

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: P633912

Luminaire Tested: GWS-SA2F-760-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-760-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12895.7 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

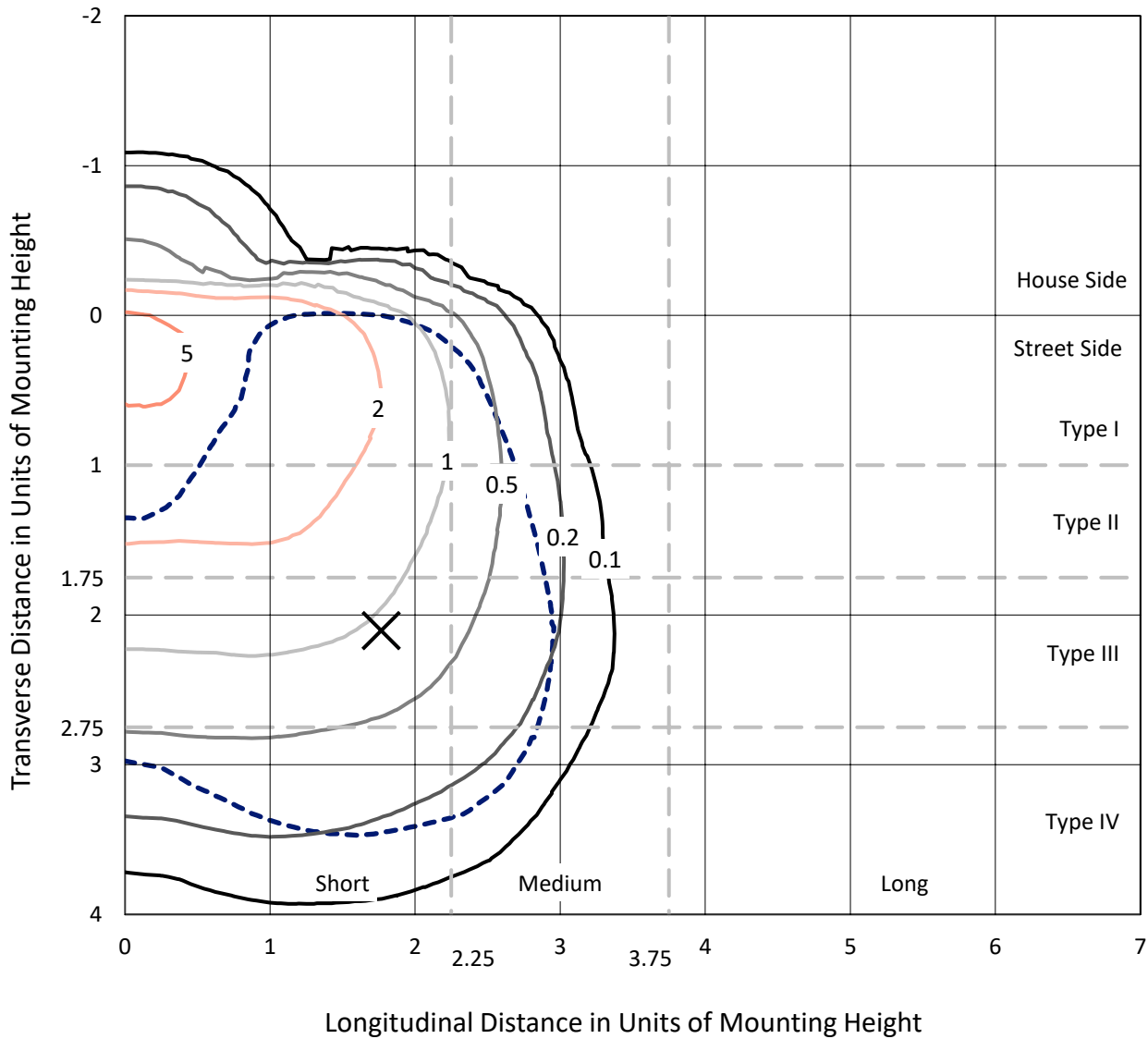
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

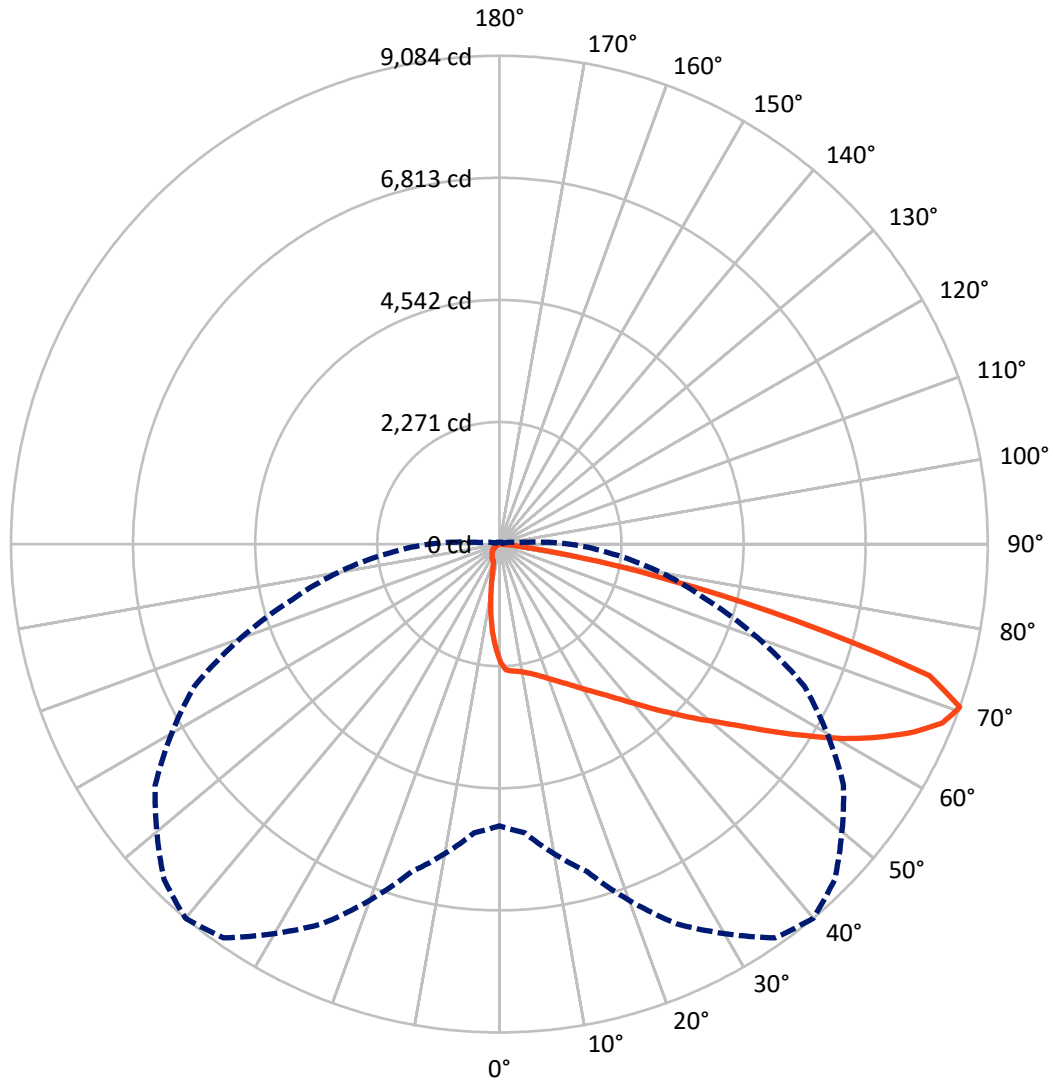
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1054.6 | 0.0 | 1054.6 |
| | % Fixture | 8.2 | 0.0 | 8.2 |
| Street Side | Lumens | 11841.2 | 0.0 | 11841.2 |
| | % Fixture | 91.8 | 0.0 | 91.8 |
| Total | Lumens | 12895.7 | 0.0 | 12895.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 185.0 | 1.4 |
| 10°-20° | 469.1 | 3.6 |
| 20°-30° | 785.1 | 6.1 |
| 30°-40° | 1233.1 | 9.6 |
| 40°-50° | 1950.4 | 15.1 |
| 50°-60° | 2845.2 | 22.1 |
| 60°-70° | 3527.0 | 27.4 |
| 70°-80° | 1784.5 | 13.8 |
| 80°-90° | 116.5 | 0.9 |
| 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° | 12895.7 | 100.0 |
| 0°-180° | 12895.7 | 100.0 |

Coefficient of Utilization



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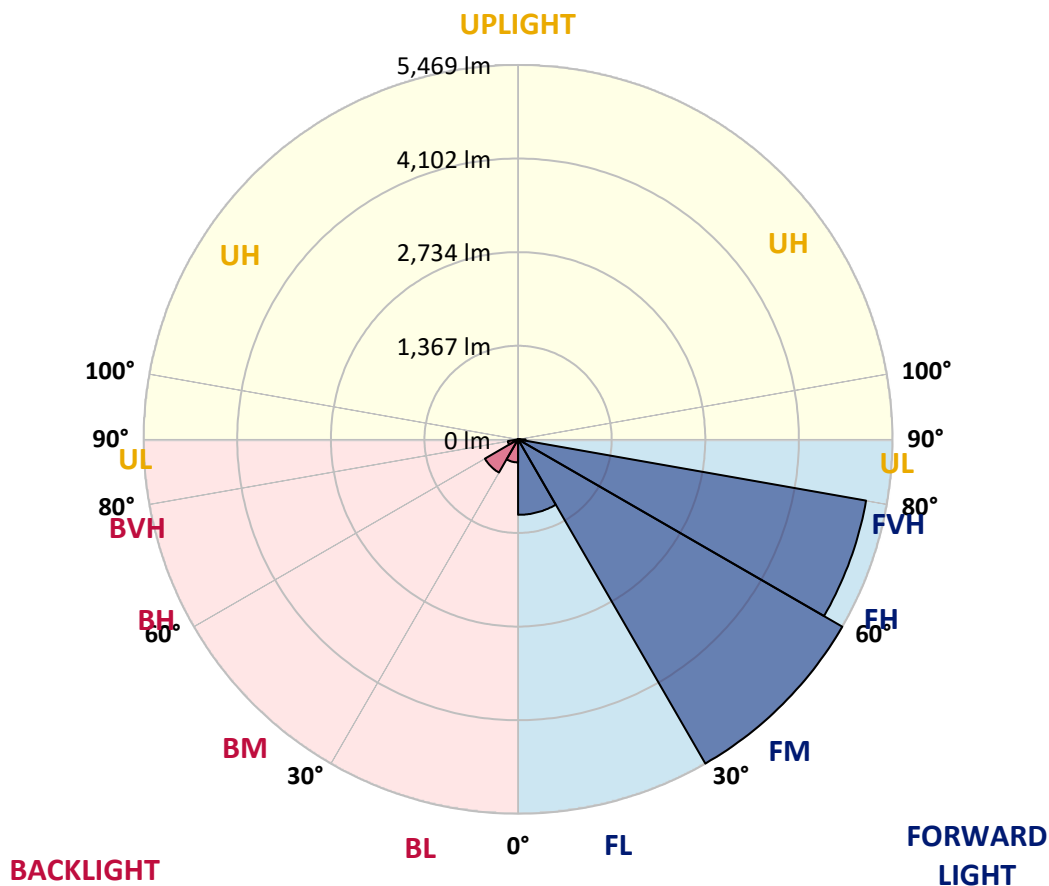
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1102.3 | 8.5 | | | |
| FM (30°-60°) | 5468.9 | 42.4 | | | |
| FH (60°-80°) | 5161.1 | 40.0 | | | G3/7500 |
| FVH (80°-90°) | 108.8 | 0.8 | | | G2/225 |
| BL (0°-30°) | 336.8 | 2.6 | B1/500 | | |
| BM (30°-60°) | 559.7 | 4.3 | B1/1000 | | |
| BH (60°-80°) | 150.4 | 1.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 7.7 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 |
| 2.5° | 2352.5 | 2360.7 | 2359.6 | 2363.1 | 2354.9 | 2342.0 | 2339.6 | 2322.0 | 2290.3 | 2250.4 | 2205.8 |
| 5° | 2400.6 | 2410.0 | 2403.0 | 2399.4 | 2384.2 | 2370.1 | 2366.6 | 2347.8 | 2311.4 | 2257.5 | 2180.0 |
| 7.5° | 2441.7 | 2444.0 | 2439.3 | 2431.1 | 2408.8 | 2390.1 | 2377.2 | 2351.3 | 2307.9 | 2254.0 | 2164.8 |
| 10° | 2448.7 | 2447.5 | 2449.9 | 2451.1 | 2437.0 | 2420.6 | 2410.0 | 2374.8 | 2319.7 | 2262.2 | 2166.0 |
| 12.5° | 2440.5 | 2440.5 | 2455.8 | 2473.4 | 2473.4 | 2465.1 | 2454.6 | 2422.9 | 2358.4 | 2290.3 | 2189.4 |
| 15° | 2451.1 | 2454.6 | 2483.9 | 2516.8 | 2527.3 | 2519.1 | 2514.4 | 2481.6 | 2414.7 | 2339.6 | 2231.7 |
| 17.5° | 2488.6 | 2492.1 | 2539.1 | 2588.3 | 2601.3 | 2591.9 | 2582.5 | 2549.6 | 2478.1 | 2395.9 | 2279.8 |
| 20° | 2543.8 | 2553.1 | 2613.0 | 2676.3 | 2688.1 | 2676.3 | 2657.6 | 2611.8 | 2540.2 | 2456.9 | 2325.5 |
| 22.5° | 2644.7 | 2650.5 | 2715.1 | 2781.9 | 2787.8 | 2769.0 | 2740.9 | 2677.5 | 2602.4 | 2521.5 | 2377.2 |
| 25° | 2778.4 | 2786.6 | 2851.2 | 2915.7 | 2900.5 | 2872.3 | 2833.6 | 2762.0 | 2676.3 | 2597.7 | 2442.9 |
| 27.5° | 2938.0 | 2947.4 | 3010.7 | 3067.1 | 3027.2 | 2994.3 | 2950.9 | 2861.7 | 2774.9 | 2703.3 | 2527.3 |
| 30° | 3110.5 | 3118.7 | 3175.0 | 3225.5 | 3172.7 | 3133.9 | 3082.3 | 2990.8 | 2902.8 | 2848.8 | 2647.0 |
| 32.5° | 3277.1 | 3275.9 | 3329.9 | 3371.0 | 3317.0 | 3286.5 | 3239.5 | 3146.8 | 3076.5 | 3053.0 | 2825.4 |
| 35° | 3432.0 | 3432.0 | 3476.6 | 3517.6 | 3478.9 | 3462.5 | 3419.1 | 3345.1 | 3305.2 | 3333.4 | 3063.5 |
| 37.5° | 3588.0 | 3579.8 | 3622.0 | 3667.8 | 3664.3 | 3665.5 | 3640.8 | 3605.6 | 3608.0 | 3707.7 | 3390.9 |
| 40° | 3717.1 | 3713.6 | 3762.8 | 3822.7 | 3869.6 | 3907.2 | 3891.9 | 3904.8 | 3978.7 | 4165.3 | 3809.8 |
| 42.5° | 3820.3 | 3828.5 | 3891.9 | 3986.9 | 4105.5 | 4181.7 | 4192.3 | 4245.1 | 4435.2 | 4723.8 | 4282.6 |
| 45° | 3938.8 | 3940.0 | 4028.0 | 4173.5 | 4362.4 | 4483.3 | 4525.5 | 4661.6 | 4931.5 | 5303.4 | 4801.2 |
| 47.5° | 4084.3 | 4070.3 | 4168.8 | 4373.0 | 4646.4 | 4824.7 | 4899.8 | 5069.9 | 5487.6 | 5869.0 | 5223.6 |
| 50° | 4245.1 | 4219.3 | 4330.7 | 4608.8 | 4964.3 | 5187.3 | 5339.8 | 5588.5 | 6039.1 | 6333.6 | 5538.1 |
| 52.5° | 4431.6 | 4407.0 | 4533.7 | 4879.8 | 5345.7 | 5616.7 | 5812.6 | 6063.7 | 6511.9 | 6687.9 | 5725.8 |
| 55° | 4668.6 | 4644.0 | 4777.8 | 5204.9 | 5796.2 | 6148.2 | 6353.5 | 6564.7 | 6951.9 | 6949.6 | 5861.9 |
| 57.5° | 4931.5 | 4897.4 | 5082.8 | 5615.5 | 6358.2 | 6724.3 | 6933.2 | 7036.4 | 7286.3 | 7152.6 | 5953.4 |
| 60° | 5233.0 | 5202.5 | 5459.5 | 6104.8 | 7007.1 | 7346.2 | 7477.6 | 7435.3 | 7560.9 | 7272.3 | 5921.8 |
| 62.5° | 5505.2 | 5491.1 | 5810.3 | 6623.4 | 7625.4 | 7911.7 | 7948.1 | 7763.9 | 7762.7 | 7274.6 | 5708.2 |
| 65° | 5788.0 | 5815.0 | 6289.0 | 7220.6 | 8247.3 | 8439.7 | 8377.5 | 8090.1 | 7843.7 | 6987.1 | 5077.0 |
| 67.5° | 5893.6 | 5972.2 | 6604.6 | 7760.4 | 8737.7 | 8887.9 | 8778.8 | 8253.1 | 7506.9 | 6020.3 | 3866.1 |
| 70° | 5241.2 | 5389.1 | 6306.6 | 7790.9 | 8940.7 | 9083.9 | 8822.2 | 7814.3 | 6258.5 | 3988.1 | 2117.8 |
| 72.5° | 3985.8 | 4158.3 | 5255.3 | 6379.4 | 8040.8 | 8367.0 | 7919.9 | 6366.4 | 4033.9 | 1747.1 | 711.0 |
| 75° | 2230.5 | 2417.0 | 3914.2 | 4803.6 | 5398.5 | 5696.5 | 5532.2 | 4084.3 | 1787.0 | 456.4 | 212.4 |
| 77.5° | 754.4 | 816.6 | 1821.0 | 2972.0 | 3563.4 | 3295.9 | 2790.2 | 2028.7 | 657.1 | 173.7 | 112.6 |
| 80° | 447.0 | 470.5 | 678.2 | 1479.6 | 1875.0 | 1554.7 | 1227.3 | 749.8 | 334.4 | 92.7 | 78.6 |
| 82.5° | 133.8 | 158.4 | 374.3 | 549.1 | 734.5 | 457.6 | 387.2 | 428.3 | 173.7 | 50.5 | 65.7 |
| 85° | 0.0 | 0.0 | 79.8 | 170.1 | 192.4 | 75.1 | 75.1 | 242.9 | 31.7 | 21.1 | 48.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 5.9 | 3.5 | 4.7 | 10.6 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 |
| 2.5° | 2174.2 | 2133.1 | 2085.0 | 2039.2 | 1995.8 | 1939.5 | 1912.5 | 1879.7 | 1851.5 | 1836.2 | 1844.5 |
| 5° | 2130.8 | 2066.2 | 1967.7 | 1867.9 | 1767.0 | 1672.0 | 1586.3 | 1528.8 | 1477.2 | 1450.2 | 1456.1 |
| 7.5° | 2093.2 | 2006.4 | 1852.7 | 1689.6 | 1527.7 | 1364.6 | 1232.0 | 1128.7 | 1048.9 | 1016.1 | 1010.2 |
| 10° | 2076.8 | 1967.7 | 1750.6 | 1515.9 | 1267.2 | 1047.8 | 860.0 | 746.2 | 665.3 | 625.4 | 632.4 |
| 12.5° | 2085.0 | 1947.7 | 1663.8 | 1345.8 | 1023.1 | 767.4 | 587.8 | 481.1 | 423.6 | 400.1 | 394.2 |
| 15° | 2108.5 | 1943.0 | 1586.3 | 1172.1 | 789.6 | 536.2 | 406.0 | 362.6 | 350.8 | 348.5 | 348.5 |
| 17.5° | 2135.4 | 1944.2 | 1506.5 | 996.2 | 599.6 | 397.8 | 347.3 | 339.1 | 335.6 | 333.2 | 334.4 |
| 20° | 2162.4 | 1944.2 | 1415.0 | 817.8 | 450.6 | 343.8 | 330.9 | 325.0 | 321.5 | 320.3 | 320.3 |
| 22.5° | 2195.3 | 1944.2 | 1312.9 | 652.4 | 361.4 | 326.2 | 315.6 | 312.1 | 308.6 | 307.4 | 306.2 |
| 25° | 2235.2 | 1945.4 | 1200.3 | 510.4 | 328.5 | 310.9 | 302.7 | 299.2 | 295.7 | 293.3 | 293.3 |
| 27.5° | 2292.7 | 1954.8 | 1075.9 | 397.8 | 309.8 | 296.9 | 289.8 | 286.3 | 282.8 | 279.3 | 279.3 |
| 30° | 2376.0 | 1978.2 | 936.3 | 328.5 | 292.2 | 281.6 | 274.6 | 272.2 | 268.7 | 265.2 | 264.0 |
| 32.5° | 2500.3 | 2019.3 | 792.0 | 294.5 | 275.7 | 265.2 | 257.0 | 254.6 | 251.1 | 247.6 | 246.4 |
| 35° | 2674.0 | 2094.4 | 651.2 | 273.4 | 254.6 | 244.1 | 239.4 | 238.2 | 233.5 | 230.0 | 230.0 |
| 37.5° | 2928.6 | 2216.4 | 516.3 | 252.3 | 237.0 | 228.8 | 222.9 | 220.6 | 215.9 | 212.4 | 211.2 |
| 40° | 3239.5 | 2374.8 | 401.3 | 235.8 | 220.6 | 212.4 | 206.5 | 203.0 | 197.1 | 192.4 | 190.1 |
| 42.5° | 3636.1 | 2568.4 | 316.8 | 218.2 | 205.3 | 197.1 | 192.4 | 185.4 | 177.2 | 170.1 | 169.0 |
| 45° | 4049.1 | 2767.9 | 261.7 | 201.8 | 191.3 | 184.2 | 178.3 | 169.0 | 157.2 | 149.0 | 146.7 |
| 47.5° | 4365.9 | 2892.2 | 228.8 | 184.2 | 176.0 | 170.1 | 163.1 | 151.4 | 137.3 | 127.9 | 125.5 |
| 50° | 4592.4 | 2911.0 | 204.2 | 167.8 | 163.1 | 157.2 | 146.7 | 132.6 | 117.3 | 107.9 | 105.6 |
| 52.5° | 4703.8 | 2826.5 | 184.2 | 152.5 | 149.0 | 143.1 | 130.2 | 115.0 | 98.6 | 89.2 | 86.8 |
| 55° | 4754.3 | 2667.0 | 165.4 | 139.6 | 134.9 | 127.9 | 113.8 | 97.4 | 81.0 | 72.7 | 70.4 |
| 57.5° | 4734.4 | 2431.1 | 149.0 | 126.7 | 120.9 | 112.6 | 97.4 | 79.8 | 66.9 | 58.7 | 57.5 |
| 60° | 4586.5 | 2100.2 | 132.6 | 113.8 | 106.8 | 97.4 | 82.1 | 65.7 | 54.0 | 48.1 | 46.9 |
| 62.5° | 4267.4 | 1689.6 | 116.2 | 98.6 | 93.9 | 84.5 | 70.4 | 54.0 | 44.6 | 41.1 | 39.9 |
| 65° | 3613.8 | 1194.4 | 99.7 | 83.3 | 81.0 | 71.6 | 58.7 | 44.6 | 38.7 | 36.4 | 35.2 |
| 67.5° | 2597.7 | 726.3 | 84.5 | 71.6 | 69.2 | 61.0 | 49.3 | 38.7 | 35.2 | 34.0 | 34.0 |
| 70° | 1305.9 | 343.8 | 66.9 | 58.7 | 58.7 | 50.5 | 42.2 | 35.2 | 34.0 | 32.9 | 32.9 |
| 72.5° | 443.5 | 146.7 | 50.5 | 45.8 | 48.1 | 43.4 | 36.4 | 32.9 | 32.9 | 32.9 | 32.9 |
| 75° | 151.4 | 77.4 | 35.2 | 32.9 | 35.2 | 35.2 | 31.7 | 31.7 | 32.9 | 32.9 | 32.9 |
| 77.5° | 98.6 | 51.6 | 24.6 | 22.3 | 27.0 | 27.0 | 27.0 | 29.3 | 31.7 | 31.7 | 31.7 |
| 80° | 81.0 | 28.2 | 16.4 | 15.3 | 19.9 | 19.9 | 22.3 | 27.0 | 29.3 | 29.3 | 29.3 |
| 82.5° | 69.2 | 17.6 | 9.4 | 10.6 | 14.1 | 15.3 | 18.8 | 22.3 | 25.8 | 27.0 | 27.0 |
| 85° | 46.9 | 9.4 | 7.0 | 8.2 | 9.4 | 11.7 | 15.3 | 18.8 | 21.1 | 23.5 | 23.5 |
| 87.5° | 12.9 | 3.5 | 4.7 | 5.9 | 5.9 | 8.2 | 11.7 | 14.1 | 16.4 | 17.6 | 17.6 |
| 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)