

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: P643801

Luminaire Tested: GWS-SA6F-760-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-760-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32544.1 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

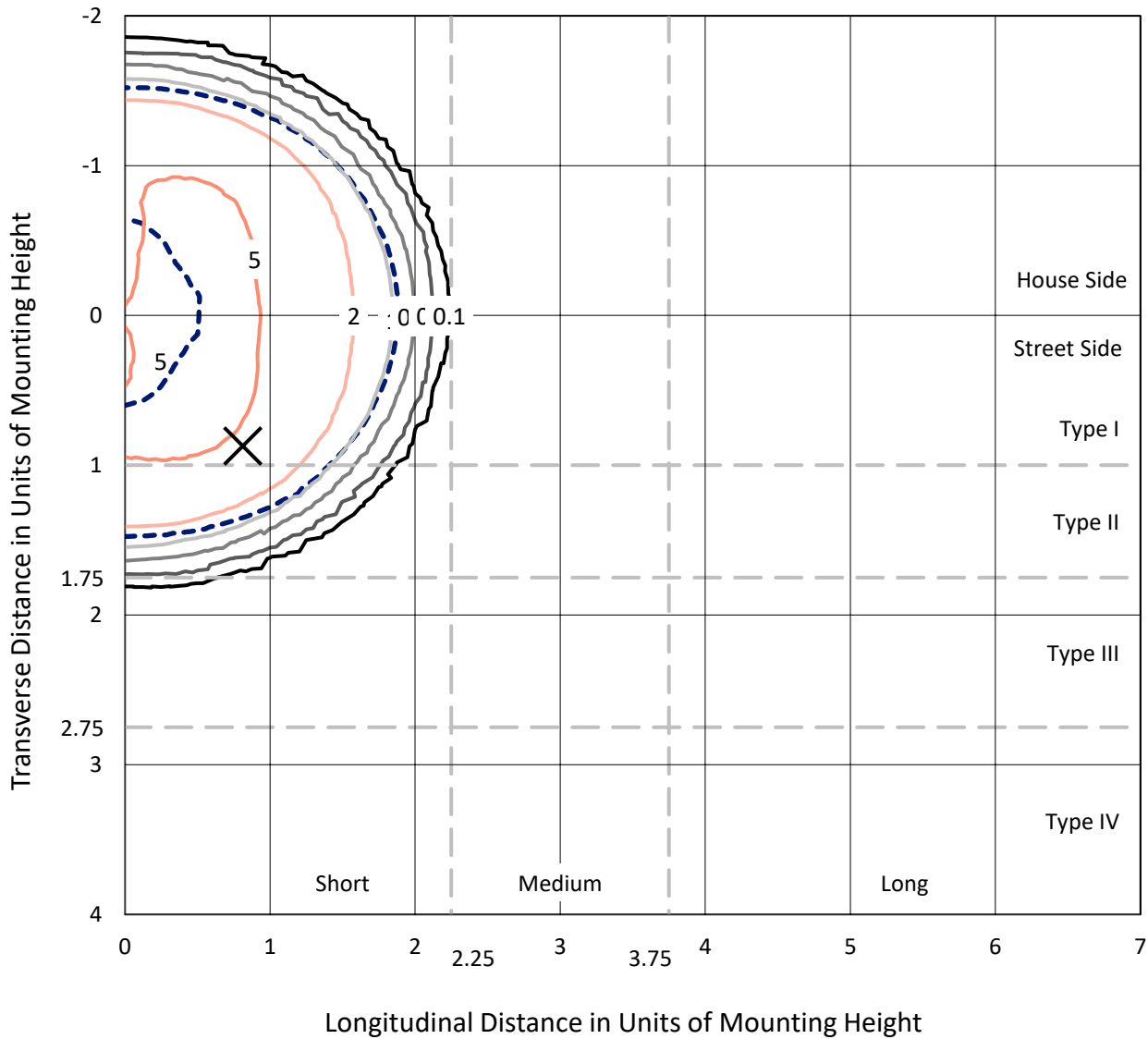
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

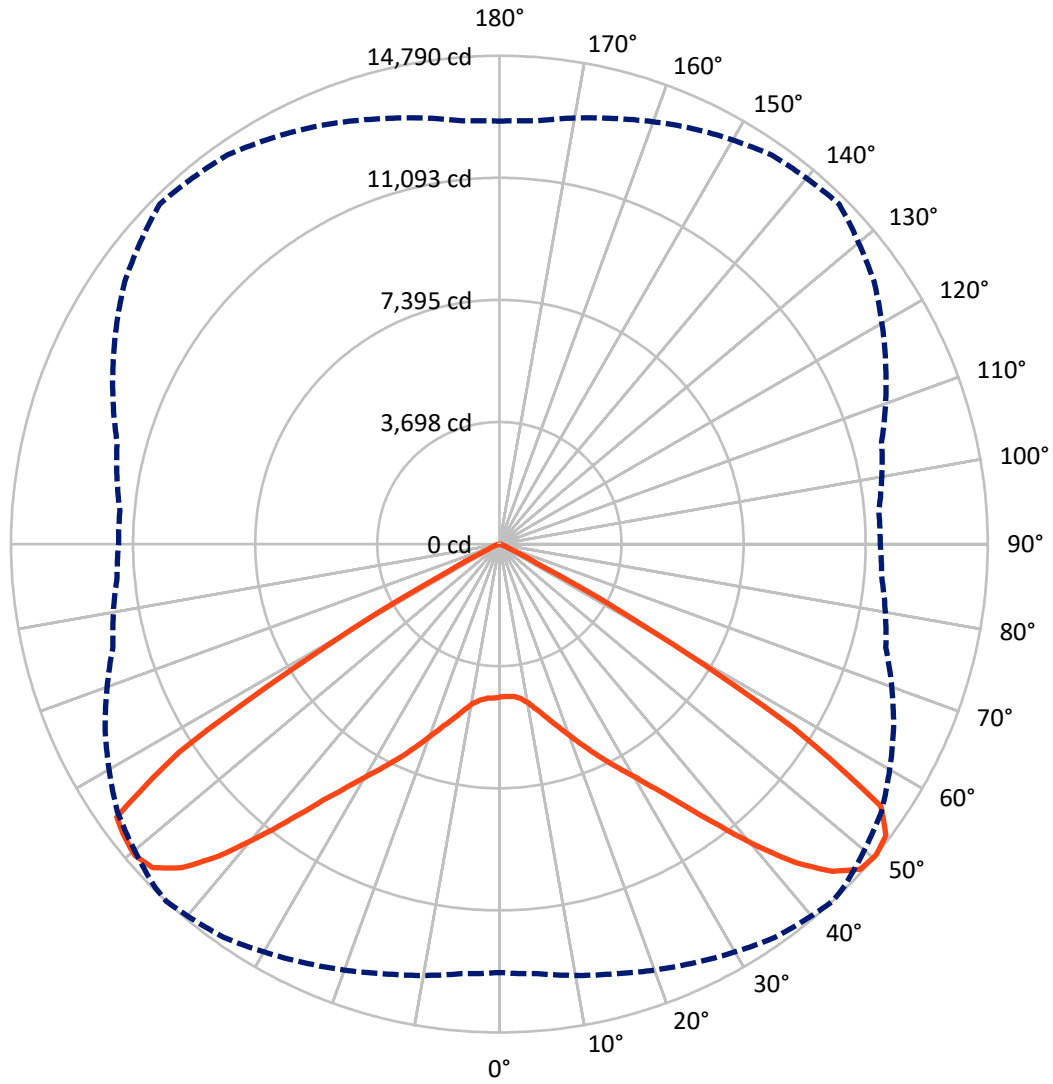
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 16271.7 | 0.0 | 16271.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 16272.5 | 0.0 | 16272.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 32544.1 | 0.0 | 32544.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 455.9 | 1.4 |
| 10°-20° | 1568.7 | 4.8 |
| 20°-30° | 3173.7 | 9.8 |
| 30°-40° | 5888.3 | 18.1 |
| 40°-50° | 9774.2 | 30.0 |
| 50°-60° | 9975.0 | 30.7 |
| 60°-70° | 1635.8 | 5.0 |
| 70°-80° | 71.6 | 0.2 |
| 80°-90° | 1.0 | 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° | 32544.1 | 100.0 |
| 0°-180° | 32544.1 | 100.0 |

Coefficient of Utilization



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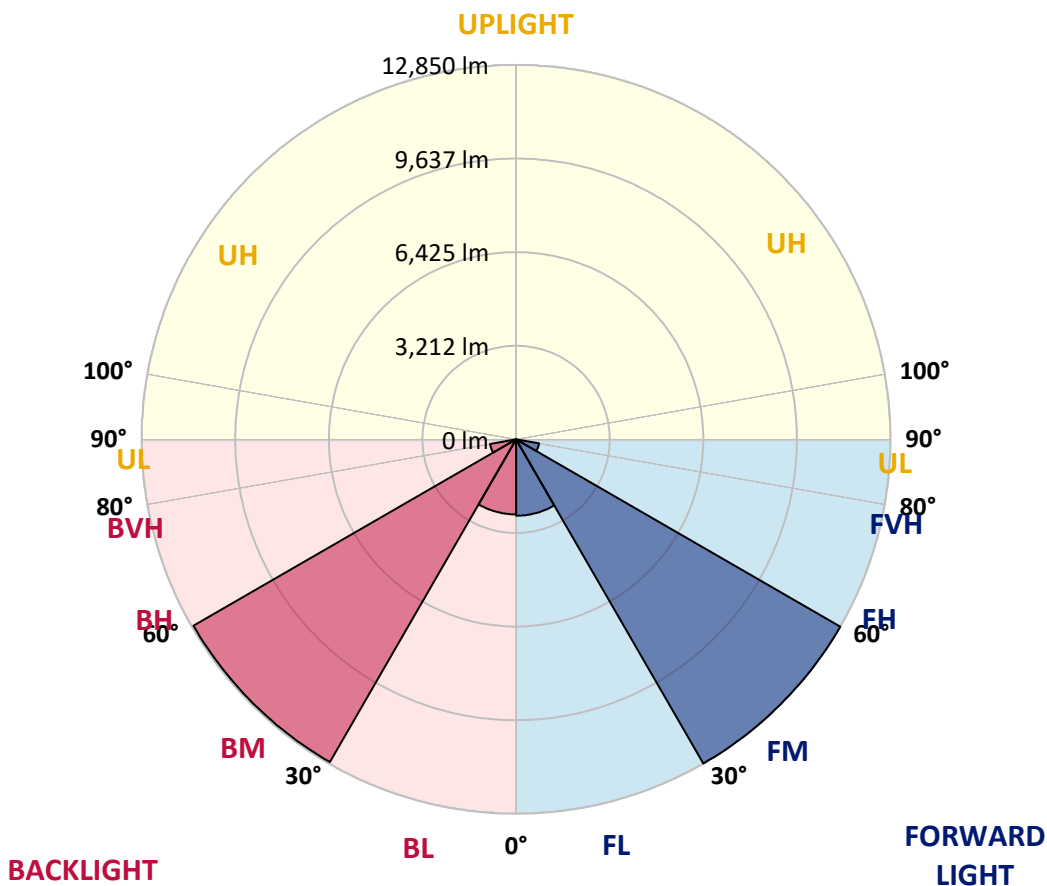
CATALOG NUMBER: GWS-SA6F-760-U-RW-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2621.9 | 8.1 | | | |
| FM (30°-60°) | 12850.0 | 39.5 | | | |
| FH (60°-80°) | 800.2 | 2.5 | | | G1/1800 |
| FVH (80°-90°) | 0.4 | 0.0 | | | G0/10 |
| BL (0°-30°) | 2576.3 | 7.9 | B4/5000 | | |
| BM (30°-60°) | 12787.5 | 39.3 | B5 | | |
| BH (60°-80°) | 907.2 | 2.8 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 0.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 43° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4628.9 | 4628.9 | 4628.9 | 4628.9 | 4628.9 | 4628.9 | 4628.9 | 4628.9 | 4628.9 | 4628.9 | 4628.9 |
| 2.5° | 4542.5 | 4553.3 | 4567.7 | 4582.1 | 4600.1 | 4618.1 | 4628.9 | 4661.3 | 4654.1 | 4682.9 | 4682.9 |
| 5° | 4492.1 | 4502.9 | 4520.9 | 4553.3 | 4592.9 | 4632.5 | 4661.3 | 4726.1 | 4762.1 | 4819.7 | 4841.3 |
| 7.5° | 4517.3 | 4531.7 | 4553.3 | 4603.7 | 4664.9 | 4726.1 | 4758.5 | 4862.8 | 4934.8 | 5042.8 | 5104.0 |
| 10° | 4600.1 | 4614.5 | 4650.5 | 4736.9 | 4816.1 | 4902.4 | 4942.0 | 5075.2 | 5190.4 | 5338.0 | 5424.4 |
| 12.5° | 4693.7 | 4711.7 | 4783.7 | 4913.2 | 5050.0 | 5165.2 | 5219.2 | 5366.8 | 5485.6 | 5651.1 | 5787.9 |
| 15° | 4790.9 | 4819.7 | 4931.2 | 5122.0 | 5316.4 | 5471.2 | 5528.7 | 5687.1 | 5805.9 | 5982.3 | 6137.1 |
| 17.5° | 5017.6 | 5050.0 | 5176.0 | 5381.2 | 5647.5 | 5827.5 | 5877.9 | 6043.5 | 6133.5 | 6252.2 | 6414.2 |
| 20° | 5302.0 | 5363.2 | 5517.9 | 5766.3 | 6057.9 | 6230.6 | 6266.6 | 6428.6 | 6421.4 | 6471.8 | 6612.2 |
| 22.5° | 5654.7 | 5697.9 | 5867.1 | 6162.2 | 6489.8 | 6680.6 | 6763.4 | 6831.7 | 6741.8 | 6698.6 | 6788.5 |
| 25° | 6021.9 | 6072.3 | 6255.8 | 6579.8 | 6946.9 | 7166.5 | 7234.9 | 7288.9 | 7144.9 | 6982.9 | 6993.7 |
| 27.5° | 6497.0 | 6533.0 | 6713.0 | 7058.5 | 7425.7 | 7674.0 | 7735.2 | 7828.8 | 7638.0 | 7378.9 | 7306.9 |
| 30° | 7062.1 | 7098.1 | 7288.9 | 7652.4 | 8016.0 | 8228.3 | 8321.9 | 8437.1 | 8228.3 | 7904.4 | 7821.6 |
| 32.5° | 7724.4 | 7760.4 | 8005.2 | 8379.5 | 8678.3 | 8908.6 | 8998.6 | 9121.0 | 8955.4 | 8591.9 | 8498.3 |
| 35° | 8516.3 | 8537.9 | 8825.8 | 9232.6 | 9549.3 | 9772.5 | 9833.7 | 9977.7 | 9794.1 | 9430.5 | 9380.1 |
| 37.5° | 9434.1 | 9459.3 | 9772.5 | 10244.0 | 10568.0 | 10816.3 | 10913.5 | 10953.1 | 10729.9 | 10323.2 | 10283.6 |
| 40° | 10442.0 | 10524.8 | 10830.7 | 11338.2 | 11701.8 | 12014.9 | 12101.3 | 11968.1 | 11655.0 | 11100.7 | 11028.7 |
| 42.5° | 11493.0 | 11565.0 | 11907.0 | 12457.7 | 12878.8 | 13199.2 | 13202.8 | 12914.8 | 12382.1 | 11615.4 | 11507.4 |
| 45° | 12367.7 | 12396.5 | 12839.2 | 13393.5 | 13911.8 | 14138.6 | 14160.2 | 13638.3 | 12835.6 | 11914.2 | 11683.8 |
| 47.5° | 12968.8 | 13015.6 | 13400.7 | 13933.4 | 14505.8 | 14710.9 | 14667.7 | 14016.2 | 13051.6 | 12108.5 | 11727.0 |
| 50° | 12976.0 | 13055.2 | 13472.7 | 13987.4 | 14541.7 | 14790.1 | 14728.9 | 14124.2 | 13174.0 | 12115.7 | 11622.6 |
| 52.5° | 11827.8 | 11957.3 | 12637.6 | 13382.7 | 14232.2 | 14656.9 | 14671.3 | 14264.6 | 13127.2 | 12000.5 | 11529.0 |
| 55° | 8923.0 | 9063.4 | 9920.1 | 11190.7 | 12832.0 | 14016.2 | 14221.4 | 14099.0 | 13073.2 | 12050.9 | 11694.6 |
| 57.5° | 4722.5 | 4614.5 | 5089.6 | 6349.4 | 8411.9 | 10506.8 | 11107.9 | 12086.9 | 12472.1 | 12112.1 | 12000.5 |
| 60° | 1029.4 | 1097.8 | 1461.4 | 1968.9 | 3282.7 | 4942.0 | 5528.7 | 7206.1 | 9200.2 | 10085.6 | 10726.3 |
| 62.5° | 442.7 | 435.5 | 453.5 | 514.7 | 752.3 | 1252.6 | 1529.8 | 2498.0 | 3941.4 | 5413.6 | 6410.6 |
| 65° | 363.5 | 367.1 | 381.5 | 381.5 | 356.3 | 359.9 | 377.9 | 572.3 | 921.5 | 1292.2 | 1734.9 |
| 67.5° | 273.6 | 277.2 | 302.4 | 309.6 | 291.6 | 259.2 | 255.6 | 216.0 | 226.8 | 284.4 | 295.2 |
| 70° | 172.8 | 172.8 | 187.2 | 194.4 | 194.4 | 180.0 | 176.4 | 154.8 | 151.2 | 172.8 | 194.4 |
| 72.5° | 93.6 | 93.6 | 100.8 | 104.4 | 100.8 | 97.2 | 97.2 | 93.6 | 90.0 | 104.4 | 133.2 |
| 75° | 39.6 | 39.6 | 43.2 | 43.2 | 39.6 | 39.6 | 39.6 | 39.6 | 39.6 | 46.8 | 72.0 |
| 77.5° | 7.2 | 10.8 | 14.4 | 10.8 | 7.2 | 7.2 | 7.2 | 10.8 | 10.8 | 14.4 | 21.6 |
| 80° | 3.6 | 3.6 | 7.2 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 | 3.6 | 3.6 |
| 82.5° | 3.6 | 3.6 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 |
| 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° | 4628.9 | 4628.9 | 4628.9 | 4628.9 | 4628.9 | 4628.9 | 4628.9 | 4628.9 | 4628.9 | 4628.9 | 4628.9 |
| 2.5° | 4708.1 | 4668.5 | 4682.9 | 4690.1 | 4679.3 | 4672.1 | 4632.5 | 4621.7 | 4603.7 | 4574.9 | 4567.7 |
| 5° | 4866.4 | 4834.1 | 4830.5 | 4808.9 | 4758.5 | 4697.3 | 4621.7 | 4589.3 | 4553.3 | 4517.3 | 4510.1 |
| 7.5° | 5132.8 | 5093.2 | 5068.0 | 4996.0 | 4880.8 | 4783.7 | 4657.7 | 4589.3 | 4542.5 | 4495.7 | 4484.9 |
| 10° | 5474.8 | 5428.0 | 5356.0 | 5222.8 | 5068.0 | 4927.6 | 4780.1 | 4690.1 | 4618.1 | 4553.3 | 4549.7 |
| 12.5° | 5838.3 | 5787.9 | 5658.3 | 5489.2 | 5302.0 | 5172.4 | 4985.2 | 4859.2 | 4751.3 | 4654.1 | 4643.3 |
| 15° | 6219.8 | 6158.6 | 5982.3 | 5780.7 | 5607.9 | 5474.8 | 5269.6 | 5068.0 | 4902.4 | 4762.1 | 4747.7 |
| 17.5° | 6511.4 | 6435.8 | 6227.0 | 6075.9 | 5935.5 | 5798.7 | 5568.3 | 5302.0 | 5082.4 | 4913.2 | 4873.6 |
| 20° | 6695.0 | 6623.0 | 6425.0 | 6342.2 | 6277.4 | 6180.2 | 5906.7 | 5629.5 | 5384.8 | 5176.0 | 5140.0 |
| 22.5° | 6871.3 | 6784.9 | 6612.2 | 6612.2 | 6662.6 | 6623.0 | 6327.8 | 6011.1 | 5723.1 | 5482.0 | 5428.0 |
| 25° | 7069.3 | 7000.9 | 6878.5 | 6979.3 | 7105.3 | 7101.7 | 6799.3 | 6403.4 | 6072.3 | 5802.3 | 5748.3 |
| 27.5° | 7357.3 | 7288.9 | 7245.7 | 7436.4 | 7594.8 | 7584.0 | 7252.9 | 6824.5 | 6475.4 | 6209.0 | 6158.6 |
| 30° | 7864.8 | 7800.0 | 7753.2 | 7983.6 | 8185.1 | 8109.5 | 7746.0 | 7332.1 | 6979.3 | 6677.0 | 6641.0 |
| 32.5° | 8541.5 | 8473.1 | 8411.9 | 8642.3 | 8822.2 | 8725.0 | 8379.5 | 7990.8 | 7584.0 | 7288.9 | 7216.9 |
| 35° | 9430.5 | 9286.6 | 9225.4 | 9498.9 | 9574.5 | 9466.5 | 9135.4 | 8793.4 | 8361.5 | 8023.2 | 7976.4 |
| 37.5° | 10348.4 | 10179.2 | 10136.0 | 10373.6 | 10496.0 | 10456.4 | 10067.6 | 9711.3 | 9243.4 | 8869.0 | 8815.0 |
| 40° | 11133.1 | 10978.3 | 10902.7 | 11273.5 | 11550.6 | 11575.8 | 11226.7 | 10791.1 | 10240.4 | 9851.7 | 9754.5 |
| 42.5° | 11593.8 | 11460.6 | 11442.6 | 12018.5 | 12472.1 | 12796.0 | 12378.5 | 11928.6 | 11349.0 | 10909.9 | 10830.7 |
| 45° | 11698.2 | 11611.8 | 11763.0 | 12518.9 | 13224.4 | 13814.7 | 13458.3 | 12983.2 | 12356.9 | 11892.6 | 11817.0 |
| 47.5° | 11687.4 | 11658.6 | 11928.6 | 12778.0 | 13670.7 | 14397.8 | 14221.4 | 13685.1 | 13080.4 | 12594.5 | 12522.5 |
| 50° | 11532.6 | 11536.2 | 11986.1 | 12907.6 | 13850.7 | 14556.1 | 14379.8 | 13883.1 | 13343.1 | 12864.4 | 12806.8 |
| 52.5° | 11471.4 | 11449.8 | 11878.2 | 12868.0 | 14034.2 | 14484.2 | 14088.2 | 13530.3 | 12929.2 | 12338.9 | 12252.5 |
| 55° | 11687.4 | 11633.4 | 11892.6 | 12835.6 | 14055.8 | 14444.6 | 13400.7 | 12191.3 | 10960.3 | 10262.0 | 10204.4 |
| 57.5° | 12011.3 | 11953.7 | 12076.1 | 12598.0 | 12929.2 | 12011.3 | 9862.5 | 7911.6 | 6644.6 | 6108.3 | 5874.3 |
| 60° | 10726.3 | 10686.7 | 10593.2 | 9963.3 | 8545.1 | 6446.6 | 4391.3 | 2800.4 | 2012.1 | 1626.9 | 1626.9 |
| 62.5° | 6655.4 | 6601.4 | 6093.9 | 4528.1 | 3289.9 | 1904.1 | 1047.4 | 655.1 | 496.7 | 464.3 | 460.7 |
| 65° | 1868.1 | 1857.3 | 1537.0 | 1087.0 | 691.1 | 428.3 | 377.9 | 385.1 | 377.9 | 367.1 | 363.5 |
| 67.5° | 280.8 | 309.6 | 309.6 | 252.0 | 241.2 | 270.0 | 316.8 | 338.3 | 320.4 | 302.4 | 295.2 |
| 70° | 180.0 | 194.4 | 187.2 | 162.0 | 172.8 | 201.6 | 226.8 | 230.4 | 219.6 | 201.6 | 198.0 |
| 72.5° | 126.0 | 140.4 | 115.2 | 104.4 | 108.0 | 118.8 | 129.6 | 129.6 | 126.0 | 118.8 | 111.6 |
| 75° | 75.6 | 75.6 | 54.0 | 50.4 | 50.4 | 54.0 | 54.0 | 61.2 | 61.2 | 57.6 | 54.0 |
| 77.5° | 25.2 | 28.8 | 18.0 | 14.4 | 14.4 | 14.4 | 18.0 | 21.6 | 21.6 | 18.0 | 14.4 |
| 80° | 3.6 | 7.2 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 7.2 | 7.2 | 3.6 |
| 82.5° | 3.6 | 3.6 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 | 3.6 | 3.6 | 3.6 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 | 3.6 |
| 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)