

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: P636551

Luminaire Tested: GWS-SA4B-722-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-722-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10446.6 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

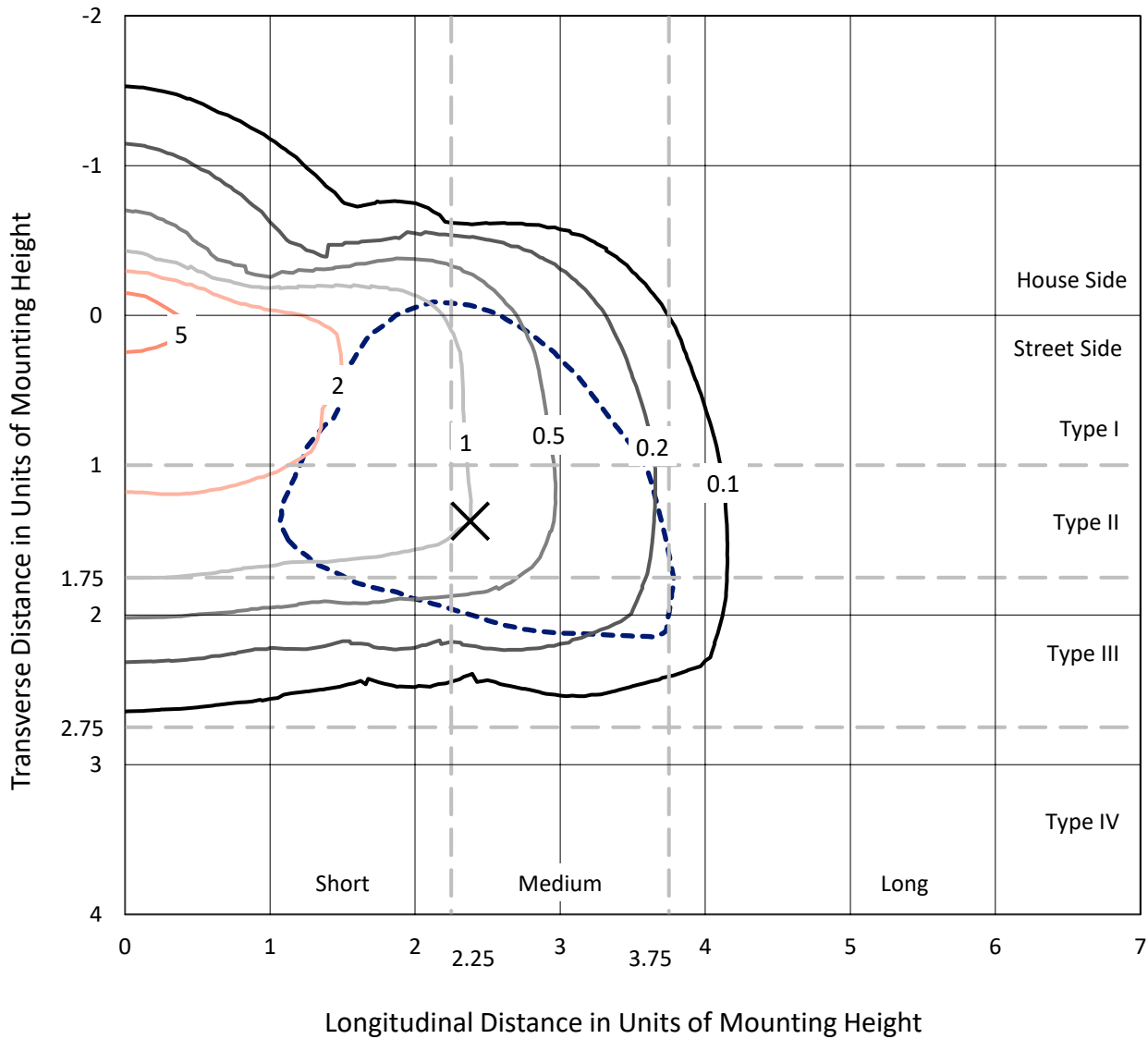
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636551
 CATALOG NUMBER: GWS-SA4B-722-U-SL3-W

Iso-Footcandle Lines of Horizontal Illumination

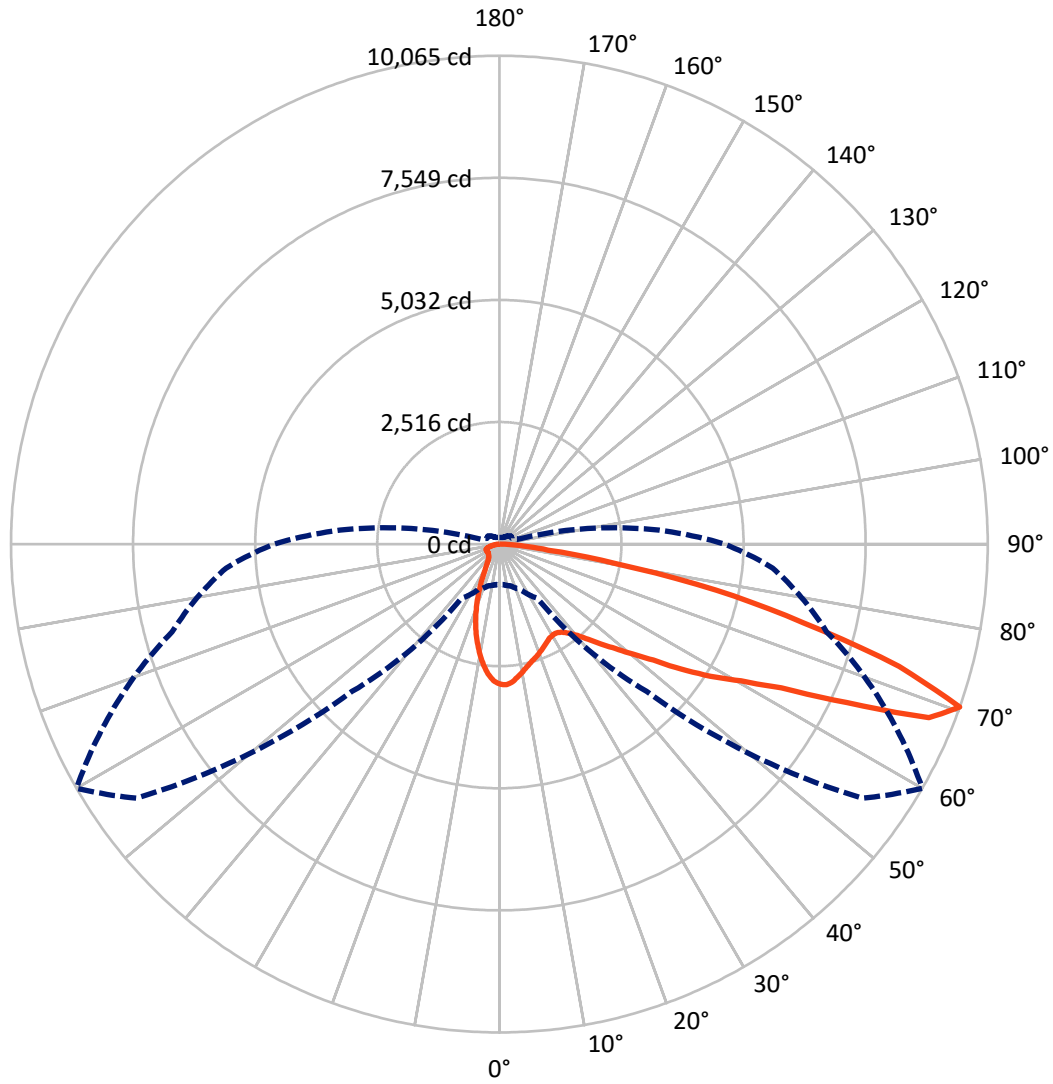
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P636551
CATALOG NUMBER: GWS-SA4B-722-U-SL3-W

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P636551

CATALOG NUMBER: GWS-SA4B-722-U-SL3-W

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1786.6 | 0.0 | 1786.6 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 8660.0 | 0.0 | 8660.0 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 10446.6 | 0.0 | 10446.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 249.2 | 2.4 |
| 10°-20° | 558.2 | 5.3 |
| 20°-30° | 714.9 | 6.8 |
| 30°-40° | 939.5 | 9.0 |
| 40°-50° | 1363.1 | 13.0 |
| 50°-60° | 2126.8 | 20.4 |
| 60°-70° | 2784.4 | 26.7 |
| 70°-80° | 1539.7 | 14.7 |
| 80°-90° | 170.9 | 1.6 |
| 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° | 10446.6 | 100.0 |
| 0°-180° | 10446.6 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P636551

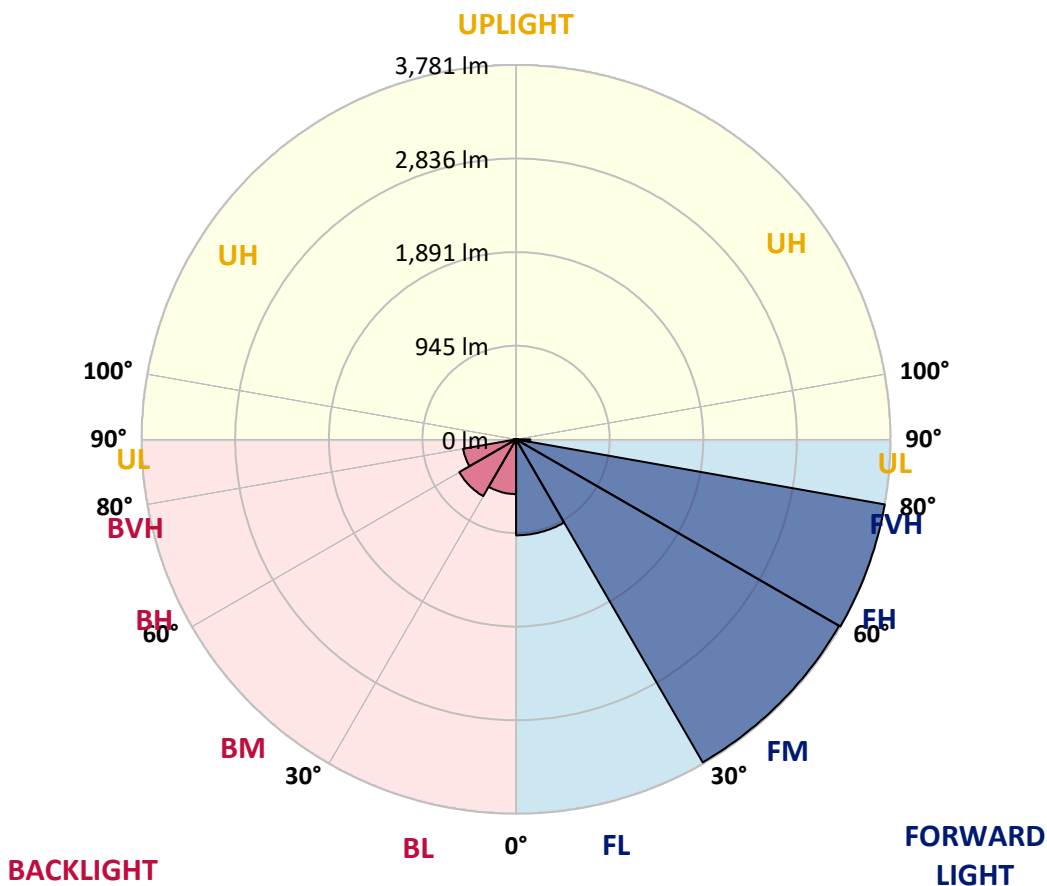
CATALOG NUMBER: GWS-SA4B-722-U-SL3-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 969.5 | 9.3 | | | |
| FM (30°-60°) | 3767.0 | 36.1 | | | |
| FH (60°-80°) | 3781.1 | 36.2 | | | G2/5000 |
| FVH (80°-90°) | 142.4 | 1.4 | | | G2/225 |
| BL (0°-30°) | 552.8 | 5.3 | B2/1000 | | |
| BM (30°-60°) | 662.4 | 6.3 | B1/1000 | | |
| BH (60°-80°) | 542.9 | 5.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 28.5 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Medium





REPORT NUMBER: P636551
 CATALOG NUMBER: GWS-SA4B-722-U-SL3-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|
| 0° | 2890.7 | 2890.7 | 2890.7 | 2890.7 | 2890.7 | 2890.7 | 2890.7 | 2890.7 | 2890.7 | 2890.7 | 2890.7 |
| 2.5° | 2850.2 | 2853.3 | 2861.7 | 2873.9 | 2886.1 | 2892.2 | 2907.5 | 2902.9 | 2899.9 | 2893.8 | 2886.1 |
| 5° | 2724.1 | 2730.2 | 2737.8 | 2761.5 | 2788.3 | 2809.7 | 2844.1 | 2847.9 | 2849.4 | 2852.5 | 2840.3 |
| 7.5° | 2563.6 | 2565.1 | 2583.4 | 2614.8 | 2649.9 | 2686.6 | 2744.0 | 2760.0 | 2773.8 | 2789.1 | 2779.1 |
| 10° | 2386.2 | 2390.1 | 2403.8 | 2448.9 | 2509.3 | 2563.6 | 2640.8 | 2667.5 | 2696.6 | 2730.2 | 2716.4 |
| 12.5° | 2241.0 | 2241.8 | 2264.0 | 2312.1 | 2377.8 | 2451.2 | 2547.5 | 2579.6 | 2617.8 | 2670.6 | 2658.4 |
| 15° | 2125.6 | 2125.6 | 2146.2 | 2187.5 | 2263.2 | 2349.6 | 2464.2 | 2505.5 | 2557.5 | 2628.5 | 2607.1 |
| 17.5° | 2033.9 | 2034.7 | 2047.6 | 2091.2 | 2158.5 | 2254.0 | 2390.1 | 2445.9 | 2503.2 | 2597.2 | 2565.1 |
| 20° | 1985.7 | 1981.9 | 1984.2 | 2011.0 | 2068.3 | 2160.8 | 2315.9 | 2380.9 | 2458.1 | 2575.8 | 2526.9 |
| 22.5° | 1983.4 | 1976.6 | 1966.6 | 1968.9 | 2002.6 | 2079.0 | 2236.4 | 2315.2 | 2412.2 | 2558.2 | 2487.9 |
| 25° | 2022.4 | 2014.8 | 1997.2 | 1977.3 | 1974.3 | 2020.1 | 2161.5 | 2251.0 | 2364.8 | 2550.6 | 2450.5 |
| 27.5° | 2088.2 | 2082.8 | 2059.9 | 2030.1 | 1998.7 | 1997.2 | 2105.0 | 2198.2 | 2330.5 | 2558.2 | 2423.7 |
| 30° | 2175.3 | 2166.1 | 2151.6 | 2113.4 | 2066.0 | 2017.1 | 2082.8 | 2169.9 | 2307.5 | 2582.7 | 2412.2 |
| 32.5° | 2273.9 | 2268.5 | 2254.8 | 2216.6 | 2166.1 | 2088.2 | 2100.4 | 2176.1 | 2307.5 | 2625.5 | 2414.5 |
| 35° | 2378.6 | 2377.8 | 2377.8 | 2352.6 | 2296.8 | 2199.8 | 2169.9 | 2228.0 | 2342.7 | 2694.3 | 2439.0 |
| 37.5° | 2480.3 | 2479.5 | 2504.0 | 2513.1 | 2449.7 | 2345.0 | 2288.4 | 2332.0 | 2419.9 | 2795.9 | 2499.4 |
| 40° | 2562.8 | 2565.9 | 2619.4 | 2665.2 | 2630.1 | 2533.0 | 2453.5 | 2475.7 | 2545.2 | 2940.4 | 2604.8 |
| 42.5° | 2646.1 | 2654.5 | 2734.8 | 2815.8 | 2829.6 | 2745.5 | 2665.2 | 2678.2 | 2724.8 | 3131.5 | 2762.3 |
| 45° | 2737.1 | 2740.9 | 2853.3 | 2966.4 | 3032.9 | 2983.2 | 2917.5 | 2935.0 | 2945.7 | 3367.7 | 2997.0 |
| 47.5° | 2825.0 | 2834.9 | 2980.1 | 3135.3 | 3261.4 | 3256.8 | 3220.1 | 3214.8 | 3217.1 | 3655.0 | 3274.4 |
| 50° | 2945.0 | 2959.5 | 3129.9 | 3317.2 | 3502.2 | 3587.0 | 3597.7 | 3557.2 | 3540.4 | 3974.5 | 3619.9 |
| 52.5° | 3172.7 | 3172.7 | 3325.6 | 3509.8 | 3758.2 | 3968.4 | 4040.3 | 3973.8 | 3920.3 | 4312.4 | 3986.8 |
| 55° | 3457.8 | 3470.1 | 3591.6 | 3740.6 | 4055.6 | 4369.7 | 4612.8 | 4539.4 | 4388.0 | 4680.0 | 4371.2 |
| 57.5° | 3584.7 | 3600.0 | 3792.6 | 4024.2 | 4444.6 | 4826.0 | 5163.1 | 5137.1 | 4916.2 | 5062.2 | 4770.2 |
| 60° | 3355.4 | 3387.5 | 3652.7 | 4041.0 | 4797.0 | 5562.1 | 5799.8 | 5724.1 | 5408.4 | 5463.5 | 5202.8 |
| 62.5° | 2799.0 | 2834.1 | 3128.4 | 3670.3 | 4748.0 | 6357.7 | 6803.3 | 6524.4 | 6022.9 | 5970.2 | 5779.1 |
| 65° | 1670.1 | 1668.5 | 2022.4 | 2740.9 | 4145.0 | 6578.6 | 8391.6 | 7871.1 | 6972.3 | 6665.8 | 6372.2 |
| 67.5° | 1061.7 | 1059.4 | 1133.5 | 1452.2 | 2758.5 | 6037.5 | 9412.8 | 9548.1 | 8261.7 | 7177.1 | 6421.2 |
| 70° | 837.7 | 836.9 | 890.4 | 1035.7 | 1364.3 | 4296.3 | 9128.4 | 10064.7 | 9040.5 | 6982.2 | 5653.8 |
| 72.5° | 610.7 | 612.2 | 694.8 | 867.5 | 1052.5 | 2156.9 | 7391.9 | 8611.7 | 8315.2 | 6163.6 | 4589.8 |
| 75° | 438.7 | 441.0 | 490.7 | 664.2 | 970.7 | 1179.4 | 4915.4 | 6475.4 | 6326.4 | 4940.7 | 3157.5 |
| 77.5° | 279.0 | 282.0 | 325.6 | 465.5 | 784.2 | 952.4 | 2980.1 | 4571.5 | 4209.2 | 2783.7 | 1122.8 |
| 80° | 170.4 | 180.4 | 217.1 | 347.0 | 626.8 | 714.7 | 1489.7 | 2408.4 | 2108.0 | 763.6 | 377.6 |
| 82.5° | 87.9 | 95.5 | 130.7 | 214.8 | 431.8 | 627.5 | 843.1 | 1012.0 | 652.7 | 319.5 | 201.0 |
| 85° | 27.5 | 32.1 | 45.9 | 87.1 | 205.6 | 389.0 | 558.0 | 502.9 | 299.6 | 150.6 | 93.2 |
| 87.5° | 6.9 | 6.9 | 7.6 | 7.6 | 8.4 | 17.6 | 107.8 | 113.9 | 79.5 | 47.4 | 38.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P636551
 CATALOG NUMBER: GWS-SA4B-722-U-SL3-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2890.7 | 2890.7 | 2890.7 | 2890.7 | 2890.7 | 2890.7 | 2890.7 | 2890.7 | 2890.7 | 2890.7 | 2890.7 |
| 2.5° | 2870.8 | 2852.5 | 2844.8 | 2844.1 | 2825.0 | 2797.5 | 2779.1 | 2766.1 | 2758.5 | 2757.0 | 2757.0 |
| 5° | 2819.6 | 2795.9 | 2764.6 | 2740.9 | 2689.7 | 2637.7 | 2594.1 | 2569.7 | 2541.4 | 2537.6 | 2536.8 |
| 7.5° | 2751.6 | 2717.2 | 2657.6 | 2591.1 | 2501.7 | 2415.3 | 2341.9 | 2292.2 | 2242.6 | 2233.4 | 2230.3 |
| 10° | 2678.2 | 2631.6 | 2529.9 | 2413.0 | 2279.2 | 2150.1 | 2037.7 | 1949.8 | 1891.7 | 1850.5 | 1842.8 |
| 12.5° | 2605.6 | 2543.7 | 2394.7 | 2220.4 | 2036.9 | 1860.4 | 1691.5 | 1547.8 | 1443.8 | 1383.4 | 1372.7 |
| 15° | 2537.6 | 2451.2 | 2247.1 | 2024.7 | 1786.2 | 1544.7 | 1305.5 | 1119.0 | 973.0 | 921.0 | 908.8 |
| 17.5° | 2475.7 | 2367.9 | 2104.2 | 1822.2 | 1524.8 | 1209.2 | 937.1 | 771.2 | 685.6 | 659.6 | 653.5 |
| 20° | 2413.8 | 2282.3 | 1959.0 | 1608.9 | 1247.4 | 893.5 | 684.8 | 606.9 | 574.8 | 564.8 | 561.8 |
| 22.5° | 2347.3 | 2188.3 | 1800.8 | 1398.7 | 966.9 | 668.8 | 560.3 | 525.9 | 515.9 | 516.7 | 515.9 |
| 25° | 2280.8 | 2092.7 | 1634.9 | 1170.2 | 720.0 | 542.7 | 489.2 | 476.2 | 478.5 | 485.4 | 486.9 |
| 27.5° | 2225.7 | 2007.9 | 1472.1 | 919.5 | 562.5 | 467.0 | 441.8 | 441.0 | 449.4 | 458.6 | 460.1 |
| 30° | 2186.0 | 1932.2 | 1311.6 | 707.0 | 463.2 | 415.0 | 405.1 | 409.7 | 419.6 | 426.5 | 428.8 |
| 32.5° | 2157.7 | 1867.3 | 1140.4 | 555.7 | 405.9 | 378.3 | 373.8 | 378.3 | 384.5 | 391.3 | 392.9 |
| 35° | 2147.8 | 1819.9 | 972.2 | 453.2 | 366.9 | 351.6 | 348.5 | 350.8 | 353.9 | 357.7 | 359.2 |
| 37.5° | 2169.9 | 1796.2 | 796.4 | 394.4 | 343.2 | 334.0 | 329.4 | 327.9 | 328.7 | 330.2 | 331.0 |
| 40° | 2235.7 | 1806.9 | 652.7 | 360.0 | 327.9 | 319.5 | 311.8 | 308.8 | 308.0 | 309.6 | 308.8 |
| 42.5° | 2348.8 | 1852.0 | 548.8 | 340.1 | 315.7 | 303.4 | 295.0 | 292.0 | 292.0 | 295.8 | 295.8 |
| 45° | 2514.7 | 1940.6 | 473.9 | 325.6 | 305.0 | 289.7 | 280.5 | 279.0 | 282.0 | 288.2 | 288.9 |
| 47.5° | 2757.7 | 2070.6 | 428.8 | 314.9 | 295.0 | 277.5 | 268.3 | 267.5 | 273.6 | 283.6 | 284.3 |
| 50° | 3045.9 | 2257.8 | 404.3 | 307.3 | 288.2 | 267.5 | 258.3 | 259.1 | 266.0 | 276.7 | 279.0 |
| 52.5° | 3392.9 | 2513.1 | 405.9 | 304.2 | 284.3 | 261.4 | 252.2 | 250.7 | 257.6 | 268.3 | 270.6 |
| 55° | 3751.3 | 2823.4 | 435.7 | 305.0 | 279.0 | 258.3 | 246.1 | 240.8 | 246.9 | 254.5 | 255.3 |
| 57.5° | 4145.7 | 3173.5 | 509.8 | 303.4 | 272.1 | 255.3 | 240.8 | 228.5 | 232.4 | 236.9 | 239.2 |
| 60° | 4590.6 | 3585.5 | 669.6 | 306.5 | 269.0 | 248.4 | 230.1 | 214.0 | 213.2 | 216.3 | 217.1 |
| 62.5° | 5185.2 | 4145.7 | 849.2 | 311.8 | 275.9 | 240.0 | 214.0 | 197.2 | 194.1 | 195.7 | 196.4 |
| 65° | 5640.0 | 4413.3 | 792.6 | 307.3 | 290.4 | 233.9 | 198.7 | 181.1 | 175.0 | 173.5 | 173.5 |
| 67.5° | 5455.0 | 4059.4 | 551.8 | 295.0 | 297.3 | 234.7 | 186.5 | 164.3 | 156.7 | 152.9 | 152.1 |
| 70° | 4641.8 | 3297.3 | 383.7 | 282.8 | 289.7 | 233.1 | 173.5 | 150.6 | 140.6 | 135.3 | 134.5 |
| 72.5° | 3667.3 | 2517.7 | 310.3 | 258.3 | 262.9 | 210.2 | 154.4 | 135.3 | 126.9 | 120.0 | 120.0 |
| 75° | 2360.3 | 1536.3 | 259.1 | 230.1 | 214.8 | 163.6 | 133.8 | 120.8 | 112.4 | 105.5 | 105.5 |
| 77.5° | 794.1 | 570.2 | 201.0 | 194.9 | 160.5 | 123.1 | 112.4 | 103.9 | 97.1 | 91.0 | 90.2 |
| 80° | 322.5 | 270.6 | 147.5 | 147.5 | 112.4 | 94.0 | 87.9 | 84.1 | 79.5 | 71.8 | 71.8 |
| 82.5° | 187.3 | 164.3 | 103.2 | 89.4 | 74.9 | 65.0 | 61.1 | 57.3 | 57.3 | 52.0 | 52.0 |
| 85° | 90.2 | 91.0 | 61.9 | 55.0 | 42.8 | 37.5 | 35.9 | 33.6 | 32.9 | 29.8 | 29.0 |
| 87.5° | 48.9 | 49.7 | 31.3 | 24.5 | 16.8 | 14.5 | 12.2 | 11.5 | 10.7 | 9.9 | 9.9 |
| 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)