

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: P633940

Luminaire Tested: GWS-SA2F-760-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-760-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15809 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

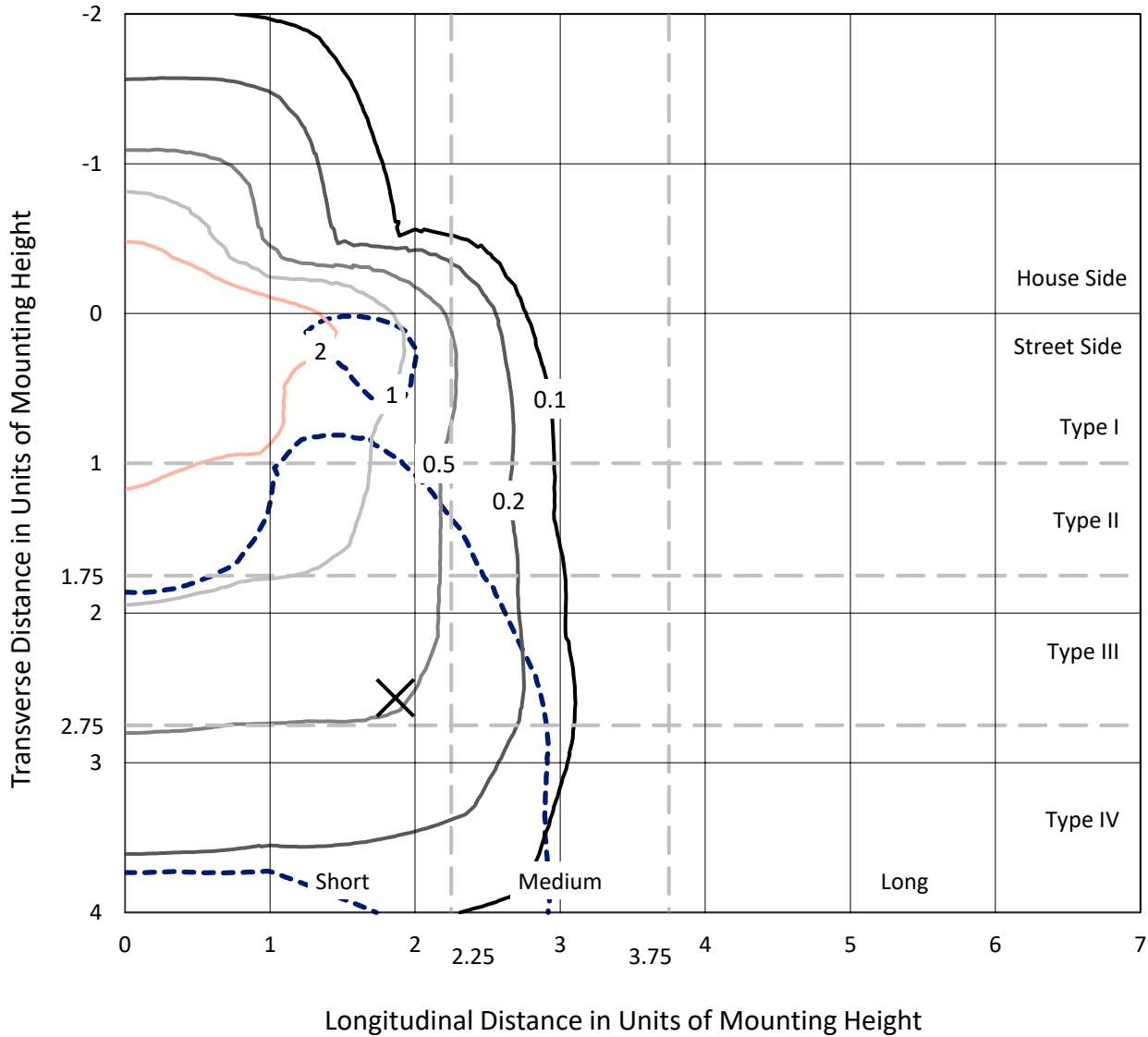
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

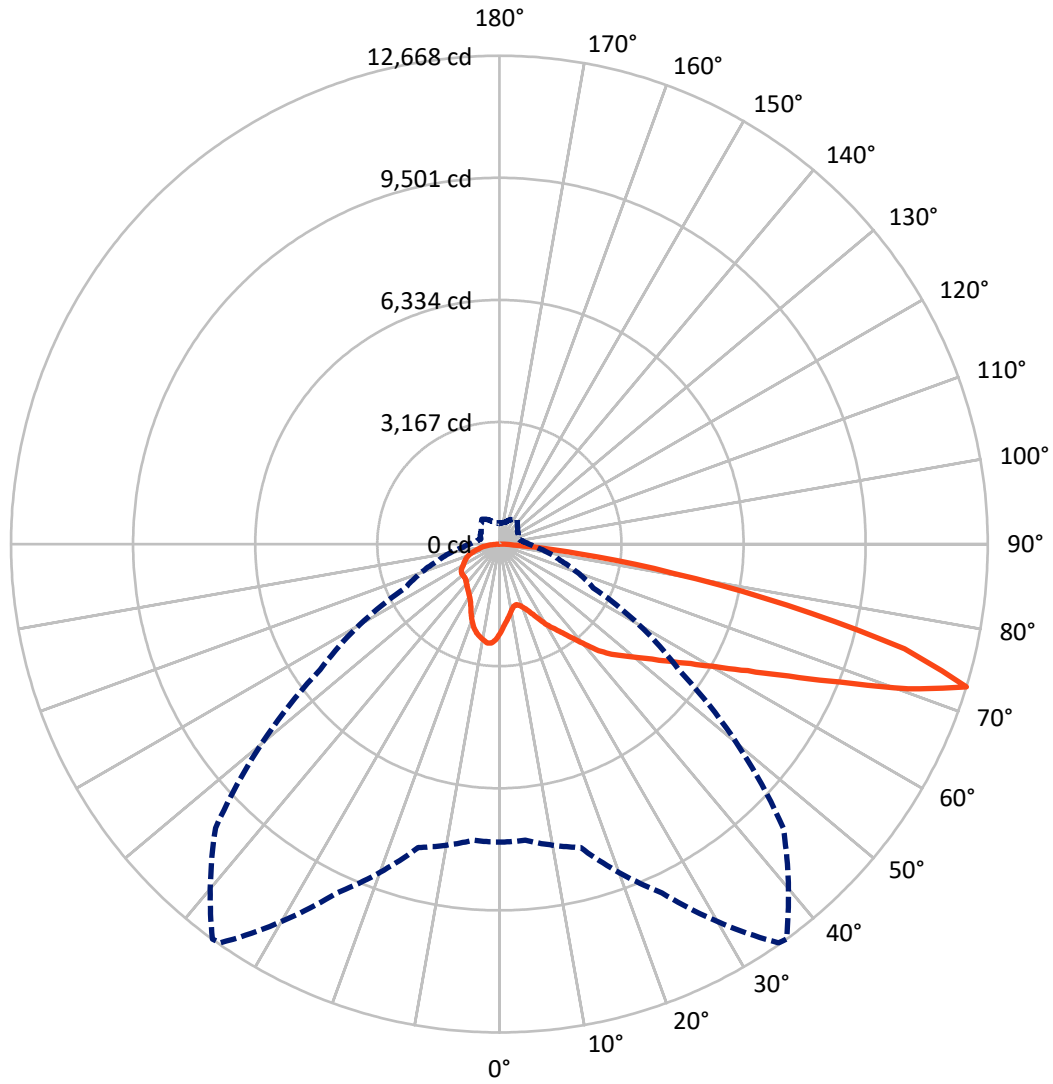
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3644.7 | 0.0 | 3644.7 |
| | % Fixture | 23.1 | 0.0 | 23.1 |
| Street Side | Lumens | 12164.3 | 0.0 | 12164.3 |
| | % Fixture | 76.9 | 0.0 | 76.9 |
| Total | Lumens | 15809.0 | 0.0 | 15809.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 216.3 | 1.4 |
| 10°-20° | 610.2 | 3.9 |
| 20°-30° | 1010.5 | 6.4 |
| 30°-40° | 1513.4 | 9.6 |
| 40°-50° | 2207.9 | 14.0 |
| 50°-60° | 3142.5 | 19.9 |
| 60°-70° | 3970.3 | 25.1 |
| 70°-80° | 2829.2 | 17.9 |
| 80°-90° | 308.8 | 2.0 |
| 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° | 15809.0 | 100.0 |
| 0°-180° | 15809.0 | 100.0 |

Coefficient of Utilization



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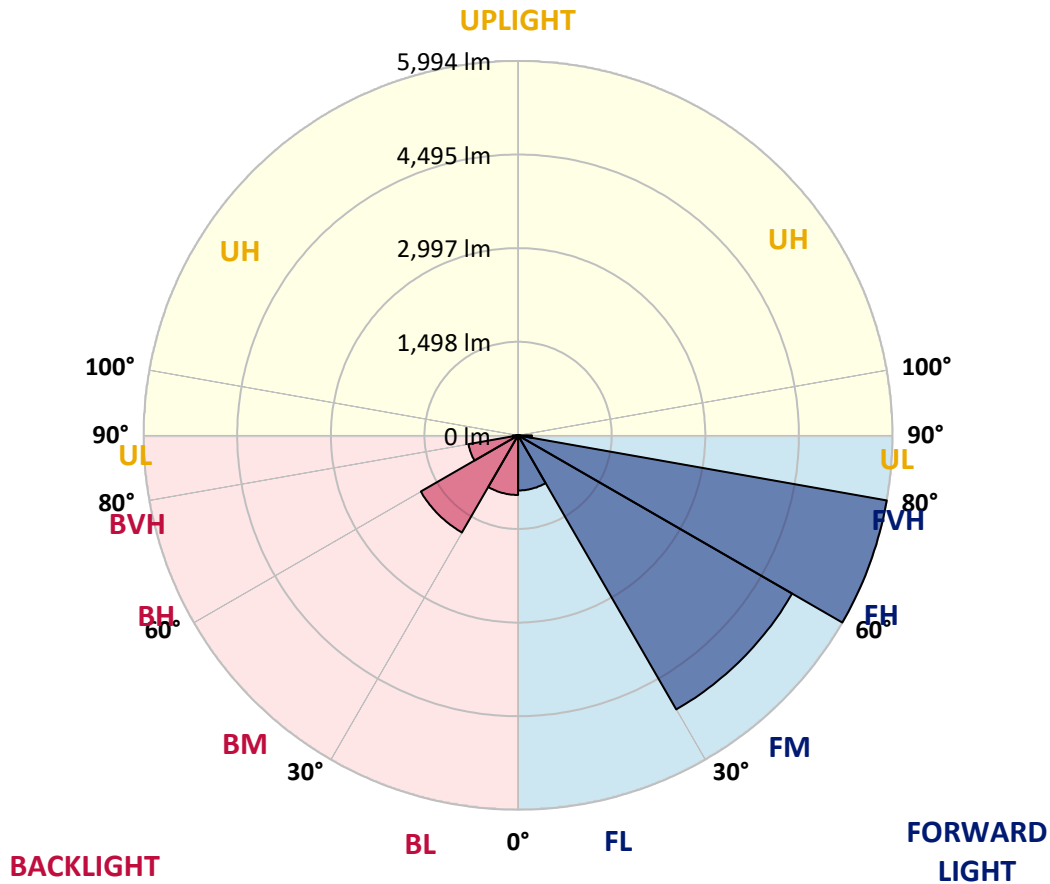
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 882.6 | 5.6 | | | |
| FM (30°-60°) | 5066.4 | 32.0 | | | |
| FH (60°-80°) | 5993.7 | 37.9 | | | G3/7500 |
| FVH (80°-90°) | 221.7 | 1.4 | | | G2/225 |
| BL (0°-30°) | 954.4 | 6.0 | B2/1000 | | |
| BM (30°-60°) | 1797.3 | 11.4 | B2/2500 | | |
| BH (60°-80°) | 805.7 | 5.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 87.2 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2313.7 | 2313.7 | 2313.7 | 2313.7 | 2313.7 | 2313.7 | 2313.7 | 2313.7 | 2313.7 | 2313.7 | 2313.7 |
| 2.5° | 2110.7 | 2107.2 | 2100.2 | 2121.3 | 2142.4 | 2140.1 | 2169.4 | 2197.6 | 2228.1 | 2259.7 | 2302.0 |
| 5° | 1941.8 | 1939.4 | 1933.6 | 1965.3 | 1996.9 | 1995.8 | 2043.9 | 2089.6 | 2151.8 | 2219.9 | 2304.3 |
| 7.5° | 1772.8 | 1767.0 | 1775.2 | 1815.1 | 1859.7 | 1864.3 | 1930.1 | 2005.1 | 2095.5 | 2197.6 | 2317.2 |
| 10° | 1623.8 | 1622.7 | 1626.2 | 1670.8 | 1737.6 | 1742.3 | 1826.8 | 1931.2 | 2050.9 | 2187.0 | 2346.6 |
| 12.5° | 1585.1 | 1582.8 | 1573.4 | 1595.7 | 1646.1 | 1653.2 | 1745.8 | 1873.7 | 2020.4 | 2192.9 | 2386.5 |
| 15° | 1648.5 | 1642.6 | 1609.7 | 1599.2 | 1623.8 | 1629.7 | 1708.3 | 1839.7 | 2002.8 | 2203.4 | 2436.9 |
| 17.5° | 1757.6 | 1754.1 | 1691.9 | 1648.5 | 1664.9 | 1669.6 | 1728.2 | 1833.8 | 1998.1 | 2224.5 | 2499.1 |
| 20° | 1917.1 | 1901.9 | 1804.5 | 1738.8 | 1738.8 | 1745.8 | 1781.0 | 1859.7 | 2004.0 | 2250.4 | 2569.5 |
| 22.5° | 2128.3 | 2097.8 | 1960.6 | 1871.4 | 1847.9 | 1857.3 | 1872.6 | 1924.2 | 2028.6 | 2293.8 | 2657.5 |
| 25° | 2365.3 | 2337.2 | 2174.1 | 2048.6 | 2015.7 | 2019.2 | 2006.3 | 2015.7 | 2082.6 | 2353.6 | 2766.6 |
| 27.5° | 2617.6 | 2598.8 | 2425.2 | 2265.6 | 2214.0 | 2214.0 | 2168.2 | 2145.9 | 2157.7 | 2421.7 | 2888.6 |
| 30° | 2842.9 | 2817.1 | 2670.4 | 2495.6 | 2427.5 | 2427.5 | 2340.7 | 2292.6 | 2264.4 | 2505.0 | 3051.7 |
| 32.5° | 2961.4 | 2946.1 | 2848.7 | 2715.0 | 2631.7 | 2618.8 | 2543.7 | 2487.4 | 2421.7 | 2628.2 | 3272.3 |
| 35° | 3116.2 | 3112.7 | 3054.1 | 2949.6 | 2844.0 | 2825.3 | 2773.6 | 2729.1 | 2615.3 | 2781.9 | 3565.6 |
| 37.5° | 3311.0 | 3305.1 | 3295.8 | 3233.6 | 3106.9 | 3103.3 | 3057.6 | 3003.6 | 2855.8 | 3003.6 | 3921.1 |
| 40° | 3529.2 | 3518.7 | 3506.9 | 3505.8 | 3429.5 | 3416.6 | 3413.1 | 3352.1 | 3145.6 | 3271.1 | 4291.9 |
| 42.5° | 3829.6 | 3793.2 | 3682.9 | 3732.2 | 3788.5 | 3776.8 | 3821.4 | 3729.9 | 3506.9 | 3589.1 | 4642.7 |
| 45° | 4199.2 | 4110.0 | 3891.8 | 3905.9 | 4047.8 | 4071.3 | 4226.2 | 4203.9 | 3904.7 | 3956.3 | 5012.3 |
| 47.5° | 4420.9 | 4343.5 | 4140.5 | 4128.8 | 4306.0 | 4335.3 | 4672.0 | 4714.3 | 4332.9 | 4398.6 | 5468.7 |
| 50° | 4602.8 | 4548.8 | 4382.2 | 4398.6 | 4586.4 | 4615.7 | 5114.3 | 5204.7 | 4736.6 | 4851.5 | 5999.0 |
| 52.5° | 4822.2 | 4744.8 | 4615.7 | 4693.1 | 4923.1 | 4958.3 | 5606.0 | 5703.3 | 5100.3 | 5349.0 | 6548.1 |
| 55° | 4945.4 | 4913.7 | 4916.1 | 5034.6 | 5323.2 | 5371.3 | 6121.0 | 6104.6 | 5433.5 | 5774.9 | 6961.1 |
| 57.5° | 5229.3 | 5217.6 | 5325.5 | 5370.1 | 5790.2 | 5852.3 | 6636.1 | 6495.3 | 5736.2 | 6104.6 | 7159.4 |
| 60° | 5730.3 | 5701.0 | 5794.9 | 5862.9 | 6367.4 | 6455.4 | 7211.0 | 6877.8 | 5941.5 | 6349.8 | 7092.5 |
| 62.5° | 6434.3 | 6397.9 | 6401.4 | 6509.4 | 7140.6 | 7233.3 | 7850.4 | 7196.9 | 6004.9 | 6387.4 | 6669.0 |
| 65° | 7309.6 | 7256.8 | 7196.9 | 7343.6 | 8167.2 | 8244.7 | 8546.2 | 7429.2 | 5853.5 | 6026.0 | 5784.3 |
| 67.5° | 8232.9 | 8189.5 | 8119.1 | 8426.5 | 9496.6 | 9543.5 | 9326.4 | 7409.3 | 5373.6 | 5059.2 | 4057.2 |
| 70° | 8286.9 | 8297.5 | 8630.7 | 9743.0 | 11231.9 | 11243.6 | 10064.4 | 7008.0 | 4351.7 | 3279.3 | 2021.6 |
| 72.5° | 7730.8 | 7713.2 | 8147.3 | 9983.5 | 12628.1 | 12668.0 | 10412.9 | 5677.5 | 2689.2 | 1635.6 | 948.0 |
| 75° | 6279.4 | 6309.9 | 6766.3 | 8735.1 | 10823.6 | 10858.8 | 8488.7 | 3347.4 | 1277.7 | 800.2 | 606.6 |
| 77.5° | 2703.2 | 2873.4 | 3773.3 | 6153.9 | 7751.9 | 7642.8 | 4375.2 | 1356.3 | 681.7 | 570.2 | 464.6 |
| 80° | 780.2 | 847.1 | 1344.6 | 2926.2 | 4645.0 | 4562.9 | 1731.8 | 508.0 | 475.2 | 428.2 | 333.2 |
| 82.5° | 252.3 | 279.2 | 492.8 | 1165.1 | 2081.4 | 2079.1 | 657.0 | 300.4 | 310.9 | 291.0 | 214.7 |
| 85° | 70.4 | 81.0 | 151.4 | 353.2 | 644.1 | 631.2 | 190.1 | 142.0 | 165.4 | 167.8 | 106.8 |
| 87.5° | 0.0 | 0.0 | 1.2 | 2.3 | 2.3 | 2.3 | 4.7 | 21.1 | 48.1 | 61.0 | 43.4 |
| 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° | 2313.7 | 2313.7 | 2313.7 | 2313.7 | 2313.7 | 2313.7 | 2313.7 | 2313.7 | 2313.7 | 2313.7 | 2313.7 |
| 2.5° | 2327.8 | 2324.3 | 2372.4 | 2409.9 | 2445.1 | 2468.6 | 2475.6 | 2480.3 | 2489.7 | 2494.4 | 2489.7 |
| 5° | 2344.2 | 2361.8 | 2441.6 | 2500.3 | 2547.2 | 2575.4 | 2576.5 | 2574.2 | 2581.2 | 2575.4 | 2571.8 |
| 7.5° | 2379.4 | 2413.4 | 2514.3 | 2576.5 | 2607.0 | 2608.2 | 2580.1 | 2547.2 | 2530.8 | 2516.7 | 2512.0 |
| 10° | 2426.4 | 2476.8 | 2587.1 | 2628.2 | 2618.8 | 2575.4 | 2513.2 | 2461.6 | 2432.2 | 2411.1 | 2406.4 |
| 12.5° | 2490.9 | 2547.2 | 2651.6 | 2650.5 | 2591.8 | 2514.3 | 2441.6 | 2379.4 | 2337.2 | 2312.5 | 2304.3 |
| 15° | 2551.9 | 2623.5 | 2698.6 | 2643.4 | 2550.7 | 2456.9 | 2363.0 | 2279.7 | 2223.4 | 2184.7 | 2177.6 |
| 17.5° | 2627.0 | 2703.2 | 2732.6 | 2621.1 | 2499.1 | 2378.2 | 2252.7 | 2143.6 | 2067.3 | 2021.6 | 2018.1 |
| 20° | 2713.8 | 2781.9 | 2749.0 | 2582.4 | 2432.2 | 2273.8 | 2103.7 | 1981.7 | 1899.5 | 1855.0 | 1858.5 |
| 22.5° | 2814.7 | 2864.0 | 2753.7 | 2529.6 | 2339.5 | 2126.0 | 1935.9 | 1818.6 | 1763.4 | 1740.0 | 1741.2 |
| 25° | 2922.7 | 2954.3 | 2745.5 | 2458.0 | 2197.6 | 1945.3 | 1763.4 | 1709.5 | 1704.8 | 1698.9 | 1701.3 |
| 27.5° | 3050.5 | 3043.5 | 2720.8 | 2357.1 | 2006.3 | 1735.3 | 1642.6 | 1656.7 | 1675.5 | 1673.1 | 1675.5 |
| 30° | 3221.8 | 3155.0 | 2689.2 | 2217.5 | 1778.7 | 1559.3 | 1571.0 | 1610.9 | 1635.6 | 1637.9 | 1644.9 |
| 32.5° | 3417.8 | 3278.2 | 2638.7 | 2027.4 | 1561.6 | 1460.7 | 1504.2 | 1552.3 | 1581.6 | 1587.5 | 1596.8 |
| 35° | 3651.3 | 3419.0 | 2549.5 | 1790.4 | 1405.6 | 1402.1 | 1442.0 | 1474.8 | 1506.5 | 1508.8 | 1508.8 |
| 37.5° | 3919.9 | 3559.7 | 2407.6 | 1528.8 | 1309.4 | 1351.6 | 1389.2 | 1396.2 | 1404.4 | 1397.4 | 1400.9 |
| 40° | 4166.3 | 3695.8 | 2205.8 | 1290.6 | 1230.8 | 1307.0 | 1338.7 | 1315.3 | 1289.4 | 1271.8 | 1275.4 |
| 42.5° | 4372.8 | 3788.5 | 1938.3 | 1124.0 | 1151.0 | 1267.1 | 1291.8 | 1243.7 | 1193.2 | 1160.4 | 1165.1 |
| 45° | 4605.1 | 3874.2 | 1623.8 | 1011.4 | 1082.9 | 1239.0 | 1255.4 | 1193.2 | 1128.7 | 1079.4 | 1072.4 |
| 47.5° | 4925.5 | 4049.0 | 1344.6 | 932.8 | 1034.8 | 1223.7 | 1250.7 | 1166.2 | 1081.8 | 1007.9 | 999.6 |
| 50° | 5320.8 | 4296.6 | 1111.1 | 881.1 | 1012.5 | 1215.5 | 1249.5 | 1136.9 | 1036.0 | 949.2 | 943.3 |
| 52.5° | 5752.6 | 4538.3 | 938.6 | 841.2 | 990.3 | 1190.9 | 1243.7 | 1104.1 | 987.9 | 894.0 | 887.0 |
| 55° | 6040.1 | 4633.3 | 822.5 | 803.7 | 953.9 | 1152.2 | 1220.2 | 1072.4 | 915.2 | 829.5 | 819.0 |
| 57.5° | 6124.5 | 4511.3 | 741.5 | 769.7 | 906.9 | 1098.2 | 1175.6 | 1005.5 | 870.6 | 802.5 | 794.3 |
| 60° | 5979.1 | 4203.9 | 691.1 | 741.5 | 855.3 | 1029.0 | 1098.2 | 966.8 | 835.4 | 774.4 | 768.5 |
| 62.5° | 5568.4 | 3729.9 | 652.3 | 712.2 | 802.5 | 956.2 | 1048.9 | 919.9 | 796.7 | 748.6 | 740.3 |
| 65° | 4742.4 | 3058.8 | 620.7 | 681.7 | 752.1 | 887.0 | 994.9 | 872.9 | 754.4 | 718.1 | 708.7 |
| 67.5° | 3316.9 | 2148.3 | 586.6 | 645.3 | 701.6 | 820.1 | 938.6 | 829.5 | 711.0 | 684.0 | 674.6 |
| 70° | 1621.5 | 1139.3 | 545.6 | 603.1 | 647.7 | 752.1 | 882.3 | 776.7 | 653.5 | 638.3 | 625.4 |
| 72.5° | 772.0 | 637.1 | 497.5 | 545.6 | 573.7 | 661.7 | 788.4 | 700.5 | 585.5 | 552.6 | 530.3 |
| 75° | 517.4 | 452.9 | 434.1 | 477.5 | 484.6 | 555.0 | 675.8 | 604.2 | 516.2 | 478.7 | 459.9 |
| 77.5° | 391.9 | 346.1 | 364.9 | 403.6 | 389.5 | 456.4 | 556.1 | 538.5 | 465.8 | 431.8 | 422.4 |
| 80° | 275.7 | 252.3 | 289.8 | 313.3 | 302.7 | 388.4 | 501.0 | 461.1 | 383.7 | 346.1 | 339.1 |
| 82.5° | 173.6 | 169.0 | 213.5 | 217.1 | 220.6 | 307.4 | 411.8 | 362.5 | 298.0 | 245.2 | 227.6 |
| 85° | 86.8 | 96.2 | 127.9 | 127.9 | 126.7 | 158.4 | 234.7 | 204.2 | 160.7 | 127.9 | 124.4 |
| 87.5° | 29.3 | 41.1 | 55.1 | 44.6 | 34.0 | 27.0 | 30.5 | 37.5 | 39.9 | 38.7 | 38.7 |
| 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)