

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: P631863

Luminaire Tested: GWS-SA2B-750-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631863
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-SA2B-750-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6404.3 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

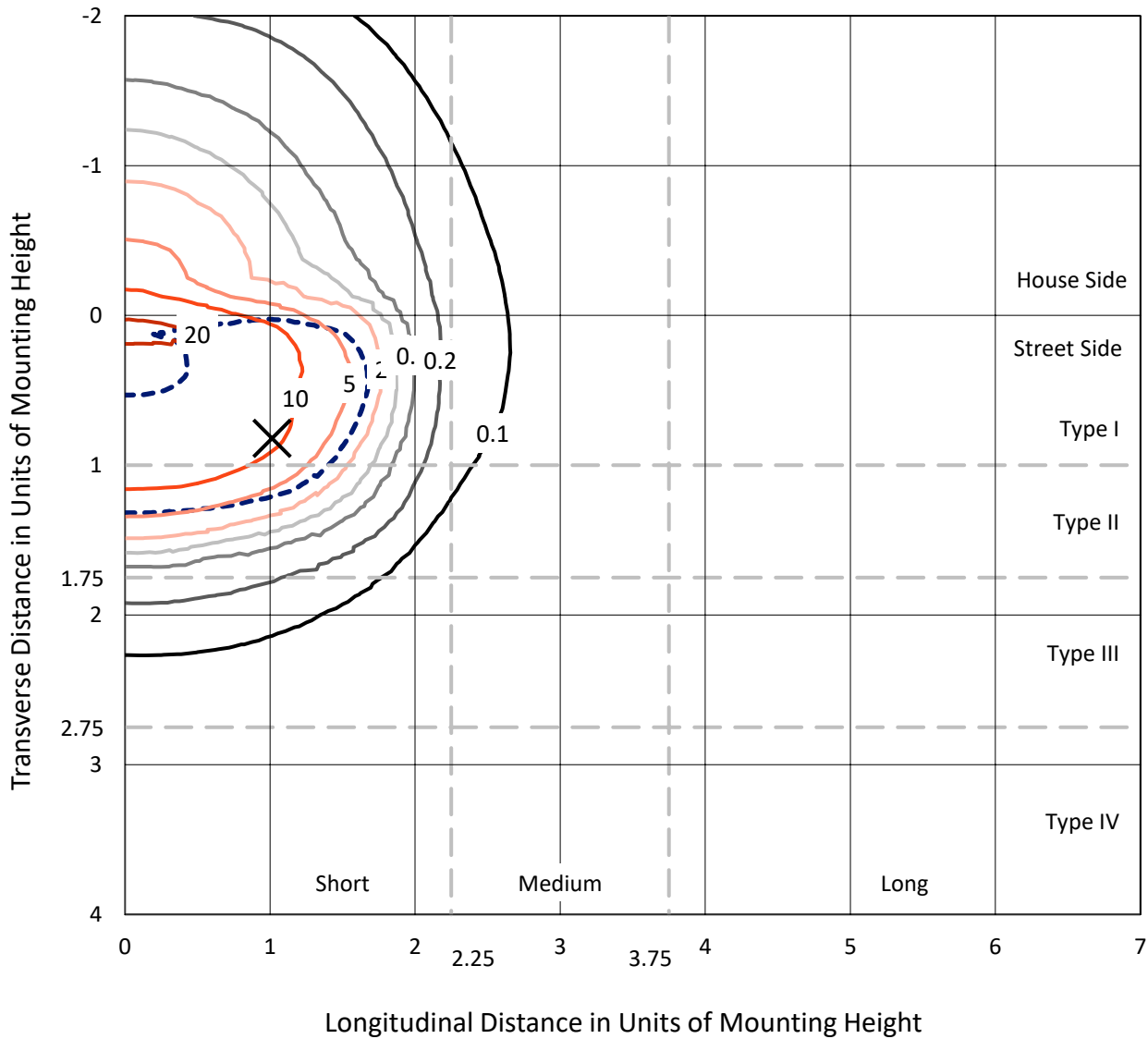
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

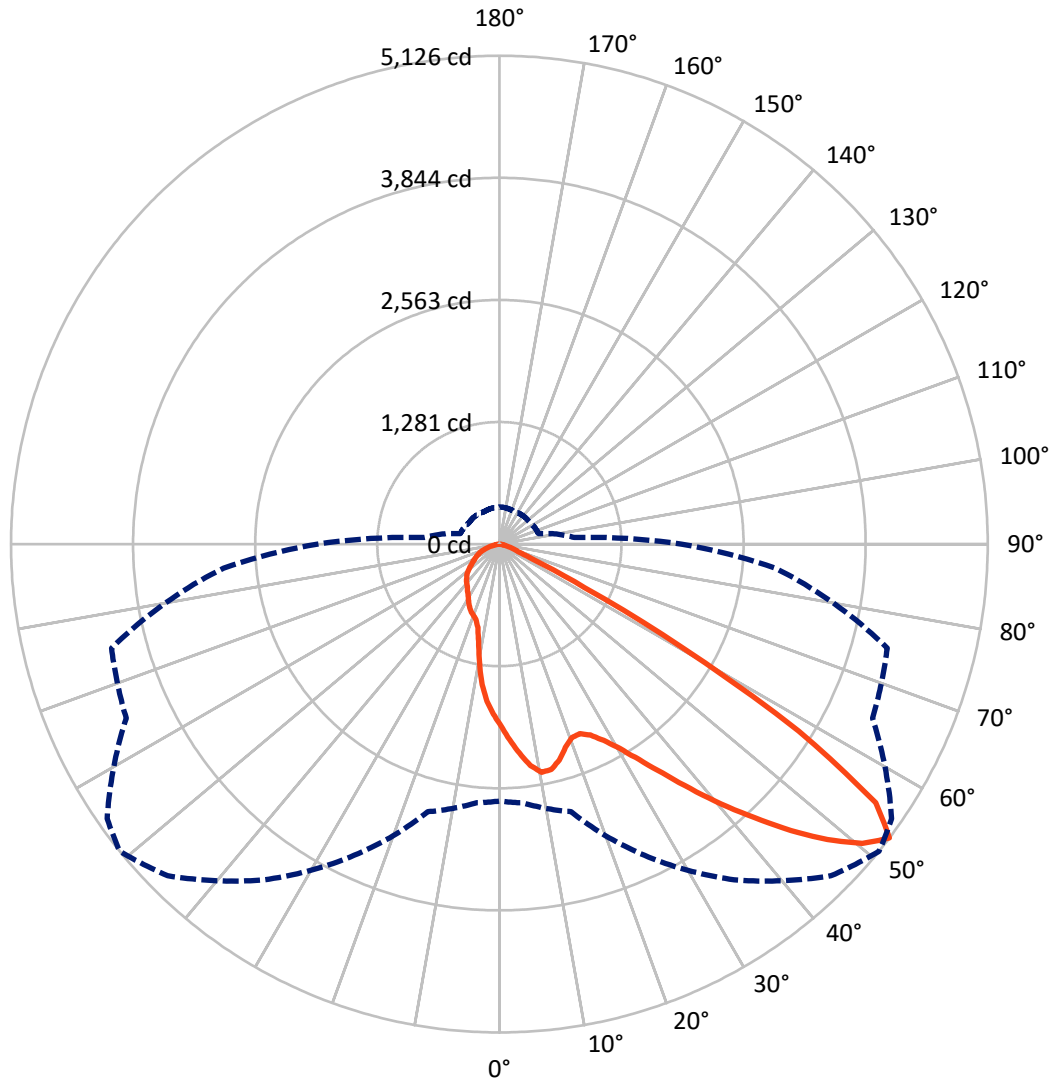
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.3 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 | 1247.8 | 0.0 | 1247.8 |
| | % Fixture | 19.5 | 0.0 | 19.5 |
| Street Side | Lumens | 5156.5 | 0.0 | 5156.5 |
| | % Fixture | 80.5 | 0.0 | 80.5 |
| Total | Lumens | 6404.3 | 0.0 | 6404.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 177.9 | 2.8 |
| 10°-20° | 462.4 | 7.2 |
| 20°-30° | 751.7 | 11.7 |
| 30°-40° | 1191.4 | 18.6 |
| 40°-50° | 1796.8 | 28.1 |
| 50°-60° | 1554.4 | 24.3 |
| 60°-70° | 352.4 | 5.5 |
| 70°-80° | 103.9 | 1.6 |
| 80°-90° | 13.4 | 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° | 6404.3 | 100.0 |
| 0°-180° | 6404.3 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P631863

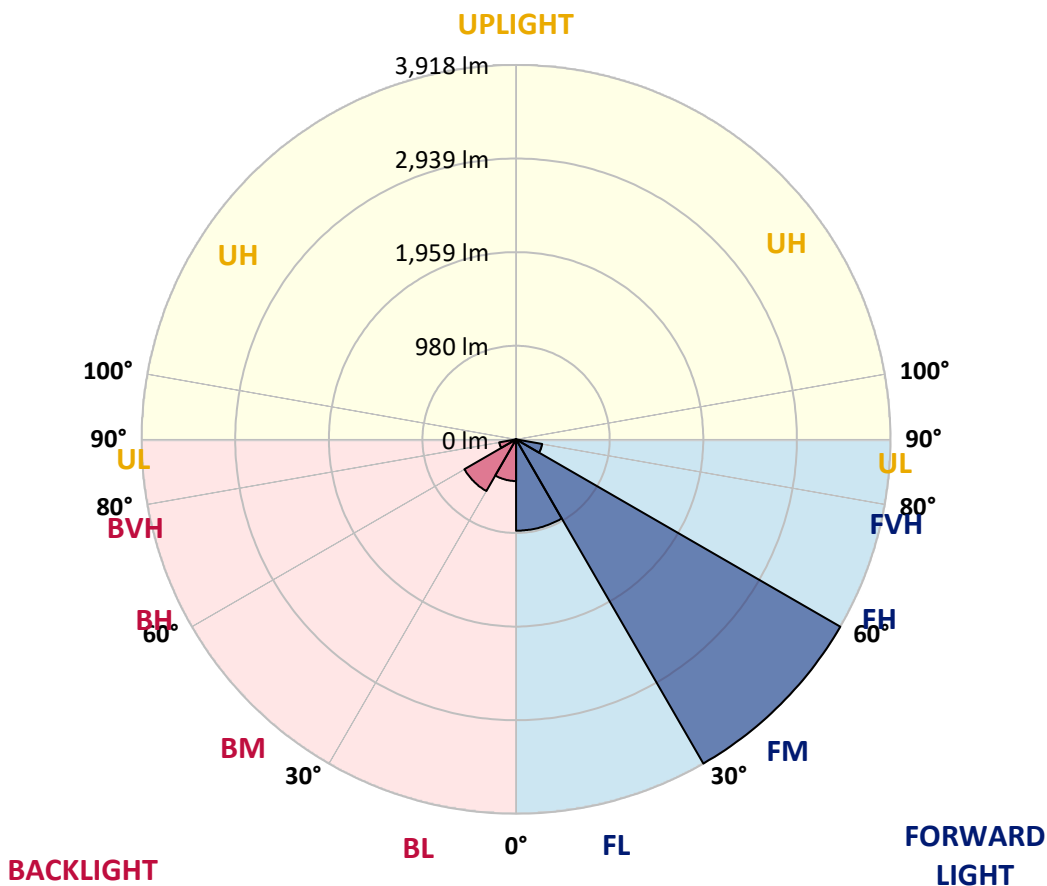
CATALOG NUMBER: GWS-SA2B-750-U-AFL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 955.9 | 14.9 | | | |
| FM (30°-60°) | 3918.2 | 61.2 | | | |
| FH (60°-80°) | 277.3 | 4.3 | | | G0/660 |
| FVH (80°-90°) | 5.0 | 0.1 | | | G0/10 |
| BL (0°-30°) | 436.2 | 6.8 | B1/500 | | |
| BM (30°-60°) | 624.3 | 9.7 | B1/1000 | | |
| BH (60°-80°) | 179.0 | 2.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 8.3 | 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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 51° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1906.9 | 1906.9 | 1906.9 | 1906.9 | 1906.9 | 1906.9 | 1906.9 | 1906.9 | 1906.9 | 1906.9 | 1906.9 |
| 2.5° | 2125.0 | 2137.1 | 2118.4 | 2111.3 | 2099.7 | 2079.5 | 2056.2 | 2049.6 | 1999.5 | 1966.6 | 1929.7 |
| 5° | 2338.6 | 2345.1 | 2330.0 | 2314.8 | 2285.9 | 2250.0 | 2205.0 | 2195.3 | 2104.2 | 2028.8 | 1950.4 |
| 7.5° | 2386.1 | 2383.6 | 2396.8 | 2405.4 | 2401.8 | 2387.6 | 2347.7 | 2328.9 | 2220.1 | 2100.7 | 1984.8 |
| 10° | 2197.9 | 2183.7 | 2232.3 | 2290.0 | 2359.3 | 2439.3 | 2434.7 | 2433.2 | 2338.6 | 2197.4 | 2028.8 |
| 12.5° | 1948.4 | 1941.3 | 1980.8 | 2053.1 | 2184.2 | 2361.3 | 2427.6 | 2479.2 | 2445.3 | 2289.5 | 2077.9 |
| 15° | 1805.7 | 1803.1 | 1830.0 | 1882.1 | 1986.3 | 2210.0 | 2351.7 | 2453.9 | 2536.9 | 2388.2 | 2130.1 |
| 17.5° | 1779.9 | 1781.4 | 1790.5 | 1820.3 | 1895.2 | 2079.5 | 2243.4 | 2386.1 | 2608.3 | 2496.5 | 2195.3 |
| 20° | 1855.3 | 1865.4 | 1849.7 | 1854.2 | 1894.7 | 2032.4 | 2169.5 | 2317.8 | 2653.8 | 2605.3 | 2265.7 |
| 22.5° | 2022.8 | 2019.2 | 1984.8 | 1964.6 | 1965.1 | 2061.2 | 2161.4 | 2285.9 | 2683.7 | 2711.0 | 2329.4 |
| 25° | 2212.5 | 2208.5 | 2167.5 | 2122.5 | 2094.1 | 2139.7 | 2219.6 | 2319.8 | 2710.5 | 2807.7 | 2380.6 |
| 27.5° | 2436.7 | 2424.1 | 2378.5 | 2320.8 | 2258.1 | 2277.8 | 2332.0 | 2411.4 | 2752.0 | 2902.8 | 2414.5 |
| 30° | 2653.8 | 2668.5 | 2603.2 | 2534.9 | 2468.6 | 2456.5 | 2487.9 | 2559.7 | 2836.5 | 3014.2 | 2455.0 |
| 32.5° | 2941.8 | 2936.7 | 2864.4 | 2775.3 | 2680.7 | 2671.6 | 2696.4 | 2762.1 | 2988.4 | 3168.0 | 2516.7 |
| 35° | 3290.5 | 3291.5 | 3188.8 | 3068.3 | 2933.7 | 2909.4 | 2950.9 | 3014.7 | 3214.6 | 3376.5 | 2614.4 |
| 37.5° | 3652.8 | 3651.3 | 3561.7 | 3425.1 | 3241.4 | 3207.0 | 3254.5 | 3302.1 | 3497.5 | 3660.4 | 2766.2 |
| 40° | 3906.9 | 3917.0 | 3875.0 | 3803.1 | 3629.0 | 3545.0 | 3587.0 | 3619.9 | 3805.2 | 3994.4 | 2966.1 |
| 42.5° | 4051.1 | 4066.3 | 4075.4 | 4118.4 | 4026.8 | 3937.2 | 3922.1 | 3939.3 | 4080.0 | 4304.6 | 3153.8 |
| 45° | 4082.0 | 4102.2 | 4168.5 | 4327.9 | 4363.4 | 4338.0 | 4288.5 | 4247.0 | 4284.9 | 4524.8 | 3276.8 |
| 47.5° | 3945.8 | 3981.3 | 4123.0 | 4401.8 | 4608.8 | 4688.3 | 4633.1 | 4569.8 | 4403.3 | 4581.5 | 3264.2 |
| 50° | 3406.4 | 3447.9 | 3767.2 | 4251.0 | 4643.7 | 4933.2 | 4938.3 | 4844.6 | 4389.2 | 4418.0 | 3105.3 |
| 52.5° | 2696.9 | 2725.2 | 2907.9 | 3603.7 | 4301.1 | 4923.1 | 5125.5 | 5025.3 | 4320.8 | 4213.6 | 2906.4 |
| 55° | 1611.8 | 1657.4 | 1827.9 | 2377.5 | 3350.7 | 4363.4 | 4794.5 | 4843.1 | 4287.4 | 4042.0 | 2770.7 |
| 57.5° | 544.0 | 566.3 | 729.2 | 1050.1 | 1974.7 | 3194.8 | 3704.4 | 3901.8 | 3892.2 | 3779.9 | 2506.1 |
| 60° | 259.1 | 264.2 | 297.1 | 398.3 | 790.5 | 1669.5 | 2192.8 | 2420.5 | 2628.0 | 2648.8 | 1559.2 |
| 62.5° | 197.4 | 200.4 | 217.1 | 238.9 | 317.8 | 703.4 | 1005.1 | 1179.1 | 1259.6 | 1081.0 | 567.8 |
| 65° | 165.0 | 167.5 | 180.2 | 193.8 | 216.1 | 304.7 | 385.6 | 444.8 | 400.8 | 312.2 | 270.7 |
| 67.5° | 137.7 | 139.7 | 149.3 | 164.0 | 179.1 | 203.9 | 214.1 | 220.1 | 230.8 | 259.1 | 249.0 |
| 70° | 107.8 | 109.8 | 119.9 | 132.6 | 147.3 | 153.3 | 163.0 | 169.0 | 190.3 | 226.7 | 225.7 |
| 72.5° | 83.0 | 85.5 | 91.1 | 99.2 | 111.3 | 117.4 | 128.0 | 135.1 | 147.3 | 176.6 | 188.8 |
| 75° | 60.7 | 62.2 | 67.3 | 69.8 | 71.4 | 69.8 | 80.5 | 88.6 | 104.8 | 115.9 | 118.9 |
| 77.5° | 24.8 | 27.8 | 26.8 | 26.8 | 31.9 | 38.5 | 44.0 | 49.1 | 60.2 | 66.8 | 67.3 |
| 80° | 10.1 | 11.1 | 13.2 | 14.7 | 17.7 | 22.8 | 26.3 | 28.3 | 33.4 | 37.4 | 40.5 |
| 82.5° | 6.1 | 6.6 | 7.6 | 8.1 | 10.1 | 13.2 | 15.2 | 16.7 | 20.7 | 24.8 | 26.3 |
| 85° | 3.0 | 3.0 | 3.5 | 4.0 | 5.1 | 6.1 | 7.1 | 8.1 | 10.6 | 13.2 | 14.7 |
| 87.5° | 0.5 | 0.5 | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 5.1 |
| 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-SA2B-750-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1906.9 | 1906.9 | 1906.9 | 1906.9 | 1906.9 | 1906.9 | 1906.9 | 1906.9 | 1906.9 | 1906.9 | 1906.9 |
| 2.5° | 1907.9 | 1880.6 | 1848.7 | 1823.4 | 1794.0 | 1772.3 | 1741.4 | 1722.2 | 1703.9 | 1688.8 | 1677.6 |
| 5° | 1909.9 | 1863.9 | 1797.6 | 1738.9 | 1678.1 | 1620.4 | 1561.2 | 1513.2 | 1470.1 | 1434.2 | 1431.2 |
| 7.5° | 1921.6 | 1855.3 | 1751.5 | 1648.8 | 1530.4 | 1416.0 | 1301.6 | 1208.5 | 1137.7 | 1100.7 | 1093.1 |
| 10° | 1941.3 | 1854.2 | 1704.5 | 1540.5 | 1338.6 | 1154.4 | 1018.7 | 947.9 | 906.9 | 892.2 | 887.1 |
| 12.5° | 1962.0 | 1851.7 | 1644.2 | 1387.6 | 1107.3 | 945.8 | 871.5 | 862.9 | 870.4 | 871.5 | 871.0 |
| 15° | 1987.3 | 1850.2 | 1568.3 | 1208.5 | 938.3 | 849.2 | 854.2 | 872.5 | 890.2 | 894.2 | 894.2 |
| 17.5° | 2018.2 | 1846.7 | 1465.1 | 1033.4 | 832.5 | 830.5 | 857.3 | 881.6 | 898.3 | 901.3 | 901.3 |
| 20° | 2050.6 | 1837.5 | 1338.1 | 890.7 | 789.5 | 818.8 | 847.7 | 866.4 | 878.0 | 882.1 | 882.6 |
| 22.5° | 2072.9 | 1813.3 | 1191.8 | 784.9 | 762.7 | 796.6 | 817.3 | 836.5 | 836.5 | 826.4 | 823.4 |
| 25° | 2077.4 | 1761.1 | 1033.4 | 712.5 | 730.8 | 762.1 | 783.4 | 772.3 | 751.5 | 743.4 | 742.9 |
| 27.5° | 2060.7 | 1685.2 | 877.0 | 660.9 | 692.3 | 723.7 | 720.1 | 703.9 | 694.8 | 686.7 | 689.8 |
| 30° | 2040.5 | 1594.1 | 741.4 | 618.4 | 647.8 | 678.6 | 666.5 | 660.9 | 654.4 | 645.2 | 647.3 |
| 32.5° | 2026.8 | 1492.4 | 637.1 | 585.5 | 617.9 | 623.0 | 631.6 | 631.1 | 625.0 | 607.8 | 606.8 |
| 35° | 2030.9 | 1389.7 | 567.3 | 558.7 | 593.1 | 591.1 | 607.3 | 604.3 | 562.2 | 538.5 | 536.9 |
| 37.5° | 2063.3 | 1291.0 | 526.3 | 537.4 | 553.6 | 566.3 | 580.5 | 544.0 | 529.4 | 514.2 | 515.2 |
| 40° | 2125.0 | 1199.4 | 504.0 | 525.8 | 529.9 | 548.6 | 515.7 | 515.2 | 508.6 | 494.9 | 494.4 |
| 42.5° | 2194.8 | 1122.0 | 488.9 | 520.2 | 514.7 | 518.2 | 483.3 | 487.3 | 486.8 | 478.2 | 475.7 |
| 45° | 2237.3 | 1050.6 | 476.7 | 499.5 | 501.0 | 465.6 | 455.0 | 459.5 | 462.0 | 457.5 | 457.0 |
| 47.5° | 2193.3 | 968.6 | 464.1 | 467.6 | 480.8 | 441.8 | 428.6 | 429.1 | 433.7 | 434.2 | 432.2 |
| 50° | 2069.8 | 877.0 | 448.9 | 440.3 | 431.7 | 417.0 | 404.9 | 402.3 | 406.9 | 411.4 | 413.0 |
| 52.5° | 1910.4 | 789.5 | 423.6 | 410.4 | 390.2 | 390.2 | 384.6 | 376.5 | 382.6 | 388.7 | 390.7 |
| 55° | 1793.5 | 724.7 | 387.7 | 373.0 | 350.7 | 358.3 | 357.3 | 350.2 | 358.3 | 362.9 | 364.4 |
| 57.5° | 1554.1 | 582.5 | 341.1 | 336.5 | 317.8 | 326.9 | 328.9 | 319.8 | 315.8 | 316.8 | 318.3 |
| 60° | 922.6 | 376.0 | 307.7 | 307.2 | 290.5 | 301.1 | 307.2 | 298.1 | 285.9 | 287.4 | 289.5 |
| 62.5° | 414.0 | 287.4 | 265.7 | 263.7 | 263.2 | 276.8 | 283.4 | 274.8 | 257.6 | 259.1 | 261.1 |
| 65° | 260.6 | 248.5 | 230.8 | 230.8 | 238.9 | 250.5 | 255.6 | 248.5 | 228.7 | 226.2 | 228.2 |
| 67.5° | 241.9 | 231.3 | 213.1 | 209.5 | 213.6 | 223.2 | 223.7 | 210.0 | 198.4 | 196.4 | 196.4 |
| 70° | 217.1 | 209.0 | 191.3 | 184.2 | 182.7 | 182.2 | 180.7 | 177.1 | 169.5 | 167.5 | 168.5 |
| 72.5° | 179.7 | 174.1 | 163.0 | 155.4 | 151.3 | 150.8 | 144.7 | 141.7 | 135.1 | 134.1 | 133.6 |
| 75° | 118.9 | 120.4 | 120.4 | 119.4 | 115.9 | 114.4 | 107.8 | 104.8 | 97.2 | 94.1 | 93.6 |
| 77.5° | 70.3 | 71.9 | 73.9 | 74.4 | 73.9 | 73.9 | 67.8 | 64.3 | 56.7 | 52.6 | 51.6 |
| 80° | 43.0 | 44.0 | 45.0 | 46.6 | 44.5 | 43.0 | 37.4 | 33.9 | 30.4 | 27.8 | 27.3 |
| 82.5° | 27.8 | 28.8 | 29.4 | 30.4 | 29.4 | 27.3 | 22.8 | 20.7 | 18.2 | 16.2 | 15.7 |
| 85° | 15.7 | 16.2 | 17.2 | 17.2 | 15.7 | 14.2 | 11.6 | 10.1 | 8.6 | 7.6 | 7.6 |
| 87.5° | 5.6 | 5.6 | 5.6 | 6.1 | 5.1 | 4.6 | 3.0 | 2.0 | 1.5 | 1.5 | 1.5 |
| 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)