

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: P636300

Luminaire Tested: GWS-SA3F-740-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-740-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15335.2 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

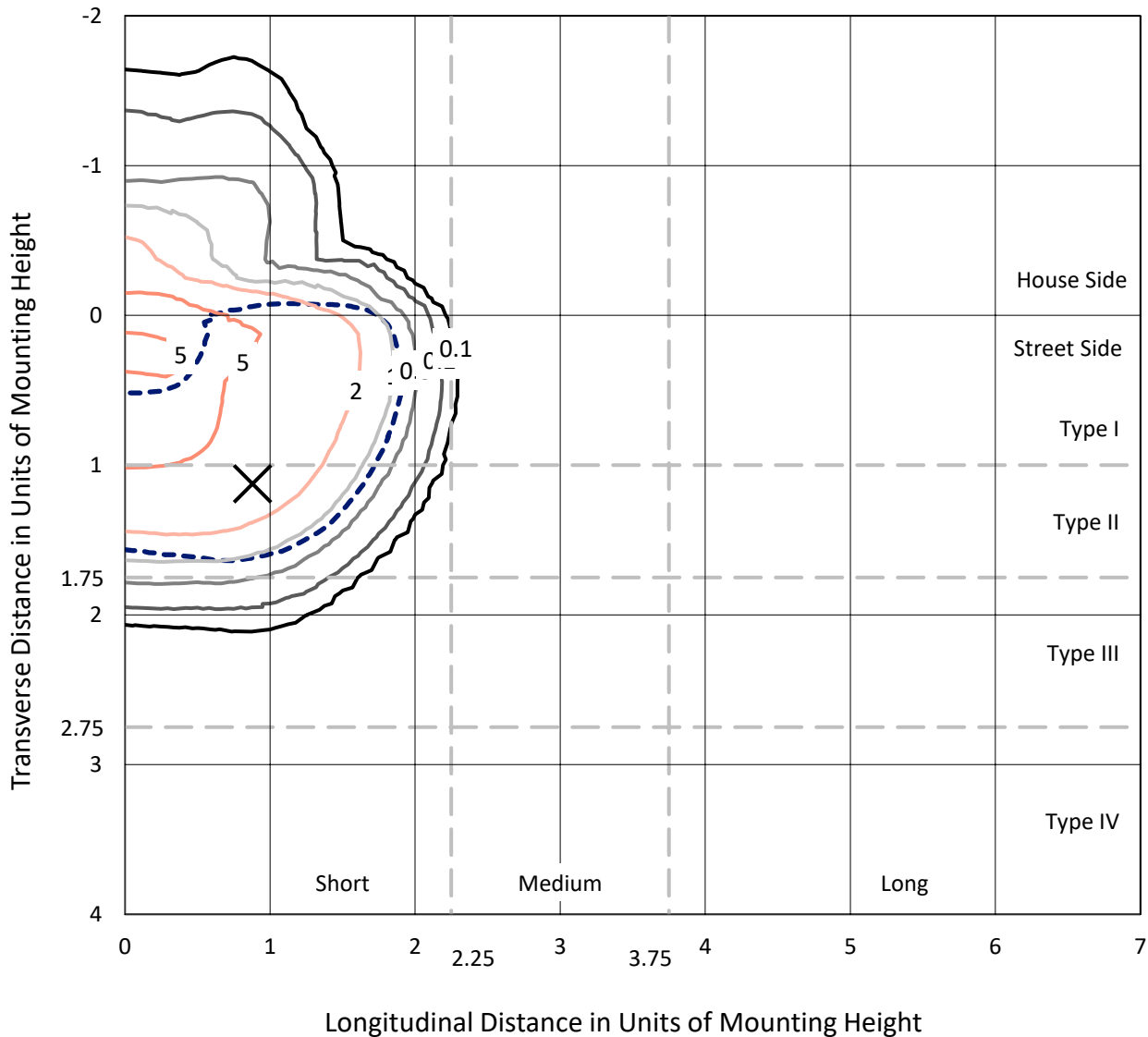
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

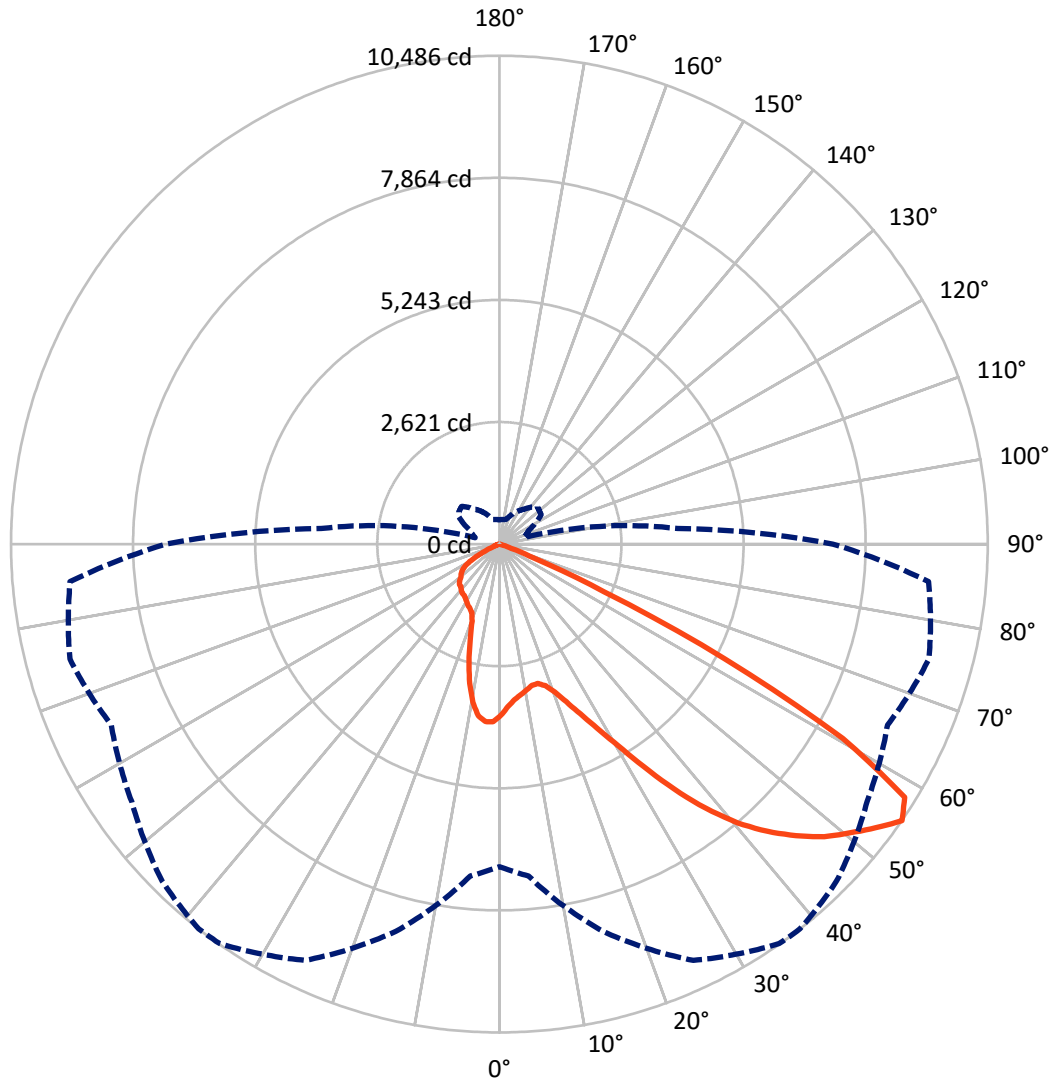
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2987.8 | 0.0 | 2987.8 |
| | % Fixture | 19.5 | 0.0 | 19.5 |
| Street Side | Lumens | 12347.4 | 0.0 | 12347.4 |
| | % Fixture | 80.5 | 0.0 | 80.5 |
| Total | Lumens | 15335.2 | 0.0 | 15335.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 340.0 | 2.2 |
| 10°-20° | 915.4 | 6.0 |
| 20°-30° | 1570.9 | 10.2 |
| 30°-40° | 2605.4 | 17.0 |
| 40°-50° | 3830.1 | 25.0 |
| 50°-60° | 4475.6 | 29.2 |
| 60°-70° | 1517.1 | 9.9 |
| 70°-80° | 77.6 | 0.5 |
| 80°-90° | 3.1 | 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° | 15335.2 | 100.0 |
| 0°-180° | 15335.2 | 100.0 |

Coefficient of Utilization



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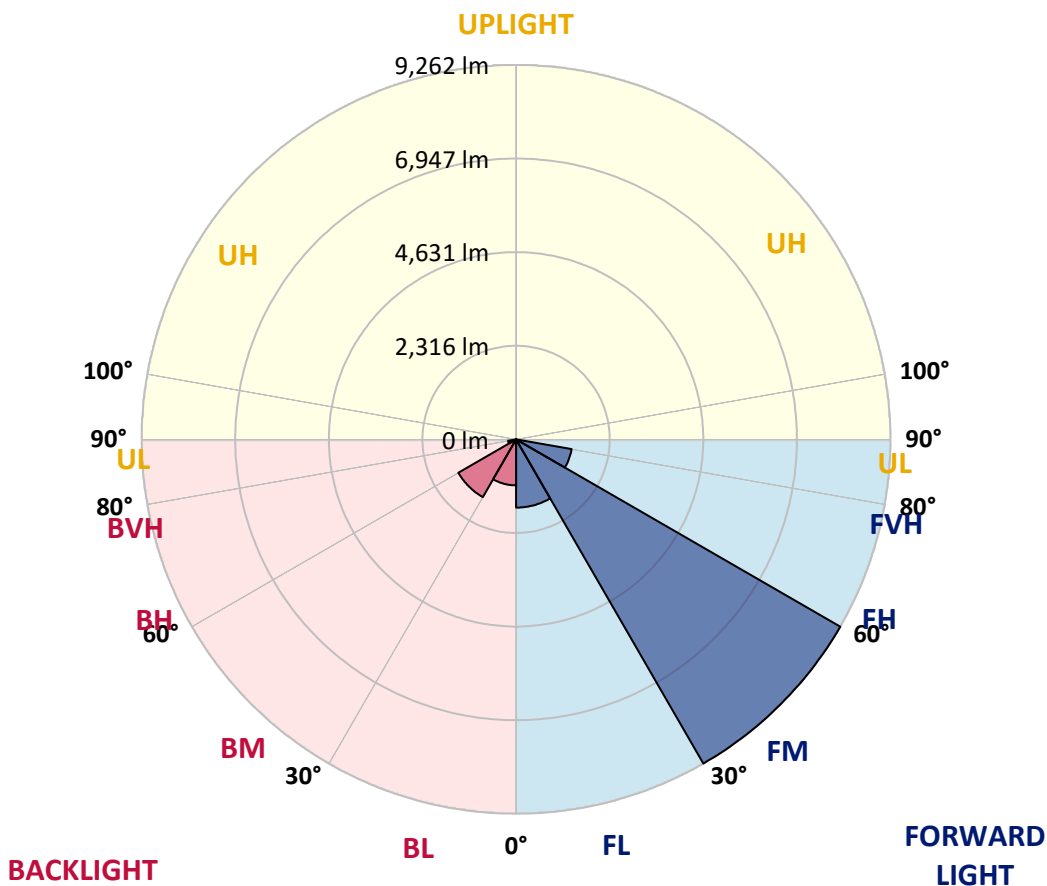
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1688.0 | 11.0 | | | |
| FM (30°-60°) | 9262.0 | 60.4 | | | |
| FH (60°-80°) | 1395.7 | 9.1 | | | G1/1800 |
| FVH (80°-90°) | 1.6 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1138.3 | 7.4 | B3/2500 | | |
| BM (30°-60°) | 1649.1 | 10.8 | B2/2500 | | |
| BH (60°-80°) | 198.9 | 1.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.4 | 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° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 3677.5 | 3677.5 | 3677.5 | 3677.5 | 3677.5 | 3677.5 | 3677.5 | 3677.5 | 3677.5 | 3677.5 | 3677.5 |
| 2.5° | 3425.1 | 3418.1 | 3432.1 | 3460.1 | 3486.4 | 3495.2 | 3521.5 | 3558.3 | 3581.1 | 3635.4 | 3679.3 |
| 5° | 3270.8 | 3267.3 | 3281.4 | 3305.9 | 3340.9 | 3353.2 | 3393.5 | 3454.9 | 3516.2 | 3610.9 | 3703.8 |
| 7.5° | 3130.6 | 3128.9 | 3149.9 | 3204.2 | 3255.1 | 3270.8 | 3319.9 | 3395.3 | 3477.7 | 3623.2 | 3759.9 |
| 10° | 2946.6 | 2948.3 | 2988.6 | 3065.8 | 3158.7 | 3190.2 | 3269.1 | 3377.8 | 3484.7 | 3672.2 | 3861.5 |
| 12.5° | 2887.0 | 2890.5 | 2911.5 | 2971.1 | 3072.8 | 3113.1 | 3223.5 | 3388.3 | 3525.0 | 3742.4 | 3993.0 |
| 15° | 3032.4 | 3032.4 | 3014.9 | 3021.9 | 3067.5 | 3104.3 | 3220.0 | 3423.3 | 3593.4 | 3826.5 | 4122.7 |
| 17.5° | 3314.7 | 3304.1 | 3260.3 | 3200.7 | 3184.9 | 3197.2 | 3290.1 | 3498.7 | 3689.8 | 3924.7 | 4270.0 |
| 20° | 3696.8 | 3700.3 | 3614.4 | 3489.9 | 3390.0 | 3388.3 | 3444.4 | 3631.9 | 3828.2 | 4042.1 | 4429.5 |
| 22.5° | 4159.5 | 4145.5 | 4031.6 | 3861.5 | 3688.0 | 3674.0 | 3696.8 | 3835.3 | 4028.1 | 4227.9 | 4625.8 |
| 25° | 4695.9 | 4688.9 | 4527.6 | 4299.8 | 4070.1 | 4036.8 | 4036.8 | 4173.6 | 4313.8 | 4492.6 | 4860.7 |
| 27.5° | 5256.8 | 5256.8 | 5100.8 | 4837.9 | 4532.9 | 4473.3 | 4464.5 | 4625.8 | 4718.7 | 4753.8 | 5058.8 |
| 30° | 5833.5 | 5826.5 | 5672.3 | 5402.3 | 5076.3 | 5014.9 | 4990.4 | 5109.6 | 5176.2 | 5071.0 | 5305.9 |
| 32.5° | 6419.0 | 6431.2 | 6275.2 | 6024.6 | 5733.6 | 5693.3 | 5617.9 | 5617.9 | 5672.3 | 5525.0 | 5695.0 |
| 35° | 7048.2 | 7044.7 | 6922.0 | 6752.0 | 6503.1 | 6457.5 | 6333.1 | 6138.5 | 6220.9 | 6156.0 | 6233.2 |
| 37.5° | 7603.9 | 7630.2 | 7570.6 | 7444.4 | 7242.8 | 7197.2 | 6992.2 | 6639.8 | 6702.9 | 6804.6 | 6873.0 |
| 40° | 8168.3 | 8189.4 | 8249.0 | 8208.6 | 7954.5 | 7870.3 | 7505.7 | 6927.3 | 6997.4 | 7346.2 | 7542.6 |
| 42.5° | 8722.2 | 8732.7 | 8853.7 | 8920.3 | 8580.2 | 8433.0 | 7894.9 | 7102.6 | 7176.2 | 7770.4 | 8114.0 |
| 45° | 9074.6 | 9097.3 | 9297.2 | 9500.5 | 9132.4 | 8930.8 | 8233.2 | 7327.0 | 7358.5 | 8064.9 | 8536.4 |
| 47.5° | 9060.5 | 9113.1 | 9488.2 | 9858.1 | 9607.4 | 9390.1 | 8639.8 | 7686.3 | 7633.7 | 8341.9 | 8815.1 |
| 50° | 8778.3 | 8841.4 | 9379.5 | 9966.8 | 9949.2 | 9747.6 | 9092.1 | 8206.9 | 8042.1 | 8587.3 | 8850.2 |
| 52.5° | 8192.9 | 8375.2 | 9188.5 | 9980.8 | 10224.4 | 10122.8 | 9651.2 | 8908.0 | 8594.3 | 8939.6 | 8906.3 |
| 55° | 6927.3 | 7151.7 | 8608.3 | 9861.6 | 10473.3 | 10485.6 | 10238.5 | 9639.0 | 9193.7 | 9546.1 | 9251.6 |
| 57.5° | 5258.6 | 5437.4 | 6625.8 | 8778.3 | 10061.4 | 10263.0 | 10466.3 | 10024.6 | 9563.6 | 9959.7 | 9332.2 |
| 60° | 3169.2 | 3376.0 | 4149.0 | 6441.8 | 8126.3 | 8469.8 | 9267.4 | 9181.5 | 8625.8 | 8795.8 | 7653.0 |
| 62.5° | 1284.8 | 1393.5 | 1915.9 | 3549.5 | 5114.8 | 5435.6 | 6199.9 | 6329.6 | 6192.9 | 6019.3 | 4641.6 |
| 65° | 469.8 | 513.6 | 767.8 | 1467.1 | 2352.3 | 2469.8 | 2872.9 | 3102.6 | 3291.9 | 2802.8 | 1726.6 |
| 67.5° | 291.0 | 319.0 | 499.6 | 753.7 | 855.4 | 795.8 | 809.8 | 965.8 | 922.0 | 569.7 | 308.5 |
| 70° | 215.6 | 238.4 | 390.9 | 522.4 | 345.3 | 266.4 | 180.5 | 192.8 | 173.5 | 152.5 | 150.7 |
| 72.5° | 149.0 | 170.0 | 292.7 | 308.5 | 133.2 | 94.7 | 66.6 | 92.9 | 105.2 | 103.4 | 106.9 |
| 75° | 98.2 | 113.9 | 184.1 | 120.9 | 33.3 | 26.3 | 22.8 | 49.1 | 63.1 | 63.1 | 64.9 |
| 77.5° | 57.8 | 66.6 | 64.9 | 24.5 | 7.0 | 7.0 | 5.3 | 8.8 | 14.0 | 15.8 | 19.3 |
| 80° | 7.0 | 5.3 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 5.3 | 5.3 | 5.3 |
| 82.5° | 1.8 | 1.8 | 1.8 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 5.3 | 5.3 |
| 85° | 0.0 | 0.0 | 1.8 | 1.8 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 5.3 | 5.3 |
| 87.5° | 0.0 | 0.0 | 1.8 | 1.8 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 5.3 | 5.3 |
| 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-SA3F-740-U-T3R-W-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3677.5 | 3677.5 | 3677.5 | 3677.5 | 3677.5 | 3677.5 | 3677.5 | 3677.5 | 3677.5 | 3677.5 | 3677.5 |
| 2.5° | 3712.6 | 3700.3 | 3751.1 | 3787.9 | 3817.7 | 3831.8 | 3812.5 | 3810.7 | 3810.7 | 3772.2 | 3761.6 |
| 5° | 3756.4 | 3761.6 | 3833.5 | 3865.1 | 3870.3 | 3852.8 | 3809.0 | 3779.2 | 3761.6 | 3721.3 | 3698.5 |
| 7.5° | 3840.5 | 3858.0 | 3926.4 | 3921.1 | 3873.8 | 3793.2 | 3677.5 | 3588.1 | 3530.3 | 3467.2 | 3428.6 |
| 10° | 3961.5 | 3994.8 | 4036.8 | 3963.2 | 3812.5 | 3607.4 | 3369.0 | 3199.0 | 3097.3 | 3025.4 | 2981.6 |
| 12.5° | 4108.7 | 4142.0 | 4128.0 | 3954.5 | 3640.7 | 3274.3 | 2967.6 | 2722.2 | 2604.7 | 2539.9 | 2494.3 |
| 15° | 4257.7 | 4278.7 | 4187.6 | 3849.3 | 3337.4 | 2844.9 | 2503.1 | 2259.4 | 2115.7 | 2063.1 | 2024.6 |
| 17.5° | 4410.2 | 4404.9 | 4198.1 | 3642.4 | 2932.5 | 2361.1 | 2024.6 | 1858.0 | 1817.7 | 1809.0 | 1805.4 |
| 20° | 4569.7 | 4522.4 | 4156.0 | 3346.2 | 2445.2 | 1882.6 | 1691.5 | 1702.0 | 1775.6 | 1810.7 | 1817.7 |
| 22.5° | 4752.0 | 4632.8 | 4050.9 | 2944.8 | 1947.4 | 1568.8 | 1588.1 | 1691.5 | 1791.4 | 1838.7 | 1845.8 |
| 25° | 4946.6 | 4734.5 | 3875.6 | 2429.5 | 1535.5 | 1442.6 | 1556.5 | 1675.7 | 1782.7 | 1840.5 | 1847.5 |
| 27.5° | 5074.5 | 4759.0 | 3588.1 | 1910.6 | 1318.2 | 1393.5 | 1514.5 | 1628.4 | 1738.8 | 1801.9 | 1810.7 |
| 30° | 5213.0 | 4748.5 | 3197.2 | 1472.4 | 1244.5 | 1351.5 | 1456.6 | 1560.0 | 1661.7 | 1731.8 | 1738.8 |
| 32.5° | 5416.3 | 4741.5 | 2720.4 | 1195.4 | 1214.7 | 1318.2 | 1395.3 | 1481.2 | 1551.3 | 1591.6 | 1586.3 |
| 35° | 5682.8 | 4732.7 | 2164.8 | 1078.0 | 1197.2 | 1291.9 | 1353.2 | 1393.5 | 1316.4 | 1291.9 | 1297.1 |
| 37.5° | 6024.6 | 4753.8 | 1696.8 | 1028.9 | 1191.9 | 1284.8 | 1337.4 | 1221.7 | 1102.5 | 1057.0 | 1050.0 |
| 40° | 6403.2 | 4808.1 | 1293.6 | 1009.6 | 1209.5 | 1302.4 | 1277.8 | 1086.8 | 939.5 | 850.1 | 830.9 |
| 42.5° | 6783.6 | 4867.7 | 1023.7 | 1002.6 | 1239.3 | 1351.5 | 1179.7 | 988.6 | 767.8 | 716.9 | 709.9 |
| 45° | 7065.8 | 4857.2 | 885.2 | 990.4 | 1265.6 | 1379.5 | 1153.4 | 848.4 | 685.4 | 662.6 | 664.3 |
| 47.5° | 7207.8 | 4741.5 | 809.8 | 962.3 | 1276.1 | 1351.5 | 1088.5 | 790.5 | 629.3 | 653.8 | 674.9 |
| 50° | 7132.4 | 4441.7 | 739.7 | 908.0 | 1253.3 | 1314.6 | 985.1 | 746.7 | 601.2 | 702.9 | 750.2 |
| 52.5° | 7041.2 | 4073.6 | 662.6 | 823.8 | 1199.0 | 1263.8 | 944.8 | 734.4 | 583.7 | 678.4 | 713.4 |
| 55° | 7162.2 | 3840.5 | 536.4 | 694.1 | 1092.0 | 1144.6 | 913.2 | 732.7 | 543.4 | 527.6 | 522.4 |
| 57.5° | 6992.2 | 3376.0 | 383.9 | 499.6 | 837.9 | 906.2 | 890.5 | 720.4 | 482.0 | 480.3 | 487.3 |
| 60° | 5404.1 | 2059.6 | 262.9 | 317.3 | 513.6 | 578.4 | 808.1 | 688.9 | 415.4 | 382.1 | 383.9 |
| 62.5° | 3071.0 | 876.4 | 180.5 | 196.3 | 262.9 | 312.0 | 617.0 | 625.8 | 383.9 | 364.6 | 383.9 |
| 65° | 1069.2 | 313.8 | 140.2 | 131.5 | 145.5 | 166.5 | 354.1 | 483.8 | 348.8 | 315.5 | 319.0 |
| 67.5° | 220.9 | 156.0 | 124.5 | 108.7 | 108.7 | 108.7 | 180.5 | 301.5 | 287.5 | 250.7 | 254.2 |
| 70° | 140.2 | 133.2 | 108.7 | 92.9 | 89.4 | 82.4 | 103.4 | 166.5 | 198.1 | 182.3 | 184.1 |
| 72.5° | 103.4 | 101.7 | 85.9 | 75.4 | 66.6 | 59.6 | 64.9 | 82.4 | 101.7 | 105.2 | 106.9 |
| 75° | 63.1 | 64.9 | 56.1 | 47.3 | 42.1 | 36.8 | 38.6 | 38.6 | 38.6 | 35.1 | 38.6 |
| 77.5° | 19.3 | 21.0 | 17.5 | 14.0 | 12.3 | 12.3 | 12.3 | 10.5 | 8.8 | 5.3 | 5.3 |
| 80° | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 3.5 | 3.5 | 1.8 | 1.8 | 0.0 | 0.0 |
| 82.5° | 5.3 | 5.3 | 5.3 | 5.3 | 3.5 | 3.5 | 1.8 | 1.8 | 0.0 | 0.0 | 0.0 |
| 85° | 5.3 | 5.3 | 5.3 | 5.3 | 3.5 | 3.5 | 1.8 | 1.8 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.3 | 5.3 | 5.3 | 5.3 | 3.5 | 3.5 | 1.8 | 1.8 | 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)