

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: P639735

Luminaire Tested: GWS-SA5C-740-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-740-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20281.5 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

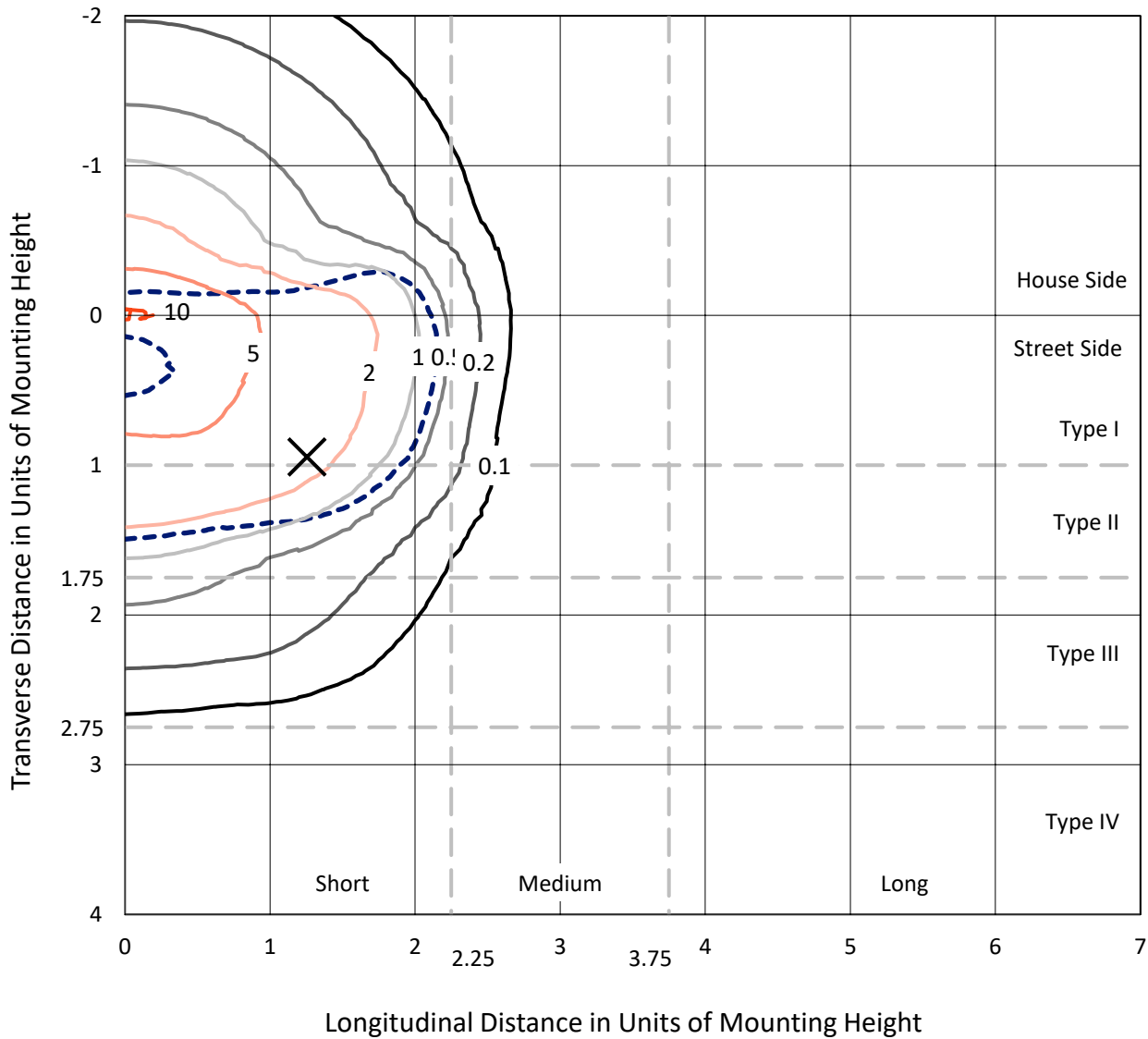
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

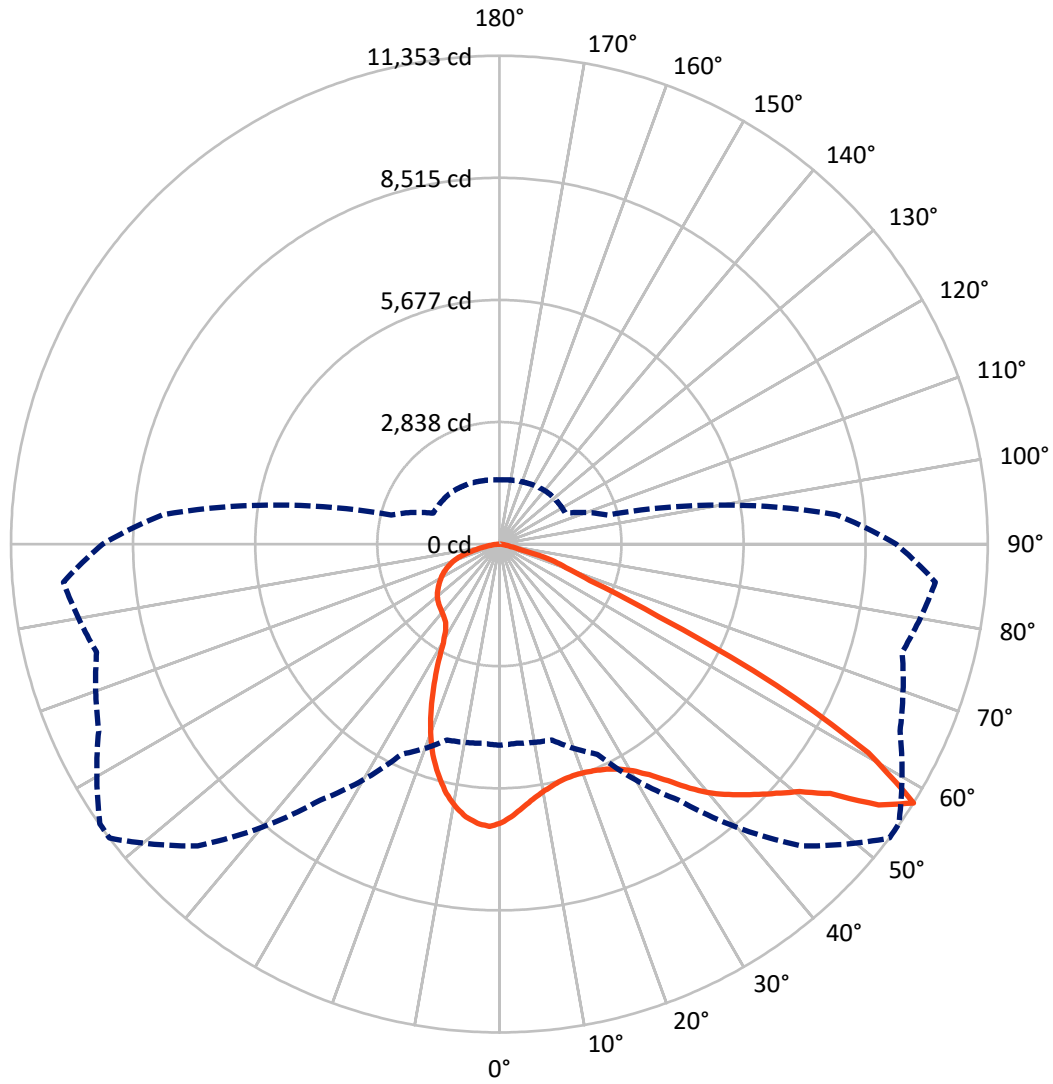
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6341.3 | 0.0 | 6341.3 |
| | % Fixture | 31.3 | 0.0 | 31.3 |
| Street Side | Lumens | 13940.2 | 0.0 | 13940.2 |
| | % Fixture | 68.7 | 0.0 | 68.7 |
| Total | Lumens | 20281.5 | 0.0 | 20281.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 585.7 | 2.9 |
| 10°-20° | 1536.5 | 7.6 |
| 20°-30° | 2263.8 | 11.2 |
| 30°-40° | 3168.8 | 15.6 |
| 40°-50° | 4165.6 | 20.5 |
| 50°-60° | 4884.1 | 24.1 |
| 60°-70° | 2877.3 | 14.2 |
| 70°-80° | 715.8 | 3.5 |
| 80°-90° | 84.0 | 0.4 |
| 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° | 20281.5 | 100.0 |
| 0°-180° | 20281.5 | 100.0 |

Coefficient of Utilization



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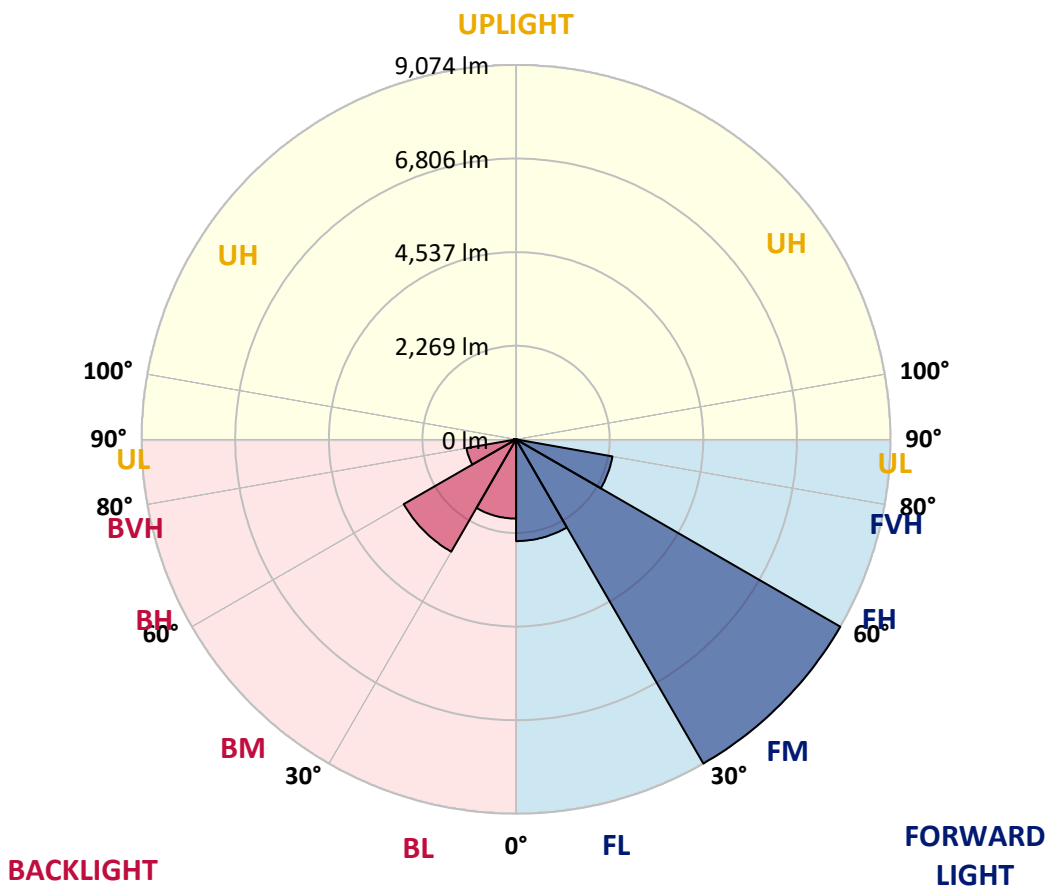
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2465.8 | 12.2 | | | |
| FM (30°-60°) | 9074.1 | 44.7 | | | |
| FH (60°-80°) | 2372.2 | 11.7 | | | G2/5000 |
| FVH (80°-90°) | 28.1 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1920.2 | 9.5 | B3/2500 | | |
| BM (30°-60°) | 3144.3 | 15.5 | B3/5000 | | |
| BH (60°-80°) | 1220.9 | 6.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 55.9 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|---------|
| 0° | 6476.4 | 6476.4 | 6476.4 | 6476.4 | 6476.4 | 6476.4 | 6476.4 | 6476.4 | 6476.4 | 6476.4 | 6476.4 |
| 2.5° | 6104.3 | 6121.4 | 6124.8 | 6177.7 | 6181.1 | 6257.9 | 6309.1 | 6298.9 | 6351.8 | 6416.7 | 6467.9 |
| 5° | 5812.4 | 5814.1 | 5831.2 | 5894.3 | 5928.5 | 6029.2 | 6114.5 | 6114.5 | 6217.0 | 6350.1 | 6464.5 |
| 7.5° | 5571.7 | 5570.0 | 5585.4 | 5655.4 | 5711.7 | 5832.9 | 5949.0 | 5962.6 | 6106.0 | 6300.6 | 6486.7 |
| 10° | 5348.1 | 5360.0 | 5377.1 | 5462.5 | 5534.2 | 5684.4 | 5822.6 | 5844.8 | 6025.8 | 6266.5 | 6517.4 |
| 12.5° | 5204.7 | 5206.4 | 5232.0 | 5327.6 | 5419.8 | 5580.2 | 5725.3 | 5752.7 | 5960.9 | 6234.0 | 6539.6 |
| 15° | 5112.5 | 5114.2 | 5141.5 | 5247.4 | 5354.9 | 5517.1 | 5665.6 | 5696.3 | 5923.4 | 6228.9 | 6582.3 |
| 17.5° | 5071.6 | 5069.8 | 5095.5 | 5201.3 | 5319.1 | 5488.1 | 5646.8 | 5684.4 | 5940.4 | 6268.2 | 6657.4 |
| 20° | 5071.6 | 5073.3 | 5086.9 | 5182.5 | 5302.0 | 5481.2 | 5665.6 | 5711.7 | 6007.0 | 6356.9 | 6773.5 |
| 22.5° | 5143.2 | 5150.1 | 5156.9 | 5221.8 | 5315.7 | 5491.5 | 5715.1 | 5776.6 | 6150.4 | 6505.5 | 6925.4 |
| 25° | 5283.2 | 5284.9 | 5291.8 | 5344.7 | 5387.4 | 5520.5 | 5797.0 | 5889.2 | 6374.0 | 6722.2 | 7116.6 |
| 27.5° | 5471.0 | 5494.9 | 5501.7 | 5535.9 | 5535.9 | 5592.2 | 5925.1 | 6058.2 | 6676.2 | 7034.6 | 7360.7 |
| 30° | 5733.9 | 5742.4 | 5754.4 | 5791.9 | 5750.9 | 5727.0 | 6112.8 | 6283.5 | 7026.1 | 7411.9 | 7654.3 |
| 32.5° | 5964.3 | 5983.1 | 6048.0 | 6109.4 | 6036.0 | 5960.9 | 6389.4 | 6590.8 | 7362.4 | 7804.5 | 7966.7 |
| 35° | 6160.6 | 6206.7 | 6331.3 | 6467.9 | 6416.7 | 6341.6 | 6756.4 | 6966.3 | 7638.9 | 8086.2 | 8243.2 |
| 37.5° | 6397.9 | 6433.8 | 6604.5 | 6826.4 | 6872.5 | 6836.6 | 7203.6 | 7353.8 | 7823.3 | 8157.8 | 8393.4 |
| 40° | 6638.6 | 6693.2 | 6913.4 | 7220.7 | 7396.5 | 7422.1 | 7616.7 | 7717.4 | 7886.4 | 8017.9 | 8364.4 |
| 42.5° | 6884.4 | 6978.3 | 7280.4 | 7638.9 | 7951.3 | 8009.3 | 7965.0 | 8007.6 | 7865.9 | 7825.0 | 8229.5 |
| 45° | 7184.8 | 7295.8 | 7637.2 | 8094.7 | 8506.1 | 8596.5 | 8306.4 | 8267.1 | 7862.5 | 7751.6 | 8145.9 |
| 47.5° | 7539.9 | 7650.9 | 7976.9 | 8509.5 | 9035.3 | 9101.8 | 8656.3 | 8584.6 | 7982.0 | 7864.2 | 8258.6 |
| 50° | 7854.0 | 7930.8 | 8222.7 | 8818.5 | 9528.6 | 9567.8 | 9042.1 | 8955.0 | 8279.0 | 8176.6 | 8610.2 |
| 52.5° | 7534.8 | 7526.2 | 7833.5 | 8567.5 | 9784.6 | 10257.5 | 9636.1 | 9552.5 | 8852.6 | 8695.6 | 9154.7 |
| 55° | 6392.8 | 6295.5 | 6570.3 | 7292.4 | 9069.4 | 10870.3 | 10701.3 | 10534.0 | 9617.3 | 9217.9 | 9665.1 |
| 57.5° | 4673.8 | 4646.5 | 4713.1 | 5390.8 | 7265.1 | 9921.2 | 11353.4 | 11338.0 | 10278.0 | 9695.9 | 10173.8 |
| 60° | 3654.7 | 3613.8 | 3436.2 | 3455.0 | 4952.1 | 7749.9 | 9852.9 | 10305.3 | 10687.6 | 9982.6 | 10528.9 |
| 62.5° | 3245.0 | 3214.3 | 3122.1 | 2867.8 | 2949.7 | 5196.2 | 7222.4 | 7637.2 | 9339.1 | 8816.8 | 9043.8 |
| 65° | 2686.8 | 2678.3 | 2755.1 | 2744.9 | 2471.8 | 2869.5 | 4076.4 | 4494.6 | 5872.1 | 5945.5 | 5872.1 |
| 67.5° | 1952.8 | 1937.5 | 2132.1 | 2516.1 | 2379.6 | 2166.2 | 2272.0 | 2417.1 | 3011.2 | 2703.9 | 2434.2 |
| 70° | 1270.0 | 1247.8 | 1360.5 | 1818.0 | 2130.4 | 1888.0 | 1637.0 | 1613.1 | 1655.8 | 1029.3 | 1113.0 |
| 72.5° | 851.8 | 826.2 | 824.5 | 1000.3 | 1287.1 | 1271.7 | 1268.3 | 1256.4 | 1121.5 | 812.5 | 901.3 |
| 75° | 474.6 | 454.1 | 448.9 | 431.9 | 460.9 | 469.4 | 500.2 | 517.2 | 559.9 | 616.2 | 682.8 |
| 77.5° | 80.2 | 78.5 | 99.0 | 126.3 | 174.1 | 223.6 | 276.5 | 291.9 | 360.2 | 426.8 | 469.4 |
| 80° | 44.4 | 46.1 | 59.7 | 73.4 | 97.3 | 133.1 | 170.7 | 180.9 | 221.9 | 257.8 | 291.9 |
| 82.5° | 23.9 | 23.9 | 30.7 | 39.3 | 52.9 | 70.0 | 92.2 | 100.7 | 128.0 | 150.2 | 174.1 |
| 85° | 8.5 | 8.5 | 11.9 | 15.4 | 22.2 | 29.0 | 35.8 | 41.0 | 56.3 | 76.8 | 87.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 3.4 | 6.8 | 6.8 | 8.5 | 15.4 | 22.2 |
| 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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CATALOG NUMBER: GWS-SA5C-740-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6476.4 | 6476.4 | 6476.4 | 6476.4 | 6476.4 | 6476.4 | 6476.4 | 6476.4 | 6476.4 | 6476.4 | 6476.4 |
| 2.5° | 6510.6 | 6464.5 | 6527.6 | 6556.7 | 6566.9 | 6573.7 | 6529.3 | 6498.6 | 6488.4 | 6455.9 | 6437.2 |
| 5° | 6534.5 | 6503.7 | 6563.5 | 6563.5 | 6520.8 | 6476.4 | 6386.0 | 6322.8 | 6278.4 | 6225.5 | 6217.0 |
| 7.5° | 6575.4 | 6553.2 | 6585.7 | 6519.1 | 6411.6 | 6292.1 | 6135.0 | 6012.1 | 5913.1 | 5848.2 | 5850.0 |
| 10° | 6630.1 | 6602.8 | 6577.1 | 6428.6 | 6232.3 | 6012.1 | 5771.4 | 5592.2 | 5428.3 | 5353.2 | 5312.2 |
| 12.5° | 6665.9 | 6626.6 | 6519.1 | 6273.3 | 5984.8 | 5689.5 | 5349.8 | 5083.5 | 4846.2 | 4738.7 | 4730.2 |
| 15° | 6710.3 | 6638.6 | 6423.5 | 6071.9 | 5670.7 | 5267.9 | 4830.9 | 4460.4 | 4139.5 | 3972.2 | 3963.7 |
| 17.5° | 6768.3 | 6650.5 | 6309.1 | 5841.4 | 5339.6 | 4745.5 | 4195.9 | 3729.8 | 3388.4 | 3258.7 | 3280.9 |
| 20° | 6850.3 | 6664.2 | 6179.4 | 5585.4 | 4928.2 | 4151.5 | 3467.0 | 3038.5 | 2907.1 | 2898.5 | 2881.4 |
| 22.5° | 6942.4 | 6672.7 | 6036.0 | 5298.6 | 4429.7 | 3518.2 | 2864.4 | 2681.7 | 2680.0 | 2722.7 | 2732.9 |
| 25° | 7046.6 | 6679.6 | 5873.9 | 4964.0 | 3890.3 | 2886.6 | 2533.2 | 2478.6 | 2521.3 | 2601.5 | 2611.7 |
| 27.5° | 7179.7 | 6693.2 | 5677.5 | 4597.0 | 3316.7 | 2494.0 | 2350.6 | 2336.9 | 2388.1 | 2463.2 | 2459.8 |
| 30° | 7376.0 | 6742.7 | 5469.3 | 4175.4 | 2727.8 | 2307.9 | 2239.6 | 2241.3 | 2261.8 | 2297.6 | 2302.8 |
| 32.5° | 7575.8 | 6819.5 | 5266.2 | 3700.8 | 2389.8 | 2202.1 | 2171.3 | 2167.9 | 2167.9 | 2183.3 | 2186.7 |
| 35° | 7765.2 | 6906.6 | 5045.9 | 3205.8 | 2226.0 | 2140.6 | 2120.1 | 2109.9 | 2104.8 | 2101.3 | 2096.2 |
| 37.5° | 7871.1 | 6949.3 | 4830.9 | 2717.6 | 2138.9 | 2099.6 | 2079.1 | 2065.5 | 2046.7 | 2033.1 | 2029.6 |
| 40° | 7825.0 | 6899.8 | 4581.6 | 2352.3 | 2086.0 | 2060.4 | 2036.5 | 2017.7 | 1992.1 | 1980.1 | 1973.3 |
| 42.5° | 7671.3 | 6746.1 | 4310.2 | 2179.9 | 2043.3 | 2017.7 | 1988.7 | 1958.0 | 1940.9 | 1930.6 | 1928.9 |
| 45° | 7509.2 | 6560.1 | 3982.5 | 2079.1 | 2002.3 | 1971.6 | 1937.5 | 1903.3 | 1884.5 | 1879.4 | 1877.7 |
| 47.5° | 7504.1 | 6467.9 | 3634.2 | 1998.9 | 1952.8 | 1922.1 | 1879.4 | 1845.3 | 1824.8 | 1818.0 | 1811.1 |
| 50° | 7729.4 | 6561.8 | 3241.6 | 1928.9 | 1901.6 | 1869.2 | 1821.4 | 1783.8 | 1758.2 | 1749.7 | 1748.0 |
| 52.5° | 8197.1 | 6915.1 | 2890.0 | 1858.9 | 1833.3 | 1795.8 | 1756.5 | 1719.0 | 1688.2 | 1672.9 | 1671.2 |
| 55° | 8702.4 | 7364.1 | 2671.5 | 1787.2 | 1753.1 | 1720.7 | 1684.8 | 1643.9 | 1609.7 | 1585.8 | 1582.4 |
| 57.5° | 9224.7 | 7854.0 | 2604.9 | 1696.8 | 1671.2 | 1649.0 | 1606.3 | 1561.9 | 1522.7 | 1500.5 | 1495.3 |
| 60° | 9654.9 | 8275.6 | 2729.5 | 1601.2 | 1587.5 | 1558.5 | 1519.2 | 1476.6 | 1449.3 | 1432.2 | 1428.8 |
| 62.5° | 8082.7 | 6737.6 | 2203.8 | 1497.1 | 1497.1 | 1466.3 | 1421.9 | 1391.2 | 1372.4 | 1360.5 | 1357.1 |
| 65° | 5129.6 | 4172.0 | 1503.9 | 1392.9 | 1391.2 | 1350.3 | 1312.7 | 1292.2 | 1283.7 | 1264.9 | 1261.5 |
| 67.5° | 2234.5 | 1906.7 | 1285.4 | 1287.1 | 1280.3 | 1235.9 | 1198.3 | 1183.0 | 1165.9 | 1145.4 | 1143.7 |
| 70° | 1159.1 | 1181.3 | 1150.5 | 1169.3 | 1157.4 | 1104.4 | 1068.6 | 1044.7 | 1008.8 | 988.4 | 990.1 |
| 72.5° | 935.4 | 959.3 | 993.5 | 1022.5 | 996.9 | 954.2 | 897.9 | 868.9 | 822.8 | 800.6 | 802.3 |
| 75° | 713.5 | 739.1 | 771.6 | 802.3 | 781.8 | 728.9 | 693.0 | 664.0 | 611.1 | 585.5 | 590.6 |
| 77.5° | 491.6 | 505.3 | 544.5 | 542.8 | 536.0 | 520.6 | 467.7 | 433.6 | 379.0 | 348.2 | 351.6 |
| 80° | 305.6 | 314.1 | 332.9 | 341.4 | 338.0 | 317.5 | 274.8 | 249.2 | 216.8 | 198.0 | 199.7 |
| 82.5° | 184.4 | 189.5 | 206.5 | 208.3 | 206.5 | 191.2 | 158.8 | 140.0 | 119.5 | 109.2 | 109.2 |
| 85° | 93.9 | 97.3 | 107.5 | 107.5 | 97.3 | 81.9 | 73.4 | 64.9 | 52.9 | 47.8 | 47.8 |
| 87.5° | 25.6 | 25.6 | 32.4 | 27.3 | 22.2 | 20.5 | 10.2 | 8.5 | 3.4 | 1.7 | 1.7 |
| 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)