

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: P634291

Luminaire Tested: GWS-SA3B-740-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634291  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3B-740-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

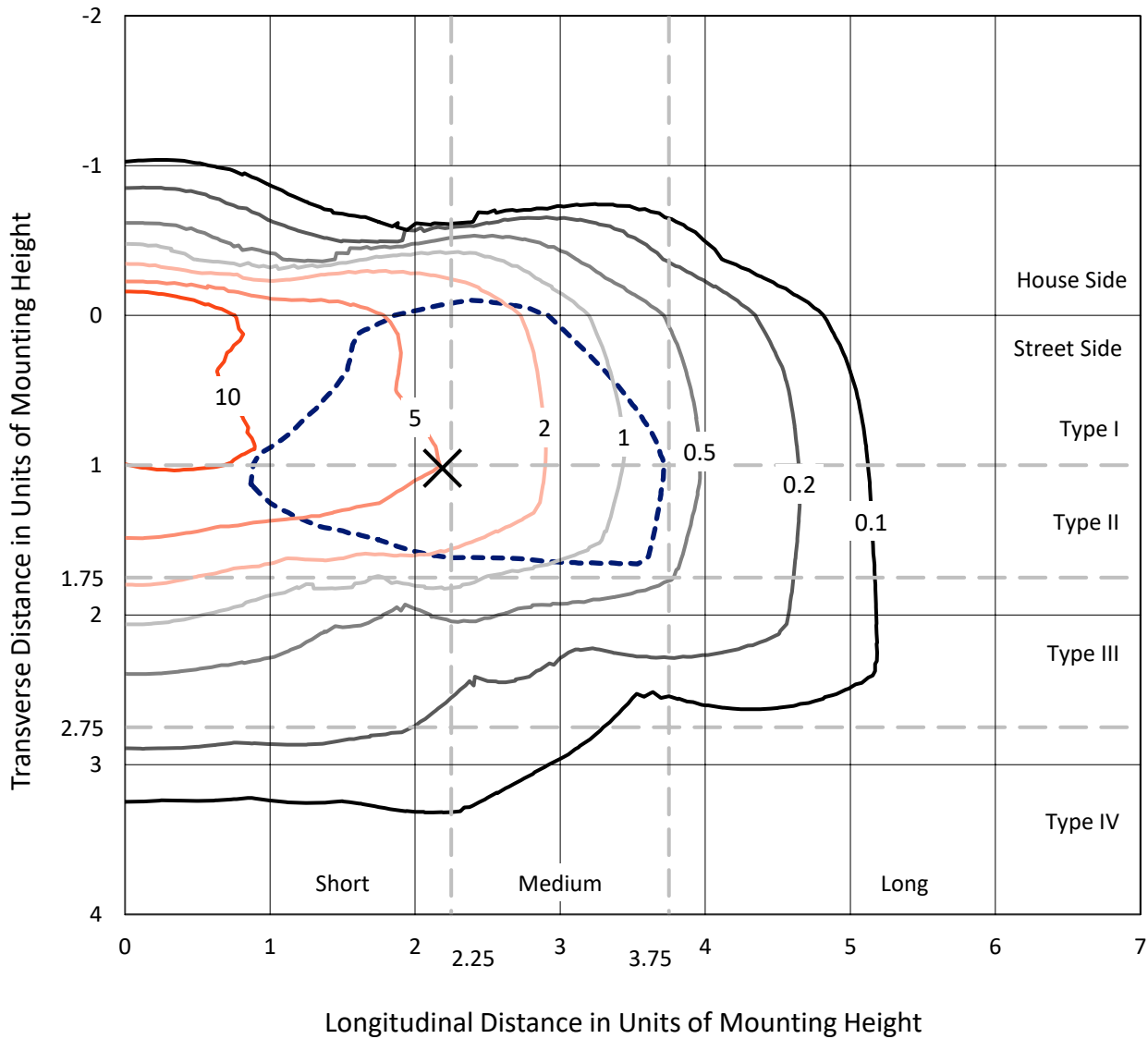
Lumens per Lamp: N/A  
Luminaire Lumens: 8245.4 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 68.3  
Input Voltage (V): 120  
Input Current (Ain): 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

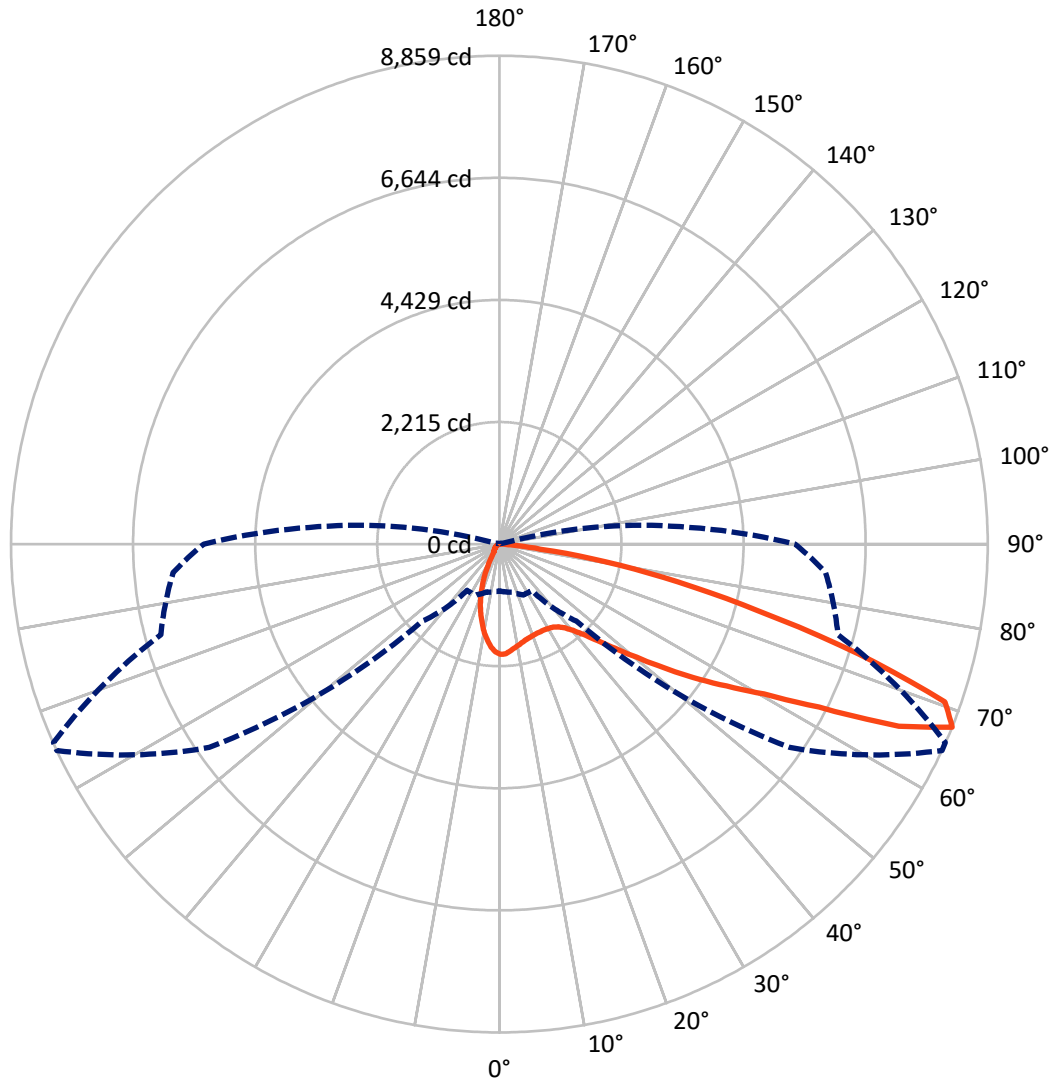
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1029.6   | 0.0    | 1029.6 |
|                    | % Fixture | 12.5     | 0.0    | 12.5   |
| <b>Street Side</b> | Lumens    | 7215.8   | 0.0    | 7215.8 |
|                    | % Fixture | 87.5     | 0.0    | 87.5   |
| <b>Total</b>       | Lumens    | 8245.4   | 0.0    | 8245.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 166.1  | 2.0       |
| 10°-20°   | 373.4  | 4.5       |
| 20°-30°   | 533.5  | 6.5       |
| 30°-40°   | 776.2  | 9.4       |
| 40°-50°   | 1215.7 | 14.7      |
| 50°-60°   | 1896.5 | 23.0      |
| 60°-70°   | 2083.2 | 25.3      |
| 70°-80°   | 1108.7 | 13.4      |
| 80°-90°   | 92.3   | 1.1       |
| 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°    | 8245.4 | 100.0     |
| 0°-180°   | 8245.4 | 100.0     |

**Coefficient of Utilization**



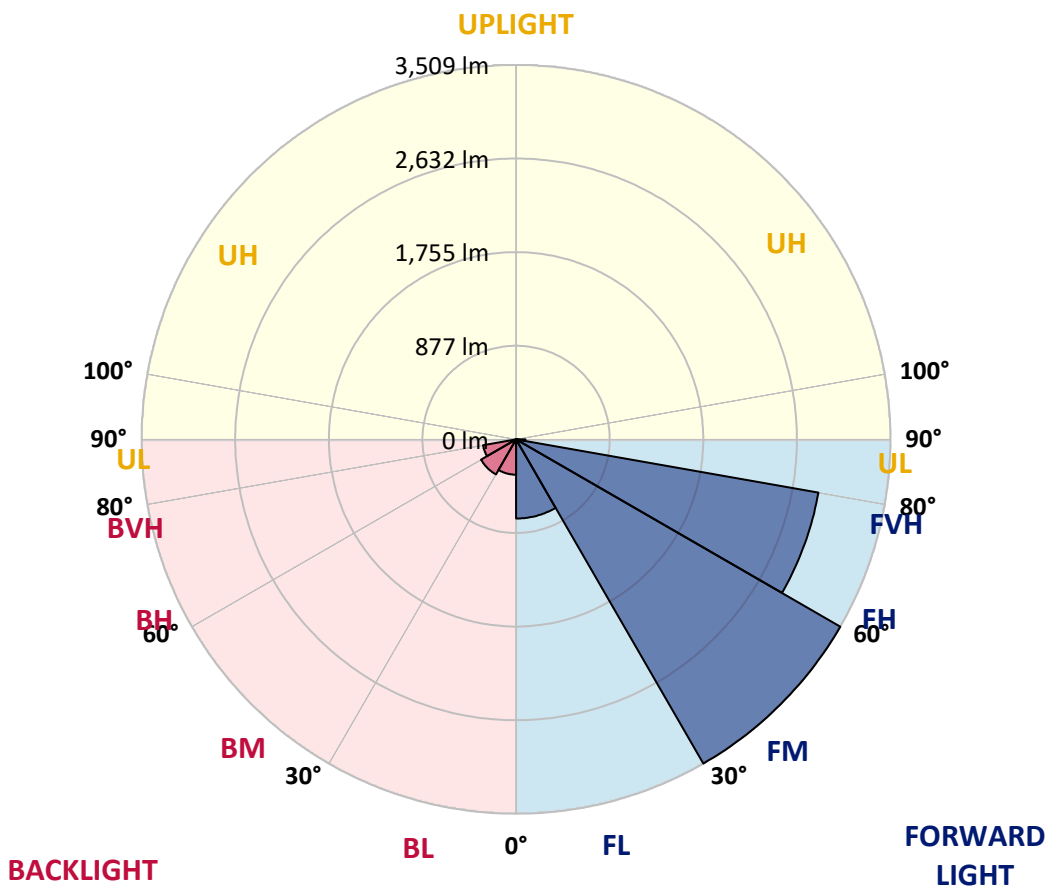
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 742.0  | 9.0       |                         |      |         |
| FM (30°-60°)   | 3509.1 | 42.6      |                         |      |         |
| FH (60°-80°)   | 2877.3 | 34.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 87.4   | 1.1       |                         |      | G1/100  |
| BL (0°-30°)    | 330.9  | 4.0       | B1/500                  |      |         |
| BM (30°-60°)   | 379.3  | 4.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 314.5  | 3.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 4.9    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1999.8 | 1999.8 | 1999.8 | 1999.8 | 1999.8 | 1999.8 | 1999.8 | 1999.8 | 1999.8 | 1999.8 | 1999.8 |
| 2.5°  | 1930.4 | 1936.4 | 1928.2 | 1948.3 | 1952.0 | 1974.4 | 1987.1 | 1996.0 | 1995.3 | 2006.5 | 2006.5 |
| 5°    | 1817.1 | 1823.1 | 1818.6 | 1840.2 | 1857.4 | 1892.4 | 1921.5 | 1955.0 | 1956.5 | 1990.8 | 2003.5 |
| 7.5°  | 1720.9 | 1721.7 | 1721.7 | 1748.5 | 1770.9 | 1814.1 | 1857.4 | 1908.8 | 1914.8 | 1967.7 | 2001.3 |
| 10°   | 1641.9 | 1644.1 | 1644.9 | 1675.4 | 1700.0 | 1752.2 | 1807.4 | 1869.3 | 1876.0 | 1947.6 | 1999.8 |
| 12.5° | 1587.4 | 1588.2 | 1591.2 | 1623.2 | 1650.1 | 1704.5 | 1760.4 | 1831.3 | 1840.2 | 1924.5 | 1993.1 |
| 15°   | 1561.3 | 1559.8 | 1561.3 | 1588.2 | 1615.0 | 1667.2 | 1724.6 | 1800.7 | 1810.4 | 1905.1 | 1993.8 |
| 17.5° | 1559.8 | 1557.6 | 1556.1 | 1576.3 | 1593.4 | 1639.6 | 1697.8 | 1780.6 | 1791.0 | 1896.1 | 2002.0 |
| 20°   | 1581.5 | 1580.0 | 1572.5 | 1581.5 | 1585.2 | 1623.2 | 1680.6 | 1764.9 | 1775.3 | 1894.6 | 2019.9 |
| 22.5° | 1638.1 | 1634.4 | 1623.2 | 1615.0 | 1594.9 | 1617.3 | 1668.7 | 1753.7 | 1765.6 | 1898.4 | 2043.0 |
| 25°   | 1722.4 | 1720.9 | 1706.7 | 1686.6 | 1635.2 | 1626.2 | 1669.5 | 1753.7 | 1764.9 | 1902.8 | 2067.6 |
| 27.5° | 1849.2 | 1840.2 | 1822.3 | 1787.3 | 1713.4 | 1661.3 | 1684.4 | 1758.2 | 1769.4 | 1908.8 | 2087.8 |
| 30°   | 1978.1 | 1977.4 | 1971.4 | 1935.6 | 1826.0 | 1728.4 | 1715.7 | 1770.1 | 1780.6 | 1914.0 | 2106.4 |
| 32.5° | 2111.6 | 2113.9 | 2128.8 | 2101.2 | 1981.1 | 1828.3 | 1772.4 | 1794.7 | 1802.2 | 1924.5 | 2122.8 |
| 35°   | 2238.4 | 2242.8 | 2282.4 | 2292.1 | 2169.8 | 1979.6 | 1864.8 | 1843.9 | 1844.7 | 1947.6 | 2144.4 |
| 37.5° | 2359.9 | 2374.8 | 2438.2 | 2485.2 | 2404.6 | 2163.1 | 1998.3 | 1927.4 | 1921.5 | 1993.8 | 2177.2 |
| 40°   | 2497.8 | 2526.2 | 2606.0 | 2685.7 | 2660.4 | 2405.4 | 2180.2 | 2055.7 | 2043.0 | 2078.8 | 2236.1 |
| 42.5° | 2650.7 | 2681.3 | 2787.2 | 2899.0 | 2910.9 | 2698.4 | 2407.6 | 2242.8 | 2221.2 | 2222.0 | 2346.5 |
| 45°   | 2814.7 | 2855.7 | 2978.8 | 3139.8 | 3212.2 | 3025.0 | 2688.0 | 2495.6 | 2474.0 | 2441.9 | 2523.9 |
| 47.5° | 3030.2 | 3066.0 | 3184.6 | 3370.2 | 3508.9 | 3375.4 | 3055.6 | 2820.7 | 2781.2 | 2734.2 | 2799.8 |
| 50°   | 3215.9 | 3247.2 | 3349.4 | 3582.0 | 3870.5 | 3827.3 | 3472.4 | 3227.1 | 3189.0 | 3109.3 | 3163.7 |
| 52.5° | 3256.9 | 3281.5 | 3375.4 | 3637.2 | 4147.2 | 4397.7 | 3983.1 | 3718.4 | 3691.6 | 3544.0 | 3564.8 |
| 55°   | 3072.7 | 3110.0 | 3194.3 | 3485.1 | 4219.5 | 4955.4 | 4646.0 | 4272.4 | 4216.5 | 3980.9 | 4018.2 |
| 57.5° | 2607.5 | 2673.8 | 2752.9 | 3130.9 | 4023.4 | 5252.2 | 5572.1 | 4859.2 | 4808.5 | 4401.4 | 4402.2 |
| 60°   | 1911.0 | 1964.7 | 2017.7 | 2363.6 | 3558.1 | 5232.1 | 6412.4 | 5518.4 | 5425.9 | 4745.2 | 4732.5 |
| 62.5° | 1389.8 | 1417.4 | 1416.7 | 1539.7 | 2443.4 | 4887.6 | 6853.8 | 6511.6 | 6296.1 | 5112.8 | 5040.4 |
| 65°   | 1093.1 | 1092.3 | 1124.4 | 1164.7 | 1364.5 | 3772.9 | 6908.2 | 7961.8 | 7729.2 | 5605.6 | 5455.0 |
| 67.5° | 850.8  | 867.2  | 899.2  | 1017.8 | 1025.2 | 1974.4 | 6429.5 | 8858.8 | 8854.3 | 6358.0 | 5940.4 |
| 70°   | 656.2  | 678.5  | 724.0  | 897.0  | 946.9  | 1105.0 | 4810.8 | 8574.7 | 8647.0 | 6694.2 | 5596.7 |
| 72.5° | 421.3  | 419.8  | 486.9  | 724.7  | 909.7  | 920.8  | 2660.4 | 6811.3 | 6893.3 | 6063.4 | 4525.2 |
| 75°   | 235.6  | 237.1  | 275.1  | 443.6  | 847.8  | 866.4  | 1317.5 | 4857.0 | 4921.9 | 4727.3 | 3476.9 |
| 77.5° | 92.5   | 95.4   | 129.0  | 233.4  | 559.2  | 774.0  | 782.9  | 3312.1 | 3321.8 | 2929.6 | 2132.5 |
| 80°   | 37.3   | 39.5   | 65.6   | 144.7  | 340.8  | 521.2  | 559.2  | 1951.3 | 1911.8 | 1134.1 | 620.4  |
| 82.5° | 11.2   | 11.9   | 26.1   | 82.0   | 178.2  | 370.6  | 377.3  | 748.6  | 706.9  | 243.8  | 158.1  |
| 85°   | 0.7    | 0.7    | 6.0    | 25.4   | 63.4   | 93.2   | 251.3  | 243.8  | 216.2  | 61.1   | 70.1   |
| 87.5° | 0.0    | 0.0    | 0.7    | 0.7    | 1.5    | 3.0    | 26.8   | 44.7   | 45.5   | 11.2   | 31.3   |
| 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°    | 1999.8 | 1999.8 | 1999.8 | 1999.8 | 1999.8 | 1999.8 | 1999.8 | 1999.8 | 1999.8 | 1999.8 | 1999.8 |
| 2.5°  | 2006.5 | 1979.6 | 1977.4 | 1956.5 | 1935.6 | 1909.5 | 1879.0 | 1856.6 | 1841.0 | 1813.4 | 1808.1 |
| 5°    | 2003.5 | 1967.7 | 1934.2 | 1874.5 | 1808.1 | 1736.6 | 1673.9 | 1615.8 | 1579.2 | 1554.6 | 1544.2 |
| 7.5°  | 1997.5 | 1952.0 | 1874.5 | 1761.9 | 1650.8 | 1525.6 | 1427.9 | 1338.4 | 1277.3 | 1241.5 | 1225.8 |
| 10°   | 1993.1 | 1931.9 | 1805.9 | 1635.2 | 1462.9 | 1289.9 | 1141.6 | 1008.8 | 935.0  | 876.9  | 867.2  |
| 12.5° | 1984.1 | 1902.8 | 1717.9 | 1486.8 | 1264.6 | 1034.9 | 845.5  | 683.0  | 570.4  | 519.7  | 501.8  |
| 15°   | 1975.2 | 1872.3 | 1629.9 | 1330.2 | 1048.4 | 765.0  | 535.4  | 378.8  | 301.2  | 277.4  | 275.9  |
| 17.5° | 1973.7 | 1844.7 | 1534.5 | 1181.8 | 821.7  | 501.1  | 305.0  | 245.3  | 228.9  | 222.9  | 222.9  |
| 20°   | 1978.1 | 1821.6 | 1440.5 | 1011.1 | 598.7  | 305.0  | 227.4  | 212.5  | 202.8  | 197.6  | 197.6  |
| 22.5° | 1982.6 | 1797.7 | 1350.3 | 838.8  | 397.4  | 222.9  | 200.6  | 187.9  | 176.7  | 170.7  | 167.8  |
| 25°   | 1985.6 | 1771.6 | 1250.4 | 665.8  | 259.5  | 193.9  | 176.0  | 159.6  | 146.1  | 138.7  | 138.7  |
| 27.5° | 1984.9 | 1740.3 | 1149.8 | 496.6  | 201.3  | 172.2  | 150.6  | 133.5  | 120.0  | 111.8  | 112.6  |
| 30°   | 1978.9 | 1706.0 | 1045.4 | 346.7  | 176.0  | 150.6  | 129.0  | 111.1  | 97.7   | 91.0   | 90.2   |
| 32.5° | 1974.4 | 1669.5 | 924.6  | 243.8  | 158.1  | 132.0  | 109.6  | 92.5   | 81.3   | 76.1   | 75.3   |
| 35°   | 1969.2 | 1633.7 | 809.7  | 185.7  | 142.4  | 114.1  | 92.5   | 78.3   | 69.3   | 64.9   | 64.9   |
| 37.5° | 1970.7 | 1596.4 | 685.2  | 159.6  | 126.8  | 99.2   | 79.0   | 67.1   | 59.7   | 55.2   | 54.4   |
| 40°   | 1993.8 | 1574.0 | 562.9  | 144.7  | 112.6  | 85.7   | 68.6   | 58.2   | 50.7   | 46.2   | 45.5   |
| 42.5° | 2051.2 | 1574.8 | 445.9  | 133.5  | 99.9   | 73.1   | 59.7   | 50.0   | 43.2   | 38.0   | 37.3   |
| 45°   | 2166.0 | 1606.1 | 342.2  | 121.5  | 86.5   | 63.4   | 51.4   | 42.5   | 35.8   | 31.3   | 30.6   |
| 47.5° | 2353.9 | 1699.3 | 259.5  | 111.1  | 75.3   | 55.2   | 44.0   | 35.8   | 29.8   | 26.1   | 25.4   |
| 50°   | 2652.9 | 1867.8 | 204.3  | 98.4   | 63.4   | 47.7   | 37.3   | 29.8   | 24.6   | 20.9   | 20.1   |
| 52.5° | 3012.3 | 2120.6 | 175.2  | 87.2   | 54.4   | 41.8   | 32.1   | 24.6   | 20.1   | 17.1   | 16.4   |
| 55°   | 3425.4 | 2422.5 | 161.8  | 76.1   | 46.2   | 35.8   | 26.1   | 20.1   | 16.4   | 14.2   | 12.7   |
| 57.5° | 3804.2 | 2694.7 | 161.1  | 64.9   | 39.5   | 30.6   | 21.6   | 17.1   | 14.2   | 11.2   | 10.4   |
| 60°   | 4173.3 | 2922.1 | 151.4  | 53.7   | 34.3   | 25.4   | 18.6   | 14.2   | 11.9   | 9.7    | 8.9    |
| 62.5° | 4508.1 | 3107.0 | 126.8  | 43.2   | 29.1   | 20.9   | 15.7   | 12.7   | 10.4   | 8.2    | 8.2    |
| 65°   | 4928.6 | 3342.6 | 96.9   | 35.0   | 23.9   | 17.1   | 13.4   | 11.2   | 9.7    | 7.5    | 7.5    |
| 67.5° | 5363.3 | 3467.2 | 69.3   | 29.1   | 19.4   | 14.9   | 11.9   | 10.4   | 8.2    | 6.7    | 6.7    |
| 70°   | 4857.8 | 2929.6 | 50.0   | 23.9   | 16.4   | 12.7   | 10.4   | 9.7    | 8.2    | 6.7    | 6.0    |
| 72.5° | 3793.7 | 2112.4 | 37.3   | 18.6   | 14.2   | 11.9   | 9.7    | 8.9    | 7.5    | 6.0    | 6.0    |
| 75°   | 2813.2 | 1231.8 | 28.3   | 14.9   | 11.2   | 9.7    | 9.7    | 8.9    | 7.5    | 6.0    | 5.2    |
| 77.5° | 1529.3 | 429.5  | 21.6   | 11.9   | 8.9    | 7.5    | 8.2    | 8.2    | 6.7    | 5.2    | 4.5    |
| 80°   | 404.9  | 117.8  | 14.9   | 8.9    | 7.5    | 6.0    | 6.0    | 7.5    | 6.0    | 4.5    | 4.5    |
| 82.5° | 117.8  | 34.3   | 10.4   | 7.5    | 6.0    | 5.2    | 5.2    | 5.2    | 4.5    | 3.7    | 3.0    |
| 85°   | 57.4   | 12.7   | 7.5    | 6.0    | 5.2    | 4.5    | 3.7    | 3.7    | 3.0    | 2.2    | 2.2    |
| 87.5° | 25.4   | 5.2    | 6.0    | 5.2    | 5.2    | 3.7    | 3.0    | 2.2    | 2.2    | 1.5    | 0.7    |
| 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)