

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: P639296

Luminaire Tested: GWS-SA5B-750-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-750-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14397.9 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

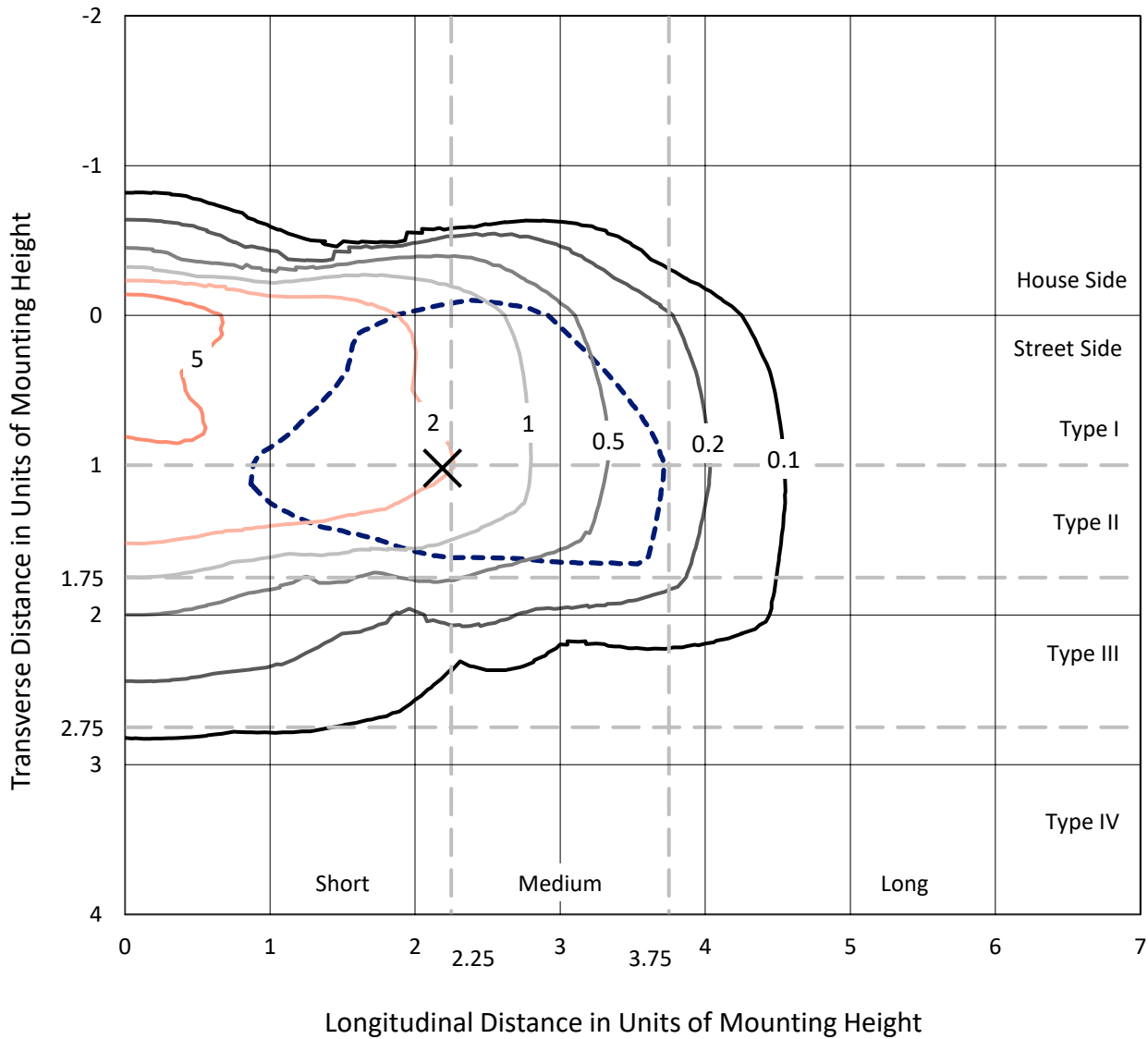
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

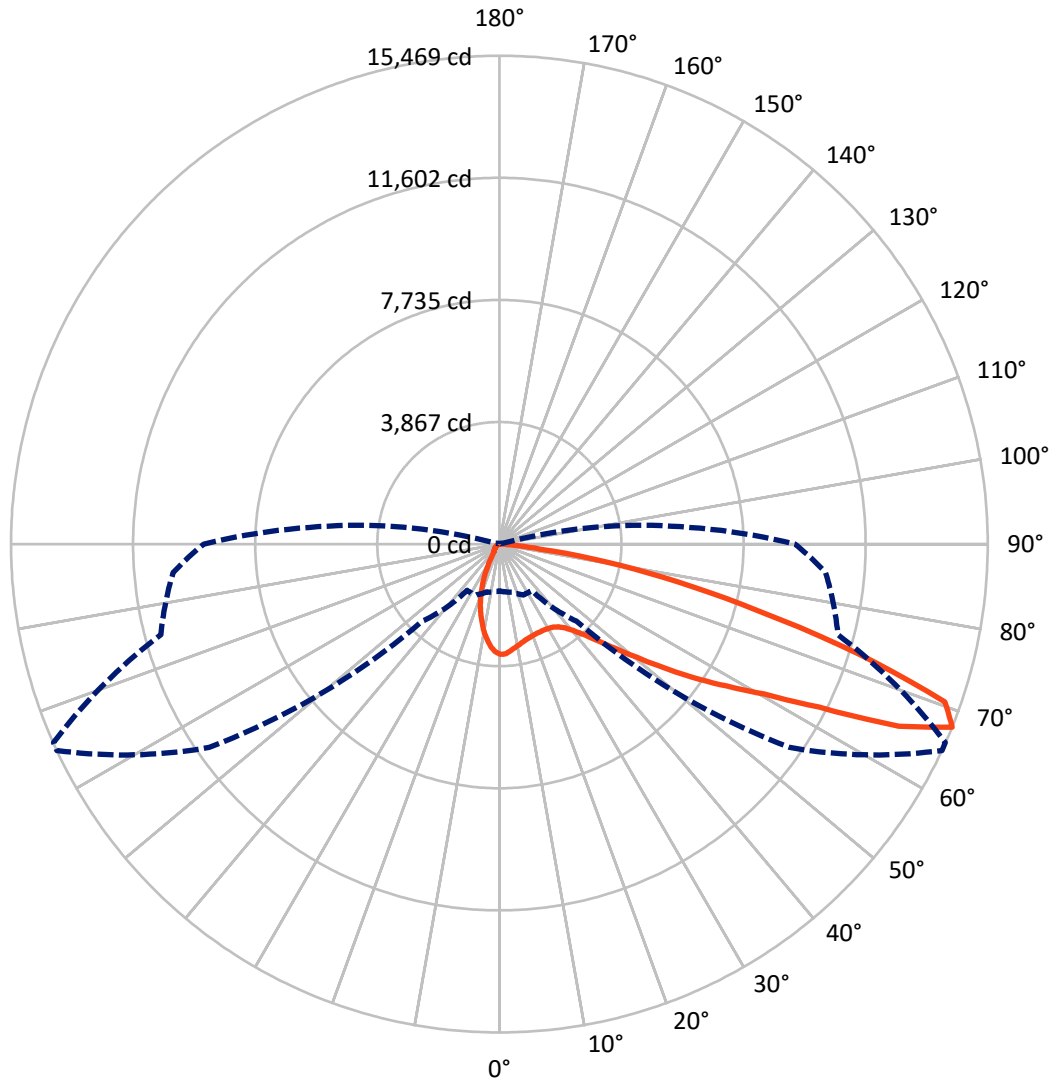
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1797.8 | 0.0 | 1797.8 |
| | % Fixture | 12.5 | 0.0 | 12.5 |
| Street Side | Lumens | 12600.0 | 0.0 | 12600.0 |
| | % Fixture | 87.5 | 0.0 | 87.5 |
| Total | Lumens | 14397.9 | 0.0 | 14397.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 290.0 | 2.0 |
| 10°-20° | 652.0 | 4.5 |
| 20°-30° | 931.6 | 6.5 |
| 30°-40° | 1355.4 | 9.4 |
| 40°-50° | 2122.7 | 14.7 |
| 50°-60° | 3311.6 | 23.0 |
| 60°-70° | 3637.6 | 25.3 |
| 70°-80° | 1935.9 | 13.4 |
| 80°-90° | 161.2 | 1.1 |
| 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° | 14397.9 | 100.0 |
| 0°-180° | 14397.9 | 100.0 |

Coefficient of Utilization



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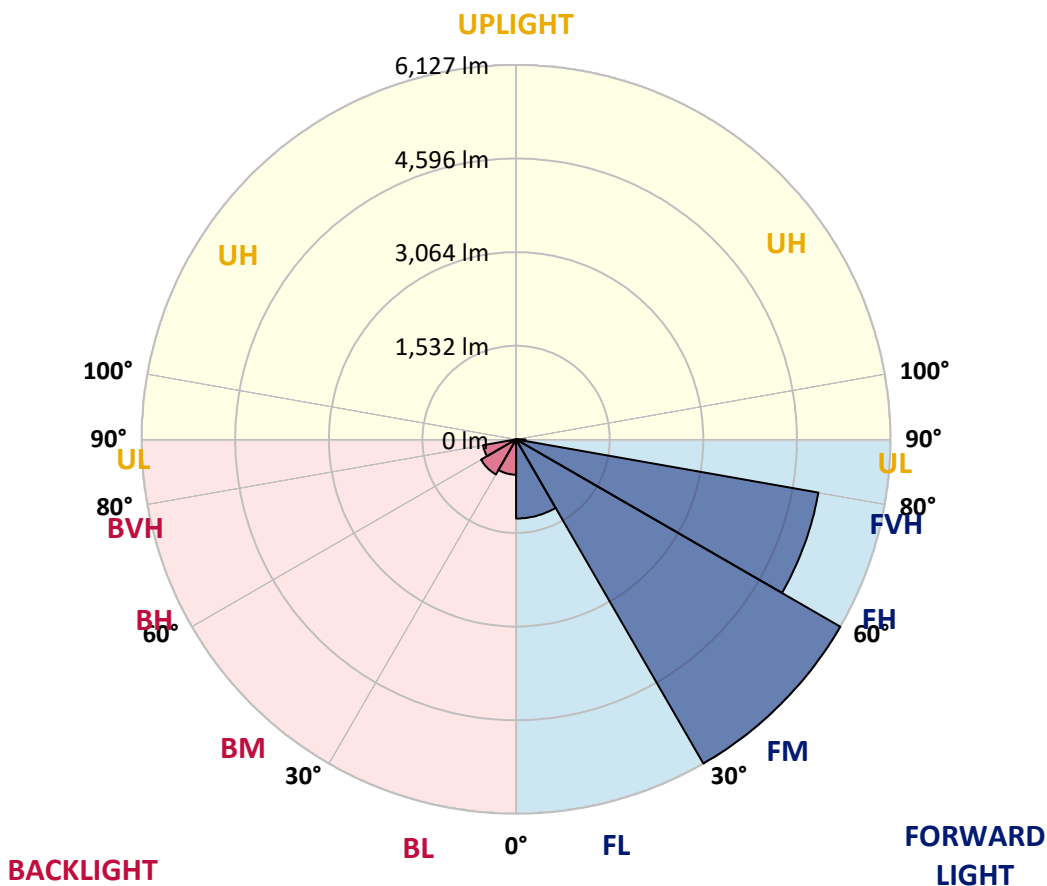
CATALOG NUMBER: GWS-SA5B-750-U-SL2-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1295.7 | 9.0 | | | |
| FM (30°-60°) | 6127.4 | 42.6 | | | |
| FH (60°-80°) | 5024.3 | 34.9 | | | G3/7500 |
| FVH (80°-90°) | 152.6 | 1.1 | | | G2/225 |
| BL (0°-30°) | 577.9 | 4.0 | B2/1000 | | |
| BM (30°-60°) | 662.2 | 4.6 | B1/1000 | | |
| BH (60°-80°) | 549.1 | 3.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 8.6 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 3491.9 | 3491.9 | 3491.9 | 3491.9 | 3491.9 | 3491.9 | 3491.9 | 3491.9 | 3491.9 | 3491.9 | 3491.9 |
| 2.5° | 3370.9 | 3381.3 | 3367.0 | 3402.1 | 3408.6 | 3447.7 | 3469.8 | 3485.4 | 3484.1 | 3503.7 | 3503.7 |
| 5° | 3173.0 | 3183.4 | 3175.6 | 3213.3 | 3243.3 | 3304.5 | 3355.2 | 3413.8 | 3416.4 | 3476.3 | 3498.5 |
| 7.5° | 3005.0 | 3006.3 | 3006.3 | 3053.2 | 3092.2 | 3167.7 | 3243.3 | 3333.1 | 3343.5 | 3436.0 | 3494.5 |
| 10° | 2867.0 | 2870.9 | 2872.2 | 2925.6 | 2968.5 | 3059.7 | 3156.0 | 3264.1 | 3275.8 | 3400.8 | 3491.9 |
| 12.5° | 2771.9 | 2773.2 | 2778.5 | 2834.4 | 2881.3 | 2976.4 | 3074.0 | 3197.7 | 3213.3 | 3360.4 | 3480.2 |
| 15° | 2726.4 | 2723.8 | 2726.4 | 2773.2 | 2820.1 | 2911.3 | 3011.5 | 3144.3 | 3161.2 | 3326.6 | 3481.5 |
| 17.5° | 2723.8 | 2719.9 | 2717.3 | 2752.4 | 2782.4 | 2863.1 | 2964.6 | 3109.2 | 3127.4 | 3311.0 | 3495.9 |
| 20° | 2761.5 | 2758.9 | 2745.9 | 2761.5 | 2768.0 | 2834.4 | 2934.7 | 3081.8 | 3100.0 | 3308.4 | 3527.1 |
| 22.5° | 2860.5 | 2854.0 | 2834.4 | 2820.1 | 2785.0 | 2824.0 | 2913.9 | 3062.3 | 3083.1 | 3314.9 | 3567.5 |
| 25° | 3007.6 | 3005.0 | 2980.3 | 2945.1 | 2855.3 | 2839.6 | 2915.2 | 3062.3 | 3081.8 | 3322.7 | 3610.4 |
| 27.5° | 3228.9 | 3213.3 | 3182.1 | 3120.9 | 2992.0 | 2900.8 | 2941.2 | 3070.1 | 3089.6 | 3333.1 | 3645.6 |
| 30° | 3454.2 | 3452.9 | 3442.5 | 3380.0 | 3188.6 | 3018.0 | 2995.9 | 3090.9 | 3109.2 | 3342.2 | 3678.1 |
| 32.5° | 3687.2 | 3691.1 | 3717.2 | 3669.0 | 3459.4 | 3192.5 | 3094.8 | 3133.9 | 3146.9 | 3360.4 | 3706.8 |
| 35° | 3908.6 | 3916.4 | 3985.4 | 4002.3 | 3788.8 | 3456.8 | 3256.3 | 3219.8 | 3221.1 | 3400.8 | 3744.5 |
| 37.5° | 4120.8 | 4146.8 | 4257.5 | 4339.5 | 4198.9 | 3777.1 | 3489.3 | 3365.7 | 3355.2 | 3481.5 | 3801.8 |
| 40° | 4361.7 | 4411.2 | 4550.5 | 4689.8 | 4645.5 | 4200.2 | 3807.0 | 3589.6 | 3567.5 | 3630.0 | 3904.7 |
| 42.5° | 4628.6 | 4682.0 | 4866.8 | 5062.1 | 5083.0 | 4711.9 | 4204.1 | 3916.4 | 3878.6 | 3879.9 | 4097.4 |
| 45° | 4915.0 | 4986.6 | 5201.5 | 5482.7 | 5609.0 | 5282.2 | 4693.7 | 4357.8 | 4320.0 | 4264.0 | 4407.2 |
| 47.5° | 5291.3 | 5353.8 | 5560.8 | 5885.0 | 6127.2 | 5894.1 | 5335.6 | 4925.4 | 4856.4 | 4774.4 | 4889.0 |
| 50° | 5615.5 | 5670.2 | 5848.6 | 6254.8 | 6758.6 | 6683.1 | 6063.4 | 5635.0 | 5568.6 | 5429.3 | 5524.4 |
| 52.5° | 5687.1 | 5730.1 | 5894.1 | 6351.1 | 7241.7 | 7679.2 | 6955.2 | 6493.0 | 6446.2 | 6188.4 | 6224.8 |
| 55° | 5365.5 | 5430.6 | 5577.7 | 6085.5 | 7368.0 | 8653.0 | 8112.7 | 7460.4 | 7362.8 | 6951.3 | 7016.4 |
| 57.5° | 4553.1 | 4668.9 | 4807.0 | 5467.1 | 7025.6 | 9171.2 | 9729.8 | 8485.1 | 8396.6 | 7685.7 | 7687.0 |
| 60° | 3337.0 | 3430.8 | 3523.2 | 4127.3 | 6213.1 | 9136.1 | 11197.1 | 9636.0 | 9474.6 | 8285.9 | 8263.7 |
| 62.5° | 2426.9 | 2475.1 | 2473.8 | 2688.6 | 4266.6 | 8534.6 | 11967.9 | 11370.3 | 10994.0 | 8927.8 | 8801.5 |
| 65° | 1908.7 | 1907.4 | 1963.4 | 2033.7 | 2382.6 | 6588.1 | 12063.0 | 13902.7 | 13496.5 | 9788.4 | 9525.4 |
| 67.5° | 1485.6 | 1514.2 | 1570.2 | 1777.2 | 1790.2 | 3447.7 | 11227.1 | 15469.0 | 15461.2 | 11102.1 | 10373.0 |
| 70° | 1145.8 | 1184.8 | 1264.2 | 1566.3 | 1653.5 | 1929.6 | 8400.5 | 14972.9 | 15099.2 | 11689.3 | 9772.8 |
| 72.5° | 735.6 | 733.0 | 850.2 | 1265.5 | 1588.4 | 1608.0 | 4645.5 | 11893.7 | 12036.9 | 10587.8 | 7901.8 |
| 75° | 411.4 | 414.0 | 480.4 | 774.7 | 1480.4 | 1512.9 | 2300.6 | 8481.2 | 8594.5 | 8254.6 | 6071.2 |
| 77.5° | 161.4 | 166.7 | 225.2 | 407.5 | 976.5 | 1351.5 | 1367.1 | 5783.5 | 5800.4 | 5115.5 | 3723.7 |
| 80° | 65.1 | 69.0 | 114.6 | 252.6 | 595.0 | 910.1 | 976.5 | 3407.3 | 3338.3 | 1980.3 | 1083.3 |
| 82.5° | 19.5 | 20.8 | 45.6 | 143.2 | 311.2 | 647.1 | 658.8 | 1307.2 | 1234.3 | 425.8 | 276.0 |
| 85° | 1.3 | 1.3 | 10.4 | 44.3 | 110.7 | 162.7 | 438.8 | 425.8 | 377.6 | 106.8 | 122.4 |
| 87.5° | 0.0 | 0.0 | 1.3 | 1.3 | 2.6 | 5.2 | 46.9 | 78.1 | 79.4 | 19.5 | 54.7 |
| 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-SA5B-750-U-SL2-W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3491.9 | 3491.9 | 3491.9 | 3491.9 | 3491.9 | 3491.9 | 3491.9 | 3491.9 | 3491.9 | 3491.9 | 3491.9 |
| 2.5° | 3503.7 | 3456.8 | 3452.9 | 3416.4 | 3380.0 | 3334.4 | 3281.0 | 3242.0 | 3214.6 | 3166.4 | 3157.3 |
| 5° | 3498.5 | 3436.0 | 3377.4 | 3273.2 | 3157.3 | 3032.3 | 2923.0 | 2821.4 | 2757.6 | 2714.7 | 2696.4 |
| 7.5° | 3488.0 | 3408.6 | 3273.2 | 3076.6 | 2882.6 | 2663.9 | 2493.3 | 2337.1 | 2230.3 | 2167.8 | 2140.5 |
| 10° | 3480.2 | 3373.5 | 3153.4 | 2855.3 | 2554.5 | 2252.4 | 1993.4 | 1761.6 | 1632.7 | 1531.1 | 1514.2 |
| 12.5° | 3464.6 | 3322.7 | 2999.8 | 2596.2 | 2208.2 | 1807.2 | 1476.5 | 1192.6 | 996.0 | 907.5 | 876.2 |
| 15° | 3449.0 | 3269.3 | 2846.2 | 2322.8 | 1830.6 | 1335.8 | 934.8 | 661.4 | 526.0 | 484.3 | 481.7 |
| 17.5° | 3446.4 | 3221.1 | 2679.5 | 2063.7 | 1434.8 | 874.9 | 532.5 | 428.4 | 399.7 | 389.3 | 389.3 |
| 20° | 3454.2 | 3180.8 | 2515.4 | 1765.5 | 1045.5 | 532.5 | 397.1 | 371.1 | 354.1 | 345.0 | 345.0 |
| 22.5° | 3462.0 | 3139.1 | 2357.9 | 1464.7 | 694.0 | 389.3 | 350.2 | 328.1 | 308.6 | 298.2 | 292.9 |
| 25° | 3467.2 | 3093.5 | 2183.4 | 1162.7 | 453.1 | 338.5 | 307.3 | 278.6 | 255.2 | 242.2 | 242.2 |
| 27.5° | 3465.9 | 3038.9 | 2007.7 | 867.1 | 351.5 | 300.8 | 263.0 | 233.1 | 209.6 | 195.3 | 196.6 |
| 30° | 3455.5 | 2979.0 | 1825.4 | 605.4 | 307.3 | 263.0 | 225.2 | 194.0 | 170.6 | 158.8 | 157.5 |
| 32.5° | 3447.7 | 2915.2 | 1614.5 | 425.8 | 276.0 | 230.5 | 191.4 | 161.4 | 141.9 | 132.8 | 131.5 |
| 35° | 3438.6 | 2852.7 | 1414.0 | 324.2 | 248.7 | 199.2 | 161.4 | 136.7 | 121.1 | 113.3 | 113.3 |
| 37.5° | 3441.2 | 2787.6 | 1196.5 | 278.6 | 221.3 | 173.2 | 138.0 | 117.2 | 104.2 | 96.3 | 95.0 |
| 40° | 3481.5 | 2748.5 | 983.0 | 252.6 | 196.6 | 149.7 | 119.8 | 101.6 | 88.5 | 80.7 | 79.4 |
| 42.5° | 3581.8 | 2749.8 | 778.6 | 233.1 | 174.5 | 127.6 | 104.2 | 87.2 | 75.5 | 66.4 | 65.1 |
| 45° | 3782.3 | 2804.5 | 597.6 | 212.2 | 151.0 | 110.7 | 89.8 | 74.2 | 62.5 | 54.7 | 53.4 |
| 47.5° | 4110.4 | 2967.2 | 453.1 | 194.0 | 131.5 | 96.3 | 76.8 | 62.5 | 52.1 | 45.6 | 44.3 |
| 50° | 4632.5 | 3261.5 | 356.7 | 171.9 | 110.7 | 83.3 | 65.1 | 52.1 | 43.0 | 36.5 | 35.2 |
| 52.5° | 5260.1 | 3702.9 | 306.0 | 152.3 | 95.0 | 72.9 | 56.0 | 43.0 | 35.2 | 29.9 | 28.6 |
| 55° | 5981.4 | 4230.2 | 282.5 | 132.8 | 80.7 | 62.5 | 45.6 | 35.2 | 28.6 | 24.7 | 22.1 |
| 57.5° | 6642.8 | 4705.4 | 281.2 | 113.3 | 69.0 | 53.4 | 37.8 | 29.9 | 24.7 | 19.5 | 18.2 |
| 60° | 7287.3 | 5102.5 | 264.3 | 93.7 | 59.9 | 44.3 | 32.5 | 24.7 | 20.8 | 16.9 | 15.6 |
| 62.5° | 7871.8 | 5425.4 | 221.3 | 75.5 | 50.8 | 36.5 | 27.3 | 22.1 | 18.2 | 14.3 | 14.3 |
| 65° | 8606.2 | 5836.8 | 169.3 | 61.2 | 41.7 | 29.9 | 23.4 | 19.5 | 16.9 | 13.0 | 13.0 |
| 67.5° | 9365.2 | 6054.3 | 121.1 | 50.8 | 33.9 | 26.0 | 20.8 | 18.2 | 14.3 | 11.7 | 11.7 |
| 70° | 8482.5 | 5115.5 | 87.2 | 41.7 | 28.6 | 22.1 | 18.2 | 16.9 | 14.3 | 11.7 | 10.4 |
| 72.5° | 6624.5 | 3688.5 | 65.1 | 32.5 | 24.7 | 20.8 | 16.9 | 15.6 | 13.0 | 10.4 | 10.4 |
| 75° | 4912.4 | 2150.9 | 49.5 | 26.0 | 19.5 | 16.9 | 16.9 | 15.6 | 13.0 | 10.4 | 9.1 |
| 77.5° | 2670.4 | 749.9 | 37.8 | 20.8 | 15.6 | 13.0 | 14.3 | 14.3 | 11.7 | 9.1 | 7.8 |
| 80° | 707.0 | 205.7 | 26.0 | 15.6 | 13.0 | 10.4 | 10.4 | 13.0 | 10.4 | 7.8 | 7.8 |
| 82.5° | 205.7 | 59.9 | 18.2 | 13.0 | 10.4 | 9.1 | 9.1 | 9.1 | 7.8 | 6.5 | 5.2 |
| 85° | 100.3 | 22.1 | 13.0 | 10.4 | 9.1 | 7.8 | 6.5 | 6.5 | 5.2 | 3.9 | 3.9 |
| 87.5° | 44.3 | 9.1 | 10.4 | 9.1 | 9.1 | 6.5 | 5.2 | 3.9 | 3.9 | 2.6 | 1.3 |
| 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)