

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: P631344

Luminaire Tested: GWS-SA1F-740-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631344  
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-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

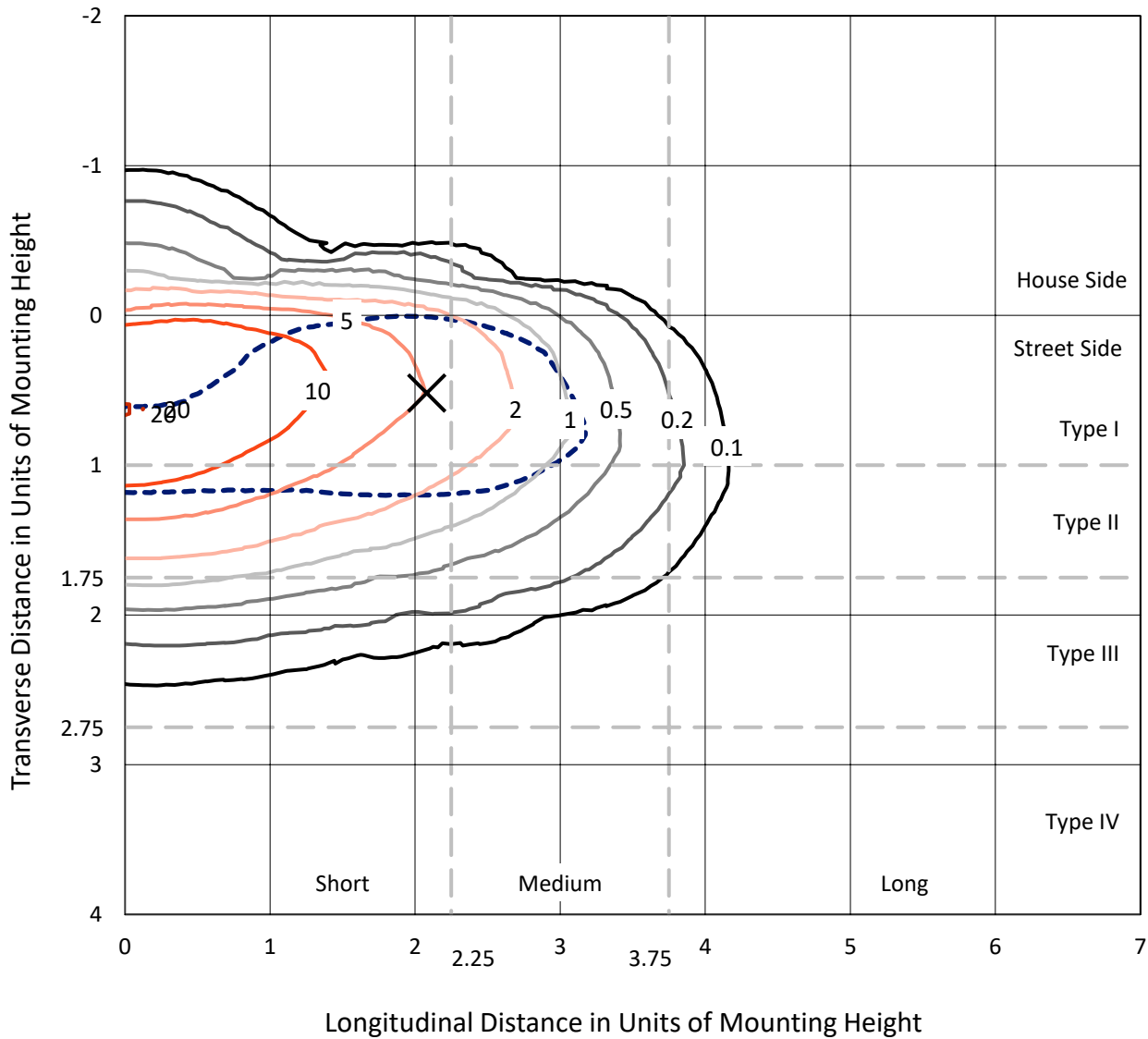
Lumens per Lamp: N/A  
Luminaire Lumens: 6794.5 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

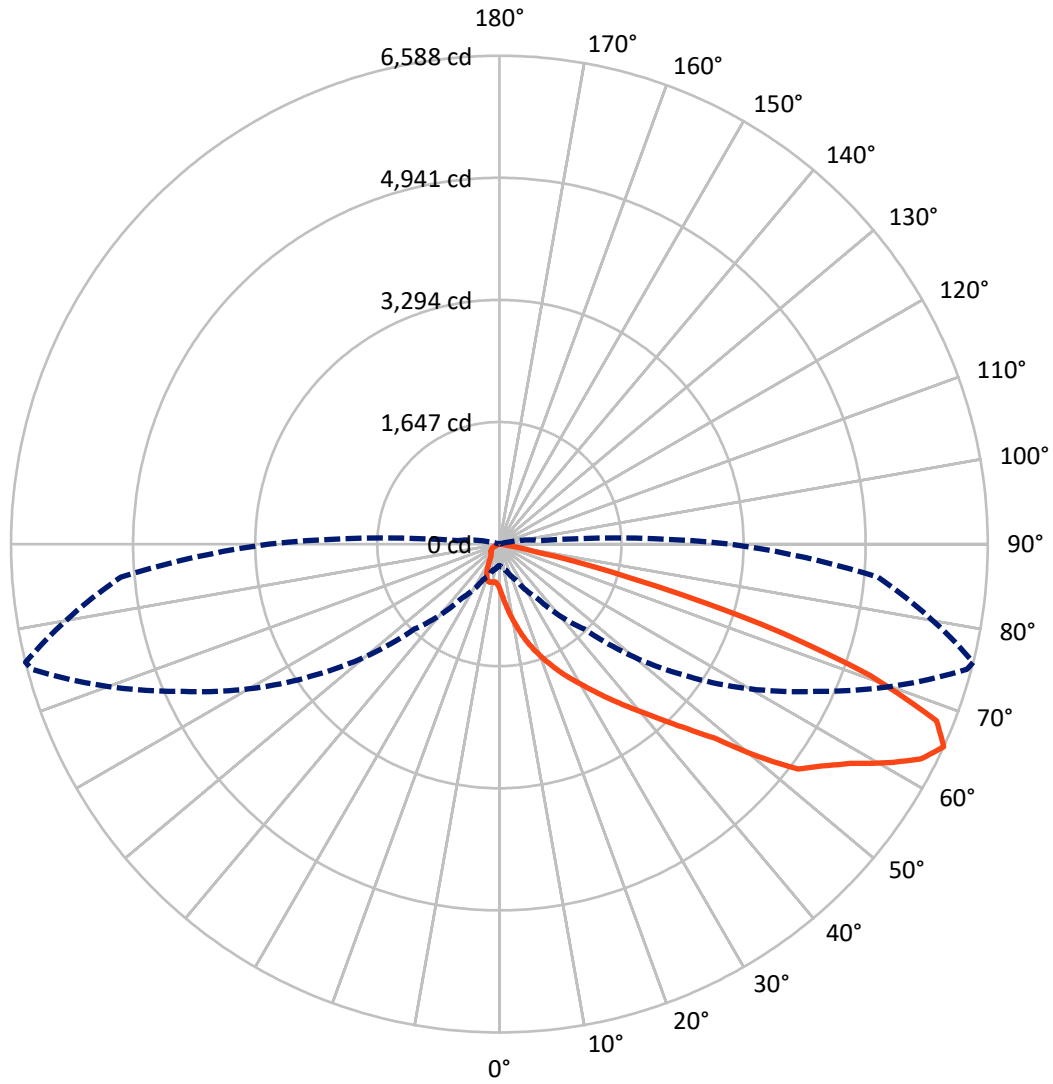
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.4 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    | 375.7    | 0.0    | 375.7  |
|                    | % Fixture | 5.5      | 0.0    | 5.5    |
| <b>Street Side</b> | Lumens    | 6418.8   | 0.0    | 6418.8 |
|                    | % Fixture | 94.5     | 0.0    | 94.5   |
| <b>Total</b>       | Lumens    | 6794.5   | 0.0    | 6794.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 73.2   | 1.1       |
| 10°-20°   | 277.7  | 4.1       |
| 20°-30°   | 566.5  | 8.3       |
| 30°-40°   | 1007.6 | 14.8      |
| 40°-50°   | 1489.5 | 21.9      |
| 50°-60°   | 1705.3 | 25.1      |
| 60°-70°   | 1301.1 | 19.1      |
| 70°-80°   | 364.5  | 5.4       |
| 80°-90°   | 9.2    | 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°    | 6794.5 | 100.0     |
| 0°-180°   | 6794.5 | 100.0     |

**Coefficient of Utilization**



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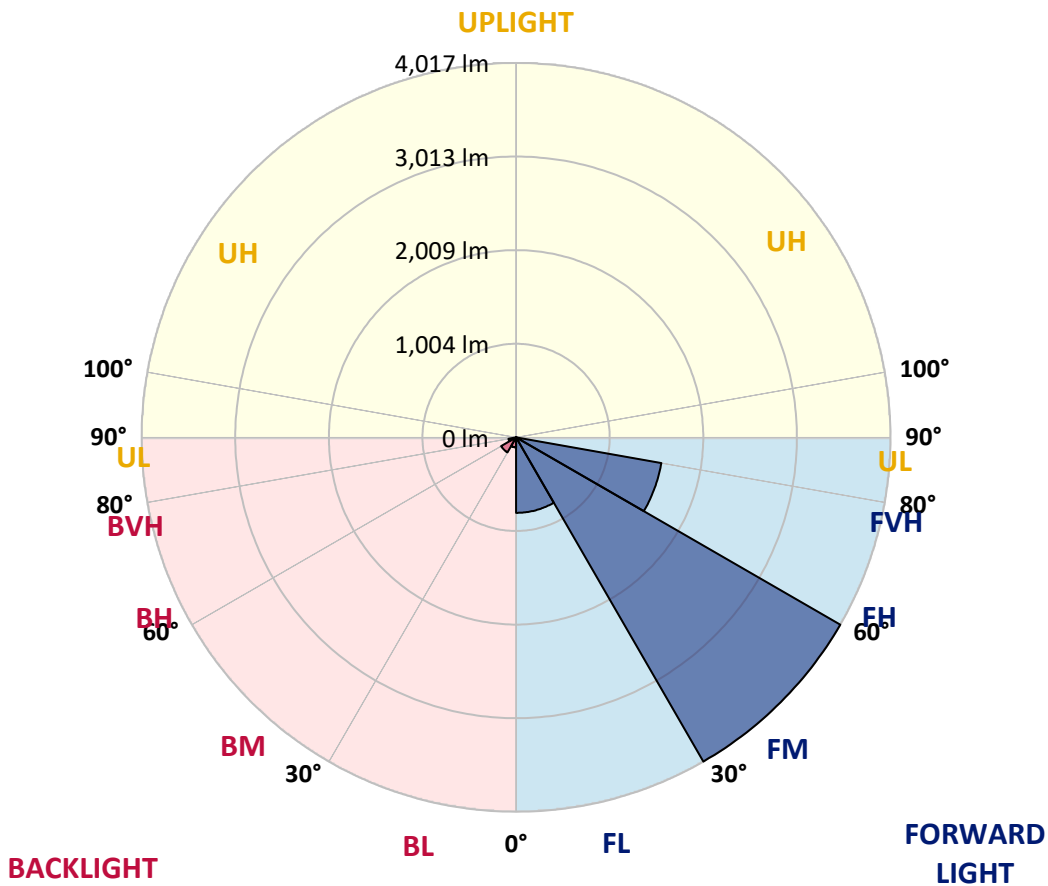
CATALOG NUMBER: GWS-SA1F-740-U-T2R-W-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 810.2  | 11.9      |                         |      |         |
| FM (30°-60°)   | 4017.0 | 59.1      |                         |      |         |
| FH (60°-80°)   | 1583.0 | 23.3      |                         |      | G1/1800 |
| FVH (80°-90°)  | 8.6    | 0.1       |                         |      | G0/10   |
| BL (0°-30°)    | 107.2  | 1.6       | B0/110                  |      |         |
| BM (30°-60°)   | 185.4  | 2.7       | B0/220                  |      |         |
| BH (60°-80°)   | 82.6   | 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°    | 601.6  | 601.6  | 601.6  | 601.6  | 601.6  | 601.6  | 601.6  | 601.6  | 601.6  | 601.6  | 601.6  |
| 2.5°  | 927.1  | 941.0  | 930.1  | 912.0  | 877.0  | 843.2  | 799.7  | 739.9  | 692.2  | 686.1  | 641.4  |
| 5°    | 1252.0 | 1250.8 | 1227.3 | 1203.7 | 1166.9 | 1108.9 | 1021.3 | 910.2  | 803.3  | 794.2  | 694.0  |
| 7.5°  | 1445.3 | 1447.1 | 1433.8 | 1415.7 | 1379.5 | 1319.7 | 1228.5 | 1094.4 | 938.0  | 919.9  | 765.8  |
| 10°   | 1607.8 | 1607.2 | 1597.5 | 1589.1 | 1556.4 | 1516.6 | 1418.7 | 1271.4 | 1082.9 | 1054.5 | 846.2  |
| 12.5° | 1729.8 | 1734.0 | 1738.8 | 1747.3 | 1733.4 | 1694.2 | 1601.7 | 1441.1 | 1229.7 | 1198.3 | 938.0  |
| 15°   | 1826.4 | 1827.6 | 1845.8 | 1878.4 | 1889.8 | 1869.3 | 1785.4 | 1605.4 | 1374.7 | 1347.5 | 1043.7 |
| 17.5° | 1855.4 | 1857.8 | 1888.6 | 1948.4 | 2008.8 | 2020.3 | 1956.9 | 1770.9 | 1517.2 | 1488.2 | 1146.3 |
| 20°   | 1916.4 | 1921.9 | 1944.8 | 1997.4 | 2073.5 | 2135.1 | 2110.3 | 1938.2 | 1659.7 | 1621.7 | 1251.4 |
| 22.5° | 2108.5 | 2111.5 | 2103.7 | 2110.3 | 2149.6 | 2220.8 | 2235.9 | 2100.0 | 1805.9 | 1765.4 | 1365.0 |
| 25°   | 2438.9 | 2440.1 | 2385.1 | 2333.2 | 2303.6 | 2316.9 | 2350.1 | 2249.2 | 1950.8 | 1911.0 | 1470.7 |
| 27.5° | 2781.9 | 2786.1 | 2720.3 | 2632.1 | 2526.4 | 2466.0 | 2456.4 | 2385.7 | 2097.0 | 2052.9 | 1575.2 |
| 30°   | 3105.0 | 3105.0 | 3035.6 | 2928.1 | 2786.7 | 2669.0 | 2599.5 | 2523.4 | 2253.4 | 2205.1 | 1682.1 |
| 32.5° | 3395.6 | 3393.1 | 3304.4 | 3187.8 | 3048.3 | 2919.0 | 2772.9 | 2667.2 | 2427.4 | 2373.6 | 1805.3 |
| 35°   | 3635.3 | 3629.3 | 3528.4 | 3416.7 | 3267.5 | 3171.5 | 3008.4 | 2821.8 | 2615.8 | 2562.1 | 1932.1 |
| 37.5° | 3816.5 | 3809.9 | 3717.5 | 3599.1 | 3460.8 | 3398.6 | 3262.1 | 3007.2 | 2814.5 | 2765.6 | 2072.8 |
| 40°   | 3915.0 | 3901.7 | 3837.7 | 3749.5 | 3633.5 | 3579.2 | 3522.4 | 3237.3 | 3048.3 | 2987.3 | 2238.9 |
| 42.5° | 3944.0 | 3928.3 | 3886.0 | 3844.9 | 3774.9 | 3732.0 | 3793.0 | 3497.0 | 3305.0 | 3252.4 | 2428.6 |
| 45°   | 3858.2 | 3849.1 | 3845.5 | 3875.1 | 3887.8 | 3899.9 | 4050.3 | 3784.5 | 3588.2 | 3548.4 | 2667.2 |
| 47.5° | 3651.6 | 3649.2 | 3681.2 | 3804.5 | 3938.5 | 4066.0 | 4329.9 | 4139.1 | 3955.4 | 3912.6 | 3000.6 |
| 50°   | 3269.9 | 3294.7 | 3384.1 | 3600.3 | 3868.5 | 4160.2 | 4591.4 | 4630.7 | 4549.8 | 4486.9 | 3435.4 |
| 52.5° | 2673.2 | 2720.9 | 2921.4 | 3250.0 | 3635.3 | 4133.6 | 4712.2 | 5024.5 | 5107.2 | 5042.0 | 3747.1 |
| 55°   | 2097.6 | 2142.3 | 2321.1 | 2737.8 | 3251.8 | 3931.3 | 4717.7 | 5160.4 | 5341.0 | 5280.6 | 3957.9 |
| 57.5° | 1562.5 | 1603.6 | 1766.0 | 2164.7 | 2730.0 | 3533.3 | 4588.4 | 5235.9 | 5618.2 | 5579.5 | 4290.7 |
| 60°   | 1021.3 | 1061.8 | 1208.6 | 1557.1 | 2117.5 | 2953.4 | 4270.1 | 5220.2 | 5995.7 | 5992.1 | 4699.5 |
| 62.5° | 566.5  | 598.5  | 704.8  | 976.6  | 1477.9 | 2287.3 | 3770.0 | 5062.5 | 6361.1 | 6384.0 | 5036.6 |
| 65°   | 289.9  | 310.4  | 375.1  | 536.9  | 894.5  | 1621.7 | 3112.3 | 4701.4 | 6530.2 | 6588.2 | 5125.3 |
| 67.5° | 189.6  | 196.3  | 212.0  | 279.0  | 479.0  | 1020.1 | 2342.2 | 4122.1 | 6292.2 | 6359.9 | 4827.6 |
| 70°   | 154.0  | 159.4  | 168.5  | 186.0  | 247.0  | 541.8  | 1538.3 | 3292.3 | 5257.6 | 5303.5 | 3844.3 |
| 72.5° | 112.9  | 120.2  | 137.7  | 149.2  | 178.2  | 297.2  | 800.3  | 2161.0 | 3610.6 | 3691.5 | 2415.9 |
| 75°   | 83.3   | 87.6   | 102.1  | 117.8  | 145.6  | 187.8  | 306.2  | 1136.1 | 1864.5 | 1817.4 | 1014.7 |
| 77.5° | 50.1   | 53.1   | 65.2   | 75.5   | 103.9  | 117.2  | 106.9  | 419.8  | 567.1  | 533.3  | 245.2  |
| 80°   | 24.8   | 27.8   | 42.9   | 56.8   | 66.4   | 47.1   | 44.7   | 117.2  | 126.2  | 126.2  | 61.6   |
| 82.5° | 8.5    | 10.9   | 23.0   | 37.4   | 32.6   | 18.1   | 21.1   | 30.2   | 33.8   | 35.6   | 18.1   |
| 85°   | 0.0    | 0.0    | 5.4    | 10.9   | 4.8    | 2.4    | 5.4    | 6.6    | 8.5    | 9.1    | 6.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6    | 1.8    | 2.4    | 2.4    |
| 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°    | 601.6  | 601.6 | 601.6 | 601.6 | 601.6 | 601.6 | 601.6 | 601.6 | 601.6 | 601.6 | 601.6 |
| 2.5°  | 617.3  | 588.9 | 546.0 | 507.3 | 477.7 | 450.0 | 428.8 | 411.9 | 408.9 | 399.2 | 400.4 |
| 5°    | 645.0  | 593.7 | 514.6 | 453.6 | 410.7 | 381.7 | 357.6 | 339.4 | 331.6 | 323.7 | 317.7 |
| 7.5°  | 687.9  | 613.6 | 502.5 | 428.2 | 378.1 | 333.4 | 295.9 | 265.7 | 251.3 | 242.2 | 236.2 |
| 10°   | 740.5  | 641.4 | 503.1 | 413.1 | 338.8 | 270.6 | 219.2 | 186.0 | 170.3 | 165.5 | 164.9 |
| 12.5° | 803.3  | 676.5 | 507.9 | 388.4 | 282.1 | 201.1 | 162.5 | 147.4 | 142.5 | 138.3 | 138.3 |
| 15°   | 869.7  | 715.7 | 507.9 | 343.1 | 215.0 | 157.0 | 140.7 | 131.1 | 125.0 | 122.6 | 121.4 |
| 17.5° | 939.8  | 752.6 | 495.9 | 280.8 | 164.9 | 138.3 | 125.0 | 116.0 | 111.1 | 107.5 | 106.3 |
| 20°   | 1014.7 | 787.6 | 465.7 | 215.0 | 141.3 | 123.8 | 111.1 | 102.1 | 97.2  | 93.6  | 93.6  |
| 22.5° | 1090.8 | 820.2 | 416.7 | 165.5 | 125.0 | 109.9 | 97.8  | 89.4  | 84.6  | 80.9  | 80.9  |
| 25°   | 1161.4 | 841.9 | 353.9 | 136.5 | 112.9 | 97.8  | 87.0  | 78.5  | 73.1  | 70.7  | 69.5  |
| 27.5° | 1227.3 | 855.8 | 284.5 | 120.2 | 101.5 | 87.6  | 76.1  | 68.2  | 64.0  | 62.2  | 61.0  |
| 30°   | 1295.5 | 859.5 | 217.4 | 109.3 | 91.8  | 77.3  | 66.4  | 60.4  | 56.8  | 54.4  | 54.4  |
| 32.5° | 1362.0 | 855.2 | 166.1 | 100.3 | 83.3  | 68.2  | 59.2  | 53.8  | 50.7  | 48.9  | 48.3  |
| 35°   | 1429.6 | 835.9 | 134.7 | 92.4  | 74.9  | 59.8  | 52.5  | 48.3  | 46.5  | 44.1  | 44.1  |
| 37.5° | 1503.3 | 809.9 | 117.2 | 84.6  | 66.4  | 53.8  | 47.1  | 44.1  | 41.7  | 39.9  | 39.3  |
| 40°   | 1595.1 | 779.7 | 107.5 | 77.9  | 58.6  | 48.3  | 42.3  | 39.3  | 37.4  | 35.6  | 35.0  |
| 42.5° | 1703.8 | 750.1 | 102.7 | 70.7  | 52.5  | 42.9  | 38.1  | 34.4  | 32.6  | 30.2  | 29.6  |
| 45°   | 1857.8 | 743.5 | 97.2  | 62.8  | 47.1  | 38.7  | 33.2  | 29.6  | 27.2  | 25.4  | 24.8  |
| 47.5° | 2105.5 | 762.2 | 88.2  | 54.4  | 41.7  | 33.8  | 28.4  | 25.4  | 22.3  | 20.5  | 19.3  |
| 50°   | 2351.3 | 757.4 | 79.1  | 47.1  | 36.8  | 29.0  | 24.2  | 21.1  | 18.1  | 16.3  | 15.7  |
| 52.5° | 2485.4 | 734.4 | 70.7  | 41.7  | 32.0  | 24.8  | 20.5  | 16.9  | 15.1  | 13.3  | 12.7  |
| 55°   | 2606.8 | 725.4 | 62.2  | 36.2  | 27.2  | 21.7  | 16.9  | 13.9  | 12.7  | 10.9  | 10.3  |
| 57.5° | 2844.7 | 746.5 | 55.0  | 31.4  | 23.6  | 18.7  | 14.5  | 11.5  | 10.3  | 8.5   | 7.9   |
| 60°   | 3093.6 | 748.9 | 47.1  | 27.2  | 20.5  | 15.7  | 11.5  | 9.1   | 7.9   | 6.0   | 5.4   |
| 62.5° | 3223.4 | 687.9 | 38.7  | 23.0  | 16.9  | 13.3  | 9.7   | 7.2   | 6.0   | 3.6   | 3.6   |
| 65°   | 3114.7 | 556.3 | 32.6  | 18.7  | 13.3  | 10.3  | 7.2   | 5.4   | 3.6   | 1.8   | 0.6   |
| 67.5° | 2756.6 | 395.6 | 27.2  | 15.1  | 9.7   | 7.2   | 5.4   | 3.6   | 0.6   | 0.0   | 0.0   |
| 70°   | 2018.5 | 225.9 | 21.1  | 10.9  | 7.2   | 4.8   | 3.6   | 1.8   | 0.0   | 0.0   | 0.0   |
| 72.5° | 1240.6 | 120.8 | 15.7  | 7.2   | 5.4   | 3.6   | 3.0   | 1.2   | 0.0   | 0.0   | 0.0   |
| 75°   | 470.5  | 58.0  | 9.7   | 4.8   | 4.2   | 3.0   | 1.8   | 0.6   | 0.0   | 0.0   | 0.0   |
| 77.5° | 127.4  | 28.4  | 5.4   | 3.6   | 3.0   | 1.8   | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 33.2   | 13.3  | 3.6   | 2.4   | 1.8   | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 11.5   | 6.0   | 1.8   | 1.8   | 1.2   | 0.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 4.8    | 2.4   | 1.2   | 1.2   | 0.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 1.8    | 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)