

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: P637297

Luminaire Tested: GWS-SA4C-740-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-740-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19245.3 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

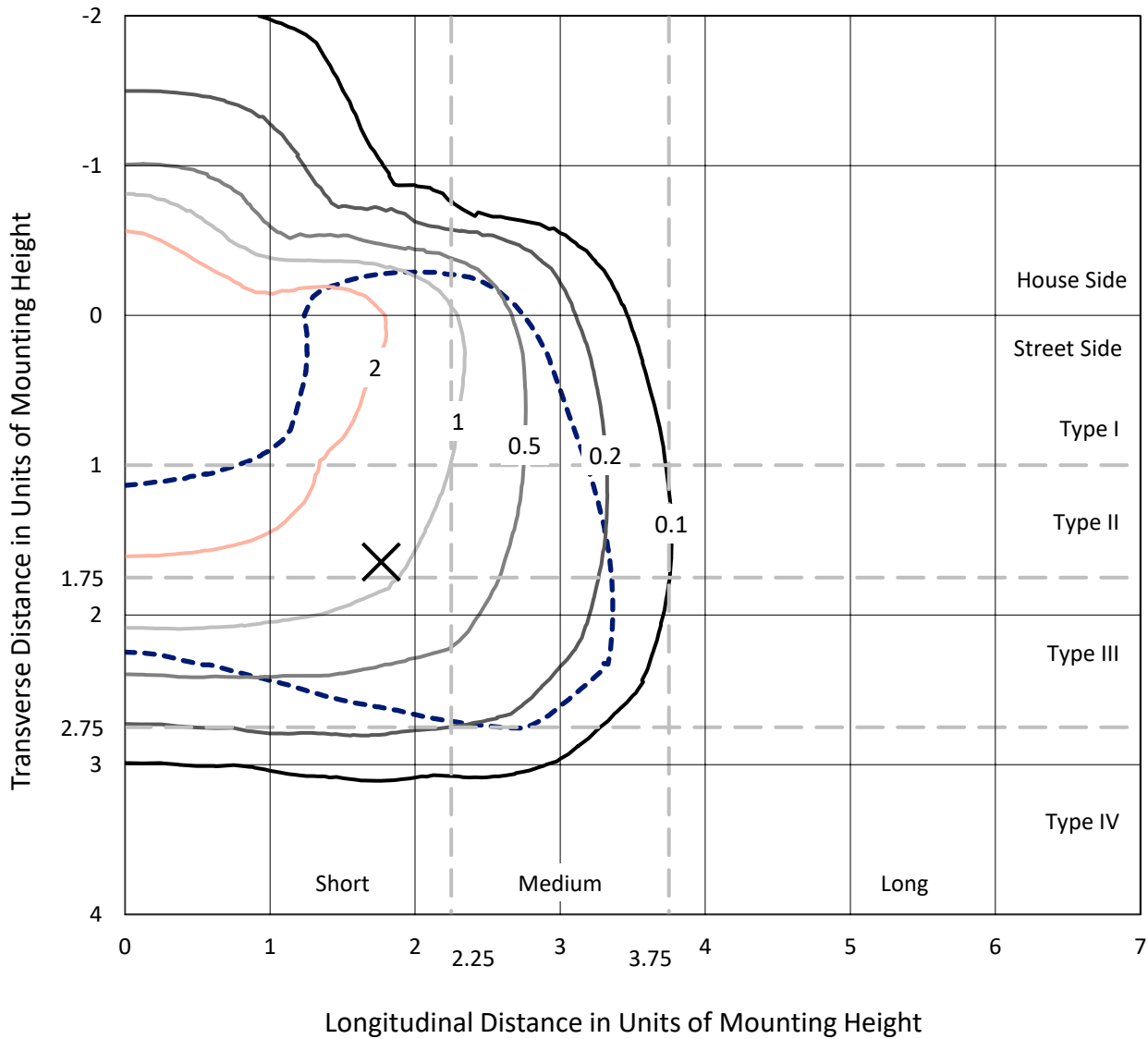
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

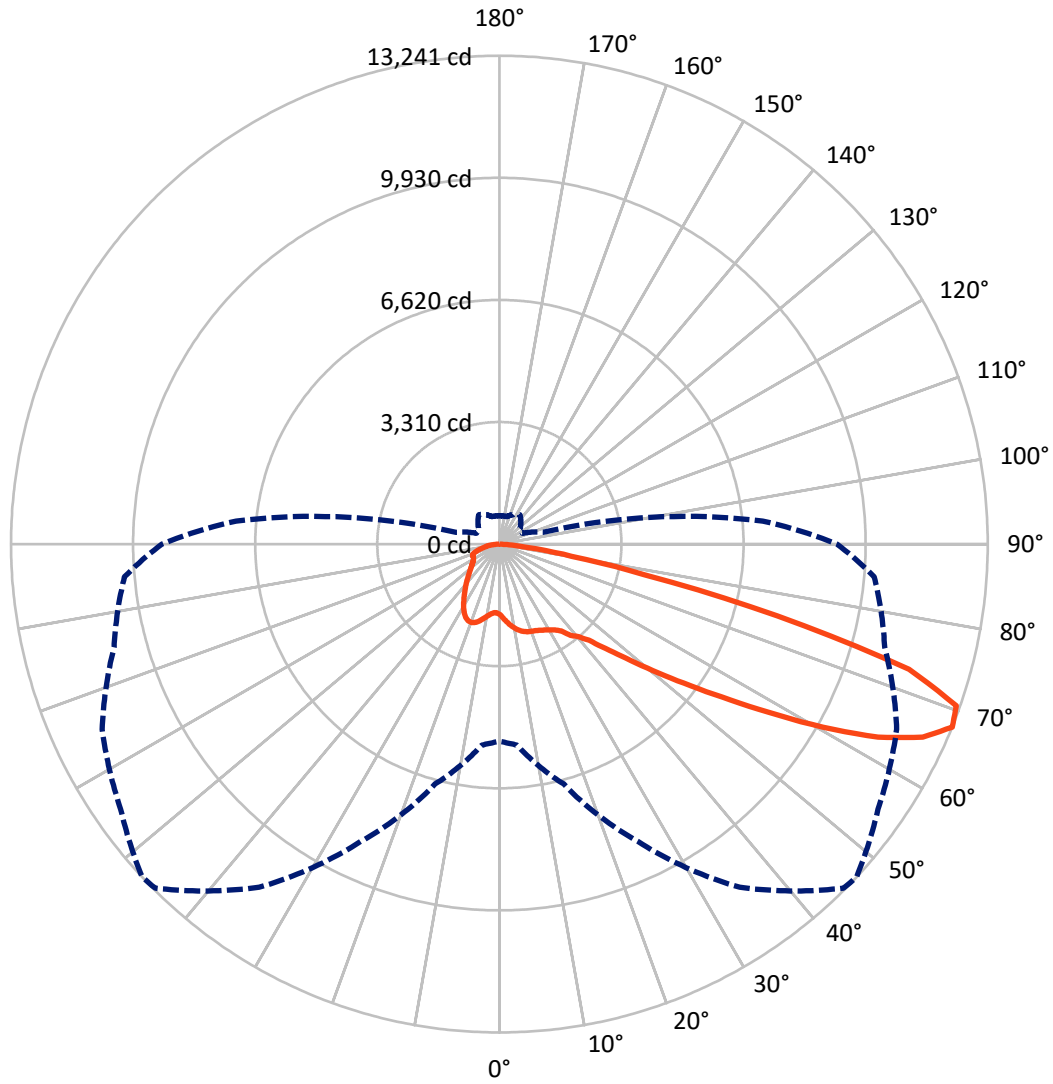
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4386.1 | 0.0 | 4386.1 |
| | % Fixture | 22.8 | 0.0 | 22.8 |
| Street Side | Lumens | 14859.1 | 0.0 | 14859.1 |
| | % Fixture | 77.2 | 0.0 | 77.2 |
| Total | Lumens | 19245.3 | 0.0 | 19245.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 195.0 | 1.0 |
| 10°-20° | 649.6 | 3.4 |
| 20°-30° | 1104.2 | 5.7 |
| 30°-40° | 1617.5 | 8.4 |
| 40°-50° | 2464.4 | 12.8 |
| 50°-60° | 4409.4 | 22.9 |
| 60°-70° | 5883.8 | 30.6 |
| 70°-80° | 2660.8 | 13.8 |
| 80°-90° | 260.7 | 1.4 |
| 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° | 19245.3 | 100.0 |
| 0°-180° | 19245.3 | 100.0 |

Coefficient of Utilization



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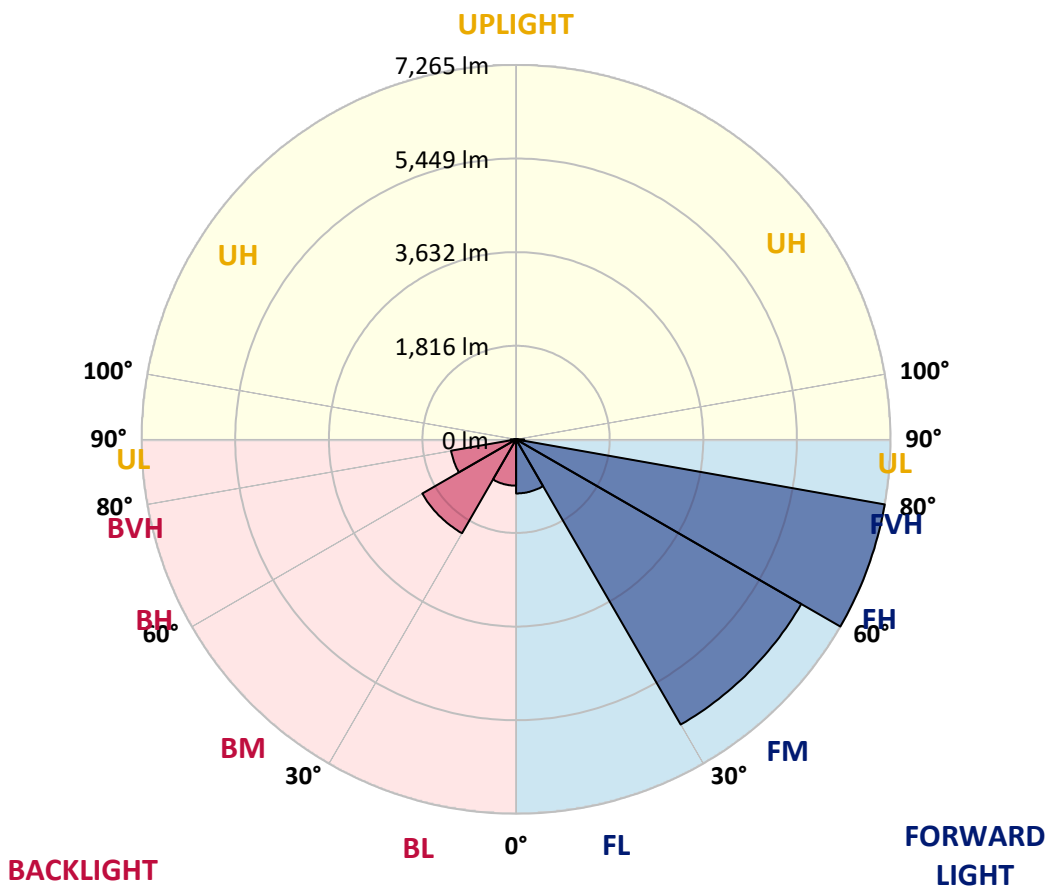
CATALOG NUMBER: GWS-SA4C-740-U-T4W-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1049.6 | 5.5 | | | |
| FM (30°-60°) | 6389.6 | 33.2 | | | |
| FH (60°-80°) | 7264.9 | 37.7 | | | G3/7500 |
| FVH (80°-90°) | 155.1 | 0.8 | | | G2/225 |
| BL (0°-30°) | 899.2 | 4.7 | B2/1000 | | |
| BM (30°-60°) | 2101.6 | 10.9 | B2/2500 | | |
| BH (60°-80°) | 1279.7 | 6.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 105.6 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 |
| 2.5° | 2034.4 | 2041.4 | 2040.0 | 2028.9 | 2021.9 | 2009.4 | 2010.8 | 1991.3 | 1962.1 | 1942.6 | 1920.3 |
| 5° | 2214.0 | 2225.1 | 2211.2 | 2193.1 | 2165.3 | 2124.9 | 2120.7 | 2076.2 | 2020.5 | 1981.6 | 1941.2 |
| 7.5° | 2369.8 | 2376.8 | 2360.1 | 2329.5 | 2289.1 | 2234.8 | 2225.1 | 2172.2 | 2102.6 | 2041.4 | 1983.0 |
| 10° | 2490.9 | 2499.2 | 2477.0 | 2436.6 | 2383.7 | 2329.5 | 2322.5 | 2268.2 | 2194.5 | 2122.1 | 2048.4 |
| 12.5° | 2593.9 | 2596.6 | 2573.0 | 2518.7 | 2461.7 | 2406.0 | 2399.0 | 2348.9 | 2280.8 | 2207.0 | 2126.3 |
| 15° | 2653.7 | 2655.1 | 2625.9 | 2566.0 | 2511.8 | 2463.0 | 2458.9 | 2415.7 | 2353.1 | 2283.5 | 2197.3 |
| 17.5° | 2649.5 | 2652.3 | 2631.4 | 2578.5 | 2531.2 | 2502.0 | 2497.8 | 2470.0 | 2421.3 | 2358.7 | 2272.4 |
| 20° | 2598.0 | 2600.8 | 2586.9 | 2552.1 | 2527.1 | 2518.7 | 2520.1 | 2511.8 | 2482.5 | 2431.0 | 2343.4 |
| 22.5° | 2557.7 | 2561.8 | 2549.3 | 2524.3 | 2521.5 | 2541.0 | 2545.1 | 2549.3 | 2535.4 | 2489.5 | 2404.6 |
| 25° | 2577.2 | 2584.1 | 2564.6 | 2529.8 | 2535.4 | 2578.5 | 2586.9 | 2600.8 | 2589.7 | 2550.7 | 2477.0 |
| 27.5° | 2712.1 | 2716.3 | 2666.2 | 2595.2 | 2578.5 | 2624.5 | 2637.0 | 2659.3 | 2650.9 | 2614.7 | 2557.7 |
| 30° | 3025.2 | 3022.5 | 2915.3 | 2741.4 | 2671.8 | 2689.9 | 2699.6 | 2731.6 | 2734.4 | 2710.7 | 2656.5 |
| 32.5° | 3466.4 | 3452.4 | 3286.8 | 3009.9 | 2808.2 | 2763.6 | 2774.8 | 2817.9 | 2849.9 | 2824.9 | 2751.1 |
| 35° | 3932.5 | 3920.0 | 3737.7 | 3413.5 | 3060.0 | 2905.6 | 2893.0 | 2926.4 | 2975.1 | 2905.6 | 2799.8 |
| 37.5° | 4376.4 | 4357.0 | 4170.5 | 3769.7 | 3370.3 | 3154.6 | 3136.6 | 3103.2 | 3073.9 | 2940.4 | 2859.6 |
| 40° | 4869.0 | 4846.8 | 4684.0 | 4230.3 | 3712.7 | 3345.3 | 3299.4 | 3167.2 | 3140.7 | 3055.8 | 3015.5 |
| 42.5° | 5395.0 | 5395.0 | 5260.1 | 4813.4 | 4126.0 | 3618.0 | 3558.2 | 3359.2 | 3387.0 | 3331.4 | 3284.1 |
| 45° | 5921.1 | 5936.4 | 5829.2 | 5400.6 | 4678.4 | 4132.9 | 4036.9 | 3754.4 | 3821.2 | 3796.2 | 3772.5 |
| 47.5° | 6369.1 | 6398.4 | 6377.5 | 6000.4 | 5354.7 | 4759.1 | 4613.0 | 4319.4 | 4462.7 | 4522.5 | 4589.3 |
| 50° | 6852.0 | 6884.0 | 6863.1 | 6714.2 | 6146.5 | 5517.5 | 5386.7 | 5083.3 | 5329.6 | 5509.2 | 5727.6 |
| 52.5° | 7568.7 | 7614.6 | 7440.6 | 7383.6 | 7108.0 | 6378.9 | 6262.0 | 5916.9 | 6363.6 | 6661.4 | 7148.4 |
| 55° | 8174.0 | 8172.6 | 8111.4 | 8242.2 | 8140.6 | 7432.3 | 7302.9 | 6989.8 | 7560.3 | 7876.2 | 8588.7 |
| 57.5° | 8455.1 | 8488.5 | 8698.6 | 9068.7 | 9271.9 | 8719.5 | 8595.6 | 8275.6 | 8844.7 | 9008.9 | 9778.4 |
| 60° | 8599.8 | 8641.5 | 9047.9 | 9779.8 | 10326.7 | 10124.9 | 10076.2 | 9668.5 | 9988.6 | 9969.1 | 10781.7 |
| 62.5° | 8396.6 | 8480.1 | 9132.8 | 10105.5 | 11079.5 | 11537.4 | 11522.1 | 10905.6 | 10961.3 | 10770.6 | 11403.8 |
| 65° | 7464.3 | 7554.7 | 8578.9 | 9942.6 | 11509.5 | 12611.6 | 12615.8 | 12025.8 | 11708.5 | 11160.2 | 11299.4 |
| 67.5° | 5338.0 | 5467.4 | 6733.7 | 8896.2 | 11357.9 | 13191.9 | 13240.6 | 12533.7 | 11883.9 | 10815.1 | 10202.9 |
| 70° | 2909.7 | 3004.4 | 3996.5 | 6466.5 | 9991.3 | 13052.8 | 13143.2 | 12288.8 | 11110.2 | 9355.4 | 7853.9 |
| 72.5° | 1322.0 | 1352.6 | 1859.1 | 3548.5 | 6825.6 | 11235.4 | 11613.9 | 10966.8 | 9124.4 | 6910.4 | 4994.3 |
| 75° | 605.3 | 619.2 | 809.9 | 1697.7 | 3566.5 | 7518.6 | 7784.3 | 8168.4 | 6349.7 | 4363.9 | 2603.6 |
| 77.5° | 379.9 | 384.1 | 460.6 | 776.5 | 1778.4 | 3753.0 | 4032.7 | 4863.5 | 3718.2 | 2159.7 | 1088.2 |
| 80° | 224.0 | 228.2 | 286.7 | 420.2 | 834.9 | 1717.2 | 1983.0 | 1923.1 | 1747.8 | 932.3 | 495.4 |
| 82.5° | 112.7 | 116.9 | 165.6 | 239.3 | 455.0 | 683.3 | 804.3 | 808.5 | 651.2 | 505.1 | 279.7 |
| 85° | 40.4 | 41.7 | 54.3 | 94.6 | 193.4 | 225.4 | 251.9 | 307.5 | 318.7 | 293.6 | 135.0 |
| 87.5° | 0.0 | 0.0 | 1.4 | 2.8 | 5.6 | 22.3 | 23.7 | 44.5 | 93.2 | 104.4 | 54.3 |
| 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° | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 |
| 2.5° | 1913.4 | 1892.5 | 1885.6 | 1878.6 | 1867.5 | 1863.3 | 1854.9 | 1846.6 | 1846.6 | 1838.2 | 1834.1 |
| 5° | 1923.1 | 1895.3 | 1877.2 | 1868.9 | 1861.9 | 1866.1 | 1866.1 | 1868.9 | 1878.6 | 1873.0 | 1875.8 |
| 7.5° | 1957.9 | 1925.9 | 1900.9 | 1893.9 | 1893.9 | 1910.6 | 1921.7 | 1935.6 | 1953.7 | 1956.5 | 1956.5 |
| 10° | 2019.1 | 1981.6 | 1955.1 | 1951.0 | 1957.9 | 1981.6 | 1998.3 | 2015.0 | 2037.2 | 2038.6 | 2041.4 |
| 12.5° | 2085.9 | 2048.4 | 2021.9 | 2027.5 | 2034.4 | 2065.1 | 2083.2 | 2097.1 | 2119.3 | 2119.3 | 2117.9 |
| 15° | 2155.5 | 2113.8 | 2091.5 | 2102.6 | 2123.5 | 2158.3 | 2161.1 | 2162.5 | 2173.6 | 2170.8 | 2169.4 |
| 17.5° | 2227.9 | 2183.3 | 2166.6 | 2183.3 | 2205.6 | 2222.3 | 2208.4 | 2188.9 | 2184.7 | 2179.2 | 2176.4 |
| 20° | 2298.8 | 2252.9 | 2246.0 | 2258.5 | 2265.4 | 2251.5 | 2208.4 | 2172.2 | 2155.5 | 2147.2 | 2144.4 |
| 22.5° | 2360.1 | 2321.1 | 2316.9 | 2316.9 | 2282.1 | 2233.4 | 2169.4 | 2120.7 | 2098.5 | 2087.3 | 2084.5 |
| 25° | 2432.4 | 2396.3 | 2389.3 | 2351.7 | 2262.7 | 2173.6 | 2087.3 | 2042.8 | 2024.7 | 2019.1 | 2020.5 |
| 27.5° | 2517.3 | 2492.3 | 2470.0 | 2362.9 | 2207.0 | 2067.8 | 1970.4 | 1951.0 | 1944.0 | 1951.0 | 1955.1 |
| 30° | 2621.7 | 2596.6 | 2546.5 | 2348.9 | 2117.9 | 1930.1 | 1836.8 | 1835.5 | 1856.3 | 1874.4 | 1877.2 |
| 32.5° | 2706.6 | 2695.4 | 2613.3 | 2304.4 | 1992.7 | 1778.4 | 1699.1 | 1704.7 | 1742.2 | 1767.3 | 1771.4 |
| 35° | 2773.4 | 2791.5 | 2669.0 | 2230.7 | 1843.8 | 1635.1 | 1572.5 | 1575.2 | 1596.1 | 1630.9 | 1632.3 |
| 37.5° | 2868.0 | 2929.2 | 2719.1 | 2117.9 | 1672.6 | 1511.2 | 1454.2 | 1433.3 | 1430.5 | 1440.3 | 1443.0 |
| 40° | 3058.6 | 3150.5 | 2755.3 | 1953.7 | 1507.1 | 1399.9 | 1335.9 | 1295.5 | 1260.7 | 1234.3 | 1226.0 |
| 42.5° | 3346.7 | 3452.4 | 2776.1 | 1754.7 | 1359.5 | 1290.0 | 1217.6 | 1166.1 | 1104.9 | 1049.2 | 1029.7 |
| 45° | 3875.5 | 3910.3 | 2776.1 | 1543.2 | 1228.7 | 1187.0 | 1114.6 | 1053.4 | 975.5 | 910.1 | 896.2 |
| 47.5° | 4721.5 | 4610.2 | 2778.9 | 1338.7 | 1113.2 | 1096.5 | 1033.9 | 964.3 | 878.1 | 823.8 | 815.4 |
| 50° | 5996.2 | 5605.2 | 2836.0 | 1168.9 | 1017.2 | 1020.0 | 974.1 | 897.6 | 819.6 | 779.3 | 772.3 |
| 52.5° | 7440.6 | 6831.1 | 2989.1 | 1043.7 | 936.5 | 957.4 | 932.3 | 858.6 | 789.0 | 754.2 | 747.3 |
| 55° | 8798.8 | 7958.3 | 3119.9 | 954.6 | 868.3 | 904.5 | 903.1 | 834.9 | 772.3 | 737.5 | 733.3 |
| 57.5° | 9953.8 | 8730.6 | 3100.4 | 882.2 | 809.9 | 855.8 | 876.7 | 819.6 | 761.2 | 732.0 | 727.8 |
| 60° | 10671.8 | 9139.7 | 2823.5 | 815.4 | 765.4 | 821.0 | 861.4 | 815.4 | 766.7 | 759.8 | 761.2 |
| 62.5° | 10983.5 | 9064.6 | 2291.9 | 765.4 | 736.1 | 804.3 | 878.1 | 844.7 | 818.2 | 834.9 | 844.7 |
| 65° | 10499.3 | 8418.9 | 1686.6 | 727.8 | 708.3 | 808.5 | 917.0 | 890.6 | 818.2 | 829.4 | 833.5 |
| 67.5° | 9155.0 | 7166.5 | 1219.0 | 690.2 | 673.5 | 821.0 | 972.7 | 883.6 | 770.9 | 770.9 | 762.6 |
| 70° | 6597.3 | 5154.3 | 885.0 | 652.6 | 638.7 | 802.9 | 975.5 | 836.3 | 716.6 | 712.5 | 691.6 |
| 72.5° | 3970.1 | 3040.5 | 690.2 | 610.9 | 585.8 | 712.5 | 914.2 | 780.7 | 663.8 | 629.0 | 603.9 |
| 75° | 2062.3 | 1523.7 | 578.9 | 565.0 | 502.4 | 603.9 | 836.3 | 694.4 | 567.8 | 537.1 | 523.2 |
| 77.5° | 883.6 | 712.5 | 496.8 | 503.7 | 417.5 | 507.9 | 674.9 | 601.2 | 503.7 | 464.8 | 452.3 |
| 80° | 435.6 | 404.9 | 392.4 | 403.6 | 334.0 | 392.4 | 581.7 | 526.0 | 427.2 | 382.7 | 364.6 |
| 82.5° | 249.1 | 236.6 | 282.5 | 286.7 | 238.0 | 328.4 | 491.2 | 445.3 | 353.5 | 304.7 | 275.5 |
| 85° | 115.5 | 123.8 | 171.2 | 172.6 | 147.5 | 225.4 | 321.4 | 250.5 | 187.9 | 155.9 | 148.9 |
| 87.5° | 45.9 | 54.3 | 75.1 | 73.8 | 43.1 | 41.7 | 27.8 | 15.3 | 12.5 | 11.1 | 9.7 |
| 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)