

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: P642843

Luminaire Tested: GWS-SA6D-760-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-760-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26532.4 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

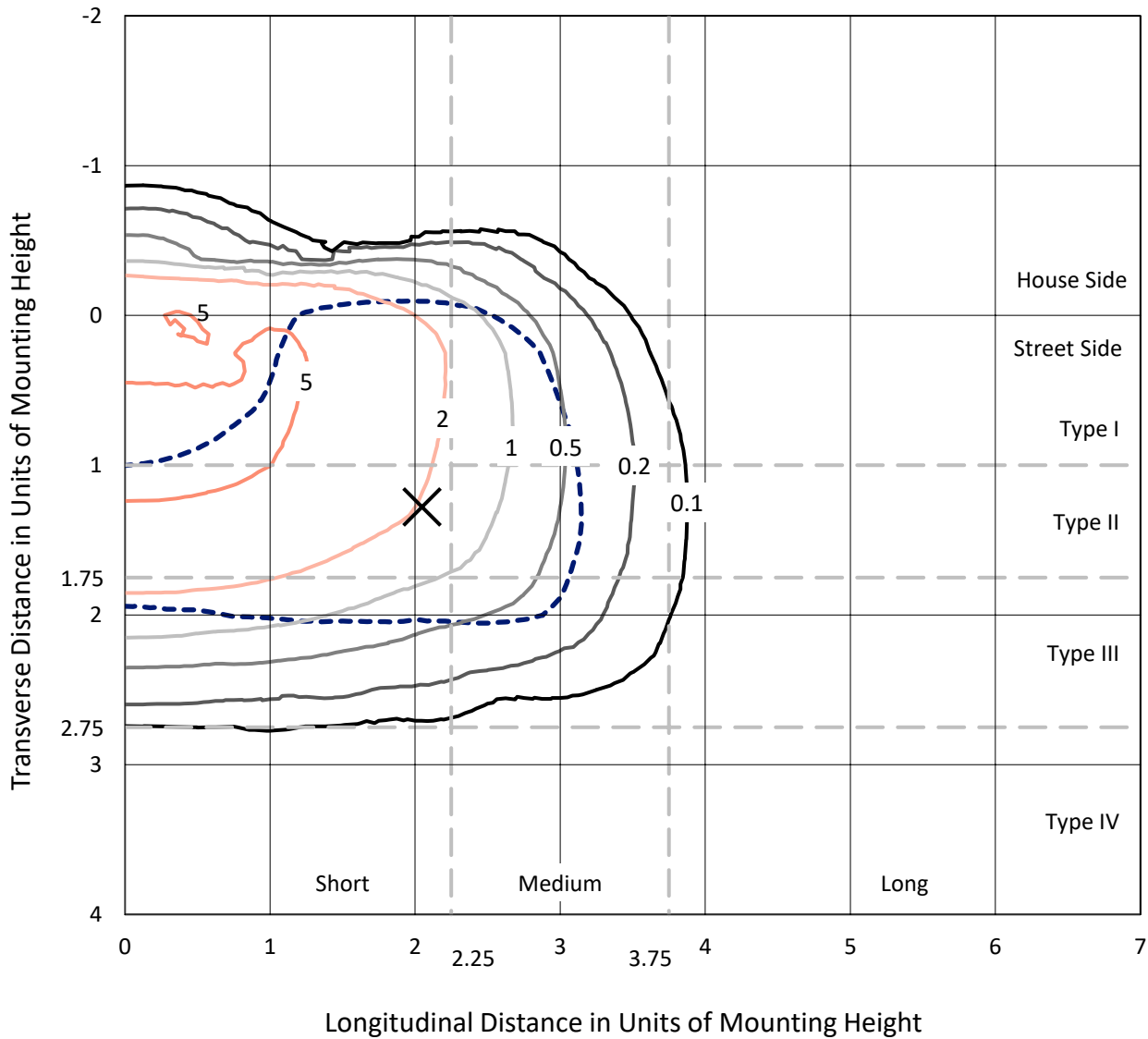
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

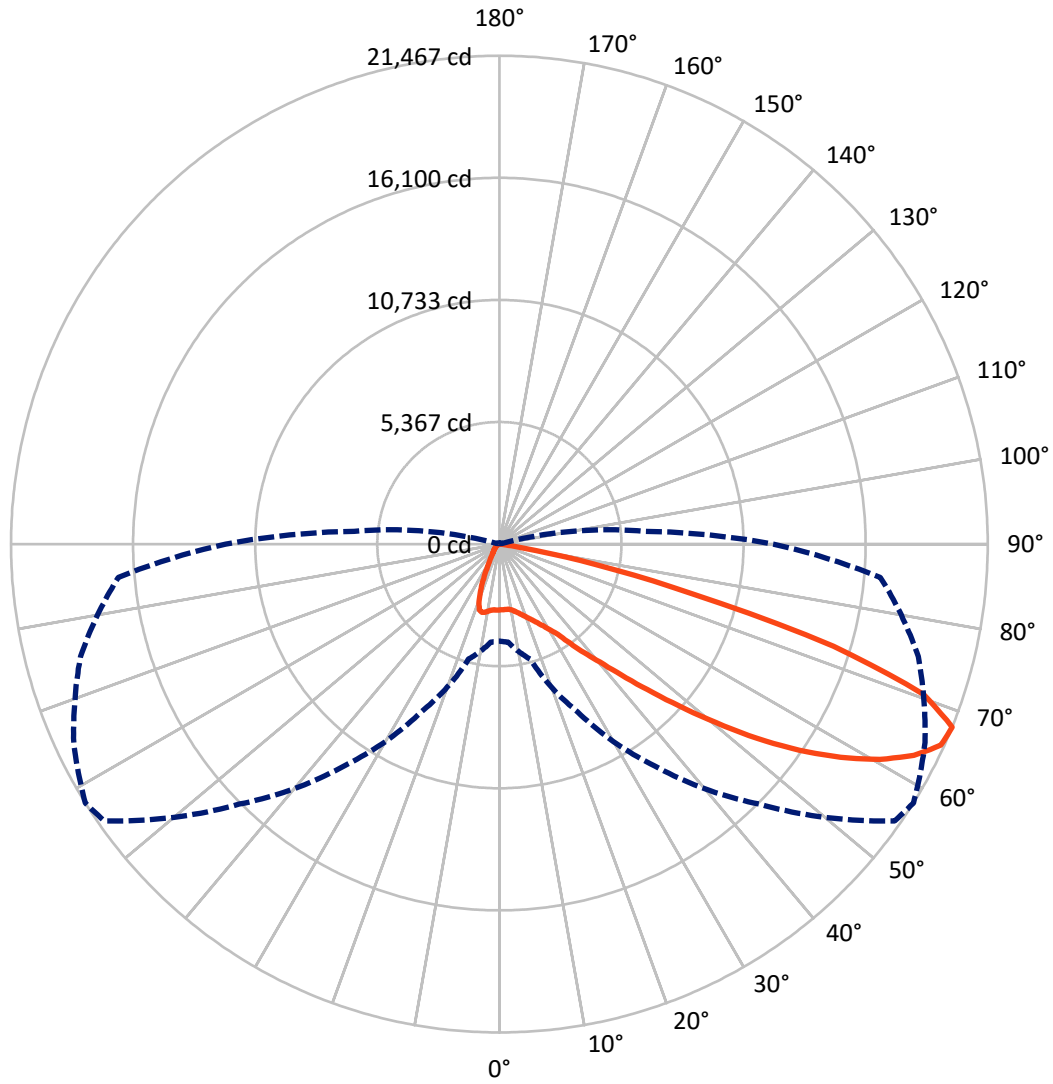
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

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CATALOG NUMBER: GWS-SA6D-760-U-T3-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2894.6 | 0.0 | 2894.6 |
| | % Fixture | 10.9 | 0.0 | 10.9 |
| Street Side | Lumens | 23637.8 | 0.0 | 23637.8 |
| | % Fixture | 89.1 | 0.0 | 89.1 |
| Total | Lumens | 26532.4 | 0.0 | 26532.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 271.6 | 1.0 |
| 10°-20° | 762.6 | 2.9 |
| 20°-30° | 1331.1 | 5.0 |
| 30°-40° | 2377.1 | 9.0 |
| 40°-50° | 4345.0 | 16.4 |
| 50°-60° | 7226.1 | 27.2 |
| 60°-70° | 7848.8 | 29.6 |
| 70°-80° | 2304.5 | 8.7 |
| 80°-90° | 65.6 | 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° | 26532.4 | 100.0 |
| 0°-180° | 26532.4 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P642843

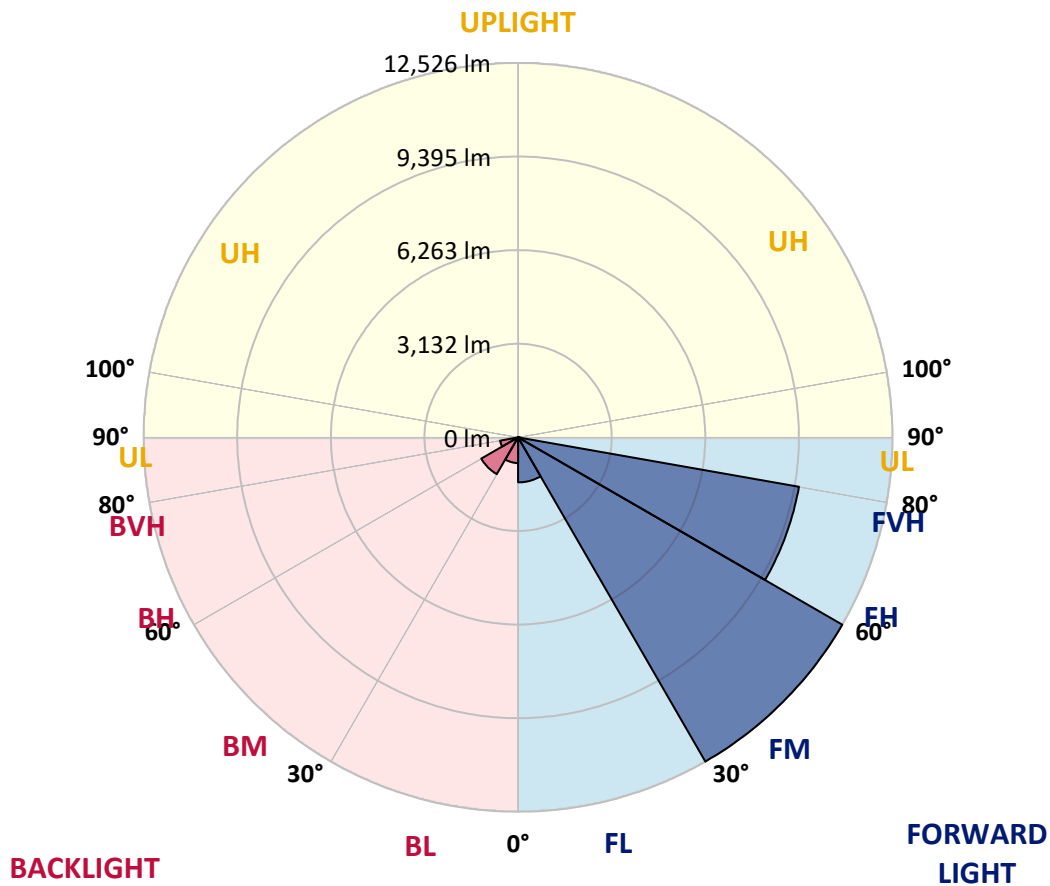
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1506.6 | 5.7 | | | |
| FM (30°-60°) | 12526.5 | 47.2 | | | |
| FH (60°-80°) | 9542.3 | 36.0 | | | G4/12000 |
| FVH (80°-90°) | 62.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 858.6 | 3.2 | B2/1000 | | |
| BM (30°-60°) | 1421.7 | 5.4 | B2/2500 | | |
| BH (60°-80°) | 611.0 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 3.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2891.2 | 2891.2 | 2891.2 | 2891.2 | 2891.2 | 2891.2 | 2891.2 | 2891.2 | 2891.2 | 2891.2 | 2891.2 |
| 2.5° | 2836.8 | 2831.7 | 2831.7 | 2852.4 | 2855.0 | 2865.3 | 2888.6 | 2891.2 | 2904.2 | 2899.0 | 2880.9 |
| 5° | 2689.2 | 2691.8 | 2707.3 | 2743.6 | 2774.7 | 2813.5 | 2870.5 | 2883.5 | 2912.0 | 2927.5 | 2917.1 |
| 7.5° | 2551.9 | 2554.4 | 2577.8 | 2634.8 | 2694.3 | 2772.1 | 2865.3 | 2891.2 | 2948.2 | 2989.7 | 2992.3 |
| 10° | 2500.0 | 2497.5 | 2520.8 | 2585.5 | 2663.3 | 2772.1 | 2906.8 | 2940.5 | 3026.0 | 3098.5 | 3111.4 |
| 12.5° | 2515.6 | 2513.0 | 2536.3 | 2595.9 | 2681.4 | 2818.7 | 2979.3 | 3026.0 | 3134.8 | 3246.2 | 3269.5 |
| 15° | 2577.8 | 2575.2 | 2590.7 | 2639.9 | 2733.2 | 2875.7 | 3072.6 | 3142.5 | 3279.8 | 3414.6 | 3450.8 |
| 17.5° | 2764.3 | 2751.3 | 2735.8 | 2741.0 | 2795.4 | 2943.1 | 3191.8 | 3277.3 | 3448.2 | 3608.9 | 3640.0 |
| 20° | 3095.9 | 3062.2 | 3020.8 | 2966.4 | 2940.5 | 3041.5 | 3329.1 | 3427.5 | 3634.8 | 3818.7 | 3823.9 |
| 22.5° | 3595.9 | 3583.0 | 3487.1 | 3329.1 | 3217.7 | 3220.3 | 3489.7 | 3603.7 | 3857.6 | 4059.7 | 4031.2 |
| 25° | 4292.8 | 4285.0 | 4137.4 | 3878.3 | 3588.1 | 3489.7 | 3694.4 | 3810.9 | 4121.8 | 4336.9 | 4246.2 |
| 27.5° | 5158.1 | 5103.7 | 4930.1 | 4580.4 | 4147.7 | 3839.4 | 3953.4 | 4057.1 | 4401.6 | 4603.7 | 4432.7 |
| 30° | 5912.0 | 5914.6 | 5751.4 | 5386.1 | 4899.0 | 4365.4 | 4269.5 | 4360.2 | 4658.1 | 4870.5 | 4663.3 |
| 32.5° | 6637.4 | 6660.7 | 6482.0 | 6153.0 | 5619.3 | 5051.9 | 4722.9 | 4738.4 | 4987.1 | 5217.7 | 4966.4 |
| 35° | 7311.0 | 7329.1 | 7204.8 | 6925.0 | 6427.6 | 5769.5 | 5355.0 | 5347.2 | 5482.0 | 5717.7 | 5388.7 |
| 37.5° | 8064.9 | 8083.0 | 7961.3 | 7710.0 | 7243.6 | 6590.8 | 6072.6 | 6062.3 | 6116.7 | 6308.4 | 5932.7 |
| 40° | 8868.0 | 8901.7 | 8767.0 | 8554.5 | 8108.9 | 7557.1 | 6906.8 | 6813.6 | 6759.2 | 6984.6 | 6637.4 |
| 42.5° | 9681.5 | 9733.3 | 9686.7 | 9474.2 | 9093.4 | 8637.4 | 7989.8 | 7844.7 | 7728.1 | 8010.5 | 7642.6 |
| 45° | 10691.9 | 10754.1 | 10733.3 | 10570.1 | 10274.8 | 9904.3 | 9292.9 | 9124.5 | 9070.1 | 9331.8 | 8893.9 |
| 47.5° | 11663.4 | 11730.8 | 11805.9 | 11769.6 | 11559.8 | 11388.8 | 10710.0 | 10614.2 | 10598.6 | 10878.4 | 10199.6 |
| 50° | 12386.2 | 12448.4 | 12736.0 | 12943.2 | 13085.7 | 13049.4 | 12461.3 | 12318.9 | 12295.5 | 12474.3 | 11577.9 |
| 52.5° | 12904.4 | 12963.9 | 13360.3 | 14008.0 | 14531.3 | 14816.3 | 14223.0 | 14191.9 | 14065.0 | 14002.8 | 12868.1 |
| 55° | 13305.9 | 13388.8 | 13805.9 | 14785.2 | 15839.6 | 16471.8 | 16101.3 | 15989.9 | 15663.5 | 15305.9 | 14065.0 |
| 57.5° | 13386.2 | 13419.9 | 14008.0 | 15329.3 | 16855.2 | 17878.5 | 17878.5 | 17684.2 | 17054.7 | 16559.9 | 15448.4 |
| 60° | 12666.0 | 12769.6 | 13565.0 | 15285.2 | 17290.4 | 18798.2 | 19352.6 | 19217.9 | 18368.2 | 17759.4 | 16780.1 |
| 62.5° | 11067.5 | 11184.1 | 12153.0 | 14230.8 | 16855.2 | 18987.4 | 20469.2 | 20448.5 | 19490.0 | 18751.6 | 17883.7 |
| 65° | 8487.2 | 8572.7 | 9417.3 | 11904.3 | 15015.8 | 18259.4 | 21267.2 | 21324.2 | 20376.0 | 19407.1 | 18264.5 |
| 67.5° | 4264.3 | 4323.9 | 5235.8 | 8132.3 | 11901.7 | 16163.5 | 21212.8 | 21466.7 | 20645.4 | 19059.9 | 16811.2 |
| 70° | 1489.7 | 1549.2 | 1979.3 | 3489.7 | 7243.6 | 12342.2 | 19378.6 | 19793.1 | 19062.5 | 16269.7 | 12401.8 |
| 72.5° | 510.4 | 538.9 | 821.3 | 1295.4 | 2818.7 | 7316.2 | 14736.0 | 15360.4 | 14052.0 | 10922.5 | 7127.1 |
| 75° | 290.2 | 308.3 | 440.4 | 702.1 | 1181.4 | 2406.8 | 8360.2 | 8743.7 | 8191.8 | 5953.5 | 2932.7 |
| 77.5° | 196.9 | 212.4 | 274.6 | 399.0 | 652.9 | 774.6 | 3409.4 | 4292.8 | 3743.6 | 1943.0 | 748.7 |
| 80° | 116.6 | 126.9 | 168.4 | 235.8 | 334.2 | 300.5 | 730.6 | 971.5 | 1251.3 | 580.3 | 225.4 |
| 82.5° | 54.4 | 62.2 | 108.8 | 155.4 | 168.4 | 126.9 | 215.0 | 261.7 | 352.3 | 285.0 | 93.3 |
| 85° | 0.0 | 0.0 | 36.3 | 64.8 | 62.2 | 36.3 | 59.6 | 64.8 | 95.9 | 142.5 | 36.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 5.2 | 7.8 | 15.5 | 28.5 | 15.5 |
| 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-SA6D-760-U-T3-W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2891.2 | 2891.2 | 2891.2 | 2891.2 | 2891.2 | 2891.2 | 2891.2 | 2891.2 | 2891.2 | 2891.2 | 2891.2 |
| 2.5° | 2901.6 | 2883.5 | 2904.2 | 2893.8 | 2904.2 | 2901.6 | 2880.9 | 2867.9 | 2867.9 | 2844.6 | 2836.8 |
| 5° | 2937.9 | 2919.7 | 2924.9 | 2901.6 | 2896.4 | 2883.5 | 2857.6 | 2847.2 | 2847.2 | 2823.9 | 2816.1 |
| 7.5° | 3018.2 | 2989.7 | 2984.5 | 2937.9 | 2917.1 | 2880.9 | 2834.2 | 2816.1 | 2813.5 | 2790.2 | 2782.4 |
| 10° | 3145.1 | 3111.4 | 3088.1 | 3028.5 | 2969.0 | 2896.4 | 2798.0 | 2715.1 | 2668.4 | 2606.3 | 2601.1 |
| 12.5° | 3300.6 | 3259.1 | 3222.9 | 3132.2 | 3033.7 | 2870.5 | 2580.4 | 2277.2 | 2090.7 | 1943.0 | 1953.4 |
| 15° | 3474.1 | 3435.3 | 3378.3 | 3241.0 | 3038.9 | 2614.0 | 2007.8 | 1541.5 | 1313.5 | 1191.7 | 1186.5 |
| 17.5° | 3663.3 | 3606.3 | 3513.0 | 3326.5 | 2875.7 | 1997.4 | 1305.7 | 922.3 | 803.1 | 761.7 | 751.3 |
| 20° | 3839.4 | 3769.5 | 3652.9 | 3344.6 | 2404.2 | 1352.4 | 816.1 | 715.0 | 694.3 | 681.4 | 681.4 |
| 22.5° | 4026.0 | 3937.9 | 3764.3 | 3204.7 | 1787.6 | 865.3 | 694.3 | 671.0 | 655.5 | 637.3 | 634.7 |
| 25° | 4215.1 | 4101.1 | 3865.3 | 2839.4 | 1171.0 | 681.4 | 650.3 | 624.4 | 595.9 | 567.4 | 559.6 |
| 27.5° | 4375.7 | 4228.0 | 3943.1 | 2295.4 | 751.3 | 614.0 | 593.3 | 549.2 | 510.4 | 479.3 | 474.1 |
| 30° | 4567.4 | 4378.3 | 3976.7 | 1678.8 | 590.7 | 541.5 | 510.4 | 463.7 | 417.1 | 386.0 | 375.7 |
| 32.5° | 4823.9 | 4616.7 | 3924.9 | 1093.3 | 523.3 | 476.7 | 427.5 | 373.1 | 326.4 | 292.8 | 287.6 |
| 35° | 5222.9 | 4976.8 | 3686.6 | 696.9 | 474.1 | 411.9 | 352.3 | 295.3 | 256.5 | 230.6 | 225.4 |
| 37.5° | 5709.9 | 5482.0 | 3295.4 | 523.3 | 424.9 | 357.5 | 287.6 | 233.2 | 204.7 | 186.5 | 181.4 |
| 40° | 6432.7 | 6114.1 | 2810.9 | 458.6 | 375.7 | 303.1 | 235.8 | 191.7 | 171.0 | 155.4 | 150.3 |
| 42.5° | 7370.6 | 6860.2 | 2253.9 | 417.1 | 329.0 | 253.9 | 191.7 | 158.0 | 139.9 | 129.5 | 126.9 |
| 45° | 8466.5 | 7588.2 | 1665.8 | 375.7 | 285.0 | 209.8 | 158.0 | 129.5 | 116.6 | 108.8 | 106.2 |
| 47.5° | 9588.2 | 8225.5 | 1150.3 | 331.6 | 243.5 | 173.6 | 132.1 | 111.4 | 101.0 | 90.7 | 88.1 |
| 50° | 10785.2 | 8764.4 | 785.0 | 287.6 | 207.3 | 142.5 | 114.0 | 101.0 | 88.1 | 80.3 | 77.7 |
| 52.5° | 11663.4 | 8963.9 | 546.6 | 248.7 | 176.2 | 121.8 | 101.0 | 90.7 | 80.3 | 69.9 | 67.4 |
| 55° | 12474.3 | 8958.7 | 414.5 | 209.8 | 150.3 | 106.2 | 90.7 | 80.3 | 69.9 | 62.2 | 59.6 |
| 57.5° | 13282.6 | 8888.7 | 326.4 | 178.8 | 129.5 | 95.9 | 80.3 | 69.9 | 64.8 | 54.4 | 51.8 |
| 60° | 13805.9 | 8624.5 | 253.9 | 150.3 | 111.4 | 82.9 | 69.9 | 62.2 | 54.4 | 46.6 | 44.0 |
| 62.5° | 14083.1 | 8256.6 | 194.3 | 119.2 | 90.7 | 72.5 | 62.2 | 54.4 | 46.6 | 38.9 | 36.3 |
| 65° | 13707.5 | 7603.8 | 152.9 | 93.3 | 69.9 | 62.2 | 51.8 | 44.0 | 36.3 | 28.5 | 25.9 |
| 67.5° | 12041.6 | 6412.0 | 119.2 | 75.1 | 54.4 | 46.6 | 44.0 | 36.3 | 25.9 | 20.7 | 18.1 |
| 70° | 8510.5 | 4391.3 | 93.3 | 57.0 | 41.5 | 36.3 | 33.7 | 28.5 | 20.7 | 15.5 | 13.0 |
| 72.5° | 4671.1 | 2215.1 | 67.4 | 41.5 | 31.1 | 28.5 | 25.9 | 23.3 | 18.1 | 13.0 | 13.0 |
| 75° | 1798.0 | 608.8 | 49.2 | 28.5 | 20.7 | 20.7 | 18.1 | 18.1 | 15.5 | 10.4 | 10.4 |
| 77.5° | 468.9 | 181.4 | 31.1 | 18.1 | 13.0 | 13.0 | 13.0 | 10.4 | 10.4 | 7.8 | 7.8 |
| 80° | 150.3 | 59.6 | 18.1 | 13.0 | 10.4 | 7.8 | 7.8 | 5.2 | 7.8 | 5.2 | 5.2 |
| 82.5° | 49.2 | 20.7 | 10.4 | 10.4 | 7.8 | 5.2 | 5.2 | 2.6 | 2.6 | 0.0 | 0.0 |
| 85° | 18.1 | 10.4 | 7.8 | 5.2 | 5.2 | 5.2 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 10.4 | 5.2 | 5.2 | 5.2 | 5.2 | 2.6 | 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)