

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: P643162

Luminaire Tested: GWS-SA6E-735-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643162
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-735-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44070.3 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B5 - U0 - G5

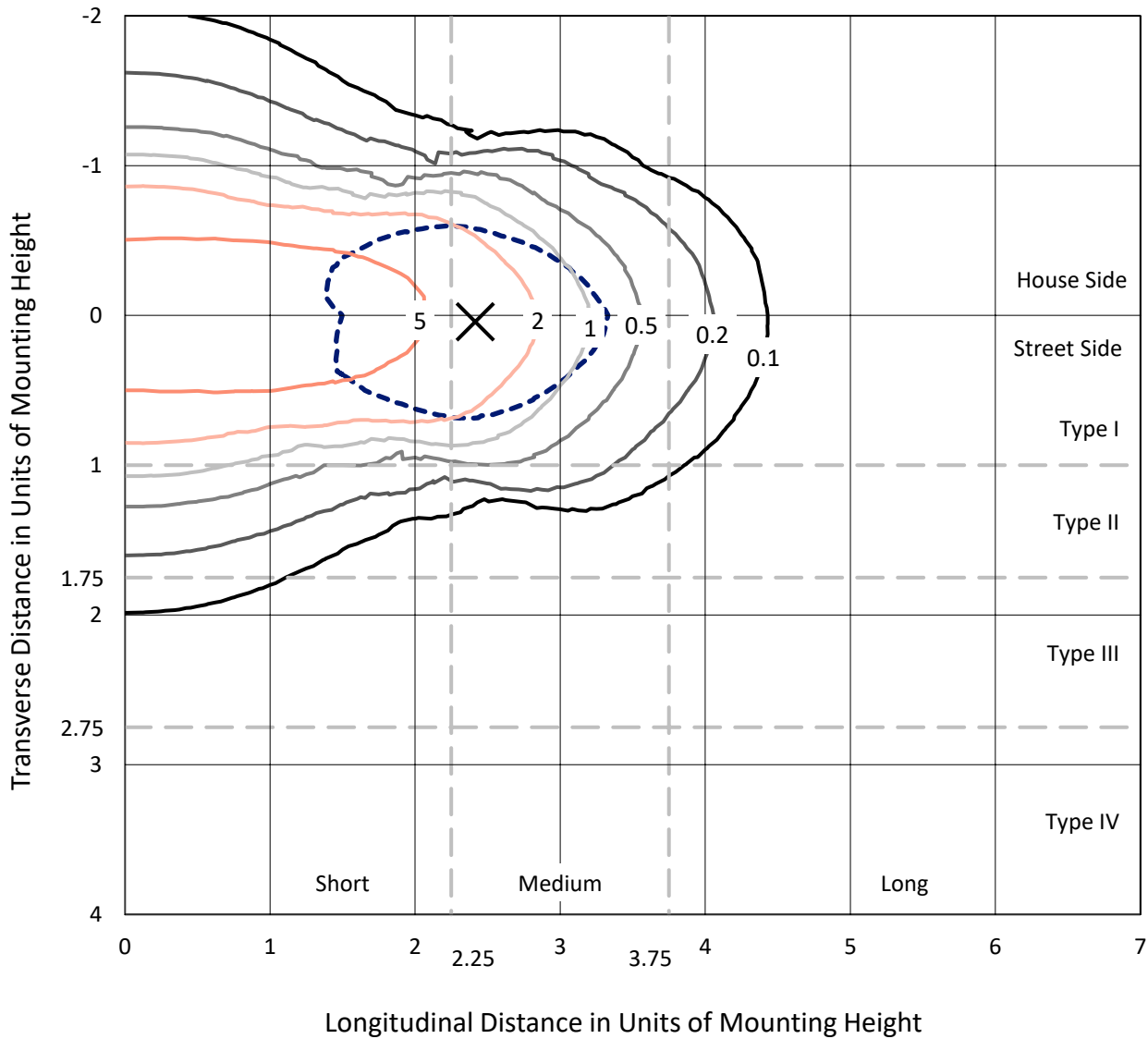
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

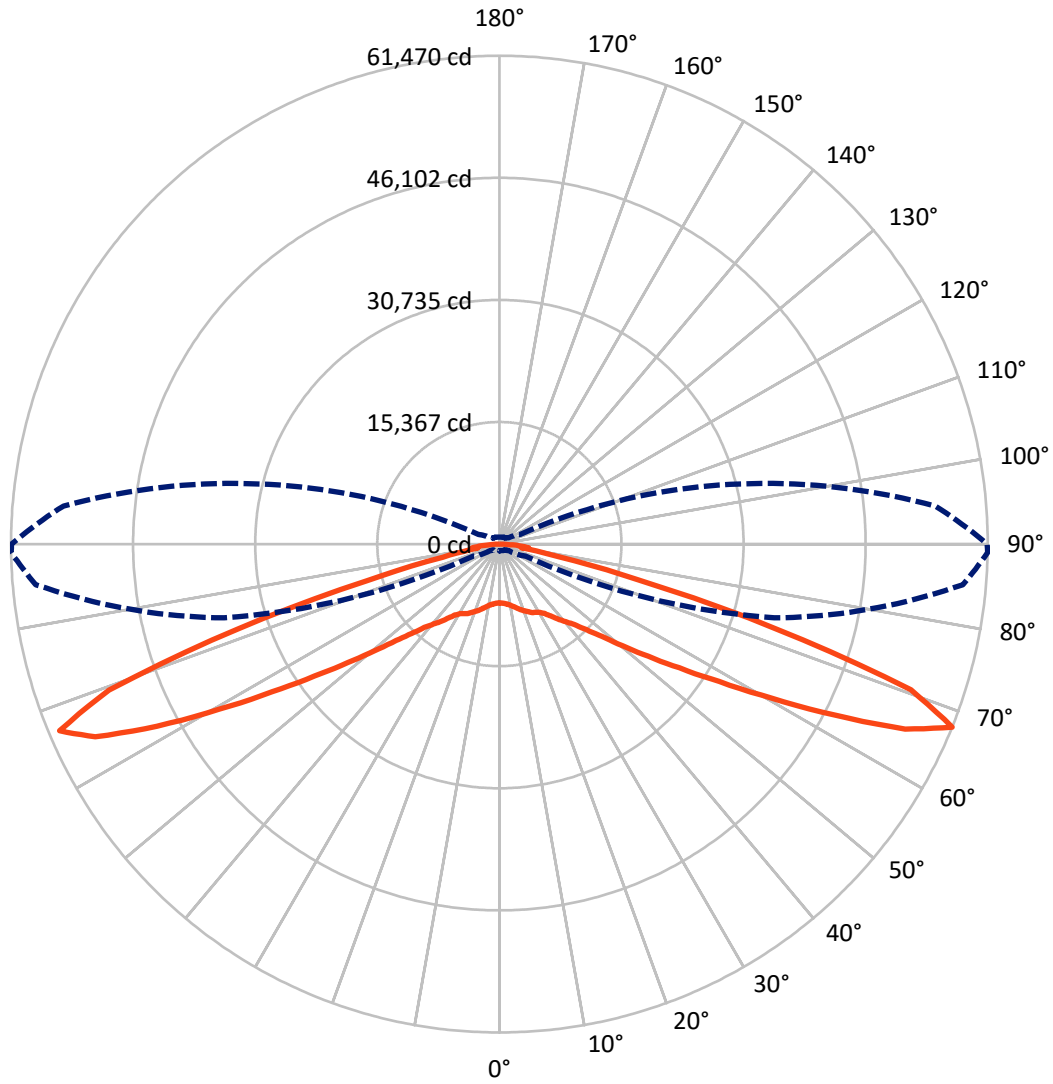
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 21842.0 | 0.0 | 21842.0 |
| | % Fixture | 49.6 | 0.0 | 49.6 |
| Street Side | Lumens | 22228.3 | 0.0 | 22228.3 |
| | % Fixture | 50.4 | 0.0 | 50.4 |
| Total | Lumens | 44070.3 | 0.0 | 44070.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 741.9 | 1.7 |
| 10°-20° | 2415.9 | 5.5 |
| 20°-30° | 4084.0 | 9.3 |
| 30°-40° | 5604.8 | 12.7 |
| 40°-50° | 7147.4 | 16.2 |
| 50°-60° | 8967.5 | 20.3 |
| 60°-70° | 10815.5 | 24.5 |
| 70°-80° | 3912.7 | 8.9 |
| 80°-90° | 380.5 | 0.9 |
| 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° | 44070.3 | 100.0 |
| 0°-180° | 44070.3 | 100.0 |

Coefficient of Utilization



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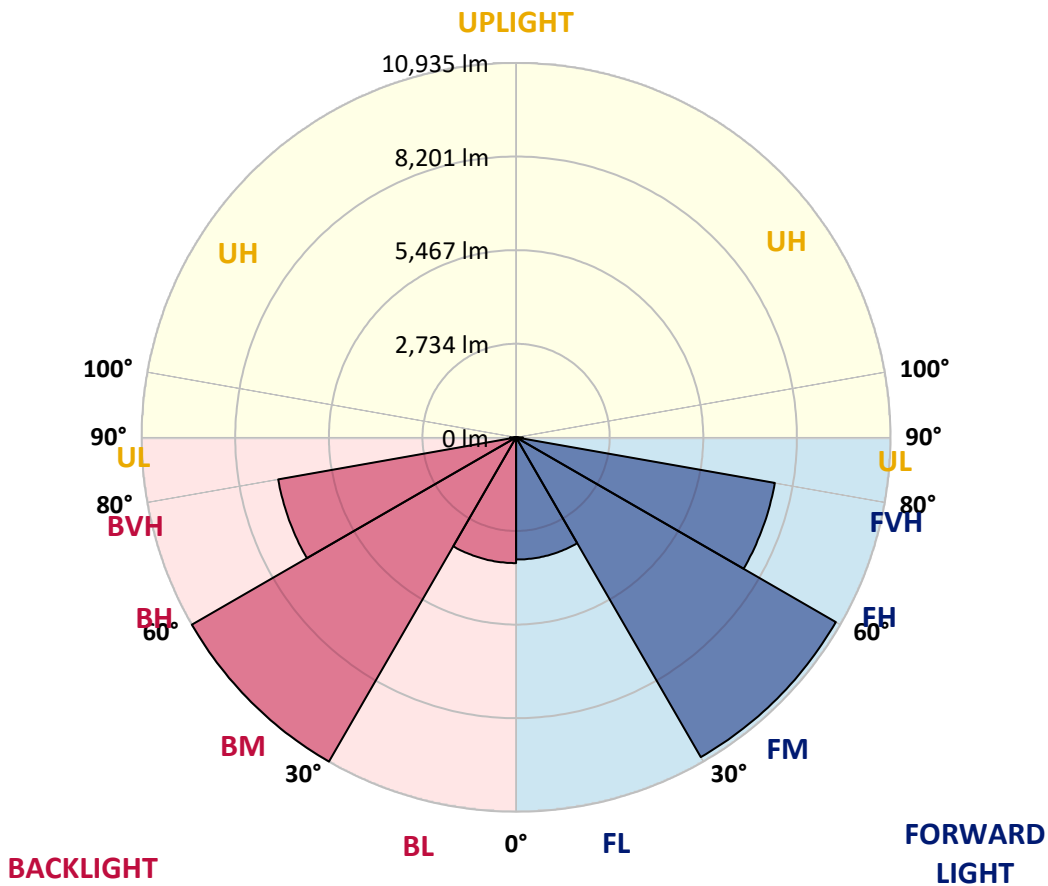
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3569.4 | 8.1 | | | |
| FM (30°-60°) | 10784.9 | 24.5 | | | |
| FH (60°-80°) | 7673.3 | 17.4 | | | G4/12000 |
| FVH (80°-90°) | 200.8 | 0.5 | | | G2/225 |
| BL (0°-30°) | 3672.6 | 8.3 | B4/5000 | | |
| BM (30°-60°) | 10934.8 | 24.8 | B5 | | |
| BH (60°-80°) | 7055.0 | 16.0 | B5 | | G5 |
| BVH (80°-90°) | 179.7 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type I Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 89° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 7396.8 | 7396.8 | 7396.8 | 7396.8 | 7396.8 | 7396.8 | 7396.8 | 7396.8 | 7396.8 | 7396.8 | 7396.8 |
| 2.5° | 7419.0 | 7412.7 | 7396.8 | 7444.3 | 7434.8 | 7438.0 | 7457.0 | 7444.3 | 7422.2 | 7384.2 | 7438.0 |
| 5° | 7627.9 | 7624.7 | 7589.9 | 7618.4 | 7586.8 | 7564.6 | 7561.4 | 7529.8 | 7504.5 | 7463.3 | 7520.3 |
| 7.5° | 7830.5 | 7827.3 | 7798.8 | 7849.5 | 7824.1 | 7798.8 | 7770.3 | 7707.0 | 7646.9 | 7586.8 | 7650.1 |
| 10° | 7985.6 | 7982.4 | 7976.1 | 8048.9 | 8055.2 | 8064.7 | 8052.0 | 7944.4 | 7840.0 | 7767.2 | 7830.5 |
| 12.5° | 8074.2 | 8083.7 | 8099.5 | 8232.4 | 8298.9 | 8362.2 | 8378.0 | 8289.4 | 8115.3 | 8010.9 | 8086.8 |
| 15° | 8014.0 | 8033.0 | 8112.2 | 8352.7 | 8536.3 | 8678.7 | 8738.8 | 8666.1 | 8441.3 | 8267.2 | 8352.7 |
| 17.5° | 7726.0 | 7741.8 | 7896.9 | 8264.1 | 8669.2 | 8998.4 | 9096.5 | 9052.2 | 8802.2 | 8590.1 | 8672.4 |
| 20° | 7327.2 | 7362.0 | 7529.8 | 8042.5 | 8647.1 | 9219.9 | 9482.6 | 9466.8 | 9194.6 | 8868.6 | 8966.7 |
| 22.5° | 6966.4 | 7007.5 | 7184.8 | 7751.3 | 8498.3 | 9276.9 | 9872.0 | 9913.1 | 9552.3 | 9147.1 | 9226.3 |
| 25° | 6561.3 | 6599.2 | 6827.1 | 7406.3 | 8241.9 | 9232.6 | 10204.3 | 10391.0 | 9957.4 | 9466.8 | 9539.6 |
| 27.5° | 6146.6 | 6175.1 | 6399.8 | 7017.0 | 7906.4 | 9150.3 | 10467.0 | 10916.4 | 10356.2 | 9688.4 | 9739.0 |
| 30° | 5782.6 | 5820.6 | 6026.4 | 6627.7 | 7539.3 | 8985.7 | 10682.2 | 11476.7 | 10815.2 | 9938.4 | 9979.6 |
| 32.5° | 5431.3 | 5463.0 | 5687.7 | 6244.7 | 7150.0 | 8732.5 | 10875.3 | 12135.0 | 11495.7 | 10403.7 | 10403.7 |
| 35° | 4988.2 | 5045.2 | 5298.4 | 5877.6 | 6782.8 | 8397.0 | 11014.6 | 12901.0 | 12426.2 | 11090.5 | 11093.7 |
| 37.5° | 4579.9 | 4611.6 | 4877.4 | 5463.0 | 6396.7 | 8017.2 | 11027.2 | 13695.4 | 13603.6 | 11964.1 | 11970.4 |
| 40° | 4114.6 | 4155.8 | 4440.6 | 5019.9 | 5953.6 | 7618.4 | 10906.9 | 14436.0 | 14838.0 | 12863.0 | 12828.2 |
| 42.5° | 3643.0 | 3703.2 | 3975.4 | 4541.9 | 5475.6 | 7131.0 | 10587.3 | 15141.9 | 16404.7 | 13904.3 | 13818.8 |
| 45° | 3187.3 | 3225.2 | 3497.4 | 4032.3 | 4928.1 | 6548.6 | 10074.5 | 15819.2 | 18265.8 | 15486.8 | 15363.4 |
| 47.5° | 2674.5 | 2690.3 | 2972.0 | 3484.8 | 4361.5 | 5899.8 | 9340.2 | 16423.7 | 20310.5 | 17582.1 | 17370.1 |
| 50° | 2218.7 | 2240.9 | 2462.4 | 2902.4 | 3668.4 | 5130.6 | 8425.5 | 16778.2 | 22915.3 | 20440.2 | 20073.1 |
| 52.5° | 1794.6 | 1816.8 | 1994.0 | 2345.3 | 3032.2 | 4253.9 | 7292.4 | 16695.9 | 25558.2 | 23988.3 | 23453.4 |
| 55° | 1449.6 | 1465.4 | 1585.7 | 1861.1 | 2386.5 | 3383.5 | 5953.6 | 15958.4 | 28492.3 | 28622.0 | 27469.9 |
| 57.5° | 1224.9 | 1231.2 | 1313.5 | 1481.3 | 1864.2 | 2608.0 | 4595.7 | 14217.6 | 31568.7 | 34534.4 | 32641.7 |
| 60° | 1095.1 | 1098.3 | 1136.3 | 1240.7 | 1471.8 | 1990.8 | 3367.7 | 11445.0 | 34756.0 | 41931.3 | 39335.9 |
| 62.5° | 1012.8 | 1012.8 | 1044.5 | 1104.6 | 1221.7 | 1531.9 | 2475.1 | 8219.8 | 37044.4 | 49980.1 | 47400.6 |
| 65° | 933.7 | 933.7 | 955.9 | 1006.5 | 1069.8 | 1250.2 | 1857.9 | 5301.5 | 38168.0 | 56709.1 | 56136.3 |
| 67.5° | 832.4 | 835.6 | 851.4 | 905.2 | 962.2 | 1044.5 | 1408.5 | 3586.1 | 35835.3 | 58570.2 | 61469.5 |
| 70° | 737.5 | 740.6 | 762.8 | 797.6 | 845.1 | 902.1 | 1101.5 | 2471.9 | 26083.6 | 48780.6 | 54962.0 |
| 72.5° | 633.0 | 645.7 | 661.5 | 699.5 | 728.0 | 769.1 | 898.9 | 1601.5 | 15176.7 | 31378.8 | 36332.2 |
| 75° | 519.1 | 534.9 | 553.9 | 591.9 | 610.9 | 626.7 | 740.6 | 1142.6 | 7301.9 | 15901.5 | 18107.6 |
| 77.5° | 402.0 | 417.8 | 439.9 | 474.8 | 487.4 | 506.4 | 566.6 | 826.1 | 3497.4 | 7048.7 | 7599.4 |
| 80° | 269.0 | 275.4 | 294.4 | 335.5 | 357.7 | 370.3 | 417.8 | 563.4 | 1519.2 | 2829.6 | 2804.3 |
| 82.5° | 164.6 | 167.8 | 174.1 | 199.4 | 208.9 | 221.6 | 272.2 | 345.0 | 724.8 | 3215.7 | 3687.3 |
| 85° | 60.1 | 57.0 | 53.8 | 69.6 | 82.3 | 95.0 | 126.6 | 174.1 | 316.5 | 2209.2 | 2471.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 3.2 | 6.3 | 6.3 | 12.7 | 25.3 | 76.0 | 826.1 | 566.6 |
| 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° | 7396.8 | 7396.8 | 7396.8 | 7396.8 | 7396.8 | 7396.8 | 7396.8 | 7396.8 | 7396.8 | 7396.8 | 7396.8 |
| 2.5° | 7422.2 | 7387.3 | 7431.7 | 7463.3 | 7532.9 | 7558.3 | 7564.6 | 7542.4 | 7542.4 | 7504.5 | 7510.8 |
| 5° | 7507.6 | 7485.5 | 7558.3 | 7612.1 | 7713.4 | 7751.3 | 7776.7 | 7760.8 | 7770.3 | 7745.0 | 7751.3 |
| 7.5° | 7637.4 | 7618.4 | 7745.0 | 7849.5 | 7953.9 | 7998.2 | 8020.4 | 8007.7 | 8010.9 | 7979.2 | 7988.7 |
| 10° | 7817.8 | 7824.1 | 7976.1 | 8112.2 | 8251.4 | 8295.7 | 8305.2 | 8267.2 | 8235.6 | 8178.6 | 8181.8 |
| 12.5° | 8064.7 | 8096.3 | 8311.6 | 8463.5 | 8605.9 | 8669.2 | 8599.6 | 8460.3 | 8330.6 | 8232.4 | 8219.8 |
| 15° | 8333.7 | 8390.7 | 8700.9 | 8893.9 | 9049.0 | 9017.4 | 8811.6 | 8498.3 | 8241.9 | 8096.3 | 8067.8 |
| 17.5° | 8656.6 | 8742.0 | 9131.3 | 9362.4 | 9495.3 | 9292.7 | 8862.3 | 8393.9 | 8036.2 | 7840.0 | 7802.0 |
| 20° | 8960.4 | 9096.5 | 9587.1 | 9887.8 | 9903.6 | 9447.8 | 8840.1 | 8181.8 | 7732.3 | 7491.8 | 7441.2 |
| 22.5° | 9238.9 | 9413.0 | 10065.0 | 10448.0 | 10242.3 | 9517.5 | 8704.0 | 7881.1 | 7365.2 | 7083.5 | 7039.2 |
| 25° | 9542.8 | 9789.7 | 10622.1 | 10979.7 | 10580.9 | 9489.0 | 8419.2 | 7507.6 | 6922.1 | 6634.1 | 6602.4 |
| 27.5° | 9751.7 | 10061.9 | 11182.3 | 11524.1 | 10859.5 | 9327.6 | 8052.0 | 7099.3 | 6516.9 | 6244.7 | 6200.4 |
| 30° | 9992.2 | 10387.9 | 11799.5 | 12116.0 | 11030.4 | 9090.2 | 7659.5 | 6719.5 | 6140.3 | 5845.9 | 5814.3 |
| 32.5° | 10429.0 | 10925.9 | 12565.5 | 12742.7 | 11084.2 | 8795.8 | 7282.9 | 6352.4 | 5747.8 | 5453.5 | 5409.2 |
| 35° | 11131.7 | 11714.0 | 13641.6 | 13442.2 | 11043.0 | 8473.0 | 6925.2 | 5921.9 | 5345.9 | 5070.5 | 5026.2 |
| 37.5° | 12017.9 | 12742.7 | 14841.2 | 14072.0 | 10929.1 | 8118.5 | 6501.1 | 5561.1 | 4985.0 | 4706.5 | 4681.2 |
| 40° | 12844.0 | 13736.5 | 16186.3 | 14616.4 | 10698.0 | 7681.7 | 6092.8 | 5184.4 | 4595.7 | 4301.4 | 4244.4 |
| 42.5° | 13879.0 | 15065.9 | 17743.6 | 15088.0 | 10318.2 | 7159.5 | 5633.9 | 4719.2 | 4108.3 | 3842.4 | 3772.8 |
| 45° | 15452.0 | 16927.0 | 19554.0 | 15540.7 | 9751.7 | 6516.9 | 5057.8 | 4152.6 | 3573.4 | 3301.2 | 3247.4 |
| 47.5° | 17414.4 | 19253.3 | 21516.4 | 15809.7 | 8890.8 | 5839.6 | 4405.8 | 3554.4 | 2975.2 | 2668.2 | 2642.9 |
| 50° | 20171.2 | 22636.8 | 23621.2 | 15762.2 | 7928.6 | 5035.7 | 3671.5 | 2842.3 | 2358.0 | 2136.4 | 2101.6 |
| 52.5° | 23529.4 | 26884.4 | 25896.9 | 15192.5 | 6906.3 | 4121.0 | 2861.3 | 2231.4 | 1870.6 | 1712.3 | 1683.8 |
| 55° | 27742.1 | 31970.7 | 28292.9 | 13970.8 | 5614.9 | 3155.6 | 2247.2 | 1759.8 | 1512.9 | 1418.0 | 1405.3 |
| 57.5° | 32958.2 | 38557.3 | 30600.2 | 11913.4 | 4222.2 | 2408.6 | 1731.3 | 1452.8 | 1335.7 | 1278.7 | 1275.5 |
| 60° | 39842.3 | 45549.0 | 32603.7 | 9257.9 | 3022.7 | 1842.1 | 1430.6 | 1297.7 | 1205.9 | 1167.9 | 1164.8 |
| 62.5° | 48027.3 | 51898.2 | 33850.8 | 6304.9 | 2272.5 | 1468.6 | 1259.7 | 1177.4 | 1123.6 | 1101.5 | 1098.3 |
| 65° | 56440.1 | 55911.5 | 33255.7 | 4130.5 | 1725.0 | 1247.1 | 1129.9 | 1085.6 | 1038.2 | 1016.0 | 1016.0 |
| 67.5° | 61409.3 | 55063.3 | 28688.5 | 2867.6 | 1367.3 | 1095.1 | 1019.2 | 978.0 | 898.9 | 879.9 | 879.9 |
| 70° | 54392.3 | 44618.5 | 18803.9 | 2098.5 | 1107.8 | 959.0 | 886.2 | 829.3 | 797.6 | 778.6 | 775.5 |
| 72.5° | 35974.6 | 29033.5 | 9998.6 | 1455.9 | 924.2 | 816.6 | 750.1 | 728.0 | 690.0 | 671.0 | 667.8 |
| 75° | 17905.0 | 15249.5 | 5124.3 | 1050.8 | 769.1 | 655.2 | 626.7 | 617.2 | 585.5 | 560.2 | 553.9 |
| 77.5° | 7463.3 | 6789.1 | 2389.7 | 762.8 | 585.5 | 528.6 | 503.3 | 503.3 | 468.4 | 439.9 | 427.3 |
| 80° | 2813.8 | 2506.8 | 1129.9 | 522.2 | 433.6 | 392.5 | 376.6 | 364.0 | 335.5 | 300.7 | 281.7 |
| 82.5° | 3763.3 | 2459.3 | 553.9 | 326.0 | 284.9 | 253.2 | 231.1 | 221.6 | 205.7 | 189.9 | 177.2 |
| 85° | 2437.1 | 1747.1 | 250.0 | 167.8 | 142.4 | 107.6 | 95.0 | 88.6 | 79.1 | 69.6 | 63.3 |
| 87.5° | 496.9 | 585.5 | 76.0 | 31.7 | 19.0 | 9.5 | 9.5 | 3.2 | 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)