

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P632257

Luminaire Tested: GWS-SA2C-735-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632257  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2C-735-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

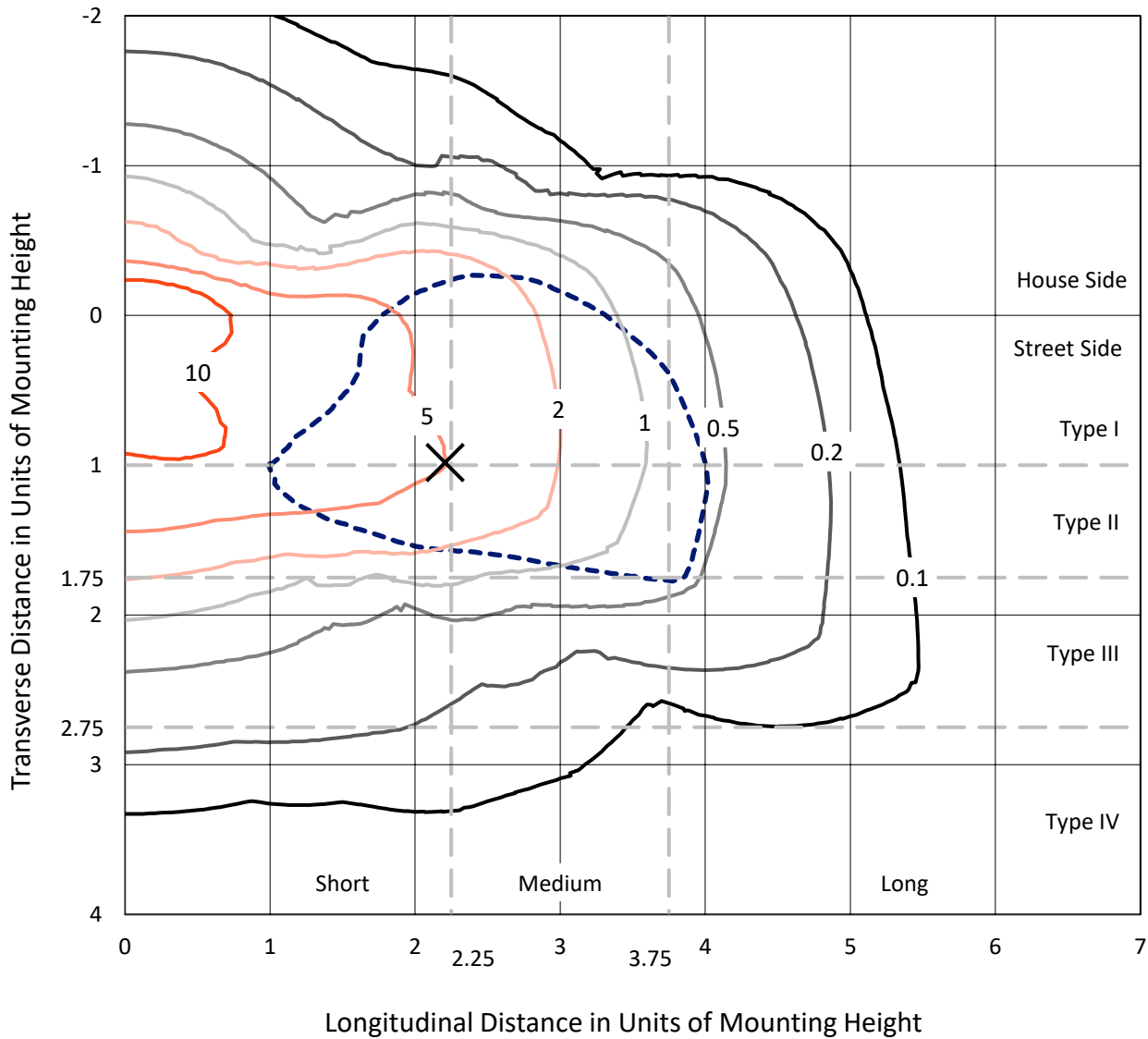
Lumens per Lamp: N/A  
Luminaire Lumens: 8970.4 lumens  
Efficiency: N/A  
Efficacy: 141.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
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

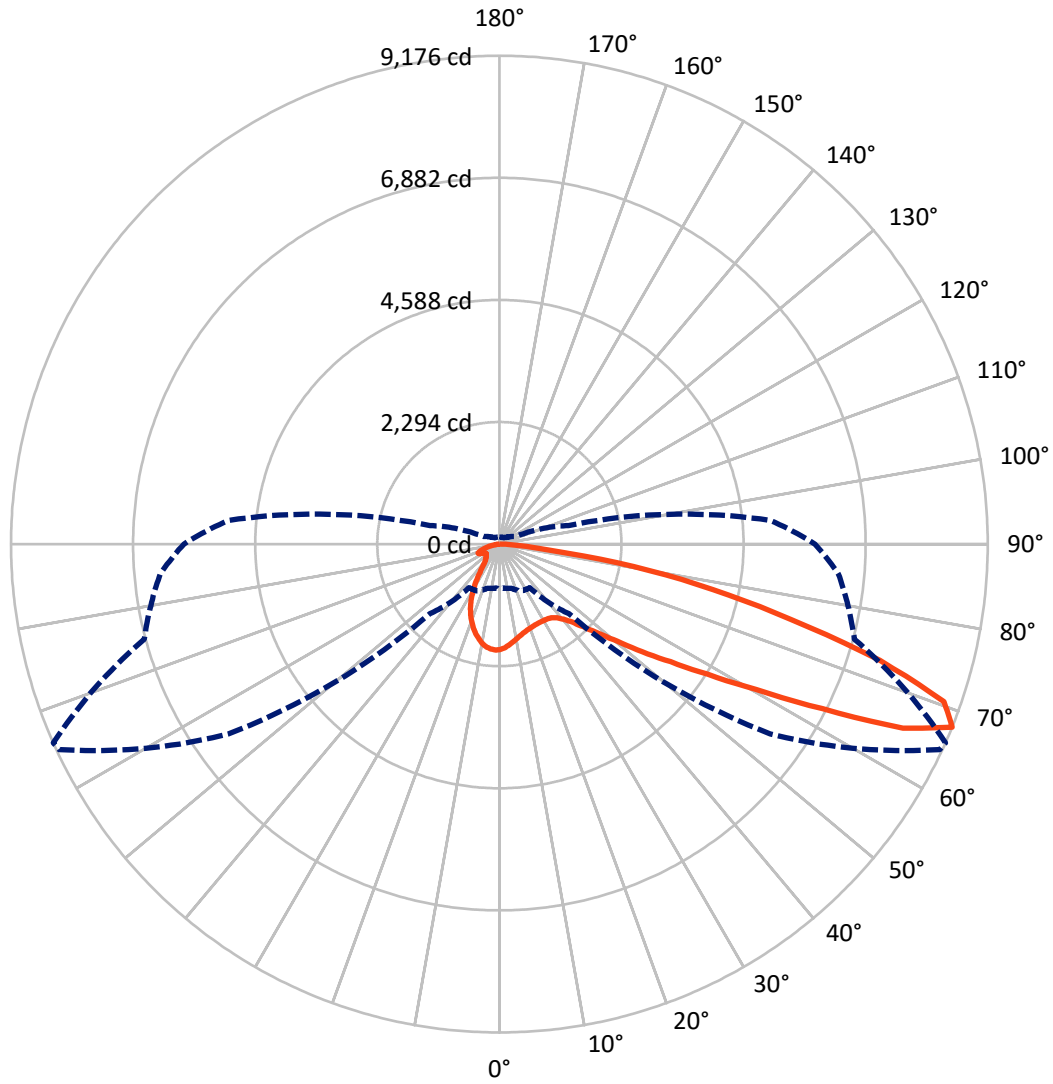
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1820.3   | 0.0    | 1820.3 |
|                    | % Fixture | 20.3     | 0.0    | 20.3   |
| <b>Street Side</b> | Lumens    | 7150.1   | 0.0    | 7150.1 |
|                    | % Fixture | 79.7     | 0.0    | 79.7   |
| <b>Total</b>       | Lumens    | 8970.4   | 0.0    | 8970.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 174.0  | 1.9       |
| 10°-20°   | 427.5  | 4.8       |
| 20°-30°   | 587.7  | 6.6       |
| 30°-40°   | 803.4  | 9.0       |
| 40°-50°   | 1217.4 | 13.6      |
| 50°-60°   | 1892.5 | 21.1      |
| 60°-70°   | 2304.1 | 25.7      |
| 70°-80°   | 1403.5 | 15.6      |
| 80°-90°   | 160.3  | 1.8       |
| 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°    | 8970.4 | 100.0     |
| 0°-180°   | 8970.4 | 100.0     |

**Coefficient of Utilization**



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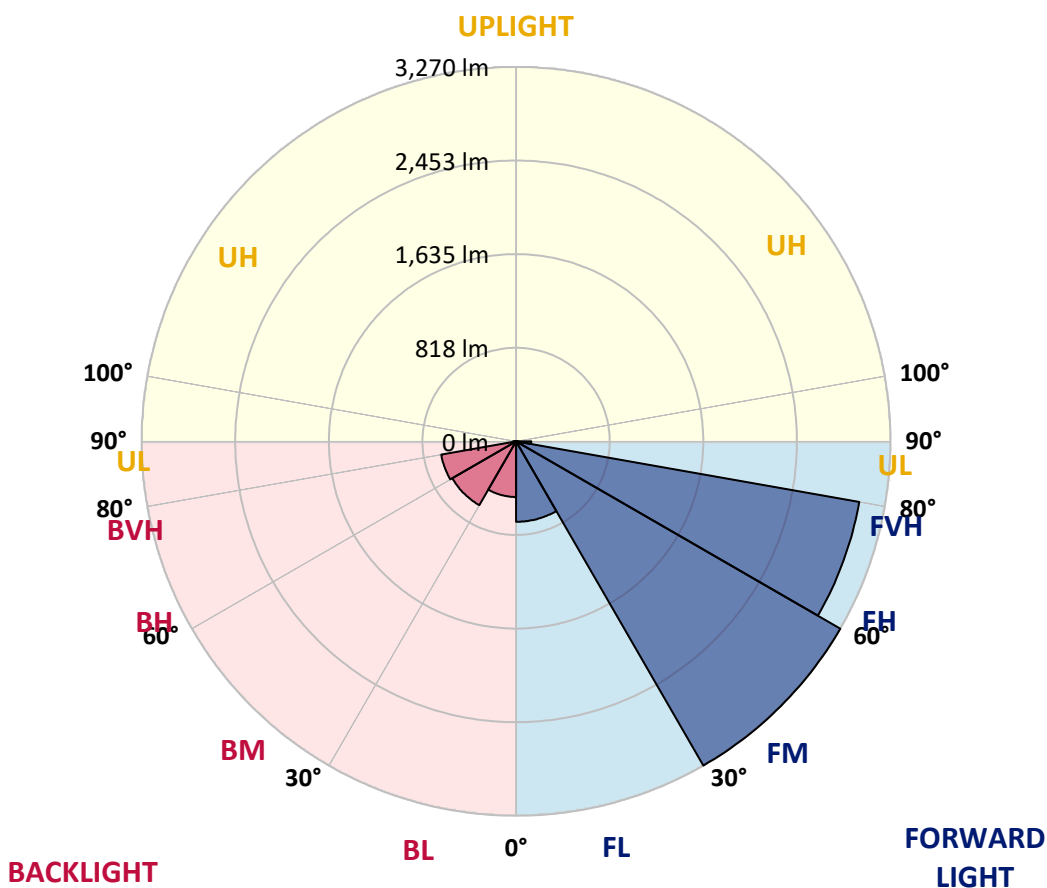
CATALOG NUMBER: GWS-SA2C-735-U-SL2-W

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 702.9  | 7.8       |                         |      |         |
| FM (30°-60°)   | 3270.1 | 36.5      |                         |      |         |
| FH (60°-80°)   | 3043.9 | 33.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 133.3  | 1.5       |                         |      | G2/225  |
| BL (0°-30°)    | 486.3  | 5.4       | B1/500                  |      |         |
| BM (30°-60°)   | 643.3  | 7.2       | B1/1000                 |      |         |
| BH (60°-80°)   | 663.7  | 7.4       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 27.0   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1982.2 | 1982.2 | 1982.2 | 1982.2 | 1982.2 | 1982.2 | 1982.2 | 1982.2 | 1982.2 | 1982.2 | 1982.2 |
| 2.5°  | 1856.6 | 1863.1 | 1859.2 | 1884.0 | 1885.4 | 1916.8 | 1934.4 | 1949.5 | 1950.8 | 1970.4 | 1983.5 |
| 5°    | 1729.6 | 1733.5 | 1733.5 | 1757.1 | 1772.8 | 1814.7 | 1855.2 | 1898.4 | 1901.7 | 1948.8 | 1984.8 |
| 7.5°  | 1626.9 | 1630.8 | 1628.2 | 1659.6 | 1679.9 | 1726.3 | 1778.0 | 1844.1 | 1850.7 | 1926.6 | 1989.4 |
| 10°   | 1546.4 | 1545.1 | 1551.6 | 1580.4 | 1606.6 | 1662.2 | 1719.8 | 1795.0 | 1804.9 | 1901.1 | 1994.6 |
| 12.5° | 1491.4 | 1492.7 | 1496.6 | 1526.7 | 1554.9 | 1609.8 | 1669.4 | 1751.2 | 1761.7 | 1871.6 | 1992.0 |
| 15°   | 1465.2 | 1462.6 | 1465.9 | 1493.4 | 1520.2 | 1568.6 | 1630.1 | 1714.6 | 1725.0 | 1845.4 | 1992.7 |
| 17.5° | 1459.3 | 1457.4 | 1456.7 | 1476.3 | 1496.6 | 1541.8 | 1600.7 | 1686.4 | 1697.5 | 1828.4 | 1996.6 |
| 20°   | 1477.7 | 1475.0 | 1467.8 | 1476.3 | 1484.9 | 1522.8 | 1579.7 | 1666.1 | 1678.6 | 1817.3 | 2004.5 |
| 22.5° | 1528.0 | 1523.5 | 1512.3 | 1501.9 | 1490.7 | 1513.6 | 1566.7 | 1651.1 | 1663.5 | 1810.1 | 2012.3 |
| 25°   | 1604.6 | 1600.7 | 1588.9 | 1565.3 | 1524.8 | 1520.8 | 1564.0 | 1644.5 | 1657.0 | 1804.9 | 2015.6 |
| 27.5° | 1710.0 | 1704.1 | 1692.3 | 1658.3 | 1592.2 | 1547.7 | 1573.9 | 1643.9 | 1655.7 | 1799.0 | 2012.3 |
| 30°   | 1835.0 | 1831.0 | 1824.5 | 1783.3 | 1694.9 | 1604.6 | 1596.1 | 1649.1 | 1658.3 | 1795.7 | 2005.8 |
| 32.5° | 1961.9 | 1958.0 | 1963.2 | 1943.6 | 1835.0 | 1698.8 | 1644.5 | 1663.5 | 1670.1 | 1795.0 | 1999.9 |
| 35°   | 2073.8 | 2078.4 | 2116.4 | 2119.6 | 2013.0 | 1826.5 | 1721.1 | 1696.9 | 1698.2 | 1808.1 | 2002.5 |
| 37.5° | 2191.0 | 2208.6 | 2258.4 | 2300.9 | 2211.9 | 1995.3 | 1835.0 | 1759.7 | 1758.4 | 1841.5 | 2018.9 |
| 40°   | 2346.1 | 2353.9 | 2417.4 | 2497.2 | 2441.6 | 2227.0 | 1996.6 | 1862.4 | 1853.3 | 1909.6 | 2062.7 |
| 42.5° | 2497.2 | 2516.2 | 2617.6 | 2709.3 | 2690.9 | 2488.1 | 2200.1 | 2016.2 | 1999.9 | 2030.0 | 2153.0 |
| 45°   | 2689.6 | 2707.9 | 2821.8 | 2939.6 | 2973.0 | 2783.2 | 2460.6 | 2234.8 | 2218.4 | 2211.2 | 2318.6 |
| 47.5° | 2882.0 | 2901.0 | 3003.1 | 3173.2 | 3290.4 | 3152.3 | 2799.6 | 2523.4 | 2496.6 | 2468.4 | 2568.6 |
| 50°   | 3011.6 | 3033.8 | 3131.3 | 3335.5 | 3610.4 | 3613.0 | 3201.4 | 2901.6 | 2867.6 | 2823.1 | 2920.6 |
| 52.5° | 3007.0 | 3021.4 | 3114.3 | 3349.9 | 3840.7 | 4142.4 | 3739.3 | 3383.3 | 3355.8 | 3259.0 | 3344.0 |
| 55°   | 2770.8 | 2792.4 | 2885.9 | 3180.4 | 3865.6 | 4644.3 | 4529.8 | 3951.3 | 3902.2 | 3728.8 | 3822.4 |
| 57.5° | 2296.3 | 2314.6 | 2408.9 | 2772.1 | 3645.1 | 4901.5 | 5533.7 | 4675.1 | 4607.7 | 4240.6 | 4348.5 |
| 60°   | 1733.5 | 1711.3 | 1755.8 | 2073.8 | 3117.6 | 4908.1 | 6419.7 | 5656.7 | 5544.1 | 4787.7 | 4878.0 |
| 62.5° | 1301.0 | 1278.7 | 1288.5 | 1378.2 | 2113.7 | 4511.5 | 6925.0 | 6999.6 | 6813.7 | 5405.4 | 5387.7 |
| 65°   | 1028.1 | 1015.6 | 1043.8 | 1105.3 | 1232.3 | 3435.6 | 6928.9 | 8451.7 | 8334.5 | 6121.3 | 5910.6 |
| 67.5° | 837.6  | 829.8  | 858.6  | 972.5  | 999.3  | 1846.1 | 6213.0 | 9129.7 | 9175.5 | 6905.3 | 6395.5 |
| 70°   | 674.7  | 662.9  | 708.1  | 857.9  | 929.3  | 1117.1 | 4450.6 | 8784.1 | 8858.1 | 7372.6 | 6258.8 |
| 72.5° | 465.9  | 466.6  | 489.5  | 695.0  | 897.2  | 964.6  | 2517.5 | 7314.3 | 7474.7 | 6949.2 | 5502.3 |
| 75°   | 314.1  | 316.7  | 323.3  | 458.7  | 826.5  | 935.8  | 1341.5 | 5537.6 | 5650.8 | 5743.7 | 4548.1 |
| 77.5° | 189.8  | 191.1  | 206.1  | 277.5  | 570.0  | 873.6  | 909.0  | 4014.1 | 4103.1 | 3786.4 | 2819.2 |
| 80°   | 109.9  | 114.5  | 128.3  | 185.9  | 384.8  | 656.4  | 703.5  | 2461.2 | 2562.0 | 1683.1 | 895.9  |
| 82.5° | 48.4   | 51.7   | 70.0   | 108.0  | 224.5  | 558.2  | 549.0  | 972.5  | 958.1  | 469.2  | 310.8  |
| 85°   | 8.5    | 10.5   | 15.1   | 34.0   | 82.5   | 294.5  | 426.0  | 429.3  | 403.8  | 178.0  | 128.9  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.0    | 64.1   | 115.2  | 114.5  | 50.4   | 44.5   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1982.2 | 1982.2 | 1982.2 | 1982.2 | 1982.2 | 1982.2 | 1982.2 | 1982.2 | 1982.2 | 1982.2 | 1982.2 |
| 2.5°  | 1992.0 | 1974.4 | 1990.1 | 1992.0 | 1988.7 | 1986.1 | 1966.5 | 1949.5 | 1947.5 | 1929.2 | 1929.2 |
| 5°    | 1999.2 | 1982.9 | 1990.7 | 1975.7 | 1952.1 | 1927.9 | 1886.0 | 1857.2 | 1844.1 | 1820.6 | 1820.6 |
| 7.5°  | 2009.0 | 1992.0 | 1982.9 | 1945.6 | 1890.6 | 1837.6 | 1770.2 | 1713.9 | 1691.0 | 1657.6 | 1656.3 |
| 10°   | 2018.2 | 1996.6 | 1965.2 | 1892.5 | 1804.9 | 1720.4 | 1622.3 | 1542.4 | 1488.1 | 1448.2 | 1448.2 |
| 12.5° | 2017.5 | 1989.4 | 1927.2 | 1819.9 | 1698.8 | 1576.5 | 1445.6 | 1325.2 | 1253.2 | 1191.0 | 1187.1 |
| 15°   | 2016.2 | 1977.6 | 1878.8 | 1735.5 | 1575.2 | 1405.7 | 1227.7 | 1070.6 | 963.9  | 903.1  | 897.8  |
| 17.5° | 2014.9 | 1962.6 | 1824.5 | 1639.3 | 1424.6 | 1193.6 | 958.7  | 788.6  | 699.6  | 662.3  | 663.6  |
| 20°   | 2014.9 | 1945.6 | 1766.2 | 1528.7 | 1251.2 | 939.7  | 703.5  | 579.8  | 557.6  | 559.5  | 561.5  |
| 22.5° | 2009.0 | 1924.6 | 1701.5 | 1408.3 | 1058.2 | 691.1  | 518.9  | 477.1  | 488.8  | 507.2  | 509.8  |
| 25°   | 1995.3 | 1889.9 | 1626.2 | 1274.8 | 828.5  | 503.2  | 423.4  | 415.5  | 437.1  | 460.0  | 466.6  |
| 27.5° | 1973.7 | 1850.0 | 1541.8 | 1118.4 | 609.9  | 404.4  | 372.4  | 371.7  | 388.7  | 405.7  | 411.6  |
| 30°   | 1950.8 | 1805.5 | 1452.8 | 944.3  | 441.7  | 352.1  | 339.6  | 339.6  | 348.1  | 358.6  | 357.3  |
| 32.5° | 1924.0 | 1760.4 | 1357.2 | 763.0  | 359.9  | 322.6  | 318.7  | 316.7  | 318.0  | 322.0  | 322.0  |
| 35°   | 1901.1 | 1720.4 | 1259.1 | 571.3  | 322.6  | 306.3  | 302.3  | 297.8  | 295.8  | 293.2  | 294.5  |
| 37.5° | 1892.5 | 1689.0 | 1157.6 | 430.6  | 304.3  | 294.5  | 287.9  | 281.4  | 276.8  | 275.5  | 274.9  |
| 40°   | 1906.3 | 1675.9 | 1056.2 | 354.7  | 291.2  | 282.1  | 274.9  | 266.3  | 262.4  | 262.4  | 262.4  |
| 42.5° | 1960.0 | 1685.8 | 952.8  | 320.7  | 282.1  | 271.6  | 261.1  | 253.3  | 251.9  | 253.3  | 253.9  |
| 45°   | 2058.1 | 1723.7 | 845.5  | 303.6  | 274.2  | 261.1  | 248.7  | 242.8  | 242.8  | 244.1  | 244.1  |
| 47.5° | 2233.5 | 1823.2 | 739.5  | 293.2  | 266.3  | 252.6  | 239.5  | 233.6  | 233.0  | 234.3  | 234.3  |
| 50°   | 2537.1 | 2002.5 | 643.9  | 286.0  | 260.5  | 246.1  | 233.0  | 225.1  | 223.2  | 222.5  | 222.5  |
| 52.5° | 2920.0 | 2313.3 | 583.1  | 280.7  | 253.3  | 238.9  | 225.8  | 215.3  | 211.4  | 209.4  | 209.4  |
| 55°   | 3382.6 | 2727.6 | 583.1  | 276.8  | 244.1  | 230.4  | 215.3  | 204.8  | 198.9  | 196.3  | 196.3  |
| 57.5° | 3906.8 | 3209.9 | 683.9  | 273.5  | 236.9  | 220.5  | 204.2  | 193.7  | 187.2  | 183.2  | 183.2  |
| 60°   | 4440.2 | 3719.7 | 933.2  | 269.0  | 230.4  | 208.1  | 191.7  | 181.9  | 173.4  | 168.8  | 168.2  |
| 62.5° | 4993.1 | 4281.1 | 1261.7 | 271.6  | 225.8  | 196.3  | 178.7  | 167.5  | 160.3  | 155.7  | 155.1  |
| 65°   | 5499.7 | 4815.8 | 1549.0 | 291.9  | 226.4  | 185.9  | 163.6  | 153.8  | 147.9  | 142.0  | 141.4  |
| 67.5° | 5929.6 | 5110.9 | 1347.4 | 333.1  | 240.2  | 173.4  | 148.6  | 138.7  | 133.5  | 129.6  | 128.9  |
| 70°   | 5628.6 | 4660.7 | 764.3  | 358.6  | 259.1  | 160.3  | 131.5  | 125.0  | 119.8  | 117.1  | 116.5  |
| 72.5° | 4813.2 | 3946.1 | 511.1  | 316.7  | 236.2  | 143.3  | 115.8  | 110.6  | 106.7  | 103.4  | 102.7  |
| 75°   | 3899.0 | 3129.4 | 390.7  | 259.8  | 183.9  | 116.5  | 99.5   | 95.5   | 91.6   | 88.3   | 87.7   |
| 77.5° | 2306.8 | 1808.1 | 287.9  | 205.5  | 129.6  | 91.0   | 82.5   | 79.2   | 75.3   | 72.6   | 72.0   |
| 80°   | 736.2  | 628.2  | 182.6  | 141.4  | 85.7   | 70.0   | 63.5   | 60.9   | 56.9   | 53.7   | 53.0   |
| 82.5° | 280.7  | 242.8  | 96.9   | 72.0   | 56.9   | 47.8   | 42.5   | 39.9   | 37.3   | 34.0   | 33.4   |
| 85°   | 124.3  | 116.5  | 53.7   | 38.6   | 30.8   | 23.6   | 20.9   | 19.6   | 16.4   | 13.7   | 13.1   |
| 87.5° | 43.8   | 43.8   | 22.9   | 11.1   | 6.5    | 3.3    | 2.0    | 0.7    | 0.0    | 0.0    | 0.0    |
| 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)