

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: P643745

Luminaire Tested: GWS-SA6F-750-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-750-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51843 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

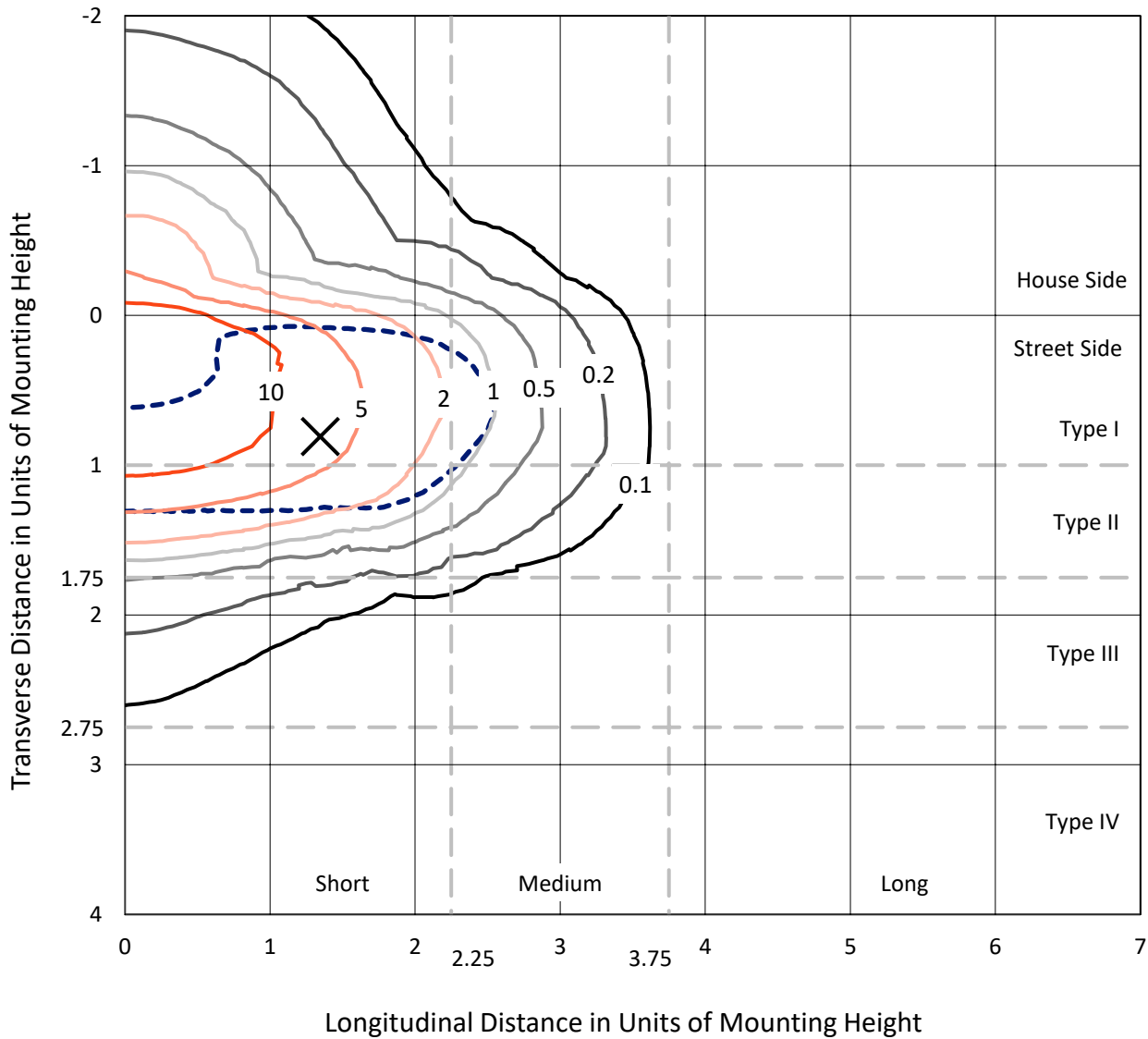
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

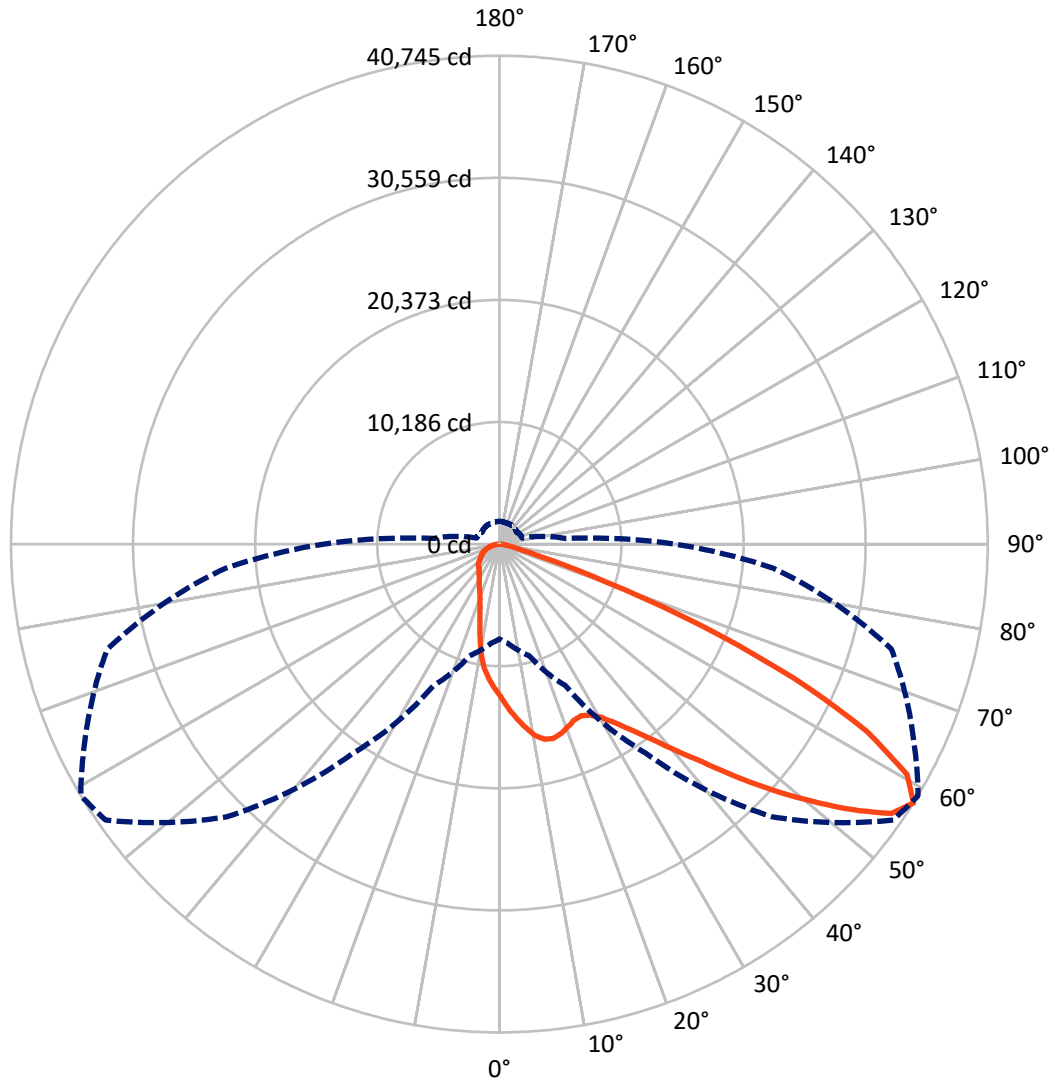
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8045.8 | 0.0 | 8045.8 |
| | % Fixture | 15.5 | 0.0 | 15.5 |
| Street Side | Lumens | 43797.2 | 0.0 | 43797.2 |
| | % Fixture | 84.5 | 0.0 | 84.5 |
| Total | Lumens | 51843.0 | 0.0 | 51843.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1181.7 | 2.3 |
| 10°-20° | 2994.4 | 5.8 |
| 20°-30° | 4853.9 | 9.4 |
| 30°-40° | 7808.1 | 15.1 |
| 40°-50° | 12125.2 | 23.4 |
| 50°-60° | 13060.5 | 25.2 |
| 60°-70° | 7579.8 | 14.6 |
| 70°-80° | 1978.8 | 3.8 |
| 80°-90° | 260.7 | 0.5 |
| 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° | 51843.0 | 100.0 |
| 0°-180° | 51843.0 | 100.0 |

Coefficient of Utilization



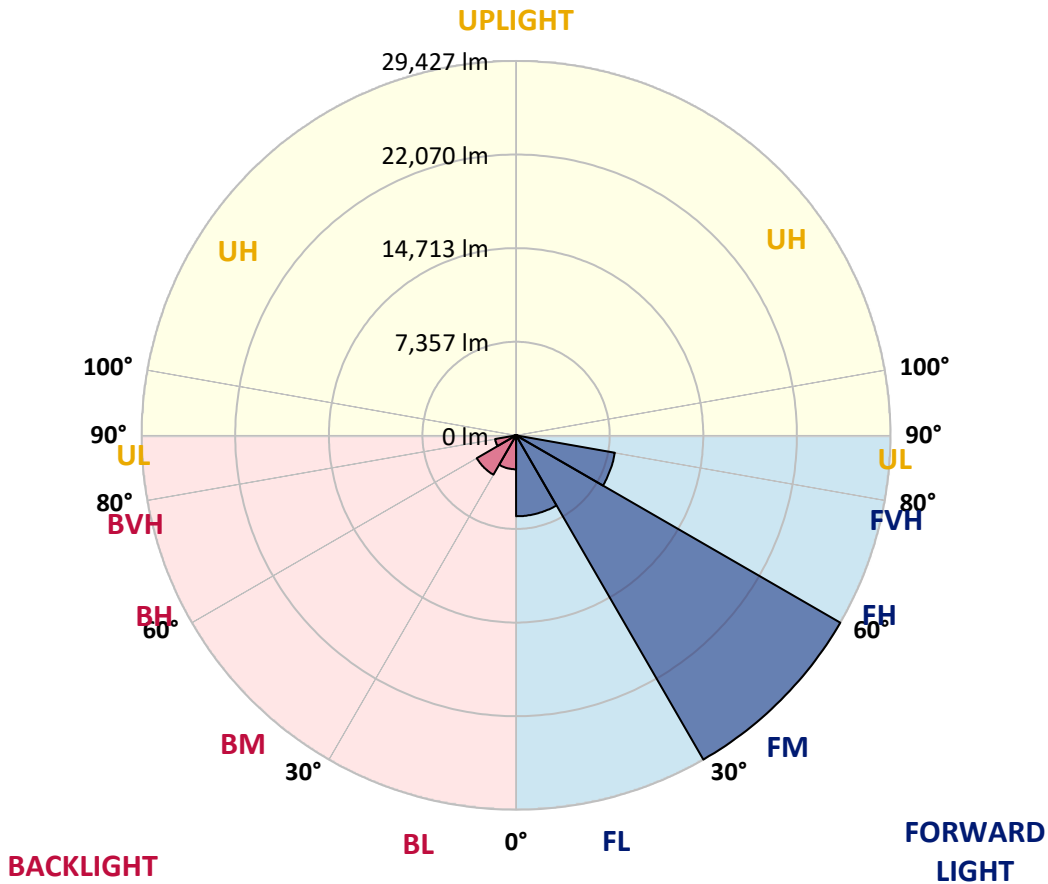
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 6360.7 | 12.3 | | | |
| FM (30°-60°) | 29426.7 | 56.8 | | | |
| FH (60°-80°) | 7885.1 | 15.2 | | | G4/12000 |
| FVH (80°-90°) | 124.8 | 0.2 | | | G2/225 |
| BL (0°-30°) | 2669.3 | 5.1 | B4/5000 | | |
| BM (30°-60°) | 3567.2 | 6.9 | B3/5000 | | |
| BH (60°-80°) | 1673.5 | 3.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 135.9 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12726.4 | 12726.4 | 12726.4 | 12726.4 | 12726.4 | 12726.4 | 12726.4 | 12726.4 | 12726.4 | 12726.4 | 12726.4 |
| 2.5° | 14434.5 | 14314.0 | 14398.0 | 14248.3 | 14186.3 | 14022.1 | 13810.4 | 13668.0 | 13449.1 | 13164.4 | 12916.2 |
| 5° | 15868.8 | 15784.8 | 15803.1 | 15642.5 | 15500.2 | 15226.4 | 14792.1 | 14551.3 | 14179.0 | 13606.0 | 13073.1 |
| 7.5° | 15825.0 | 15923.5 | 15978.3 | 16117.0 | 16157.1 | 16131.6 | 15741.1 | 15405.3 | 14996.5 | 14135.2 | 13332.3 |
| 10° | 14186.3 | 14372.4 | 14540.3 | 15014.8 | 15591.4 | 16321.4 | 16412.6 | 16211.9 | 15799.4 | 14810.4 | 13642.5 |
| 12.5° | 12401.6 | 12543.9 | 12693.6 | 13262.9 | 14146.1 | 15606.0 | 16595.1 | 16719.2 | 16554.9 | 15478.3 | 13992.9 |
| 15° | 11525.7 | 11591.4 | 11733.7 | 12109.6 | 12814.0 | 14434.5 | 16277.6 | 16821.4 | 17117.0 | 16186.3 | 14387.0 |
| 17.5° | 11489.2 | 11518.4 | 11587.7 | 11788.5 | 12277.5 | 13529.3 | 15704.6 | 16617.0 | 17558.6 | 16934.5 | 14846.9 |
| 20° | 12244.7 | 12168.0 | 12124.2 | 12120.6 | 12361.5 | 13226.4 | 15149.8 | 16288.5 | 17766.6 | 17700.9 | 15339.6 |
| 22.5° | 13292.1 | 13317.7 | 13222.8 | 12989.2 | 12960.0 | 13441.8 | 14872.4 | 15956.4 | 17828.7 | 18379.8 | 15795.8 |
| 25° | 14777.5 | 14905.3 | 14624.3 | 14179.0 | 13960.0 | 14065.9 | 15044.0 | 15854.2 | 17821.4 | 18945.5 | 16080.5 |
| 27.5° | 16511.1 | 16609.7 | 16325.0 | 15741.1 | 15288.5 | 15033.0 | 15554.9 | 16157.1 | 17883.4 | 19434.5 | 16252.0 |
| 30° | 18485.6 | 18518.5 | 18127.9 | 17514.8 | 16854.2 | 16306.8 | 16405.3 | 16781.2 | 18200.9 | 20076.9 | 16452.7 |
| 32.5° | 20898.0 | 21036.7 | 20445.5 | 19474.7 | 18551.3 | 17850.6 | 17547.6 | 17788.5 | 18887.1 | 20836.0 | 16763.0 |
| 35° | 23960.1 | 24007.6 | 23255.7 | 21865.2 | 20558.6 | 19587.8 | 18952.8 | 19080.5 | 19930.9 | 21898.1 | 17230.1 |
| 37.5° | 26847.0 | 26894.5 | 26095.2 | 24803.2 | 22934.6 | 21606.1 | 20686.4 | 20628.0 | 21266.7 | 23398.1 | 17992.9 |
| 40° | 28679.2 | 28814.2 | 28456.5 | 27646.3 | 25861.6 | 24069.6 | 22821.4 | 22620.7 | 23018.5 | 25233.9 | 19055.0 |
| 42.5° | 29664.6 | 29723.0 | 29715.7 | 29821.5 | 28759.4 | 26978.4 | 25230.2 | 24828.7 | 25095.2 | 27215.6 | 20128.0 |
| 45° | 29671.9 | 29817.9 | 30208.4 | 31226.6 | 31274.1 | 30164.6 | 28274.0 | 27646.3 | 27401.8 | 29212.0 | 21248.4 |
| 47.5° | 28343.4 | 28500.3 | 29573.3 | 31577.0 | 33055.1 | 33306.9 | 31920.1 | 30660.9 | 29631.7 | 30931.0 | 22168.1 |
| 50° | 24321.4 | 24715.6 | 26759.4 | 30303.3 | 33405.5 | 35825.2 | 35398.2 | 33690.2 | 31613.5 | 32259.5 | 22744.8 |
| 52.5° | 20828.7 | 20814.1 | 22073.2 | 26704.7 | 31942.0 | 36934.7 | 38763.2 | 36807.0 | 33573.4 | 33102.6 | 22890.8 |
| 55° | 15252.0 | 15335.9 | 16624.3 | 20423.6 | 28036.8 | 35861.7 | 40613.6 | 39675.6 | 35821.6 | 33551.5 | 22832.4 |
| 57.5° | 7908.8 | 8324.9 | 9646.1 | 13033.0 | 21303.2 | 32168.2 | 40120.9 | 40745.0 | 38106.3 | 33869.0 | 22909.0 |
| 60° | 3996.4 | 3916.1 | 4390.6 | 6222.7 | 12343.2 | 25124.4 | 37084.4 | 39073.4 | 38518.7 | 34117.2 | 22956.5 |
| 62.5° | 2667.9 | 2646.0 | 2514.6 | 2883.2 | 5043.9 | 14879.7 | 31613.5 | 34401.8 | 35653.7 | 33533.2 | 22350.6 |
| 65° | 2310.2 | 2266.4 | 2025.6 | 2011.0 | 2448.9 | 6171.6 | 23171.8 | 27044.1 | 29467.5 | 30938.3 | 20901.7 |
| 67.5° | 2080.3 | 2014.6 | 1770.1 | 1649.7 | 1759.1 | 2711.7 | 13058.5 | 18138.9 | 21759.4 | 26164.5 | 17726.5 |
| 70° | 1857.7 | 1824.8 | 1580.3 | 1405.1 | 1394.2 | 1653.3 | 4810.3 | 9361.4 | 13314.0 | 17850.6 | 12960.0 |
| 72.5° | 1664.3 | 1605.9 | 1397.8 | 1229.9 | 1146.0 | 1171.5 | 2087.6 | 3605.9 | 6890.6 | 11135.2 | 7751.9 |
| 75° | 1441.6 | 1397.8 | 1215.3 | 1047.5 | 945.3 | 857.7 | 1273.7 | 1667.9 | 3142.4 | 5292.0 | 3660.6 |
| 77.5° | 1113.2 | 1084.0 | 959.9 | 832.1 | 773.7 | 638.7 | 773.7 | 1051.1 | 1452.6 | 2230.0 | 1905.1 |
| 80° | 646.0 | 664.2 | 715.3 | 649.6 | 569.3 | 456.2 | 503.7 | 605.8 | 872.3 | 1208.0 | 1080.3 |
| 82.5° | 324.8 | 346.7 | 463.5 | 375.9 | 339.4 | 266.4 | 299.3 | 357.7 | 456.2 | 667.9 | 423.4 |
| 85° | 25.5 | 25.5 | 83.9 | 94.9 | 116.8 | 94.9 | 120.4 | 146.0 | 208.0 | 266.4 | 142.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.9 | 18.2 | 32.8 | 62.0 | 40.1 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12726.4 | 12726.4 | 12726.4 | 12726.4 | 12726.4 | 12726.4 | 12726.4 | 12726.4 | 12726.4 | 12726.4 | 12726.4 |
| 2.5° | 12748.3 | 12562.2 | 12339.6 | 12157.1 | 11876.0 | 11726.4 | 11536.6 | 11303.0 | 11208.2 | 11164.4 | 11138.8 |
| 5° | 12773.9 | 12445.4 | 11970.9 | 11533.0 | 11047.6 | 10664.4 | 10237.3 | 9792.1 | 9536.6 | 9474.6 | 9430.8 |
| 7.5° | 12868.8 | 12408.9 | 11653.4 | 10930.8 | 10029.3 | 9193.5 | 8379.7 | 7573.1 | 7160.7 | 7003.7 | 6989.1 |
| 10° | 13000.1 | 12394.3 | 11332.2 | 10131.5 | 8609.6 | 7288.4 | 6335.8 | 5704.4 | 5438.0 | 5350.4 | 5321.2 |
| 12.5° | 13164.4 | 12383.4 | 10908.9 | 9022.0 | 6970.9 | 5722.7 | 5178.9 | 5076.7 | 5113.2 | 5105.9 | 5105.9 |
| 15° | 13372.4 | 12397.9 | 10397.9 | 7766.5 | 5638.7 | 4967.2 | 4978.2 | 5098.6 | 5211.7 | 5230.0 | 5230.0 |
| 17.5° | 13598.7 | 12383.4 | 9657.0 | 6507.4 | 4839.5 | 4788.4 | 4956.3 | 5124.1 | 5226.3 | 5240.9 | 5240.9 |
| 20° | 13843.2 | 12314.0 | 8722.7 | 5321.2 | 4489.1 | 4675.2 | 4857.7 | 4989.1 | 5051.2 | 5065.8 | 5065.8 |
| 22.5° | 13989.2 | 12116.9 | 7708.1 | 4503.7 | 4266.5 | 4496.4 | 4616.8 | 4751.9 | 4759.2 | 4642.4 | 4638.7 |
| 25° | 13967.3 | 11748.3 | 6551.2 | 3978.1 | 4029.2 | 4230.0 | 4383.3 | 4288.4 | 4171.6 | 4105.9 | 4094.9 |
| 27.5° | 13828.6 | 11193.6 | 5372.3 | 3580.3 | 3748.2 | 3974.5 | 3927.1 | 3846.8 | 3817.6 | 3744.6 | 3737.3 |
| 30° | 13653.4 | 10511.1 | 4313.9 | 3270.1 | 3456.2 | 3664.3 | 3591.3 | 3584.0 | 3554.8 | 3474.5 | 3474.5 |
| 32.5° | 13485.6 | 9806.7 | 3514.6 | 3040.2 | 3270.1 | 3284.7 | 3386.9 | 3394.2 | 3379.6 | 3240.9 | 3226.3 |
| 35° | 13438.1 | 9102.3 | 2974.5 | 2857.7 | 3087.6 | 3080.3 | 3226.3 | 3222.7 | 2970.8 | 2777.4 | 2773.8 |
| 37.5° | 13580.4 | 8387.0 | 2653.3 | 2708.1 | 2835.8 | 2930.7 | 3047.5 | 2835.8 | 2751.9 | 2635.1 | 2627.8 |
| 40° | 13883.4 | 7726.4 | 2489.1 | 2620.5 | 2675.2 | 2813.9 | 2631.4 | 2646.0 | 2624.1 | 2536.5 | 2525.6 |
| 42.5° | 14284.8 | 7164.3 | 2397.8 | 2591.3 | 2584.0 | 2620.5 | 2419.7 | 2478.1 | 2511.0 | 2445.3 | 2434.3 |
| 45° | 14671.7 | 6675.3 | 2350.4 | 2481.8 | 2518.3 | 2306.6 | 2266.4 | 2321.2 | 2372.3 | 2346.7 | 2335.8 |
| 47.5° | 14956.4 | 6251.9 | 2324.8 | 2332.1 | 2434.3 | 2200.8 | 2135.1 | 2160.6 | 2222.7 | 2233.6 | 2230.0 |
| 50° | 15044.0 | 5890.6 | 2295.6 | 2208.1 | 2186.2 | 2094.9 | 2043.8 | 2036.5 | 2109.5 | 2160.6 | 2167.9 |
| 52.5° | 14876.1 | 5569.4 | 2219.0 | 2098.6 | 1992.7 | 2007.3 | 1989.1 | 1952.6 | 2025.6 | 2094.9 | 2102.2 |
| 55° | 14627.9 | 5386.9 | 2098.6 | 1992.7 | 1868.6 | 1927.0 | 1934.3 | 1901.5 | 1948.9 | 1996.4 | 1996.4 |
| 57.5° | 14646.1 | 5492.8 | 1981.8 | 1894.2 | 1759.1 | 1835.8 | 1875.9 | 1861.3 | 1861.3 | 1897.8 | 1901.5 |
| 60° | 14766.6 | 5646.0 | 1905.1 | 1770.1 | 1649.7 | 1729.9 | 1821.2 | 1806.6 | 1773.7 | 1821.2 | 1821.2 |
| 62.5° | 14419.9 | 5441.7 | 1854.0 | 1649.7 | 1532.9 | 1627.8 | 1737.2 | 1729.9 | 1693.4 | 1770.1 | 1777.4 |
| 65° | 13398.0 | 4894.2 | 1795.6 | 1500.0 | 1416.1 | 1525.6 | 1620.5 | 1646.0 | 1613.2 | 1715.3 | 1733.6 |
| 67.5° | 11230.1 | 4116.8 | 1682.5 | 1357.7 | 1299.3 | 1401.5 | 1492.7 | 1529.2 | 1503.7 | 1624.1 | 1638.7 |
| 70° | 8372.4 | 3332.2 | 1503.7 | 1200.7 | 1156.9 | 1248.2 | 1332.1 | 1346.7 | 1350.4 | 1492.7 | 1507.3 |
| 72.5° | 5339.5 | 2591.3 | 1266.4 | 1025.6 | 992.7 | 1062.1 | 1124.1 | 1182.5 | 1208.0 | 1343.1 | 1339.4 |
| 75° | 2978.1 | 1927.0 | 1018.3 | 868.6 | 810.2 | 865.0 | 938.0 | 1007.3 | 1080.3 | 1277.4 | 1299.3 |
| 77.5° | 1715.3 | 1354.0 | 806.6 | 697.1 | 627.7 | 686.1 | 748.2 | 846.7 | 1065.7 | 1237.2 | 1215.3 |
| 80° | 967.2 | 879.6 | 609.5 | 511.0 | 467.2 | 511.0 | 558.4 | 744.5 | 839.4 | 912.4 | 923.4 |
| 82.5° | 452.6 | 492.7 | 416.1 | 313.9 | 313.9 | 343.1 | 386.9 | 576.6 | 635.0 | 518.3 | 452.6 |
| 85° | 164.2 | 222.6 | 204.4 | 160.6 | 142.3 | 138.7 | 240.9 | 328.5 | 204.4 | 182.5 | 156.9 |
| 87.5° | 43.8 | 62.0 | 58.4 | 40.1 | 21.9 | 18.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)