

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: P640788

Luminaire Tested: GWS-SA5E-750-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-750-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36879.9 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 269.6
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

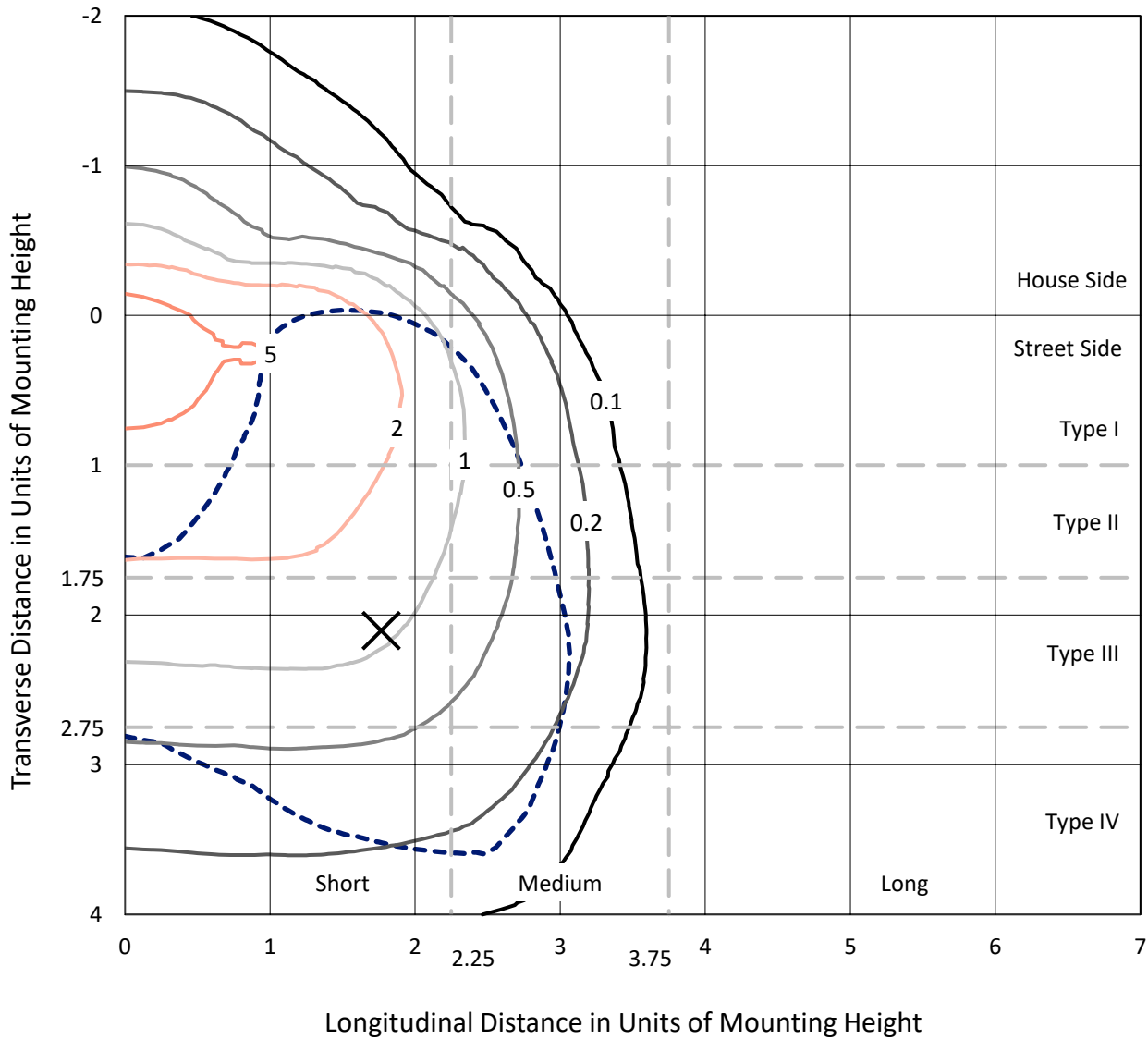


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Iso-Footcandle Lines of Horizontal Illumination

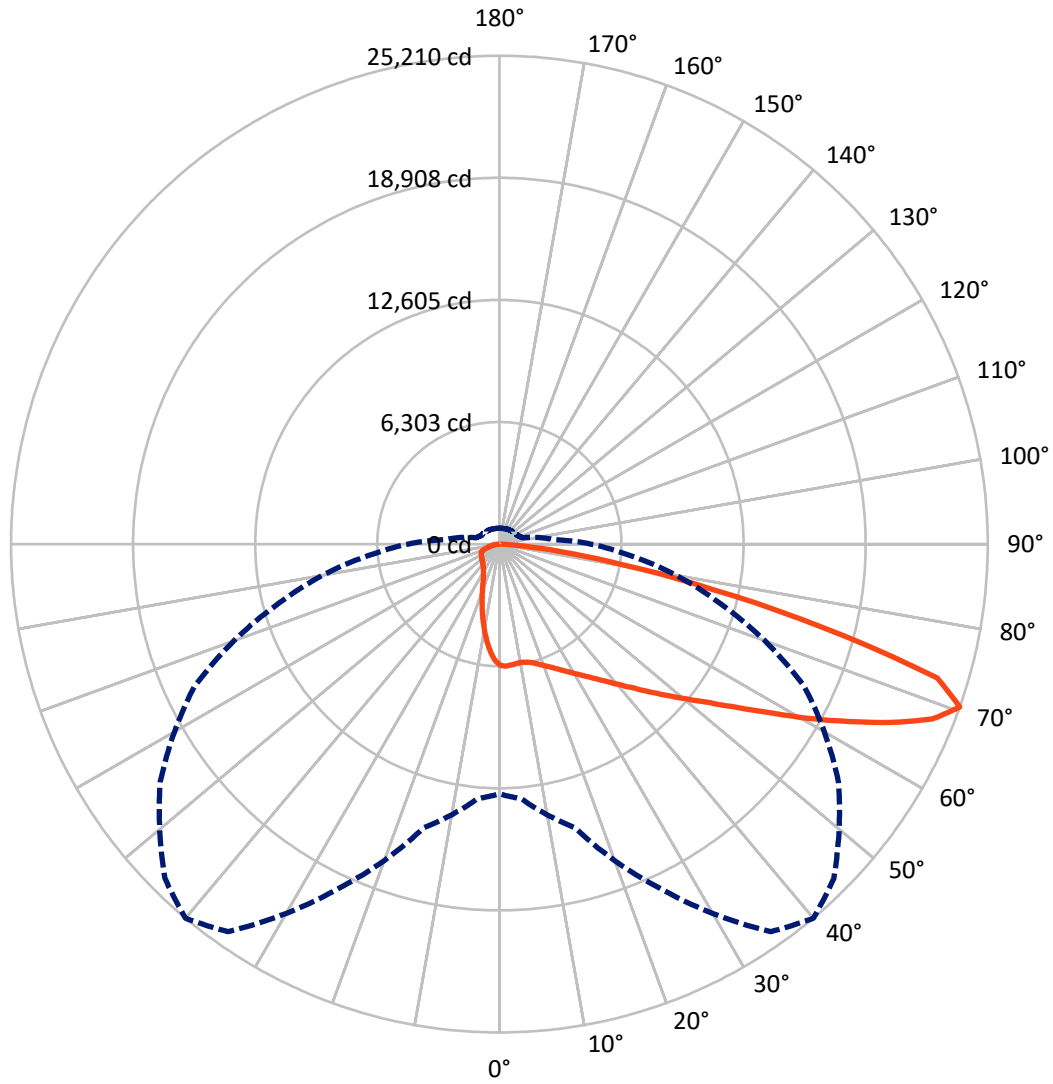
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5680.4 | 0.0 | 5680.4 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 31199.5 | 0.0 | 31199.5 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 36879.9 | 0.0 | 36879.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 553.2 | 1.5 |
| 10°-20° | 1442.1 | 3.9 |
| 20°-30° | 2264.3 | 6.1 |
| 30°-40° | 3404.5 | 9.2 |
| 40°-50° | 5254.9 | 14.2 |
| 50°-60° | 7804.0 | 21.2 |
| 60°-70° | 9836.8 | 26.7 |
| 70°-80° | 5688.6 | 15.4 |
| 80°-90° | 631.3 | 1.7 |
| 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° | 36879.9 | 100.0 |
| 0°-180° | 36879.9 | 100.0 |

Coefficient of Utilization



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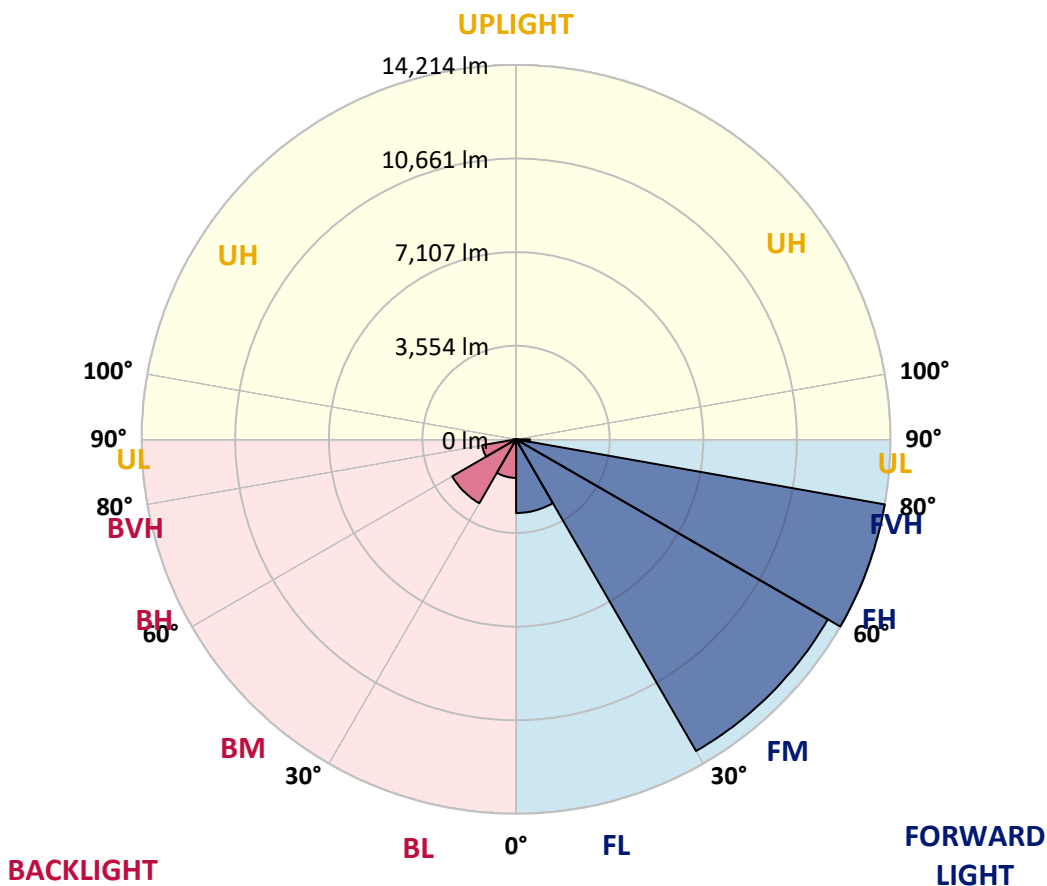
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2795.8 | 7.6 | | | |
| FM (30°-60°) | 13663.5 | 37.0 | | | |
| FH (60°-80°) | 14214.4 | 38.5 | | | G5 |
| FVH (80°-90°) | 525.8 | 1.4 | | | G4/750 |
| BL (0°-30°) | 1463.9 | 4.0 | B3/2500 | | |
| BM (30°-60°) | 2799.9 | 7.6 | B3/5000 | | |
| BH (60°-80°) | 1311.0 | 3.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 105.5 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6262.6 | 6262.6 | 6262.6 | 6262.6 | 6262.6 | 6262.6 | 6262.6 | 6262.6 | 6262.6 | 6262.6 | 6262.6 |
| 2.5° | 6301.2 | 6312.2 | 6320.4 | 6331.5 | 6325.9 | 6309.4 | 6323.2 | 6323.2 | 6292.9 | 6259.9 | 6229.6 |
| 5° | 6309.4 | 6323.2 | 6320.4 | 6317.7 | 6295.7 | 6268.1 | 6268.1 | 6251.6 | 6199.3 | 6147.0 | 6097.5 |
| 7.5° | 6292.9 | 6290.2 | 6287.4 | 6279.1 | 6254.4 | 6224.1 | 6218.6 | 6185.6 | 6116.7 | 6045.2 | 5973.6 |
| 10° | 6218.6 | 6215.8 | 6224.1 | 6243.4 | 6237.9 | 6210.3 | 6210.3 | 6180.0 | 6100.2 | 6012.1 | 5918.5 |
| 12.5° | 6158.0 | 6158.0 | 6191.1 | 6243.4 | 6262.6 | 6251.6 | 6254.4 | 6232.3 | 6141.5 | 6036.9 | 5926.8 |
| 15° | 6166.3 | 6169.0 | 6240.6 | 6325.9 | 6361.7 | 6353.5 | 6356.2 | 6331.5 | 6229.6 | 6125.0 | 5976.3 |
| 17.5° | 6221.3 | 6235.1 | 6359.0 | 6477.3 | 6524.1 | 6513.1 | 6493.9 | 6452.6 | 6337.0 | 6218.6 | 6036.9 |
| 20° | 6337.0 | 6359.0 | 6518.6 | 6667.3 | 6722.3 | 6697.6 | 6664.5 | 6582.0 | 6455.3 | 6325.9 | 6103.0 |
| 22.5° | 6565.4 | 6579.2 | 6755.4 | 6901.3 | 6945.3 | 6915.0 | 6849.0 | 6730.6 | 6584.7 | 6449.8 | 6182.8 |
| 25° | 6887.5 | 6904.0 | 7072.0 | 7206.8 | 7195.8 | 7160.0 | 7069.2 | 6923.3 | 6749.9 | 6606.7 | 6298.4 |
| 27.5° | 7270.2 | 7297.7 | 7462.9 | 7570.2 | 7498.6 | 7446.3 | 7344.5 | 7168.3 | 6972.9 | 6843.5 | 6474.6 |
| 30° | 7688.6 | 7699.6 | 7840.0 | 7947.3 | 7837.2 | 7765.7 | 7641.8 | 7451.8 | 7275.7 | 7179.3 | 6738.9 |
| 32.5° | 8093.2 | 8104.3 | 8225.4 | 8285.9 | 8170.3 | 8118.0 | 8010.7 | 7809.7 | 7685.8 | 7633.5 | 7132.5 |
| 35° | 8519.9 | 8517.2 | 8616.3 | 8668.6 | 8550.2 | 8528.2 | 8418.1 | 8263.9 | 8241.9 | 8310.7 | 7707.9 |
| 37.5° | 8946.6 | 8921.8 | 8974.1 | 9043.0 | 8976.9 | 8998.9 | 8927.3 | 8875.0 | 8960.4 | 9139.3 | 8473.1 |
| 40° | 9288.0 | 9288.0 | 9343.0 | 9428.4 | 9450.4 | 9546.7 | 9505.4 | 9574.3 | 9849.5 | 10276.2 | 9420.1 |
| 42.5° | 9590.8 | 9593.5 | 9709.1 | 9841.3 | 10000.9 | 10149.6 | 10182.6 | 10361.6 | 10931.4 | 11600.3 | 10609.3 |
| 45° | 9907.3 | 9910.1 | 10067.0 | 10259.7 | 10598.3 | 10881.8 | 10947.9 | 11349.8 | 12164.6 | 12979.5 | 11900.4 |
| 47.5° | 10273.5 | 10243.2 | 10460.7 | 10782.7 | 11264.5 | 11671.9 | 11842.6 | 12412.4 | 13441.9 | 14444.0 | 13117.1 |
| 50° | 10686.4 | 10623.1 | 10865.3 | 11421.4 | 12016.0 | 12574.8 | 12861.1 | 13513.5 | 14812.8 | 15795.6 | 14262.3 |
| 52.5° | 11151.6 | 11115.8 | 11369.1 | 12046.3 | 12954.7 | 13598.9 | 13987.0 | 14843.1 | 16145.2 | 17141.7 | 15170.7 |
| 55° | 11729.7 | 11644.4 | 12010.5 | 12872.1 | 14055.8 | 14876.2 | 15335.9 | 16159.0 | 17601.4 | 18364.0 | 15864.4 |
| 57.5° | 12362.8 | 12269.2 | 12759.2 | 13904.4 | 15487.3 | 16387.4 | 16962.8 | 17640.0 | 18972.3 | 19299.9 | 16271.8 |
| 60° | 13045.5 | 13015.3 | 13596.1 | 15115.6 | 17194.0 | 18240.1 | 18655.8 | 19269.6 | 20164.3 | 19842.2 | 16170.0 |
| 62.5° | 13670.4 | 13659.4 | 14504.5 | 16428.7 | 19002.6 | 20153.3 | 20483.6 | 20646.0 | 21023.2 | 19806.4 | 15360.6 |
| 65° | 14328.3 | 14421.9 | 15564.4 | 17951.0 | 21075.5 | 22204.1 | 22341.8 | 21928.8 | 21312.2 | 18867.7 | 13703.5 |
| 67.5° | 14410.9 | 14592.6 | 16230.5 | 19377.0 | 23041.0 | 24106.3 | 23996.2 | 22416.1 | 20458.8 | 16255.3 | 10741.4 |
| 70° | 12888.6 | 13205.2 | 15168.0 | 19594.5 | 24425.6 | 25210.2 | 24414.6 | 21367.3 | 17361.9 | 11776.5 | 6755.4 |
| 72.5° | 10769.0 | 11041.5 | 12775.8 | 16709.5 | 22639.1 | 23638.3 | 22562.0 | 18085.9 | 12269.2 | 6755.4 | 3441.0 |
| 75° | 8382.3 | 8698.9 | 10298.2 | 13282.3 | 16949.0 | 17348.2 | 16808.6 | 12613.3 | 6744.4 | 2785.8 | 1563.6 |
| 77.5° | 5114.7 | 5343.2 | 6587.5 | 8998.9 | 11859.1 | 11261.7 | 9544.0 | 7072.0 | 2959.3 | 1335.1 | 966.2 |
| 80° | 2262.8 | 2403.2 | 3245.6 | 4833.9 | 6851.7 | 6477.3 | 5106.5 | 3019.8 | 1618.6 | 847.9 | 674.4 |
| 82.5° | 1214.0 | 1304.8 | 1599.4 | 1913.2 | 3008.8 | 3146.5 | 2551.8 | 1739.8 | 869.9 | 484.5 | 385.4 |
| 85° | 534.0 | 586.3 | 726.7 | 693.7 | 988.3 | 971.7 | 980.0 | 1194.7 | 415.7 | 223.0 | 250.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 2.8 | 30.3 | 159.7 | 41.3 | 66.1 | 57.8 |
| 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° | 6262.6 | 6262.6 | 6262.6 | 6262.6 | 6262.6 | 6262.6 | 6262.6 | 6262.6 | 6262.6 | 6262.6 | 6262.6 |
| 2.5° | 6196.6 | 6147.0 | 6133.2 | 6116.7 | 6086.5 | 6034.1 | 5995.6 | 5951.6 | 5932.3 | 5910.3 | 5913.0 |
| 5° | 6042.4 | 5981.8 | 5924.0 | 5849.7 | 5756.1 | 5651.5 | 5579.9 | 5497.4 | 5453.3 | 5412.0 | 5423.0 |
| 7.5° | 5910.3 | 5816.7 | 5698.3 | 5541.4 | 5373.5 | 5186.3 | 5034.9 | 4916.5 | 4836.7 | 4781.6 | 4809.1 |
| 10° | 5827.7 | 5717.6 | 5511.1 | 5255.1 | 4971.6 | 4685.3 | 4467.8 | 4264.1 | 4137.5 | 4038.4 | 4032.9 |
| 12.5° | 5811.2 | 5668.0 | 5368.0 | 4996.3 | 4586.2 | 4203.5 | 3884.2 | 3608.9 | 3441.0 | 3317.1 | 3363.9 |
| 15° | 5827.7 | 5646.0 | 5244.1 | 4756.8 | 4239.3 | 3721.8 | 3325.4 | 3008.8 | 2807.9 | 2695.0 | 2686.7 |
| 17.5° | 5847.0 | 5624.0 | 5103.7 | 4498.1 | 3875.9 | 3284.1 | 2824.4 | 2488.5 | 2282.1 | 2169.2 | 2172.0 |
| 20° | 5863.5 | 5590.9 | 4938.5 | 4214.5 | 3507.1 | 2876.7 | 2400.4 | 2081.1 | 1896.7 | 1814.1 | 1827.9 |
| 22.5° | 5891.0 | 5557.9 | 4762.4 | 3911.7 | 3129.9 | 2483.0 | 2064.6 | 1805.8 | 1695.7 | 1640.7 | 1643.4 |
| 25° | 5943.3 | 5538.6 | 4580.7 | 3581.4 | 2758.3 | 2169.2 | 1833.4 | 1659.9 | 1591.1 | 1558.1 | 1555.3 |
| 27.5° | 6050.7 | 5555.2 | 4390.7 | 3262.1 | 2422.5 | 1929.7 | 1684.7 | 1571.9 | 1525.1 | 1503.0 | 1500.3 |
| 30° | 6229.6 | 5621.2 | 4225.6 | 2937.2 | 2133.4 | 1742.5 | 1582.9 | 1514.0 | 1486.5 | 1467.2 | 1464.5 |
| 32.5° | 6502.1 | 5745.1 | 4046.6 | 2634.4 | 1899.4 | 1604.9 | 1503.0 | 1467.2 | 1448.0 | 1437.0 | 1437.0 |
| 35° | 6915.0 | 5970.8 | 3870.4 | 2370.2 | 1717.7 | 1497.5 | 1439.7 | 1426.0 | 1409.4 | 1403.9 | 1409.4 |
| 37.5° | 7509.7 | 6331.5 | 3710.8 | 2138.9 | 1588.4 | 1414.9 | 1370.9 | 1376.4 | 1362.6 | 1370.9 | 1379.2 |
| 40° | 8263.9 | 6813.2 | 3575.9 | 1949.0 | 1492.0 | 1354.4 | 1310.3 | 1329.6 | 1321.3 | 1329.6 | 1343.4 |
| 42.5° | 9219.1 | 7410.5 | 3474.0 | 1800.3 | 1423.2 | 1304.8 | 1263.5 | 1282.8 | 1277.3 | 1288.3 | 1302.1 |
| 45° | 10284.5 | 8197.9 | 3427.2 | 1695.7 | 1373.6 | 1269.0 | 1225.0 | 1238.8 | 1233.3 | 1241.5 | 1255.3 |
| 47.5° | 11305.8 | 8913.6 | 3468.5 | 1635.2 | 1332.4 | 1238.8 | 1192.0 | 1197.5 | 1194.7 | 1192.0 | 1200.2 |
| 50° | 12186.7 | 9483.4 | 3586.9 | 1615.9 | 1304.8 | 1208.5 | 1164.4 | 1167.2 | 1158.9 | 1142.4 | 1147.9 |
| 52.5° | 12905.1 | 9940.4 | 3658.5 | 1615.9 | 1291.1 | 1175.4 | 1134.2 | 1136.9 | 1120.4 | 1098.4 | 1101.1 |
| 55° | 13378.6 | 10124.8 | 3600.7 | 1613.1 | 1285.6 | 1147.9 | 1103.9 | 1106.6 | 1090.1 | 1062.6 | 1065.3 |
| 57.5° | 13513.5 | 9945.9 | 3358.4 | 1582.9 | 1280.1 | 1125.9 | 1073.6 | 1079.1 | 1068.1 | 1037.8 | 1037.8 |
| 60° | 13136.4 | 9290.7 | 2915.2 | 1514.0 | 1266.3 | 1112.1 | 1051.6 | 1059.8 | 1054.3 | 1024.0 | 1024.0 |
| 62.5° | 12148.1 | 8126.3 | 2386.7 | 1409.4 | 1227.8 | 1095.6 | 1032.3 | 1048.8 | 1062.6 | 1046.1 | 1043.3 |
| 65° | 10298.2 | 6510.4 | 1940.7 | 1293.8 | 1178.2 | 1068.1 | 1004.8 | 1046.1 | 1076.3 | 1098.4 | 1098.4 |
| 67.5° | 7727.1 | 4660.5 | 1582.9 | 1172.7 | 1103.9 | 1013.0 | 969.0 | 1007.5 | 1029.5 | 1043.3 | 1051.6 |
| 70° | 4710.0 | 2741.8 | 1247.0 | 1032.3 | 996.5 | 930.4 | 897.4 | 858.9 | 828.6 | 823.1 | 825.8 |
| 72.5° | 2304.1 | 1569.1 | 1013.0 | 878.1 | 850.6 | 790.1 | 715.7 | 699.2 | 685.4 | 677.2 | 674.4 |
| 75° | 1269.0 | 1092.9 | 836.9 | 729.5 | 679.9 | 605.6 | 589.1 | 561.6 | 556.1 | 545.1 | 547.8 |
| 77.5° | 897.4 | 861.6 | 691.0 | 591.9 | 517.5 | 479.0 | 487.2 | 468.0 | 468.0 | 459.7 | 457.0 |
| 80° | 674.4 | 677.2 | 531.3 | 432.2 | 382.6 | 368.9 | 377.1 | 377.1 | 371.6 | 368.9 | 366.1 |
| 82.5° | 426.7 | 481.7 | 357.9 | 278.0 | 272.5 | 275.3 | 272.5 | 269.8 | 275.3 | 267.0 | 264.3 |
| 85° | 294.6 | 346.9 | 217.5 | 165.2 | 165.2 | 162.4 | 167.9 | 165.2 | 170.7 | 162.4 | 162.4 |
| 87.5° | 66.1 | 154.2 | 79.8 | 49.6 | 52.3 | 49.6 | 52.3 | 55.1 | 60.6 | 63.3 | 63.3 |
| 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)