

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: P640047

Luminaire Tested: GWS-SA5D-722-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-722-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21938.4 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

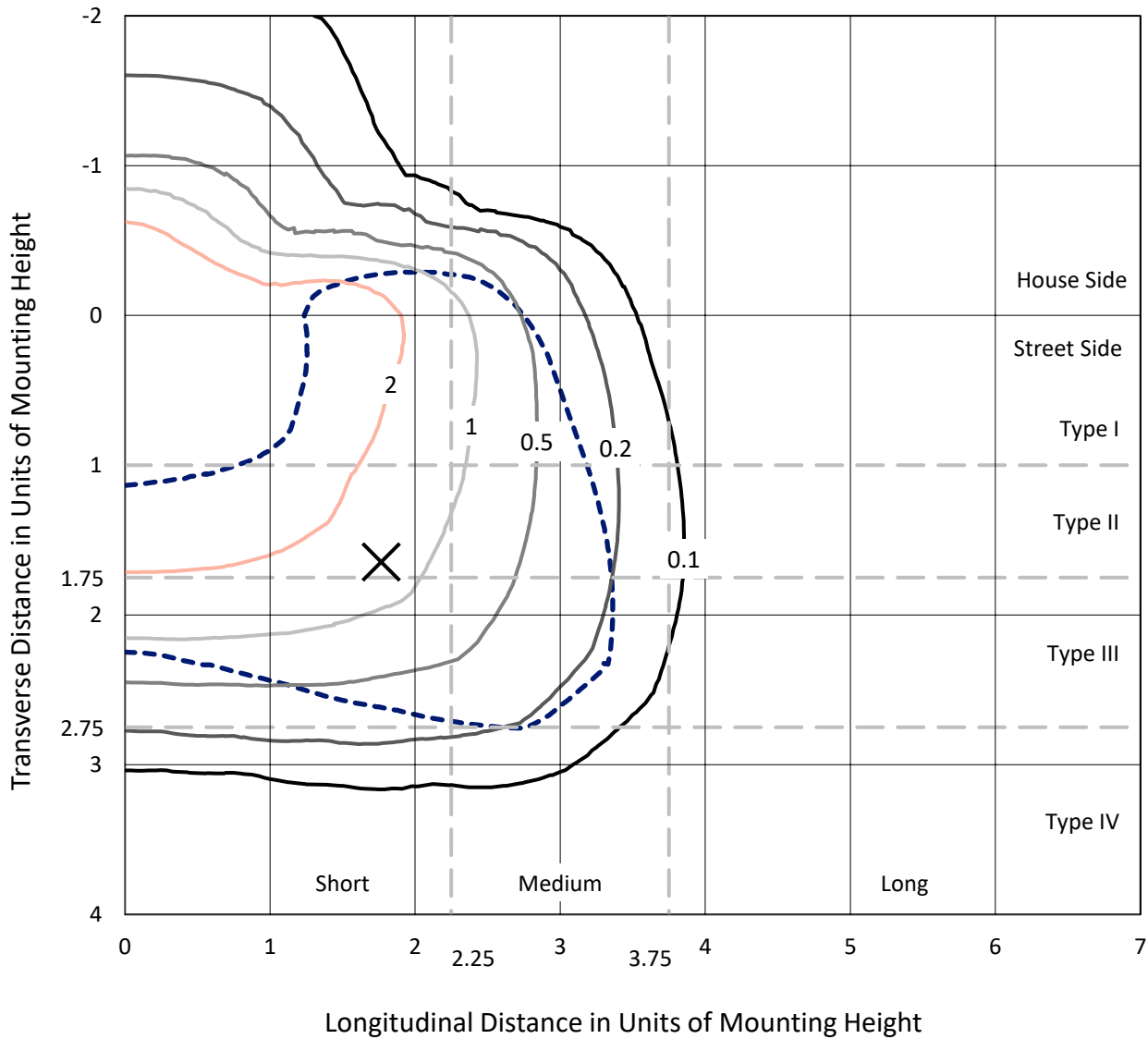
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

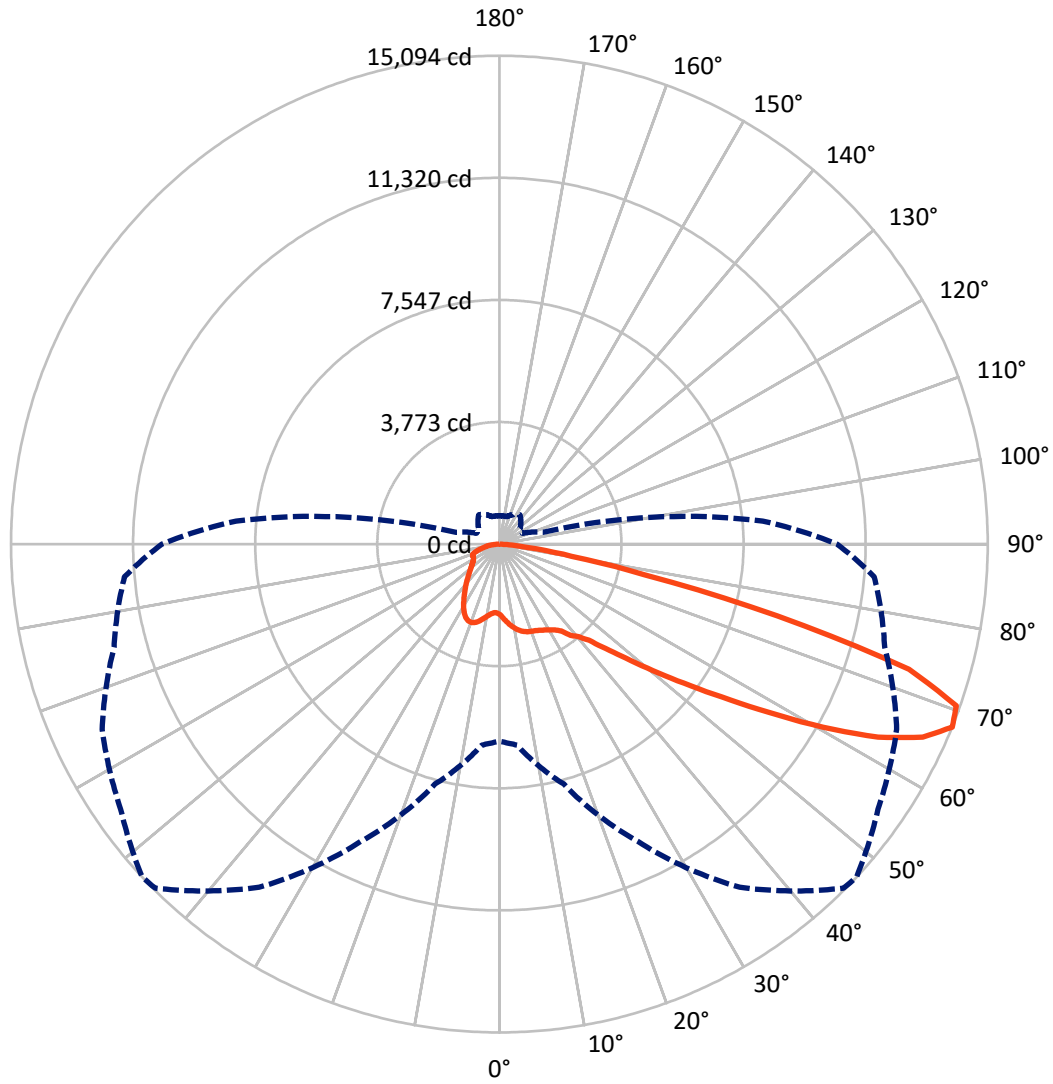
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4999.9 | 0.0 | 4999.9 |
| | % Fixture | 22.8 | 0.0 | 22.8 |
| Street Side | Lumens | 16938.5 | 0.0 | 16938.5 |
| | % Fixture | 77.2 | 0.0 | 77.2 |
| Total | Lumens | 21938.4 | 0.0 | 21938.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 222.3 | 1.0 |
| 10°-20° | 740.5 | 3.4 |
| 20°-30° | 1258.7 | 5.7 |
| 30°-40° | 1843.8 | 8.4 |
| 40°-50° | 2809.3 | 12.8 |
| 50°-60° | 5026.4 | 22.9 |
| 60°-70° | 6707.2 | 30.6 |
| 70°-80° | 3033.1 | 13.8 |
| 80°-90° | 297.2 | 1.4 |
| 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° | 21938.4 | 100.0 |
| 0°-180° | 21938.4 | 100.0 |

Coefficient of Utilization



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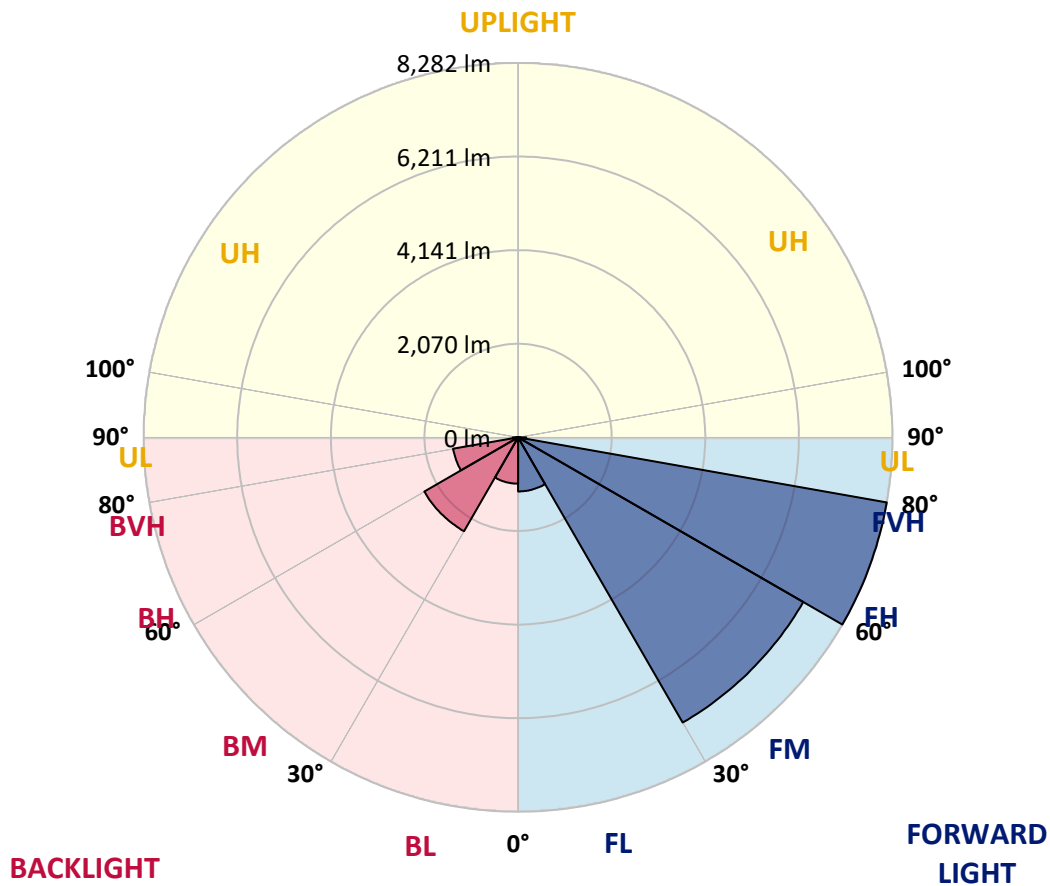
CATALOG NUMBER: GWS-SA5D-722-U-T4W-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1196.4 | 5.5 | | | |
| FM (30°-60°) | 7283.8 | 33.2 | | | |
| FH (60°-80°) | 8281.5 | 37.7 | | | G4/12000 |
| FVH (80°-90°) | 176.8 | 0.8 | | | G2/225 |
| BL (0°-30°) | 1025.0 | 4.7 | B3/2500 | | |
| BM (30°-60°) | 2395.7 | 10.9 | B2/2500 | | |
| BH (60°-80°) | 1458.8 | 6.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 120.4 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2174.8 | 2174.8 | 2174.8 | 2174.8 | 2174.8 | 2174.8 | 2174.8 | 2174.8 | 2174.8 | 2174.8 | 2174.8 |
| 2.5° | 2319.1 | 2327.1 | 2325.5 | 2312.8 | 2304.9 | 2290.6 | 2292.2 | 2270.0 | 2236.7 | 2214.4 | 2189.1 |
| 5° | 2523.8 | 2536.5 | 2520.6 | 2500.0 | 2468.3 | 2422.2 | 2417.5 | 2366.7 | 2303.3 | 2258.9 | 2212.9 |
| 7.5° | 2701.4 | 2709.4 | 2690.3 | 2655.4 | 2609.4 | 2547.6 | 2536.5 | 2476.2 | 2396.9 | 2327.1 | 2260.4 |
| 10° | 2839.4 | 2849.0 | 2823.6 | 2777.6 | 2717.3 | 2655.4 | 2647.5 | 2585.6 | 2501.6 | 2419.1 | 2335.0 |
| 12.5° | 2956.8 | 2960.0 | 2933.0 | 2871.2 | 2806.1 | 2742.7 | 2734.7 | 2677.6 | 2599.9 | 2515.8 | 2423.8 |
| 15° | 3025.0 | 3026.6 | 2993.3 | 2925.1 | 2863.2 | 2807.7 | 2803.0 | 2753.8 | 2682.4 | 2603.1 | 2504.7 |
| 17.5° | 3020.3 | 3023.4 | 2999.7 | 2939.4 | 2885.4 | 2852.1 | 2847.4 | 2815.6 | 2760.1 | 2688.7 | 2590.4 |
| 20° | 2961.6 | 2964.8 | 2948.9 | 2909.2 | 2880.7 | 2871.2 | 2872.8 | 2863.2 | 2829.9 | 2771.2 | 2671.3 |
| 22.5° | 2915.6 | 2920.3 | 2906.1 | 2877.5 | 2874.3 | 2896.5 | 2901.3 | 2906.1 | 2890.2 | 2837.9 | 2741.1 |
| 25° | 2937.8 | 2945.7 | 2923.5 | 2883.9 | 2890.2 | 2939.4 | 2948.9 | 2964.8 | 2952.1 | 2907.7 | 2823.6 |
| 27.5° | 3091.7 | 3096.4 | 3039.3 | 2958.4 | 2939.4 | 2991.7 | 3006.0 | 3031.4 | 3021.9 | 2980.6 | 2915.6 |
| 30° | 3448.6 | 3445.4 | 3323.3 | 3125.0 | 3045.7 | 3066.3 | 3077.4 | 3113.9 | 3117.0 | 3090.1 | 3028.2 |
| 32.5° | 3951.4 | 3935.6 | 3746.8 | 3431.1 | 3201.1 | 3150.4 | 3163.0 | 3212.2 | 3248.7 | 3220.1 | 3136.1 |
| 35° | 4482.8 | 4468.6 | 4260.7 | 3891.1 | 3488.2 | 3312.2 | 3297.9 | 3335.9 | 3391.5 | 3312.2 | 3191.6 |
| 37.5° | 4988.9 | 4966.6 | 4754.1 | 4297.2 | 3842.0 | 3596.1 | 3575.5 | 3537.4 | 3504.1 | 3351.8 | 3259.8 |
| 40° | 5550.4 | 5525.0 | 5339.4 | 4822.3 | 4232.2 | 3813.4 | 3761.1 | 3610.4 | 3580.2 | 3483.5 | 3437.5 |
| 42.5° | 6150.0 | 6150.0 | 5996.1 | 5486.9 | 4703.3 | 4124.3 | 4056.1 | 3829.3 | 3861.0 | 3797.6 | 3743.6 |
| 45° | 6749.6 | 6767.1 | 6644.9 | 6156.4 | 5333.1 | 4711.3 | 4601.8 | 4279.8 | 4355.9 | 4327.4 | 4300.4 |
| 47.5° | 7260.4 | 7293.7 | 7269.9 | 6840.0 | 6104.0 | 5425.1 | 5258.5 | 4923.8 | 5087.2 | 5155.4 | 5231.6 |
| 50° | 7810.8 | 7847.3 | 7823.5 | 7653.8 | 7006.6 | 6289.6 | 6140.5 | 5794.7 | 6075.5 | 6280.1 | 6529.1 |
| 52.5° | 8627.8 | 8680.1 | 8481.8 | 8416.8 | 8102.7 | 7271.5 | 7138.3 | 6744.9 | 7254.1 | 7593.5 | 8148.7 |
| 55° | 9317.8 | 9316.2 | 9246.4 | 9395.5 | 9279.7 | 8472.3 | 8324.8 | 7967.9 | 8618.3 | 8978.3 | 9790.5 |
| 57.5° | 9638.2 | 9676.3 | 9915.8 | 10337.8 | 10569.4 | 9939.6 | 9798.5 | 9433.6 | 10082.4 | 10269.6 | 11146.8 |
| 60° | 9803.2 | 9850.8 | 10314.0 | 11148.4 | 11771.8 | 11541.8 | 11486.3 | 11021.5 | 11386.3 | 11364.1 | 12290.5 |
| 62.5° | 9571.6 | 9666.8 | 10410.8 | 11519.6 | 12630.0 | 13151.8 | 13134.4 | 12431.7 | 12495.1 | 12277.8 | 12999.6 |
| 65° | 8508.8 | 8611.9 | 9779.4 | 11334.0 | 13120.1 | 14376.5 | 14381.2 | 13708.6 | 13347.0 | 12722.0 | 12880.6 |
| 67.5° | 6085.0 | 6232.5 | 7676.0 | 10141.1 | 12947.2 | 15037.9 | 15093.5 | 14287.6 | 13546.8 | 12328.6 | 11630.6 |
| 70° | 3316.9 | 3424.8 | 4555.8 | 7371.4 | 11389.5 | 14879.3 | 14982.4 | 14008.4 | 12664.9 | 10664.6 | 8953.0 |
| 72.5° | 1507.0 | 1541.9 | 2119.3 | 4045.0 | 7780.7 | 12807.6 | 13239.1 | 12501.5 | 10401.2 | 7877.5 | 5693.2 |
| 75° | 690.0 | 705.9 | 923.2 | 1935.3 | 4065.6 | 8570.7 | 8873.6 | 9311.5 | 7238.2 | 4974.6 | 2967.9 |
| 77.5° | 433.1 | 437.8 | 525.1 | 885.1 | 2027.3 | 4278.2 | 4597.0 | 5544.0 | 4238.5 | 2461.9 | 1240.5 |
| 80° | 255.4 | 260.1 | 326.8 | 479.1 | 951.8 | 1957.5 | 2260.4 | 2192.2 | 1992.4 | 1062.8 | 564.7 |
| 82.5° | 128.5 | 133.2 | 188.8 | 272.8 | 518.7 | 778.9 | 916.9 | 921.6 | 742.4 | 575.8 | 318.8 |
| 85° | 46.0 | 47.6 | 61.9 | 107.9 | 220.5 | 257.0 | 287.1 | 350.6 | 363.3 | 334.7 | 153.9 |
| 87.5° | 0.0 | 0.0 | 1.6 | 3.2 | 6.3 | 25.4 | 27.0 | 50.8 | 106.3 | 119.0 | 61.9 |
| 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-SA5D-722-U-T4W-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2174.8 | 2174.8 | 2174.8 | 2174.8 | 2174.8 | 2174.8 | 2174.8 | 2174.8 | 2174.8 | 2174.8 | 2174.8 |
| 2.5° | 2181.1 | 2157.3 | 2149.4 | 2141.5 | 2128.8 | 2124.0 | 2114.5 | 2105.0 | 2105.0 | 2095.5 | 2090.7 |
| 5° | 2192.2 | 2160.5 | 2139.9 | 2130.4 | 2122.4 | 2127.2 | 2127.2 | 2130.4 | 2141.5 | 2135.1 | 2138.3 |
| 7.5° | 2231.9 | 2195.4 | 2166.9 | 2158.9 | 2158.9 | 2178.0 | 2190.7 | 2206.5 | 2227.1 | 2230.3 | 2230.3 |
| 10° | 2301.7 | 2258.9 | 2228.7 | 2224.0 | 2231.9 | 2258.9 | 2277.9 | 2296.9 | 2322.3 | 2323.9 | 2327.1 |
| 12.5° | 2377.8 | 2335.0 | 2304.9 | 2311.2 | 2319.1 | 2354.0 | 2374.7 | 2390.5 | 2415.9 | 2415.9 | 2414.3 |
| 15° | 2457.1 | 2409.6 | 2384.2 | 2396.9 | 2420.7 | 2460.3 | 2463.5 | 2465.1 | 2477.8 | 2474.6 | 2473.0 |
| 17.5° | 2539.6 | 2488.9 | 2469.8 | 2488.9 | 2514.3 | 2533.3 | 2517.4 | 2495.2 | 2490.5 | 2484.1 | 2480.9 |
| 20° | 2620.5 | 2568.2 | 2560.3 | 2574.5 | 2582.5 | 2566.6 | 2517.4 | 2476.2 | 2457.1 | 2447.6 | 2444.5 |
| 22.5° | 2690.3 | 2645.9 | 2641.2 | 2641.2 | 2601.5 | 2546.0 | 2473.0 | 2417.5 | 2392.1 | 2379.4 | 2376.2 |
| 25° | 2772.8 | 2731.6 | 2723.6 | 2680.8 | 2579.3 | 2477.8 | 2379.4 | 2328.7 | 2308.0 | 2301.7 | 2303.3 |
| 27.5° | 2869.6 | 2841.0 | 2815.6 | 2693.5 | 2515.8 | 2357.2 | 2246.2 | 2224.0 | 2216.0 | 2224.0 | 2228.7 |
| 30° | 2988.6 | 2960.0 | 2902.9 | 2677.6 | 2414.3 | 2200.2 | 2093.9 | 2092.3 | 2116.1 | 2136.7 | 2139.9 |
| 32.5° | 3085.3 | 3072.6 | 2979.0 | 2626.9 | 2271.6 | 2027.3 | 1936.8 | 1943.2 | 1986.0 | 2014.6 | 2019.3 |
| 35° | 3161.5 | 3182.1 | 3042.5 | 2542.8 | 2101.8 | 1863.9 | 1792.5 | 1795.7 | 1819.5 | 1859.1 | 1860.7 |
| 37.5° | 3269.3 | 3339.1 | 3099.6 | 2414.3 | 1906.7 | 1722.7 | 1657.7 | 1633.9 | 1630.7 | 1641.8 | 1645.0 |
| 40° | 3486.6 | 3591.3 | 3140.8 | 2227.1 | 1717.9 | 1595.8 | 1522.8 | 1476.8 | 1437.2 | 1407.0 | 1397.5 |
| 42.5° | 3815.0 | 3935.6 | 3164.6 | 2000.3 | 1549.8 | 1470.5 | 1388.0 | 1329.3 | 1259.5 | 1196.1 | 1173.8 |
| 45° | 4417.8 | 4457.4 | 3164.6 | 1759.2 | 1400.7 | 1353.1 | 1270.6 | 1200.8 | 1112.0 | 1037.4 | 1021.6 |
| 47.5° | 5382.2 | 5255.3 | 3167.8 | 1526.0 | 1269.0 | 1250.0 | 1178.6 | 1099.3 | 1000.9 | 939.1 | 929.6 |
| 50° | 6835.3 | 6389.5 | 3232.8 | 1332.5 | 1159.6 | 1162.7 | 1110.4 | 1023.2 | 934.3 | 888.3 | 880.4 |
| 52.5° | 8481.8 | 7787.0 | 3407.3 | 1189.7 | 1067.6 | 1091.4 | 1062.8 | 978.7 | 899.4 | 859.8 | 851.8 |
| 55° | 10030.0 | 9071.9 | 3556.4 | 1088.2 | 989.8 | 1031.1 | 1029.5 | 951.8 | 880.4 | 840.7 | 836.0 |
| 57.5° | 11346.7 | 9952.3 | 3534.2 | 1005.7 | 923.2 | 975.6 | 999.4 | 934.3 | 867.7 | 834.4 | 829.6 |
| 60° | 12165.2 | 10418.7 | 3218.6 | 929.6 | 872.5 | 935.9 | 981.9 | 929.6 | 874.0 | 866.1 | 867.7 |
| 62.5° | 12520.5 | 10333.0 | 2612.6 | 872.5 | 839.1 | 916.9 | 1000.9 | 962.9 | 932.7 | 951.8 | 962.9 |
| 65° | 11968.5 | 9597.0 | 1922.6 | 829.6 | 807.4 | 921.6 | 1045.4 | 1015.2 | 932.7 | 945.4 | 950.2 |
| 67.5° | 10436.1 | 8169.3 | 1389.6 | 786.8 | 767.8 | 935.9 | 1108.8 | 1007.3 | 878.8 | 878.8 | 869.3 |
| 70° | 7520.6 | 5875.6 | 1008.9 | 744.0 | 728.1 | 915.3 | 1112.0 | 953.4 | 816.9 | 812.2 | 788.4 |
| 72.5° | 4525.7 | 3466.0 | 786.8 | 696.4 | 667.8 | 812.2 | 1042.2 | 889.9 | 756.7 | 717.0 | 688.4 |
| 75° | 2350.9 | 1737.0 | 659.9 | 644.0 | 572.6 | 688.4 | 953.4 | 791.6 | 647.2 | 612.3 | 596.4 |
| 77.5° | 1007.3 | 812.2 | 566.3 | 574.2 | 475.9 | 579.0 | 769.3 | 685.3 | 574.2 | 529.8 | 515.5 |
| 80° | 496.5 | 461.6 | 447.3 | 460.0 | 380.7 | 447.3 | 663.1 | 599.6 | 487.0 | 436.2 | 415.6 |
| 82.5° | 283.9 | 269.7 | 322.0 | 326.8 | 271.3 | 374.4 | 560.0 | 507.6 | 402.9 | 347.4 | 314.1 |
| 85° | 131.7 | 141.2 | 195.1 | 196.7 | 168.1 | 257.0 | 366.4 | 285.5 | 214.1 | 177.7 | 169.7 |
| 87.5° | 52.3 | 61.9 | 85.7 | 84.1 | 49.2 | 47.6 | 31.7 | 17.4 | 14.3 | 12.7 | 11.1 |
| 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)