

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: P636291

Luminaire Tested: GWS-SA3F-740-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636291  
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-SA3F-740-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

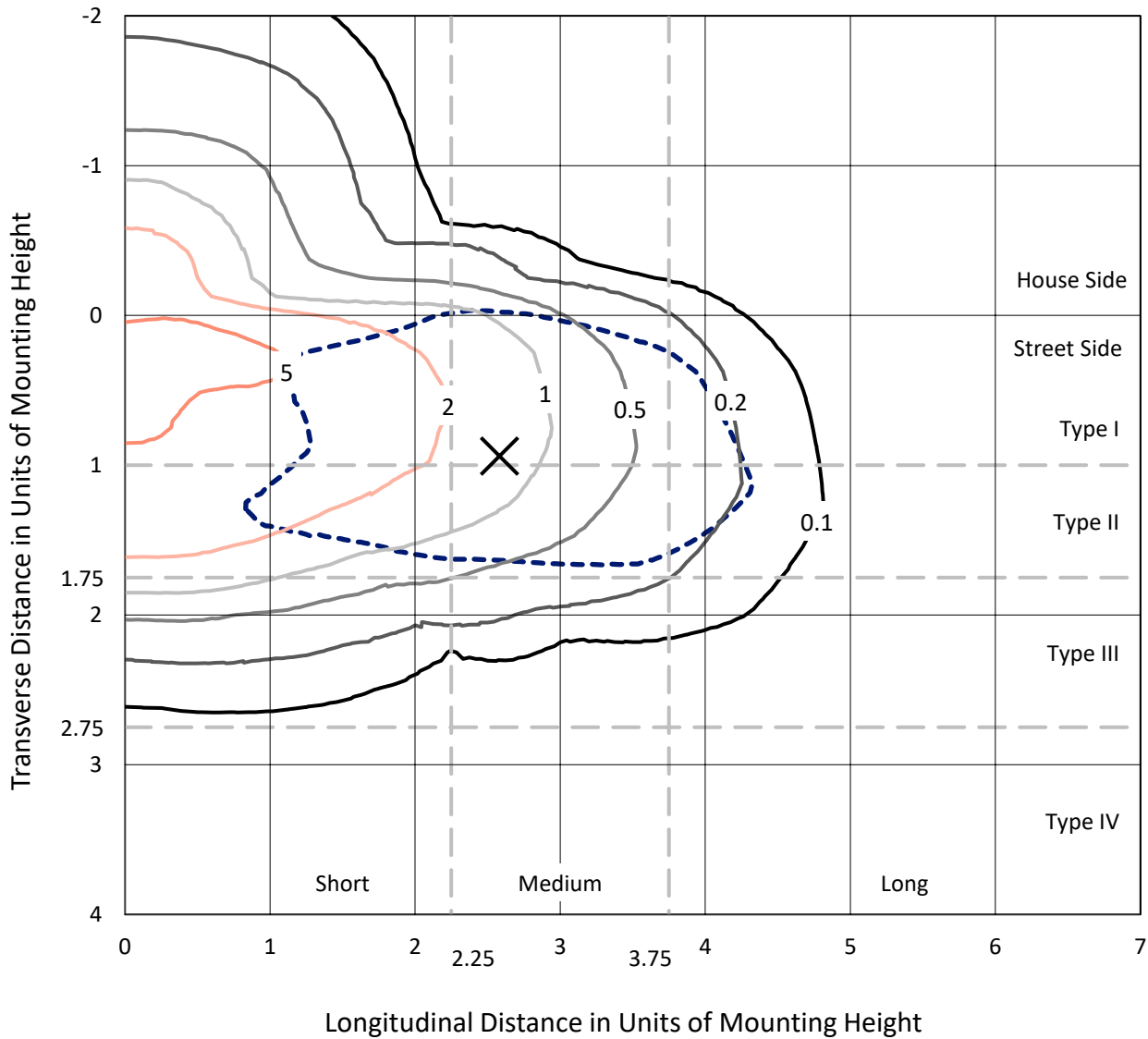
Lumens per Lamp: N/A  
Luminaire Lumens: 24258.7 lumens  
Efficiency: N/A  
Efficacy: 132.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

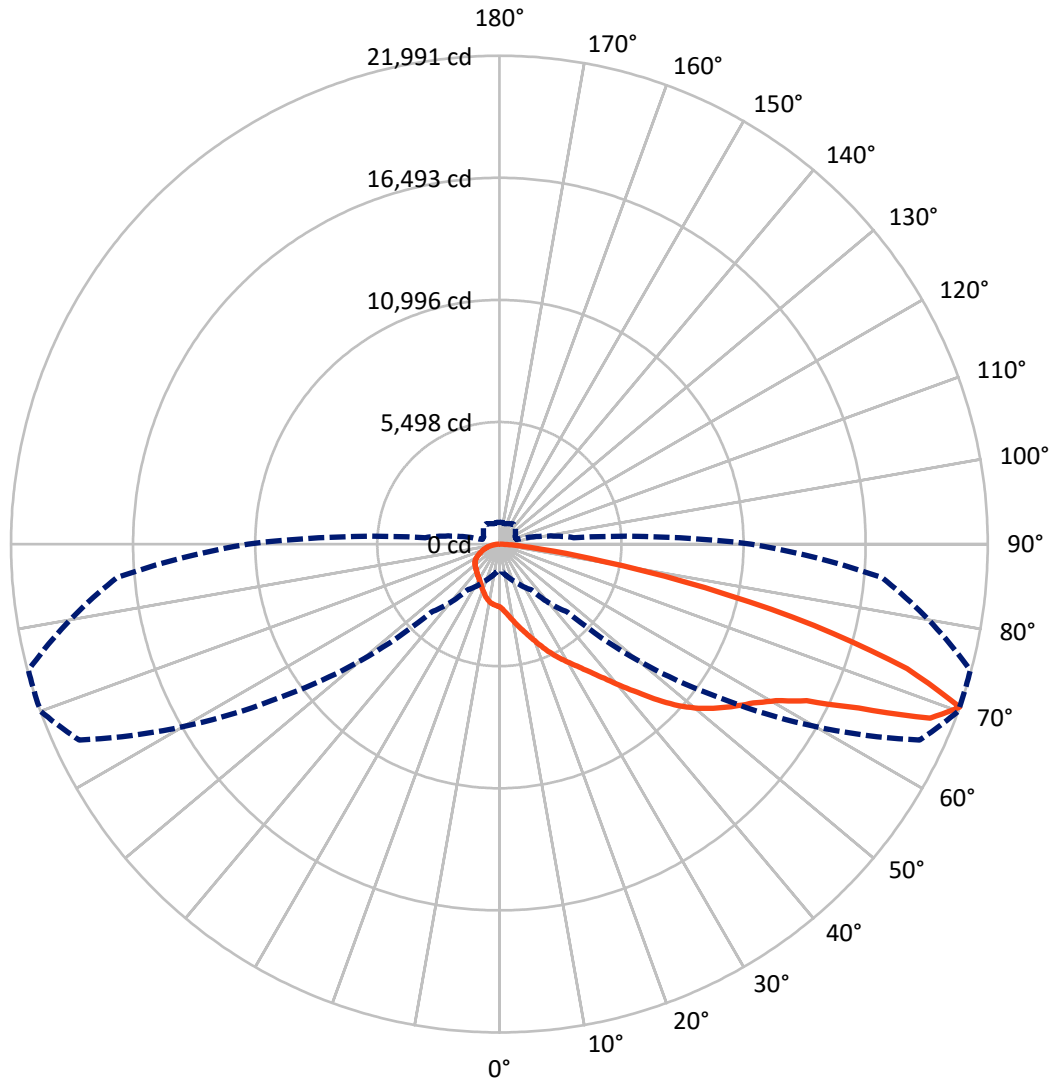
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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    | 4347.2   | 0.0    | 4347.2  |
|                    | % Fixture | 17.9     | 0.0    | 17.9    |
| <b>Street Side</b> | Lumens    | 19911.5  | 0.0    | 19911.5 |
|                    | % Fixture | 82.1     | 0.0    | 82.1    |
| <b>Total</b>       | Lumens    | 24258.7  | 0.0    | 24258.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 287.5   | 1.2       |
| 10°-20°   | 935.4   | 3.9       |
| 20°-30°   | 1657.1  | 6.8       |
| 30°-40°   | 2493.9  | 10.3      |
| 40°-50°   | 3773.0  | 15.6      |
| 50°-60°   | 5405.0  | 22.3      |
| 60°-70°   | 5974.6  | 24.6      |
| 70°-80°   | 3371.6  | 13.9      |
| 80°-90°   | 360.7   | 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°    | 24258.7 | 100.0     |
| 0°-180°   | 24258.7 | 100.0     |

**Coefficient of Utilization**



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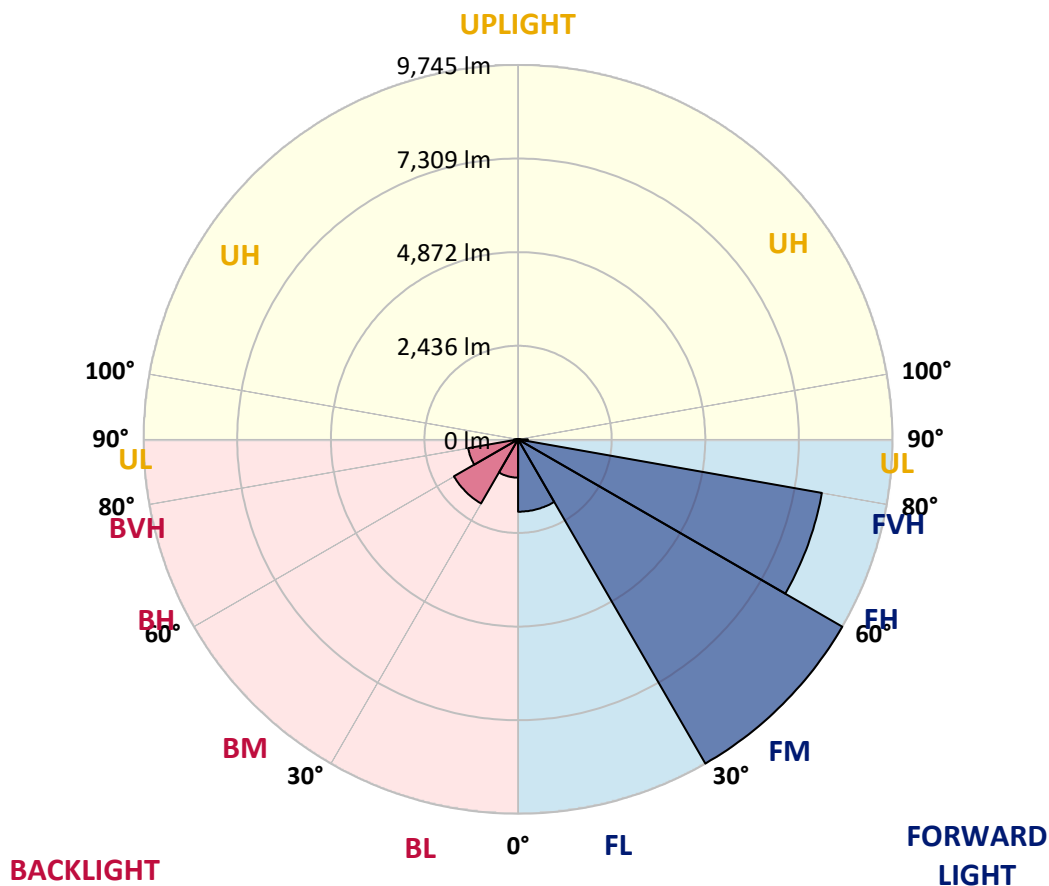
CATALOG NUMBER: GWS-SA3F-740-U-T2-W

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1883.2 | 7.8       |                         |      |          |
| FM (30°-60°)   | 9744.7 | 40.2      |                         |      |          |
| FH (60°-80°)   | 8028.6 | 33.1      |                         |      | G4/12000 |
| FVH (80°-90°)  | 254.9  | 1.1       |                         |      | G3/500   |
| BL (0°-30°)    | 996.8  | 4.1       | B2/1000                 |      |          |
| BM (30°-60°)   | 1927.2 | 7.9       | B2/2500                 |      |          |
| BH (60°-80°)   | 1317.6 | 5.4       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 105.7  | 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-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 70°     | 75°     | 85°     |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2829.1 | 2829.1 | 2829.1  | 2829.1  | 2829.1  | 2829.1  | 2829.1  | 2829.1  | 2829.1  | 2829.1  | 2829.1  |
| 2.5°  | 3134.1 | 3128.8 | 3132.3  | 3128.8  | 3109.5  | 3062.2  | 3023.6  | 2974.6  | 2941.2  | 2922.0  | 2876.4  |
| 5°    | 3502.2 | 3496.9 | 3484.6  | 3467.1  | 3432.0  | 3367.2  | 3270.8  | 3163.9  | 3099.0  | 3049.9  | 2953.5  |
| 7.5°  | 3766.8 | 3766.8 | 3765.1  | 3744.0  | 3719.5  | 3651.1  | 3537.2  | 3397.0  | 3302.3  | 3218.2  | 3060.4  |
| 10°   | 3901.8 | 3910.6 | 3922.8  | 3952.6  | 3947.4  | 3910.6  | 3803.6  | 3652.9  | 3533.7  | 3435.5  | 3200.7  |
| 12.5° | 3975.4 | 3980.7 | 4001.7  | 4063.1  | 4126.2  | 4134.9  | 4071.8  | 3914.1  | 3784.4  | 3652.9  | 3356.7  |
| 15°   | 4070.1 | 4071.8 | 4099.9  | 4173.5  | 4266.4  | 4359.3  | 4343.5  | 4185.8  | 4052.5  | 3907.1  | 3530.2  |
| 17.5° | 4143.7 | 4156.0 | 4206.8  | 4292.7  | 4408.4  | 4536.3  | 4613.4  | 4515.3  | 4350.5  | 4184.0  | 3719.5  |
| 20°   | 4170.0 | 4178.7 | 4245.4  | 4376.8  | 4534.6  | 4715.1  | 4886.9  | 4860.6  | 4694.1  | 4497.8  | 3933.3  |
| 22.5° | 4264.6 | 4264.6 | 4313.7  | 4424.1  | 4609.9  | 4872.9  | 5151.6  | 5219.9  | 5072.7  | 4843.1  | 4163.0  |
| 25°   | 4473.2 | 4466.2 | 4489.0  | 4534.6  | 4674.8  | 4999.1  | 5412.7  | 5617.8  | 5453.1  | 5195.4  | 4392.6  |
| 27.5° | 4758.9 | 4755.4 | 4753.7  | 4760.7  | 4808.0  | 5109.5  | 5633.6  | 5989.4  | 5824.7  | 5533.7  | 4597.7  |
| 30°   | 5069.2 | 5058.7 | 5081.5  | 5060.4  | 5049.9  | 5241.0  | 5821.1  | 6322.5  | 6194.5  | 5868.5  | 4767.7  |
| 32.5° | 5491.6 | 5472.3 | 5467.1  | 5398.7  | 5356.6  | 5446.0  | 5971.9  | 6701.1  | 6599.4  | 6229.6  | 4958.8  |
| 35°   | 6049.0 | 6031.5 | 5942.1  | 5833.4  | 5709.0  | 5751.0  | 6159.4  | 7070.9  | 7077.9  | 6681.8  | 5209.4  |
| 37.5° | 6611.7 | 6615.2 | 6545.1  | 6289.2  | 6161.2  | 6136.7  | 6445.2  | 7521.4  | 7672.1  | 7221.7  | 5533.7  |
| 40°   | 7079.7 | 7100.7 | 7100.7  | 6830.8  | 6639.7  | 6616.9  | 6846.6  | 8056.0  | 8355.7  | 7884.2  | 5943.8  |
| 42.5° | 7435.5 | 7454.8 | 7516.1  | 7321.6  | 7120.0  | 7198.9  | 7333.8  | 8592.4  | 9130.5  | 8702.8  | 6462.7  |
| 45°   | 7826.4 | 7842.2 | 7875.5  | 7763.3  | 7645.8  | 7856.2  | 7886.0  | 9233.9  | 10017.4 | 9621.3  | 7065.7  |
| 47.5° | 8345.2 | 8331.2 | 8334.7  | 8252.3  | 8161.2  | 8501.2  | 8494.2  | 9773.8  | 10874.6 | 10627.4 | 7719.5  |
| 50°   | 8990.3 | 9016.6 | 8992.0  | 8829.0  | 8722.1  | 9032.3  | 9072.6  | 10371.5 | 11628.3 | 11623.0 | 8378.5  |
| 52.5° | 9610.8 | 9621.3 | 9751.0  | 9758.0  | 9538.9  | 9474.0  | 9579.2  | 10974.5 | 12264.5 | 12534.5 | 9011.3  |
| 55°   | 9642.3 | 9682.6 | 10071.8 | 10352.2 | 10706.3 | 10185.7 | 10091.0 | 11549.4 | 12879.8 | 13426.7 | 9668.6  |
| 57.5° | 8971.0 | 9035.8 | 9696.7  | 10301.4 | 11286.5 | 11407.4 | 10967.5 | 12292.6 | 13495.0 | 14304.8 | 10429.3 |
| 60°   | 7537.2 | 7672.1 | 8569.6  | 9495.1  | 11025.3 | 12285.6 | 12760.6 | 13302.2 | 14303.1 | 15202.3 | 11353.1 |
| 62.5° | 4813.3 | 4865.9 | 6124.4  | 7673.9  | 9849.1  | 12199.7 | 14713.3 | 15081.3 | 15533.6 | 16371.4 | 12776.4 |
| 65°   | 2410.1 | 2578.4 | 3316.4  | 4580.1  | 7102.5  | 10750.1 | 15700.1 | 18339.9 | 17786.0 | 18373.2 | 15083.1 |
| 67.5° | 1635.4 | 1689.7 | 2063.1  | 2751.9  | 4164.7  | 7616.0  | 15088.4 | 21084.8 | 20921.8 | 21018.2 | 17542.3 |
| 70°   | 1205.9 | 1241.0 | 1535.5  | 1949.1  | 2518.8  | 4324.2  | 12012.1 | 20878.0 | 21991.0 | 21955.9 | 17284.7 |
| 72.5° | 879.9  | 897.4  | 1120.1  | 1488.2  | 1866.8  | 2236.6  | 7335.6  | 16865.7 | 19197.0 | 20208.4 | 15116.4 |
| 75°   | 639.8  | 660.8  | 778.3   | 1113.0  | 1451.3  | 1395.3  | 3621.3  | 12182.2 | 14639.6 | 16585.3 | 12315.4 |
| 77.5° | 476.8  | 503.1  | 557.4   | 697.6   | 1016.6  | 999.1   | 1565.3  | 7910.5  | 9468.8  | 10832.5 | 7481.1  |
| 80°   | 343.6  | 348.8  | 380.4   | 447.0   | 645.0   | 585.4   | 745.0   | 4124.4  | 4729.1  | 5181.4  | 2932.5  |
| 82.5° | 208.6  | 213.8  | 254.2   | 275.2   | 399.6   | 368.1   | 387.4   | 1335.7  | 1914.1  | 2031.5  | 1095.5  |
| 85°   | 61.3   | 64.9   | 115.7   | 126.2   | 166.5   | 157.8   | 156.0   | 543.4   | 648.5   | 829.1   | 431.2   |
| 87.5° | 0.0    | 0.0    | 0.0     | 0.0     | 1.8     | 10.5    | 19.3    | 96.4    | 145.5   | 201.6   | 105.2   |
| 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°    | 2829.1  | 2829.1 | 2829.1 | 2829.1 | 2829.1 | 2829.1 | 2829.1 | 2829.1 | 2829.1 | 2829.1 | 2829.1 |
| 2.5°  | 2858.9  | 2818.5 | 2797.5 | 2760.7 | 2734.4 | 2708.1 | 2681.8 | 2657.3 | 2646.8 | 2631.0 | 2634.5 |
| 5°    | 2909.7  | 2846.6 | 2783.5 | 2711.6 | 2650.3 | 2599.4 | 2553.9 | 2513.6 | 2496.0 | 2480.3 | 2487.3 |
| 7.5°  | 2986.8  | 2892.2 | 2771.2 | 2639.8 | 2543.4 | 2473.2 | 2425.9 | 2397.9 | 2389.1 | 2376.8 | 2376.8 |
| 10°   | 3085.0  | 2943.0 | 2730.9 | 2543.4 | 2427.7 | 2371.6 | 2350.5 | 2348.8 | 2357.6 | 2359.3 | 2355.8 |
| 12.5° | 3193.7  | 2992.1 | 2671.3 | 2429.4 | 2331.3 | 2313.7 | 2329.5 | 2359.3 | 2389.1 | 2404.9 | 2401.4 |
| 15°   | 3305.8  | 3023.6 | 2569.6 | 2320.7 | 2261.2 | 2283.9 | 2334.8 | 2394.4 | 2452.2 | 2482.0 | 2480.3 |
| 17.5° | 3411.0  | 3030.6 | 2438.2 | 2215.6 | 2199.8 | 2257.6 | 2345.3 | 2438.2 | 2517.1 | 2559.1 | 2560.9 |
| 20°   | 3528.4  | 3018.4 | 2303.2 | 2120.9 | 2138.5 | 2233.1 | 2348.8 | 2461.0 | 2553.9 | 2595.9 | 2606.5 |
| 22.5° | 3635.4  | 2976.3 | 2171.8 | 2031.5 | 2085.9 | 2203.3 | 2320.7 | 2425.9 | 2508.3 | 2548.6 | 2562.6 |
| 25°   | 3731.8  | 2895.7 | 2028.0 | 1956.2 | 2045.6 | 2161.2 | 2250.6 | 2324.3 | 2382.1 | 2406.6 | 2425.9 |
| 27.5° | 3784.4  | 2774.7 | 1919.3 | 1896.6 | 2007.0 | 2101.6 | 2150.7 | 2173.5 | 2192.8 | 2185.8 | 2199.8 |
| 30°   | 3794.9  | 2624.0 | 1824.7 | 1849.2 | 1949.1 | 2019.3 | 2029.8 | 2007.0 | 1973.7 | 1919.3 | 1931.6 |
| 32.5° | 3784.4  | 2450.5 | 1745.8 | 1798.4 | 1884.3 | 1926.4 | 1912.3 | 1852.7 | 1772.1 | 1688.0 | 1693.2 |
| 35°   | 3787.9  | 2275.2 | 1681.0 | 1742.3 | 1808.9 | 1831.7 | 1796.7 | 1714.3 | 1628.4 | 1551.3 | 1547.7 |
| 37.5° | 3826.4  | 2127.9 | 1626.6 | 1688.0 | 1735.3 | 1738.8 | 1700.2 | 1614.4 | 1570.5 | 1512.7 | 1505.7 |
| 40°   | 3933.3  | 2019.3 | 1577.5 | 1633.6 | 1663.4 | 1661.7 | 1617.9 | 1556.5 | 1586.3 | 1567.0 | 1561.8 |
| 42.5° | 4108.6  | 1952.7 | 1537.2 | 1575.8 | 1596.8 | 1600.3 | 1565.3 | 1526.7 | 1591.6 | 1567.0 | 1558.3 |
| 45°   | 4390.8  | 1949.1 | 1509.2 | 1518.0 | 1551.3 | 1575.8 | 1551.3 | 1507.4 | 1532.0 | 1412.8 | 1390.0 |
| 47.5° | 4725.6  | 2008.7 | 1488.2 | 1467.1 | 1525.0 | 1568.8 | 1530.2 | 1460.1 | 1409.3 | 1300.6 | 1284.8 |
| 50°   | 5128.8  | 2129.7 | 1468.9 | 1412.8 | 1486.4 | 1542.5 | 1503.9 | 1407.5 | 1330.4 | 1272.6 | 1263.8 |
| 52.5° | 5607.3  | 2289.2 | 1444.3 | 1351.4 | 1428.6 | 1528.5 | 1503.9 | 1402.3 | 1300.6 | 1248.0 | 1239.3 |
| 55°   | 6108.6  | 2473.2 | 1416.3 | 1277.8 | 1363.7 | 1532.0 | 1516.2 | 1365.5 | 1277.8 | 1249.8 | 1242.8 |
| 57.5° | 6730.9  | 2694.1 | 1365.5 | 1191.9 | 1305.9 | 1500.4 | 1467.1 | 1344.4 | 1262.0 | 1239.3 | 1232.2 |
| 60°   | 7538.9  | 3021.9 | 1269.0 | 1104.3 | 1239.3 | 1444.3 | 1423.3 | 1309.4 | 1220.0 | 1200.7 | 1195.4 |
| 62.5° | 8818.5  | 3577.5 | 1151.6 | 1020.1 | 1160.4 | 1326.9 | 1358.4 | 1242.8 | 1167.4 | 1165.6 | 1163.9 |
| 65°   | 10904.4 | 4245.4 | 1013.1 | 944.8  | 1078.0 | 1230.5 | 1272.6 | 1174.4 | 1113.0 | 1132.3 | 1130.6 |
| 67.5° | 12366.2 | 4303.2 | 899.2  | 865.9  | 981.6  | 1125.3 | 1186.7 | 1104.3 | 1037.7 | 1074.5 | 1072.7 |
| 70°   | 11326.8 | 3356.7 | 801.0  | 783.5  | 878.2  | 1011.4 | 1093.8 | 1016.6 | 950.0  | 985.1  | 978.1  |
| 72.5° | 9552.9  | 2573.2 | 708.1  | 697.6  | 773.0  | 892.2  | 974.6  | 929.0  | 858.9  | 858.9  | 843.1  |
| 75°   | 7677.4  | 2122.7 | 610.0  | 604.7  | 655.6  | 771.2  | 864.1  | 787.0  | 722.2  | 718.7  | 708.1  |
| 77.5° | 4403.1  | 1391.7 | 511.8  | 508.3  | 524.1  | 645.0  | 671.3  | 655.6  | 606.5  | 583.7  | 576.7  |
| 80°   | 1754.6  | 723.9  | 403.2  | 380.4  | 396.1  | 473.3  | 529.4  | 503.1  | 461.0  | 432.9  | 417.2  |
| 82.5° | 680.1   | 362.8  | 284.0  | 248.9  | 271.7  | 341.8  | 383.9  | 375.1  | 347.1  | 284.0  | 266.4  |
| 85°   | 276.9   | 177.0  | 170.0  | 143.7  | 157.8  | 184.0  | 220.9  | 191.1  | 157.8  | 112.2  | 106.9  |
| 87.5° | 73.6    | 64.9   | 63.1   | 38.6   | 29.8   | 8.8    | 1.8    | 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)