

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: P635865

Luminaire Tested: GWS-SA3E-750-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635865  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3E-750-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

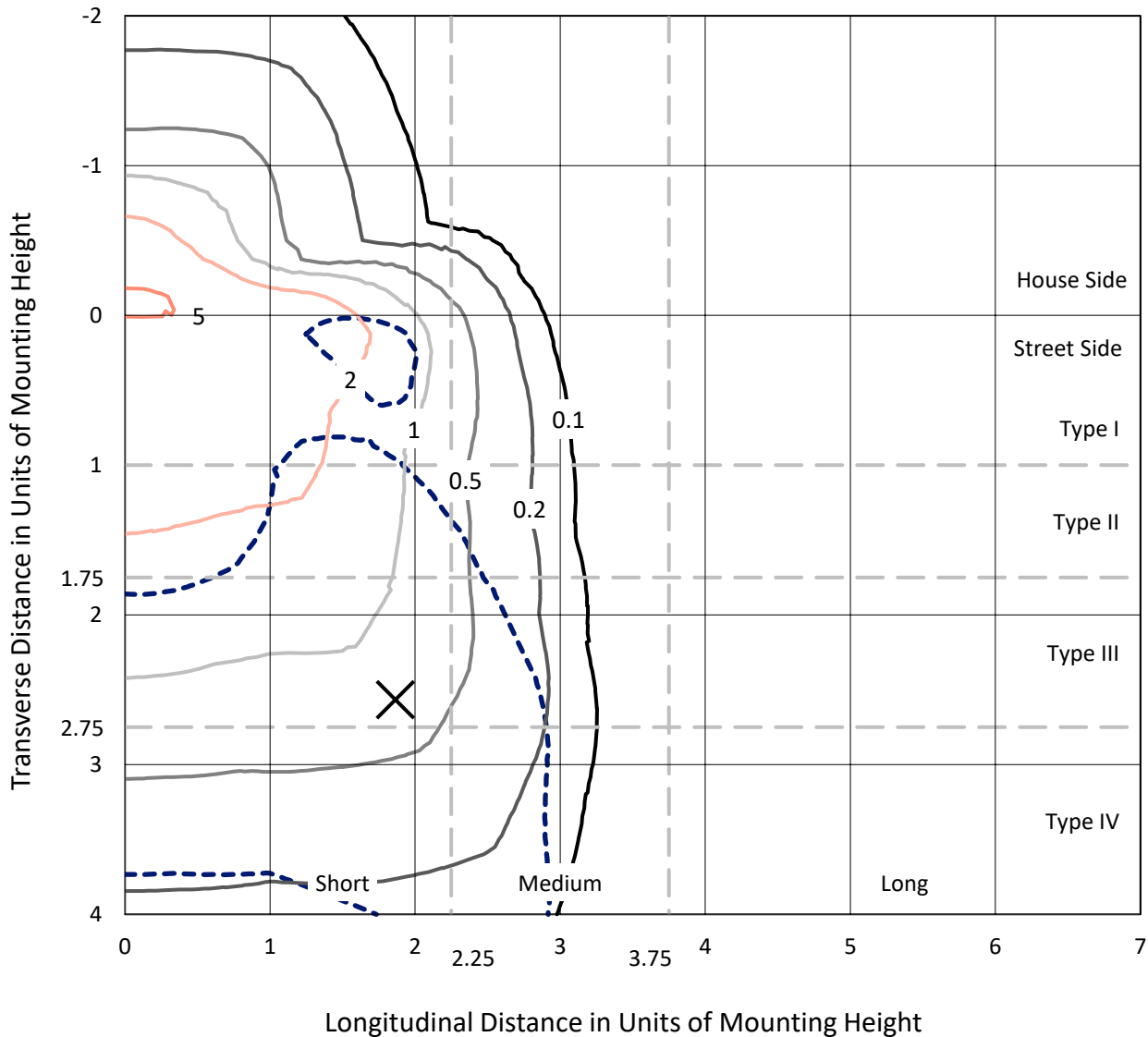
Lumens per Lamp: N/A  
Luminaire Lumens: 21728.7 lumens  
Efficiency: N/A  
Efficacy: 136.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 159.2  
Input Voltage (V): 120  
Input Current (Ain): 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

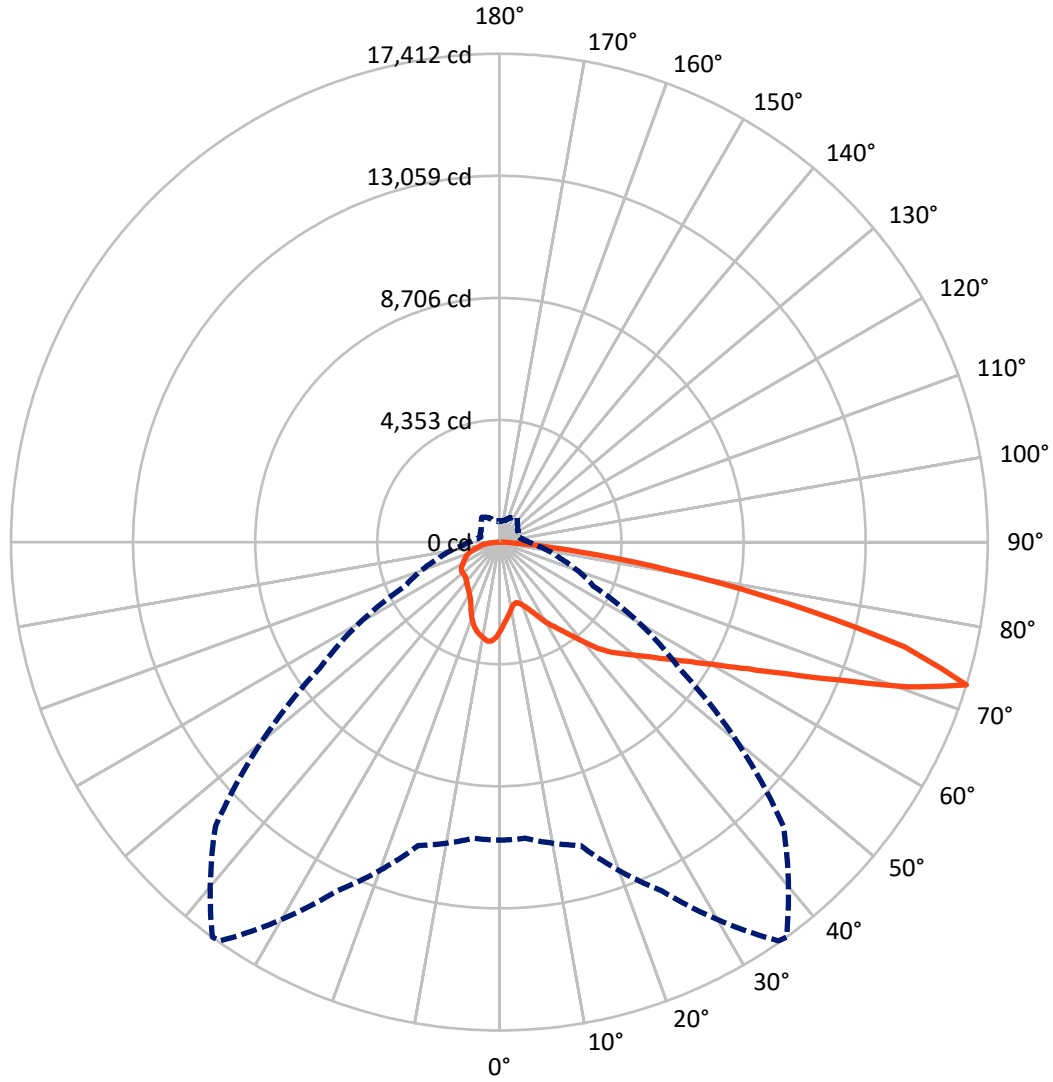
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5009.4   | 0.0    | 5009.4  |
|                    | % Fixture | 23.1     | 0.0    | 23.1    |
| <b>Street Side</b> | Lumens    | 16719.3  | 0.0    | 16719.3 |
|                    | % Fixture | 76.9     | 0.0    | 76.9    |
| <b>Total</b>       | Lumens    | 21728.7  | 0.0    | 21728.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 297.2   | 1.4       |
| 10°-20°   | 838.7   | 3.9       |
| 20°-30°   | 1388.9  | 6.4       |
| 30°-40°   | 2080.1  | 9.6       |
| 40°-50°   | 3034.6  | 14.0      |
| 50°-60°   | 4319.2  | 19.9      |
| 60°-70°   | 5457.0  | 25.1      |
| 70°-80°   | 3888.6  | 17.9      |
| 80°-90°   | 424.5   | 2.0       |
| 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°    | 21728.7 | 100.0     |
| 0°-180°   | 21728.7 | 100.0     |

**Coefficient of Utilization**



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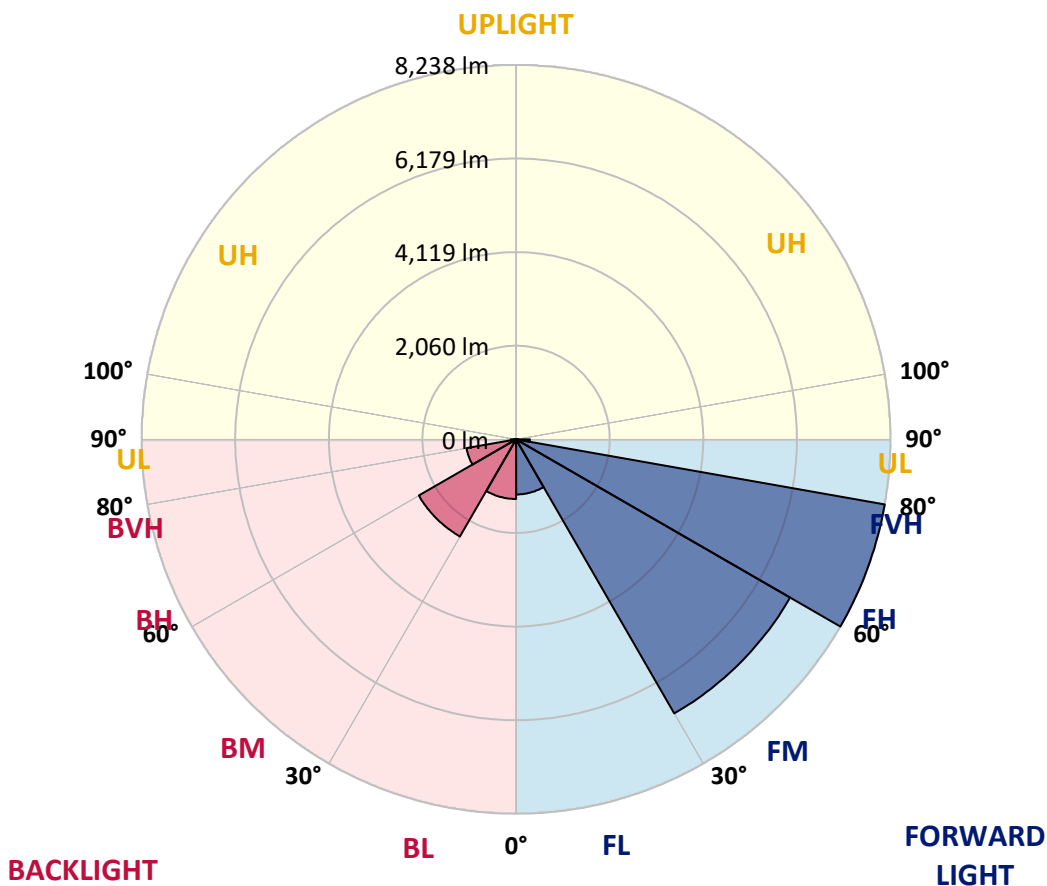
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1213.1 | 5.6       |                         |      |          |
| FM (30°-60°)   | 6963.5 | 32.0      |                         |      |          |
| FH (60°-80°)   | 8238.1 | 37.9      |                         |      | G4/12000 |
| FVH (80°-90°)  | 304.7  | 1.4       |                         |      | G3/500   |
| BL (0°-30°)    | 1311.8 | 6.0       | B3/2500                 |      |          |
| BM (30°-60°)   | 2470.3 | 11.4      | B2/2500                 |      |          |
| BH (60°-80°)   | 1107.5 | 5.1       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 119.8  | 0.6       |                         |      | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 36°     | 45°     | 55°     | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0°    | 3180.1  | 3180.1  | 3180.1  | 3180.1  | 3180.1  | 3180.1  | 3180.1  | 3180.1  | 3180.1 | 3180.1 | 3180.1 |
| 2.5°  | 2901.1  | 2896.3  | 2886.6  | 2915.6  | 2944.6  | 2941.4  | 2981.7  | 3020.4  | 3062.4 | 3105.9 | 3164.0 |
| 5°    | 2668.9  | 2665.7  | 2657.6  | 2701.1  | 2744.7  | 2743.1  | 2809.2  | 2872.1  | 2957.6 | 3051.1 | 3167.2 |
| 7.5°  | 2436.7  | 2428.6  | 2439.9  | 2494.7  | 2556.0  | 2562.5  | 2652.8  | 2756.0  | 2880.1 | 3020.4 | 3184.9 |
| 10°   | 2231.9  | 2230.3  | 2235.1  | 2296.4  | 2388.3  | 2394.7  | 2510.9  | 2654.4  | 2818.9 | 3005.9 | 3225.2 |
| 12.5° | 2178.7  | 2175.4  | 2162.5  | 2193.2  | 2262.5  | 2272.2  | 2399.6  | 2575.4  | 2776.9 | 3014.0 | 3280.1 |
| 15°   | 2265.7  | 2257.7  | 2212.5  | 2198.0  | 2231.9  | 2239.9  | 2348.0  | 2528.6  | 2752.7 | 3028.5 | 3349.4 |
| 17.5° | 2415.7  | 2410.9  | 2325.4  | 2265.7  | 2288.3  | 2294.8  | 2375.4  | 2520.5  | 2746.3 | 3057.5 | 3434.9 |
| 20°   | 2635.0  | 2614.1  | 2480.2  | 2389.9  | 2389.9  | 2399.6  | 2448.0  | 2556.0  | 2754.4 | 3093.0 | 3531.6 |
| 22.5° | 2925.3  | 2883.4  | 2694.7  | 2572.1  | 2539.9  | 2552.8  | 2573.7  | 2644.7  | 2788.2 | 3152.7 | 3652.6 |
| 25°   | 3251.0  | 3212.3  | 2988.2  | 2815.6  | 2770.5  | 2775.3  | 2757.6  | 2770.5  | 2862.4 | 3234.9 | 3802.6 |
| 27.5° | 3597.8  | 3572.0  | 3333.3  | 3114.0  | 3043.0  | 3043.0  | 2980.1  | 2949.5  | 2965.6 | 3328.5 | 3970.3 |
| 30°   | 3907.4  | 3871.9  | 3670.3  | 3430.0  | 3336.5  | 3336.5  | 3217.2  | 3151.1  | 3112.4 | 3443.0 | 4194.4 |
| 32.5° | 4070.3  | 4049.3  | 3915.4  | 3731.6  | 3617.1  | 3599.4  | 3496.2  | 3418.8  | 3328.5 | 3612.3 | 4497.6 |
| 35°   | 4283.1  | 4278.3  | 4197.7  | 4054.1  | 3909.0  | 3883.2  | 3812.2  | 3751.0  | 3594.5 | 3823.5 | 4900.8 |
| 37.5° | 4550.8  | 4542.8  | 4529.9  | 4444.4  | 4270.2  | 4265.4  | 4202.5  | 4128.3  | 3925.1 | 4128.3 | 5389.4 |
| 40°   | 4850.8  | 4836.3  | 4820.1  | 4818.5  | 4713.7  | 4696.0  | 4691.1  | 4607.3  | 4323.4 | 4496.0 | 5899.0 |
| 42.5° | 5263.6  | 5213.6  | 5062.0  | 5129.8  | 5207.2  | 5191.0  | 5252.3  | 5126.5  | 4820.1 | 4933.0 | 6381.1 |
| 45°   | 5771.6  | 5649.0  | 5349.1  | 5368.4  | 5563.5  | 5595.8  | 5808.7  | 5778.0  | 5366.8 | 5437.8 | 6889.1 |
| 47.5° | 6076.4  | 5969.9  | 5690.9  | 5674.8  | 5918.3  | 5958.6  | 6421.5  | 6479.5  | 5955.4 | 6045.7 | 7516.4 |
| 50°   | 6326.3  | 6252.1  | 6023.1  | 6045.7  | 6303.7  | 6344.1  | 7029.4  | 7153.6  | 6510.2 | 6668.2 | 8245.3 |
| 52.5° | 6627.9  | 6521.4  | 6344.1  | 6450.5  | 6766.6  | 6814.9  | 7705.1  | 7839.0  | 7010.1 | 7351.9 | 9000.0 |
| 55°   | 6797.2  | 6753.7  | 6756.9  | 6919.8  | 7316.5  | 7382.6  | 8413.1  | 8390.5  | 7468.1 | 7937.3 | 9567.7 |
| 57.5° | 7187.5  | 7171.3  | 7319.7  | 7381.0  | 7958.3  | 8043.8  | 9121.0  | 8927.5  | 7884.1 | 8390.5 | 9840.2 |
| 60°   | 7876.1  | 7835.7  | 7964.7  | 8058.3  | 8751.7  | 8872.7  | 9911.2  | 9453.2  | 8166.3 | 8727.5 | 9748.3 |
| 62.5° | 8843.6  | 8793.6  | 8798.5  | 8946.8  | 9814.4  | 9941.8  | 10790.1 | 9891.8  | 8253.4 | 8779.1 | 9166.1 |
| 65°   | 10046.6 | 9974.1  | 9891.8  | 10093.4 | 11225.5 | 11331.9 | 11746.3 | 10211.1 | 8045.4 | 8282.4 | 7950.2 |
| 67.5° | 11315.8 | 11256.1 | 11159.4 | 11581.9 | 13052.6 | 13117.1 | 12818.7 | 10183.7 | 7385.8 | 6953.6 | 5576.5 |
| 70°   | 11390.0 | 11404.5 | 11862.5 | 13391.2 | 15437.6 | 15453.8 | 13833.1 | 9632.2  | 5981.2 | 4507.3 | 2778.5 |
| 72.5° | 10625.6 | 10601.4 | 11198.1 | 13721.8 | 17356.7 | 17411.5 | 14312.0 | 7803.5  | 3696.1 | 2248.0 | 1303.0 |
| 75°   | 8630.8  | 8672.7  | 9300.0  | 12006.0 | 14876.4 | 14924.8 | 11667.3 | 4600.8  | 1756.1 | 1099.8 | 833.7  |
| 77.5° | 3715.5  | 3949.3  | 5186.2  | 8458.2  | 10654.6 | 10504.6 | 6013.5  | 1864.2  | 936.9  | 783.7  | 638.6  |
| 80°   | 1072.4  | 1164.3  | 1848.1  | 4021.9  | 6384.4  | 6271.5  | 2380.2  | 698.3   | 653.1  | 588.6  | 458.0  |
| 82.5° | 346.7   | 383.8   | 677.3   | 1601.3  | 2860.8  | 2857.6  | 903.1   | 412.8   | 427.3  | 399.9  | 295.1  |
| 85°   | 96.8    | 111.3   | 208.0   | 485.4   | 885.3   | 867.6   | 261.2   | 195.1   | 227.4  | 230.6  | 146.7  |
| 87.5° | 0.0     | 0.0     | 1.6     | 3.2     | 3.2     | 3.2     | 6.5     | 29.0    | 66.1   | 83.9   | 59.7   |
| 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°    | 3180.1 | 3180.1 | 3180.1 | 3180.1 | 3180.1 | 3180.1 | 3180.1 | 3180.1 | 3180.1 | 3180.1 | 3180.1 |
| 2.5°  | 3199.4 | 3194.6 | 3260.7 | 3312.3 | 3360.7 | 3393.0 | 3402.6 | 3409.1 | 3422.0 | 3428.4 | 3422.0 |
| 5°    | 3222.0 | 3246.2 | 3355.9 | 3436.5 | 3501.0 | 3539.7 | 3541.3 | 3538.1 | 3547.8 | 3539.7 | 3534.9 |
| 7.5°  | 3270.4 | 3317.2 | 3455.9 | 3541.3 | 3583.2 | 3584.9 | 3546.2 | 3501.0 | 3478.4 | 3459.1 | 3452.6 |
| 10°   | 3334.9 | 3404.2 | 3555.8 | 3612.3 | 3599.4 | 3539.7 | 3454.2 | 3383.3 | 3343.0 | 3313.9 | 3307.5 |
| 12.5° | 3423.6 | 3501.0 | 3644.5 | 3642.9 | 3562.3 | 3455.9 | 3355.9 | 3270.4 | 3212.3 | 3178.5 | 3167.2 |
| 15°   | 3507.5 | 3605.8 | 3709.0 | 3633.2 | 3505.8 | 3376.8 | 3247.8 | 3133.3 | 3055.9 | 3002.7 | 2993.0 |
| 17.5° | 3610.7 | 3715.5 | 3755.8 | 3602.6 | 3434.9 | 3268.8 | 3096.2 | 2946.3 | 2841.4 | 2778.5 | 2773.7 |
| 20°   | 3730.0 | 3823.5 | 3778.4 | 3549.4 | 3343.0 | 3125.3 | 2891.4 | 2723.7 | 2610.8 | 2549.6 | 2554.4 |
| 22.5° | 3868.7 | 3936.4 | 3784.8 | 3476.8 | 3215.6 | 2922.1 | 2660.8 | 2499.6 | 2423.8 | 2391.5 | 2393.1 |
| 25°   | 4017.0 | 4060.6 | 3773.5 | 3378.4 | 3020.4 | 2673.7 | 2423.8 | 2349.6 | 2343.1 | 2335.1 | 2338.3 |
| 27.5° | 4192.8 | 4183.1 | 3739.7 | 3239.8 | 2757.6 | 2385.1 | 2257.7 | 2277.0 | 2302.8 | 2299.6 | 2302.8 |
| 30°   | 4428.3 | 4336.3 | 3696.1 | 3047.9 | 2444.7 | 2143.2 | 2159.3 | 2214.1 | 2248.0 | 2251.2 | 2260.9 |
| 32.5° | 4697.6 | 4505.7 | 3626.8 | 2786.6 | 2146.4 | 2007.7 | 2067.4 | 2133.5 | 2173.8 | 2181.9 | 2194.8 |
| 35°   | 5018.5 | 4699.2 | 3504.2 | 2460.9 | 1931.9 | 1927.1 | 1981.9 | 2027.1 | 2070.6 | 2073.8 | 2073.8 |
| 37.5° | 5387.8 | 4892.7 | 3309.1 | 2101.2 | 1799.7 | 1857.7 | 1909.3 | 1919.0 | 1930.3 | 1920.6 | 1925.5 |
| 40°   | 5726.4 | 5079.8 | 3031.7 | 1773.9 | 1691.6 | 1796.5 | 1840.0 | 1807.8 | 1772.3 | 1748.1 | 1752.9 |
| 42.5° | 6010.2 | 5207.2 | 2664.1 | 1544.9 | 1582.0 | 1741.6 | 1775.5 | 1709.4 | 1640.0 | 1594.9 | 1601.3 |
| 45°   | 6329.5 | 5324.9 | 2231.9 | 1390.1 | 1488.5 | 1702.9 | 1725.5 | 1640.0 | 1551.3 | 1483.6 | 1473.9 |
| 47.5° | 6769.8 | 5565.2 | 1848.1 | 1282.0 | 1422.3 | 1682.0 | 1719.1 | 1602.9 | 1486.8 | 1385.2 | 1374.0 |
| 50°   | 7313.2 | 5905.4 | 1527.2 | 1211.1 | 1391.7 | 1670.7 | 1717.4 | 1562.6 | 1423.9 | 1304.6 | 1296.5 |
| 52.5° | 7906.7 | 6237.6 | 1290.1 | 1156.3 | 1361.1 | 1636.8 | 1709.4 | 1517.5 | 1357.8 | 1228.8 | 1219.1 |
| 55°   | 8301.8 | 6368.2 | 1130.4 | 1104.6 | 1311.1 | 1583.6 | 1677.1 | 1473.9 | 1257.8 | 1140.1 | 1125.6 |
| 57.5° | 8417.9 | 6200.5 | 1019.2 | 1057.9 | 1246.6 | 1509.4 | 1615.8 | 1382.0 | 1196.6 | 1103.0 | 1091.7 |
| 60°   | 8217.9 | 5778.0 | 949.8  | 1019.2 | 1175.6 | 1414.3 | 1509.4 | 1328.8 | 1148.2 | 1064.3 | 1056.3 |
| 62.5° | 7653.5 | 5126.5 | 896.6  | 978.9  | 1103.0 | 1314.3 | 1441.7 | 1264.3 | 1095.0 | 1028.9 | 1017.6 |
| 65°   | 6518.2 | 4204.1 | 853.1  | 936.9  | 1033.7 | 1219.1 | 1367.5 | 1199.8 | 1036.9 | 986.9  | 974.0  |
| 67.5° | 4558.9 | 2952.7 | 806.3  | 886.9  | 964.3  | 1127.2 | 1290.1 | 1140.1 | 977.2  | 940.2  | 927.3  |
| 70°   | 2228.6 | 1565.9 | 749.9  | 828.9  | 890.2  | 1033.7 | 1212.7 | 1067.6 | 898.2  | 877.3  | 859.5  |
| 72.5° | 1061.1 | 875.7  | 683.8  | 749.9  | 788.6  | 909.5  | 1083.7 | 962.7  | 804.7  | 759.5  | 728.9  |
| 75°   | 711.2  | 622.5  | 596.7  | 656.3  | 666.0  | 762.8  | 928.9  | 830.5  | 709.6  | 658.0  | 632.1  |
| 77.5° | 538.6  | 475.7  | 501.5  | 554.7  | 535.4  | 627.3  | 764.4  | 740.2  | 640.2  | 593.4  | 580.5  |
| 80°   | 379.0  | 346.7  | 398.3  | 430.6  | 416.1  | 533.8  | 688.6  | 633.8  | 527.3  | 475.7  | 466.0  |
| 82.5° | 238.7  | 232.2  | 293.5  | 298.3  | 303.2  | 422.5  | 566.0  | 498.3  | 409.6  | 337.0  | 312.8  |
| 85°   | 119.3  | 132.2  | 175.8  | 175.8  | 174.2  | 217.7  | 322.5  | 280.6  | 220.9  | 175.8  | 170.9  |
| 87.5° | 40.3   | 56.4   | 75.8   | 61.3   | 46.8   | 37.1   | 41.9   | 51.6   | 54.8   | 53.2   | 53.2   |
| 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)