

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: P636549

Luminaire Tested: GWS-SA4B-722-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-722-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8928.6 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

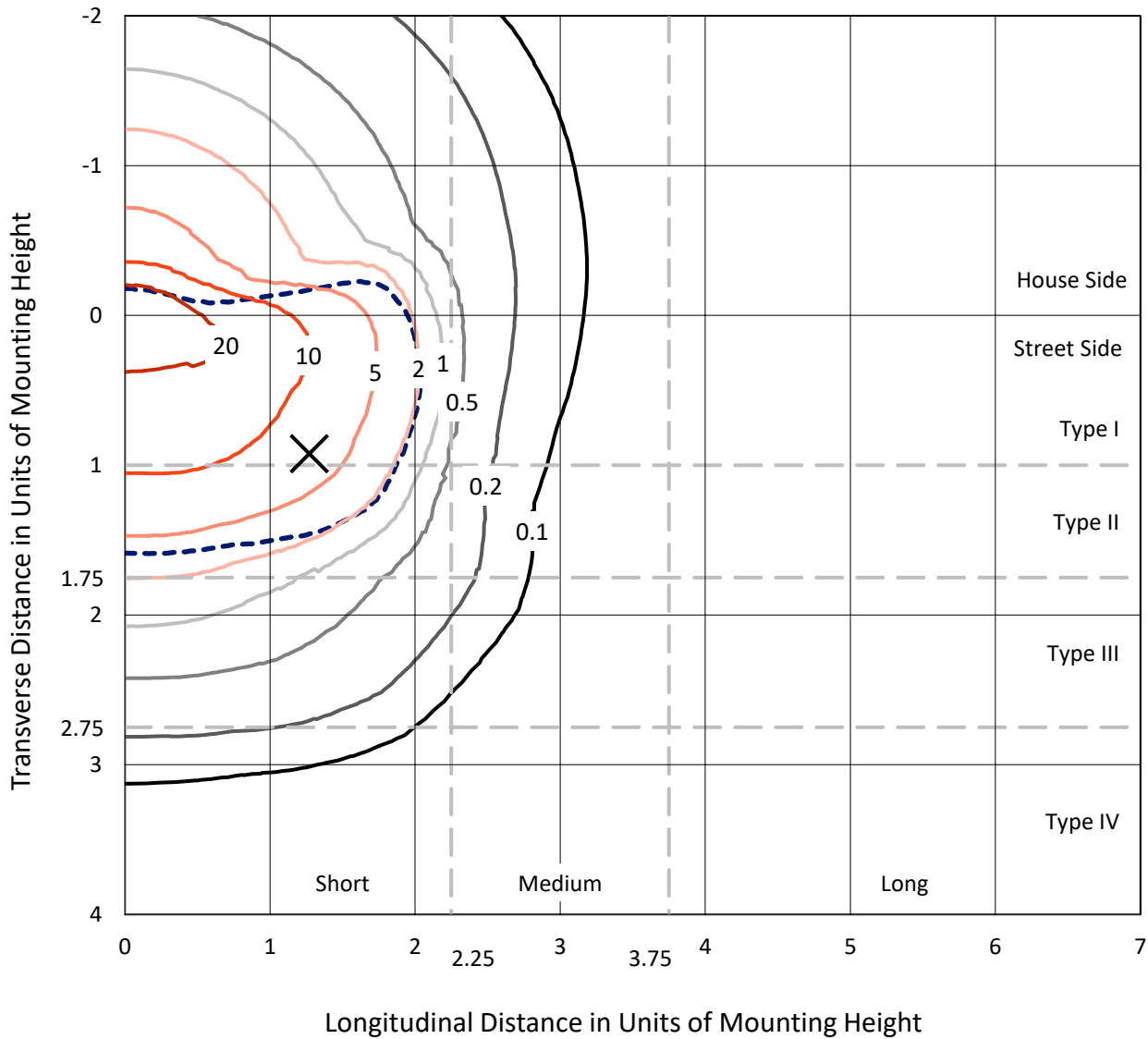
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

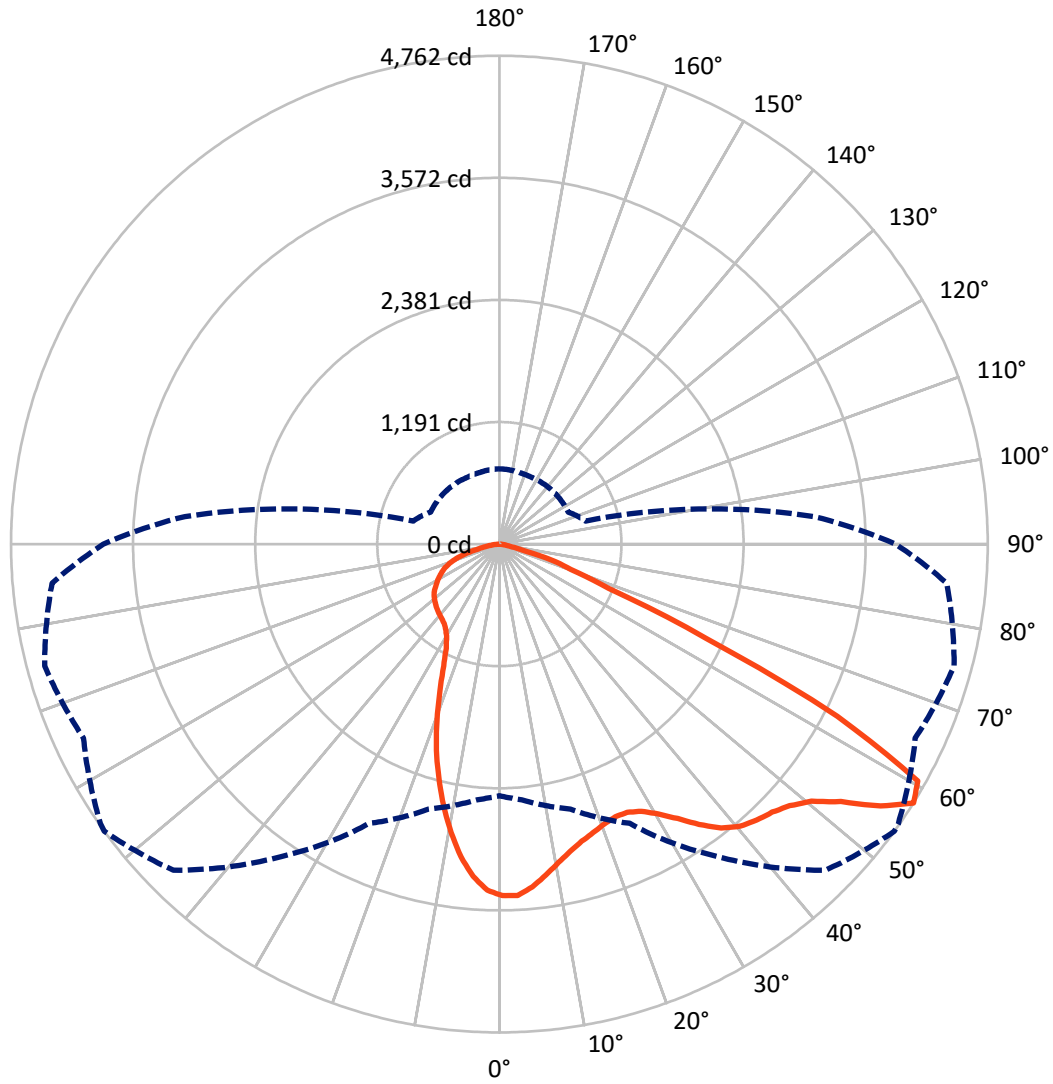
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 34.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2595.6 | 0.0 | 2595.6 |
| | % Fixture | 29.1 | 0.0 | 29.1 |
| Street Side | Lumens | 6333.0 | 0.0 | 6333.0 |
| | % Fixture | 70.9 | 0.0 | 70.9 |
| Total | Lumens | 8928.6 | 0.0 | 8928.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 301.3 | 3.4 |
| 10°-20° | 719.0 | 8.1 |
| 20°-30° | 994.9 | 11.1 |
| 30°-40° | 1382.5 | 15.5 |
| 40°-50° | 1825.8 | 20.4 |
| 50°-60° | 2169.7 | 24.3 |
| 60°-70° | 1202.1 | 13.5 |
| 70°-80° | 299.3 | 3.4 |
| 80°-90° | 34.0 | 0.4 |
| 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° | 8928.6 | 100.0 |
| 0°-180° | 8928.6 | 100.0 |

Coefficient of Utilization



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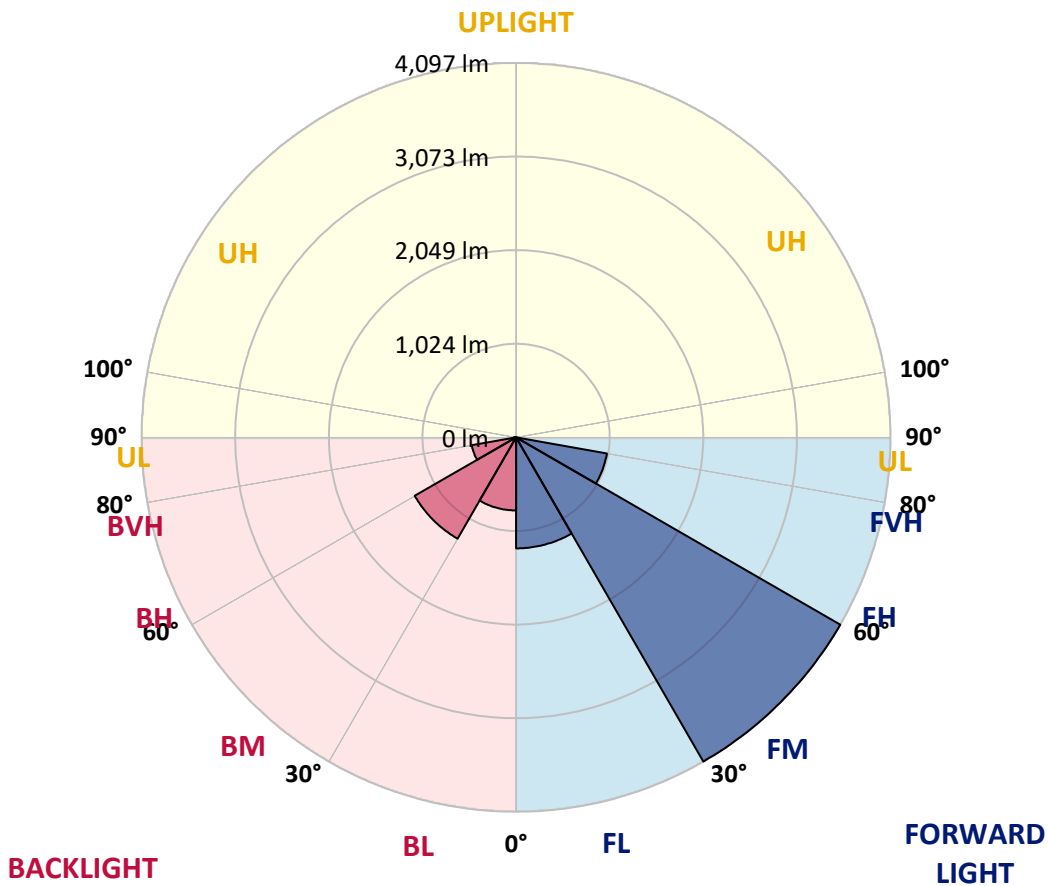
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1215.3 | 13.6 | | | |
| FM (30°-60°) | 4097.5 | 45.9 | | | |
| FH (60°-80°) | 1009.5 | 11.3 | | | G1/1800 |
| FVH (80°-90°) | 10.7 | 0.1 | | | G1/100 |
| BL (0°-30°) | 799.9 | 9.0 | B2/1000 | | |
| BM (30°-60°) | 1280.5 | 14.3 | B2/2500 | | |
| BH (60°-80°) | 491.9 | 5.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 23.4 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3427.9 | 3427.9 | 3427.9 | 3427.9 | 3427.9 | 3427.9 | 3427.9 | 3427.9 | 3427.9 | 3427.9 | 3427.9 |
| 2.5° | 3363.7 | 3370.6 | 3375.2 | 3391.2 | 3405.0 | 3417.2 | 3430.2 | 3430.2 | 3429.4 | 3427.1 | 3422.5 |
| 5° | 3230.7 | 3238.3 | 3249.0 | 3271.2 | 3301.0 | 3322.4 | 3357.6 | 3360.6 | 3375.9 | 3382.0 | 3379.0 |
| 7.5° | 3076.3 | 3078.6 | 3092.4 | 3121.4 | 3168.8 | 3207.0 | 3257.5 | 3263.6 | 3300.3 | 3321.7 | 3317.8 |
| 10° | 2907.4 | 2899.8 | 2924.2 | 2967.0 | 3028.9 | 3093.1 | 3158.1 | 3163.4 | 3222.3 | 3262.8 | 3259.7 |
| 12.5° | 2753.0 | 2753.8 | 2778.2 | 2830.2 | 2907.4 | 2986.9 | 3074.0 | 3086.2 | 3158.9 | 3210.8 | 3205.5 |
| 15° | 2623.8 | 2626.9 | 2656.7 | 2715.6 | 2803.5 | 2898.2 | 3006.8 | 3018.2 | 3109.9 | 3178.7 | 3163.4 |
| 17.5° | 2520.7 | 2523.7 | 2549.7 | 2617.0 | 2711.0 | 2825.6 | 2957.8 | 2969.3 | 3083.2 | 3165.0 | 3133.6 |
| 20° | 2449.6 | 2448.1 | 2473.3 | 2537.5 | 2634.5 | 2759.1 | 2915.0 | 2931.9 | 3074.8 | 3170.3 | 3113.8 |
| 22.5° | 2420.5 | 2419.8 | 2438.1 | 2490.9 | 2581.8 | 2707.9 | 2889.1 | 2912.0 | 3084.0 | 3194.0 | 3101.5 |
| 25° | 2435.1 | 2432.0 | 2448.1 | 2487.0 | 2559.6 | 2688.0 | 2896.7 | 2921.2 | 3122.9 | 3242.9 | 3103.8 |
| 27.5° | 2480.2 | 2476.3 | 2490.1 | 2525.3 | 2580.3 | 2708.7 | 2950.2 | 2978.5 | 3205.5 | 3332.4 | 3134.4 |
| 30° | 2548.9 | 2546.7 | 2560.4 | 2594.0 | 2642.2 | 2777.5 | 3052.6 | 3084.7 | 3333.1 | 3471.5 | 3200.9 |
| 32.5° | 2629.2 | 2625.4 | 2649.8 | 2688.8 | 2744.6 | 2902.8 | 3190.2 | 3232.2 | 3484.5 | 3650.3 | 3312.5 |
| 35° | 2719.4 | 2716.3 | 2750.0 | 2806.5 | 2886.8 | 3077.1 | 3356.8 | 3402.7 | 3638.8 | 3852.8 | 3460.8 |
| 37.5° | 2807.3 | 2807.3 | 2872.2 | 2956.3 | 3057.2 | 3266.6 | 3513.5 | 3542.5 | 3745.8 | 4032.5 | 3619.7 |
| 40° | 2885.2 | 2889.8 | 2987.7 | 3113.8 | 3242.2 | 3437.8 | 3616.7 | 3641.1 | 3793.2 | 4156.3 | 3758.1 |
| 42.5° | 2971.6 | 2975.4 | 3089.3 | 3254.4 | 3407.3 | 3576.2 | 3679.3 | 3691.6 | 3802.4 | 4218.2 | 3855.9 |
| 45° | 3040.4 | 3045.7 | 3187.1 | 3363.7 | 3550.9 | 3680.1 | 3729.0 | 3739.7 | 3815.4 | 4251.8 | 3927.0 |
| 47.5° | 3076.3 | 3084.0 | 3246.0 | 3451.6 | 3648.0 | 3773.4 | 3810.8 | 3815.4 | 3868.9 | 4310.7 | 4012.6 |
| 50° | 3070.2 | 3085.5 | 3268.2 | 3495.2 | 3719.9 | 3867.4 | 3942.3 | 3949.9 | 3978.2 | 4397.0 | 4112.7 |
| 52.5° | 3124.5 | 3131.3 | 3315.5 | 3547.1 | 3822.3 | 4040.9 | 4170.8 | 4181.5 | 4168.5 | 4462.0 | 4172.3 |
| 55° | 3034.3 | 3067.1 | 3256.7 | 3539.5 | 3978.2 | 4309.1 | 4509.4 | 4504.0 | 4341.2 | 4534.6 | 4271.7 |
| 57.5° | 2454.2 | 2502.3 | 2675.8 | 3004.5 | 3721.4 | 4497.2 | 4762.4 | 4749.4 | 4475.0 | 4590.4 | 4379.4 |
| 60° | 1699.0 | 1706.7 | 1863.4 | 2096.5 | 2872.2 | 3972.8 | 4688.2 | 4716.5 | 4499.4 | 4520.1 | 4180.0 |
| 62.5° | 1358.9 | 1356.6 | 1371.2 | 1377.3 | 1826.7 | 2792.8 | 3700.7 | 3803.9 | 3738.2 | 3521.9 | 2962.4 |
| 65° | 1160.2 | 1168.6 | 1211.4 | 1189.3 | 1192.3 | 1572.9 | 2211.1 | 2225.6 | 2179.8 | 2101.8 | 1566.8 |
| 67.5° | 908.0 | 922.5 | 998.2 | 1084.5 | 1057.0 | 1012.7 | 1147.2 | 1140.3 | 898.8 | 695.5 | 574.8 |
| 70° | 568.6 | 577.8 | 658.8 | 851.4 | 920.2 | 831.6 | 737.6 | 734.5 | 481.5 | 395.9 | 434.1 |
| 72.5° | 331.7 | 333.2 | 356.2 | 474.6 | 610.7 | 568.6 | 542.7 | 522.8 | 309.5 | 315.7 | 346.2 |
| 75° | 182.7 | 182.7 | 181.9 | 204.8 | 240.8 | 213.2 | 206.4 | 201.0 | 207.1 | 234.6 | 257.6 |
| 77.5° | 38.2 | 39.0 | 41.3 | 54.3 | 70.3 | 85.6 | 107.8 | 108.5 | 135.3 | 156.7 | 175.0 |
| 80° | 17.6 | 18.3 | 22.9 | 29.0 | 37.5 | 49.7 | 65.7 | 66.5 | 81.8 | 98.6 | 110.8 |
| 82.5° | 9.2 | 9.9 | 12.2 | 15.3 | 19.9 | 26.0 | 36.7 | 36.7 | 48.9 | 58.1 | 65.7 |
| 85° | 3.1 | 3.1 | 4.6 | 6.1 | 8.4 | 10.7 | 14.5 | 14.5 | 21.4 | 28.3 | 32.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 1.5 | 3.1 | 3.1 | 3.8 | 4.6 | 7.6 |
| 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-SA4B-722-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3427.9 | 3427.9 | 3427.9 | 3427.9 | 3427.9 | 3427.9 | 3427.9 | 3427.9 | 3427.9 | 3427.9 | 3427.9 |
| 2.5° | 3412.6 | 3388.9 | 3389.7 | 3394.3 | 3379.7 | 3357.6 | 3343.1 | 3324.7 | 3313.2 | 3311.0 | 3319.4 |
| 5° | 3363.7 | 3336.2 | 3317.1 | 3297.2 | 3255.9 | 3207.0 | 3168.8 | 3137.5 | 3116.8 | 3109.2 | 3100.0 |
| 7.5° | 3296.4 | 3260.5 | 3212.4 | 3156.6 | 3081.7 | 2994.5 | 2933.4 | 2876.1 | 2836.3 | 2824.9 | 2819.5 |
| 10° | 3229.2 | 3177.2 | 3091.6 | 2987.7 | 2863.1 | 2745.4 | 2634.5 | 2549.7 | 2482.5 | 2444.2 | 2456.5 |
| 12.5° | 3159.6 | 3095.4 | 2961.7 | 2801.9 | 2628.4 | 2451.1 | 2305.9 | 2165.3 | 2056.7 | 2002.5 | 1986.4 |
| 15° | 3098.5 | 3011.3 | 2824.9 | 2608.6 | 2377.7 | 2154.6 | 1944.4 | 1733.4 | 1595.9 | 1521.0 | 1500.3 |
| 17.5° | 3046.5 | 2933.4 | 2680.4 | 2411.4 | 2135.5 | 1817.5 | 1559.2 | 1363.5 | 1269.5 | 1228.2 | 1225.2 |
| 20° | 2995.3 | 2857.0 | 2537.5 | 2198.9 | 1855.7 | 1499.6 | 1268.7 | 1177.0 | 1143.4 | 1128.9 | 1128.1 |
| 22.5° | 2949.4 | 2776.7 | 2386.9 | 1986.4 | 1577.5 | 1260.3 | 1133.5 | 1093.7 | 1084.5 | 1084.5 | 1083.0 |
| 25° | 2910.5 | 2696.5 | 2232.5 | 1761.0 | 1326.1 | 1122.0 | 1063.1 | 1046.3 | 1050.2 | 1057.0 | 1057.8 |
| 27.5° | 2894.4 | 2633.8 | 2083.5 | 1529.4 | 1152.6 | 1041.7 | 1015.0 | 1012.7 | 1023.4 | 1034.1 | 1035.6 |
| 30° | 2911.2 | 2591.0 | 1930.6 | 1307.7 | 1048.6 | 992.8 | 980.6 | 985.2 | 998.2 | 1008.9 | 1008.9 |
| 32.5° | 2963.2 | 2569.6 | 1774.7 | 1145.7 | 988.2 | 958.4 | 954.6 | 959.2 | 969.1 | 975.2 | 976.0 |
| 35° | 3051.1 | 2578.0 | 1613.4 | 1036.4 | 949.3 | 933.2 | 932.4 | 935.5 | 939.3 | 943.1 | 943.9 |
| 37.5° | 3161.9 | 2615.4 | 1440.7 | 973.0 | 924.0 | 914.9 | 913.3 | 912.6 | 913.3 | 913.3 | 914.1 |
| 40° | 3270.4 | 2672.0 | 1286.3 | 935.5 | 906.5 | 898.8 | 895.0 | 889.6 | 888.9 | 887.4 | 886.6 |
| 42.5° | 3350.7 | 2715.6 | 1163.3 | 908.8 | 890.4 | 881.2 | 876.7 | 868.2 | 867.5 | 866.7 | 866.0 |
| 45° | 3411.1 | 2752.2 | 1060.9 | 882.8 | 873.6 | 865.2 | 855.3 | 847.6 | 849.1 | 850.7 | 850.7 |
| 47.5° | 3479.1 | 2784.4 | 985.9 | 858.3 | 853.0 | 844.6 | 832.3 | 827.0 | 832.3 | 837.7 | 837.7 |
| 50° | 3561.6 | 2829.4 | 924.8 | 833.9 | 831.6 | 821.6 | 810.9 | 808.6 | 814.7 | 822.4 | 822.4 |
| 52.5° | 3622.0 | 2868.4 | 881.2 | 809.4 | 809.4 | 796.4 | 787.2 | 786.5 | 793.3 | 801.0 | 801.8 |
| 55° | 3735.1 | 2959.4 | 866.0 | 781.1 | 778.1 | 768.1 | 761.2 | 755.9 | 764.3 | 771.2 | 771.2 |
| 57.5° | 3862.8 | 3080.1 | 869.8 | 740.6 | 736.8 | 733.7 | 728.4 | 722.3 | 724.6 | 732.2 | 733.0 |
| 60° | 3592.2 | 2846.3 | 827.7 | 700.1 | 697.8 | 696.3 | 689.4 | 678.7 | 681.8 | 687.9 | 688.6 |
| 62.5° | 2509.2 | 1891.6 | 669.5 | 649.7 | 657.3 | 656.5 | 647.4 | 635.1 | 635.9 | 644.3 | 644.3 |
| 65° | 1302.4 | 1023.4 | 587.7 | 603.8 | 615.3 | 610.7 | 595.4 | 584.7 | 583.2 | 593.9 | 591.6 |
| 67.5° | 561.8 | 558.7 | 535.0 | 555.6 | 567.9 | 557.9 | 541.9 | 524.3 | 525.8 | 529.7 | 526.6 |
| 70° | 452.5 | 466.2 | 476.2 | 498.3 | 508.3 | 489.9 | 472.3 | 462.4 | 454.0 | 453.2 | 447.9 |
| 72.5° | 361.5 | 380.6 | 402.8 | 425.7 | 428.8 | 410.4 | 388.3 | 379.1 | 366.1 | 365.3 | 360.0 |
| 75° | 272.1 | 288.1 | 305.7 | 324.1 | 324.1 | 306.5 | 292.0 | 287.4 | 272.1 | 267.5 | 262.9 |
| 77.5° | 185.7 | 195.7 | 209.4 | 214.0 | 218.6 | 211.7 | 197.2 | 189.5 | 172.0 | 167.4 | 161.3 |
| 80° | 116.9 | 123.8 | 132.2 | 135.3 | 139.9 | 131.5 | 120.0 | 111.6 | 99.4 | 95.5 | 92.5 |
| 82.5° | 70.3 | 74.9 | 80.3 | 81.8 | 85.6 | 79.5 | 68.8 | 62.7 | 55.8 | 52.7 | 50.4 |
| 85° | 35.9 | 38.2 | 41.3 | 42.0 | 41.3 | 35.2 | 31.3 | 28.3 | 23.7 | 22.9 | 21.4 |
| 87.5° | 9.2 | 10.7 | 11.5 | 10.7 | 9.9 | 7.6 | 5.4 | 3.8 | 1.5 | 1.5 | 0.8 |
| 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)