

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: P631399

Luminaire Tested: GWS-SA1F-750-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631399  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-750-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

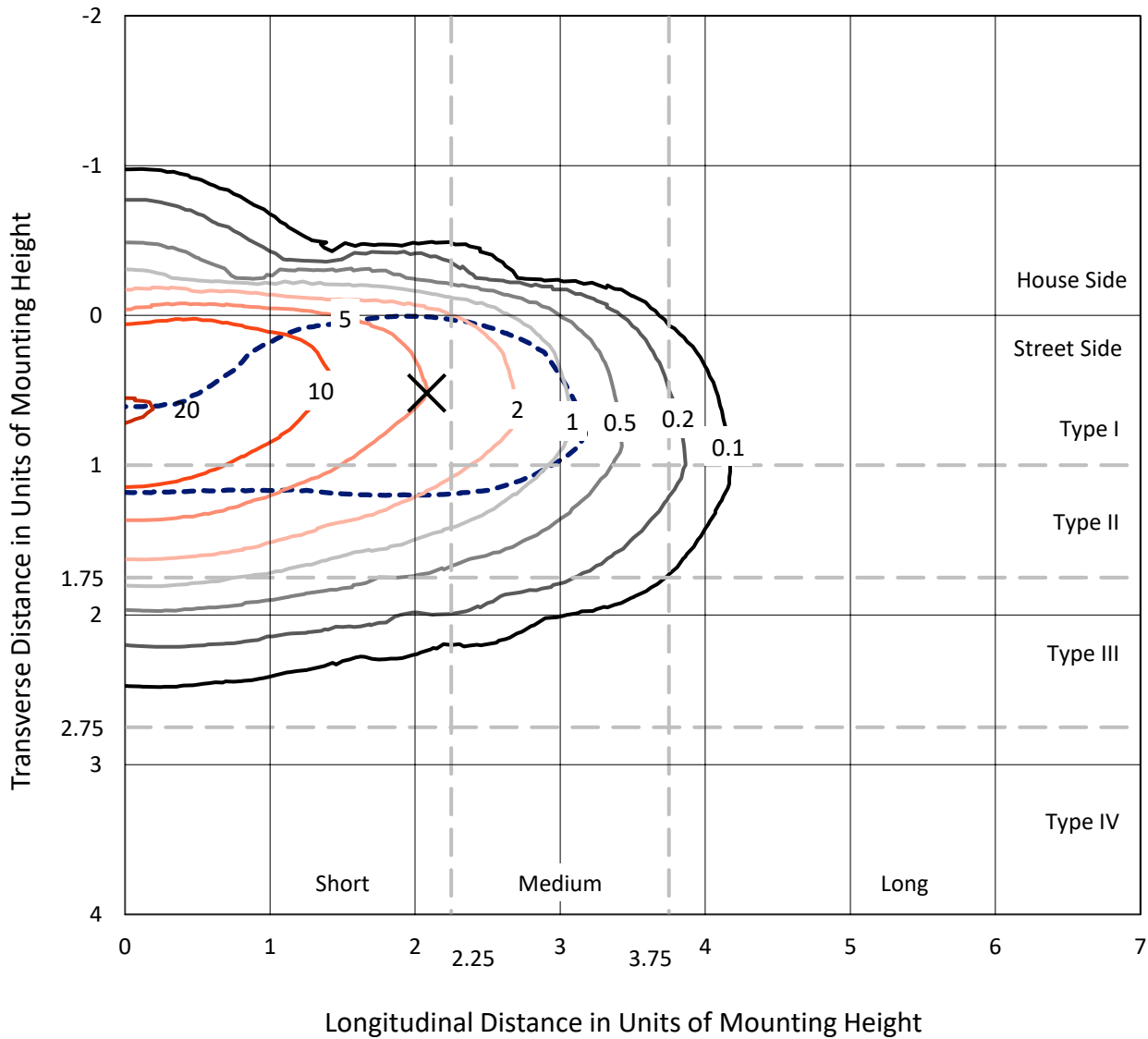
Lumens per Lamp: N/A  
Luminaire Lumens: 6950.2 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

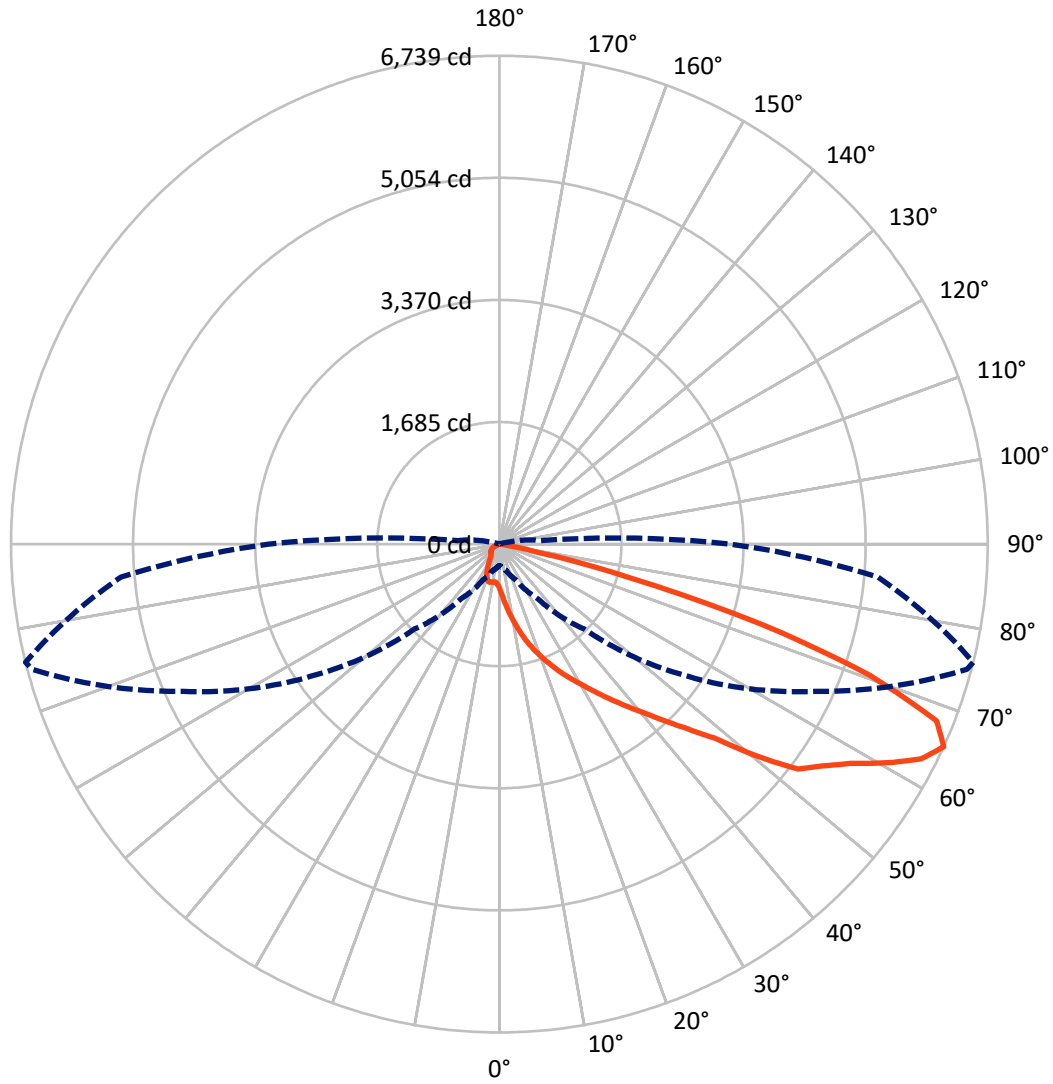
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 384.3    | 0.0    | 384.3  |
|                    | % Fixture | 5.5      | 0.0    | 5.5    |
| <b>Street Side</b> | Lumens    | 6565.9   | 0.0    | 6565.9 |
|                    | % Fixture | 94.5     | 0.0    | 94.5   |
| <b>Total</b>       | Lumens    | 6950.2   | 0.0    | 6950.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 74.9   | 1.1       |
| 10°-20°   | 284.1  | 4.1       |
| 20°-30°   | 579.5  | 8.3       |
| 30°-40°   | 1030.7 | 14.8      |
| 40°-50°   | 1523.6 | 21.9      |
| 50°-60°   | 1744.4 | 25.1      |
| 60°-70°   | 1330.9 | 19.1      |
| 70°-80°   | 372.8  | 5.4       |
| 80°-90°   | 9.4    | 0.1       |
| 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°    | 6950.2 | 100.0     |
| 0°-180°   | 6950.2 | 100.0     |

**Coefficient of Utilization**



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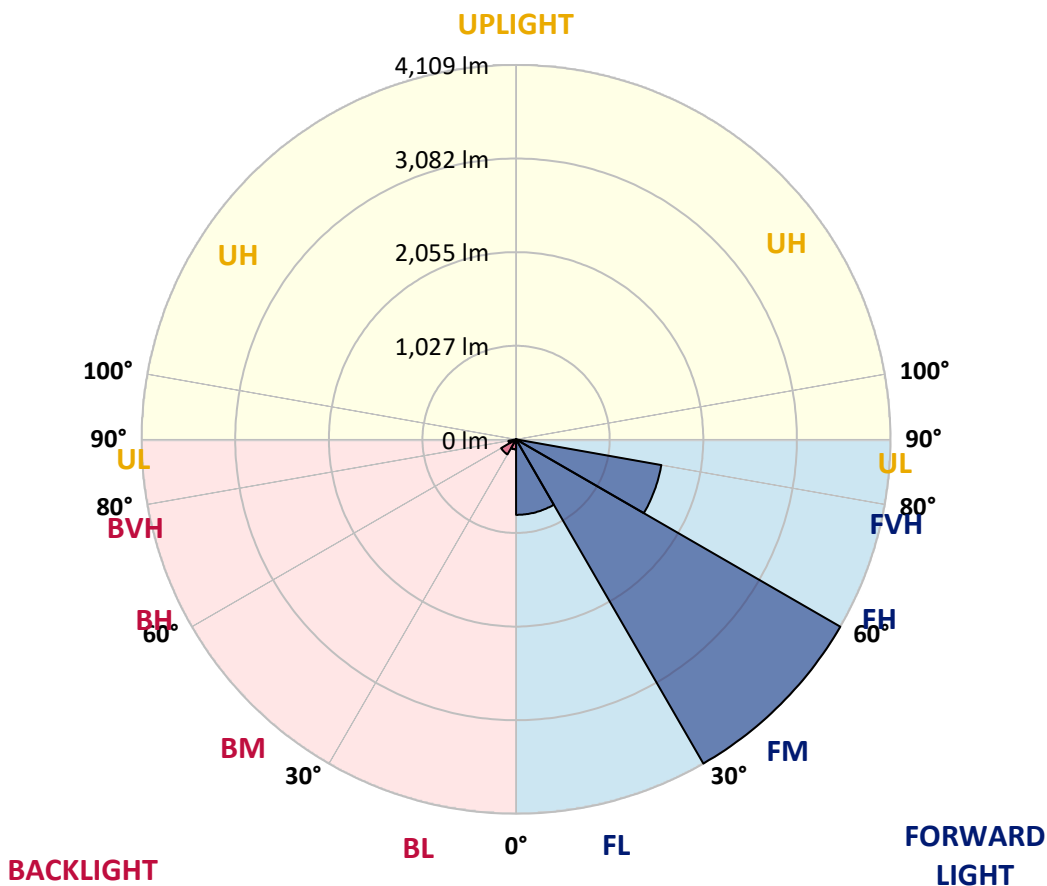
CATALOG NUMBER: GWS-SA1F-750-U-T2R-W-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 828.8  | 11.9      |                         |      |         |
| FM (30°-60°)   | 4109.1 | 59.1      |                         |      |         |
| FH (60°-80°)   | 1619.2 | 23.3      |                         |      | G1/1800 |
| FVH (80°-90°)  | 8.8    | 0.1       |                         |      | G0/10   |
| BL (0°-30°)    | 109.7  | 1.6       | B0/110                  |      |         |
| BM (30°-60°)   | 189.6  | 2.7       | B0/220                  |      |         |
| BH (60°-80°)   | 84.5   | 1.2       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.5    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 615.3  | 615.3  | 615.3  | 615.3  | 615.3  | 615.3  | 615.3  | 615.3  | 615.3  | 615.3  | 615.3  |
| 2.5°  | 948.3  | 962.6  | 951.4  | 932.9  | 897.1  | 862.5  | 818.0  | 756.8  | 708.0  | 701.8  | 656.1  |
| 5°    | 1280.7 | 1279.5 | 1255.4 | 1231.3 | 1193.6 | 1134.3 | 1044.7 | 931.1  | 821.7  | 812.4  | 709.9  |
| 7.5°  | 1478.4 | 1480.3 | 1466.7 | 1448.2 | 1411.1 | 1349.9 | 1256.6 | 1119.5 | 959.5  | 940.9  | 783.4  |
| 10°   | 1644.6 | 1644.0 | 1634.1 | 1625.5 | 1592.1 | 1551.3 | 1451.3 | 1300.5 | 1107.7 | 1078.7 | 865.6  |
| 12.5° | 1769.4 | 1773.8 | 1778.7 | 1787.3 | 1773.1 | 1733.0 | 1638.5 | 1474.1 | 1257.9 | 1225.7 | 959.5  |
| 15°   | 1868.3 | 1869.5 | 1888.1 | 1921.4 | 1933.2 | 1912.1 | 1826.3 | 1642.2 | 1406.2 | 1378.4 | 1067.6 |
| 17.5° | 1897.9 | 1900.4 | 1931.9 | 1993.1 | 2054.9 | 2066.6 | 2001.7 | 1811.4 | 1552.0 | 1522.3 | 1172.6 |
| 20°   | 1960.3 | 1965.9 | 1989.4 | 2043.1 | 2121.0 | 2184.0 | 2158.7 | 1982.6 | 1697.8 | 1658.8 | 1280.1 |
| 22.5° | 2156.8 | 2159.9 | 2151.9 | 2158.7 | 2198.8 | 2271.7 | 2287.2 | 2148.2 | 1847.3 | 1805.9 | 1396.3 |
| 25°   | 2494.7 | 2496.0 | 2439.8 | 2386.6 | 2356.4 | 2369.9 | 2403.9 | 2300.8 | 1995.6 | 1954.8 | 1504.4 |
| 27.5° | 2845.7 | 2850.0 | 2782.6 | 2692.4 | 2584.3 | 2522.5 | 2512.7 | 2440.4 | 2145.1 | 2100.0 | 1611.3 |
| 30°   | 3176.2 | 3176.2 | 3105.2 | 2995.2 | 2850.6 | 2730.1 | 2659.1 | 2581.2 | 2305.1 | 2255.7 | 1720.6 |
| 32.5° | 3473.4 | 3470.9 | 3380.1 | 3260.8 | 3118.1 | 2985.9 | 2836.4 | 2728.3 | 2483.0 | 2428.0 | 1846.7 |
| 35°   | 3718.6 | 3712.5 | 3609.3 | 3495.0 | 3342.4 | 3244.2 | 3077.3 | 2886.4 | 2675.8 | 2620.8 | 1976.4 |
| 37.5° | 3904.0 | 3897.2 | 3802.7 | 3681.6 | 3540.1 | 3476.5 | 3336.8 | 3076.1 | 2879.0 | 2829.0 | 2120.3 |
| 40°   | 4004.7 | 3991.1 | 3925.6 | 3835.4 | 3716.8 | 3661.2 | 3603.1 | 3311.5 | 3118.1 | 3055.7 | 2290.2 |
| 42.5° | 4034.3 | 4018.3 | 3975.0 | 3933.0 | 3861.4 | 3817.5 | 3879.9 | 3577.2 | 3380.7 | 3326.9 | 2484.2 |
| 45°   | 3946.6 | 3937.4 | 3933.6 | 3963.9 | 3976.9 | 3989.2 | 4143.1 | 3871.2 | 3670.5 | 3629.7 | 2728.3 |
| 47.5° | 3735.3 | 3732.9 | 3765.6 | 3891.6 | 4028.8 | 4159.1 | 4429.1 | 4233.9 | 4046.1 | 4002.2 | 3069.3 |
| 50°   | 3344.9 | 3370.2 | 3461.6 | 3682.8 | 3957.1 | 4255.5 | 4696.6 | 4736.8 | 4654.0 | 4589.8 | 3514.1 |
| 52.5° | 2734.5 | 2783.3 | 2988.4 | 3324.5 | 3718.6 | 4228.3 | 4820.2 | 5139.6 | 5224.3 | 5157.5 | 3832.9 |
| 55°   | 2145.7 | 2191.4 | 2374.3 | 2800.6 | 3326.3 | 4021.4 | 4825.8 | 5278.6 | 5463.4 | 5401.6 | 4048.6 |
| 57.5° | 1598.3 | 1640.3 | 1806.5 | 2214.3 | 2792.5 | 3614.2 | 4693.6 | 5355.9 | 5746.9 | 5707.4 | 4389.0 |
| 60°   | 1044.7 | 1086.1 | 1236.3 | 1592.7 | 2166.1 | 3021.1 | 4368.0 | 5339.8 | 6133.1 | 6129.4 | 4807.2 |
| 62.5° | 579.5  | 612.3  | 721.0  | 999.0  | 1511.8 | 2339.7 | 3856.4 | 5178.5 | 6506.9 | 6530.3 | 5152.0 |
| 65°   | 296.6  | 317.6  | 383.7  | 549.2  | 915.0  | 1658.8 | 3183.6 | 4809.1 | 6679.8 | 6739.2 | 5242.8 |
| 67.5° | 194.0  | 200.8  | 216.9  | 285.4  | 489.9  | 1043.5 | 2395.9 | 4216.6 | 6436.4 | 6505.6 | 4938.2 |
| 70°   | 157.5  | 163.1  | 172.4  | 190.3  | 252.7  | 554.2  | 1573.6 | 3367.7 | 5378.1 | 5425.1 | 3932.4 |
| 72.5° | 115.5  | 122.9  | 140.9  | 152.6  | 182.3  | 304.0  | 818.6  | 2210.6 | 3693.3 | 3776.1 | 2471.3 |
| 75°   | 85.3   | 89.6   | 104.4  | 120.5  | 148.9  | 192.1  | 313.2  | 1162.1 | 1907.2 | 1859.0 | 1037.9 |
| 77.5° | 51.3   | 54.4   | 66.7   | 77.2   | 106.3  | 119.9  | 109.4  | 429.4  | 580.1  | 545.5  | 250.8  |
| 80°   | 25.3   | 28.4   | 43.9   | 58.1   | 68.0   | 48.2   | 45.7   | 119.9  | 129.1  | 129.1  | 63.0   |
| 82.5° | 8.6    | 11.1   | 23.5   | 38.3   | 33.4   | 18.5   | 21.6   | 30.9   | 34.6   | 36.5   | 18.5   |
| 85°   | 0.0    | 0.0    | 5.6    | 11.1   | 4.9    | 2.5    | 5.6    | 6.8    | 8.6    | 9.3    | 6.2    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6    | 1.9    | 2.5    | 2.5    |
| 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°    | 615.3  | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 |
| 2.5°  | 631.4  | 602.4 | 558.5 | 519.0 | 488.7 | 460.3 | 438.7 | 421.4 | 418.3 | 408.4 | 409.6 |
| 5°    | 659.8  | 607.3 | 526.4 | 464.0 | 420.1 | 390.5 | 365.7 | 347.2 | 339.2 | 331.2 | 325.0 |
| 7.5°  | 703.7  | 627.7 | 514.0 | 438.0 | 386.8 | 341.0 | 302.7 | 271.8 | 257.0 | 247.7 | 241.6 |
| 10°   | 757.4  | 656.1 | 514.6 | 422.6 | 346.6 | 276.8 | 224.3 | 190.3 | 174.2 | 169.3 | 168.7 |
| 12.5° | 821.7  | 692.0 | 519.6 | 397.3 | 288.5 | 205.7 | 166.2 | 150.7 | 145.8 | 141.5 | 141.5 |
| 15°   | 889.7  | 732.1 | 519.6 | 350.9 | 219.9 | 160.6 | 144.0 | 134.1 | 127.9 | 125.4 | 124.2 |
| 17.5° | 961.3  | 769.8 | 507.2 | 287.3 | 168.7 | 141.5 | 127.9 | 118.6 | 113.7 | 110.0 | 108.7 |
| 20°   | 1037.9 | 805.6 | 476.3 | 219.9 | 144.6 | 126.7 | 113.7 | 104.4 | 99.5  | 95.8  | 95.8  |
| 22.5° | 1115.8 | 839.0 | 426.3 | 169.3 | 127.9 | 112.4 | 100.1 | 91.4  | 86.5  | 82.8  | 82.8  |
| 25°   | 1188.1 | 861.2 | 362.0 | 139.6 | 115.5 | 100.1 | 89.0  | 80.3  | 74.8  | 72.3  | 71.0  |
| 27.5° | 1255.4 | 875.4 | 291.0 | 122.9 | 103.8 | 89.6  | 77.8  | 69.8  | 65.5  | 63.6  | 62.4  |
| 30°   | 1325.2 | 879.2 | 222.4 | 111.8 | 93.9  | 79.1  | 68.0  | 61.8  | 58.1  | 55.6  | 55.6  |
| 32.5° | 1393.2 | 874.8 | 169.9 | 102.6 | 85.3  | 69.8  | 60.5  | 55.0  | 51.9  | 50.0  | 49.4  |
| 35°   | 1462.4 | 855.1 | 137.8 | 94.5  | 76.6  | 61.2  | 53.8  | 49.4  | 47.6  | 45.1  | 45.1  |
| 37.5° | 1537.7 | 828.5 | 119.9 | 86.5  | 68.0  | 55.0  | 48.2  | 45.1  | 42.6  | 40.8  | 40.2  |
| 40°   | 1631.7 | 797.6 | 110.0 | 79.7  | 59.9  | 49.4  | 43.2  | 40.2  | 38.3  | 36.5  | 35.8  |
| 42.5° | 1742.9 | 767.3 | 105.0 | 72.3  | 53.8  | 43.9  | 38.9  | 35.2  | 33.4  | 30.9  | 30.3  |
| 45°   | 1900.4 | 760.5 | 99.5  | 64.3  | 48.2  | 39.5  | 34.0  | 30.3  | 27.8  | 25.9  | 25.3  |
| 47.5° | 2153.7 | 779.7 | 90.2  | 55.6  | 42.6  | 34.6  | 29.0  | 25.9  | 22.9  | 21.0  | 19.8  |
| 50°   | 2405.2 | 774.7 | 80.9  | 48.2  | 37.7  | 29.7  | 24.7  | 21.6  | 18.5  | 16.7  | 16.1  |
| 52.5° | 2542.3 | 751.3 | 72.3  | 42.6  | 32.7  | 25.3  | 21.0  | 17.3  | 15.4  | 13.6  | 13.0  |
| 55°   | 2666.5 | 742.0 | 63.6  | 37.1  | 27.8  | 22.2  | 17.3  | 14.2  | 13.0  | 11.1  | 10.5  |
| 57.5° | 2909.9 | 763.6 | 56.2  | 32.1  | 24.1  | 19.2  | 14.8  | 11.7  | 10.5  | 8.6   | 8.0   |
| 60°   | 3164.5 | 766.1 | 48.2  | 27.8  | 21.0  | 16.1  | 11.7  | 9.3   | 8.0   | 6.2   | 5.6   |
| 62.5° | 3297.3 | 703.7 | 39.5  | 23.5  | 17.3  | 13.6  | 9.9   | 7.4   | 6.2   | 3.7   | 3.7   |
| 65°   | 3186.1 | 569.0 | 33.4  | 19.2  | 13.6  | 10.5  | 7.4   | 5.6   | 3.7   | 1.9   | 0.6   |
| 67.5° | 2819.7 | 404.7 | 27.8  | 15.4  | 9.9   | 7.4   | 5.6   | 3.7   | 0.6   | 0.0   | 0.0   |
| 70°   | 2064.7 | 231.1 | 21.6  | 11.1  | 7.4   | 4.9   | 3.7   | 1.9   | 0.0   | 0.0   | 0.0   |
| 72.5° | 1269.0 | 123.6 | 16.1  | 7.4   | 5.6   | 3.7   | 3.1   | 1.2   | 0.0   | 0.0   | 0.0   |
| 75°   | 481.3  | 59.3  | 9.9   | 4.9   | 4.3   | 3.1   | 1.9   | 0.6   | 0.0   | 0.0   | 0.0   |
| 77.5° | 130.4  | 29.0  | 5.6   | 3.7   | 3.1   | 1.9   | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 34.0   | 13.6  | 3.7   | 2.5   | 1.9   | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 11.7   | 6.2   | 1.9   | 1.9   | 1.2   | 0.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 4.9    | 2.5   | 1.2   | 1.2   | 0.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 1.9    | 0.6   | 0.6   | 0.6   | 0.6   | 0.0   | 0.0   | 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)