

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: P643303

Luminaire Tested: GWS-SA6E-760-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643303
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-SAGE-760-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40971.7 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

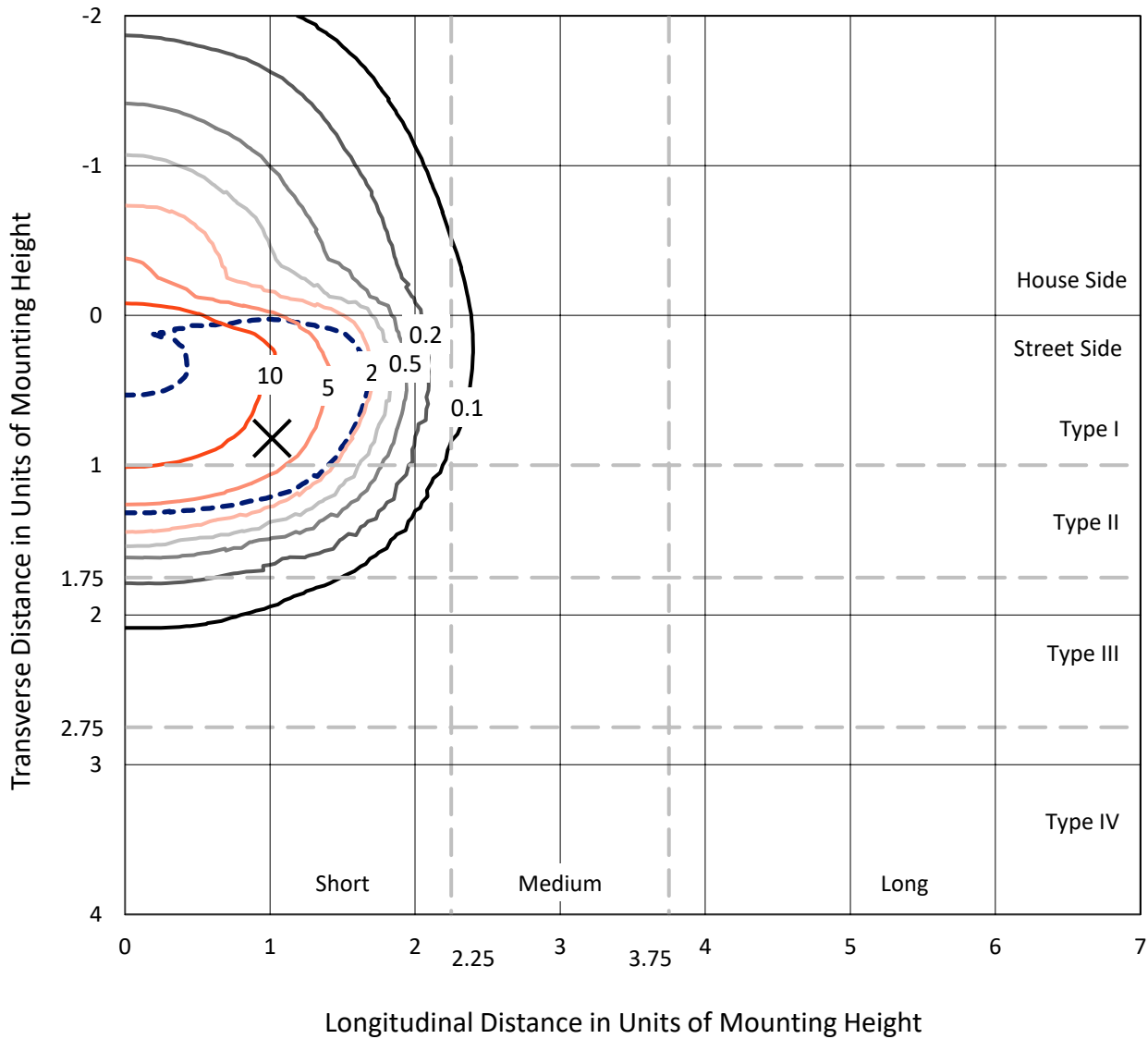
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

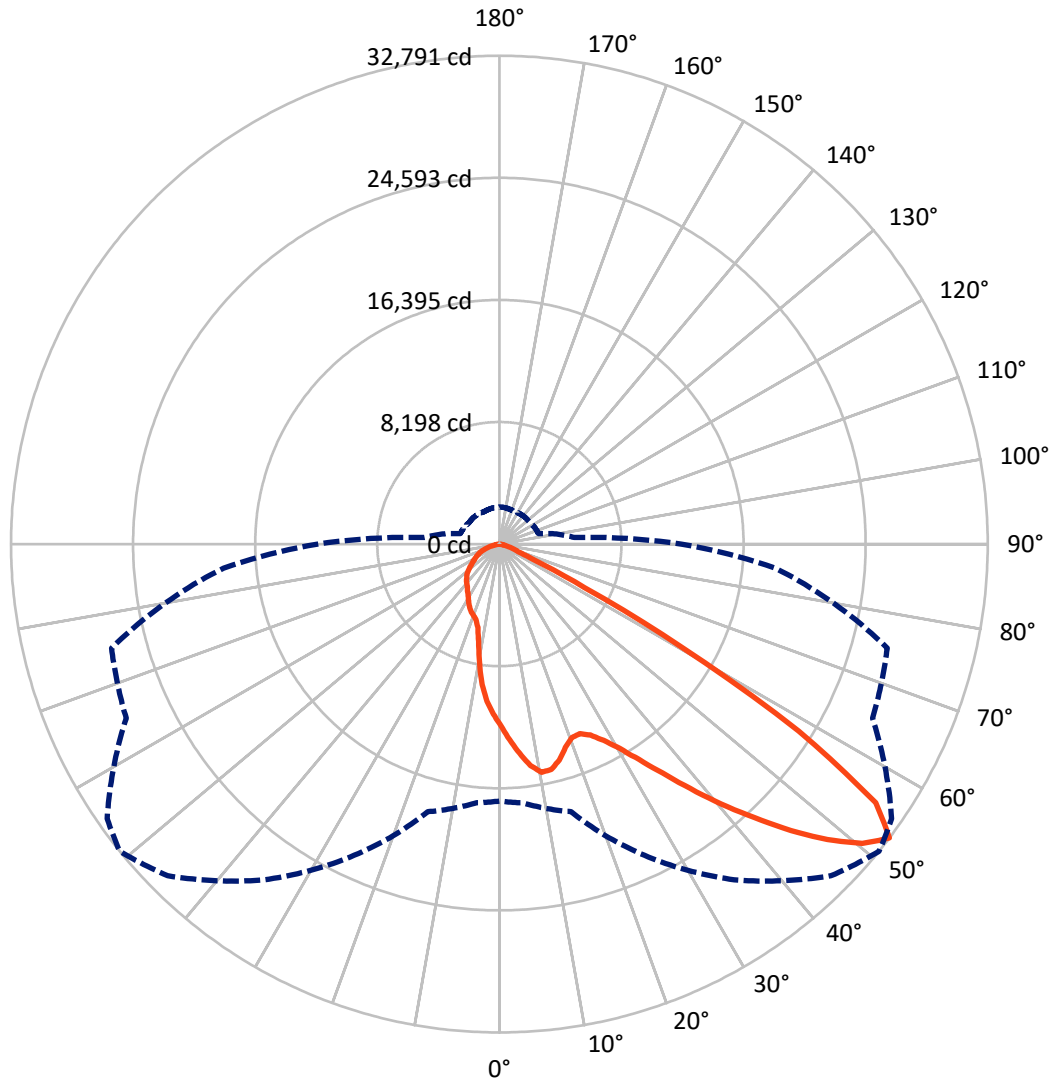
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.6 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 | 7983.0 | 0.0 | 7983.0 |
| | % Fixture | 19.5 | 0.0 | 19.5 |
| Street Side | Lumens | 32988.7 | 0.0 | 32988.7 |
| | % Fixture | 80.5 | 0.0 | 80.5 |
| Total | Lumens | 40971.7 | 0.0 | 40971.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1138.4 | 2.8 |
| 10°-20° | 2957.9 | 7.2 |
| 20°-30° | 4809.3 | 11.7 |
| 30°-40° | 7621.7 | 18.6 |
| 40°-50° | 11495.2 | 28.1 |
| 50°-60° | 9944.3 | 24.3 |
| 60°-70° | 2254.5 | 5.5 |
| 70°-80° | 664.7 | 1.6 |
| 80°-90° | 85.6 | 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° | 40971.7 | 100.0 |
| 0°-180° | 40971.7 | 100.0 |

Coefficient of Utilization



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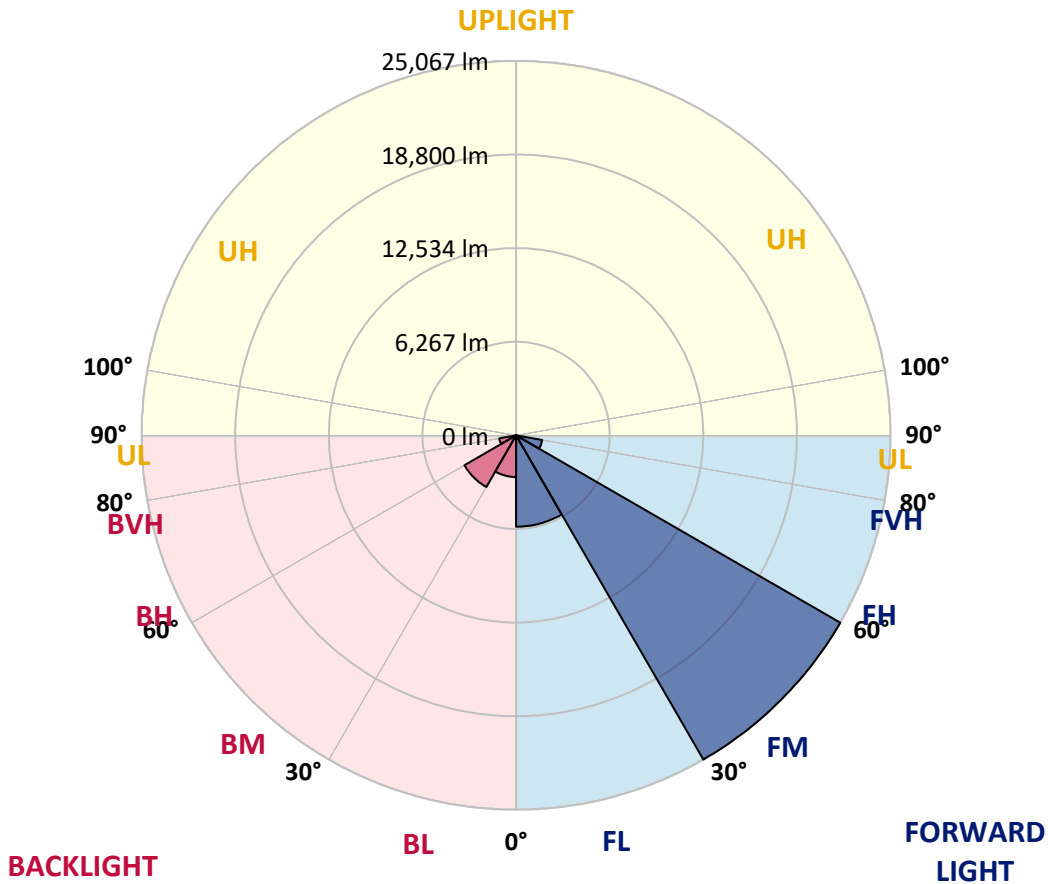
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 6115.1 | 14.9 | | | |
| FM (30°-60°) | 25067.1 | 61.2 | | | |
| FH (60°-80°) | 1774.2 | 4.3 | | | G1/1800 |
| FVH (80°-90°) | 32.3 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2790.5 | 6.8 | B4/5000 | | |
| BM (30°-60°) | 3994.2 | 9.7 | B3/5000 | | |
| BH (60°-80°) | 1145.0 | 2.8 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 53.4 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 51° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12199.3 | 12199.3 | 12199.3 | 12199.3 | 12199.3 | 12199.3 | 12199.3 | 12199.3 | 12199.3 | 12199.3 | 12199.3 |
| 2.5° | 13594.7 | 13672.4 | 13552.6 | 13507.3 | 13432.8 | 13303.3 | 13154.4 | 13112.3 | 12791.8 | 12581.4 | 12345.0 |
| 5° | 14961.0 | 15003.1 | 14906.0 | 14808.8 | 14624.3 | 14394.4 | 14106.3 | 14044.8 | 13462.0 | 12979.6 | 12477.8 |
| 7.5° | 15265.3 | 15249.1 | 15333.3 | 15388.4 | 15365.7 | 15275.0 | 15019.3 | 14899.5 | 14203.4 | 13439.3 | 12697.9 |
| 10° | 14060.9 | 13970.3 | 14281.1 | 14650.2 | 15093.7 | 15605.3 | 15576.1 | 15566.4 | 14961.0 | 14057.7 | 12979.6 |
| 12.5° | 12464.8 | 12419.5 | 12672.0 | 13135.0 | 13973.5 | 15106.7 | 15530.8 | 15861.1 | 15644.1 | 14647.0 | 13293.6 |
| 15° | 11551.8 | 11535.6 | 11707.2 | 12040.7 | 12707.6 | 14138.6 | 15045.2 | 15699.2 | 16230.1 | 15278.3 | 13627.1 |
| 17.5° | 11386.7 | 11396.4 | 11454.7 | 11645.7 | 12124.9 | 13303.3 | 14352.3 | 15265.3 | 16686.6 | 15971.1 | 14044.8 |
| 20° | 11869.1 | 11933.8 | 11833.5 | 11862.6 | 12121.6 | 13002.2 | 13879.6 | 14828.3 | 16978.0 | 16667.2 | 14494.8 |
| 22.5° | 12940.7 | 12918.1 | 12697.9 | 12568.4 | 12571.6 | 13186.8 | 13827.8 | 14624.3 | 17169.1 | 17343.9 | 14902.7 |
| 25° | 14154.8 | 14128.9 | 13866.7 | 13578.5 | 13397.2 | 13688.6 | 14200.2 | 14841.2 | 17340.6 | 17962.3 | 15229.7 |
| 27.5° | 15589.1 | 15508.2 | 15216.8 | 14847.7 | 14446.2 | 14572.5 | 14918.9 | 15427.2 | 17606.1 | 18570.9 | 15446.6 |
| 30° | 16978.0 | 17071.9 | 16654.3 | 16217.2 | 15793.1 | 15715.4 | 15916.1 | 16375.8 | 18146.8 | 19283.2 | 15705.7 |
| 32.5° | 18820.2 | 18787.9 | 18324.9 | 17755.1 | 17149.6 | 17091.3 | 17250.0 | 17670.9 | 19118.1 | 20267.4 | 16100.6 |
| 35° | 21050.9 | 21057.4 | 20400.2 | 19629.6 | 18768.4 | 18613.0 | 18878.5 | 19286.5 | 20565.3 | 21601.3 | 16725.5 |
| 37.5° | 23369.1 | 23359.4 | 22786.3 | 21912.2 | 20736.9 | 20516.7 | 20821.1 | 21125.4 | 22375.1 | 23417.6 | 17696.8 |
| 40° | 24994.4 | 25059.1 | 24790.4 | 24330.6 | 23216.9 | 22679.5 | 22948.2 | 23158.6 | 24343.6 | 25554.5 | 18975.6 |
| 42.5° | 25917.1 | 26014.2 | 26072.5 | 26347.7 | 25761.7 | 25188.6 | 25091.5 | 25201.6 | 26101.6 | 27539.1 | 20176.8 |
| 45° | 26114.6 | 26244.1 | 26668.2 | 27688.1 | 27914.7 | 27752.8 | 27435.5 | 27170.0 | 27412.9 | 28947.5 | 20963.5 |
| 47.5° | 25243.7 | 25470.3 | 26376.8 | 28160.7 | 29484.9 | 29993.2 | 29640.3 | 29235.6 | 28170.5 | 29310.1 | 20882.6 |
| 50° | 21792.4 | 22057.8 | 24100.8 | 27195.9 | 29708.3 | 31560.2 | 31592.6 | 30993.7 | 28079.8 | 28264.3 | 19866.0 |
| 52.5° | 17253.2 | 17434.5 | 18603.3 | 23055.0 | 27516.5 | 31495.5 | 32790.5 | 32149.5 | 27642.7 | 26956.4 | 18593.6 |
| 55° | 10311.8 | 10603.2 | 11694.3 | 15210.3 | 21436.2 | 27914.7 | 30673.1 | 30983.9 | 27429.0 | 25858.8 | 17725.9 |
| 57.5° | 3480.4 | 3622.9 | 4665.4 | 6718.0 | 12633.2 | 20439.0 | 23699.3 | 24962.0 | 24900.5 | 24181.7 | 16032.7 |
| 60° | 1657.7 | 1690.0 | 1900.5 | 2548.0 | 5057.1 | 10680.9 | 14028.6 | 15485.5 | 16812.9 | 16945.7 | 9975.1 |
| 62.5° | 1262.7 | 1282.1 | 1388.9 | 1528.2 | 2033.2 | 4500.3 | 6429.9 | 7543.6 | 8058.4 | 6915.5 | 3632.6 |
| 65° | 1055.5 | 1071.6 | 1152.6 | 1240.0 | 1382.5 | 1949.0 | 2467.1 | 2845.9 | 2564.2 | 1997.6 | 1732.1 |
| 67.5° | 880.6 | 893.6 | 955.1 | 1049.0 | 1146.1 | 1304.8 | 1369.5 | 1408.4 | 1476.4 | 1657.7 | 1592.9 |
| 70° | 689.6 | 702.6 | 767.3 | 848.3 | 942.1 | 981.0 | 1042.5 | 1081.4 | 1217.3 | 1450.4 | 1444.0 |
| 72.5° | 531.0 | 547.2 | 582.8 | 634.6 | 712.3 | 751.1 | 819.1 | 864.4 | 942.1 | 1129.9 | 1207.6 |
| 75° | 388.5 | 398.2 | 430.6 | 446.8 | 456.5 | 446.8 | 514.8 | 566.6 | 670.2 | 741.4 | 760.8 |
| 77.5° | 158.6 | 178.1 | 171.6 | 171.6 | 204.0 | 246.1 | 281.7 | 314.0 | 385.3 | 427.4 | 430.6 |
| 80° | 64.8 | 71.2 | 84.2 | 93.9 | 113.3 | 145.7 | 168.4 | 181.3 | 213.7 | 239.6 | 259.0 |
| 82.5° | 38.9 | 42.1 | 48.6 | 51.8 | 64.8 | 84.2 | 97.1 | 106.8 | 132.7 | 158.6 | 168.4 |
| 85° | 19.4 | 19.4 | 22.7 | 25.9 | 32.4 | 38.9 | 45.3 | 51.8 | 68.0 | 84.2 | 93.9 |
| 87.5° | 3.2 | 3.2 | 3.2 | 6.5 | 9.7 | 13.0 | 16.2 | 19.4 | 22.7 | 25.9 | 32.4 |
| 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° | 12199.3 | 12199.3 | 12199.3 | 12199.3 | 12199.3 | 12199.3 | 12199.3 | 12199.3 | 12199.3 | 12199.3 | 12199.3 |
| 2.5° | 12205.8 | 12031.0 | 11827.0 | 11665.1 | 11477.3 | 11338.1 | 11140.6 | 11017.6 | 10901.0 | 10803.9 | 10732.7 |
| 5° | 12218.7 | 11924.1 | 11500.0 | 11124.4 | 10735.9 | 10366.8 | 9988.0 | 9680.5 | 9405.3 | 9175.4 | 9156.0 |
| 7.5° | 12293.2 | 11869.1 | 11205.4 | 10548.1 | 9790.5 | 9058.8 | 8327.1 | 7731.4 | 7278.2 | 7041.8 | 6993.2 |
| 10° | 12419.5 | 11862.6 | 10904.3 | 9855.3 | 8563.5 | 7385.0 | 6517.3 | 6064.0 | 5801.8 | 5707.9 | 5675.5 |
| 12.5° | 12552.2 | 11846.4 | 10519.0 | 8877.5 | 7083.9 | 6051.1 | 5575.2 | 5520.1 | 5568.7 | 5575.2 | 5571.9 |
| 15° | 12714.1 | 11836.7 | 10033.4 | 7731.4 | 6002.5 | 5432.7 | 5465.1 | 5581.6 | 5695.0 | 5720.9 | 5720.9 |
| 17.5° | 12911.6 | 11814.0 | 9372.9 | 6611.2 | 5325.9 | 5312.9 | 5484.5 | 5639.9 | 5746.8 | 5766.2 | 5766.2 |
| 20° | 13118.8 | 11755.8 | 8560.2 | 5698.2 | 5050.7 | 5238.5 | 5423.0 | 5542.8 | 5617.3 | 5643.2 | 5646.4 |
| 22.5° | 13261.3 | 11600.4 | 7624.6 | 5021.5 | 4879.1 | 5096.0 | 5228.7 | 5351.8 | 5351.8 | 5287.0 | 5267.6 |
| 25° | 13290.4 | 11266.9 | 6611.2 | 4558.6 | 4675.1 | 4875.8 | 5011.8 | 4940.6 | 4807.9 | 4756.1 | 4752.8 |
| 27.5° | 13183.6 | 10781.2 | 5610.8 | 4228.3 | 4429.1 | 4629.8 | 4607.1 | 4503.5 | 4445.2 | 4393.4 | 4412.9 |
| 30° | 13054.0 | 10198.5 | 4743.1 | 3956.4 | 4144.1 | 4341.6 | 4263.9 | 4228.3 | 4186.2 | 4128.0 | 4140.9 |
| 32.5° | 12966.6 | 9547.7 | 4076.2 | 3745.9 | 3953.1 | 3985.5 | 4040.5 | 4037.3 | 3998.4 | 3888.4 | 3881.9 |
| 35° | 12992.5 | 8890.5 | 3629.4 | 3574.3 | 3794.5 | 3781.5 | 3885.1 | 3865.7 | 3597.0 | 3444.8 | 3435.1 |
| 37.5° | 13199.7 | 8259.1 | 3367.1 | 3438.3 | 3541.9 | 3622.9 | 3713.5 | 3480.4 | 3386.5 | 3289.4 | 3295.9 |
| 40° | 13594.7 | 7673.1 | 3224.7 | 3363.9 | 3389.8 | 3509.6 | 3299.1 | 3295.9 | 3253.8 | 3166.4 | 3163.1 |
| 42.5° | 14041.5 | 7177.8 | 3127.5 | 3328.3 | 3292.7 | 3315.3 | 3091.9 | 3117.8 | 3114.6 | 3059.5 | 3043.4 |
| 45° | 14313.5 | 6721.3 | 3049.8 | 3195.5 | 3205.2 | 2978.6 | 2910.6 | 2939.8 | 2955.9 | 2926.8 | 2923.6 |
| 47.5° | 14031.8 | 6196.8 | 2968.9 | 2991.6 | 3075.7 | 2826.4 | 2742.3 | 2745.5 | 2774.6 | 2777.9 | 2764.9 |
| 50° | 13241.8 | 5610.8 | 2871.8 | 2816.7 | 2761.7 | 2667.8 | 2590.1 | 2573.9 | 2603.0 | 2632.2 | 2641.9 |
| 52.5° | 12222.0 | 5050.7 | 2709.9 | 2625.7 | 2496.2 | 2496.2 | 2460.6 | 2408.8 | 2447.6 | 2486.5 | 2499.4 |
| 55° | 11474.1 | 4636.3 | 2480.0 | 2386.1 | 2243.7 | 2292.2 | 2285.8 | 2240.4 | 2292.2 | 2321.4 | 2331.1 |
| 57.5° | 9942.7 | 3726.5 | 2182.1 | 2153.0 | 2033.2 | 2091.5 | 2104.4 | 2046.2 | 2020.3 | 2026.7 | 2036.5 |
| 60° | 5902.2 | 2405.5 | 1968.5 | 1965.2 | 1858.4 | 1926.4 | 1965.2 | 1907.0 | 1829.3 | 1839.0 | 1851.9 |
| 62.5° | 2648.4 | 1839.0 | 1699.7 | 1686.8 | 1683.6 | 1771.0 | 1813.1 | 1758.0 | 1647.9 | 1657.7 | 1670.6 |
| 65° | 1667.4 | 1589.7 | 1476.4 | 1476.4 | 1528.2 | 1602.6 | 1635.0 | 1589.7 | 1463.4 | 1447.2 | 1460.2 |
| 67.5° | 1547.6 | 1479.6 | 1363.0 | 1340.4 | 1366.3 | 1427.8 | 1431.0 | 1343.6 | 1269.1 | 1256.2 | 1256.2 |
| 70° | 1388.9 | 1337.1 | 1223.8 | 1178.5 | 1168.8 | 1165.5 | 1155.8 | 1133.2 | 1084.6 | 1071.6 | 1078.1 |
| 72.5° | 1149.4 | 1113.7 | 1042.5 | 993.9 | 968.0 | 964.8 | 926.0 | 906.5 | 864.4 | 858.0 | 854.7 |
| 75° | 760.8 | 770.6 | 770.6 | 764.1 | 741.4 | 731.7 | 689.6 | 670.2 | 621.6 | 602.2 | 599.0 |
| 77.5° | 450.0 | 459.7 | 472.7 | 475.9 | 472.7 | 472.7 | 433.8 | 411.2 | 362.6 | 336.7 | 330.2 |
| 80° | 275.2 | 281.7 | 288.1 | 297.9 | 284.9 | 275.2 | 239.6 | 216.9 | 194.3 | 178.1 | 174.8 |
| 82.5° | 178.1 | 184.5 | 187.8 | 194.3 | 187.8 | 174.8 | 145.7 | 132.7 | 116.6 | 103.6 | 100.4 |
| 85° | 100.4 | 103.6 | 110.1 | 110.1 | 100.4 | 90.7 | 74.5 | 64.8 | 55.0 | 48.6 | 48.6 |
| 87.5° | 35.6 | 35.6 | 35.6 | 38.9 | 32.4 | 29.1 | 19.4 | 13.0 | 9.7 | 9.7 | 9.7 |
| 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)