

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: McGRAW-EDISON

Report Number: P197675

Luminaire Tested: **TT-C6-LED-E1-MQ-CG-LWR-LW-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197675  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115378)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TT-C6-LED-E1-MQ-CG-LWR-LW-7050  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE  
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR  
Light Source: (160) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9639.4 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 108  
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: 25 FT



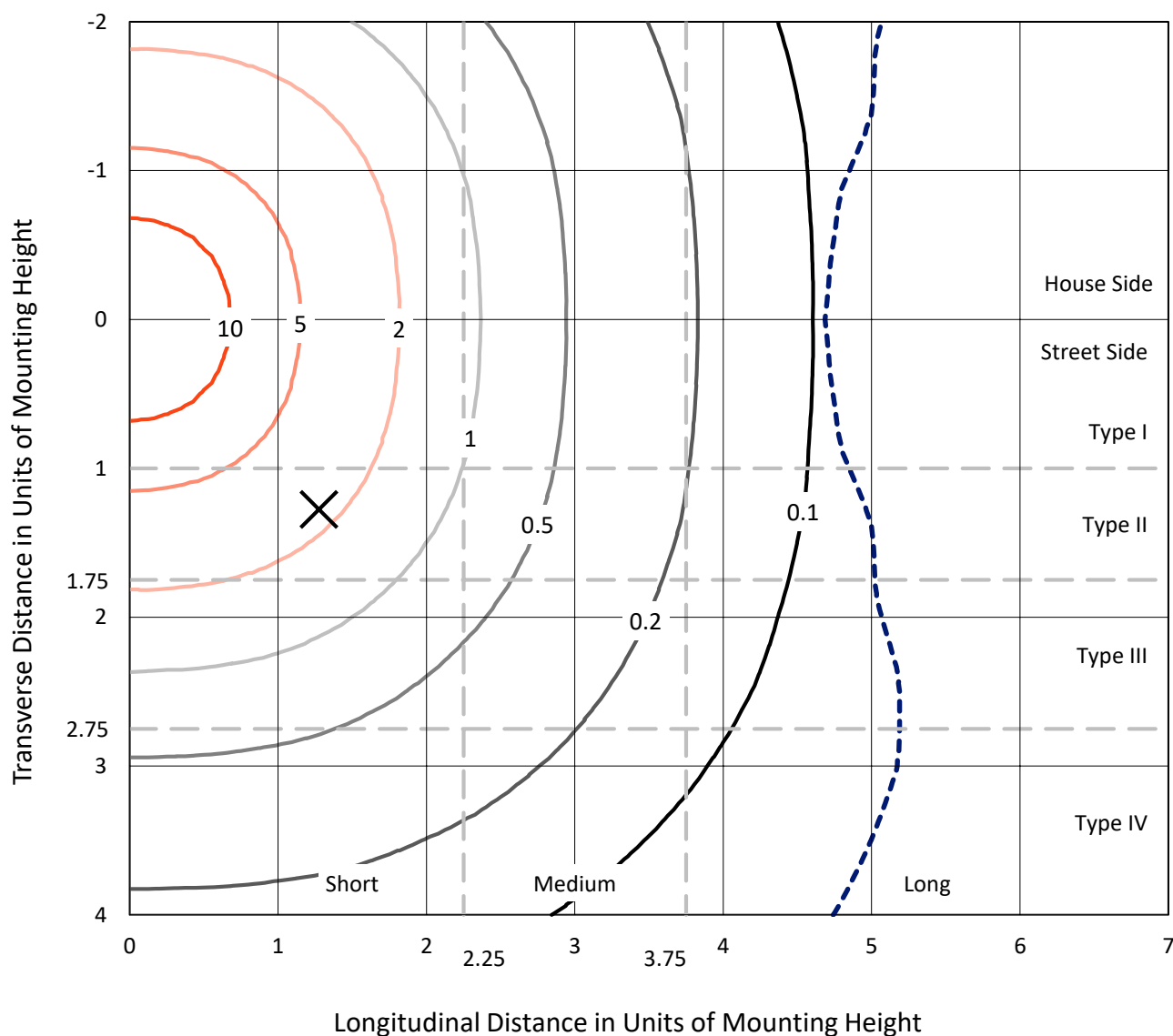
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

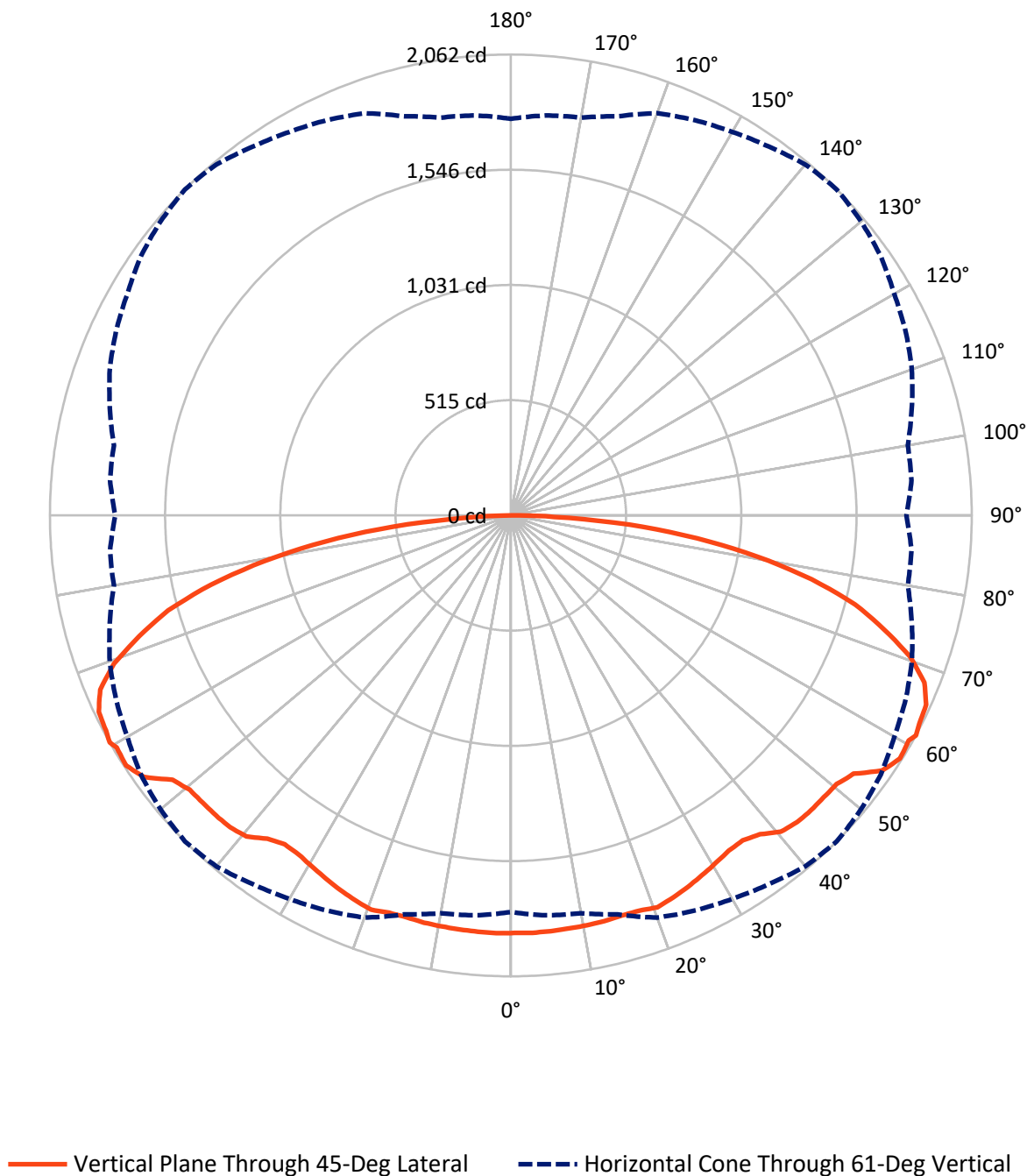


Based on 10 foot mounting height. Maximum calculated value = 18.7 fc  
 Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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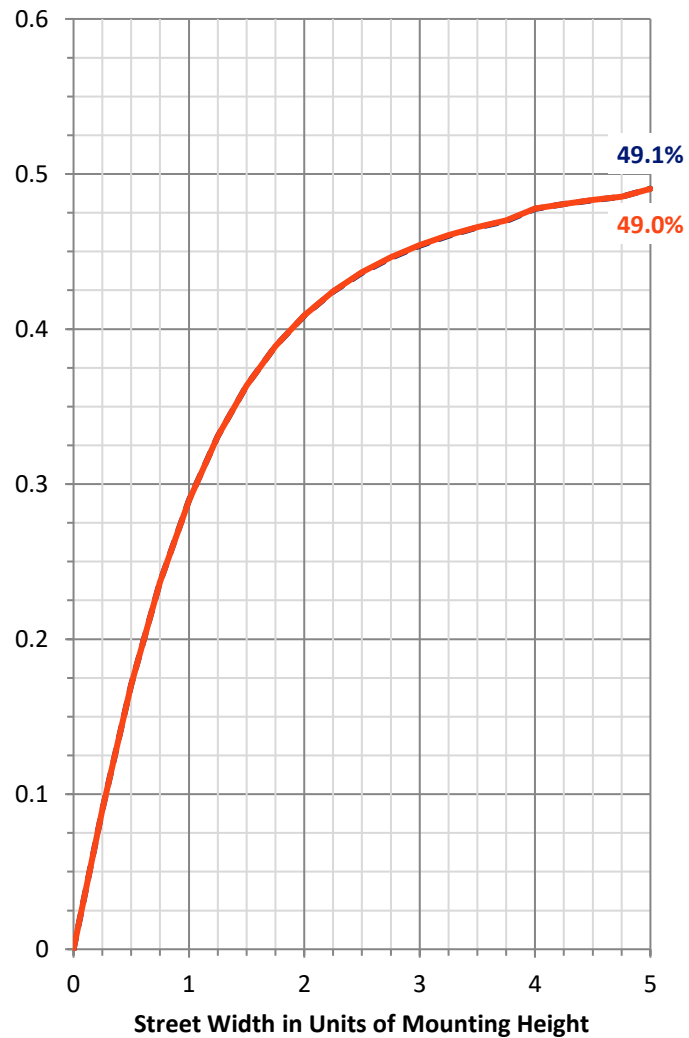
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4819.7   | 0.0    | 4819.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4819.7   | 0.0    | 4819.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9639.4   | 0.0    | 9639.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 178.2  | 1.8       |
| 10°-20°   | 526.7  | 5.5       |
| 20°-30°   | 847.5  | 8.8       |
| 30°-40°   | 1122.7 | 11.6      |
| 40°-50°   | 1417.8 | 14.7      |
| 50°-60°   | 1698.8 | 17.6      |
| 60°-70°   | 1857.5 | 19.3      |
| 70°-80°   | 1487.0 | 15.4      |
| 80°-90°   | 503.1  | 5.2       |
| 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°    | 9639.4 | 100.0     |
| 0°-180°   | 9639.4 | 100.0     |

**Coefficient of Utilization**



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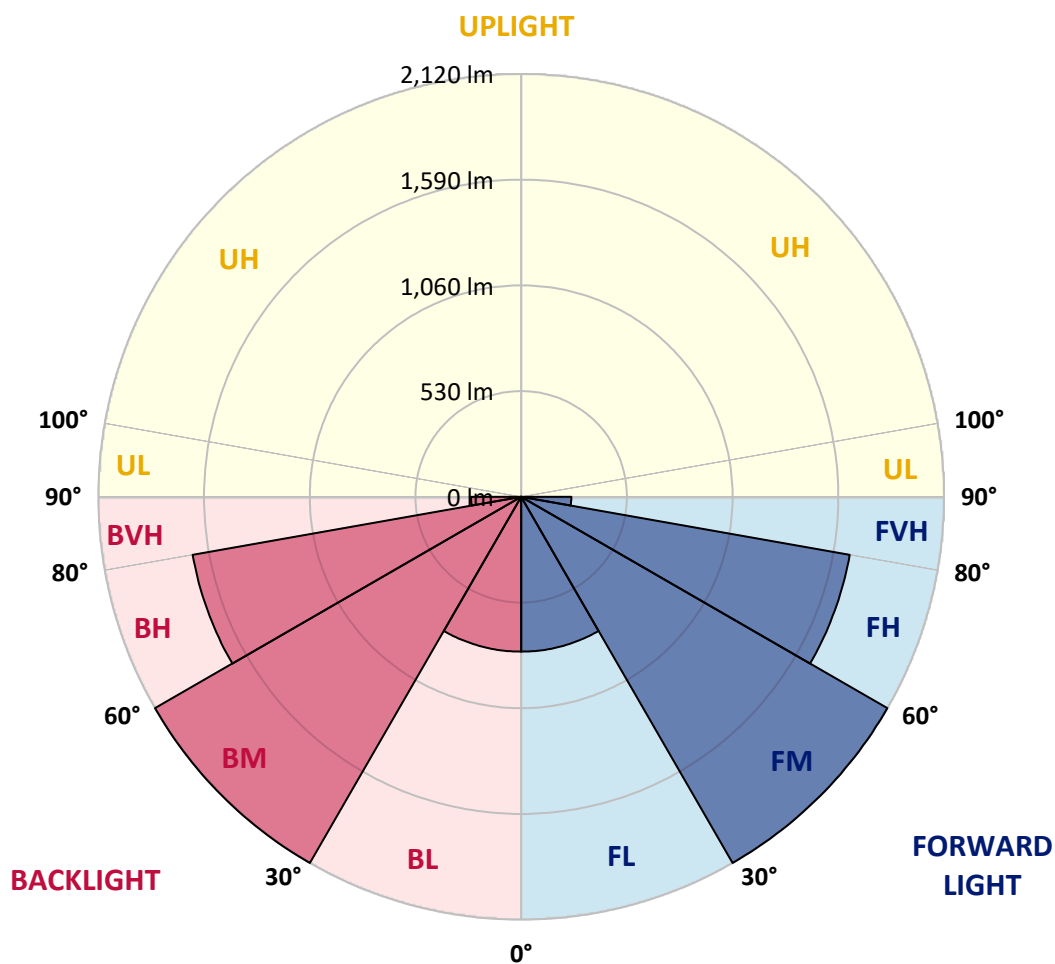
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 776.2  | 8.1       |                         |      |         |
| FM   | (30°-60°)   | 2119.7 | 22.0      |                         |      |         |
| FH   | (60°-80°)   | 1672.3 | 17.3      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 251.5  | 2.6       |                         |      | G3/500  |
| BL   | (0°-30°)    | 776.2  | 8.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2119.7 | 22.0      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1672.3 | 17.3      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 251.5  | 2.6       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1867.7 | 1867.7 | 1867.7 | 1867.7 | 1867.7 | 1867.7 | 1867.7 | 1867.7 | 1867.7 | 1867.7 | 1867.7 |
| 2.5°  | 1869.3 | 1867.7 | 1869.3 | 1869.3 | 1869.3 | 1869.3 | 1869.3 | 1869.3 | 1869.3 | 1869.3 | 1869.3 |
| 5°    | 1867.7 | 1867.7 | 1867.7 | 1867.7 | 1867.7 | 1867.7 | 1867.7 | 1867.7 | 1867.7 | 1867.7 | 1867.7 |
| 7.5°  | 1865.9 | 1865.9 | 1865.9 | 1865.9 | 1865.9 | 1865.9 | 1865.9 | 1865.9 | 1867.7 | 1865.9 | 1867.7 |
| 10°   | 1862.2 | 1862.2 | 1862.2 | 1862.2 | 1864.0 | 1864.0 | 1864.0 | 1864.0 | 1864.0 | 1864.0 | 1864.0 |
| 12.5° | 1858.6 | 1858.6 | 1858.6 | 1858.6 | 1860.4 | 1860.4 | 1860.4 | 1860.4 | 1862.2 | 1862.2 | 1860.4 |
| 15°   | 1855.0 | 1853.2 | 1853.2 | 1855.0 | 1855.0 | 1856.8 | 1856.8 | 1856.8 | 1858.6 | 1856.8 | 1856.8 |
| 17.5° | 1851.4 | 1849.6 | 1851.4 | 1853.2 | 1853.2 | 1855.0 | 1856.8 | 1856.8 | 1858.6 | 1858.6 | 1858.6 |
| 20°   | 1856.8 | 1855.0 | 1856.8 | 1858.6 | 1860.4 | 1864.0 | 1865.9 | 1867.7 | 1869.3 | 1871.1 | 1871.1 |
| 22.5° | 1845.9 | 1844.1 | 1845.9 | 1845.9 | 1847.7 | 1849.6 | 1853.2 | 1855.0 | 1856.8 | 1856.8 | 1856.8 |
| 25°   | 1829.8 | 1829.8 | 1831.7 | 1831.7 | 1833.5 | 1835.3 | 1837.1 | 1838.9 | 1838.9 | 1840.7 | 1838.9 |
| 27.5° | 1811.9 | 1811.9 | 1813.8 | 1813.8 | 1817.4 | 1817.4 | 1819.2 | 1820.8 | 1822.6 | 1822.6 | 1822.6 |
| 30°   | 1790.4 | 1790.4 | 1792.2 | 1794.0 | 1797.4 | 1799.3 | 1801.1 | 1802.9 | 1804.7 | 1804.7 | 1804.7 |
| 32.5° | 1770.7 | 1768.9 | 1770.7 | 1774.1 | 1779.5 | 1783.2 | 1786.8 | 1788.6 | 1788.6 | 1788.6 | 1790.4 |
| 35°   | 1754.4 | 1756.2 | 1759.8 | 1763.5 | 1770.7 | 1774.1 | 1777.7 | 1783.2 | 1785.0 | 1785.0 | 1785.0 |
| 37.5° | 1758.0 | 1759.8 | 1765.3 | 1772.3 | 1781.4 | 1792.2 | 1799.3 | 1806.5 | 1811.9 | 1810.1 | 1808.3 |
| 40°   | 1781.4 | 1785.0 | 1794.0 | 1804.7 | 1819.2 | 1833.5 | 1844.1 | 1853.2 | 1858.6 | 1860.4 | 1858.6 |
| 42.5° | 1785.0 | 1788.6 | 1795.6 | 1811.9 | 1828.0 | 1844.1 | 1858.6 | 1867.7 | 1874.7 | 1876.5 | 1874.7 |
| 45°   | 1783.2 | 1783.2 | 1794.0 | 1811.9 | 1828.0 | 1844.1 | 1862.2 | 1874.7 | 1881.9 | 1881.9 | 1881.9 |
| 47.5° | 1770.7 | 1775.9 | 1783.2 | 1801.1 | 1822.6 | 1838.9 | 1856.8 | 1869.3 | 1878.3 | 1883.8 | 1878.3 |
| 50°   | 1770.7 | 1770.7 | 1783.2 | 1795.6 | 1815.6 | 1844.1 | 1869.3 | 1881.9 | 1891.0 | 1889.2 | 1891.0 |
| 52.5° | 1767.1 | 1777.7 | 1785.0 | 1802.9 | 1838.9 | 1867.7 | 1887.4 | 1905.3 | 1917.7 | 1919.6 | 1916.2 |
| 55°   | 1799.3 | 1801.1 | 1817.4 | 1851.4 | 1885.6 | 1917.7 | 1953.8 | 1980.7 | 2002.2 | 2014.9 | 1996.8 |
| 57.5° | 1824.4 | 1815.6 | 1847.7 | 1876.5 | 1916.2 | 1964.6 | 2018.3 | 2039.9 | 2056.2 | 2052.5 | 2058.0 |
| 60°   | 1790.4 | 1802.9 | 1826.2 | 1856.8 | 1919.6 | 1968.0 | 1996.8 | 2020.1 | 2039.9 | 2045.3 | 2038.3 |
| 61°   | 1774.1 | 1795.6 | 1806.5 | 1847.7 | 1914.3 | 1950.1 | 1980.7 | 2013.1 | 2048.9 | 2061.6 | 2045.3 |
| 62.5° | 1747.2 | 1781.4 | 1777.7 | 1844.1 | 1885.6 | 1926.8 | 1984.3 | 2022.0 | 2047.1 | 2050.7 | 2047.1 |
| 65°   | 1749.0 | 1743.8 | 1785.0 | 1833.5 | 1874.7 | 1948.3 | 1996.8 | 2020.1 | 2034.6 | 2041.7 | 2038.3 |
| 67.5° | 1691.6 | 1673.5 | 1723.8 | 1758.0 | 1828.0 | 1885.6 | 1932.2 | 1966.2 | 1988.0 | 1995.0 | 1986.2 |
| 70°   | 1558.7 | 1571.3 | 1607.1 | 1659.2 | 1716.8 | 1786.8 | 1829.8 | 1874.7 | 1892.8 | 1894.4 | 1894.4 |
| 72.5° | 1431.1 | 1438.4 | 1474.4 | 1522.9 | 1589.2 | 1650.2 | 1693.5 | 1729.3 | 1745.6 | 1747.2 | 1750.8 |
| 75°   | 1262.3 | 1269.6 | 1310.8 | 1355.7 | 1422.3 | 1474.4 | 1504.7 | 1548.0 | 1571.3 | 1591.1 | 1575.0 |
| 77.5° | 1066.6 | 1079.3 | 1111.5 | 1160.2 | 1221.1 | 1249.9 | 1303.8 | 1354.1 | 1370.2 | 1375.6 | 1370.2 |
| 80°   | 845.7  | 862.0  | 890.8  | 955.4  | 982.3  | 1029.0 | 1081.1 | 1102.6 | 1116.9 | 1120.5 | 1122.3 |
| 82.5° | 608.7  | 621.4  | 651.8  | 696.6  | 727.2  | 765.1  | 800.9  | 827.8  | 843.9  | 840.5  | 838.7  |
| 85°   | 359.1  | 362.7  | 395.1  | 425.7  | 449.0  | 472.4  | 500.9  | 520.8  | 524.5  | 531.5  | 529.7  |
| 87.5° | 107.8  | 109.6  | 123.9  | 140.0  | 150.9  | 161.5  | 179.7  | 203.0  | 208.2  | 193.9  | 195.7  |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1867.7 | 1867.7 | 1867.7 | 1867.7 | 1867.7 | 1867.7 | 1867.7 | 1867.7 |
| 2.5°  | 1869.3 | 1869.3 | 1869.3 | 1869.3 | 1869.3 | 1869.3 | 1867.7 | 1869.3 |
| 5°    | 1867.7 | 1867.7 | 1867.7 | 1867.7 | 1867.7 | 1867.7 | 1867.7 | 1867.7 |
| 7.5°  | 1867.7 | 1865.9 | 1865.9 | 1865.9 | 1865.9 | 1865.9 | 1865.9 | 1865.9 |
| 10°   | 1864.0 | 1864.0 | 1864.0 | 1864.0 | 1862.2 | 1862.2 | 1862.2 | 1862.2 |
| 12.5° | 1860.4 | 1860.4 | 1860.4 | 1860.4 | 1858.6 | 1858.6 | 1858.6 | 1858.6 |
| 15°   | 1856.8 | 1856.8 | 1856.8 | 1856.8 | 1855.0 | 1855.0 | 1855.0 | 1855.0 |
| 17.5° | 1858.6 | 1856.8 | 1855.0 | 1855.0 | 1853.2 | 1851.4 | 1851.4 | 1851.4 |
| 20°   | 1869.3 | 1867.7 | 1864.0 | 1860.4 | 1858.6 | 1856.8 | 1856.8 | 1856.8 |
| 22.5° | 1855.0 | 1853.2 | 1849.6 | 1847.7 | 1847.7 | 1845.9 | 1844.1 | 1844.1 |
| 25°   | 1838.9 | 1835.3 | 1835.3 | 1833.5 | 1833.5 | 1829.8 | 1829.8 | 1828.0 |
| 27.5° | 1820.8 | 1819.2 | 1817.4 | 1815.6 | 1815.6 | 1813.8 | 1811.9 | 1810.1 |
| 30°   | 1804.7 | 1801.1 | 1797.4 | 1795.6 | 1794.0 | 1792.2 | 1792.2 | 1792.2 |
| 32.5° | 1788.6 | 1785.0 | 1783.2 | 1777.7 | 1774.1 | 1772.3 | 1770.7 | 1770.7 |
| 35°   | 1783.2 | 1777.7 | 1774.1 | 1768.9 | 1763.5 | 1759.8 | 1758.0 | 1754.4 |
| 37.5° | 1804.7 | 1797.4 | 1792.2 | 1783.2 | 1770.7 | 1765.3 | 1759.8 | 1758.0 |
| 40°   | 1851.4 | 1844.1 | 1833.5 | 1819.2 | 1804.7 | 1794.0 | 1785.0 | 1781.4 |
| 42.5° | 1867.7 | 1858.6 | 1844.1 | 1829.8 | 1811.9 | 1795.6 | 1788.6 | 1785.0 |
| 45°   | 1872.9 | 1864.0 | 1844.1 | 1826.2 | 1810.1 | 1795.6 | 1785.0 | 1781.4 |
| 47.5° | 1867.7 | 1855.0 | 1837.1 | 1822.6 | 1799.3 | 1781.4 | 1774.1 | 1768.9 |
| 50°   | 1880.1 | 1869.3 | 1845.9 | 1813.8 | 1794.0 | 1783.2 | 1770.7 | 1768.9 |
| 52.5° | 1905.3 | 1885.6 | 1864.0 | 1840.7 | 1802.9 | 1781.4 | 1774.1 | 1765.3 |
| 55°   | 1980.7 | 1953.8 | 1916.2 | 1878.3 | 1855.0 | 1820.8 | 1799.3 | 1799.3 |
| 57.5° | 2038.3 | 2016.5 | 1968.0 | 1917.7 | 1874.7 | 1849.6 | 1817.4 | 1819.2 |
| 60°   | 2022.0 | 1993.2 | 1969.8 | 1919.6 | 1858.6 | 1824.4 | 1811.9 | 1788.6 |
| 61°   | 2020.1 | 1980.7 | 1948.3 | 1908.9 | 1856.8 | 1802.9 | 1799.3 | 1768.9 |
| 62.5° | 2023.8 | 1988.0 | 1926.8 | 1885.6 | 1845.9 | 1775.9 | 1774.1 | 1745.6 |
| 65°   | 2020.1 | 1986.2 | 1955.6 | 1878.3 | 1824.4 | 1795.6 | 1734.7 | 1758.0 |
| 67.5° | 1964.6 | 1934.1 | 1878.3 | 1835.3 | 1752.6 | 1716.8 | 1682.6 | 1682.6 |
| 70°   | 1876.5 | 1831.7 | 1777.7 | 1723.8 | 1668.3 | 1607.1 | 1576.6 | 1558.7 |
| 72.5° | 1729.3 | 1691.6 | 1648.6 | 1591.1 | 1522.9 | 1467.1 | 1438.4 | 1425.9 |
| 75°   | 1544.4 | 1502.9 | 1465.3 | 1422.3 | 1350.5 | 1303.8 | 1273.2 | 1264.1 |
| 77.5° | 1350.5 | 1314.4 | 1248.1 | 1206.8 | 1158.3 | 1104.4 | 1077.5 | 1066.6 |
| 80°   | 1102.6 | 1082.9 | 1036.2 | 969.6  | 946.3  | 879.9  | 862.0  | 845.7  |
| 82.5° | 827.8  | 806.3  | 763.2  | 716.6  | 687.8  | 650.0  | 617.8  | 614.2  |
| 85°   | 520.8  | 506.3  | 479.4  | 445.4  | 409.4  | 387.9  | 359.1  | 366.3  |
| 87.5° | 193.9  | 184.9  | 168.8  | 147.3  | 131.2  | 116.7  | 102.4  | 107.8  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)