

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: P639536

Luminaire Tested: GWS-SA5C-722-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639536  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-722-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

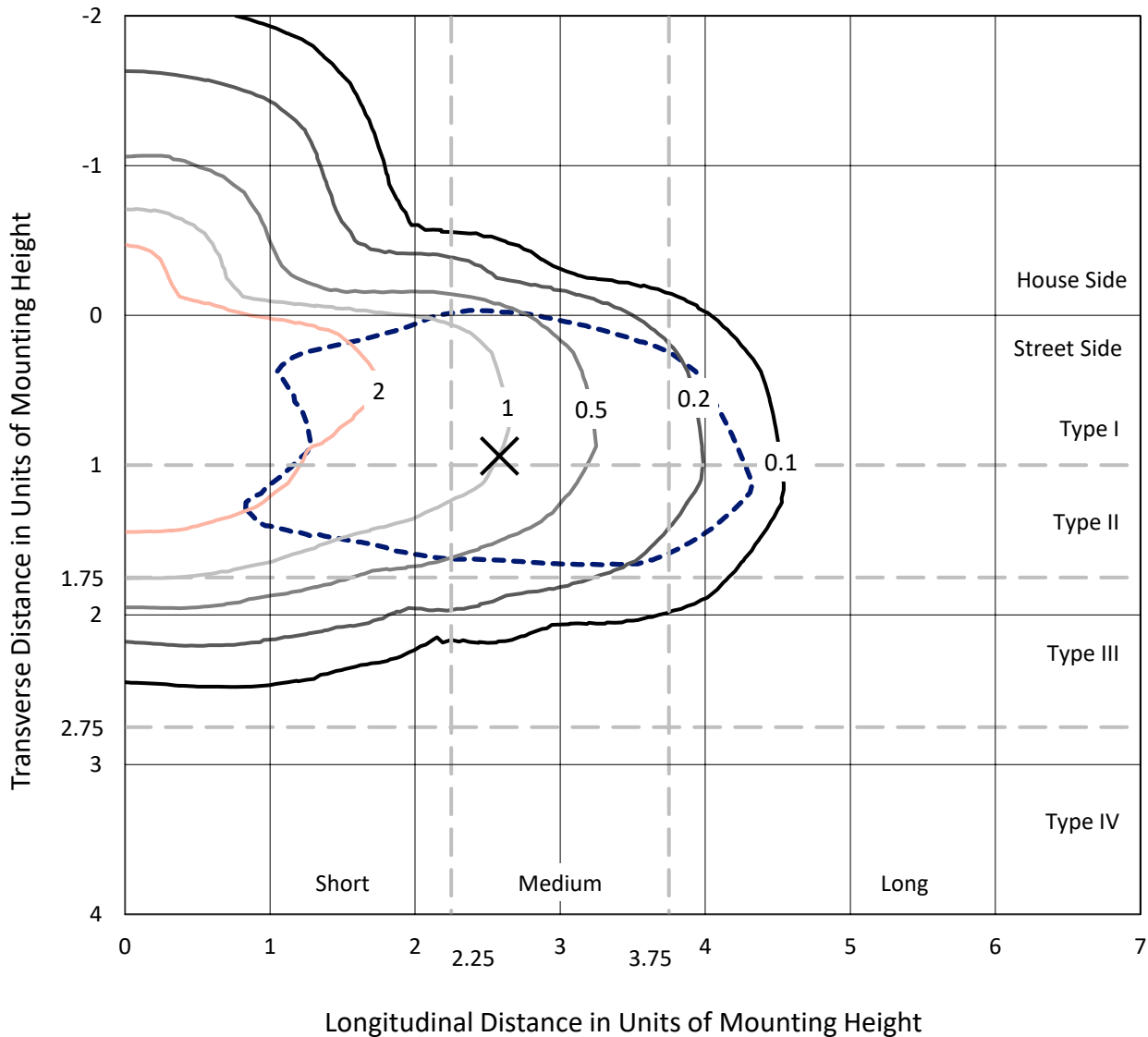
Lumens per Lamp: N/A  
Luminaire Lumens: 17402.5 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

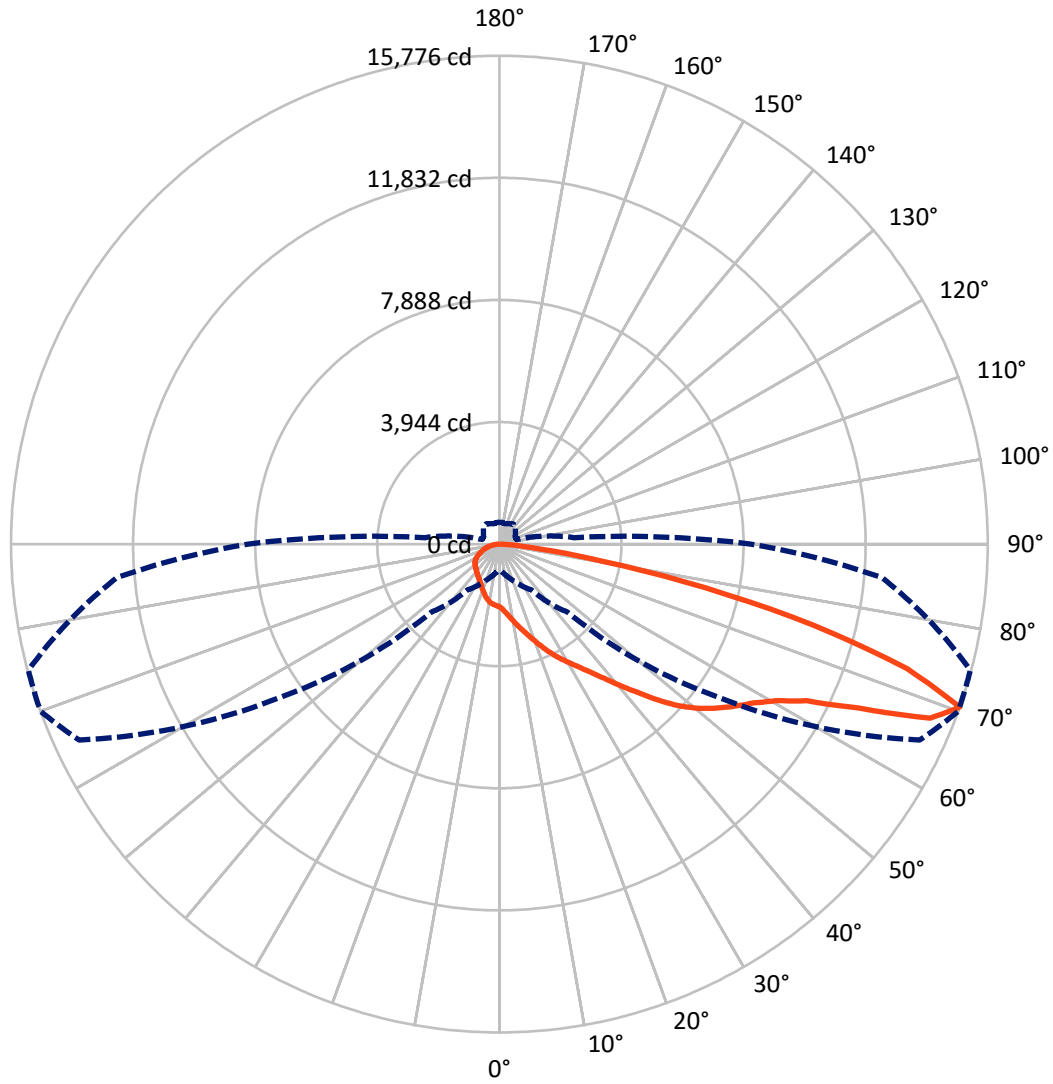
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3118.6   | 0.0    | 3118.6  |
|                    | % Fixture | 17.9     | 0.0    | 17.9    |
| <b>Street Side</b> | Lumens    | 14283.9  | 0.0    | 14283.9 |
|                    | % Fixture | 82.1     | 0.0    | 82.1    |
| <b>Total</b>       | Lumens    | 17402.5  | 0.0    | 17402.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 206.3   | 1.2       |
| 10°-20°   | 671.0   | 3.9       |
| 20°-30°   | 1188.7  | 6.8       |
| 30°-40°   | 1789.1  | 10.3      |
| 40°-50°   | 2706.6  | 15.6      |
| 50°-60°   | 3877.4  | 22.3      |
| 60°-70°   | 4286.0  | 24.6      |
| 70°-80°   | 2418.7  | 13.9      |
| 80°-90°   | 258.7   | 1.5       |
| 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°    | 17402.5 | 100.0     |
| 0°-180°   | 17402.5 | 100.0     |

**Coefficient of Utilization**



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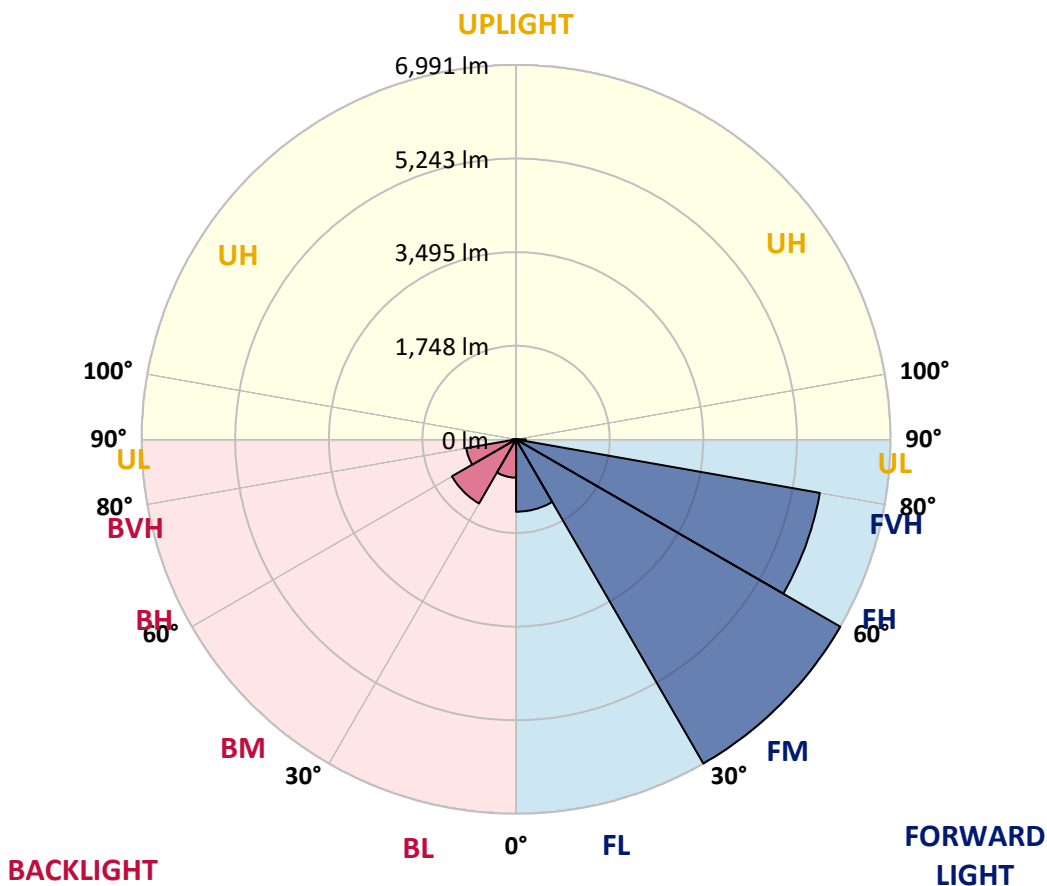
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1351.0 | 7.8       |                         |      |         |
| FM (30°-60°)   | 6990.6 | 40.2      |                         |      |         |
| FH (60°-80°)   | 5759.5 | 33.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 182.9  | 1.1       |                         |      | G2/225  |
| BL (0°-30°)    | 715.0  | 4.1       | B2/1000                 |      |         |
| BM (30°-60°)   | 1382.5 | 7.9       | B2/2500                 |      |         |
| BH (60°-80°)   | 945.2  | 5.4       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 75.8   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 70°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 2029.5 | 2029.5 | 2029.5 | 2029.5 | 2029.5 | 2029.5 | 2029.5  | 2029.5  | 2029.5  | 2029.5  | 2029.5  |
| 2.5°  | 2248.3 | 2244.5 | 2247.0 | 2244.5 | 2230.7 | 2196.7 | 2169.1  | 2133.9  | 2110.0  | 2096.1  | 2063.4  |
| 5°    | 2512.3 | 2508.6 | 2499.8 | 2487.2 | 2462.0 | 2415.5 | 2346.4  | 2269.7  | 2223.1  | 2187.9  | 2118.8  |
| 7.5°  | 2702.2 | 2702.2 | 2701.0 | 2685.9 | 2668.3 | 2619.2 | 2537.5  | 2436.9  | 2369.0  | 2308.6  | 2195.5  |
| 10°   | 2799.0 | 2805.3 | 2814.1 | 2835.5 | 2831.7 | 2805.3 | 2728.6  | 2620.5  | 2535.0  | 2464.6  | 2296.1  |
| 12.5° | 2851.9 | 2855.6 | 2870.7 | 2914.7 | 2960.0 | 2966.3 | 2921.0  | 2807.8  | 2714.8  | 2620.5  | 2408.0  |
| 15°   | 2919.8 | 2921.0 | 2941.1 | 2993.9 | 3060.6 | 3127.2 | 3115.9  | 3002.7  | 2907.2  | 2802.8  | 2532.5  |
| 17.5° | 2972.6 | 2981.4 | 3017.8 | 3079.4 | 3162.4 | 3254.2 | 3309.6  | 3239.1  | 3120.9  | 3001.5  | 2668.3  |
| 20°   | 2991.4 | 2997.7 | 3045.5 | 3139.8 | 3253.0 | 3382.5 | 3505.7  | 3486.9  | 3367.4  | 3226.6  | 2821.7  |
| 22.5° | 3059.3 | 3059.3 | 3094.5 | 3173.8 | 3307.0 | 3495.7 | 3695.6  | 3744.6  | 3639.0  | 3474.3  | 2986.4  |
| 25°   | 3209.0 | 3203.9 | 3220.3 | 3253.0 | 3353.6 | 3586.2 | 3882.9  | 4030.1  | 3911.9  | 3727.0  | 3151.1  |
| 27.5° | 3413.9 | 3411.4 | 3410.1 | 3415.2 | 3449.1 | 3665.4 | 4041.4  | 4296.6  | 4178.4  | 3969.7  | 3298.2  |
| 30°   | 3636.5 | 3628.9 | 3645.3 | 3630.2 | 3622.7 | 3759.7 | 4175.9  | 4535.5  | 4443.8  | 4209.9  | 3420.2  |
| 32.5° | 3939.5 | 3925.7 | 3921.9 | 3872.9 | 3842.7 | 3906.8 | 4284.1  | 4807.2  | 4734.2  | 4468.9  | 3557.3  |
| 35°   | 4339.4 | 4326.8 | 4262.7 | 4184.7 | 4095.4 | 4125.6 | 4418.6  | 5072.5  | 5077.5  | 4793.3  | 3737.1  |
| 37.5° | 4743.0 | 4745.5 | 4695.2 | 4511.7 | 4419.9 | 4402.3 | 4623.6  | 5395.6  | 5503.8  | 5180.6  | 3969.7  |
| 40°   | 5078.8 | 5093.8 | 5093.8 | 4900.2 | 4763.1 | 4746.8 | 4911.5  | 5779.1  | 5994.2  | 5655.9  | 4263.9  |
| 42.5° | 5334.0 | 5347.8 | 5391.9 | 5252.3 | 5107.7 | 5164.3 | 5261.1  | 6163.9  | 6550.0  | 6243.1  | 4636.1  |
| 45°   | 5614.4 | 5625.7 | 5649.6 | 5569.2 | 5484.9 | 5635.8 | 5657.2  | 6624.1  | 7186.2  | 6902.0  | 5068.7  |
| 47.5° | 5986.6 | 5976.6 | 5979.1 | 5920.0 | 5854.6 | 6098.5 | 6093.5  | 7011.4  | 7801.1  | 7623.8  | 5537.7  |
| 50°   | 6449.4 | 6468.2 | 6450.6 | 6333.7 | 6257.0 | 6479.5 | 6508.5  | 7440.2  | 8341.8  | 8338.0  | 6010.5  |
| 52.5° | 6894.5 | 6902.0 | 6995.1 | 7000.1 | 6842.9 | 6796.4 | 6871.9  | 7872.8  | 8798.2  | 8991.9  | 6464.4  |
| 55°   | 6917.1 | 6946.0 | 7225.2 | 7426.4 | 7680.4 | 7306.9 | 7239.0  | 8285.2  | 9239.6  | 9631.9  | 6936.0  |
| 57.5° | 6435.5 | 6482.1 | 6956.1 | 7389.9 | 8096.6 | 8183.4 | 7867.7  | 8818.4  | 9681.0  | 10261.9 | 7481.7  |
| 60°   | 5406.9 | 5503.8 | 6147.6 | 6811.5 | 7909.2 | 8813.3 | 9154.1  | 9542.6  | 10260.6 | 10905.7 | 8144.4  |
| 62.5° | 3452.9 | 3490.6 | 4393.5 | 5505.0 | 7065.5 | 8751.7 | 10554.9 | 10818.9 | 11143.3 | 11744.4 | 9165.4  |
| 65°   | 1729.0 | 1849.7 | 2379.1 | 3285.7 | 5095.1 | 7711.8 | 11262.8 | 13156.5 | 12759.1 | 13180.4 | 10820.2 |
| 67.5° | 1173.2 | 1212.2 | 1480.0 | 1974.2 | 2987.7 | 5463.5 | 10824.0 | 15125.6 | 15008.7 | 15077.8 | 12584.4 |
| 70°   | 865.1  | 890.3  | 1101.5 | 1398.3 | 1806.9 | 3102.1 | 8617.2  | 14977.2 | 15775.7 | 15750.6 | 12399.5 |
| 72.5° | 631.2  | 643.8  | 803.5  | 1067.6 | 1339.2 | 1604.5 | 5262.3  | 12099.0 | 13771.4 | 14496.9 | 10844.1 |
| 75°   | 459.0  | 474.1  | 558.3  | 798.5  | 1041.2 | 1000.9 | 2597.9  | 8739.1  | 10502.1 | 11897.8 | 8834.7  |
| 77.5° | 342.0  | 360.9  | 399.9  | 500.5  | 729.3  | 716.7  | 1122.9  | 5674.8  | 6792.6  | 7770.9  | 5366.7  |
| 80°   | 246.5  | 250.2  | 272.9  | 320.6  | 462.7  | 420.0  | 534.4   | 2958.7  | 3392.5  | 3717.0  | 2103.7  |
| 82.5° | 149.6  | 153.4  | 182.3  | 197.4  | 286.7  | 264.1  | 277.9   | 958.2   | 1373.1  | 1457.4  | 785.9   |
| 85°   | 44.0   | 46.5   | 83.0   | 90.5   | 119.5  | 113.2  | 111.9   | 389.8   | 465.2   | 594.8   | 309.3   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 7.5    | 13.8    | 69.2    | 104.4   | 144.6   | 75.4    |
| 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°    | 2029.5 | 2029.5 | 2029.5 | 2029.5 | 2029.5 | 2029.5 | 2029.5 | 2029.5 | 2029.5 | 2029.5 | 2029.5 |
| 2.5°  | 2050.9 | 2021.9 | 2006.9 | 1980.5 | 1961.6 | 1942.7 | 1923.9 | 1906.3 | 1898.7 | 1887.4 | 1889.9 |
| 5°    | 2087.3 | 2042.1 | 1996.8 | 1945.2 | 1901.2 | 1864.8 | 1832.1 | 1803.2 | 1790.6 | 1779.3 | 1784.3 |
| 7.5°  | 2142.7 | 2074.8 | 1988.0 | 1893.7 | 1824.5 | 1774.2 | 1740.3 | 1720.2 | 1713.9 | 1705.1 | 1705.1 |
| 10°   | 2213.1 | 2111.2 | 1959.1 | 1824.5 | 1741.5 | 1701.3 | 1686.2 | 1685.0 | 1691.2 | 1692.5 | 1690.0 |
| 12.5° | 2291.0 | 2146.4 | 1916.3 | 1742.8 | 1672.4 | 1659.8 | 1671.1 | 1692.5 | 1713.9 | 1725.2 | 1722.7 |
| 15°   | 2371.5 | 2169.1 | 1843.4 | 1664.8 | 1622.1 | 1638.4 | 1674.9 | 1717.6 | 1759.1 | 1780.5 | 1779.3 |
| 17.5° | 2447.0 | 2174.1 | 1749.1 | 1589.4 | 1578.1 | 1619.6 | 1682.4 | 1749.1 | 1805.7 | 1835.8 | 1837.1 |
| 20°   | 2531.2 | 2165.3 | 1652.3 | 1521.5 | 1534.1 | 1602.0 | 1685.0 | 1765.4 | 1832.1 | 1862.3 | 1869.8 |
| 22.5° | 2607.9 | 2135.1 | 1558.0 | 1457.4 | 1496.3 | 1580.6 | 1664.8 | 1740.3 | 1799.4 | 1828.3 | 1838.4 |
| 25°   | 2677.1 | 2077.3 | 1454.8 | 1403.3 | 1467.4 | 1550.4 | 1614.5 | 1667.4 | 1708.8 | 1726.5 | 1740.3 |
| 27.5° | 2714.8 | 1990.5 | 1376.9 | 1360.5 | 1439.8 | 1507.7 | 1542.9 | 1559.2 | 1573.0 | 1568.0 | 1578.1 |
| 30°   | 2722.3 | 1882.4 | 1309.0 | 1326.6 | 1398.3 | 1448.6 | 1456.1 | 1439.8 | 1415.9 | 1376.9 | 1385.7 |
| 32.5° | 2714.8 | 1757.9 | 1252.4 | 1290.1 | 1351.7 | 1381.9 | 1371.9 | 1329.1 | 1271.3 | 1210.9 | 1214.7 |
| 35°   | 2717.3 | 1632.1 | 1205.9 | 1249.9 | 1297.7 | 1314.0 | 1288.9 | 1229.8 | 1168.2 | 1112.8 | 1110.3 |
| 37.5° | 2745.0 | 1526.5 | 1166.9 | 1210.9 | 1244.9 | 1247.4 | 1219.7 | 1158.1 | 1126.7 | 1085.2 | 1080.1 |
| 40°   | 2821.7 | 1448.6 | 1131.7 | 1171.9 | 1193.3 | 1192.0 | 1160.6 | 1116.6 | 1138.0 | 1124.1 | 1120.4 |
| 42.5° | 2947.4 | 1400.8 | 1102.8 | 1130.4 | 1145.5 | 1148.0 | 1122.9 | 1095.2 | 1141.7 | 1124.1 | 1117.9 |
| 45°   | 3149.9 | 1398.3 | 1082.6 | 1088.9 | 1112.8 | 1130.4 | 1112.8 | 1081.4 | 1099.0 | 1013.5 | 997.1  |
| 47.5° | 3390.0 | 1441.0 | 1067.6 | 1052.5 | 1094.0 | 1125.4 | 1097.7 | 1047.4 | 1011.0 | 933.0  | 921.7  |
| 50°   | 3679.2 | 1527.8 | 1053.7 | 1013.5 | 1066.3 | 1106.5 | 1078.9 | 1009.7 | 954.4  | 912.9  | 906.6  |
| 52.5° | 4022.5 | 1642.2 | 1036.1 | 969.5  | 1024.8 | 1096.5 | 1078.9 | 1005.9 | 933.0  | 895.3  | 889.0  |
| 55°   | 4382.1 | 1774.2 | 1016.0 | 916.7  | 978.3  | 1099.0 | 1087.7 | 979.5  | 916.7  | 896.5  | 891.5  |
| 57.5° | 4828.5 | 1932.7 | 979.5  | 855.1  | 936.8  | 1076.4 | 1052.5 | 964.4  | 905.3  | 889.0  | 884.0  |
| 60°   | 5408.2 | 2167.8 | 910.4  | 792.2  | 889.0  | 1036.1 | 1021.0 | 939.3  | 875.2  | 861.3  | 857.6  |
| 62.5° | 6326.1 | 2566.4 | 826.1  | 731.8  | 832.4  | 951.9  | 974.5  | 891.5  | 837.4  | 836.2  | 834.9  |
| 65°   | 7822.5 | 3045.5 | 726.8  | 677.8  | 773.3  | 882.7  | 912.9  | 842.5  | 798.5  | 812.3  | 811.0  |
| 67.5° | 8871.2 | 3087.0 | 645.1  | 621.2  | 704.2  | 807.3  | 851.3  | 792.2  | 744.4  | 770.8  | 769.5  |
| 70°   | 8125.5 | 2408.0 | 574.6  | 562.1  | 630.0  | 725.5  | 784.6  | 729.3  | 681.5  | 706.7  | 701.6  |
| 72.5° | 6853.0 | 1845.9 | 508.0  | 500.5  | 554.5  | 640.0  | 699.1  | 666.4  | 616.1  | 616.1  | 604.8  |
| 75°   | 5507.5 | 1522.7 | 437.6  | 433.8  | 470.3  | 553.3  | 619.9  | 564.6  | 518.1  | 515.5  | 508.0  |
| 77.5° | 3158.7 | 998.4  | 367.2  | 364.7  | 376.0  | 462.7  | 481.6  | 470.3  | 435.1  | 418.7  | 413.7  |
| 80°   | 1258.7 | 519.3  | 289.2  | 272.9  | 284.2  | 339.5  | 379.7  | 360.9  | 330.7  | 310.6  | 299.3  |
| 82.5° | 487.9  | 260.3  | 203.7  | 178.6  | 194.9  | 245.2  | 275.4  | 269.1  | 249.0  | 203.7  | 191.1  |
| 85°   | 198.7  | 127.0  | 122.0  | 103.1  | 113.2  | 132.0  | 158.4  | 137.1  | 113.2  | 80.5   | 76.7   |
| 87.5° | 52.8   | 46.5   | 45.3   | 27.7   | 21.4   | 6.3    | 1.3    | 0.0    | 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)