

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: P641019

Luminaire Tested: GWS-SA5F-722-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641019  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-722-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

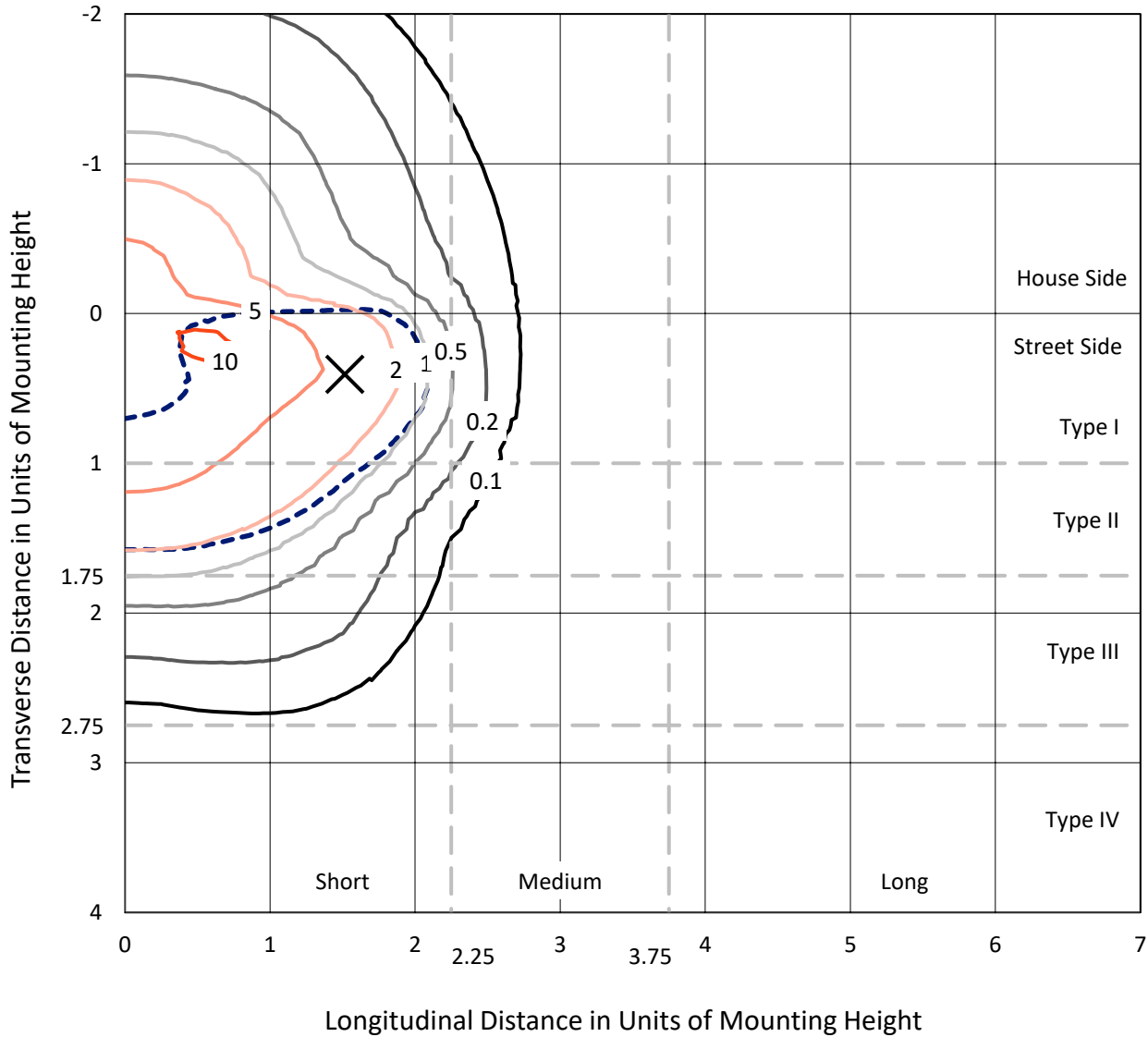
Lumens per Lamp: N/A  
Luminaire Lumens: 25632.2 lumens  
Efficiency: N/A  
Efficacy: 82.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

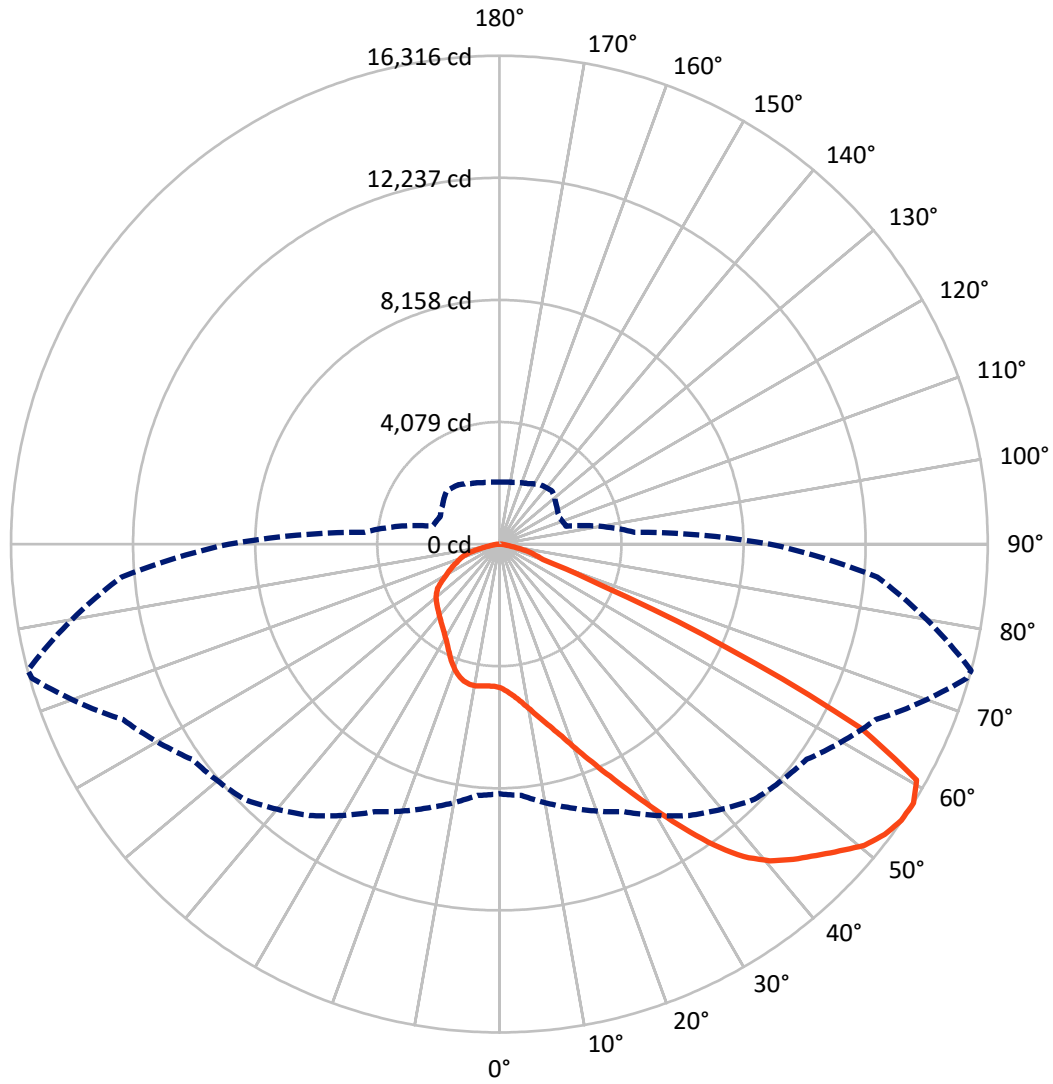
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6934.0   | 0.0    | 6934.0  |
|                    | % Fixture | 27.1     | 0.0    | 27.1    |
| <b>Street Side</b> | Lumens    | 18698.2  | 0.0    | 18698.2 |
|                    | % Fixture | 72.9     | 0.0    | 72.9    |
| <b>Total</b>       | Lumens    | 25632.2  | 0.0    | 25632.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 480.4   | 1.9       |
| 10°-20°   | 1529.4  | 6.0       |
| 20°-30°   | 2712.3  | 10.6      |
| 30°-40°   | 4152.1  | 16.2      |
| 40°-50°   | 5781.4  | 22.6      |
| 50°-60°   | 6624.4  | 25.8      |
| 60°-70°   | 3403.7  | 13.3      |
| 70°-80°   | 856.9   | 3.3       |
| 80°-90°   | 91.6    | 0.4       |
| 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°    | 25632.2 | 100.0     |
| 0°-180°   | 25632.2 | 100.0     |

**Coefficient of Utilization**



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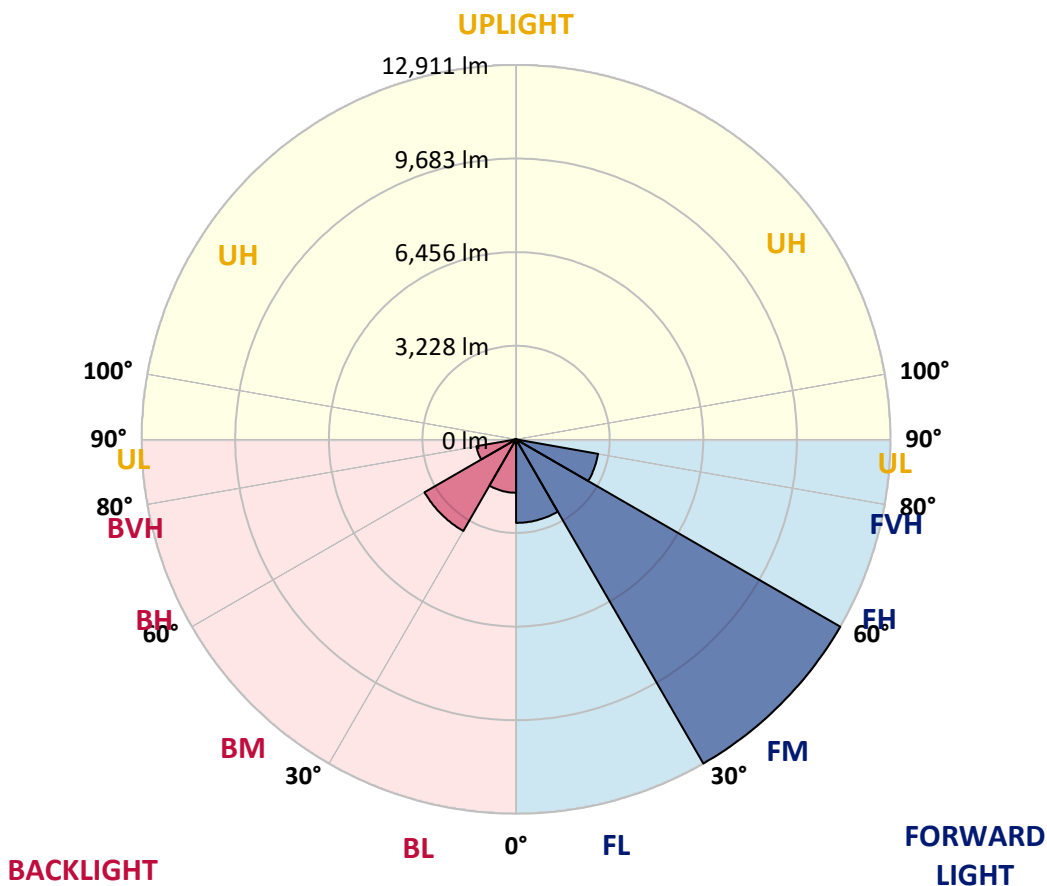
CATALOG NUMBER: GWS-SA5F-722-U-T2-W-GRSWH

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2879.9  | 11.2      |                         |      |         |
| FM (30°-60°)   | 12911.2 | 50.4      |                         |      |         |
| FH (60°-80°)   | 2873.1  | 11.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 33.9    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1842.1  | 7.2       | B3/2500                 |      |         |
| BM (30°-60°)   | 3646.7  | 14.2      | B3/5000                 |      |         |
| BH (60°-80°)   | 1387.5  | 5.4       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 57.7    | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 74°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4800.3  | 4800.3  | 4800.3  | 4800.3  | 4800.3  | 4800.3  | 4800.3  | 4800.3  | 4800.3  | 4800.3  | 4800.3  |
| 2.5°  | 5157.3  | 5170.6  | 5157.3  | 5179.4  | 5135.3  | 5115.5  | 5067.0  | 4994.2  | 4936.9  | 4928.1  | 4864.2  |
| 5°    | 5558.5  | 5587.1  | 5569.5  | 5560.7  | 5501.2  | 5457.1  | 5384.4  | 5238.9  | 5119.9  | 5102.2  | 4976.6  |
| 7.5°  | 5816.3  | 5836.2  | 5836.2  | 5842.8  | 5820.7  | 5770.1  | 5692.9  | 5521.0  | 5353.5  | 5327.0  | 5137.5  |
| 10°   | 5902.3  | 5917.7  | 5946.4  | 6001.5  | 6045.6  | 6061.0  | 6010.3  | 5845.0  | 5640.0  | 5613.6  | 5349.1  |
| 12.5° | 5922.1  | 5939.8  | 5983.8  | 6085.2  | 6206.4  | 6316.6  | 6325.5  | 6204.2  | 5975.0  | 5946.4  | 5593.7  |
| 15°   | 5959.6  | 5977.2  | 6036.7  | 6162.4  | 6340.9  | 6552.5  | 6682.5  | 6598.8  | 6345.3  | 6314.4  | 5871.4  |
| 17.5° | 5955.2  | 5975.0  | 6063.2  | 6230.7  | 6470.9  | 6777.3  | 7028.5  | 7063.8  | 6801.5  | 6748.6  | 6186.6  |
| 20°   | 5944.2  | 5961.8  | 6056.6  | 6261.5  | 6559.1  | 6980.0  | 7434.1  | 7617.0  | 7334.9  | 7286.4  | 6554.7  |
| 22.5° | 6032.3  | 6052.2  | 6124.9  | 6294.6  | 6605.4  | 7136.5  | 7808.7  | 8249.5  | 7967.4  | 7899.1  | 6977.8  |
| 25°   | 6230.7  | 6259.3  | 6303.4  | 6420.2  | 6689.1  | 7275.4  | 8192.2  | 8965.8  | 8677.1  | 8595.6  | 7438.5  |
| 27.5° | 6537.0  | 6572.3  | 6634.0  | 6689.1  | 6876.5  | 7451.7  | 8573.5  | 9768.1  | 9479.4  | 9393.4  | 7925.6  |
| 30°   | 6911.7  | 6958.0  | 7037.3  | 7074.8  | 7202.6  | 7711.8  | 8987.9  | 10594.6 | 10427.1 | 10308.1 | 8474.4  |
| 32.5° | 7429.7  | 7493.6  | 7568.5  | 7579.5  | 7656.7  | 8106.3  | 9397.8  | 11414.5 | 11412.3 | 11328.5 | 9098.1  |
| 35°   | 8104.1  | 8172.4  | 8187.8  | 8203.3  | 8240.7  | 8648.5  | 9893.7  | 12161.6 | 12450.4 | 12353.4 | 9776.9  |
| 37.5° | 8840.2  | 8939.4  | 8963.6  | 8895.3  | 8948.2  | 9300.8  | 10451.3 | 12761.1 | 13354.0 | 13250.4 | 10433.7 |
| 40°   | 9627.0  | 9666.7  | 9732.8  | 9624.8  | 9691.0  | 10048.0 | 10997.9 | 13144.6 | 14028.4 | 13918.2 | 10951.6 |
| 42.5° | 10191.3 | 10264.0 | 10363.2 | 10323.5 | 10361.0 | 10687.2 | 11381.4 | 13329.7 | 14508.9 | 14398.7 | 11324.1 |
| 45°   | 10804.0 | 10826.0 | 10889.9 | 10881.1 | 10903.2 | 11207.3 | 11656.9 | 13411.3 | 14938.7 | 14839.5 | 11641.5 |
| 47.5° | 11337.3 | 11370.4 | 11412.3 | 11363.8 | 11315.3 | 11513.7 | 11881.7 | 13481.8 | 15434.6 | 15315.5 | 11974.3 |
| 50°   | 11850.9 | 11879.5 | 11930.2 | 11789.2 | 11608.4 | 11659.1 | 11991.9 | 13578.8 | 15899.6 | 15815.9 | 12236.6 |
| 52.5° | 11945.6 | 11976.5 | 12214.5 | 12243.2 | 12011.8 | 11833.2 | 12185.9 | 13792.6 | 16172.9 | 16120.0 | 12331.3 |
| 55°   | 10753.3 | 10808.4 | 11282.2 | 11826.6 | 12397.5 | 12340.2 | 12496.6 | 13905.0 | 16280.9 | 16294.1 | 12501.0 |
| 57.5° | 8346.5  | 8425.9  | 9117.9  | 9865.1  | 11066.2 | 12060.2 | 12536.3 | 13876.3 | 16243.4 | 16316.2 | 12675.2 |
| 60°   | 5474.7  | 5521.0  | 6340.9  | 7178.4  | 8423.7  | 9799.0  | 11220.5 | 13360.6 | 15910.6 | 16014.2 | 12631.1 |
| 62.5° | 3306.0  | 3358.9  | 4017.9  | 4652.6  | 5386.6  | 6305.6  | 7610.4  | 10737.9 | 13336.4 | 13567.8 | 10116.3 |
| 65°   | 2307.6  | 2378.1  | 2955.6  | 3477.9  | 3731.4  | 3541.8  | 3854.8  | 5997.1  | 8309.1  | 8406.0  | 6182.2  |
| 67.5° | 1672.8  | 1721.3  | 2195.2  | 2816.7  | 3096.6  | 2501.5  | 1906.5  | 2655.8  | 3619.0  | 3654.2  | 2550.0  |
| 70°   | 1095.4  | 1150.5  | 1580.3  | 2144.5  | 2528.0  | 2027.7  | 1426.0  | 1437.0  | 1523.0  | 1540.6  | 1481.1  |
| 72.5° | 601.7   | 634.7   | 976.4   | 1423.8  | 1494.3  | 1212.2  | 1113.0  | 1194.6  | 1254.1  | 1254.1  | 1269.5  |
| 75°   | 310.8   | 339.4   | 398.9   | 469.5   | 566.4   | 663.4   | 802.3   | 923.5   | 987.4   | 991.8   | 985.2   |
| 77.5° | 158.7   | 169.7   | 213.8   | 231.4   | 253.5   | 295.3   | 383.5   | 491.5   | 548.8   | 570.8   | 566.4   |
| 80°   | 74.9    | 79.3    | 90.4    | 105.8   | 130.0   | 165.3   | 207.2   | 246.8   | 282.1   | 286.5   | 310.8   |
| 82.5° | 39.7    | 44.1    | 48.5    | 57.3    | 70.5    | 88.2    | 121.2   | 145.5   | 167.5   | 171.9   | 191.7   |
| 85°   | 15.4    | 17.6    | 19.8    | 22.0    | 30.9    | 37.5    | 50.7    | 68.3    | 83.8    | 83.8    | 99.2    |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 2.2     | 4.4     | 8.8     | 11.0    | 15.4    | 15.4    | 26.4    |
| 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°    | 4800.3 | 4800.3 | 4800.3 | 4800.3 | 4800.3 | 4800.3 | 4800.3 | 4800.3 | 4800.3 | 4800.3 | 4800.3 |
| 2.5°  | 4848.8 | 4784.9 | 4756.2 | 4709.9 | 4672.5 | 4630.6 | 4597.5 | 4573.3 | 4557.9 | 4549.0 | 4540.2 |
| 5°    | 4928.1 | 4831.2 | 4754.0 | 4661.4 | 4597.5 | 4535.8 | 4485.1 | 4449.9 | 4432.2 | 4419.0 | 4410.2 |
| 7.5°  | 5051.6 | 4921.5 | 4776.1 | 4632.8 | 4520.4 | 4421.2 | 4357.3 | 4319.8 | 4295.6 | 4286.8 | 4280.2 |
| 10°   | 5221.3 | 5040.5 | 4800.3 | 4573.3 | 4405.8 | 4297.8 | 4253.7 | 4236.1 | 4238.3 | 4233.9 | 4231.7 |
| 12.5° | 5413.0 | 5166.2 | 4793.7 | 4467.5 | 4282.4 | 4218.4 | 4220.6 | 4249.3 | 4282.4 | 4291.2 | 4293.4 |
| 15°   | 5620.2 | 5289.6 | 4729.8 | 4330.8 | 4185.4 | 4192.0 | 4249.3 | 4317.6 | 4379.3 | 4403.6 | 4408.0 |
| 17.5° | 5845.0 | 5393.2 | 4613.0 | 4181.0 | 4106.0 | 4176.6 | 4282.4 | 4394.8 | 4485.1 | 4524.8 | 4535.8 |
| 20°   | 6096.2 | 5481.3 | 4447.7 | 4033.3 | 4031.1 | 4147.9 | 4302.2 | 4449.9 | 4564.5 | 4617.4 | 4626.2 |
| 22.5° | 6362.9 | 5536.4 | 4244.9 | 3896.7 | 3954.0 | 4110.4 | 4286.8 | 4441.0 | 4562.3 | 4615.2 | 4626.2 |
| 25°   | 6631.8 | 5554.1 | 4022.3 | 3771.0 | 3874.6 | 4050.9 | 4211.8 | 4335.3 | 4449.9 | 4496.1 | 4505.0 |
| 27.5° | 6883.1 | 5503.4 | 3810.7 | 3663.0 | 3801.9 | 3962.8 | 4070.8 | 4136.9 | 4216.2 | 4251.5 | 4258.1 |
| 30°   | 7138.7 | 5402.0 | 3632.2 | 3577.1 | 3720.3 | 3841.6 | 3890.0 | 3894.5 | 3925.3 | 3925.3 | 3929.7 |
| 32.5° | 7396.6 | 5252.1 | 3475.7 | 3493.3 | 3619.0 | 3698.3 | 3704.9 | 3654.2 | 3616.8 | 3555.0 | 3552.8 |
| 35°   | 7694.1 | 5100.0 | 3347.9 | 3398.6 | 3499.9 | 3548.4 | 3528.6 | 3431.6 | 3341.3 | 3239.9 | 3235.5 |
| 37.5° | 7969.6 | 4943.6 | 3239.9 | 3301.6 | 3365.5 | 3400.8 | 3354.5 | 3237.7 | 3162.7 | 3059.1 | 3043.7 |
| 40°   | 8196.6 | 4802.5 | 3136.3 | 3200.2 | 3231.1 | 3261.9 | 3187.0 | 3092.2 | 3103.2 | 3045.9 | 3043.7 |
| 42.5° | 8328.9 | 4665.9 | 3039.3 | 3087.8 | 3107.6 | 3129.7 | 3063.5 | 2993.0 | 3052.5 | 3008.4 | 3010.7 |
| 45°   | 8425.9 | 4546.8 | 2951.1 | 2968.8 | 3017.3 | 3050.3 | 2988.6 | 2909.3 | 2922.5 | 2752.8 | 2713.1 |
| 47.5° | 8536.1 | 4480.7 | 2867.4 | 2849.8 | 2935.7 | 2993.0 | 2898.3 | 2783.6 | 2704.3 | 2536.8 | 2521.4 |
| 50°   | 8652.9 | 4456.5 | 2779.2 | 2730.7 | 2834.3 | 2889.4 | 2779.2 | 2636.0 | 2532.4 | 2442.0 | 2433.2 |
| 52.5° | 8692.5 | 4454.3 | 2669.0 | 2587.5 | 2691.1 | 2768.2 | 2675.6 | 2530.2 | 2406.8 | 2318.6 | 2314.2 |
| 55°   | 8849.0 | 4518.2 | 2528.0 | 2391.3 | 2488.3 | 2647.0 | 2578.7 | 2369.3 | 2270.1 | 2230.4 | 2226.0 |
| 57.5° | 9032.0 | 4529.2 | 2305.4 | 2177.5 | 2312.0 | 2499.3 | 2413.4 | 2232.6 | 2124.6 | 2076.2 | 2071.8 |
| 60°   | 8957.0 | 4258.1 | 2067.3 | 2014.4 | 2162.1 | 2360.5 | 2281.1 | 2124.6 | 1999.0 | 1952.7 | 1948.3 |
| 62.5° | 6825.8 | 3006.2 | 1893.2 | 1873.4 | 2001.2 | 2159.9 | 2144.5 | 1981.4 | 1862.4 | 1829.3 | 1824.9 |
| 65°   | 4106.0 | 2111.4 | 1725.7 | 1723.5 | 1813.9 | 1966.0 | 1985.8 | 1853.6 | 1727.9 | 1681.6 | 1681.6 |
| 67.5° | 2029.9 | 1615.5 | 1536.2 | 1525.2 | 1582.5 | 1690.5 | 1774.2 | 1666.2 | 1560.4 | 1516.3 | 1509.7 |
| 70°   | 1434.8 | 1423.8 | 1397.3 | 1366.5 | 1377.5 | 1421.6 | 1456.8 | 1366.5 | 1254.1 | 1210.0 | 1201.2 |
| 72.5° | 1240.8 | 1243.1 | 1225.4 | 1201.2 | 1192.4 | 1161.5 | 1130.6 | 1064.5 | 996.2  | 949.9  | 954.3  |
| 75°   | 963.1  | 967.6  | 978.6  | 969.8  | 945.5  | 912.5  | 879.4  | 795.6  | 740.5  | 696.5  | 687.6  |
| 77.5° | 562.0  | 584.1  | 619.3  | 610.5  | 614.9  | 568.6  | 555.4  | 473.9  | 423.2  | 392.3  | 385.7  |
| 80°   | 317.4  | 330.6  | 346.0  | 357.0  | 343.8  | 324.0  | 295.3  | 251.3  | 235.8  | 213.8  | 209.4  |
| 82.5° | 191.7  | 205.0  | 211.6  | 220.4  | 216.0  | 189.5  | 167.5  | 138.9  | 125.6  | 114.6  | 112.4  |
| 85°   | 97.0   | 105.8  | 112.4  | 116.8  | 103.6  | 86.0   | 77.1   | 61.7   | 52.9   | 46.3   | 46.3   |
| 87.5° | 24.2   | 26.4   | 30.9   | 26.4   | 24.2   | 11.0   | 8.8    | 2.2    | 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)