

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: P636737

Luminaire Tested: GWS-SA4B-735-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-735-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12184.6 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

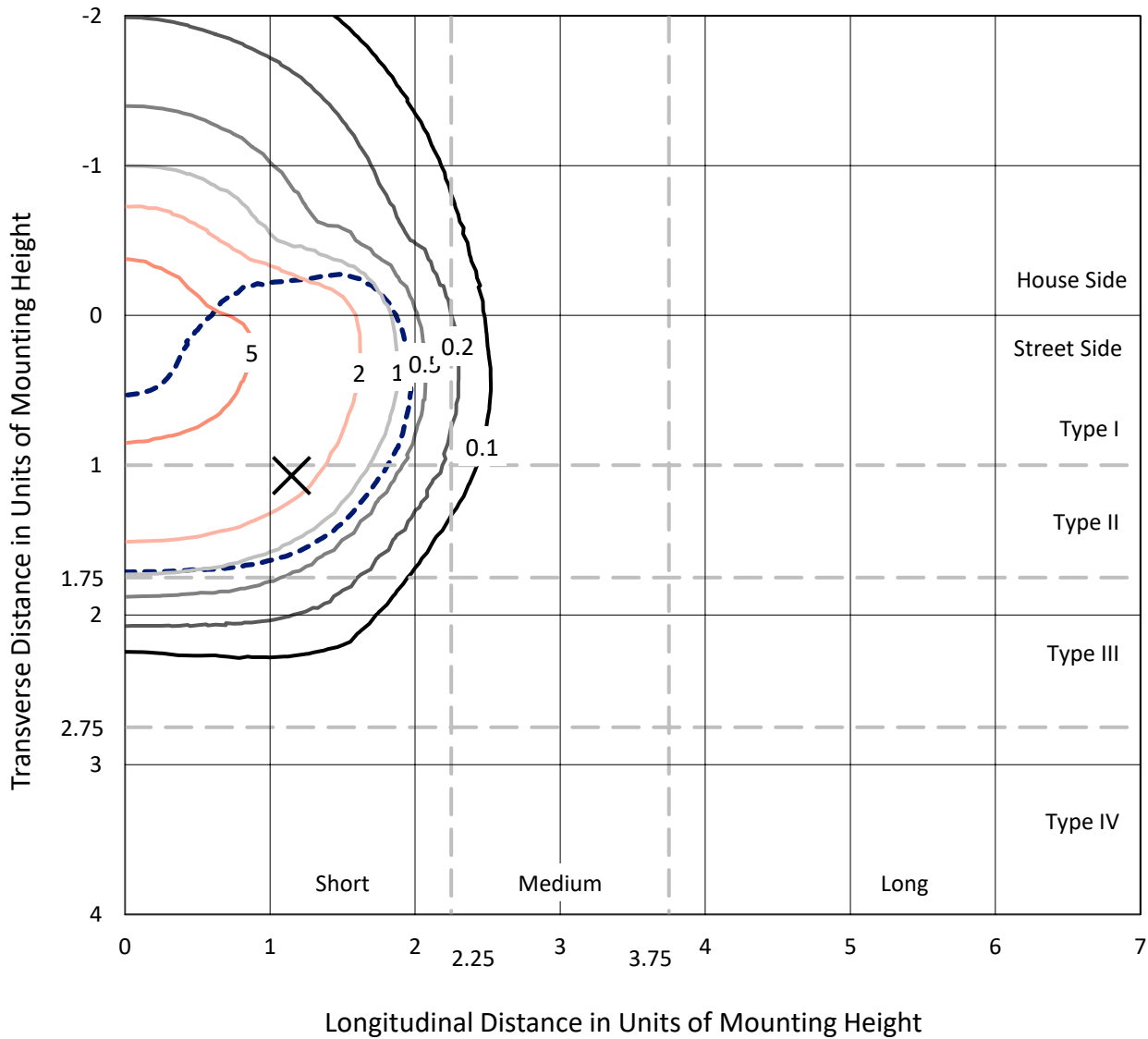
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

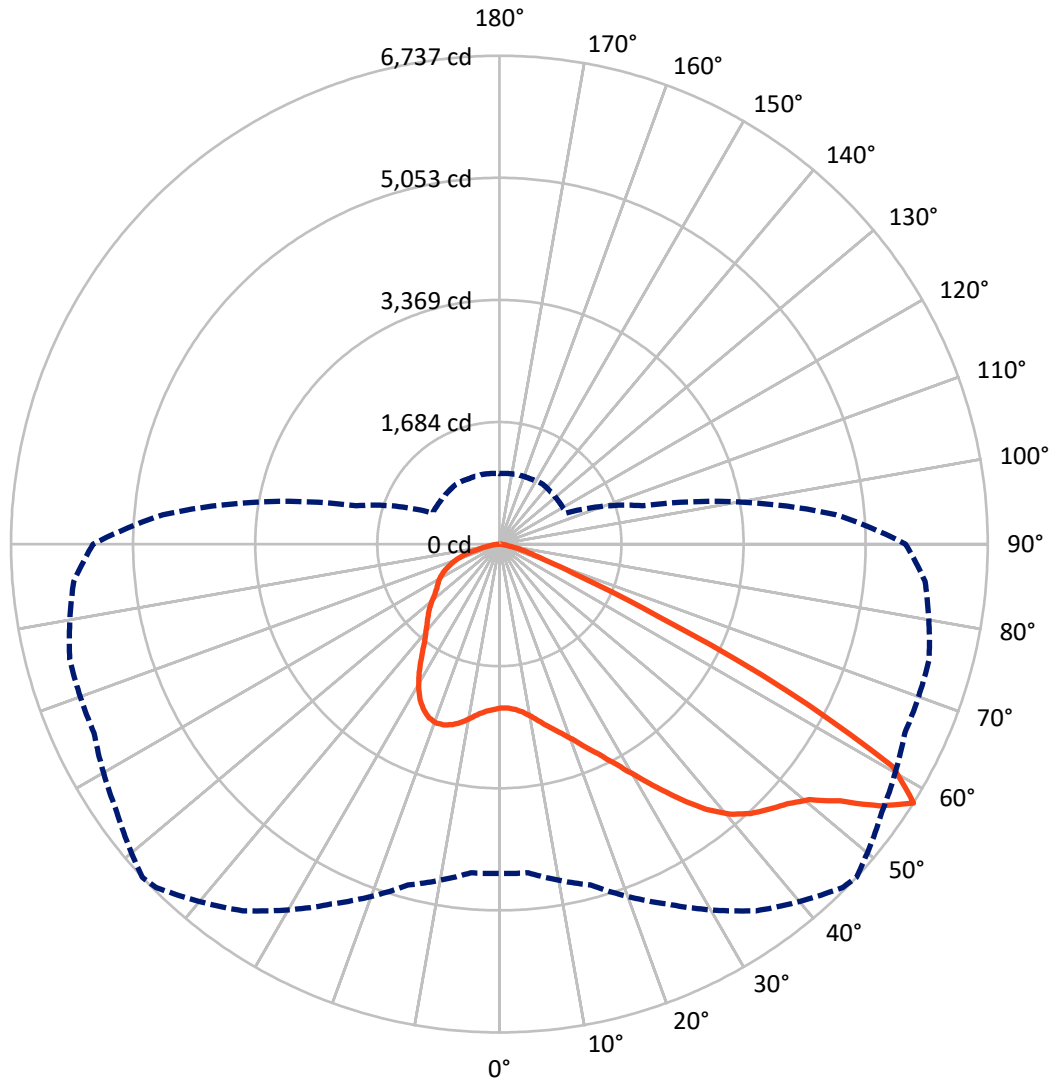
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3856.4 | 0.0 | 3856.4 |
| | % Fixture | 31.6 | 0.0 | 31.6 |
| Street Side | Lumens | 8328.2 | 0.0 | 8328.2 |
| | % Fixture | 68.4 | 0.0 | 68.4 |
| Total | Lumens | 12184.6 | 0.0 | 12184.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 222.9 | 1.8 |
| 10°-20° | 733.0 | 6.0 |
| 20°-30° | 1319.9 | 10.8 |
| 30°-40° | 1993.6 | 16.4 |
| 40°-50° | 2684.6 | 22.0 |
| 50°-60° | 3225.9 | 26.5 |
| 60°-70° | 1571.1 | 12.9 |
| 70°-80° | 387.1 | 3.2 |
| 80°-90° | 46.5 | 0.4 |
| 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° | 12184.6 | 100.0 |
| 0°-180° | 12184.6 | 100.0 |

Coefficient of Utilization



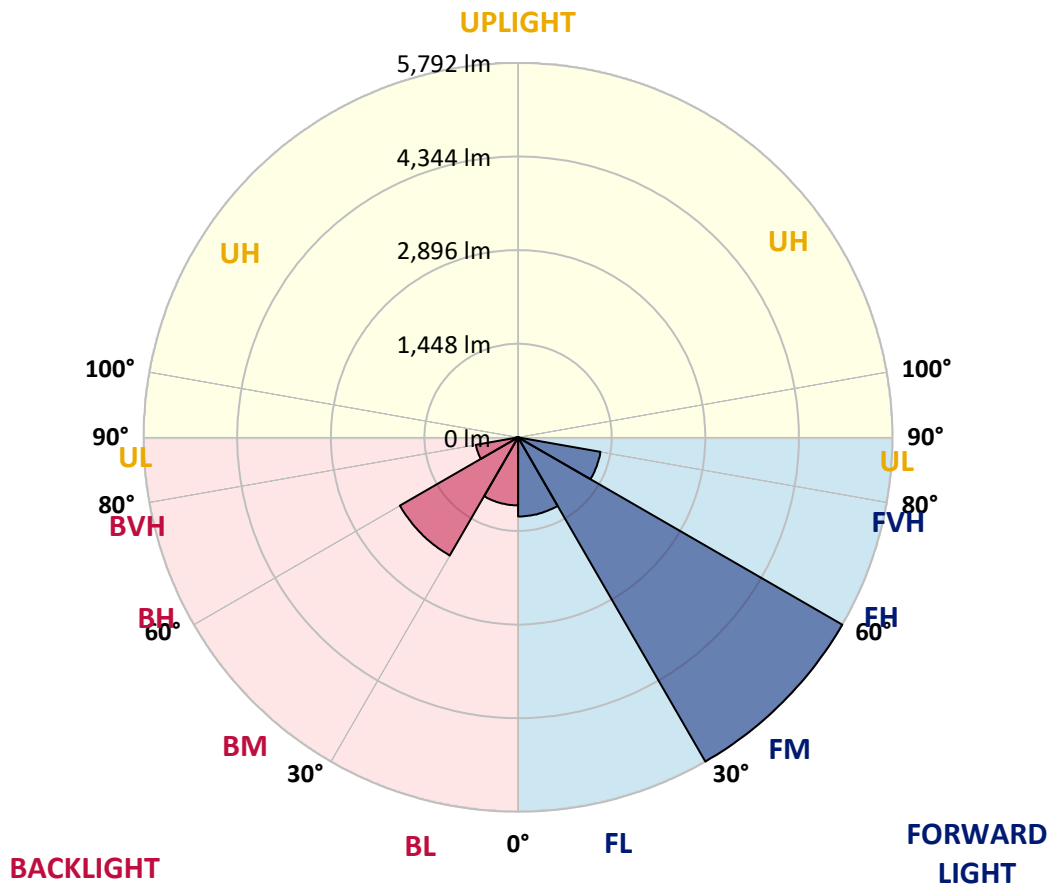
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1223.9 | 10.0 | | | |
| FM (30°-60°) | 5792.0 | 47.5 | | | |
| FH (60°-80°) | 1294.9 | 10.6 | | | G1/1800 |
| FVH (80°-90°) | 17.5 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1052.0 | 8.6 | B3/2500 | | |
| BM (30°-60°) | 2112.1 | 17.3 | B2/2500 | | |
| BH (60°-80°) | 663.3 | 5.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 29.0 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2259.7 | 2259.7 | 2259.7 | 2259.7 | 2259.7 | 2259.7 | 2259.7 | 2259.7 | 2259.7 | 2259.7 | 2259.7 |
| 2.5° | 2255.6 | 2254.5 | 2254.5 | 2260.7 | 2260.7 | 2262.7 | 2265.8 | 2268.9 | 2269.9 | 2264.8 | 2253.5 |
| 5° | 2280.1 | 2280.1 | 2280.1 | 2285.2 | 2285.2 | 2287.3 | 2291.4 | 2292.4 | 2291.4 | 2283.2 | 2271.9 |
| 7.5° | 2319.0 | 2319.0 | 2320.0 | 2326.2 | 2331.3 | 2334.4 | 2341.5 | 2340.5 | 2337.4 | 2324.1 | 2309.8 |
| 10° | 2382.5 | 2385.5 | 2388.6 | 2395.8 | 2406.0 | 2413.2 | 2418.3 | 2418.3 | 2414.2 | 2393.7 | 2375.3 |
| 12.5° | 2472.5 | 2476.6 | 2479.7 | 2485.8 | 2494.0 | 2506.3 | 2517.5 | 2517.5 | 2512.4 | 2486.8 | 2459.2 |
| 15° | 2577.9 | 2582.0 | 2581.0 | 2583.0 | 2598.4 | 2615.8 | 2625.0 | 2631.1 | 2633.2 | 2597.4 | 2554.4 |
| 17.5° | 2698.7 | 2702.8 | 2698.7 | 2692.5 | 2694.6 | 2722.2 | 2738.6 | 2761.1 | 2774.4 | 2726.3 | 2657.8 |
| 20° | 2808.2 | 2804.1 | 2804.1 | 2808.2 | 2814.3 | 2848.1 | 2872.7 | 2909.5 | 2925.9 | 2867.5 | 2761.1 |
| 22.5° | 2923.8 | 2933.0 | 2929.0 | 2929.0 | 2953.5 | 3009.8 | 3039.5 | 3087.6 | 3105.0 | 3029.2 | 2886.0 |
| 25° | 3073.2 | 3081.4 | 3079.4 | 3081.4 | 3110.1 | 3189.9 | 3219.6 | 3308.6 | 3326.0 | 3217.5 | 3024.1 |
| 27.5° | 3237.0 | 3250.3 | 3256.4 | 3254.4 | 3300.4 | 3404.8 | 3441.7 | 3565.5 | 3597.2 | 3428.4 | 3171.5 |
| 30° | 3449.9 | 3464.2 | 3469.3 | 3467.3 | 3521.5 | 3663.7 | 3705.7 | 3846.9 | 3892.0 | 3678.1 | 3358.8 |
| 32.5° | 3696.5 | 3710.8 | 3726.2 | 3732.3 | 3801.9 | 3947.2 | 4007.6 | 4154.0 | 4218.4 | 3966.7 | 3584.9 |
| 35° | 3941.1 | 3953.4 | 3983.0 | 4031.1 | 4126.3 | 4274.7 | 4327.9 | 4472.2 | 4534.7 | 4266.5 | 3858.2 |
| 37.5° | 4211.3 | 4219.4 | 4245.0 | 4311.6 | 4448.7 | 4589.9 | 4643.1 | 4781.3 | 4788.5 | 4556.1 | 4167.3 |
| 40° | 4507.0 | 4507.0 | 4501.9 | 4567.4 | 4710.7 | 4852.9 | 4899.0 | 4978.8 | 4936.8 | 4779.2 | 4468.1 |
| 42.5° | 4757.8 | 4753.7 | 4757.8 | 4819.2 | 4925.6 | 5041.2 | 5081.1 | 5065.8 | 5012.6 | 4950.2 | 4740.4 |
| 45° | 4983.9 | 4987.0 | 5023.8 | 5070.9 | 5126.2 | 5194.7 | 5218.3 | 5131.3 | 5083.2 | 5087.3 | 4958.3 |
| 47.5° | 5137.4 | 5140.5 | 5226.5 | 5305.3 | 5339.0 | 5360.5 | 5350.3 | 5229.5 | 5205.0 | 5251.0 | 5126.2 |
| 50° | 5157.9 | 5174.3 | 5322.7 | 5484.4 | 5568.3 | 5571.4 | 5542.7 | 5395.3 | 5388.2 | 5440.4 | 5216.2 |
| 52.5° | 5162.0 | 5178.4 | 5363.6 | 5655.3 | 5873.3 | 5919.3 | 5886.6 | 5733.0 | 5658.3 | 5606.1 | 5326.8 |
| 55° | 5146.6 | 5165.1 | 5369.7 | 5769.9 | 6187.4 | 6371.6 | 6374.7 | 6157.8 | 5919.3 | 5884.5 | 5642.0 |
| 57.5° | 4543.9 | 4551.0 | 4868.3 | 5478.2 | 6175.2 | 6697.1 | 6737.0 | 6442.3 | 6170.0 | 6137.3 | 5894.7 |
| 60° | 3165.4 | 3194.0 | 3538.9 | 4344.3 | 5187.6 | 6107.6 | 6236.6 | 6150.6 | 5968.4 | 5730.0 | 5057.6 |
| 62.5° | 1585.2 | 1609.8 | 1955.7 | 2717.1 | 3577.8 | 4304.4 | 4442.5 | 4533.6 | 4576.6 | 4320.8 | 3443.7 |
| 65° | 682.6 | 701.0 | 915.9 | 1419.4 | 2025.3 | 2376.3 | 2424.4 | 2533.9 | 2802.0 | 2500.1 | 1855.4 |
| 67.5° | 456.4 | 468.7 | 578.2 | 865.8 | 1193.3 | 1215.8 | 1208.6 | 1232.2 | 1290.5 | 1065.4 | 838.2 |
| 70° | 350.0 | 360.2 | 433.9 | 634.5 | 857.6 | 733.8 | 694.9 | 630.4 | 684.6 | 698.0 | 679.5 |
| 72.5° | 253.8 | 262.0 | 317.3 | 432.9 | 537.3 | 468.7 | 462.6 | 495.3 | 569.0 | 589.5 | 578.2 |
| 75° | 163.7 | 167.8 | 201.6 | 237.4 | 277.3 | 300.9 | 313.2 | 372.5 | 447.2 | 462.6 | 449.3 |
| 77.5° | 109.5 | 112.6 | 132.0 | 152.5 | 157.6 | 158.6 | 162.7 | 189.3 | 240.5 | 269.2 | 266.1 |
| 80° | 57.3 | 57.3 | 64.5 | 64.5 | 73.7 | 88.0 | 92.1 | 109.5 | 133.0 | 147.4 | 148.4 |
| 82.5° | 22.5 | 23.5 | 27.6 | 30.7 | 36.8 | 45.0 | 48.1 | 57.3 | 69.6 | 79.8 | 89.0 |
| 85° | 9.2 | 10.2 | 11.3 | 13.3 | 16.4 | 20.5 | 21.5 | 24.6 | 32.7 | 40.9 | 46.1 |
| 87.5° | 0.0 | 0.0 | 1.0 | 1.0 | 2.0 | 3.1 | 3.1 | 4.1 | 5.1 | 9.2 | 12.3 |
| 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° | 2259.7 | 2259.7 | 2259.7 | 2259.7 | 2259.7 | 2259.7 | 2259.7 | 2259.7 | 2259.7 | 2259.7 | 2259.7 |
| 2.5° | 2266.8 | 2253.5 | 2266.8 | 2270.9 | 2282.2 | 2286.3 | 2279.1 | 2278.1 | 2278.1 | 2267.8 | 2264.8 |
| 5° | 2282.2 | 2269.9 | 2283.2 | 2289.3 | 2305.7 | 2315.9 | 2318.0 | 2326.2 | 2331.3 | 2327.2 | 2326.2 |
| 7.5° | 2320.0 | 2304.7 | 2319.0 | 2328.2 | 2349.7 | 2366.1 | 2373.2 | 2391.7 | 2405.0 | 2402.9 | 2401.9 |
| 10° | 2386.6 | 2366.1 | 2382.5 | 2397.8 | 2421.3 | 2440.8 | 2441.8 | 2452.0 | 2465.4 | 2461.3 | 2459.2 |
| 12.5° | 2463.3 | 2443.9 | 2462.3 | 2477.6 | 2505.3 | 2513.5 | 2500.1 | 2496.1 | 2498.1 | 2493.0 | 2488.9 |
| 15° | 2557.5 | 2529.8 | 2546.2 | 2563.6 | 2579.0 | 2569.7 | 2541.1 | 2529.8 | 2528.8 | 2521.6 | 2517.5 |
| 17.5° | 2651.6 | 2616.8 | 2629.1 | 2638.3 | 2631.1 | 2602.5 | 2566.7 | 2547.2 | 2538.0 | 2523.7 | 2519.6 |
| 20° | 2744.7 | 2700.7 | 2698.7 | 2691.5 | 2658.8 | 2606.6 | 2558.5 | 2519.6 | 2496.1 | 2476.6 | 2469.4 |
| 22.5° | 2851.2 | 2789.8 | 2759.1 | 2726.3 | 2654.7 | 2569.7 | 2497.1 | 2441.8 | 2404.0 | 2379.4 | 2371.2 |
| 25° | 2965.8 | 2878.8 | 2815.4 | 2749.9 | 2613.7 | 2490.9 | 2389.6 | 2313.9 | 2268.9 | 2242.3 | 2233.0 |
| 27.5° | 3079.4 | 2959.7 | 2864.5 | 2752.9 | 2531.9 | 2377.3 | 2241.2 | 2138.9 | 2093.9 | 2072.4 | 2065.2 |
| 30° | 3232.9 | 3067.1 | 2922.8 | 2713.0 | 2424.4 | 2219.7 | 2049.9 | 1946.5 | 1916.8 | 1901.5 | 1895.3 |
| 32.5° | 3409.9 | 3203.2 | 3000.6 | 2629.1 | 2287.3 | 2035.5 | 1856.4 | 1784.8 | 1764.3 | 1734.7 | 1733.6 |
| 35° | 3643.3 | 3397.7 | 3074.3 | 2505.3 | 2114.3 | 1838.0 | 1708.0 | 1656.9 | 1620.0 | 1573.0 | 1568.9 |
| 37.5° | 3915.5 | 3640.2 | 3114.2 | 2347.7 | 1912.7 | 1675.3 | 1597.5 | 1540.2 | 1480.8 | 1418.4 | 1410.2 |
| 40° | 4196.9 | 3923.7 | 3117.3 | 2161.4 | 1715.2 | 1567.8 | 1502.3 | 1427.6 | 1353.9 | 1284.4 | 1275.1 |
| 42.5° | 4492.7 | 4187.7 | 3063.0 | 1946.5 | 1553.5 | 1474.7 | 1408.2 | 1314.0 | 1231.1 | 1184.1 | 1178.9 |
| 45° | 4756.7 | 4400.6 | 2940.2 | 1720.3 | 1433.8 | 1396.9 | 1312.0 | 1210.7 | 1166.7 | 1132.9 | 1125.7 |
| 47.5° | 4964.5 | 4541.8 | 2774.4 | 1517.7 | 1336.6 | 1317.1 | 1206.6 | 1154.4 | 1120.6 | 1089.9 | 1082.7 |
| 50° | 5066.8 | 4573.5 | 2558.5 | 1352.9 | 1246.5 | 1223.0 | 1147.2 | 1107.3 | 1084.8 | 1060.2 | 1054.1 |
| 52.5° | 5193.7 | 4609.4 | 2372.2 | 1214.8 | 1158.5 | 1126.8 | 1098.1 | 1066.4 | 1050.0 | 1034.7 | 1029.5 |
| 55° | 5485.4 | 4744.4 | 2274.0 | 1104.2 | 1074.6 | 1060.2 | 1056.1 | 1029.5 | 1024.4 | 1014.2 | 1005.0 |
| 57.5° | 5604.1 | 4657.5 | 2041.7 | 1014.2 | 1008.0 | 1010.1 | 1020.3 | 995.8 | 990.6 | 978.4 | 972.2 |
| 60° | 4507.0 | 3520.5 | 1382.6 | 936.4 | 952.8 | 966.1 | 976.3 | 951.8 | 944.6 | 942.5 | 934.4 |
| 62.5° | 2888.0 | 2165.5 | 965.1 | 863.7 | 888.3 | 904.7 | 910.8 | 887.3 | 882.2 | 898.5 | 899.6 |
| 65° | 1503.4 | 1180.0 | 782.9 | 786.0 | 806.4 | 831.0 | 843.3 | 835.1 | 833.0 | 850.4 | 851.5 |
| 67.5° | 767.5 | 721.5 | 682.6 | 693.9 | 710.2 | 742.0 | 770.6 | 806.4 | 818.7 | 820.8 | 821.8 |
| 70° | 653.9 | 633.5 | 614.0 | 621.2 | 638.6 | 656.0 | 683.6 | 701.0 | 680.6 | 675.4 | 673.4 |
| 72.5° | 556.7 | 541.4 | 532.2 | 540.4 | 549.6 | 546.5 | 538.3 | 546.5 | 549.6 | 550.6 | 551.6 |
| 75° | 432.9 | 421.6 | 414.5 | 415.5 | 415.5 | 404.2 | 388.9 | 379.7 | 369.4 | 361.3 | 361.3 |
| 77.5° | 265.1 | 267.1 | 274.3 | 273.2 | 272.2 | 268.1 | 252.8 | 244.6 | 220.0 | 212.9 | 212.9 |
| 80° | 151.5 | 154.5 | 161.7 | 163.7 | 163.7 | 158.6 | 143.3 | 134.1 | 122.8 | 117.7 | 116.7 |
| 82.5° | 92.1 | 96.2 | 100.3 | 102.3 | 103.4 | 97.2 | 83.9 | 76.8 | 70.6 | 65.5 | 65.5 |
| 85° | 48.1 | 50.1 | 54.2 | 55.3 | 52.2 | 46.1 | 38.9 | 35.8 | 29.7 | 28.7 | 28.7 |
| 87.5° | 13.3 | 14.3 | 16.4 | 13.3 | 12.3 | 9.2 | 5.1 | 4.1 | 2.0 | 1.0 | 1.0 |
| 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)