

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: P634401

Luminaire Tested: GWS-SA3B-760-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634401  
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-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

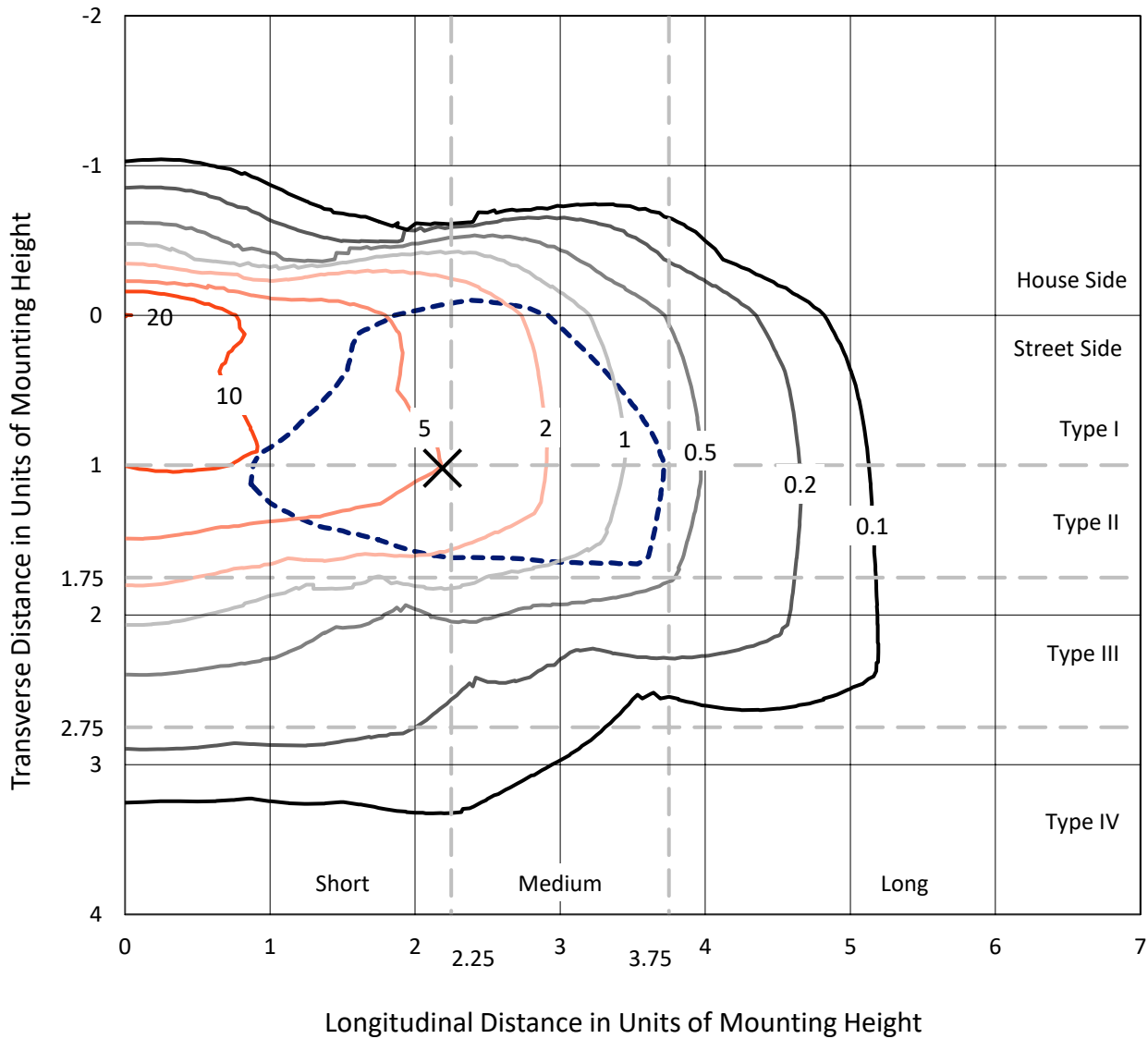
Lumens per Lamp: N/A  
Luminaire Lumens: 8318.8 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 68.3  
Input Voltage (V): 120  
Input Current (Ain): 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

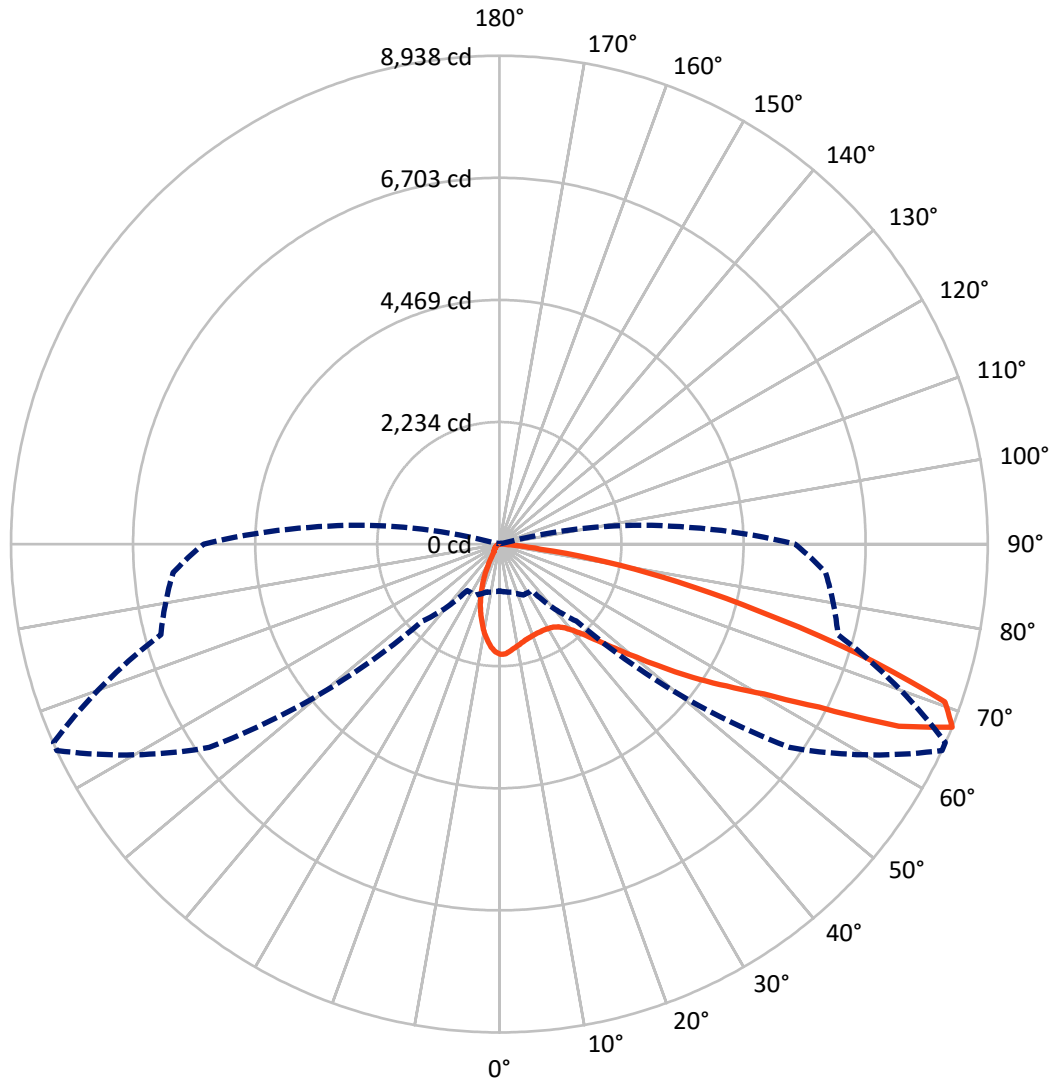
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.2 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    | 1038.8   | 0.0    | 1038.8 |
|                    | % Fixture | 12.5     | 0.0    | 12.5   |
| <b>Street Side</b> | Lumens    | 7280.0   | 0.0    | 7280.0 |
|                    | % Fixture | 87.5     | 0.0    | 87.5   |
| <b>Total</b>       | Lumens    | 8318.8   | 0.0    | 8318.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 167.6  | 2.0       |
| 10°-20°   | 376.7  | 4.5       |
| 20°-30°   | 538.3  | 6.5       |
| 30°-40°   | 783.1  | 9.4       |
| 40°-50°   | 1226.5 | 14.7      |
| 50°-60°   | 1913.3 | 23.0      |
| 60°-70°   | 2101.7 | 25.3      |
| 70°-80°   | 1118.5 | 13.4      |
| 80°-90°   | 93.1   | 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°    | 8318.8 | 100.0     |
| 0°-180°   | 8318.8 | 100.0     |

**Coefficient of Utilization**

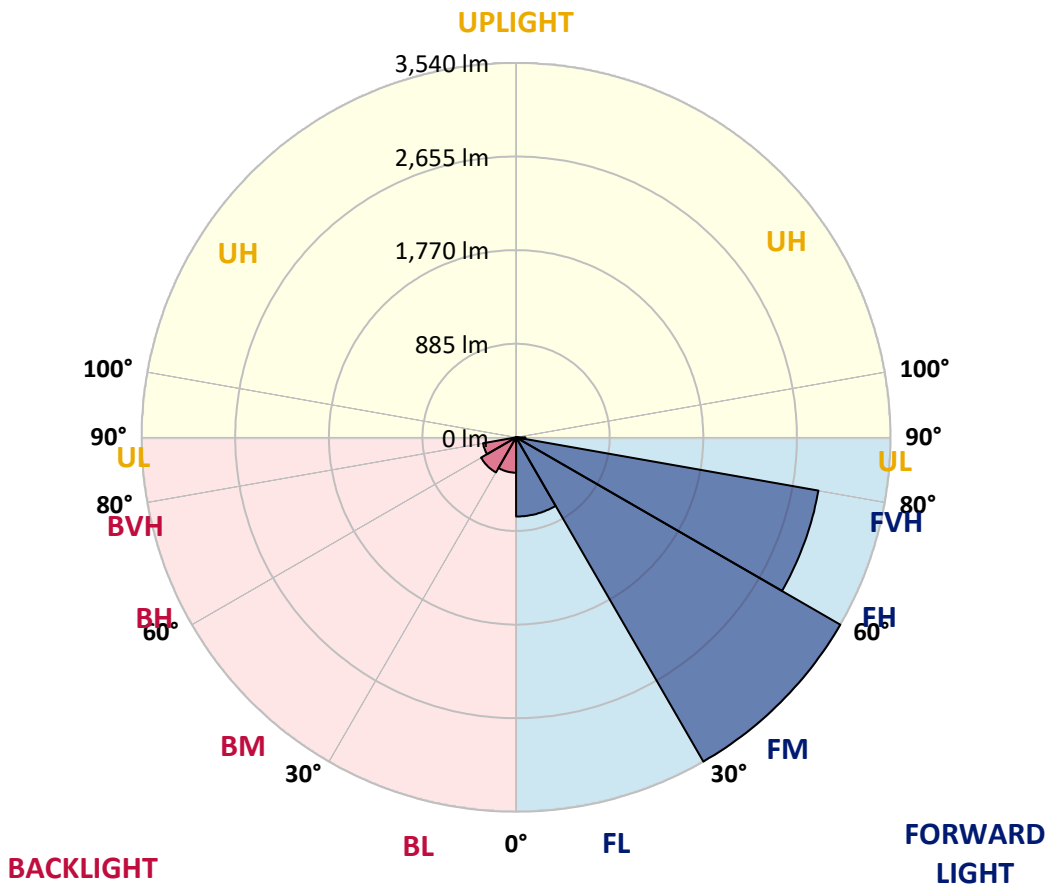


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 748.6  | 9.0       |                         |      |         |
| FM (30°-60°)   | 3540.3 | 42.6      |                         |      |         |
| FH (60°-80°)   | 2902.9 | 34.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 88.1   | 1.1       |                         |      | G1/100  |
| BL (0°-30°)    | 333.9  | 4.0       | B1/500                  |      |         |
| BM (30°-60°)   | 382.6  | 4.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 317.3  | 3.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 5.0    | 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°    | 2017.6 | 2017.6 | 2017.6 | 2017.6 | 2017.6 | 2017.6 | 2017.6 | 2017.6 | 2017.6 | 2017.6 | 2017.6 |
| 2.5°  | 1947.6 | 1953.6 | 1945.4 | 1965.7 | 1969.4 | 1992.0 | 2004.8 | 2013.8 | 2013.1 | 2024.3 | 2024.3 |
| 5°    | 1833.3 | 1839.3 | 1834.8 | 1856.6 | 1873.9 | 1909.2 | 1938.6 | 1972.4 | 1973.9 | 2008.5 | 2021.3 |
| 7.5°  | 1736.2 | 1737.0 | 1737.0 | 1764.1 | 1786.6 | 1830.3 | 1873.9 | 1925.8 | 1931.8 | 1985.2 | 2019.1 |
| 10°   | 1656.5 | 1658.7 | 1659.5 | 1690.3 | 1715.2 | 1767.8 | 1823.5 | 1885.9 | 1892.7 | 1964.9 | 2017.6 |
| 12.5° | 1601.6 | 1602.3 | 1605.3 | 1637.7 | 1664.8 | 1719.7 | 1776.1 | 1847.6 | 1856.6 | 1941.6 | 2010.8 |
| 15°   | 1575.2 | 1573.7 | 1575.2 | 1602.3 | 1629.4 | 1682.1 | 1740.0 | 1816.7 | 1826.5 | 1922.0 | 2011.6 |
| 17.5° | 1573.7 | 1571.5 | 1570.0 | 1590.3 | 1607.6 | 1654.2 | 1712.9 | 1796.4 | 1806.9 | 1913.0 | 2019.8 |
| 20°   | 1595.6 | 1594.0 | 1586.5 | 1595.6 | 1599.3 | 1637.7 | 1695.6 | 1780.6 | 1791.1 | 1911.5 | 2037.9 |
| 22.5° | 1652.7 | 1649.0 | 1637.7 | 1629.4 | 1609.1 | 1631.7 | 1683.6 | 1769.3 | 1781.4 | 1915.3 | 2061.2 |
| 25°   | 1737.7 | 1736.2 | 1721.9 | 1701.6 | 1649.7 | 1640.7 | 1684.3 | 1769.3 | 1780.6 | 1919.8 | 2086.0 |
| 27.5° | 1865.6 | 1856.6 | 1838.5 | 1803.2 | 1728.7 | 1676.0 | 1699.4 | 1773.8 | 1785.1 | 1925.8 | 2106.3 |
| 30°   | 1995.8 | 1995.0 | 1989.0 | 1952.9 | 1842.3 | 1743.7 | 1731.0 | 1785.9 | 1796.4 | 1931.1 | 2125.1 |
| 32.5° | 2130.4 | 2132.7 | 2147.7 | 2119.9 | 1998.8 | 1844.6 | 1788.1 | 1810.7 | 1818.2 | 1941.6 | 2141.7 |
| 35°   | 2258.3 | 2262.8 | 2302.7 | 2312.5 | 2189.1 | 1997.3 | 1881.4 | 1860.3 | 1861.1 | 1964.9 | 2163.5 |
| 37.5° | 2380.9 | 2396.0 | 2459.9 | 2507.3 | 2426.1 | 2182.3 | 2016.1 | 1944.6 | 1938.6 | 2011.6 | 2196.6 |
| 40°   | 2520.1 | 2548.7 | 2629.2 | 2709.7 | 2684.1 | 2426.8 | 2199.6 | 2074.0 | 2061.2 | 2097.3 | 2256.0 |
| 42.5° | 2674.3 | 2705.1 | 2812.0 | 2924.8 | 2936.8 | 2722.4 | 2429.1 | 2262.8 | 2241.0 | 2241.7 | 2367.4 |
| 45°   | 2839.8 | 2881.2 | 3005.3 | 3167.8 | 3240.8 | 3051.9 | 2711.9 | 2517.8 | 2496.0 | 2463.7 | 2546.4 |
| 47.5° | 3057.2 | 3093.3 | 3212.9 | 3400.2 | 3540.2 | 3405.5 | 3082.8 | 2845.8 | 2805.9 | 2758.6 | 2824.7 |
| 50°   | 3244.5 | 3276.1 | 3379.2 | 3613.9 | 3905.0 | 3861.4 | 3503.3 | 3255.8 | 3217.4 | 3136.9 | 3191.9 |
| 52.5° | 3285.9 | 3310.7 | 3405.5 | 3669.5 | 4184.1 | 4436.9 | 4018.6 | 3751.5 | 3724.5 | 3575.5 | 3596.6 |
| 55°   | 3100.1 | 3137.7 | 3222.7 | 3516.1 | 4257.1 | 4999.5 | 4687.4 | 4310.5 | 4254.1 | 4016.3 | 4053.9 |
| 57.5° | 2630.7 | 2697.6 | 2777.4 | 3158.8 | 4059.2 | 5298.9 | 5621.7 | 4902.5 | 4851.3 | 4440.6 | 4441.4 |
| 60°   | 1928.1 | 1982.2 | 2035.6 | 2384.7 | 3589.8 | 5278.6 | 6469.5 | 5567.5 | 5474.2 | 4787.4 | 4774.6 |
| 62.5° | 1402.2 | 1430.1 | 1429.3 | 1553.4 | 2465.2 | 4931.1 | 6914.8 | 6569.5 | 6352.1 | 5158.3 | 5085.3 |
| 65°   | 1102.8 | 1102.1 | 1134.4 | 1175.0 | 1376.6 | 3806.5 | 6969.7 | 8032.7 | 7798.0 | 5655.5 | 5503.6 |
| 67.5° | 858.3  | 874.9  | 907.2  | 1026.8 | 1034.4 | 1992.0 | 6486.8 | 8937.6 | 8933.1 | 6414.6 | 5993.3 |
| 70°   | 662.0  | 684.6  | 730.4  | 905.0  | 955.4  | 1114.9 | 4853.6 | 8651.0 | 8724.0 | 6753.8 | 5646.5 |
| 72.5° | 425.0  | 423.5  | 491.2  | 731.2  | 917.8  | 929.0  | 2684.1 | 6871.9 | 6954.7 | 6117.4 | 4565.5 |
| 75°   | 237.7  | 239.2  | 277.6  | 447.6  | 855.3  | 874.1  | 1329.2 | 4900.2 | 4965.7 | 4769.4 | 3507.8 |
| 77.5° | 93.3   | 96.3   | 130.1  | 235.5  | 564.2  | 780.8  | 789.9  | 3341.6 | 3351.3 | 2955.6 | 2151.5 |
| 80°   | 37.6   | 39.9   | 66.2   | 145.9  | 343.8  | 525.8  | 564.2  | 1968.7 | 1928.8 | 1144.2 | 625.9  |
| 82.5° | 11.3   | 12.0   | 26.3   | 82.7   | 179.8  | 373.9  | 380.6  | 755.3  | 713.1  | 246.0  | 159.5  |
| 85°   | 0.8    | 0.8    | 6.0    | 25.6   | 63.9   | 94.0   | 253.5  | 246.0  | 218.2  | 61.7   | 70.7   |
| 87.5° | 0.0    | 0.0    | 0.8    | 0.8    | 1.5    | 3.0    | 27.1   | 45.1   | 45.9   | 11.3   | 31.6   |
| 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°    | 2017.6 | 2017.6 | 2017.6 | 2017.6 | 2017.6 | 2017.6 | 2017.6 | 2017.6 | 2017.6 | 2017.6 | 2017.6 |
| 2.5°  | 2024.3 | 1997.3 | 1995.0 | 1973.9 | 1952.9 | 1926.5 | 1895.7 | 1873.1 | 1857.3 | 1829.5 | 1824.2 |
| 5°    | 2021.3 | 1985.2 | 1951.4 | 1891.2 | 1824.2 | 1752.0 | 1688.8 | 1630.2 | 1593.3 | 1568.5 | 1557.9 |
| 7.5°  | 2015.3 | 1969.4 | 1891.2 | 1777.6 | 1665.5 | 1539.1 | 1440.6 | 1350.3 | 1288.6 | 1252.5 | 1236.7 |
| 10°   | 2010.8 | 1949.1 | 1822.0 | 1649.7 | 1475.9 | 1301.4 | 1151.7 | 1017.8 | 943.3  | 884.7  | 874.9  |
| 12.5° | 2001.8 | 1919.8 | 1733.2 | 1500.0 | 1275.8 | 1044.1 | 853.1  | 689.1  | 575.5  | 524.3  | 506.3  |
| 15°   | 1992.7 | 1888.9 | 1644.4 | 1342.0 | 1057.7 | 771.8  | 540.1  | 382.1  | 303.9  | 279.8  | 278.3  |
| 17.5° | 1991.2 | 1861.1 | 1548.2 | 1192.3 | 829.0  | 505.5  | 307.7  | 247.5  | 230.9  | 224.9  | 224.9  |
| 20°   | 1995.8 | 1837.8 | 1453.4 | 1020.1 | 604.1  | 307.7  | 229.4  | 214.4  | 204.6  | 199.3  | 199.3  |
| 22.5° | 2000.3 | 1813.7 | 1362.3 | 846.3  | 401.0  | 224.9  | 202.4  | 189.6  | 178.3  | 172.3  | 169.3  |
| 25°   | 2003.3 | 1787.4 | 1261.5 | 671.8  | 261.8  | 195.6  | 177.5  | 161.0  | 147.4  | 139.9  | 139.9  |
| 27.5° | 2002.5 | 1755.8 | 1160.0 | 501.0  | 203.1  | 173.8  | 152.0  | 134.7  | 121.1  | 112.8  | 113.6  |
| 30°   | 1996.5 | 1721.2 | 1054.7 | 349.8  | 177.5  | 152.0  | 130.1  | 112.1  | 98.5   | 91.8   | 91.0   |
| 32.5° | 1992.0 | 1684.3 | 932.8  | 246.0  | 159.5  | 133.2  | 110.6  | 93.3   | 82.0   | 76.7   | 76.0   |
| 35°   | 1986.7 | 1648.2 | 817.0  | 187.3  | 143.7  | 115.1  | 93.3   | 79.0   | 70.0   | 65.4   | 65.4   |
| 37.5° | 1988.2 | 1610.6 | 691.3  | 161.0  | 127.9  | 100.1  | 79.7   | 67.7   | 60.2   | 55.7   | 54.9   |
| 40°   | 2011.6 | 1588.0 | 568.0  | 145.9  | 113.6  | 86.5   | 69.2   | 58.7   | 51.2   | 46.6   | 45.9   |
| 42.5° | 2069.5 | 1588.8 | 449.9  | 134.7  | 100.8  | 73.7   | 60.2   | 50.4   | 43.6   | 38.4   | 37.6   |
| 45°   | 2185.3 | 1620.4 | 345.3  | 122.6  | 87.3   | 63.9   | 51.9   | 42.9   | 36.1   | 31.6   | 30.8   |
| 47.5° | 2374.9 | 1714.4 | 261.8  | 112.1  | 76.0   | 55.7   | 44.4   | 36.1   | 30.1   | 26.3   | 25.6   |
| 50°   | 2676.6 | 1884.4 | 206.1  | 99.3   | 63.9   | 48.1   | 37.6   | 30.1   | 24.8   | 21.1   | 20.3   |
| 52.5° | 3039.1 | 2139.4 | 176.8  | 88.0   | 54.9   | 42.1   | 32.3   | 24.8   | 20.3   | 17.3   | 16.5   |
| 55°   | 3455.9 | 2444.1 | 163.2  | 76.7   | 46.6   | 36.1   | 26.3   | 20.3   | 16.5   | 14.3   | 12.8   |
| 57.5° | 3838.0 | 2718.7 | 162.5  | 65.4   | 39.9   | 30.8   | 21.8   | 17.3   | 14.3   | 11.3   | 10.5   |
| 60°   | 4210.4 | 2948.1 | 152.7  | 54.2   | 34.6   | 25.6   | 18.8   | 14.3   | 12.0   | 9.8    | 9.0    |
| 62.5° | 4548.2 | 3134.7 | 127.9  | 43.6   | 29.3   | 21.1   | 15.8   | 12.8   | 10.5   | 8.3    | 8.3    |
| 65°   | 4972.5 | 3372.4 | 97.8   | 35.4   | 24.1   | 17.3   | 13.5   | 11.3   | 9.8    | 7.5    | 7.5    |
| 67.5° | 5411.0 | 3498.0 | 70.0   | 29.3   | 19.6   | 15.0   | 12.0   | 10.5   | 8.3    | 6.8    | 6.8    |
| 70°   | 4901.0 | 2955.6 | 50.4   | 24.1   | 16.5   | 12.8   | 10.5   | 9.8    | 8.3    | 6.8    | 6.0    |
| 72.5° | 3827.5 | 2131.2 | 37.6   | 18.8   | 14.3   | 12.0   | 9.8    | 9.0    | 7.5    | 6.0    | 6.0    |
| 75°   | 2838.3 | 1242.7 | 28.6   | 15.0   | 11.3   | 9.8    | 9.8    | 9.0    | 7.5    | 6.0    | 5.3    |
| 77.5° | 1542.9 | 433.3  | 21.8   | 12.0   | 9.0    | 7.5    | 8.3    | 8.3    | 6.8    | 5.3    | 4.5    |
| 80°   | 408.5  | 118.9  | 15.0   | 9.0    | 7.5    | 6.0    | 6.0    | 7.5    | 6.0    | 4.5    | 4.5    |
| 82.5° | 118.9  | 34.6   | 10.5   | 7.5    | 6.0    | 5.3    | 5.3    | 5.3    | 4.5    | 3.8    | 3.0    |
| 85°   | 57.9   | 12.8   | 7.5    | 6.0    | 5.3    | 4.5    | 3.8    | 3.8    | 3.0    | 2.3    | 2.3    |
| 87.5° | 25.6   | 5.3    | 6.0    | 5.3    | 5.3    | 3.8    | 3.0    | 2.3    | 2.3    | 1.5    | 0.8    |
| 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)