

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: P637748

Luminaire Tested: GWS-SA4D-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-740-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22216.4 lumens
Efficiency: N/A
Efficacy: 137.1 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): 162.1
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

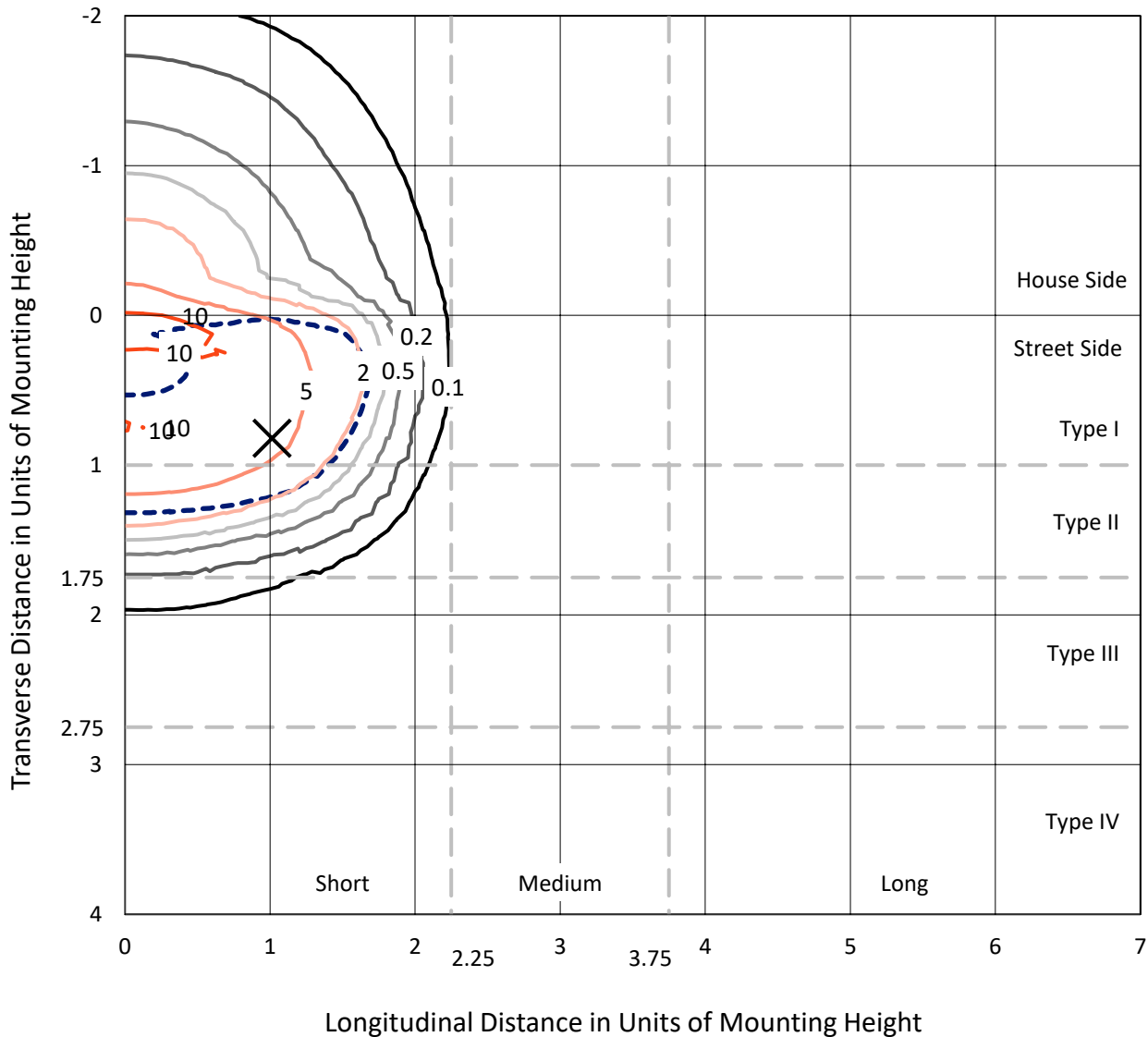


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Iso-Footcandle Lines of Horizontal Illumination

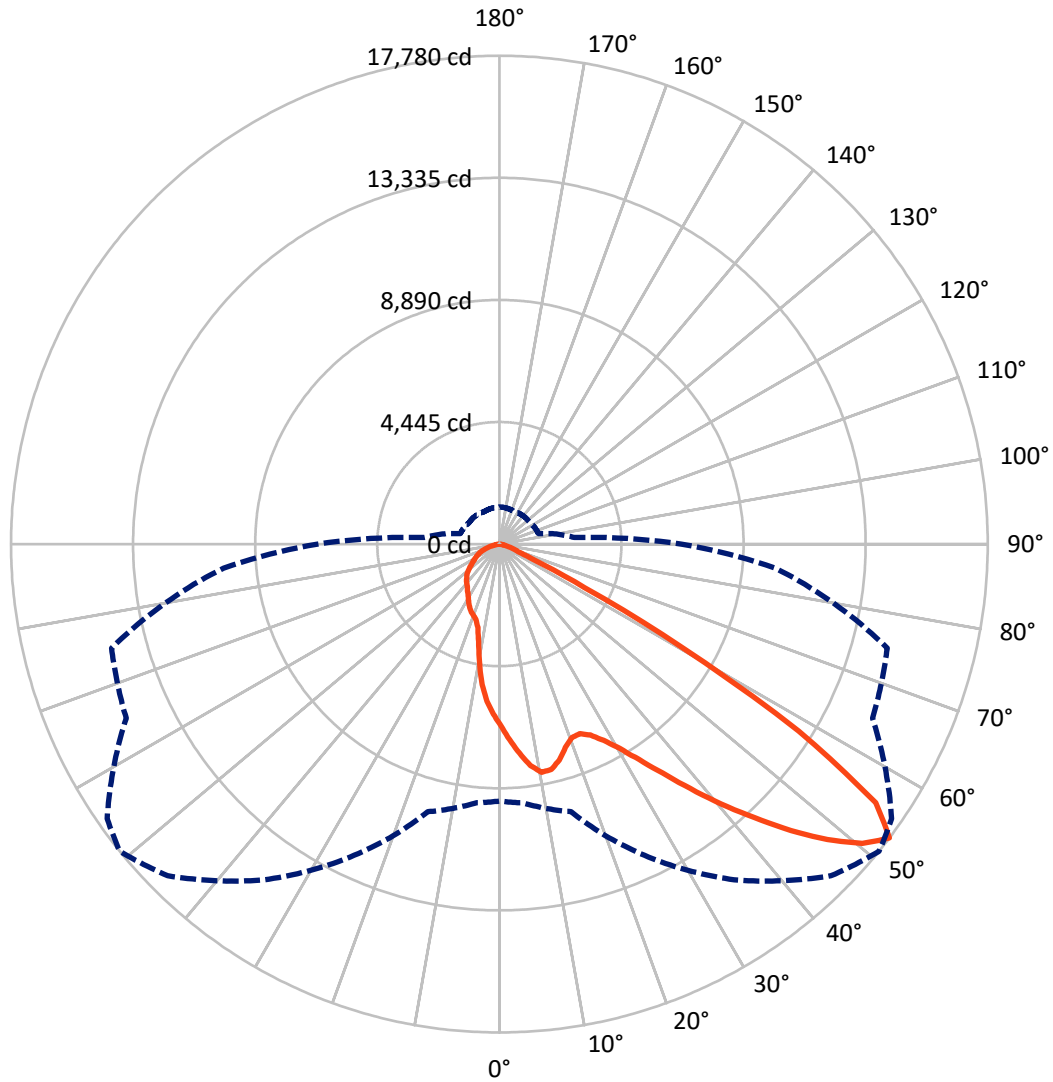
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4328.7 | 0.0 | 4328.7 |
| | % Fixture | 19.5 | 0.0 | 19.5 |
| Street Side | Lumens | 17887.7 | 0.0 | 17887.7 |
| | % Fixture | 80.5 | 0.0 | 80.5 |
| Total | Lumens | 22216.4 | 0.0 | 22216.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 617.3 | 2.8 |
| 10°-20° | 1603.9 | 7.2 |
| 20°-30° | 2607.8 | 11.7 |
| 30°-40° | 4132.8 | 18.6 |
| 40°-50° | 6233.1 | 28.1 |
| 50°-60° | 5392.2 | 24.3 |
| 60°-70° | 1222.5 | 5.5 |
| 70°-80° | 360.4 | 1.6 |
| 80°-90° | 46.4 | 0.2 |
| 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° | 22216.4 | 100.0 |
| 0°-180° | 22216.4 | 100.0 |

Coefficient of Utilization



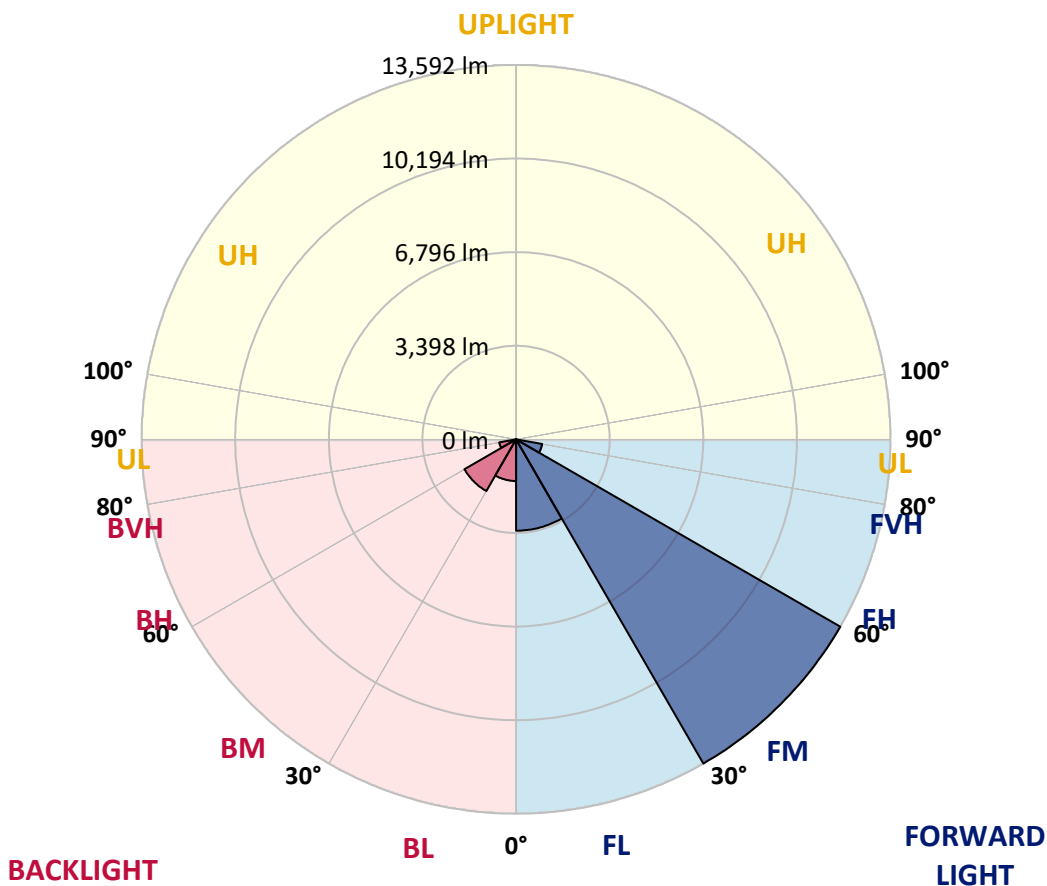
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3315.9 | 14.9 | | | |
| FM (30°-60°) | 13592.3 | 61.2 | | | |
| FH (60°-80°) | 962.0 | 4.3 | | | G1/1800 |
| FVH (80°-90°) | 17.5 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1513.1 | 6.8 | B3/2500 | | |
| BM (30°-60°) | 2165.8 | 9.7 | B2/2500 | | |
| BH (60°-80°) | 620.8 | 2.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 28.9 | 0.1 | | | 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° | 51° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6614.9 | 6614.9 | 6614.9 | 6614.9 | 6614.9 | 6614.9 | 6614.9 | 6614.9 | 6614.9 | 6614.9 | 6614.9 |
| 2.5° | 7371.6 | 7413.7 | 7348.8 | 7324.2 | 7283.8 | 7213.6 | 7132.8 | 7110.0 | 6936.2 | 6822.1 | 6693.9 |
| 5° | 8112.4 | 8135.2 | 8082.6 | 8029.9 | 7929.8 | 7805.2 | 7649.0 | 7615.6 | 7299.6 | 7038.0 | 6765.9 |
| 7.5° | 8277.4 | 8268.7 | 8314.3 | 8344.2 | 8331.9 | 8282.7 | 8144.0 | 8079.1 | 7701.6 | 7287.3 | 6885.3 |
| 10° | 7624.4 | 7575.2 | 7743.8 | 7943.9 | 8184.4 | 8461.8 | 8446.0 | 8440.7 | 8112.4 | 7622.6 | 7038.0 |
| 12.5° | 6758.9 | 6734.3 | 6871.2 | 7122.3 | 7577.0 | 8191.4 | 8421.4 | 8600.5 | 8482.8 | 7942.1 | 7208.3 |
| 15° | 6263.8 | 6255.0 | 6348.1 | 6528.9 | 6890.6 | 7666.5 | 8158.1 | 8512.7 | 8800.6 | 8284.5 | 7389.1 |
| 17.5° | 6174.3 | 6179.6 | 6211.2 | 6314.7 | 6574.6 | 7213.6 | 7782.4 | 8277.4 | 9048.1 | 8660.2 | 7615.6 |
| 20° | 6435.9 | 6471.0 | 6416.6 | 6432.4 | 6572.8 | 7050.3 | 7526.1 | 8040.4 | 9206.1 | 9037.6 | 7859.6 |
| 22.5° | 7017.0 | 7004.7 | 6885.3 | 6815.1 | 6816.8 | 7150.4 | 7498.0 | 7929.8 | 9309.7 | 9404.5 | 8080.8 |
| 25° | 7675.3 | 7661.2 | 7519.0 | 7362.8 | 7264.5 | 7422.5 | 7699.9 | 8047.5 | 9402.8 | 9739.8 | 8258.1 |
| 27.5° | 8453.0 | 8409.1 | 8251.1 | 8051.0 | 7833.3 | 7901.8 | 8089.6 | 8365.2 | 9546.7 | 10069.9 | 8375.8 |
| 30° | 9206.1 | 9257.0 | 9030.6 | 8793.6 | 8563.6 | 8521.5 | 8630.3 | 8879.6 | 9839.9 | 10456.1 | 8516.2 |
| 32.5° | 10205.0 | 10187.5 | 9936.4 | 9627.5 | 9299.2 | 9267.6 | 9353.6 | 9581.8 | 10366.6 | 10989.8 | 8730.4 |
| 35° | 11414.6 | 11418.1 | 11061.8 | 10643.9 | 10177.0 | 10092.7 | 10236.6 | 10457.8 | 11151.3 | 11713.1 | 9069.2 |
| 37.5° | 12671.6 | 12666.3 | 12355.6 | 11881.6 | 11244.3 | 11125.0 | 11290.0 | 11455.0 | 12132.6 | 12697.9 | 9595.9 |
| 40° | 13552.9 | 13588.0 | 13442.3 | 13193.0 | 12589.1 | 12297.7 | 12443.4 | 12557.5 | 13200.0 | 13856.6 | 10289.3 |
| 42.5° | 14053.2 | 14105.9 | 14137.5 | 14286.7 | 13968.9 | 13658.2 | 13605.6 | 13665.2 | 14153.3 | 14932.7 | 10940.6 |
| 45° | 14160.3 | 14230.5 | 14460.5 | 15013.5 | 15136.4 | 15048.6 | 14876.6 | 14732.6 | 14864.3 | 15696.4 | 11367.2 |
| 47.5° | 13688.1 | 13811.0 | 14302.5 | 15269.8 | 15987.8 | 16263.5 | 16072.1 | 15852.7 | 15275.1 | 15893.0 | 11323.3 |
| 50° | 11816.6 | 11960.6 | 13068.4 | 14746.7 | 16109.0 | 17113.1 | 17130.7 | 16805.9 | 15225.9 | 15326.0 | 10772.1 |
| 52.5° | 9355.4 | 9453.7 | 10087.4 | 12501.3 | 14920.5 | 17078.0 | 17780.3 | 17432.7 | 14988.9 | 14616.7 | 10082.2 |
| 55° | 5591.4 | 5749.4 | 6341.1 | 8247.6 | 11623.5 | 15136.4 | 16632.1 | 16800.7 | 14873.1 | 14021.6 | 9611.7 |
| 57.5° | 1887.2 | 1964.5 | 2529.8 | 3642.8 | 6850.2 | 11082.8 | 12850.7 | 13535.3 | 13502.0 | 13112.2 | 8693.5 |
| 60° | 898.8 | 916.4 | 1030.5 | 1381.6 | 2742.2 | 5791.6 | 7606.8 | 8396.8 | 9116.6 | 9188.6 | 5408.9 |
| 62.5° | 684.7 | 695.2 | 753.1 | 828.6 | 1102.5 | 2440.2 | 3486.5 | 4090.4 | 4369.6 | 3749.9 | 1969.7 |
| 65° | 572.3 | 581.1 | 625.0 | 672.4 | 749.6 | 1056.8 | 1337.7 | 1543.1 | 1390.4 | 1083.2 | 939.2 |
| 67.5° | 477.5 | 484.5 | 517.9 | 568.8 | 621.5 | 707.5 | 742.6 | 763.7 | 800.5 | 898.8 | 863.7 |
| 70° | 373.9 | 381.0 | 416.1 | 460.0 | 510.9 | 531.9 | 565.3 | 586.4 | 660.1 | 786.5 | 783.0 |
| 72.5° | 287.9 | 296.7 | 316.0 | 344.1 | 386.2 | 407.3 | 444.2 | 468.7 | 510.9 | 612.7 | 654.8 |
| 75° | 210.7 | 215.9 | 233.5 | 242.3 | 247.5 | 242.3 | 279.1 | 307.2 | 363.4 | 402.0 | 412.6 |
| 77.5° | 86.0 | 96.6 | 93.0 | 93.0 | 110.6 | 133.4 | 152.7 | 170.3 | 208.9 | 231.7 | 233.5 |
| 80° | 35.1 | 38.6 | 45.6 | 50.9 | 61.4 | 79.0 | 91.3 | 98.3 | 115.9 | 129.9 | 140.4 |
| 82.5° | 21.1 | 22.8 | 26.3 | 28.1 | 35.1 | 45.6 | 52.7 | 57.9 | 72.0 | 86.0 | 91.3 |
| 85° | 10.5 | 10.5 | 12.3 | 14.0 | 17.6 | 21.1 | 24.6 | 28.1 | 36.9 | 45.6 | 50.9 |
| 87.5° | 1.8 | 1.8 | 1.8 | 3.5 | 5.3 | 7.0 | 8.8 | 10.5 | 12.3 | 14.0 | 17.6 |
| 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° | 6614.9 | 6614.9 | 6614.9 | 6614.9 | 6614.9 | 6614.9 | 6614.9 | 6614.9 | 6614.9 | 6614.9 | 6614.9 |
| 2.5° | 6618.4 | 6523.6 | 6413.0 | 6325.3 | 6223.4 | 6148.0 | 6040.9 | 5974.2 | 5911.0 | 5858.3 | 5819.7 |
| 5° | 6625.5 | 6465.7 | 6235.7 | 6032.1 | 5821.4 | 5621.3 | 5415.9 | 5249.1 | 5099.9 | 4975.2 | 4964.7 |
| 7.5° | 6665.8 | 6435.9 | 6076.0 | 5719.6 | 5308.8 | 4912.0 | 4515.3 | 4192.3 | 3946.5 | 3818.3 | 3792.0 |
| 10° | 6734.3 | 6432.4 | 5912.7 | 5343.9 | 4643.4 | 4004.4 | 3533.9 | 3288.2 | 3146.0 | 3095.0 | 3077.5 |
| 12.5° | 6806.3 | 6423.6 | 5703.8 | 4813.7 | 3841.2 | 3281.1 | 3023.1 | 2993.2 | 3019.6 | 3023.1 | 3021.3 |
| 15° | 6894.1 | 6418.3 | 5440.5 | 4192.3 | 3254.8 | 2945.8 | 2963.4 | 3026.6 | 3088.0 | 3102.1 | 3102.1 |
| 17.5° | 7001.2 | 6406.0 | 5082.3 | 3584.8 | 2887.9 | 2880.9 | 2973.9 | 3058.2 | 3116.1 | 3126.6 | 3126.6 |
| 20° | 7113.5 | 6374.4 | 4641.7 | 3089.8 | 2738.7 | 2840.5 | 2940.6 | 3005.5 | 3045.9 | 3059.9 | 3061.7 |
| 22.5° | 7190.8 | 6290.2 | 4134.3 | 2722.9 | 2645.6 | 2763.2 | 2835.2 | 2901.9 | 2901.9 | 2866.8 | 2856.3 |
| 25° | 7206.6 | 6109.3 | 3584.8 | 2471.8 | 2535.0 | 2643.9 | 2717.6 | 2679.0 | 2607.0 | 2578.9 | 2577.2 |
| 27.5° | 7148.6 | 5846.0 | 3042.4 | 2292.8 | 2401.6 | 2510.4 | 2498.2 | 2442.0 | 2410.4 | 2382.3 | 2392.8 |
| 30° | 7078.4 | 5530.0 | 2571.9 | 2145.3 | 2247.1 | 2354.2 | 2312.1 | 2292.8 | 2269.9 | 2238.3 | 2245.4 |
| 32.5° | 7031.0 | 5177.1 | 2210.2 | 2031.2 | 2143.5 | 2161.1 | 2190.9 | 2189.2 | 2168.1 | 2108.4 | 2104.9 |
| 35° | 7045.0 | 4820.8 | 1968.0 | 1938.1 | 2057.5 | 2050.5 | 2106.7 | 2096.1 | 1950.4 | 1867.9 | 1862.6 |
| 37.5° | 7157.4 | 4478.4 | 1825.8 | 1864.4 | 1920.6 | 1964.5 | 2013.6 | 1887.2 | 1836.3 | 1783.6 | 1787.2 |
| 40° | 7371.6 | 4160.7 | 1748.5 | 1824.0 | 1838.1 | 1903.0 | 1788.9 | 1787.2 | 1764.3 | 1716.9 | 1715.2 |
| 42.5° | 7613.8 | 3892.1 | 1695.9 | 1804.7 | 1785.4 | 1797.7 | 1676.6 | 1690.6 | 1688.8 | 1659.0 | 1650.2 |
| 45° | 7761.3 | 3644.5 | 1653.7 | 1732.7 | 1738.0 | 1615.1 | 1578.2 | 1594.0 | 1602.8 | 1587.0 | 1585.3 |
| 47.5° | 7608.6 | 3360.1 | 1609.8 | 1622.1 | 1667.8 | 1532.6 | 1487.0 | 1488.7 | 1504.5 | 1506.3 | 1499.2 |
| 50° | 7180.2 | 3042.4 | 1557.2 | 1527.3 | 1497.5 | 1446.6 | 1404.4 | 1395.7 | 1411.5 | 1427.3 | 1432.5 |
| 52.5° | 6627.2 | 2738.7 | 1469.4 | 1423.8 | 1353.5 | 1353.5 | 1334.2 | 1306.1 | 1327.2 | 1348.3 | 1355.3 |
| 55° | 6221.7 | 2514.0 | 1344.8 | 1293.8 | 1216.6 | 1242.9 | 1239.4 | 1214.8 | 1242.9 | 1258.7 | 1264.0 |
| 57.5° | 5391.3 | 2020.6 | 1183.2 | 1167.4 | 1102.5 | 1134.1 | 1141.1 | 1109.5 | 1095.5 | 1099.0 | 1104.2 |
| 60° | 3200.4 | 1304.4 | 1067.4 | 1065.6 | 1007.7 | 1044.6 | 1065.6 | 1034.0 | 991.9 | 997.2 | 1004.2 |
| 62.5° | 1436.0 | 997.2 | 921.7 | 914.6 | 912.9 | 960.3 | 983.1 | 953.3 | 893.6 | 898.8 | 905.9 |
| 65° | 904.1 | 862.0 | 800.5 | 800.5 | 828.6 | 869.0 | 886.6 | 862.0 | 793.5 | 784.7 | 791.8 |
| 67.5° | 839.2 | 802.3 | 739.1 | 726.8 | 740.8 | 774.2 | 776.0 | 728.6 | 688.2 | 681.2 | 681.2 |
| 70° | 753.1 | 725.0 | 663.6 | 639.0 | 633.8 | 632.0 | 626.7 | 614.4 | 588.1 | 581.1 | 584.6 |
| 72.5° | 623.2 | 603.9 | 565.3 | 539.0 | 524.9 | 523.2 | 502.1 | 491.6 | 468.7 | 465.2 | 463.5 |
| 75° | 412.6 | 417.8 | 417.8 | 414.3 | 402.0 | 396.8 | 373.9 | 363.4 | 337.1 | 326.5 | 324.8 |
| 77.5° | 244.0 | 249.3 | 256.3 | 258.1 | 256.3 | 256.3 | 235.2 | 223.0 | 196.6 | 182.6 | 179.1 |
| 80° | 149.2 | 152.7 | 156.2 | 161.5 | 154.5 | 149.2 | 129.9 | 117.6 | 105.3 | 96.6 | 94.8 |
| 82.5° | 96.6 | 100.1 | 101.8 | 105.3 | 101.8 | 94.8 | 79.0 | 72.0 | 63.2 | 56.2 | 54.4 |
| 85° | 54.4 | 56.2 | 59.7 | 59.7 | 54.4 | 49.2 | 40.4 | 35.1 | 29.8 | 26.3 | 26.3 |
| 87.5° | 19.3 | 19.3 | 19.3 | 21.1 | 17.6 | 15.8 | 10.5 | 7.0 | 5.3 | 5.3 | 5.3 |
| 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)