

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: P631313

Luminaire Tested: GWS-SA1F-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-740-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7643.1 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

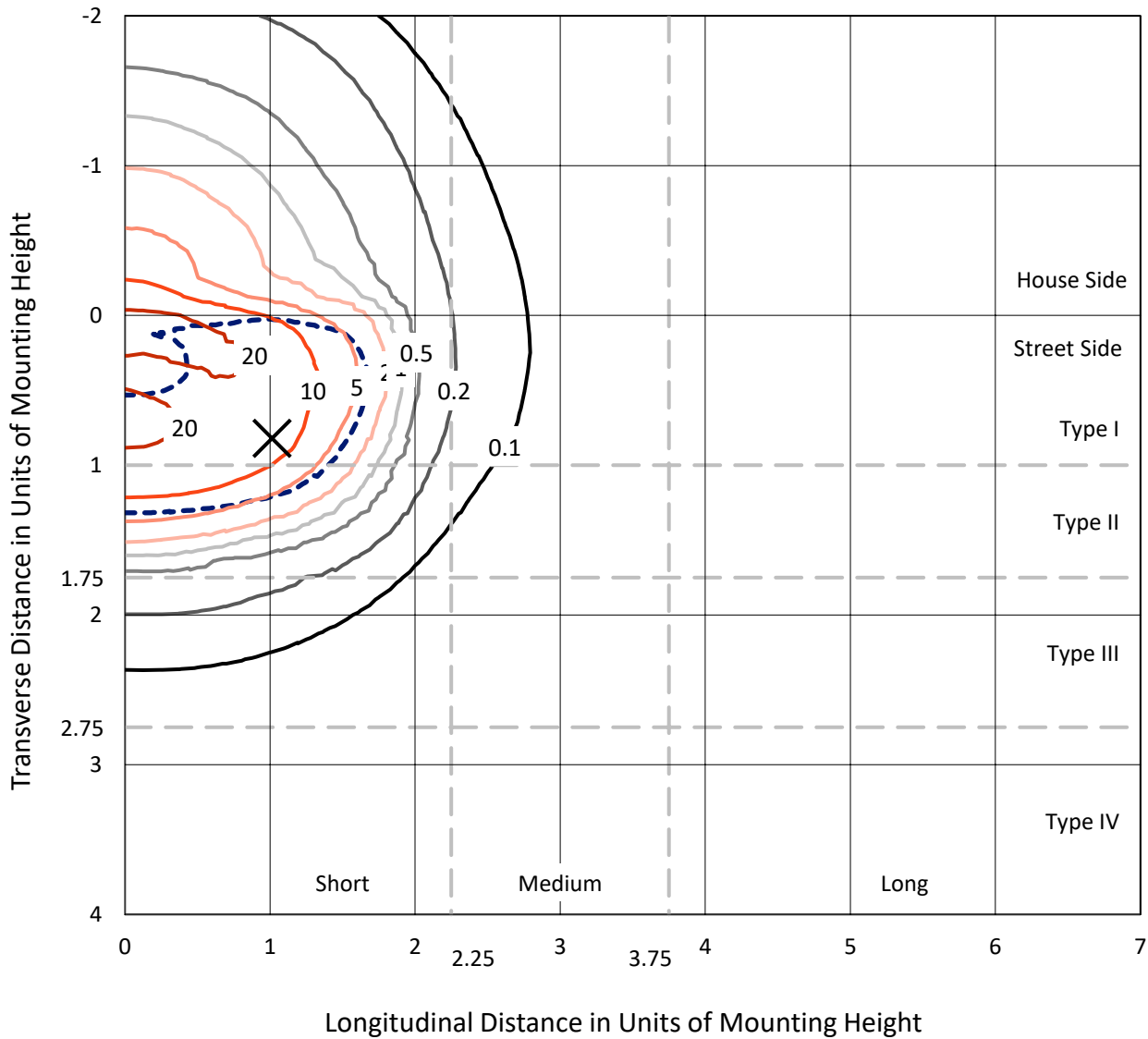
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

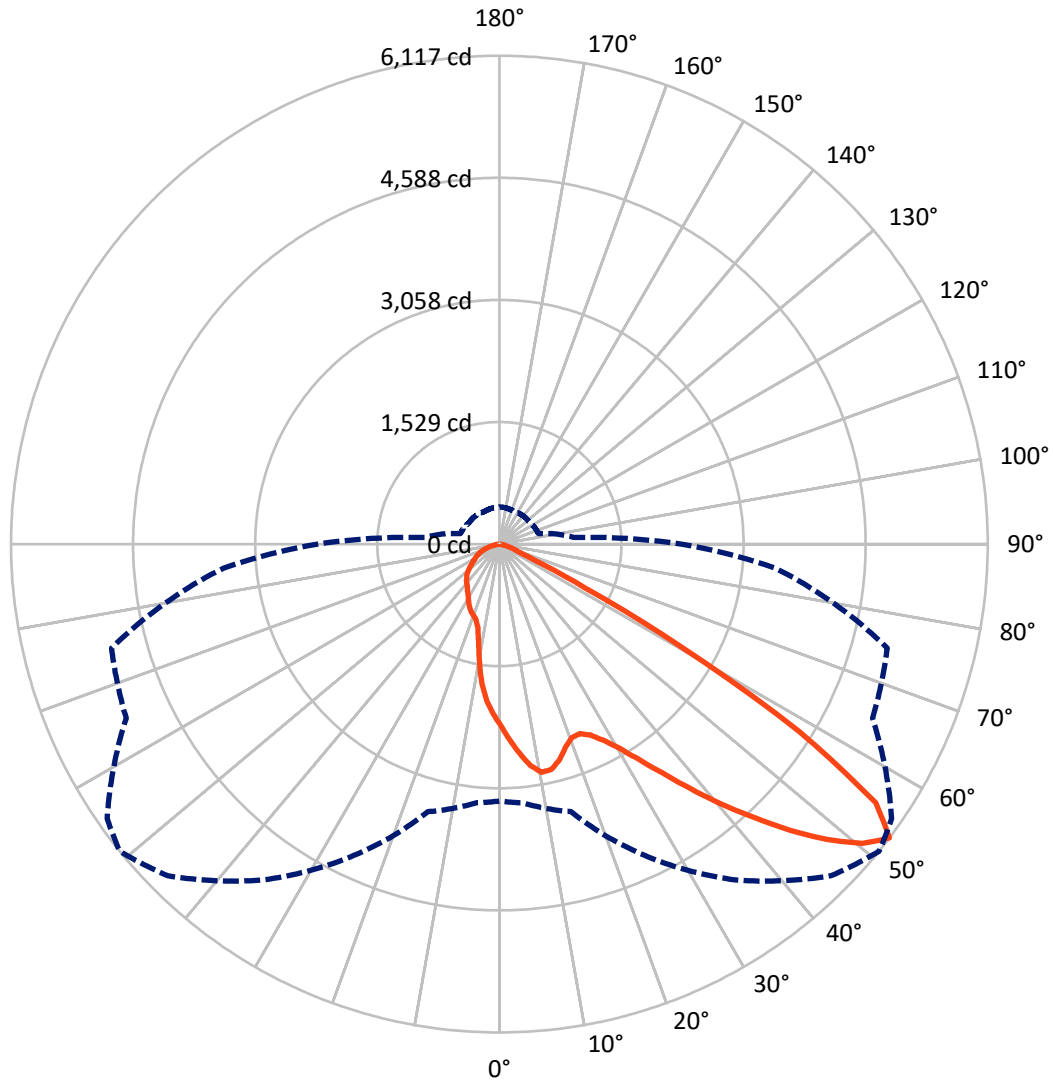
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1489.2 | 0.0 | 1489.2 |
| | % Fixture | 19.5 | 0.0 | 19.5 |
| Street Side | Lumens | 6153.9 | 0.0 | 6153.9 |
| | % Fixture | 80.5 | 0.0 | 80.5 |
| Total | Lumens | 7643.1 | 0.0 | 7643.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 212.4 | 2.8 |
| 10°-20° | 551.8 | 7.2 |
| 20°-30° | 897.2 | 11.7 |
| 30°-40° | 1421.8 | 18.6 |
| 40°-50° | 2144.4 | 28.1 |
| 50°-60° | 1855.1 | 24.3 |
| 60°-70° | 420.6 | 5.5 |
| 70°-80° | 124.0 | 1.6 |
| 80°-90° | 16.0 | 0.2 |
| 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° | 7643.1 | 100.0 |
| 0°-180° | 7643.1 | 100.0 |

Coefficient of Utilization



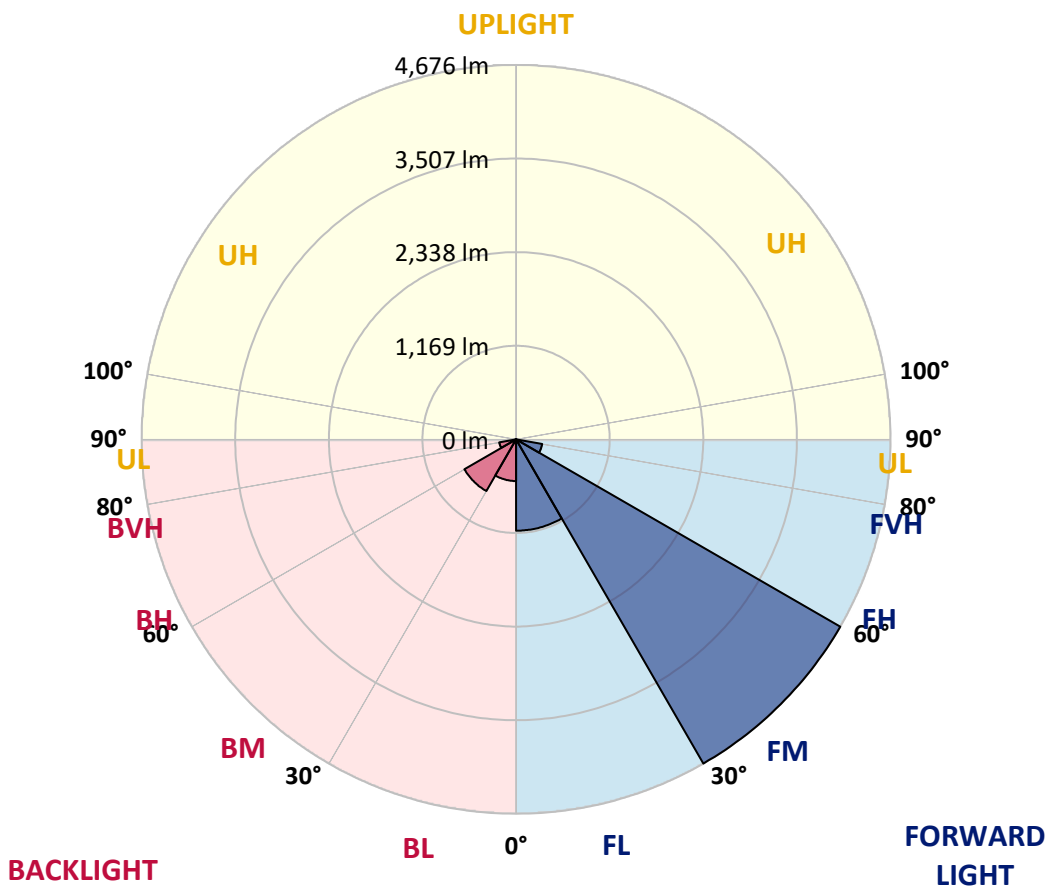
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1140.7 | 14.9 | | | |
| FM (30°-60°) | 4676.2 | 61.2 | | | |
| FH (60°-80°) | 331.0 | 4.3 | | | G0/660 |
| FVH (80°-90°) | 6.0 | 0.1 | | | G0/10 |
| BL (0°-30°) | 520.6 | 6.8 | B2/1000 | | |
| BM (30°-60°) | 745.1 | 9.7 | B1/1000 | | |
| BH (60°-80°) | 213.6 | 2.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 9.9 | 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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 51° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2275.7 | 2275.7 | 2275.7 | 2275.7 | 2275.7 | 2275.7 | 2275.7 | 2275.7 | 2275.7 | 2275.7 | 2275.7 |
| 2.5° | 2536.0 | 2550.5 | 2528.2 | 2519.7 | 2505.8 | 2481.7 | 2453.9 | 2446.0 | 2386.3 | 2347.0 | 2302.9 |
| 5° | 2790.9 | 2798.8 | 2780.6 | 2762.5 | 2728.1 | 2685.2 | 2631.5 | 2620.0 | 2511.3 | 2421.3 | 2327.7 |
| 7.5° | 2847.7 | 2844.7 | 2860.4 | 2870.6 | 2866.4 | 2849.5 | 2801.8 | 2779.4 | 2649.6 | 2507.0 | 2368.7 |
| 10° | 2623.0 | 2606.1 | 2664.1 | 2732.9 | 2815.7 | 2911.1 | 2905.7 | 2903.9 | 2790.9 | 2622.4 | 2421.3 |
| 12.5° | 2325.3 | 2316.8 | 2363.9 | 2450.3 | 2606.7 | 2818.1 | 2897.2 | 2958.8 | 2918.3 | 2732.3 | 2479.9 |
| 15° | 2154.9 | 2151.9 | 2183.9 | 2246.1 | 2370.6 | 2637.5 | 2806.6 | 2928.6 | 3027.7 | 2850.1 | 2542.1 |
| 17.5° | 2124.1 | 2125.9 | 2136.8 | 2172.5 | 2261.8 | 2481.7 | 2677.4 | 2847.7 | 3112.8 | 2979.3 | 2620.0 |
| 20° | 2214.1 | 2226.2 | 2207.5 | 2212.9 | 2261.2 | 2425.5 | 2589.2 | 2766.2 | 3167.2 | 3109.2 | 2703.9 |
| 22.5° | 2414.0 | 2409.8 | 2368.7 | 2344.6 | 2345.2 | 2459.9 | 2579.5 | 2728.1 | 3202.8 | 3235.4 | 2780.0 |
| 25° | 2640.5 | 2635.7 | 2586.8 | 2533.0 | 2499.2 | 2553.6 | 2649.0 | 2768.6 | 3234.8 | 3350.8 | 2841.0 |
| 27.5° | 2908.1 | 2893.0 | 2838.6 | 2769.8 | 2694.9 | 2718.4 | 2783.1 | 2877.9 | 3284.4 | 3464.3 | 2881.5 |
| 30° | 3167.2 | 3184.7 | 3106.8 | 3025.3 | 2946.1 | 2931.6 | 2969.1 | 3054.8 | 3385.2 | 3597.2 | 2929.8 |
| 32.5° | 3510.8 | 3504.8 | 3418.4 | 3312.1 | 3199.2 | 3188.3 | 3217.9 | 3296.4 | 3566.4 | 3780.8 | 3003.5 |
| 35° | 3927.0 | 3928.2 | 3805.6 | 3661.8 | 3501.2 | 3472.2 | 3521.7 | 3597.8 | 3836.4 | 4029.6 | 3120.1 |
| 37.5° | 4359.4 | 4357.6 | 4250.7 | 4087.6 | 3868.4 | 3827.3 | 3884.1 | 3940.9 | 4174.0 | 4368.5 | 3301.3 |
| 40° | 4662.6 | 4674.7 | 4624.5 | 4538.8 | 4331.0 | 4230.8 | 4280.9 | 4320.1 | 4541.2 | 4767.1 | 3539.8 |
| 42.5° | 4834.7 | 4852.8 | 4863.7 | 4915.1 | 4805.7 | 4698.8 | 4680.7 | 4701.2 | 4869.1 | 5137.3 | 3763.9 |
| 45° | 4871.6 | 4895.7 | 4974.8 | 5165.1 | 5207.4 | 5177.2 | 5118.0 | 5068.5 | 5113.8 | 5400.0 | 3910.7 |
| 47.5° | 4709.1 | 4751.4 | 4920.5 | 5253.3 | 5500.3 | 5595.1 | 5529.3 | 5453.8 | 5255.1 | 5467.7 | 3895.6 |
| 50° | 4065.3 | 4114.8 | 4495.9 | 5073.3 | 5542.0 | 5887.4 | 5893.5 | 5781.7 | 5238.2 | 5272.6 | 3705.9 |
| 52.5° | 3218.5 | 3252.3 | 3470.4 | 4300.8 | 5133.1 | 5875.4 | 6116.9 | 5997.4 | 5156.6 | 5028.6 | 3468.6 |
| 55° | 1923.6 | 1978.0 | 2181.5 | 2837.4 | 3998.8 | 5207.4 | 5721.9 | 5779.9 | 5116.8 | 4823.9 | 3306.7 |
| 57.5° | 649.3 | 675.8 | 870.3 | 1253.2 | 2356.7 | 3812.8 | 4421.0 | 4656.6 | 4645.1 | 4511.0 | 2990.8 |
| 60° | 309.2 | 315.3 | 354.5 | 475.3 | 943.4 | 1992.5 | 2617.0 | 2888.8 | 3136.4 | 3161.1 | 1860.8 |
| 62.5° | 235.5 | 239.2 | 259.1 | 285.1 | 379.3 | 839.5 | 1199.5 | 1407.2 | 1503.3 | 1290.1 | 677.6 |
| 65° | 196.9 | 199.9 | 215.0 | 231.3 | 257.9 | 363.6 | 460.2 | 530.9 | 478.3 | 372.6 | 323.1 |
| 67.5° | 164.3 | 166.7 | 178.2 | 195.7 | 213.8 | 243.4 | 255.5 | 262.7 | 275.4 | 309.2 | 297.1 |
| 70° | 128.6 | 131.1 | 143.1 | 158.2 | 175.8 | 183.0 | 194.5 | 201.7 | 227.1 | 270.6 | 269.4 |
| 72.5° | 99.0 | 102.1 | 108.7 | 118.4 | 132.9 | 140.1 | 152.8 | 161.3 | 175.8 | 210.8 | 225.3 |
| 75° | 72.5 | 74.3 | 80.3 | 83.3 | 85.2 | 83.3 | 96.0 | 105.7 | 125.0 | 138.3 | 141.9 |
| 77.5° | 29.6 | 33.2 | 32.0 | 32.0 | 38.0 | 45.9 | 52.5 | 58.6 | 71.9 | 79.7 | 80.3 |
| 80° | 12.1 | 13.3 | 15.7 | 17.5 | 21.1 | 27.2 | 31.4 | 33.8 | 39.9 | 44.7 | 48.3 |
| 82.5° | 7.2 | 7.9 | 9.1 | 9.7 | 12.1 | 15.7 | 18.1 | 19.9 | 24.8 | 29.6 | 31.4 |
| 85° | 3.6 | 3.6 | 4.2 | 4.8 | 6.0 | 7.2 | 8.5 | 9.7 | 12.7 | 15.7 | 17.5 |
| 87.5° | 0.6 | 0.6 | 0.6 | 1.2 | 1.8 | 2.4 | 3.0 | 3.6 | 4.2 | 4.8 | 6.0 |
| 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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CATALOG NUMBER: GWS-SA1F-740-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2275.7 | 2275.7 | 2275.7 | 2275.7 | 2275.7 | 2275.7 | 2275.7 | 2275.7 | 2275.7 | 2275.7 | 2275.7 |
| 2.5° | 2276.9 | 2244.3 | 2206.3 | 2176.1 | 2141.0 | 2115.1 | 2078.2 | 2055.3 | 2033.5 | 2015.4 | 2002.1 |
| 5° | 2279.4 | 2224.4 | 2145.3 | 2075.2 | 2002.7 | 1933.9 | 1863.2 | 1805.8 | 1754.5 | 1711.6 | 1708.0 |
| 7.5° | 2293.2 | 2214.1 | 2090.3 | 1967.7 | 1826.4 | 1689.9 | 1553.4 | 1442.3 | 1357.7 | 1313.6 | 1304.6 |
| 10° | 2316.8 | 2212.9 | 2034.1 | 1838.5 | 1597.5 | 1377.6 | 1215.8 | 1131.2 | 1082.3 | 1064.8 | 1058.7 |
| 12.5° | 2341.6 | 2209.9 | 1962.3 | 1656.1 | 1321.5 | 1128.8 | 1040.0 | 1029.8 | 1038.8 | 1040.0 | 1039.4 |
| 15° | 2371.8 | 2208.1 | 1871.7 | 1442.3 | 1119.7 | 1013.4 | 1019.5 | 1041.2 | 1062.4 | 1067.2 | 1067.2 |
| 17.5° | 2408.6 | 2203.9 | 1748.5 | 1233.3 | 993.5 | 991.1 | 1023.1 | 1052.1 | 1072.0 | 1075.7 | 1075.7 |
| 20° | 2447.3 | 2193.0 | 1596.9 | 1063.0 | 942.2 | 977.2 | 1011.6 | 1034.0 | 1047.9 | 1052.7 | 1053.3 |
| 22.5° | 2473.8 | 2164.0 | 1422.3 | 936.7 | 910.2 | 950.6 | 975.4 | 998.4 | 998.4 | 986.3 | 982.6 |
| 25° | 2479.3 | 2101.8 | 1233.3 | 850.4 | 872.1 | 909.6 | 934.9 | 921.6 | 896.9 | 887.2 | 886.6 |
| 27.5° | 2459.3 | 2011.2 | 1046.7 | 788.8 | 826.2 | 863.7 | 859.4 | 840.1 | 829.2 | 819.6 | 823.2 |
| 30° | 2435.2 | 1902.5 | 884.8 | 738.0 | 773.1 | 809.9 | 795.4 | 788.8 | 780.9 | 770.1 | 772.5 |
| 32.5° | 2418.9 | 1781.1 | 760.4 | 698.8 | 737.4 | 743.5 | 753.7 | 753.1 | 745.9 | 725.4 | 724.2 |
| 35° | 2423.7 | 1658.5 | 677.0 | 666.8 | 707.8 | 705.4 | 724.8 | 721.1 | 671.0 | 642.6 | 640.8 |
| 37.5° | 2462.4 | 1540.7 | 628.1 | 641.4 | 660.7 | 675.8 | 692.7 | 649.3 | 631.7 | 613.6 | 614.8 |
| 40° | 2536.0 | 1431.4 | 601.5 | 627.5 | 632.3 | 654.7 | 615.4 | 614.8 | 607.0 | 590.7 | 590.1 |
| 42.5° | 2619.4 | 1339.0 | 583.4 | 620.9 | 614.2 | 618.5 | 576.8 | 581.6 | 581.0 | 570.7 | 567.7 |
| 45° | 2670.1 | 1253.8 | 568.9 | 596.1 | 597.9 | 555.6 | 543.0 | 548.4 | 551.4 | 546.0 | 545.4 |
| 47.5° | 2617.6 | 1156.0 | 553.8 | 558.1 | 573.8 | 527.3 | 511.6 | 512.2 | 517.6 | 518.2 | 515.8 |
| 50° | 2470.2 | 1046.7 | 535.7 | 525.4 | 515.2 | 497.7 | 483.2 | 480.2 | 485.6 | 491.0 | 492.8 |
| 52.5° | 2280.0 | 942.2 | 505.5 | 489.8 | 465.7 | 465.7 | 459.0 | 449.3 | 456.6 | 463.8 | 466.3 |
| 55° | 2140.4 | 864.9 | 462.6 | 445.1 | 418.5 | 427.6 | 426.4 | 417.9 | 427.6 | 433.0 | 434.9 |
| 57.5° | 1854.8 | 695.2 | 407.1 | 401.6 | 379.3 | 390.2 | 392.6 | 381.7 | 376.9 | 378.1 | 379.9 |
| 60° | 1101.0 | 448.7 | 367.2 | 366.6 | 346.7 | 359.4 | 366.6 | 355.7 | 341.2 | 343.1 | 345.5 |
| 62.5° | 494.0 | 343.1 | 317.1 | 314.7 | 314.1 | 330.4 | 338.2 | 328.0 | 307.4 | 309.2 | 311.6 |
| 65° | 311.0 | 296.5 | 275.4 | 275.4 | 285.1 | 299.0 | 305.0 | 296.5 | 273.0 | 270.0 | 272.4 |
| 67.5° | 288.7 | 276.0 | 254.3 | 250.0 | 254.9 | 266.3 | 267.0 | 250.6 | 236.8 | 234.3 | 234.3 |
| 70° | 259.1 | 249.4 | 228.3 | 219.8 | 218.0 | 217.4 | 215.6 | 211.4 | 202.3 | 199.9 | 201.1 |
| 72.5° | 214.4 | 207.8 | 194.5 | 185.4 | 180.6 | 180.0 | 172.7 | 169.1 | 161.3 | 160.1 | 159.4 |
| 75° | 141.9 | 143.7 | 143.7 | 142.5 | 138.3 | 136.5 | 128.6 | 125.0 | 116.0 | 112.3 | 111.7 |
| 77.5° | 84.0 | 85.8 | 88.2 | 88.8 | 88.2 | 88.2 | 80.9 | 76.7 | 67.6 | 62.8 | 61.6 |
| 80° | 51.3 | 52.5 | 53.8 | 55.6 | 53.1 | 51.3 | 44.7 | 40.5 | 36.2 | 33.2 | 32.6 |
| 82.5° | 33.2 | 34.4 | 35.0 | 36.2 | 35.0 | 32.6 | 27.2 | 24.8 | 21.7 | 19.3 | 18.7 |
| 85° | 18.7 | 19.3 | 20.5 | 20.5 | 18.7 | 16.9 | 13.9 | 12.1 | 10.3 | 9.1 | 9.1 |
| 87.5° | 6.6 | 6.6 | 6.6 | 7.2 | 6.0 | 5.4 | 3.6 | 2.4 | 1.8 | 1.8 | 1.8 |
| 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)