

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: P640856

Luminaire Tested: GWS-SA5E-760-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640856  
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-SA5E-760-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

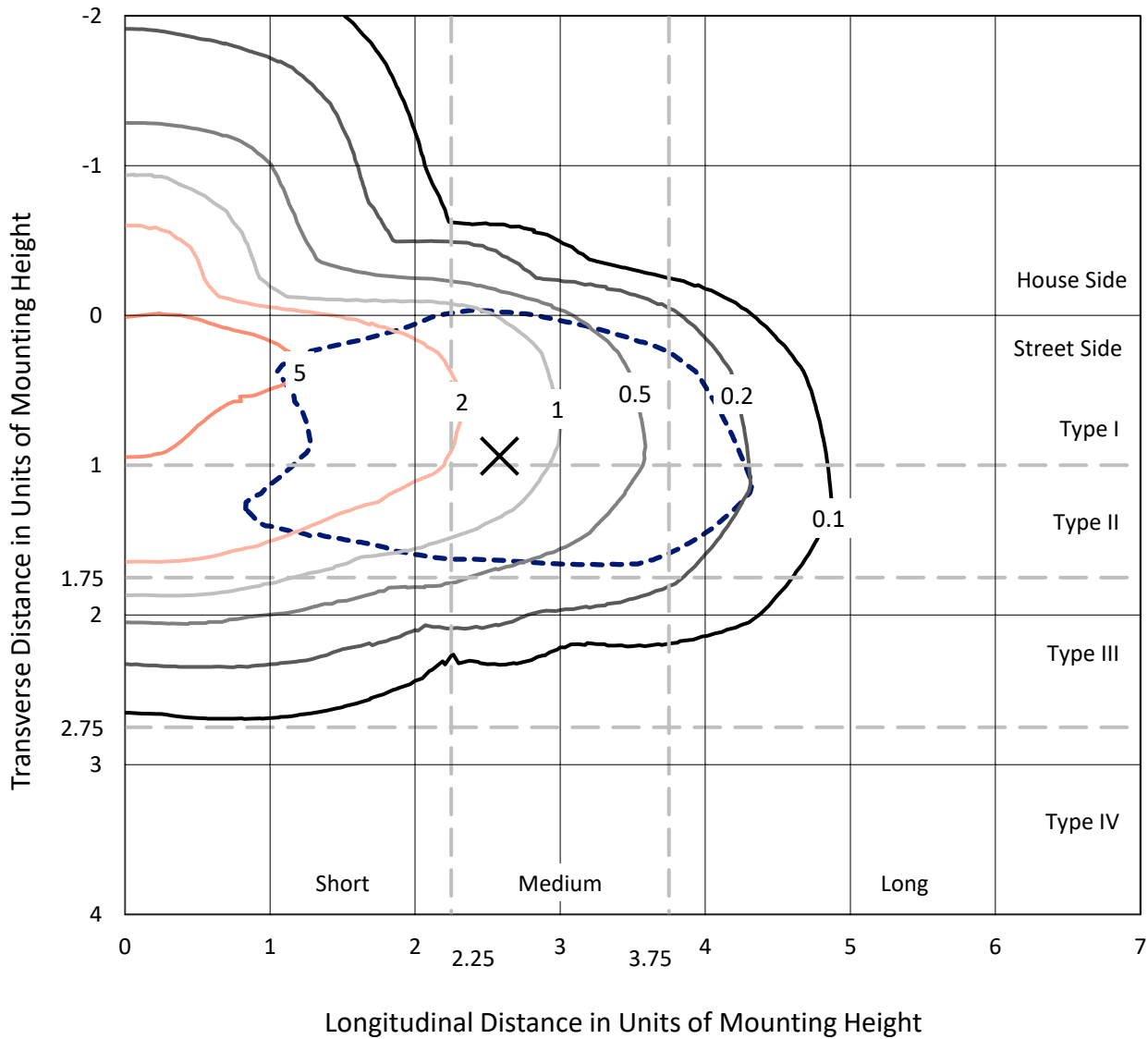
Lumens per Lamp: N/A  
Luminaire Lumens: 37577.3 lumens  
Efficiency: N/A  
Efficacy: 139.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

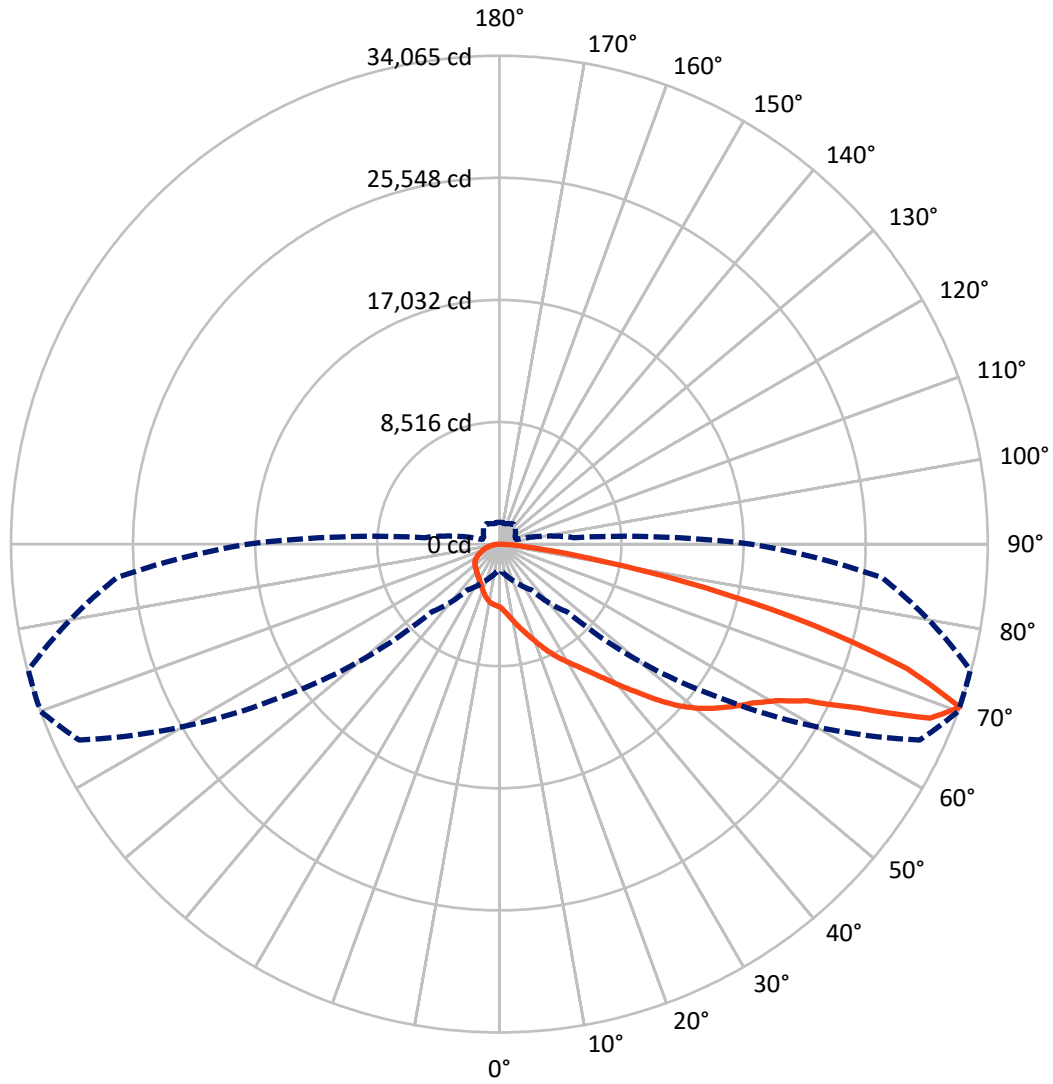
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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    | 6733.9   | 0.0    | 6733.9  |
|                    | % Fixture | 17.9     | 0.0    | 17.9    |
| <b>Street Side</b> | Lumens    | 30843.4  | 0.0    | 30843.4 |
|                    | % Fixture | 82.1     | 0.0    | 82.1    |
| <b>Total</b>       | Lumens    | 37577.3  | 0.0    | 37577.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 445.4   | 1.2       |
| 10°-20°   | 1448.9  | 3.9       |
| 20°-30°   | 2566.8  | 6.8       |
| 30°-40°   | 3863.1  | 10.3      |
| 40°-50°   | 5844.4  | 15.6      |
| 50°-60°   | 8372.4  | 22.3      |
| 60°-70°   | 9254.8  | 24.6      |
| 70°-80°   | 5222.7  | 13.9      |
| 80°-90°   | 558.7   | 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°    | 37577.3 | 100.0     |
| 0°-180°   | 37577.3 | 100.0     |

**Coefficient of Utilization**



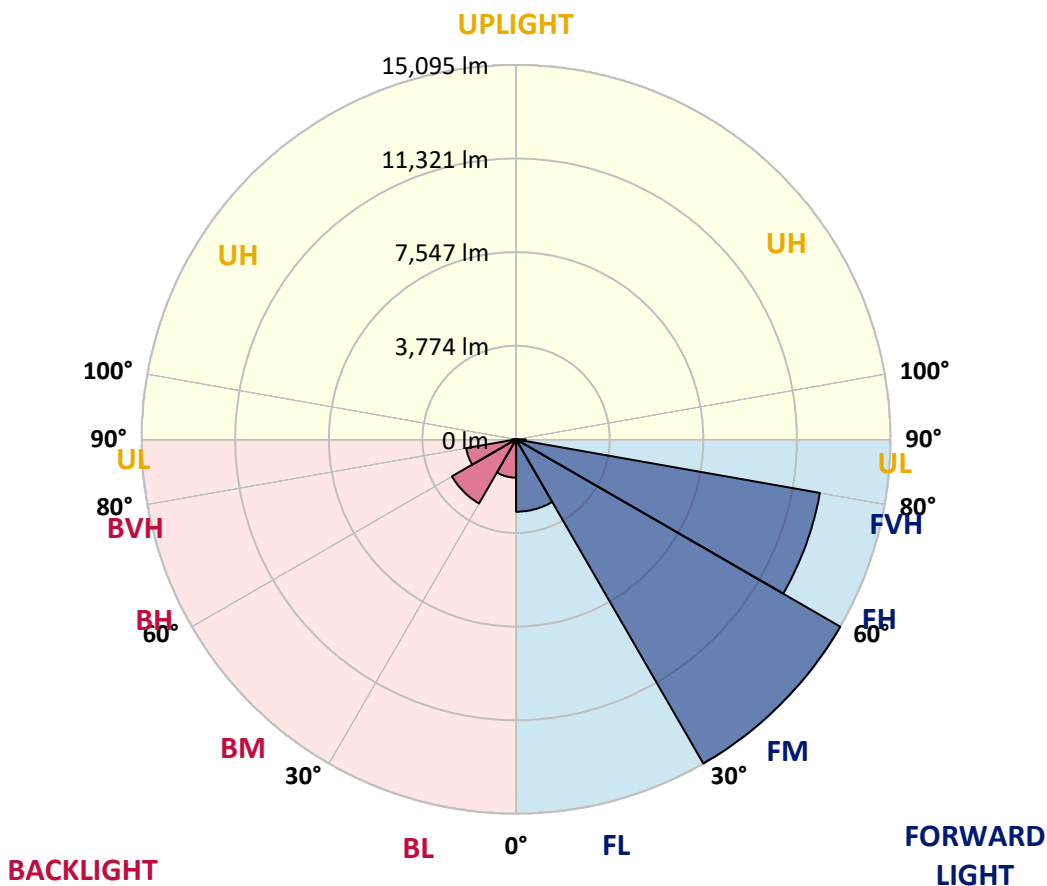
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2917.1  | 7.8       |                         |      |         |
| FM (30°-60°)   | 15094.8 | 40.2      |                         |      |         |
| FH (60°-80°)   | 12436.5 | 33.1      |                         |      | G5      |
| FVH (80°-90°)  | 394.9   | 1.1       |                         |      | G3/500  |
| BL (0°-30°)    | 1544.0  | 4.1       | B3/2500                 |      |         |
| BM (30°-60°)   | 2985.2  | 7.9       | B3/5000                 |      |         |
| BH (60°-80°)   | 2041.0  | 5.4       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 163.7   | 0.4       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 70°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4382.3  | 4382.3  | 4382.3  | 4382.3  | 4382.3  | 4382.3  | 4382.3  | 4382.3  | 4382.3  | 4382.3  | 4382.3  |
| 2.5°  | 4854.7  | 4846.6  | 4852.0  | 4846.6  | 4816.7  | 4743.4  | 4683.7  | 4607.7  | 4556.1  | 4526.2  | 4455.6  |
| 5°    | 5424.9  | 5416.8  | 5397.8  | 5370.6  | 5316.3  | 5215.8  | 5066.5  | 4900.9  | 4800.4  | 4724.4  | 4575.1  |
| 7.5°  | 5834.9  | 5834.9  | 5832.2  | 5799.6  | 5761.6  | 5655.7  | 5479.2  | 5262.0  | 5115.4  | 4985.1  | 4740.7  |
| 10°   | 6044.0  | 6057.6  | 6076.6  | 6122.7  | 6114.6  | 6057.6  | 5891.9  | 5658.4  | 5473.8  | 5321.7  | 4957.9  |
| 12.5° | 6158.0  | 6166.2  | 6198.7  | 6293.8  | 6391.5  | 6405.1  | 6307.3  | 6063.0  | 5862.1  | 5658.4  | 5199.6  |
| 15°   | 6304.6  | 6307.3  | 6350.8  | 6464.8  | 6608.7  | 6752.6  | 6728.2  | 6483.8  | 6277.5  | 6052.1  | 5468.4  |
| 17.5° | 6418.7  | 6437.7  | 6516.4  | 6649.5  | 6828.7  | 7026.9  | 7146.3  | 6994.3  | 6739.1  | 6481.1  | 5761.6  |
| 20°   | 6459.4  | 6473.0  | 6576.2  | 6779.8  | 7024.2  | 7303.8  | 7569.9  | 7529.2  | 7271.2  | 6967.1  | 6092.9  |
| 22.5° | 6606.0  | 6606.0  | 6682.0  | 6853.1  | 7140.9  | 7548.2  | 7979.9  | 8085.8  | 7857.7  | 7502.0  | 6448.5  |
| 25°   | 6929.1  | 6918.3  | 6953.6  | 7024.2  | 7241.4  | 7743.7  | 8384.5  | 8702.1  | 8446.9  | 8047.8  | 6804.2  |
| 27.5° | 7371.7  | 7366.3  | 7363.6  | 7374.4  | 7447.7  | 7914.7  | 8726.6  | 9277.8  | 9022.5  | 8571.8  | 7121.9  |
| 30°   | 7852.3  | 7836.0  | 7871.3  | 7838.7  | 7822.4  | 8118.4  | 9017.1  | 9793.6  | 9595.4  | 9090.4  | 7385.3  |
| 32.5° | 8506.6  | 8476.8  | 8468.6  | 8362.7  | 8297.6  | 8436.0  | 9250.6  | 10380.1 | 10222.6 | 9649.7  | 7681.2  |
| 35°   | 9370.1  | 9342.9  | 9204.4  | 9036.1  | 8843.3  | 8908.5  | 9541.1  | 10953.0 | 10963.9 | 10350.2 | 8069.5  |
| 37.5° | 10241.6 | 10247.1 | 10138.5 | 9742.0  | 9543.8  | 9505.8  | 9983.7  | 11650.8 | 11884.3 | 11186.5 | 8571.8  |
| 40°   | 10966.6 | 10999.2 | 10999.2 | 10581.0 | 10285.1 | 10249.8 | 10605.5 | 12478.9 | 12943.2 | 12212.9 | 9207.2  |
| 42.5° | 11517.8 | 11547.6 | 11642.7 | 11341.3 | 11029.0 | 11151.2 | 11360.3 | 13309.8 | 14143.3 | 13480.8 | 10010.8 |
| 45°   | 12123.3 | 12147.7 | 12199.3 | 12025.5 | 11843.6 | 12169.4 | 12215.6 | 14303.5 | 15517.2 | 14903.6 | 10944.9 |
| 47.5° | 12926.9 | 12905.2 | 12910.7 | 12783.0 | 12641.9 | 13168.6 | 13157.7 | 15139.8 | 16844.9 | 16462.1 | 11957.6 |
| 50°   | 13926.1 | 13966.9 | 13928.8 | 13676.3 | 13510.7 | 13991.3 | 14053.7 | 16065.7 | 18012.5 | 18004.3 | 12978.5 |
| 52.5° | 14887.3 | 14903.6 | 15104.5 | 15115.4 | 14776.0 | 14675.5 | 14838.4 | 16999.7 | 18998.1 | 19416.2 | 13958.7 |
| 55°   | 14936.2 | 14998.6 | 15601.4 | 16035.8 | 16584.3 | 15777.9 | 15631.3 | 17890.3 | 19951.1 | 20798.2 | 14976.9 |
| 57.5° | 13896.3 | 13996.7 | 15020.3 | 15957.1 | 17483.0 | 17670.4 | 16988.8 | 19041.5 | 20904.1 | 22158.5 | 16155.3 |
| 60°   | 11675.2 | 11884.3 | 13274.5 | 14708.1 | 17078.4 | 19030.7 | 19766.5 | 20605.5 | 22155.8 | 23548.7 | 17586.2 |
| 62.5° | 7455.9  | 7537.3  | 9486.8  | 11887.0 | 15256.6 | 18897.6 | 22791.2 | 23361.4 | 24061.9 | 25359.7 | 19790.9 |
| 65°   | 3733.4  | 3994.0  | 5137.1  | 7094.8  | 11001.9 | 16652.2 | 24319.8 | 28408.9 | 27550.9 | 28460.5 | 23364.1 |
| 67.5° | 2533.3  | 2617.4  | 3195.8  | 4262.8  | 6451.3  | 11797.4 | 23372.2 | 32660.8 | 32408.3 | 32557.7 | 27173.5 |
| 70°   | 1868.0  | 1922.3  | 2378.5  | 3019.3  | 3901.7  | 6698.3  | 18607.1 | 32340.4 | 34064.6 | 34010.3 | 26774.3 |
| 72.5° | 1363.0  | 1390.2  | 1735.0  | 2305.2  | 2891.7  | 3464.6  | 11363.0 | 26125.4 | 29736.6 | 31303.2 | 23415.7 |
| 75°   | 991.0   | 1023.6  | 1205.5  | 1724.1  | 2248.2  | 2161.3  | 5609.6  | 18870.5 | 22677.1 | 25691.0 | 19076.8 |
| 77.5° | 738.5   | 779.3   | 863.4   | 1080.6  | 1574.8  | 1547.6  | 2424.7  | 12253.6 | 14667.4 | 16779.8 | 11588.4 |
| 80°   | 532.2   | 540.3   | 589.2   | 692.4   | 999.2   | 906.9   | 1153.9  | 6388.8  | 7325.5  | 8026.1  | 4542.5  |
| 82.5° | 323.1   | 331.3   | 393.7   | 426.3   | 619.1   | 570.2   | 600.1   | 2069.0  | 2965.0  | 3146.9  | 1697.0  |
| 85°   | 95.0    | 100.5   | 179.2   | 195.5   | 257.9   | 244.4   | 241.7   | 841.7   | 1004.6  | 1284.3  | 667.9   |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 2.7     | 16.3    | 29.9    | 149.3   | 225.4   | 312.2   | 162.9   |
| 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°    | 4382.3  | 4382.3 | 4382.3 | 4382.3 | 4382.3 | 4382.3 | 4382.3 | 4382.3 | 4382.3 | 4382.3 | 4382.3 |
| 2.5°  | 4428.4  | 4366.0 | 4333.4 | 4276.4 | 4235.7 | 4194.9 | 4154.2 | 4116.2 | 4099.9 | 4075.5 | 4080.9 |
| 5°    | 4507.2  | 4409.4 | 4311.7 | 4200.4 | 4105.3 | 4026.6 | 3956.0 | 3893.6 | 3866.4 | 3842.0 | 3852.8 |
| 7.5°  | 4626.7  | 4480.0 | 4292.7 | 4089.1 | 3939.7 | 3831.1 | 3757.8 | 3714.4 | 3700.8 | 3681.8 | 3681.8 |
| 10°   | 4778.7  | 4558.8 | 4230.2 | 3939.7 | 3760.5 | 3673.6 | 3641.0 | 3638.3 | 3651.9 | 3654.6 | 3649.2 |
| 12.5° | 4947.0  | 4634.8 | 4137.9 | 3763.2 | 3611.2 | 3584.0 | 3608.5 | 3654.6 | 3700.8 | 3725.2 | 3719.8 |
| 15°   | 5120.8  | 4683.7 | 3980.4 | 3594.9 | 3502.6 | 3537.9 | 3616.6 | 3708.9 | 3798.5 | 3844.7 | 3842.0 |
| 17.5° | 5283.7  | 4694.5 | 3776.8 | 3432.0 | 3407.5 | 3497.1 | 3632.9 | 3776.8 | 3899.0 | 3964.2 | 3966.9 |
| 20°   | 5465.6  | 4675.5 | 3567.7 | 3285.4 | 3312.5 | 3459.1 | 3638.3 | 3812.1 | 3956.0 | 4021.2 | 4037.5 |
| 22.5° | 5631.3  | 4610.4 | 3364.1 | 3146.9 | 3231.1 | 3413.0 | 3594.9 | 3757.8 | 3885.4 | 3947.9 | 3969.6 |
| 25°   | 5780.6  | 4485.5 | 3141.5 | 3030.1 | 3168.6 | 3347.8 | 3486.3 | 3600.3 | 3689.9 | 3727.9 | 3757.8 |
| 27.5° | 5862.1  | 4298.1 | 2973.1 | 2937.8 | 3108.9 | 3255.5 | 3331.5 | 3366.8 | 3396.7 | 3385.8 | 3407.5 |
| 30°   | 5878.4  | 4064.6 | 2826.5 | 2864.5 | 3019.3 | 3127.9 | 3144.2 | 3108.9 | 3057.3 | 2973.1 | 2992.1 |
| 32.5° | 5862.1  | 3795.8 | 2704.3 | 2785.8 | 2918.8 | 2984.0 | 2962.3 | 2869.9 | 2745.0 | 2614.7 | 2622.9 |
| 35°   | 5867.5  | 3524.3 | 2603.9 | 2698.9 | 2802.1 | 2837.4 | 2783.1 | 2655.4 | 2522.4 | 2402.9 | 2397.5 |
| 37.5° | 5927.2  | 3296.2 | 2519.7 | 2614.7 | 2688.0 | 2693.5 | 2633.7 | 2500.7 | 2432.8 | 2343.2 | 2332.3 |
| 40°   | 6092.9  | 3127.9 | 2443.7 | 2530.5 | 2576.7 | 2574.0 | 2506.1 | 2411.1 | 2457.2 | 2427.4 | 2419.2 |
| 42.5° | 6364.4  | 3024.7 | 2381.2 | 2440.9 | 2473.5 | 2479.0 | 2424.7 | 2364.9 | 2465.4 | 2427.4 | 2413.8 |
| 45°   | 6801.5  | 3019.3 | 2337.8 | 2351.3 | 2402.9 | 2440.9 | 2402.9 | 2335.0 | 2373.1 | 2188.4 | 2153.1 |
| 47.5° | 7320.1  | 3111.6 | 2305.2 | 2272.6 | 2362.2 | 2430.1 | 2370.3 | 2261.7 | 2183.0 | 2014.7 | 1990.2 |
| 50°   | 7944.6  | 3298.9 | 2275.3 | 2188.4 | 2302.5 | 2389.4 | 2329.6 | 2180.3 | 2060.8 | 1971.2 | 1957.6 |
| 52.5° | 8685.8  | 3546.0 | 2237.3 | 2093.4 | 2212.9 | 2367.6 | 2329.6 | 2172.1 | 2014.7 | 1933.2 | 1919.6 |
| 55°   | 9462.4  | 3831.1 | 2193.9 | 1979.4 | 2112.4 | 2373.1 | 2348.6 | 2115.1 | 1979.4 | 1935.9 | 1925.1 |
| 57.5° | 10426.3 | 4173.2 | 2115.1 | 1846.3 | 2022.8 | 2324.2 | 2272.6 | 2082.5 | 1954.9 | 1919.6 | 1908.8 |
| 60°   | 11678.0 | 4681.0 | 1965.8 | 1710.6 | 1919.6 | 2237.3 | 2204.7 | 2028.2 | 1889.8 | 1859.9 | 1851.7 |
| 62.5° | 13660.0 | 5541.7 | 1783.9 | 1580.2 | 1797.4 | 2055.4 | 2104.3 | 1925.1 | 1808.3 | 1805.6 | 1802.9 |
| 65°   | 16891.1 | 6576.2 | 1569.4 | 1463.5 | 1669.8 | 1906.1 | 1971.2 | 1819.2 | 1724.1 | 1754.0 | 1751.3 |
| 67.5° | 19155.6 | 6665.8 | 1392.9 | 1341.3 | 1520.5 | 1743.1 | 1838.2 | 1710.6 | 1607.4 | 1664.4 | 1661.7 |
| 70°   | 17545.5 | 5199.6 | 1240.8 | 1213.7 | 1360.3 | 1566.7 | 1694.3 | 1574.8 | 1471.6 | 1525.9 | 1515.1 |
| 72.5° | 14797.7 | 3985.9 | 1096.9 | 1080.6 | 1197.4 | 1382.0 | 1509.6 | 1439.0 | 1330.4 | 1330.4 | 1306.0 |
| 75°   | 11892.5 | 3288.1 | 944.9  | 936.7  | 1015.5 | 1194.7 | 1338.6 | 1219.1 | 1118.7 | 1113.2 | 1096.9 |
| 77.5° | 6820.5  | 2155.8 | 792.8  | 787.4  | 811.8  | 999.2  | 1039.9 | 1015.5 | 939.5  | 904.2  | 893.3  |
| 80°   | 2717.9  | 1121.4 | 624.5  | 589.2  | 613.6  | 733.1  | 820.0  | 779.3  | 714.1  | 670.6  | 646.2  |
| 82.5° | 1053.5  | 562.0  | 439.9  | 385.6  | 420.9  | 529.5  | 594.6  | 581.0  | 537.6  | 439.9  | 412.7  |
| 85°   | 429.0   | 274.2  | 263.4  | 222.6  | 244.4  | 285.1  | 342.1  | 296.0  | 244.4  | 173.8  | 165.6  |
| 87.5° | 114.0   | 100.5  | 97.7   | 59.7   | 46.2   | 13.6   | 2.7    | 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)