

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: P642158

Luminaire Tested: GWS-SA6C-735-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-735-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16380.3 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

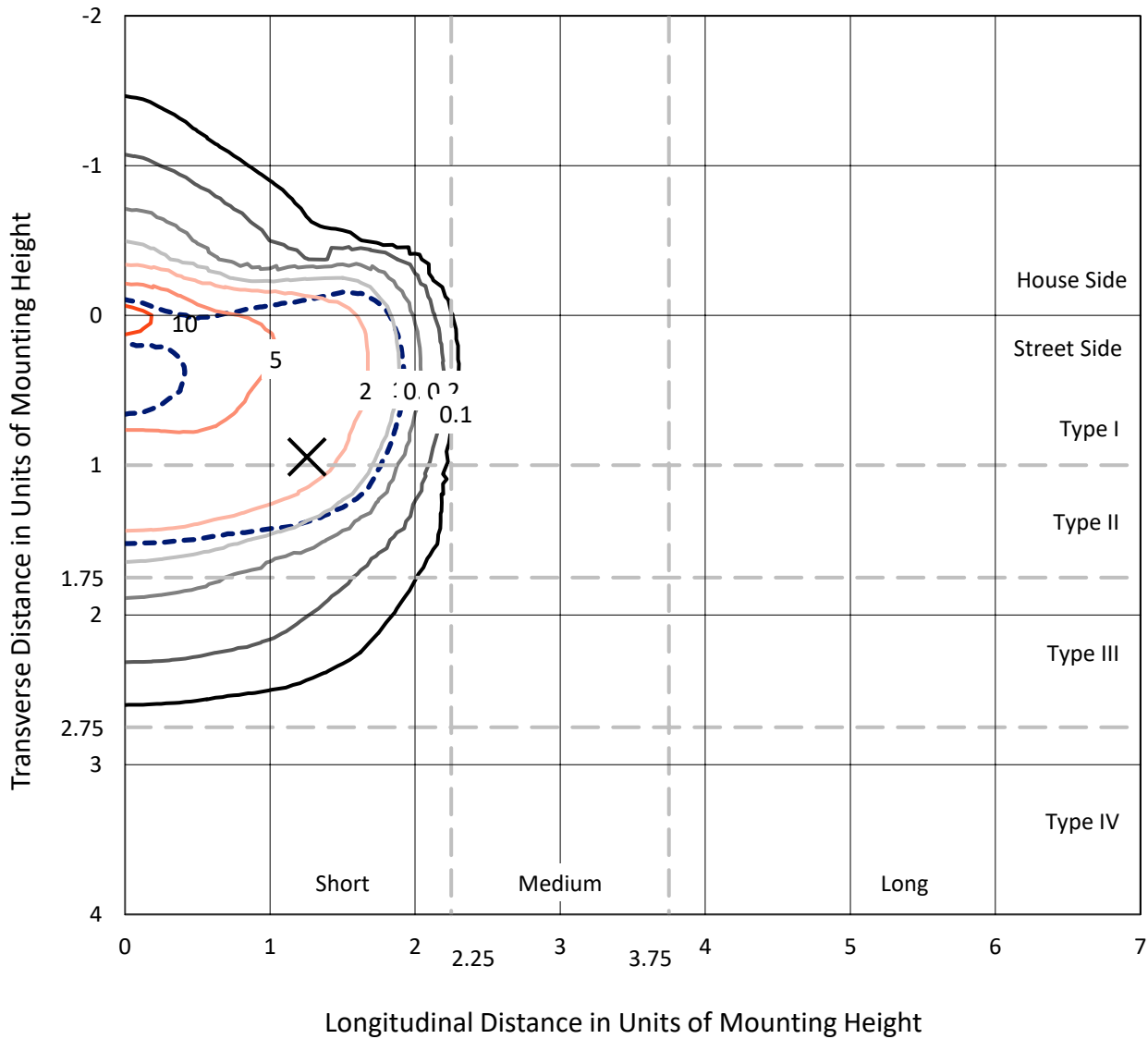
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

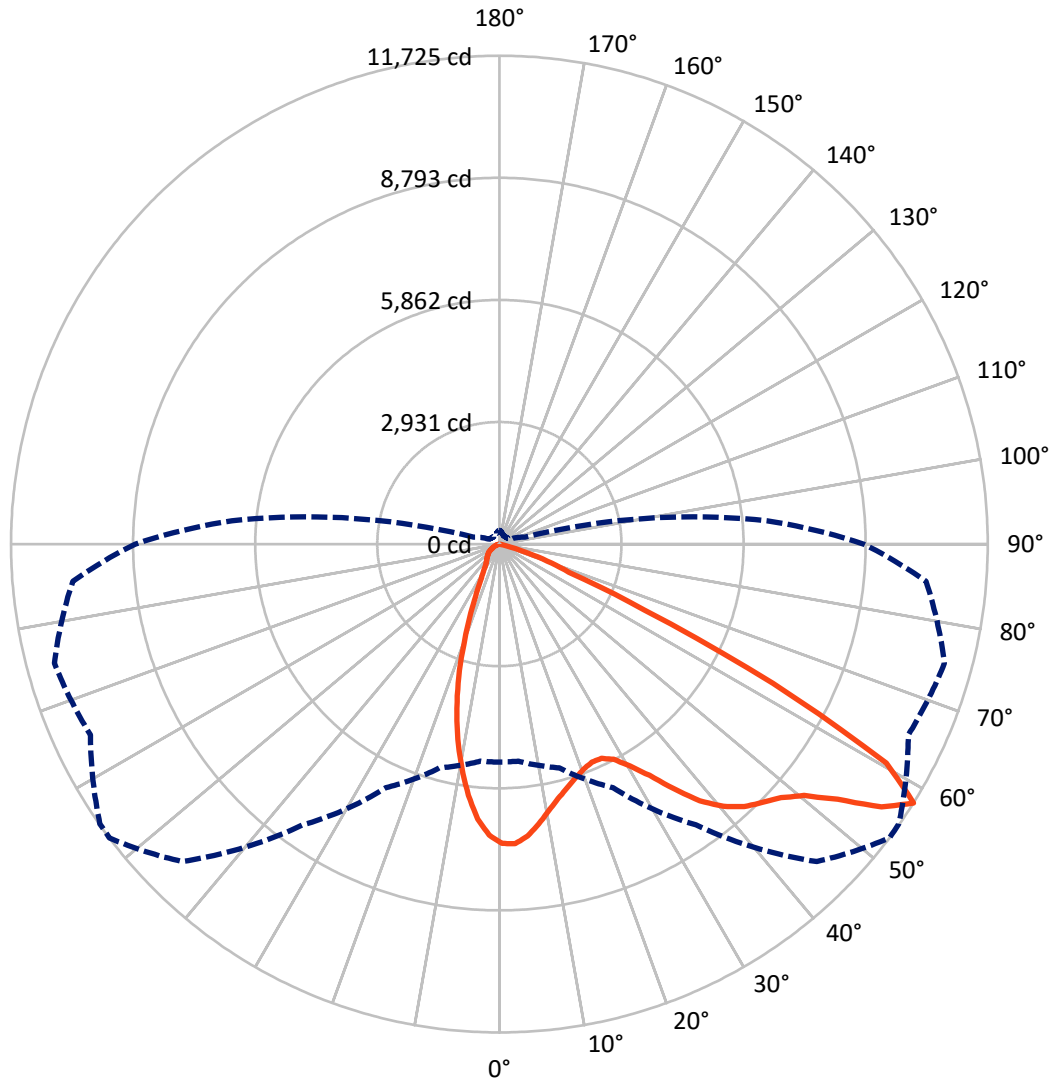
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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 | 2705.8 | 0.0 | 2705.8 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 13674.5 | 0.0 | 13674.5 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 16380.3 | 0.0 | 16380.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 614.8 | 3.8 |
| 10°-20° | 1349.6 | 8.2 |
| 20°-30° | 1758.2 | 10.7 |
| 30°-40° | 2550.3 | 15.6 |
| 40°-50° | 3679.9 | 22.5 |
| 50°-60° | 4450.6 | 27.2 |
| 60°-70° | 1813.9 | 11.1 |
| 70°-80° | 163.0 | 1.0 |
| 80°-90° | 0.0 | 0.0 |
| 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° | 16380.3 | 100.0 |
| 0°-180° | 16380.3 | 100.0 |

Coefficient of Utilization



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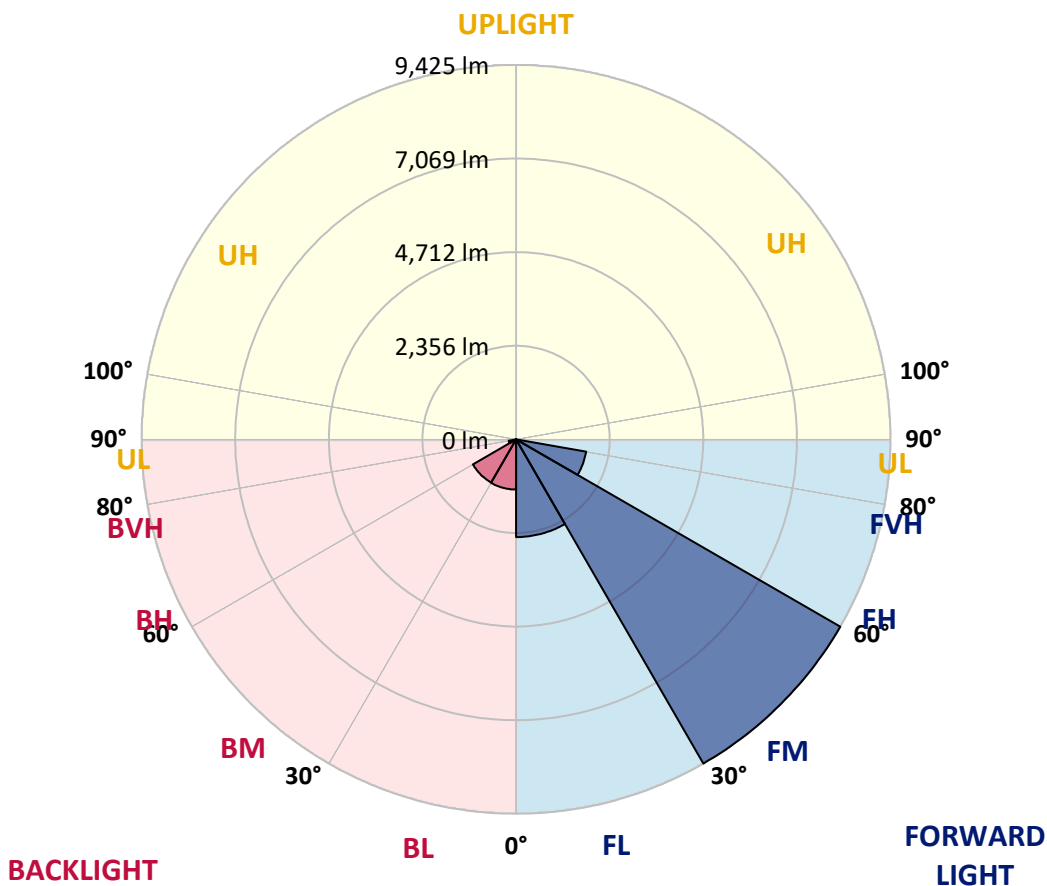
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2459.8 | 15.0 | | | |
| FM (30°-60°) | 9424.9 | 57.5 | | | |
| FH (60°-80°) | 1789.8 | 10.9 | | | G1/1800 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1262.8 | 7.7 | B3/2500 | | |
| BM (30°-60°) | 1255.9 | 7.7 | B2/2500 | | |
| BH (60°-80°) | 187.0 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 7185.3 | 7185.3 | 7185.3 | 7185.3 | 7185.3 | 7185.3 | 7185.3 | 7185.3 | 7185.3 | 7185.3 | 7185.3 |
| 2.5° | 7085.0 | 7101.0 | 7129.1 | 7165.3 | 7189.3 | 7201.4 | 7201.4 | 7235.5 | 7213.4 | 7195.4 | 7175.3 |
| 5° | 6781.8 | 6797.9 | 6836.0 | 6894.2 | 6952.4 | 6994.6 | 7042.8 | 7078.9 | 7093.0 | 7093.0 | 7058.9 |
| 7.5° | 6354.2 | 6376.3 | 6400.3 | 6480.7 | 6607.1 | 6701.5 | 6783.8 | 6836.0 | 6912.3 | 6936.4 | 6888.2 |
| 10° | 5894.4 | 5916.5 | 5970.7 | 6081.1 | 6225.7 | 6366.2 | 6506.8 | 6573.0 | 6703.5 | 6771.8 | 6717.6 |
| 12.5° | 5504.9 | 5515.0 | 5587.3 | 5719.8 | 5904.5 | 6097.2 | 6267.8 | 6336.1 | 6520.8 | 6623.2 | 6559.0 |
| 15° | 5183.7 | 5189.7 | 5262.0 | 5408.6 | 5621.4 | 5858.3 | 6073.1 | 6143.4 | 6370.2 | 6524.8 | 6428.5 |
| 17.5° | 4940.8 | 4942.8 | 5005.0 | 5163.6 | 5386.5 | 5649.5 | 5904.5 | 5990.8 | 6283.9 | 6470.6 | 6326.1 |
| 20° | 4818.3 | 4812.3 | 4856.5 | 4995.0 | 5205.8 | 5468.8 | 5769.9 | 5876.4 | 6235.7 | 6462.6 | 6247.8 |
| 22.5° | 4820.3 | 4806.3 | 4824.4 | 4922.7 | 5101.4 | 5348.3 | 5685.6 | 5806.1 | 6239.7 | 6496.7 | 6181.5 |
| 25° | 4934.8 | 4914.7 | 4918.7 | 4970.9 | 5097.4 | 5322.2 | 5697.7 | 5826.2 | 6320.0 | 6611.1 | 6157.4 |
| 27.5° | 5127.5 | 5105.4 | 5105.4 | 5131.5 | 5199.8 | 5404.6 | 5848.2 | 5994.8 | 6534.9 | 6834.0 | 6207.6 |
| 30° | 5376.5 | 5354.4 | 5346.3 | 5372.4 | 5428.7 | 5617.4 | 6183.5 | 6336.1 | 6902.3 | 7199.4 | 6368.2 |
| 32.5° | 5661.5 | 5635.4 | 5649.5 | 5685.6 | 5739.8 | 6000.8 | 6615.2 | 6817.9 | 7362.0 | 7691.3 | 6657.3 |
| 35° | 5962.7 | 5940.6 | 6004.8 | 6083.1 | 6167.5 | 6532.9 | 7211.4 | 7388.1 | 7926.2 | 8303.6 | 7099.0 |
| 37.5° | 6249.8 | 6239.7 | 6374.2 | 6538.9 | 6713.5 | 7171.3 | 7817.7 | 7954.3 | 8410.0 | 8970.1 | 7639.1 |
| 40° | 6536.9 | 6534.9 | 6765.7 | 7054.8 | 7333.9 | 7807.7 | 8277.5 | 8389.9 | 8705.1 | 9488.1 | 8157.0 |
| 42.5° | 6858.1 | 6858.1 | 7177.3 | 7562.8 | 7934.2 | 8345.7 | 8614.8 | 8665.0 | 8837.6 | 9787.2 | 8546.5 |
| 45° | 7165.3 | 7183.3 | 7552.7 | 8000.4 | 8440.1 | 8765.3 | 8847.7 | 8851.7 | 8891.8 | 9963.9 | 8869.7 |
| 47.5° | 7408.2 | 7424.2 | 7865.9 | 8381.9 | 8855.7 | 9084.6 | 9096.6 | 9078.5 | 9034.4 | 10132.5 | 9118.7 |
| 50° | 7604.9 | 7629.0 | 8090.8 | 8636.9 | 9140.8 | 9391.7 | 9484.1 | 9466.0 | 9353.6 | 10313.2 | 9293.4 |
| 52.5° | 7701.3 | 7735.4 | 8169.1 | 8763.3 | 9458.0 | 9917.7 | 10174.7 | 10216.9 | 9831.4 | 10413.6 | 9460.0 |
| 55° | 6930.4 | 6980.6 | 7380.1 | 8193.2 | 9634.7 | 10730.8 | 11134.4 | 11126.3 | 10349.4 | 10712.8 | 9865.5 |
| 57.5° | 5233.9 | 5229.9 | 5561.2 | 6450.5 | 8229.3 | 10777.0 | 11724.6 | 11708.5 | 10833.2 | 11060.1 | 10281.1 |
| 60° | 3563.6 | 3539.5 | 3627.8 | 4057.4 | 5753.9 | 8779.4 | 10670.6 | 10887.4 | 10489.9 | 10216.9 | 8729.2 |
| 62.5° | 2933.2 | 2911.1 | 2883.0 | 2764.5 | 3304.6 | 5468.8 | 7372.0 | 7701.3 | 7649.1 | 7101.0 | 5474.8 |
| 65° | 2401.1 | 2419.2 | 2497.5 | 2447.3 | 2298.7 | 2804.7 | 3826.6 | 4021.3 | 3676.0 | 3093.8 | 1913.3 |
| 67.5° | 1770.7 | 1778.8 | 1881.2 | 2146.2 | 2065.9 | 1867.1 | 1800.9 | 1833.0 | 1074.1 | 493.9 | 319.2 |
| 70° | 1046.0 | 1052.0 | 1146.4 | 1501.7 | 1676.4 | 1433.5 | 1216.6 | 1198.6 | 425.6 | 132.5 | 144.5 |
| 72.5° | 592.3 | 580.2 | 598.3 | 714.7 | 913.5 | 760.9 | 626.4 | 570.2 | 128.5 | 74.3 | 74.3 |
| 75° | 281.1 | 273.0 | 234.9 | 220.8 | 200.8 | 128.5 | 80.3 | 68.3 | 32.1 | 30.1 | 30.1 |
| 77.5° | 2.0 | 6.0 | 4.0 | 6.0 | 6.0 | 4.0 | 2.0 | 2.0 | 6.0 | 6.0 | 8.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7185.3 | 7185.3 | 7185.3 | 7185.3 | 7185.3 | 7185.3 | 7185.3 | 7185.3 | 7185.3 | 7185.3 | 7185.3 |
| 2.5° | 7139.2 | 7078.9 | 7064.9 | 7060.9 | 7004.6 | 6944.4 | 6882.2 | 6858.1 | 6822.0 | 6799.9 | 6817.9 |
| 5° | 7004.6 | 6918.3 | 6842.0 | 6771.8 | 6647.3 | 6510.8 | 6392.3 | 6316.0 | 6243.8 | 6195.6 | 6207.6 |
| 7.5° | 6813.9 | 6701.5 | 6526.8 | 6348.1 | 6119.3 | 5914.5 | 5685.6 | 5545.1 | 5414.6 | 5342.3 | 5376.5 |
| 10° | 6611.1 | 6462.6 | 6183.5 | 5880.4 | 5521.0 | 5199.8 | 4872.5 | 4605.5 | 4450.9 | 4304.4 | 4320.4 |
| 12.5° | 6412.4 | 6215.6 | 5798.1 | 5338.3 | 4884.6 | 4410.8 | 3916.9 | 3547.5 | 3294.5 | 3111.8 | 3083.7 |
| 15° | 6227.7 | 5974.7 | 5422.6 | 4816.3 | 4198.0 | 3567.6 | 2937.2 | 2409.2 | 2116.0 | 1935.4 | 1923.3 |
| 17.5° | 6063.1 | 5749.9 | 5033.1 | 4270.2 | 3495.3 | 2688.2 | 1963.5 | 1568.0 | 1399.3 | 1321.0 | 1313.0 |
| 20° | 5904.5 | 5523.0 | 4635.6 | 3716.1 | 2728.4 | 1887.2 | 1355.2 | 1172.5 | 1118.3 | 1086.1 | 1090.1 |
| 22.5° | 5751.9 | 5276.1 | 4218.0 | 3101.8 | 2045.8 | 1325.0 | 1050.0 | 979.7 | 973.7 | 977.7 | 979.7 |
| 25° | 5623.4 | 5049.2 | 3788.4 | 2509.5 | 1459.6 | 1009.8 | 877.3 | 857.3 | 875.3 | 901.4 | 905.4 |
| 27.5° | 5557.1 | 4864.5 | 3368.8 | 1913.3 | 1056.0 | 821.1 | 760.9 | 768.9 | 801.0 | 829.2 | 833.2 |
| 30° | 5575.2 | 4726.0 | 2935.2 | 1387.3 | 813.1 | 692.6 | 672.6 | 688.6 | 720.7 | 746.8 | 750.9 |
| 32.5° | 5703.7 | 4655.7 | 2491.5 | 1009.8 | 668.5 | 604.3 | 596.3 | 608.3 | 636.4 | 656.5 | 658.5 |
| 35° | 5958.7 | 4671.8 | 2069.9 | 772.9 | 574.2 | 538.0 | 536.0 | 544.1 | 558.1 | 572.2 | 574.2 |
| 37.5° | 6334.1 | 4802.3 | 1654.3 | 642.4 | 520.0 | 493.9 | 485.8 | 485.8 | 495.9 | 501.9 | 505.9 |
| 40° | 6737.6 | 4999.0 | 1325.0 | 568.2 | 481.8 | 453.7 | 437.7 | 431.6 | 439.7 | 447.7 | 449.7 |
| 42.5° | 7070.9 | 5195.8 | 1076.1 | 516.0 | 451.7 | 413.6 | 393.5 | 389.5 | 399.5 | 413.6 | 417.6 |
| 45° | 7325.9 | 5348.3 | 897.4 | 473.8 | 417.6 | 375.4 | 353.3 | 353.3 | 371.4 | 395.5 | 399.5 |
| 47.5° | 7558.8 | 5470.8 | 764.9 | 435.7 | 385.5 | 341.3 | 319.2 | 323.2 | 353.3 | 385.5 | 391.5 |
| 50° | 7717.4 | 5569.2 | 666.5 | 401.5 | 359.4 | 313.2 | 293.1 | 301.1 | 337.3 | 375.4 | 381.5 |
| 52.5° | 7888.0 | 5689.6 | 602.3 | 371.4 | 335.3 | 291.1 | 273.0 | 279.1 | 319.2 | 361.4 | 369.4 |
| 55° | 8359.8 | 6093.2 | 600.3 | 331.3 | 293.1 | 261.0 | 253.0 | 255.0 | 295.1 | 343.3 | 353.3 |
| 57.5° | 8745.3 | 6448.5 | 640.4 | 279.1 | 244.9 | 228.9 | 224.9 | 226.9 | 263.0 | 317.2 | 329.3 |
| 60° | 7235.5 | 5011.1 | 530.0 | 230.9 | 204.8 | 200.8 | 194.7 | 198.8 | 232.9 | 281.1 | 291.1 |
| 62.5° | 4282.3 | 2864.9 | 253.0 | 176.7 | 174.7 | 170.6 | 164.6 | 172.7 | 204.8 | 246.9 | 253.0 |
| 65° | 1463.6 | 849.2 | 160.6 | 144.5 | 148.6 | 142.5 | 136.5 | 144.5 | 172.7 | 196.7 | 198.8 |
| 67.5° | 281.1 | 224.9 | 128.5 | 120.5 | 122.5 | 110.4 | 108.4 | 116.4 | 132.5 | 136.5 | 134.5 |
| 70° | 146.6 | 130.5 | 98.4 | 98.4 | 94.4 | 78.3 | 78.3 | 86.3 | 86.3 | 80.3 | 78.3 |
| 72.5° | 76.3 | 72.3 | 64.2 | 72.3 | 60.2 | 48.2 | 48.2 | 52.2 | 48.2 | 40.2 | 40.2 |
| 75° | 30.1 | 30.1 | 28.1 | 36.1 | 26.1 | 22.1 | 20.1 | 24.1 | 18.1 | 14.1 | 14.1 |
| 77.5° | 8.0 | 8.0 | 8.0 | 10.0 | 6.0 | 6.0 | 4.0 | 4.0 | 2.0 | 0.0 | 0.0 |
| 80° | 0.0 | 2.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)