

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: P636878

Luminaire Tested: GWS-SA4B-760-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-760-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8541.3 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

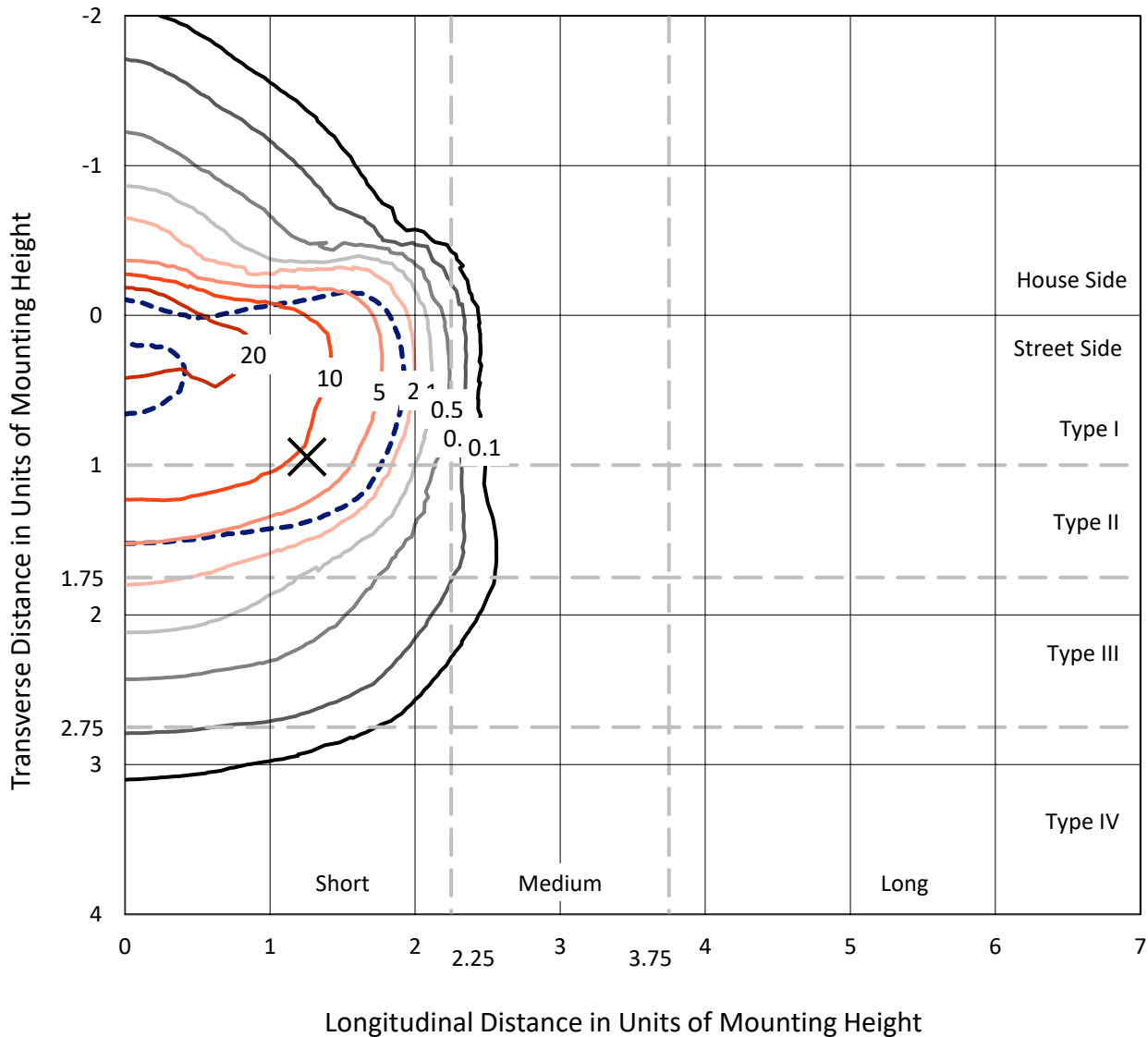
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

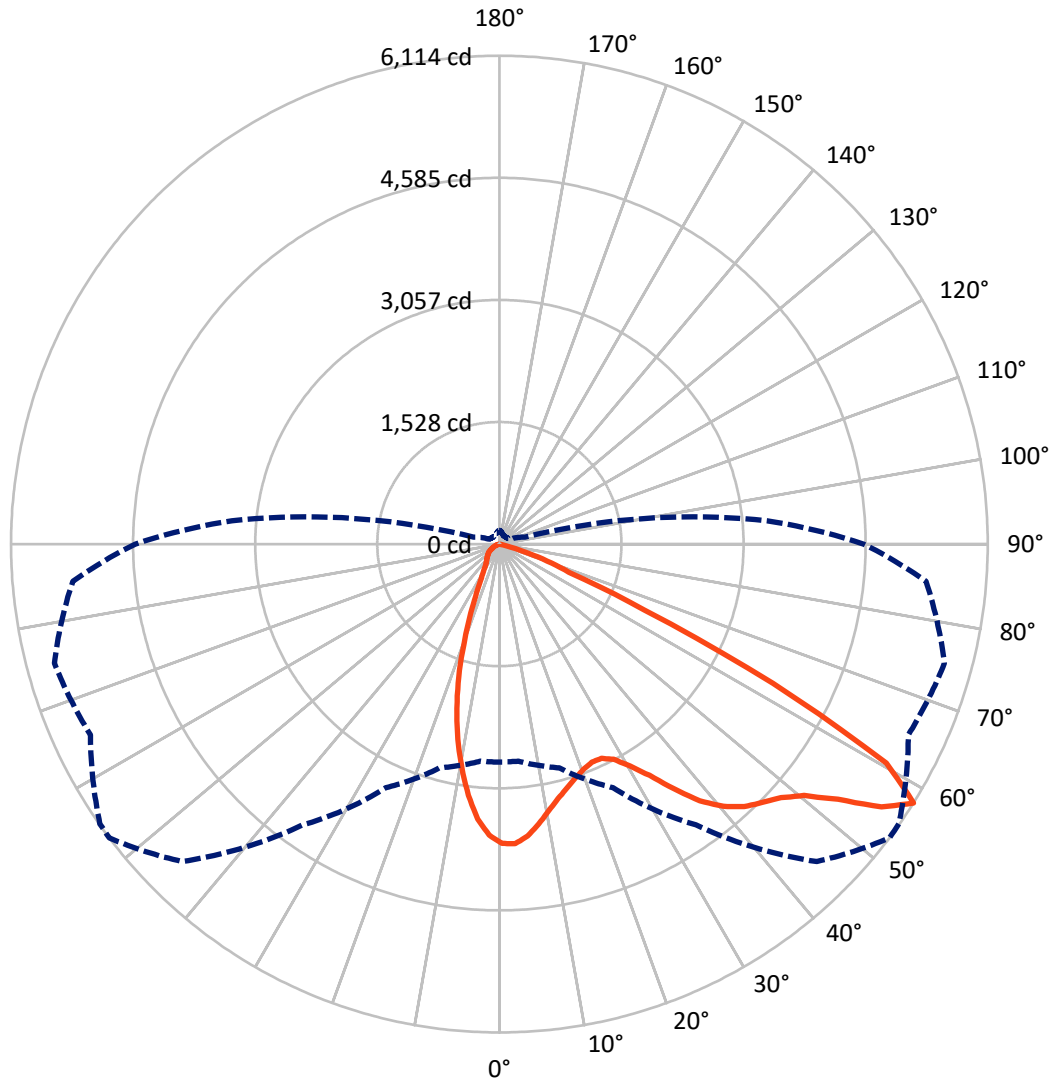
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 37.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1410.9 | 0.0 | 1410.9 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 7130.4 | 0.0 | 7130.4 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 8541.3 | 0.0 | 8541.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 320.6 | 3.8 |
| 10°-20° | 703.7 | 8.2 |
| 20°-30° | 916.8 | 10.7 |
| 30°-40° | 1329.8 | 15.6 |
| 40°-50° | 1918.9 | 22.5 |
| 50°-60° | 2320.7 | 27.2 |
| 60°-70° | 945.8 | 11.1 |
| 70°-80° | 85.0 | 1.0 |
| 80°-90° | 0.0 | 0.0 |
| 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° | 8541.3 | 100.0 |
| 0°-180° | 8541.3 | 100.0 |

Coefficient of Utilization



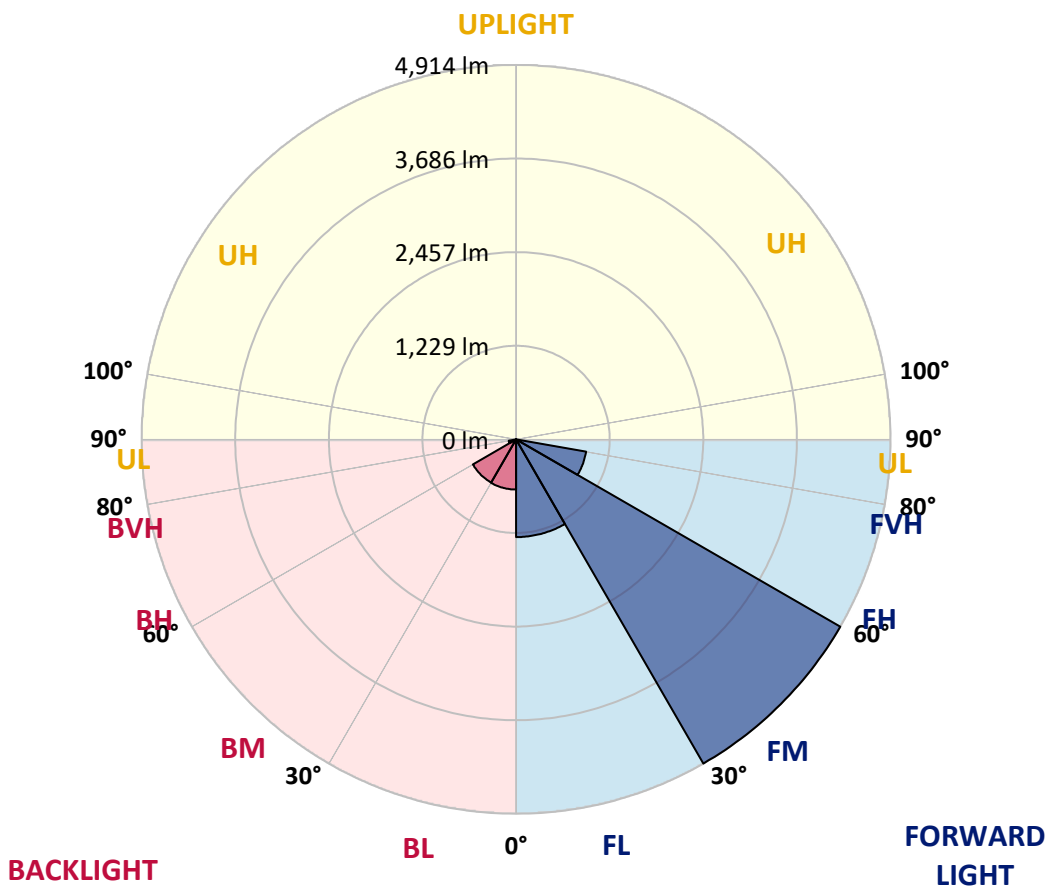
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1282.6 | 15.0 | | | |
| FM (30°-60°) | 4914.5 | 57.5 | | | |
| FH (60°-80°) | 933.3 | 10.9 | | | G1/1800 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 658.5 | 7.7 | B2/1000 | | |
| BM (30°-60°) | 654.9 | 7.7 | B1/1000 | | |
| BH (60°-80°) | 97.5 | 1.1 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| 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° | 53° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3746.7 | 3746.7 | 3746.7 | 3746.7 | 3746.7 | 3746.7 | 3746.7 | 3746.7 | 3746.7 | 3746.7 | 3746.7 |
| 2.5° | 3694.4 | 3702.7 | 3717.4 | 3736.2 | 3748.8 | 3755.1 | 3755.1 | 3772.9 | 3761.4 | 3751.9 | 3741.5 |
| 5° | 3536.3 | 3544.7 | 3564.5 | 3594.9 | 3625.3 | 3647.2 | 3672.4 | 3691.2 | 3698.5 | 3698.5 | 3680.7 |
| 7.5° | 3313.3 | 3324.8 | 3337.4 | 3379.3 | 3445.2 | 3494.4 | 3537.3 | 3564.5 | 3604.3 | 3616.9 | 3591.8 |
| 10° | 3073.6 | 3085.1 | 3113.4 | 3170.9 | 3246.3 | 3319.6 | 3392.9 | 3427.4 | 3495.5 | 3531.0 | 3502.8 |
| 12.5° | 2870.5 | 2875.7 | 2913.4 | 2982.5 | 3078.8 | 3179.3 | 3268.3 | 3303.9 | 3400.2 | 3453.6 | 3420.1 |
| 15° | 2703.0 | 2706.1 | 2743.8 | 2820.2 | 2931.2 | 3054.7 | 3166.7 | 3203.4 | 3321.7 | 3402.3 | 3352.0 |
| 17.5° | 2576.3 | 2577.4 | 2609.8 | 2692.5 | 2808.7 | 2945.9 | 3078.8 | 3123.8 | 3276.7 | 3374.0 | 3298.6 |
| 20° | 2512.5 | 2509.3 | 2532.3 | 2604.6 | 2714.5 | 2851.6 | 3008.7 | 3064.2 | 3251.5 | 3369.8 | 3257.8 |
| 22.5° | 2513.5 | 2506.2 | 2515.6 | 2566.9 | 2660.1 | 2788.8 | 2964.7 | 3027.5 | 3253.6 | 3387.6 | 3223.3 |
| 25° | 2573.2 | 2562.7 | 2564.8 | 2592.0 | 2658.0 | 2775.2 | 2971.0 | 3038.0 | 3295.5 | 3447.3 | 3210.7 |
| 27.5° | 2673.7 | 2662.2 | 2662.2 | 2675.8 | 2711.4 | 2818.1 | 3049.5 | 3125.9 | 3407.5 | 3563.5 | 3236.9 |
| 30° | 2803.5 | 2792.0 | 2787.8 | 2801.4 | 2830.7 | 2929.1 | 3224.3 | 3303.9 | 3599.1 | 3754.0 | 3320.6 |
| 32.5° | 2952.1 | 2938.5 | 2945.9 | 2964.7 | 2993.0 | 3129.1 | 3449.4 | 3555.1 | 3838.8 | 4010.5 | 3471.4 |
| 35° | 3109.2 | 3097.6 | 3131.1 | 3172.0 | 3215.9 | 3406.5 | 3760.3 | 3852.4 | 4133.0 | 4329.8 | 3701.7 |
| 37.5° | 3258.9 | 3253.6 | 3323.8 | 3409.6 | 3500.7 | 3739.4 | 4076.5 | 4147.6 | 4385.3 | 4677.4 | 3983.3 |
| 40° | 3408.6 | 3407.5 | 3527.9 | 3678.7 | 3824.2 | 4071.2 | 4316.2 | 4374.8 | 4539.2 | 4947.4 | 4253.4 |
| 42.5° | 3576.1 | 3576.1 | 3742.5 | 3943.5 | 4137.2 | 4351.8 | 4492.1 | 4518.2 | 4608.3 | 5103.4 | 4456.5 |
| 45° | 3736.2 | 3745.7 | 3938.3 | 4171.7 | 4401.0 | 4570.6 | 4613.5 | 4615.6 | 4636.5 | 5195.6 | 4625.0 |
| 47.5° | 3862.9 | 3871.3 | 4101.6 | 4370.6 | 4617.7 | 4737.0 | 4743.3 | 4733.9 | 4710.9 | 5283.5 | 4754.8 |
| 50° | 3965.5 | 3978.1 | 4218.8 | 4503.6 | 4766.3 | 4897.2 | 4945.4 | 4935.9 | 4877.3 | 5377.7 | 4845.9 |
| 52.5° | 4015.7 | 4033.5 | 4259.7 | 4569.5 | 4931.7 | 5171.5 | 5305.5 | 5327.5 | 5126.5 | 5430.0 | 4932.8 |
| 55° | 3613.8 | 3639.9 | 3848.2 | 4272.2 | 5023.9 | 5595.5 | 5805.9 | 5801.7 | 5396.5 | 5586.0 | 5144.3 |
| 57.5° | 2729.2 | 2727.1 | 2899.8 | 3363.6 | 4291.1 | 5619.5 | 6113.6 | 6105.3 | 5648.8 | 5767.1 | 5361.0 |
| 60° | 1858.2 | 1845.6 | 1891.7 | 2115.7 | 3000.3 | 4577.9 | 5564.0 | 5677.1 | 5469.8 | 5327.5 | 4551.7 |
| 62.5° | 1529.5 | 1517.9 | 1503.3 | 1441.5 | 1723.1 | 2851.6 | 3844.1 | 4015.7 | 3988.5 | 3702.7 | 2854.8 |
| 65° | 1252.0 | 1261.5 | 1302.3 | 1276.1 | 1198.7 | 1462.5 | 1995.3 | 2096.9 | 1916.8 | 1613.2 | 997.7 |
| 67.5° | 923.3 | 927.5 | 980.9 | 1119.1 | 1077.2 | 973.6 | 939.0 | 955.8 | 560.1 | 257.5 | 166.5 |
| 70° | 545.4 | 548.6 | 597.8 | 783.0 | 874.1 | 747.5 | 634.4 | 625.0 | 221.9 | 69.1 | 75.4 |
| 72.5° | 308.8 | 302.5 | 312.0 | 372.7 | 476.3 | 396.8 | 326.6 | 297.3 | 67.0 | 38.7 | 38.7 |
| 75° | 146.6 | 142.4 | 122.5 | 115.2 | 104.7 | 67.0 | 41.9 | 35.6 | 16.7 | 15.7 | 15.7 |
| 77.5° | 1.0 | 3.1 | 2.1 | 3.1 | 3.1 | 2.1 | 1.0 | 1.0 | 3.1 | 3.1 | 4.2 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3746.7 | 3746.7 | 3746.7 | 3746.7 | 3746.7 | 3746.7 | 3746.7 | 3746.7 | 3746.7 | 3746.7 | 3746.7 |
| 2.5° | 3722.6 | 3691.2 | 3683.9 | 3681.8 | 3652.5 | 3621.1 | 3588.6 | 3576.1 | 3557.2 | 3545.7 | 3555.1 |
| 5° | 3652.5 | 3607.5 | 3567.7 | 3531.0 | 3466.1 | 3395.0 | 3333.2 | 3293.4 | 3255.7 | 3230.6 | 3236.9 |
| 7.5° | 3553.0 | 3494.4 | 3403.3 | 3310.2 | 3190.8 | 3084.0 | 2964.7 | 2891.4 | 2823.4 | 2785.7 | 2803.5 |
| 10° | 3447.3 | 3369.8 | 3224.3 | 3066.2 | 2878.9 | 2711.4 | 2540.7 | 2401.5 | 2320.9 | 2244.5 | 2252.8 |
| 12.5° | 3343.7 | 3241.1 | 3023.3 | 2783.6 | 2547.0 | 2299.9 | 2042.4 | 1849.8 | 1717.9 | 1622.6 | 1608.0 |
| 15° | 3247.4 | 3115.4 | 2827.6 | 2511.4 | 2189.0 | 1860.3 | 1531.6 | 1256.2 | 1103.4 | 1009.2 | 1002.9 |
| 17.5° | 3161.5 | 2998.2 | 2624.5 | 2226.7 | 1822.6 | 1401.7 | 1023.8 | 817.6 | 729.7 | 688.8 | 684.6 |
| 20° | 3078.8 | 2879.9 | 2417.2 | 1937.7 | 1422.7 | 984.0 | 706.6 | 611.4 | 583.1 | 566.3 | 568.4 |
| 22.5° | 2999.2 | 2751.1 | 2199.4 | 1617.4 | 1066.7 | 690.9 | 547.5 | 510.9 | 507.7 | 509.8 | 510.9 |
| 25° | 2932.2 | 2632.8 | 1975.4 | 1308.6 | 761.1 | 526.6 | 457.5 | 447.0 | 456.4 | 470.0 | 472.1 |
| 27.5° | 2897.7 | 2536.5 | 1756.6 | 997.7 | 550.6 | 428.2 | 396.8 | 400.9 | 417.7 | 432.4 | 434.4 |
| 30° | 2907.1 | 2464.3 | 1530.5 | 723.4 | 424.0 | 361.2 | 350.7 | 359.1 | 375.8 | 389.4 | 391.5 |
| 32.5° | 2974.1 | 2427.7 | 1299.1 | 526.6 | 348.6 | 315.1 | 310.9 | 317.2 | 331.9 | 342.3 | 343.4 |
| 35° | 3107.1 | 2436.0 | 1079.3 | 403.0 | 299.4 | 280.6 | 279.5 | 283.7 | 291.0 | 298.4 | 299.4 |
| 37.5° | 3302.8 | 2504.1 | 862.6 | 335.0 | 271.1 | 257.5 | 253.3 | 253.3 | 258.6 | 261.7 | 263.8 |
| 40° | 3513.3 | 2606.7 | 690.9 | 296.3 | 251.2 | 236.6 | 228.2 | 225.1 | 229.3 | 233.4 | 234.5 |
| 42.5° | 3687.0 | 2709.3 | 561.1 | 269.0 | 235.5 | 215.7 | 205.2 | 203.1 | 208.3 | 215.7 | 217.7 |
| 45° | 3820.0 | 2788.8 | 467.9 | 247.1 | 217.7 | 195.8 | 184.2 | 184.2 | 193.7 | 206.2 | 208.3 |
| 47.5° | 3941.4 | 2852.7 | 398.9 | 227.2 | 201.0 | 178.0 | 166.5 | 168.5 | 184.2 | 201.0 | 204.1 |
| 50° | 4024.1 | 2904.0 | 347.6 | 209.4 | 187.4 | 163.3 | 152.8 | 157.0 | 175.9 | 195.8 | 198.9 |
| 52.5° | 4113.1 | 2966.8 | 314.1 | 193.7 | 174.8 | 151.8 | 142.4 | 145.5 | 166.5 | 188.4 | 192.6 |
| 55° | 4359.1 | 3177.2 | 313.0 | 172.7 | 152.8 | 136.1 | 131.9 | 133.0 | 153.9 | 179.0 | 184.2 |
| 57.5° | 4560.1 | 3362.5 | 333.9 | 145.5 | 127.7 | 119.3 | 117.2 | 118.3 | 137.1 | 165.4 | 171.7 |
| 60° | 3772.9 | 2613.0 | 276.4 | 120.4 | 106.8 | 104.7 | 101.5 | 103.6 | 121.4 | 146.6 | 151.8 |
| 62.5° | 2232.9 | 1493.9 | 131.9 | 92.1 | 91.1 | 89.0 | 85.8 | 90.0 | 106.8 | 128.8 | 131.9 |
| 65° | 763.2 | 442.8 | 83.7 | 75.4 | 77.5 | 74.3 | 71.2 | 75.4 | 90.0 | 102.6 | 103.6 |
| 67.5° | 146.6 | 117.2 | 67.0 | 62.8 | 63.9 | 57.6 | 56.5 | 60.7 | 69.1 | 71.2 | 70.1 |
| 70° | 76.4 | 68.0 | 51.3 | 51.3 | 49.2 | 40.8 | 40.8 | 45.0 | 45.0 | 41.9 | 40.8 |
| 72.5° | 39.8 | 37.7 | 33.5 | 37.7 | 31.4 | 25.1 | 25.1 | 27.2 | 25.1 | 20.9 | 20.9 |
| 75° | 15.7 | 15.7 | 14.7 | 18.8 | 13.6 | 11.5 | 10.5 | 12.6 | 9.4 | 7.3 | 7.3 |
| 77.5° | 4.2 | 4.2 | 4.2 | 5.2 | 3.1 | 3.1 | 2.1 | 2.1 | 1.0 | 0.0 | 0.0 |
| 80° | 0.0 | 1.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)