

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: P821206

Luminaire Tested: **TT-D5-735-24VDC-5MQ-PM**

Issue Date: 5/19/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P821206  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TT-D5-735-24VDC-5MQ-PM  
Description: TOPTIER LED SITE LUMINAIRE  
3500K, 70 CRI LEDS AND MEDIUM DISTRIBUTION  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

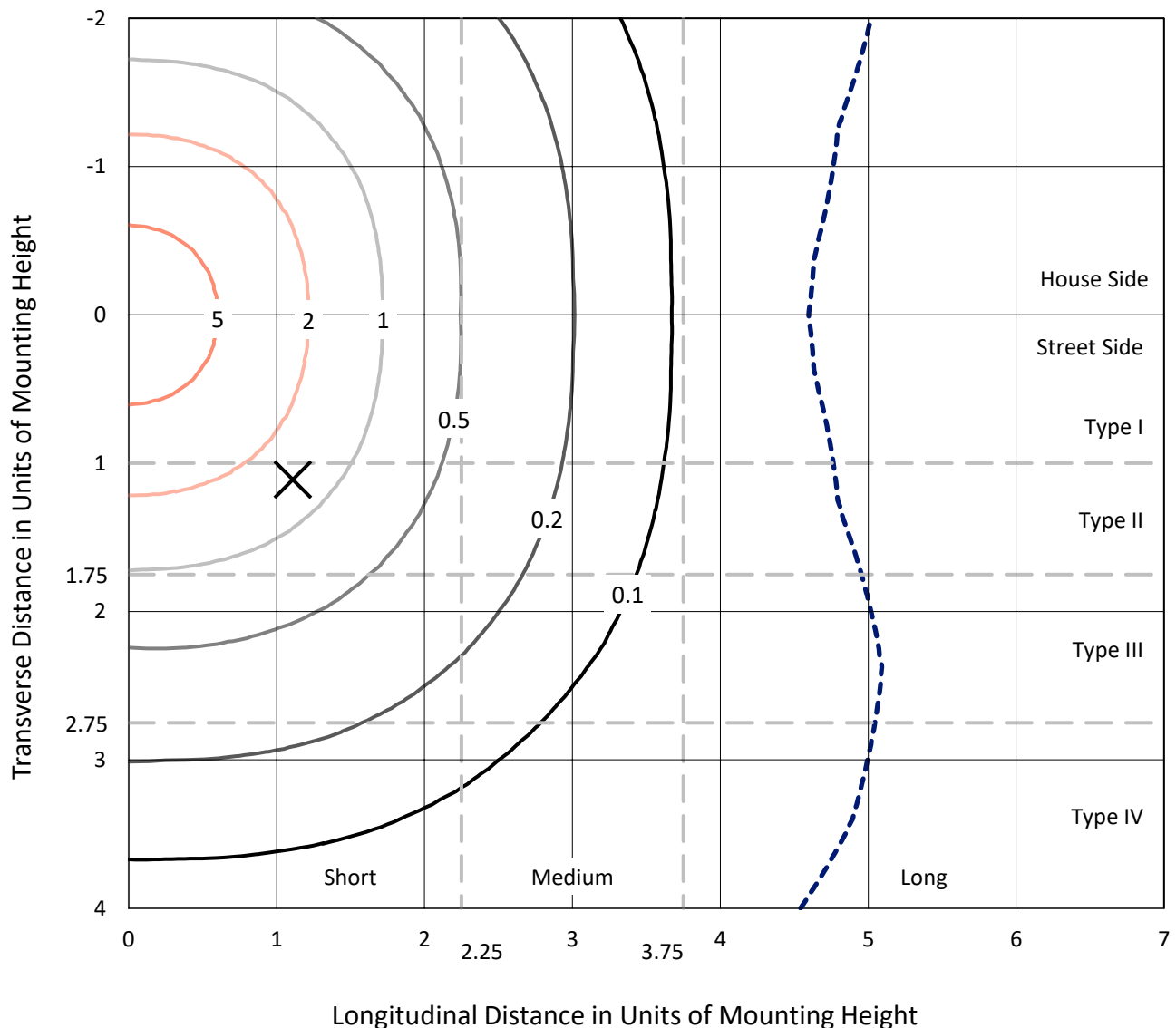
Lumens per Lamp: N/A  
Luminaire Lumens: 9520 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 73  
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

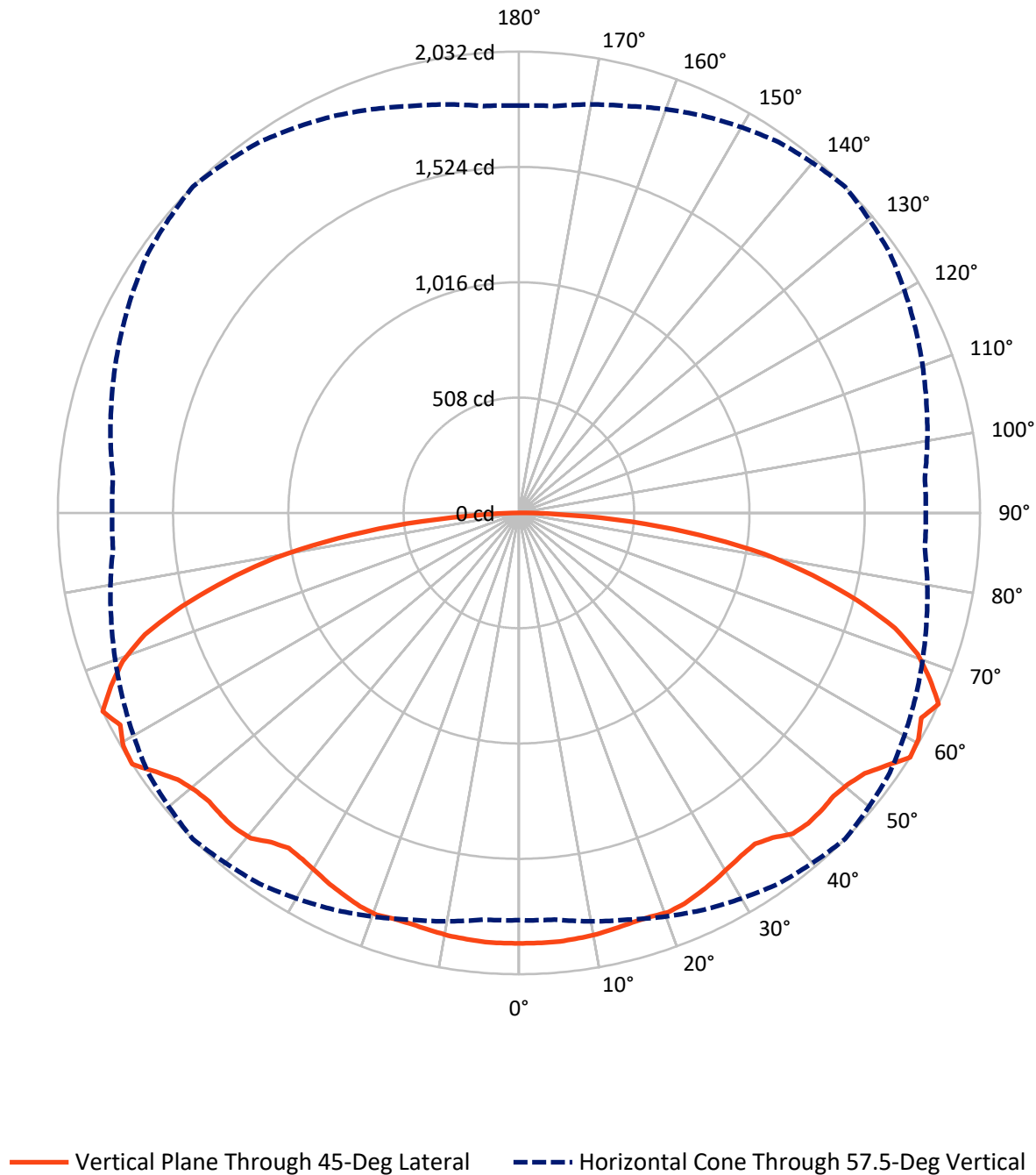
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.4 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4760.0   | 0.0    | 4760.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4760.0   | 0.0    | 4760.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9520.0   | 0.0    | 9520.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 180.7  | 1.9       |
| 10°-20°   | 531.4  | 5.6       |
| 20°-30°   | 853.9  | 9.0       |
| 30°-40°   | 1127.3 | 11.8      |
| 40°-50°   | 1410.4 | 14.8      |
| 50°-60°   | 1677.6 | 17.6      |
| 60°-70°   | 1819.5 | 19.1      |
| 70°-80°   | 1448.3 | 15.2      |
| 80°-90°   | 470.8  | 4.9       |
| 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°    | 9520.0 | 100.0     |
| 0°-180°   | 9520.0 | 100.0     |



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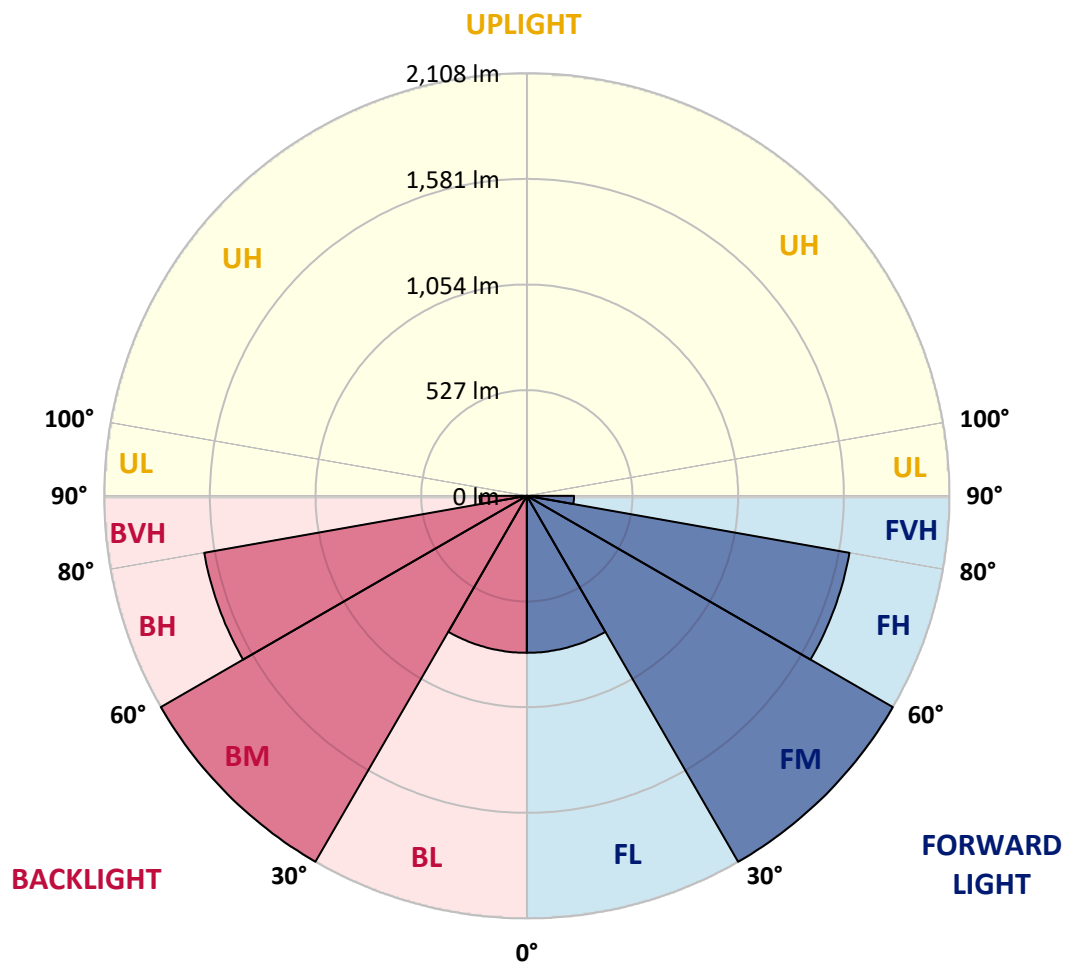
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 783.0  | 8.2       |                         |      |         |
| FM   | (30°-60°)   | 2107.7 | 22.1      |                         |      |         |
| FH   | (60°-80°)   | 1633.9 | 17.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 235.4  | 2.5       |                         |      | G3/500  |
| BL   | (0°-30°)    | 783.0  | 8.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2107.7 | 22.1      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1633.9 | 17.2      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 235.4  | 2.5       |                         |      | 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°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1896.1 | 1896.1 | 1896.1 | 1896.1 | 1896.1 | 1896.1 | 1896.1 | 1896.1 | 1896.1 | 1896.1 | 1896.1 |
| 2.5°  | 1898.9 | 1897.5 | 1898.9 | 1897.5 | 1897.5 | 1896.1 | 1897.5 | 1897.5 | 1897.5 | 1897.5 | 1897.5 |
| 5°    | 1897.5 | 1896.1 | 1896.1 | 1897.5 | 1896.1 | 1896.1 | 1896.1 | 1896.1 | 1896.1 | 1896.1 | 1896.1 |
| 7.5°  | 1891.8 | 1891.8 | 1893.3 | 1891.8 | 1891.8 | 1891.8 | 1891.8 | 1891.8 | 1891.8 | 1893.3 | 1893.3 |
| 10°   | 1887.6 | 1886.2 | 1887.6 | 1887.6 | 1886.2 | 1887.6 | 1886.2 | 1887.6 | 1887.6 | 1887.6 | 1887.6 |
| 12.5° | 1881.9 | 1880.5 | 1881.9 | 1881.9 | 1880.5 | 1879.1 | 1880.5 | 1880.5 | 1881.9 | 1881.9 | 1881.9 |
| 15°   | 1872.0 | 1872.0 | 1874.8 | 1873.4 | 1873.4 | 1872.0 | 1874.8 | 1873.4 | 1872.0 | 1873.4 | 1873.4 |
| 17.5° | 1864.9 | 1864.9 | 1867.8 | 1870.6 | 1870.6 | 1870.6 | 1870.6 | 1869.2 | 1866.4 | 1867.8 | 1864.9 |
| 20°   | 1866.4 | 1867.8 | 1869.2 | 1873.4 | 1876.3 | 1877.7 | 1877.7 | 1873.4 | 1869.2 | 1870.6 | 1869.2 |
| 22.5° | 1862.1 | 1860.7 | 1862.1 | 1864.9 | 1869.2 | 1869.2 | 1869.2 | 1863.5 | 1862.1 | 1860.7 | 1860.7 |
| 25°   | 1845.1 | 1845.1 | 1847.9 | 1850.8 | 1853.6 | 1852.2 | 1853.6 | 1850.8 | 1847.9 | 1845.1 | 1845.1 |
| 27.5° | 1825.3 | 1825.3 | 1829.5 | 1832.4 | 1835.2 | 1835.2 | 1833.8 | 1831.0 | 1829.5 | 1826.7 | 1825.3 |
| 30°   | 1805.5 | 1805.5 | 1809.7 | 1812.5 | 1816.8 | 1815.4 | 1815.4 | 1811.1 | 1806.9 | 1804.0 | 1804.0 |
| 32.5° | 1784.2 | 1782.8 | 1787.1 | 1794.1 | 1799.8 | 1799.8 | 1799.8 | 1791.3 | 1785.6 | 1782.8 | 1781.4 |
| 35°   | 1765.8 | 1765.8 | 1771.5 | 1784.2 | 1791.3 | 1791.3 | 1788.5 | 1782.8 | 1770.1 | 1765.8 | 1765.8 |
| 37.5° | 1760.1 | 1764.4 | 1780.0 | 1798.4 | 1812.5 | 1815.4 | 1811.1 | 1795.6 | 1778.6 | 1765.8 | 1761.6 |
| 40°   | 1778.6 | 1782.8 | 1802.6 | 1832.4 | 1853.6 | 1857.9 | 1853.6 | 1831.0 | 1801.2 | 1781.4 | 1780.0 |
| 42.5° | 1781.4 | 1784.2 | 1808.3 | 1842.3 | 1862.1 | 1869.2 | 1862.1 | 1839.4 | 1806.9 | 1782.8 | 1781.4 |
| 45°   | 1771.5 | 1772.9 | 1801.2 | 1836.6 | 1860.7 | 1869.2 | 1860.7 | 1833.8 | 1799.8 | 1772.9 | 1771.5 |
| 47.5° | 1758.7 | 1761.6 | 1792.7 | 1829.5 | 1859.3 | 1864.9 | 1857.9 | 1828.1 | 1789.9 | 1763.0 | 1758.7 |
| 50°   | 1748.8 | 1757.3 | 1785.6 | 1826.7 | 1862.1 | 1879.1 | 1862.1 | 1822.5 | 1784.2 | 1754.5 | 1748.8 |
| 52.5° | 1754.5 | 1757.3 | 1794.1 | 1852.2 | 1900.3 | 1907.4 | 1898.9 | 1852.2 | 1791.3 | 1757.3 | 1753.1 |
| 55°   | 1771.5 | 1784.2 | 1823.9 | 1907.4 | 1951.3 | 1964.1 | 1945.7 | 1904.6 | 1825.3 | 1784.2 | 1771.5 |
| 57.5° | 1794.1 | 1798.4 | 1855.0 | 1928.7 | 1993.8 | 2032.0 | 1995.2 | 1927.2 | 1859.3 | 1795.6 | 1792.7 |
| 60°   | 1775.7 | 1763.0 | 1833.8 | 1920.2 | 2008.0 | 2023.5 | 2002.3 | 1921.6 | 1831.0 | 1761.6 | 1774.3 |
| 62.5° | 1726.2 | 1734.7 | 1792.7 | 1911.7 | 1972.6 | 1989.5 | 1966.9 | 1911.7 | 1789.9 | 1741.7 | 1721.9 |
| 65°   | 1686.5 | 1737.5 | 1801.2 | 1886.2 | 1983.9 | 2032.0 | 1985.3 | 1883.3 | 1804.0 | 1729.0 | 1682.3 |
| 67.5° | 1631.3 | 1641.2 | 1736.1 | 1840.9 | 1928.7 | 1952.7 | 1927.2 | 1842.3 | 1727.6 | 1634.1 | 1641.2 |
| 70°   | 1537.8 | 1523.7 | 1620.0 | 1741.7 | 1825.3 | 1863.5 | 1828.1 | 1736.1 | 1615.7 | 1520.8 | 1533.6 |
| 72.5° | 1383.5 | 1392.0 | 1481.2 | 1610.0 | 1696.4 | 1733.2 | 1697.8 | 1600.1 | 1478.4 | 1400.5 | 1392.0 |
| 75°   | 1222.1 | 1232.0 | 1318.3 | 1435.9 | 1523.7 | 1539.2 | 1529.3 | 1428.8 | 1321.2 | 1230.5 | 1222.1 |
| 77.5° | 1038.0 | 1047.9 | 1118.7 | 1247.5 | 1299.9 | 1324.0 | 1302.8 | 1254.6 | 1115.8 | 1046.5 | 1035.1 |
| 80°   | 834.1  | 831.2  | 893.5  | 1004.0 | 1069.1 | 1096.0 | 1069.1 | 1006.8 | 890.7  | 836.9  | 818.5  |
| 82.5° | 596.2  | 599.0  | 657.0  | 733.5  | 795.8  | 804.3  | 791.6  | 740.6  | 651.4  | 606.1  | 580.6  |
| 85°   | 331.4  | 344.1  | 386.6  | 443.2  | 484.3  | 498.4  | 477.2  | 429.1  | 385.2  | 349.8  | 338.4  |
| 87.5° | 79.3   | 86.4   | 100.5  | 127.4  | 143.0  | 157.2  | 143.0  | 133.1  | 94.9   | 86.4   | 79.3   |
| 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)