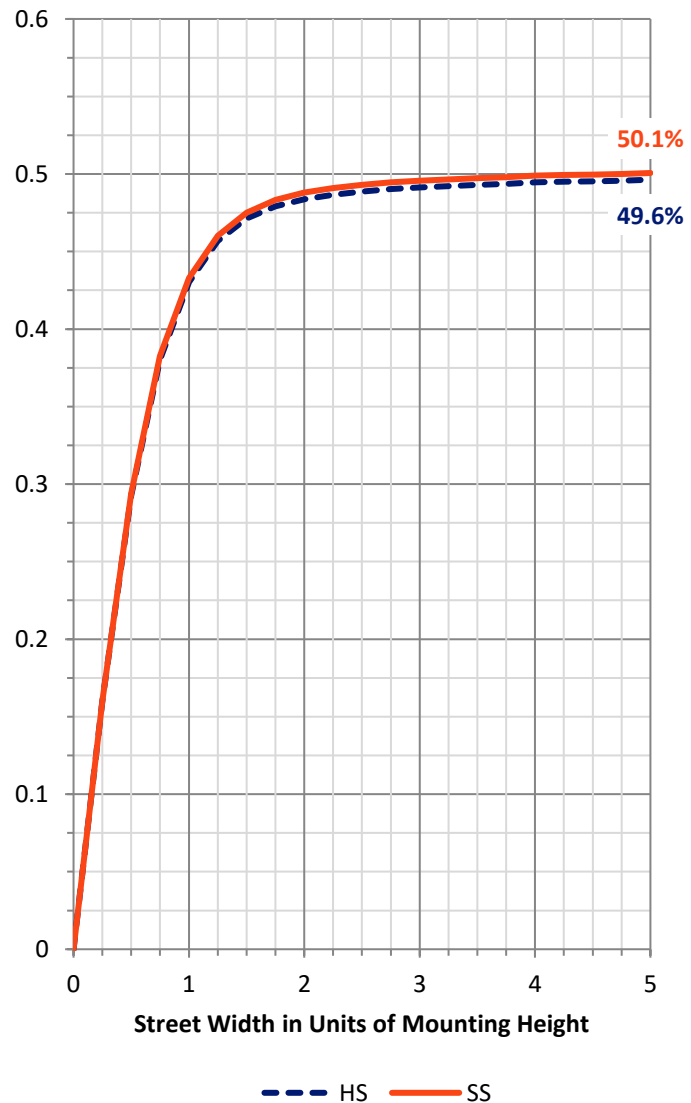
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4279.9   | 0.0    | 4279.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4279.9   | 0.0    | 4279.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8559.7   | 0.0    | 8559.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 157.3  | 1.8       |
| 10°-20°   | 496.3  | 5.8       |
| 20°-30°   | 804.0  | 9.4       |
| 30°-40°   | 1002.0 | 11.7      |
| 40°-50°   | 1252.1 | 14.6      |
| 50°-60°   | 1546.1 | 18.1      |
| 60°-70°   | 1921.1 | 22.4      |
| 70°-80°   | 1275.4 | 14.9      |
| 80°-90°   | 105.3  | 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°    | 8559.7 | 100.0     |
| 0°-180°   | 8559.7 | 100.0     |



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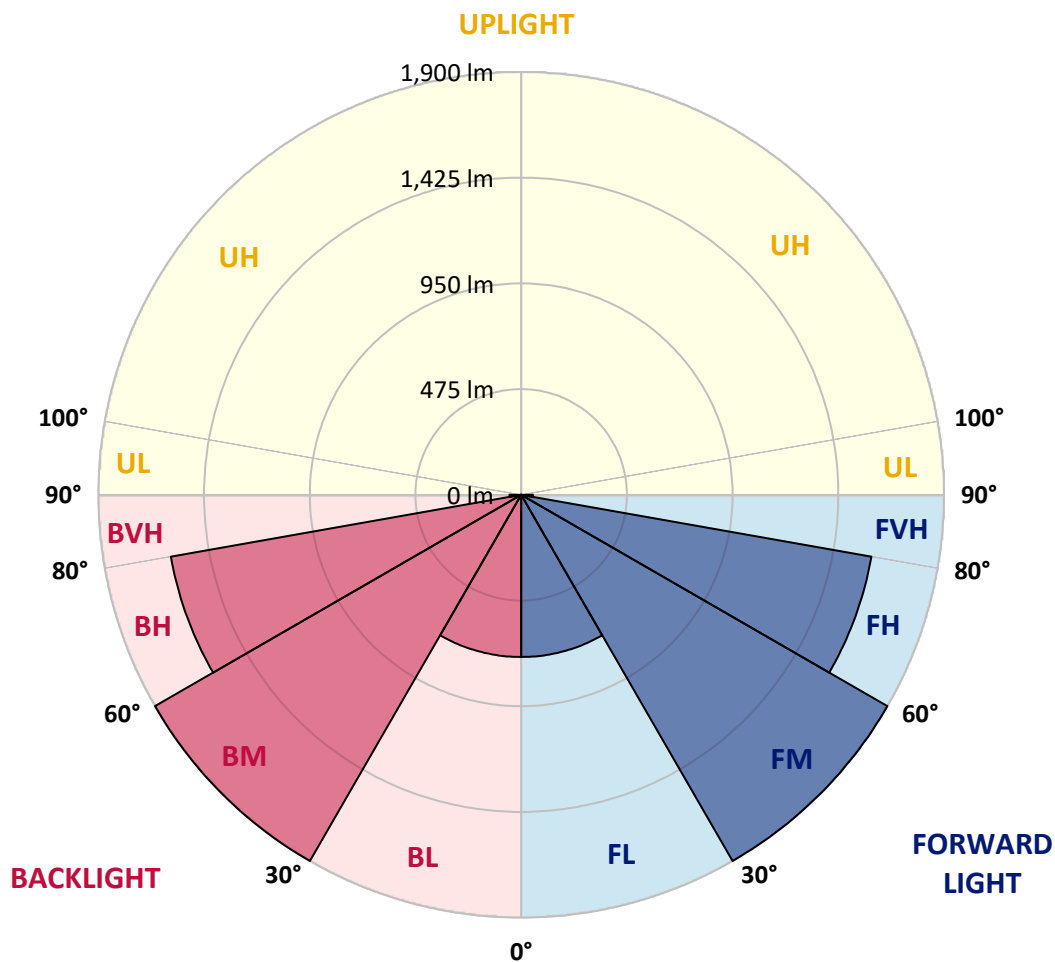
CATALOG NUMBER: TMU-E03-LED-E-U-RW-7030

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 728.8  | 8.5       |                         |      |         |
| FM   | (30°-60°)   | 1900.2 | 22.2      |                         |      |         |
| FH   | (60°-80°)   | 1598.3 | 18.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 52.7   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 728.8  | 8.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1900.2 | 22.2      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1598.3 | 18.7      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 52.7   | 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°    | 1603.8 | 1603.8 | 1603.8 | 1603.8 | 1603.8 | 1603.8 | 1603.8 | 1603.8 | 1603.8 | 1603.8 | 1603.8 |
| 2.5°  | 1611.2 | 1612.6 | 1611.6 | 1613.4 | 1613.0 | 1613.0 | 1612.0 | 1610.2 | 1610.0 | 1609.8 | 1609.6 |
| 5°    | 1626.7 | 1624.9 | 1627.6 | 1630.4 | 1629.4 | 1629.8 | 1629.4 | 1629.4 | 1629.2 | 1629.0 | 1628.8 |
| 7.5°  | 1643.1 | 1642.6 | 1644.4 | 1651.8 | 1652.8 | 1655.4 | 1658.6 | 1660.9 | 1661.0 | 1661.1 | 1661.2 |
| 10°   | 1657.2 | 1657.8 | 1662.3 | 1672.8 | 1678.3 | 1687.0 | 1695.6 | 1702.4 | 1703.0 | 1703.5 | 1704.0 |
| 12.5° | 1668.7 | 1669.2 | 1676.0 | 1692.4 | 1705.7 | 1722.2 | 1740.8 | 1751.4 | 1752.3 | 1753.2 | 1754.1 |
| 15°   | 1669.6 | 1671.0 | 1682.8 | 1709.8 | 1736.2 | 1763.2 | 1785.6 | 1799.8 | 1800.5 | 1801.2 | 1802.0 |
| 17.5° | 1657.8 | 1658.6 | 1678.8 | 1718.5 | 1762.8 | 1804.8 | 1828.1 | 1834.5 | 1834.8 | 1835.0 | 1835.3 |
| 20°   | 1626.7 | 1629.0 | 1657.3 | 1716.2 | 1783.8 | 1838.6 | 1862.8 | 1854.1 | 1853.2 | 1852.4 | 1851.5 |
| 22.5° | 1576.4 | 1576.0 | 1613.0 | 1692.4 | 1787.8 | 1865.0 | 1886.5 | 1863.6 | 1861.0 | 1858.3 | 1855.6 |
| 25°   | 1495.2 | 1500.6 | 1544.0 | 1639.0 | 1764.6 | 1871.0 | 1903.4 | 1868.7 | 1864.8 | 1860.9 | 1857.1 |
| 27.5° | 1407.0 | 1410.2 | 1456.3 | 1558.2 | 1710.2 | 1850.4 | 1911.6 | 1878.8 | 1874.4 | 1870.1 | 1865.7 |
| 30°   | 1304.2 | 1308.4 | 1357.7 | 1464.1 | 1623.1 | 1797.4 | 1909.4 | 1901.6 | 1896.5 | 1891.4 | 1886.4 |
| 32.5° | 1203.8 | 1208.4 | 1252.7 | 1369.2 | 1531.2 | 1724.9 | 1895.6 | 1934.0 | 1928.8 | 1923.6 | 1918.4 |
| 35°   | 1099.6 | 1106.6 | 1160.4 | 1278.2 | 1442.6 | 1644.0 | 1874.6 | 1975.6 | 1972.7 | 1969.8 | 1966.9 |
| 37.5° | 1013.4 | 1014.7 | 1066.8 | 1190.6 | 1360.4 | 1566.9 | 1846.8 | 2028.1 | 2030.2 | 2032.3 | 2034.4 |
| 40°   | 917.0  | 925.7  | 977.8  | 1108.4 | 1285.9 | 1501.6 | 1820.3 | 2099.4 | 2110.3 | 2121.2 | 2132.1 |
| 42.5° | 830.7  | 831.6  | 884.6  | 1019.3 | 1205.2 | 1449.1 | 1805.7 | 2185.2 | 2208.5 | 2231.9 | 2255.2 |
| 45°   | 739.8  | 743.4  | 791.4  | 921.6  | 1112.0 | 1387.0 | 1805.2 | 2284.3 | 2321.6 | 2358.8 | 2396.1 |
| 47.5° | 654.0  | 655.4  | 706.0  | 827.0  | 1005.2 | 1300.2 | 1802.0 | 2390.7 | 2441.4 | 2492.2 | 2542.9 |
| 50°   | 571.8  | 570.4  | 620.2  | 736.6  | 899.6  | 1186.4 | 1774.2 | 2511.2 | 2575.3 | 2639.4 | 2703.5 |
| 52.5° | 477.7  | 484.1  | 535.7  | 647.1  | 803.8  | 1070.9 | 1692.9 | 2643.2 | 2719.8 | 2796.5 | 2873.1 |
| 55°   | 385.4  | 388.2  | 443.4  | 547.6  | 706.4  | 963.2  | 1551.4 | 2764.7 | 2855.0 | 2945.4 | 3035.7 |
| 57.5° | 284.0  | 292.3  | 340.7  | 443.4  | 607.8  | 872.2  | 1371.4 | 2827.7 | 2937.6 | 3047.6 | 3157.5 |
| 60°   | 200.4  | 206.8  | 249.8  | 336.2  | 499.6  | 776.8  | 1216.6 | 2792.6 | 2935.4 | 3078.3 | 3221.1 |
| 62.5° | 156.1  | 161.2  | 195.4  | 251.6  | 389.5  | 681.4  | 1105.6 | 2678.8 | 2873.2 | 3067.6 | 3261.9 |
| 65°   | 137.0  | 141.6  | 172.6  | 201.4  | 290.9  | 584.1  | 1044.9 | 2558.8 | 2815.7 | 3072.6 | 3329.6 |
| 67.5° | 123.8  | 129.2  | 156.2  | 176.2  | 237.0  | 509.6  | 1028.9 | 2483.0 | 2773.9 | 3064.9 | 3355.9 |
| 69°   | 117.8  | 123.3  | 147.5  | 164.4  | 220.1  | 483.2  | 1001.5 | 2363.8 | 2653.1 | 2942.4 | 3231.7 |
| 70°   | 114.2  | 118.7  | 141.1  | 158.5  | 214.6  | 464.9  | 955.8  | 2214.9 | 2499.0 | 2783.1 | 3067.2 |
| 72.5° | 106.0  | 108.2  | 127.8  | 144.8  | 199.1  | 375.8  | 735.2  | 1645.0 | 1891.2 | 2137.5 | 2383.8 |
| 75°   | 93.6   | 96.4   | 114.6  | 131.0  | 155.2  | 233.4  | 465.4  | 1017.5 | 1201.4 | 1385.2 | 1569.1 |
| 77.5° | 80.8   | 83.1   | 99.1   | 125.1  | 120.6  | 145.6  | 278.1  | 566.3  | 672.9  | 779.6  | 886.2  |
| 80°   | 64.8   | 67.6   | 81.8   | 124.2  | 99.6   | 113.2  | 200.0  | 396.0  | 424.7  | 453.5  | 482.3  |
| 82.5° | 47.4   | 49.8   | 64.0   | 100.4  | 76.3   | 85.4   | 152.5  | 335.7  | 345.7  | 355.7  | 365.7  |
| 85°   | 24.2   | 24.6   | 40.7   | 61.2   | 48.4   | 44.3   | 85.9   | 229.8  | 236.1  | 242.5  | 248.9  |
| 87.5° | 4.1    | 4.1    | 9.2    | 10.6   | 11.8   | 7.3    | 11.0   | 39.2   | 40.5   | 41.7   | 43.0   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    | 76°    | 77°    | 78°    | 79°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1603.8 | 1603.8 | 1603.8 | 1603.8 | 1603.8 | 1603.8 | 1603.8 | 1603.8 | 1603.8 | 1603.8 | 1603.8 |
| 2.5°  | 1609.4 | 1609.1 | 1608.3 | 1608.4 | 1609.0 | 1608.7 | 1609.3 | 1609.4 | 1610.0 | 1608.2 | 1607.9 |
| 5°    | 1628.7 | 1628.5 | 1628.4 | 1628.3 | 1628.7 | 1628.6 | 1629.0 | 1629.7 | 1629.5 | 1628.4 | 1628.2 |
| 7.5°  | 1661.3 | 1661.4 | 1661.9 | 1661.4 | 1662.3 | 1661.8 | 1661.0 | 1662.4 | 1663.4 | 1663.5 | 1664.5 |
| 10°   | 1704.5 | 1705.0 | 1706.6 | 1706.3 | 1707.9 | 1707.7 | 1708.0 | 1709.5 | 1710.6 | 1710.8 | 1711.9 |
| 12.5° | 1755.0 | 1756.0 | 1756.8 | 1757.6 | 1759.3 | 1758.3 | 1760.5 | 1761.4 | 1762.8 | 1765.5 | 1764.1 |
| 15°   | 1802.7 | 1803.4 | 1805.9 | 1806.1 | 1807.6 | 1808.3 | 1810.2 | 1811.1 | 1811.4 | 1813.7 | 1814.0 |
| 17.5° | 1835.6 | 1835.8 | 1836.8 | 1836.3 | 1837.6 | 1837.2 | 1838.6 | 1839.3 | 1840.5 | 1841.7 | 1843.8 |
| 20°   | 1850.6 | 1849.8 | 1849.2 | 1848.8 | 1847.8 | 1846.4 | 1846.8 | 1847.4 | 1847.6 | 1848.7 | 1850.2 |
| 22.5° | 1852.9 | 1850.2 | 1847.4 | 1845.6 | 1842.8 | 1840.4 | 1838.2 | 1838.3 | 1838.5 | 1838.2 | 1839.3 |
| 25°   | 1853.2 | 1849.3 | 1845.0 | 1839.7 | 1835.8 | 1830.6 | 1826.2 | 1825.9 | 1824.6 | 1824.7 | 1825.2 |
| 27.5° | 1861.4 | 1857.1 | 1851.0 | 1844.9 | 1836.6 | 1829.6 | 1822.6 | 1820.2 | 1817.7 | 1816.1 | 1815.5 |
| 30°   | 1881.3 | 1876.2 | 1869.0 | 1861.3 | 1852.2 | 1841.3 | 1831.2 | 1828.2 | 1824.6 | 1821.5 | 1818.9 |
| 32.5° | 1913.2 | 1908.0 | 1900.0 | 1891.9 | 1879.8 | 1869.0 | 1859.2 | 1854.1 | 1849.1 | 1843.6 | 1838.6 |
| 35°   | 1964.1 | 1961.2 | 1954.1 | 1947.1 | 1938.1 | 1929.7 | 1920.8 | 1915.1 | 1906.7 | 1902.5 | 1896.3 |
| 37.5° | 2036.5 | 2038.6 | 2038.6 | 2039.5 | 2036.7 | 2032.7 | 2026.2 | 2020.3 | 2017.6 | 2006.2 | 1998.8 |
| 40°   | 2143.0 | 2153.9 | 2163.9 | 2171.6 | 2178.4 | 2185.2 | 2191.1 | 2187.6 | 2188.7 | 2185.7 | 2181.3 |
| 42.5° | 2278.5 | 2301.9 | 2323.2 | 2344.5 | 2359.9 | 2384.0 | 2400.8 | 2406.0 | 2419.6 | 2424.8 | 2434.7 |
| 45°   | 2433.4 | 2470.6 | 2506.4 | 2539.5 | 2570.3 | 2604.7 | 2638.2 | 2663.1 | 2690.4 | 2721.2 | 2752.1 |
| 47.5° | 2593.7 | 2644.4 | 2697.1 | 2740.3 | 2784.8 | 2835.7 | 2880.2 | 2917.8 | 2966.7 | 3012.0 | 3061.9 |
| 50°   | 2767.5 | 2831.6 | 2891.6 | 2944.9 | 3002.2 | 3060.9 | 3121.9 | 3177.0 | 3243.1 | 3315.6 | 3394.1 |
| 52.5° | 2949.7 | 3026.4 | 3095.9 | 3162.6 | 3229.9 | 3297.1 | 3362.0 | 3439.9 | 3521.5 | 3617.2 | 3715.2 |
| 55°   | 3126.0 | 3216.4 | 3295.2 | 3369.4 | 3446.4 | 3521.6 | 3588.6 | 3692.7 | 3792.8 | 3907.1 | 4035.1 |
| 57.5° | 3267.4 | 3377.3 | 3468.3 | 3556.4 | 3643.3 | 3723.2 | 3805.5 | 3923.0 | 4050.6 | 4184.1 | 4346.4 |
| 60°   | 3364.0 | 3506.8 | 3622.9 | 3728.9 | 3835.4 | 3936.0 | 4030.6 | 4184.2 | 4336.0 | 4502.0 | 4704.0 |
| 62.5° | 3456.3 | 3650.6 | 3802.1 | 3946.7 | 4090.3 | 4219.4 | 4337.0 | 4530.3 | 4728.6 | 4933.8 | 5174.1 |
| 65°   | 3586.5 | 3843.4 | 4066.4 | 4268.0 | 4466.8 | 4656.5 | 4832.5 | 5077.4 | 5327.8 | 5597.8 | 5884.6 |
| 67.5° | 3646.9 | 3937.9 | 4228.4 | 4500.1 | 4752.6 | 4992.8 | 5218.9 | 5514.9 | 5809.6 | 6122.5 | 6469.1 |
| 69°   | 3521.0 | 3810.3 | 4120.8 | 4417.6 | 4696.6 | 4951.3 | 5196.0 | 5498.3 | 5804.6 | 6124.2 | 6473.9 |
| 70°   | 3351.3 | 3635.4 | 3948.8 | 4259.0 | 4525.8 | 4791.3 | 5044.9 | 5344.8 | 5655.1 | 5975.5 | 6341.6 |
| 72.5° | 2630.1 | 2876.4 | 3182.0 | 3483.1 | 3750.9 | 4017.2 | 4263.5 | 4570.4 | 4882.8 | 5219.3 | 5565.9 |
| 75°   | 1752.9 | 1936.8 | 2164.5 | 2443.8 | 2689.3 | 2924.7 | 3163.4 | 3423.0 | 3727.7 | 4005.1 | 4322.2 |
| 77.5° | 992.8  | 1099.4 | 1231.7 | 1413.4 | 1589.5 | 1730.5 | 1900.7 | 2022.8 | 2199.7 | 2352.4 | 2513.8 |
| 80°   | 511.0  | 539.8  | 579.3  | 622.8  | 647.7  | 643.7  | 669.0  | 644.0  | 649.6  | 629.1  | 607.3  |
| 82.5° | 375.7  | 385.6  | 403.5  | 412.2  | 411.4  | 382.6  | 352.1  | 309.7  | 272.4  | 233.2  | 197.2  |
| 85°   | 255.3  | 261.7  | 266.2  | 272.9  | 271.0  | 258.6  | 231.1  | 194.3  | 158.4  | 127.1  | 101.6  |
| 87.5° | 44.2   | 45.4   | 45.1   | 48.9   | 49.0   | 45.5   | 37.4   | 32.0   | 27.0   | 20.1   | 14.2   |
| 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):**

|       | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 86°    | 87°    | 88°    | 89°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1603.8 | 1603.8 | 1603.8 | 1603.8 | 1603.8 | 1603.8 | 1603.8 | 1603.8 | 1603.8 | 1603.8 | 1603.8 |
| 2.5°  | 1607.5 | 1607.5 | 1608.4 | 1607.5 | 1607.5 | 1607.5 | 1607.1 | 1608.0 | 1607.5 | 1606.1 | 1604.8 |
| 5°    | 1628.5 | 1627.2 | 1626.7 | 1627.6 | 1628.5 | 1626.6 | 1628.0 | 1629.4 | 1627.1 | 1627.6 | 1626.7 |
| 7.5°  | 1663.7 | 1663.2 | 1662.8 | 1663.7 | 1663.6 | 1663.2 | 1663.6 | 1662.3 | 1661.4 | 1662.8 | 1664.1 |
| 10°   | 1710.7 | 1710.2 | 1711.2 | 1711.2 | 1713.0 | 1712.1 | 1711.6 | 1713.0 | 1712.1 | 1711.2 | 1711.6 |
| 12.5° | 1766.0 | 1764.6 | 1766.8 | 1766.8 | 1768.2 | 1768.2 | 1767.8 | 1768.2 | 1767.8 | 1766.4 | 1765.5 |
| 15°   | 1815.3 | 1813.4 | 1813.9 | 1817.6 | 1817.1 | 1818.0 | 1818.0 | 1817.1 | 1816.6 | 1816.2 | 1816.7 |
| 17.5° | 1845.0 | 1844.0 | 1844.0 | 1845.9 | 1847.2 | 1846.8 | 1846.8 | 1846.8 | 1846.4 | 1846.8 | 1847.7 |
| 20°   | 1850.4 | 1850.4 | 1850.9 | 1852.8 | 1855.0 | 1853.6 | 1853.6 | 1854.6 | 1853.6 | 1854.6 | 1855.0 |
| 22.5° | 1840.0 | 1840.9 | 1841.8 | 1844.0 | 1844.6 | 1844.6 | 1844.5 | 1845.0 | 1845.8 | 1845.8 | 1846.8 |
| 25°   | 1825.4 | 1826.2 | 1827.6 | 1829.4 | 1831.2 | 1831.2 | 1831.2 | 1832.2 | 1832.2 | 1832.6 | 1833.1 |
| 27.5° | 1814.4 | 1815.2 | 1816.7 | 1818.4 | 1820.8 | 1820.8 | 1820.8 | 1821.7 | 1821.7 | 1822.1 | 1823.0 |
| 30°   | 1815.8 | 1813.9 | 1815.3 | 1816.2 | 1817.6 | 1817.6 | 1817.2 | 1817.6 | 1818.0 | 1818.0 | 1818.5 |
| 32.5° | 1835.4 | 1831.2 | 1829.9 | 1829.4 | 1829.9 | 1828.6 | 1828.0 | 1827.2 | 1826.2 | 1826.2 | 1825.8 |
| 35°   | 1887.4 | 1881.0 | 1880.6 | 1877.0 | 1873.2 | 1869.6 | 1870.1 | 1867.4 | 1868.3 | 1866.0 | 1864.1 |
| 37.5° | 1994.3 | 1987.0 | 1991.6 | 1983.8 | 1978.8 | 1975.2 | 1971.0 | 1965.6 | 1962.4 | 1966.4 | 1966.4 |
| 40°   | 2185.6 | 2180.6 | 2179.3 | 2180.6 | 2176.0 | 2178.4 | 2168.3 | 2165.6 | 2159.6 | 2163.8 | 2169.2 |
| 42.5° | 2450.0 | 2446.9 | 2464.2 | 2467.4 | 2469.2 | 2472.0 | 2473.8 | 2458.8 | 2458.3 | 2455.1 | 2446.0 |
| 45°   | 2776.6 | 2795.8 | 2794.9 | 2815.8 | 2816.8 | 2810.4 | 2813.1 | 2806.2 | 2803.6 | 2793.5 | 2805.8 |
| 47.5° | 3112.2 | 3148.8 | 3162.5 | 3167.0 | 3184.4 | 3188.5 | 3172.0 | 3166.6 | 3176.1 | 3159.8 | 3162.0 |
| 50°   | 3472.6 | 3511.8 | 3543.8 | 3565.3 | 3577.6 | 3578.5 | 3566.2 | 3563.4 | 3572.1 | 3541.0 | 3555.7 |
| 52.5° | 3826.9 | 3886.3 | 3946.6 | 3978.6 | 4001.4 | 4003.2 | 4012.8 | 4001.4 | 4006.0 | 3998.6 | 4013.3 |
| 55°   | 4176.2 | 4279.0 | 4349.8 | 4412.4 | 4452.1 | 4486.4 | 4489.6 | 4501.9 | 4502.8 | 4517.9 | 4502.8 |
| 57.5° | 4517.8 | 4629.8 | 4753.1 | 4864.0 | 4925.7 | 4964.5 | 5001.0 | 5050.8 | 5061.8 | 5055.8 | 5065.4 |
| 60°   | 4921.2 | 5094.2 | 5261.8 | 5389.7 | 5496.1 | 5597.9 | 5652.8 | 5730.8 | 5743.1 | 5776.9 | 5747.7 |
| 62.5° | 5430.8 | 5682.0 | 5909.4 | 6081.6 | 6243.2 | 6401.7 | 6521.3 | 6581.6 | 6618.1 | 6688.9 | 6665.6 |
| 65°   | 6212.6 | 6514.0 | 6815.0 | 7061.6 | 7288.0 | 7476.7 | 7658.4 | 7745.2 | 7841.1 | 7941.6 | 7959.8 |
| 67.5° | 6856.5 | 7229.6 | 7569.0 | 7869.4 | 8143.9 | 8353.5 | 8542.6 | 8692.8 | 8809.8 | 8883.7 | 8889.6 |
| 69°   | 6885.8 | 7273.4 | 7642.0 | 7964.4 | 8250.8 | 8473.6 | 8672.7 | 8839.8 | 8953.6 | 9029.4 | 9049.5 |
| 70°   | 6746.0 | 7142.9 | 7535.6 | 7861.2 | 8154.4 | 8382.2 | 8593.2 | 8752.6 | 8879.6 | 8956.8 | 8983.7 |
| 72.5° | 5960.0 | 6383.9 | 6803.6 | 7089.0 | 7388.6 | 7659.8 | 7828.8 | 7991.4 | 8170.4 | 8193.7 | 8267.6 |
| 75°   | 4698.2 | 5054.5 | 5380.1 | 5598.4 | 5848.6 | 6092.0 | 6257.8 | 6300.8 | 6394.4 | 6512.2 | 6470.2 |
| 77.5° | 2722.7 | 2832.3 | 3042.4 | 3096.3 | 3050.6 | 3156.5 | 3191.7 | 3116.8 | 3113.1 | 3182.1 | 3045.1 |
| 80°   | 603.3  | 569.0  | 611.9  | 580.0  | 580.8  | 581.8  | 572.2  | 568.6  | 575.4  | 568.6  | 559.0  |
| 82.5° | 167.1  | 161.6  | 162.6  | 160.8  | 164.0  | 161.7  | 160.3  | 164.0  | 163.5  | 163.0  | 166.2  |
| 85°   | 80.4   | 79.4   | 78.1   | 77.6   | 75.8   | 73.5   | 69.9   | 69.8   | 71.7   | 68.9   | 70.3   |
| 87.5° | 10.5   | 10.0   | 10.0   | 11.9   | 10.5   | 8.6    | 8.6    | 8.6    | 8.2    | 8.2    | 8.2    |
| 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)