

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: P631403

Luminaire Tested: GWS-SA1F-750-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-750-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6326.9 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

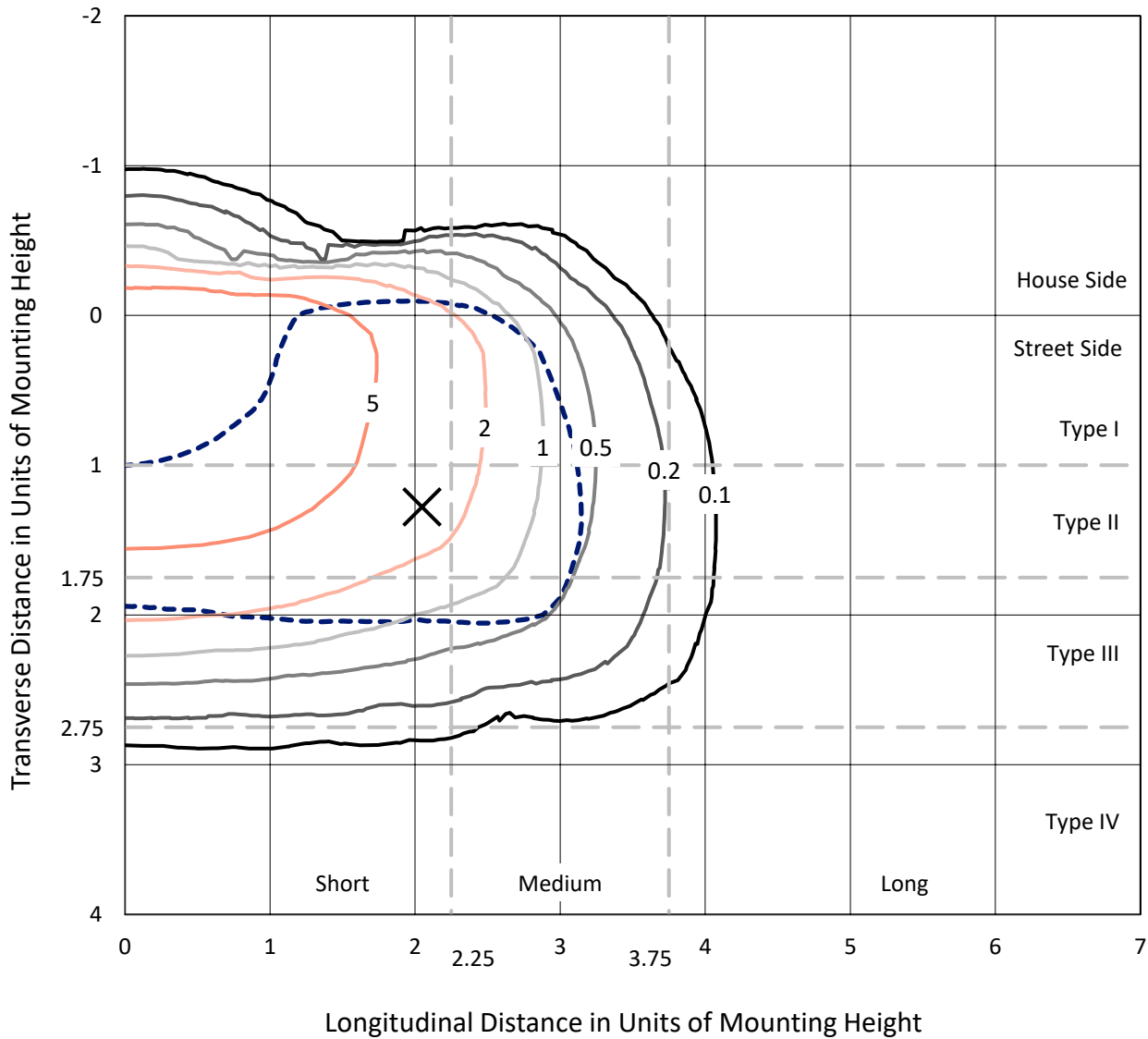
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

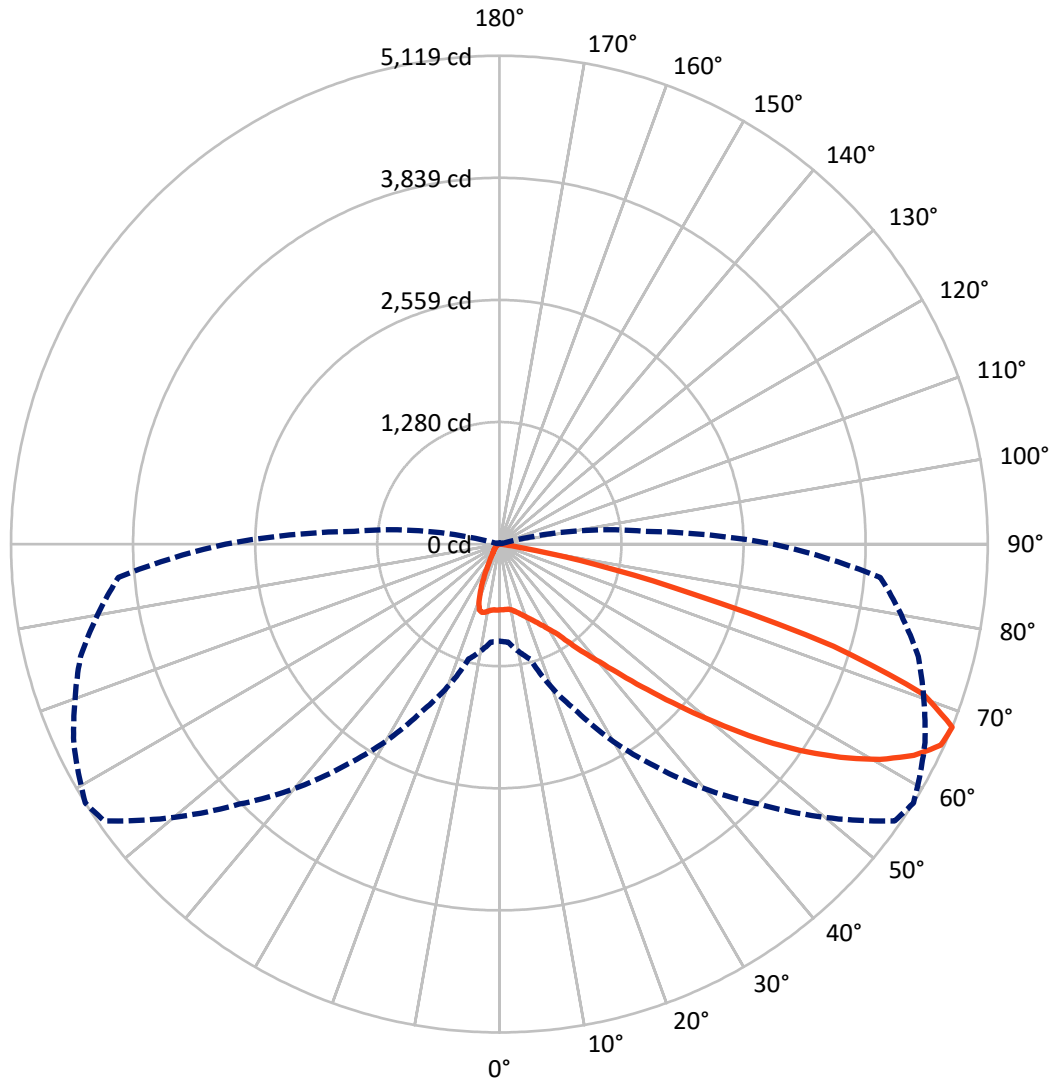
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 690.2 | 0.0 | 690.2 |
| | % Fixture | 10.9 | 0.0 | 10.9 |
| Street Side | Lumens | 5636.6 | 0.0 | 5636.6 |
| | % Fixture | 89.1 | 0.0 | 89.1 |
| Total | Lumens | 6326.9 | 0.0 | 6326.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 64.8 | 1.0 |
| 10°-20° | 181.8 | 2.9 |
| 20°-30° | 317.4 | 5.0 |
| 30°-40° | 566.9 | 9.0 |
| 40°-50° | 1036.1 | 16.4 |
| 50°-60° | 1723.1 | 27.2 |
| 60°-70° | 1871.6 | 29.6 |
| 70°-80° | 549.5 | 8.7 |
| 80°-90° | 15.6 | 0.2 |
| 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° | 6326.9 | 100.0 |
| 0°-180° | 6326.9 | 100.0 |

Coefficient of Utilization



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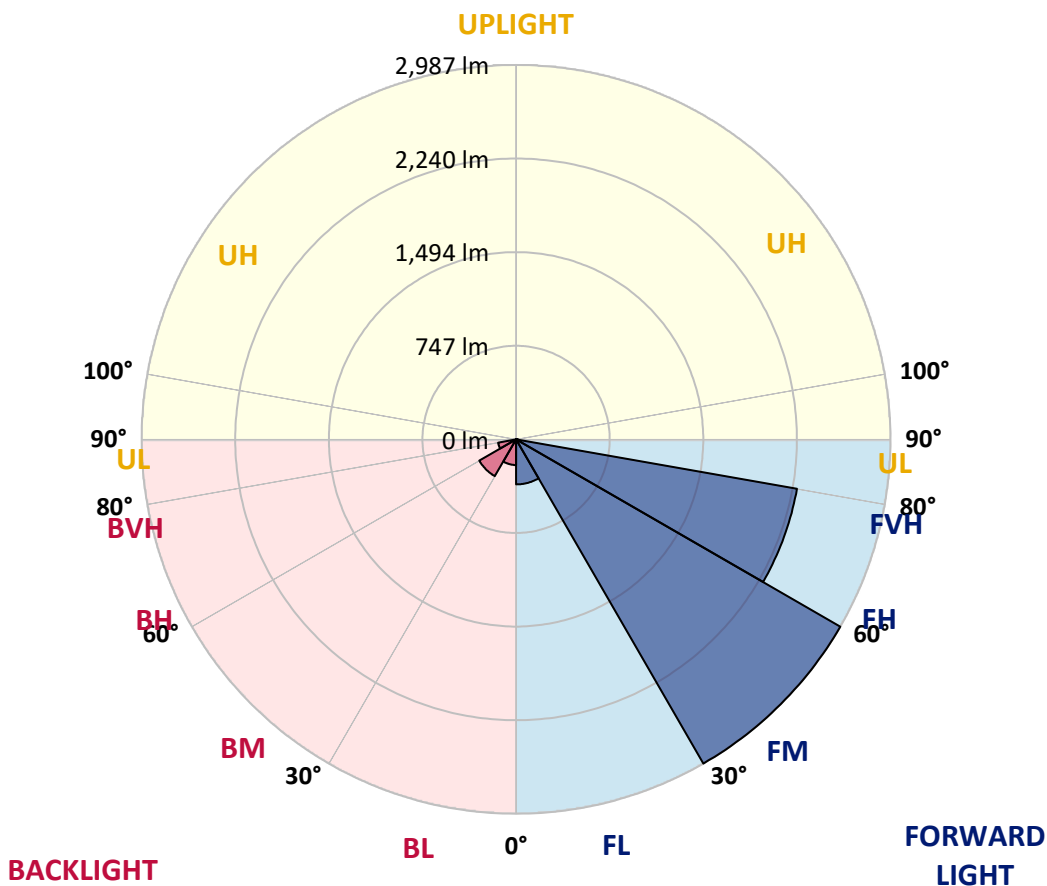
CATALOG NUMBER: GWS-SA1F-750-U-T3-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 359.3 | 5.7 | | | |
| FM (30°-60°) | 2987.1 | 47.2 | | | |
| FH (60°-80°) | 2275.4 | 36.0 | | | G2/5000 |
| FVH (80°-90°) | 14.9 | 0.2 | | | G1/100 |
| BL (0°-30°) | 204.7 | 3.2 | B1/500 | | |
| BM (30°-60°) | 339.0 | 5.4 | B1/1000 | | |
| BH (60°-80°) | 145.7 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.8 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 689.4 | 689.4 | 689.4 | 689.4 | 689.4 | 689.4 | 689.4 | 689.4 | 689.4 | 689.4 | 689.4 |
| 2.5° | 676.5 | 675.2 | 675.2 | 680.2 | 680.8 | 683.3 | 688.8 | 689.4 | 692.5 | 691.3 | 687.0 |
| 5° | 641.3 | 641.9 | 645.6 | 654.2 | 661.6 | 670.9 | 684.5 | 687.6 | 694.4 | 698.1 | 695.6 |
| 7.5° | 608.5 | 609.1 | 614.7 | 628.3 | 642.5 | 661.0 | 683.3 | 689.4 | 703.0 | 712.9 | 713.5 |
| 10° | 596.2 | 595.5 | 601.1 | 616.5 | 635.1 | 661.0 | 693.1 | 701.2 | 721.6 | 738.9 | 742.0 |
| 12.5° | 599.9 | 599.2 | 604.8 | 619.0 | 639.4 | 672.1 | 710.4 | 721.6 | 747.5 | 774.1 | 779.6 |
| 15° | 614.7 | 614.1 | 617.8 | 629.5 | 651.8 | 685.7 | 732.7 | 749.4 | 782.1 | 814.2 | 822.9 |
| 17.5° | 659.2 | 656.1 | 652.4 | 653.6 | 666.6 | 701.8 | 761.1 | 781.5 | 822.3 | 860.6 | 868.0 |
| 20° | 738.2 | 730.2 | 720.3 | 707.4 | 701.2 | 725.3 | 793.8 | 817.3 | 866.7 | 910.6 | 911.8 |
| 22.5° | 857.5 | 854.4 | 831.5 | 793.8 | 767.3 | 767.9 | 832.2 | 859.3 | 919.9 | 968.1 | 961.3 |
| 25° | 1023.7 | 1021.8 | 986.6 | 924.8 | 855.6 | 832.2 | 881.0 | 908.8 | 982.9 | 1034.2 | 1012.5 |
| 27.5° | 1230.0 | 1217.0 | 1175.6 | 1092.2 | 989.1 | 915.6 | 942.7 | 967.4 | 1049.6 | 1097.8 | 1057.0 |
| 30° | 1409.8 | 1410.4 | 1371.5 | 1284.4 | 1168.2 | 1041.0 | 1018.1 | 1039.7 | 1110.8 | 1161.4 | 1112.0 |
| 32.5° | 1582.8 | 1588.3 | 1545.7 | 1467.2 | 1340.0 | 1204.7 | 1126.2 | 1129.9 | 1189.2 | 1244.2 | 1184.3 |
| 35° | 1743.4 | 1747.7 | 1718.0 | 1651.3 | 1532.7 | 1375.8 | 1277.0 | 1275.1 | 1307.2 | 1363.4 | 1285.0 |
| 37.5° | 1923.2 | 1927.5 | 1898.4 | 1838.5 | 1727.3 | 1571.6 | 1448.1 | 1445.6 | 1458.6 | 1504.3 | 1414.7 |
| 40° | 2114.7 | 2122.7 | 2090.6 | 2039.9 | 1933.7 | 1802.1 | 1647.0 | 1624.8 | 1611.8 | 1665.5 | 1582.8 |
| 42.5° | 2308.6 | 2321.0 | 2309.9 | 2259.2 | 2168.4 | 2059.7 | 1905.2 | 1870.6 | 1842.8 | 1910.2 | 1822.5 |
| 45° | 2549.6 | 2564.4 | 2559.5 | 2520.5 | 2450.1 | 2361.8 | 2216.0 | 2175.8 | 2162.8 | 2225.2 | 2120.8 |
| 47.5° | 2781.2 | 2797.3 | 2815.2 | 2806.6 | 2756.5 | 2715.8 | 2553.9 | 2531.0 | 2527.3 | 2594.1 | 2432.2 |
| 50° | 2953.6 | 2968.4 | 3037.0 | 3086.4 | 3120.4 | 3111.8 | 2971.5 | 2937.5 | 2932.0 | 2974.6 | 2760.9 |
| 52.5° | 3077.2 | 3091.4 | 3185.9 | 3340.3 | 3465.1 | 3533.1 | 3391.6 | 3384.2 | 3353.9 | 3339.1 | 3068.5 |
| 55° | 3172.9 | 3192.7 | 3292.2 | 3525.7 | 3777.1 | 3927.8 | 3839.5 | 3812.9 | 3735.1 | 3649.8 | 3353.9 |
| 57.5° | 3192.1 | 3200.1 | 3340.3 | 3655.4 | 4019.3 | 4263.3 | 4263.3 | 4217.0 | 4066.8 | 3948.9 | 3683.8 |
| 60° | 3020.3 | 3045.0 | 3234.7 | 3644.9 | 4123.1 | 4482.6 | 4614.8 | 4582.7 | 4380.1 | 4234.9 | 4001.4 |
| 62.5° | 2639.2 | 2667.0 | 2898.0 | 3393.5 | 4019.3 | 4527.7 | 4881.1 | 4876.1 | 4647.6 | 4471.5 | 4264.5 |
| 65° | 2023.8 | 2044.2 | 2245.6 | 2838.7 | 3580.7 | 4354.1 | 5071.4 | 5085.0 | 4858.8 | 4627.8 | 4355.4 |
| 67.5° | 1016.9 | 1031.1 | 1248.5 | 1939.2 | 2838.1 | 3854.3 | 5058.4 | 5118.9 | 4923.1 | 4545.0 | 4008.8 |
| 70° | 355.2 | 369.4 | 472.0 | 832.2 | 1727.3 | 2943.1 | 4621.0 | 4719.8 | 4545.6 | 3879.7 | 2957.3 |
| 72.5° | 121.7 | 128.5 | 195.8 | 308.9 | 672.1 | 1744.6 | 3513.9 | 3662.8 | 3350.8 | 2604.6 | 1699.5 |
| 75° | 69.2 | 73.5 | 105.0 | 167.4 | 281.7 | 573.9 | 1993.6 | 2085.0 | 1953.4 | 1419.7 | 699.3 |
| 77.5° | 47.0 | 50.7 | 65.5 | 95.1 | 155.7 | 184.7 | 813.0 | 1023.7 | 892.7 | 463.3 | 178.5 |
| 80° | 27.8 | 30.3 | 40.2 | 56.2 | 79.7 | 71.7 | 174.2 | 231.7 | 298.4 | 138.4 | 53.7 |
| 82.5° | 13.0 | 14.8 | 25.9 | 37.1 | 40.2 | 30.3 | 51.3 | 62.4 | 84.0 | 68.0 | 22.2 |
| 85° | 0.0 | 0.0 | 8.6 | 15.4 | 14.8 | 8.6 | 14.2 | 15.4 | 22.9 | 34.0 | 8.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.2 | 1.9 | 3.7 | 6.8 | 3.7 |
| 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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CATALOG NUMBER: GWS-SA1F-750-U-T3-W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 689.4 | 689.4 | 689.4 | 689.4 | 689.4 | 689.4 | 689.4 | 689.4 | 689.4 | 689.4 | 689.4 |
| 2.5° | 691.9 | 687.6 | 692.5 | 690.1 | 692.5 | 691.9 | 687.0 | 683.9 | 683.9 | 678.3 | 676.5 |
| 5° | 700.6 | 696.2 | 697.5 | 691.9 | 690.7 | 687.6 | 681.4 | 678.9 | 678.9 | 673.4 | 671.5 |
| 7.5° | 719.7 | 712.9 | 711.7 | 700.6 | 695.6 | 687.0 | 675.9 | 671.5 | 670.9 | 665.3 | 663.5 |
| 10° | 750.0 | 742.0 | 736.4 | 722.2 | 708.0 | 690.7 | 667.2 | 647.4 | 636.3 | 621.5 | 620.3 |
| 12.5° | 787.1 | 777.2 | 768.5 | 746.9 | 723.4 | 684.5 | 615.3 | 543.0 | 498.5 | 463.3 | 465.8 |
| 15° | 828.4 | 819.2 | 805.6 | 772.8 | 724.7 | 623.3 | 478.8 | 367.6 | 313.2 | 284.2 | 282.9 |
| 17.5° | 873.5 | 860.0 | 837.7 | 793.2 | 685.7 | 476.3 | 311.4 | 219.9 | 191.5 | 181.6 | 179.2 |
| 20° | 915.6 | 898.9 | 871.1 | 797.6 | 573.3 | 322.5 | 194.6 | 170.5 | 165.6 | 162.5 | 162.5 |
| 22.5° | 960.0 | 939.0 | 897.6 | 764.2 | 426.3 | 206.3 | 165.6 | 160.0 | 156.3 | 152.0 | 151.4 |
| 25° | 1005.1 | 977.9 | 921.7 | 677.1 | 279.2 | 162.5 | 155.1 | 148.9 | 142.1 | 135.3 | 133.4 |
| 27.5° | 1043.4 | 1008.2 | 940.3 | 547.4 | 179.2 | 146.4 | 141.5 | 131.0 | 121.7 | 114.3 | 113.1 |
| 30° | 1089.1 | 1044.0 | 948.3 | 400.3 | 140.9 | 129.1 | 121.7 | 110.6 | 99.5 | 92.0 | 89.6 |
| 32.5° | 1150.3 | 1100.9 | 935.9 | 260.7 | 124.8 | 113.7 | 101.9 | 89.0 | 77.8 | 69.8 | 68.6 |
| 35° | 1245.4 | 1186.8 | 879.1 | 166.2 | 113.1 | 98.2 | 84.0 | 70.4 | 61.2 | 55.0 | 53.7 |
| 37.5° | 1361.6 | 1307.2 | 785.8 | 124.8 | 101.3 | 85.3 | 68.6 | 55.6 | 48.8 | 44.5 | 43.2 |
| 40° | 1533.9 | 1458.0 | 670.3 | 109.3 | 89.6 | 72.3 | 56.2 | 45.7 | 40.8 | 37.1 | 35.8 |
| 42.5° | 1757.6 | 1635.9 | 537.5 | 99.5 | 78.5 | 60.5 | 45.7 | 37.7 | 33.4 | 30.9 | 30.3 |
| 45° | 2018.9 | 1809.5 | 397.2 | 89.6 | 68.0 | 50.0 | 37.7 | 30.9 | 27.8 | 25.9 | 25.3 |
| 47.5° | 2286.4 | 1961.5 | 274.3 | 79.1 | 58.1 | 41.4 | 31.5 | 26.6 | 24.1 | 21.6 | 21.0 |
| 50° | 2571.8 | 2090.0 | 187.2 | 68.6 | 49.4 | 34.0 | 27.2 | 24.1 | 21.0 | 19.2 | 18.5 |
| 52.5° | 2781.2 | 2137.5 | 130.4 | 59.3 | 42.0 | 29.0 | 24.1 | 21.6 | 19.2 | 16.7 | 16.1 |
| 55° | 2974.6 | 2136.3 | 98.8 | 50.0 | 35.8 | 25.3 | 21.6 | 19.2 | 16.7 | 14.8 | 14.2 |
| 57.5° | 3167.4 | 2119.6 | 77.8 | 42.6 | 30.9 | 22.9 | 19.2 | 16.7 | 15.4 | 13.0 | 12.4 |
| 60° | 3292.2 | 2056.6 | 60.5 | 35.8 | 26.6 | 19.8 | 16.7 | 14.8 | 13.0 | 11.1 | 10.5 |
| 62.5° | 3358.3 | 1968.9 | 46.3 | 28.4 | 21.6 | 17.3 | 14.8 | 13.0 | 11.1 | 9.3 | 8.6 |
| 65° | 3268.7 | 1813.2 | 36.4 | 22.2 | 16.7 | 14.8 | 12.4 | 10.5 | 8.6 | 6.8 | 6.2 |
| 67.5° | 2871.4 | 1529.0 | 28.4 | 17.9 | 13.0 | 11.1 | 10.5 | 8.6 | 6.2 | 4.9 | 4.3 |
| 70° | 2029.4 | 1047.1 | 22.2 | 13.6 | 9.9 | 8.6 | 8.0 | 6.8 | 4.9 | 3.7 | 3.1 |
| 72.5° | 1113.9 | 528.2 | 16.1 | 9.9 | 7.4 | 6.8 | 6.2 | 5.6 | 4.3 | 3.1 | 3.1 |
| 75° | 428.7 | 145.2 | 11.7 | 6.8 | 4.9 | 4.9 | 4.3 | 4.3 | 3.7 | 2.5 | 2.5 |
| 77.5° | 111.8 | 43.2 | 7.4 | 4.3 | 3.1 | 3.1 | 3.1 | 2.5 | 2.5 | 1.9 | 1.9 |
| 80° | 35.8 | 14.2 | 4.3 | 3.1 | 2.5 | 1.9 | 1.9 | 1.2 | 1.9 | 1.2 | 1.2 |
| 82.5° | 11.7 | 4.9 | 2.5 | 2.5 | 1.9 | 1.2 | 1.2 | 0.6 | 0.6 | 0.0 | 0.0 |
| 85° | 4.3 | 2.5 | 1.9 | 1.2 | 1.2 | 1.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.5 | 1.2 | 1.2 | 1.2 | 1.2 | 0.6 | 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)