

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: P637537

Luminaire Tested: GWS-SA4D-722-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-722-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17726.2 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 162.1
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

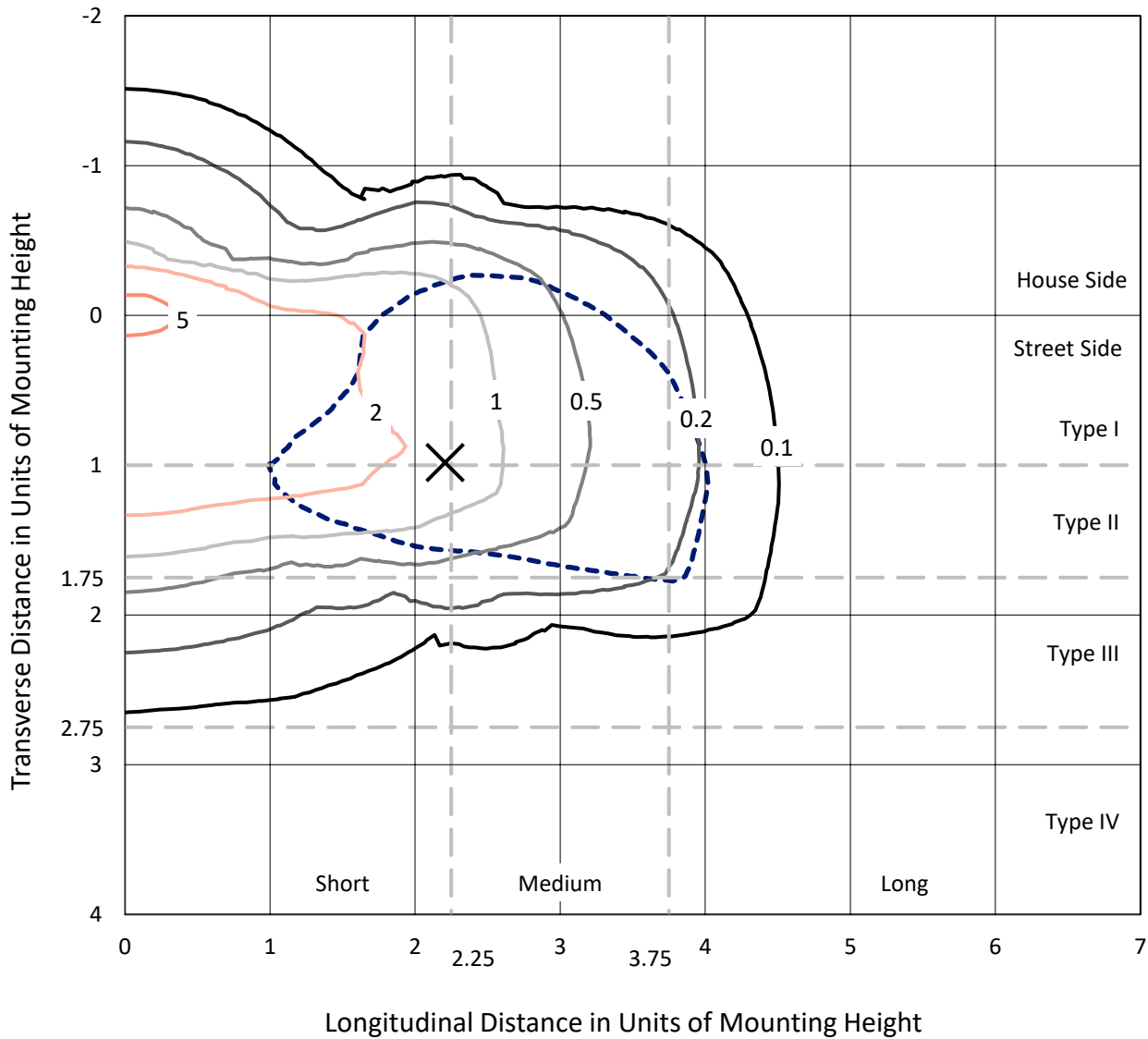


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Iso-Footcandle Lines of Horizontal Illumination

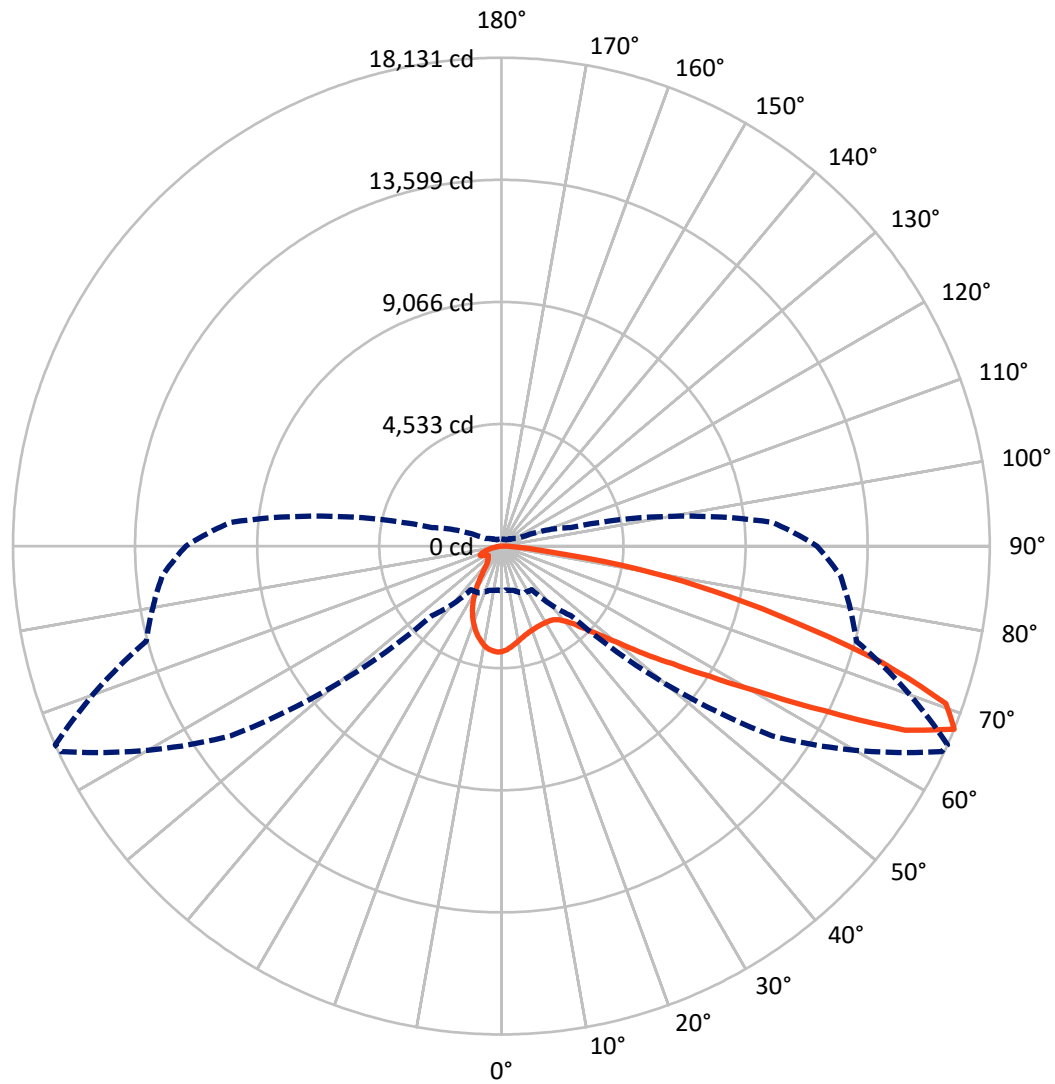
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3597.1 | 0.0 | 3597.1 |
| | % Fixture | 20.3 | 0.0 | 20.3 |
| Street Side | Lumens | 14129.1 | 0.0 | 14129.1 |
| | % Fixture | 79.7 | 0.0 | 79.7 |
| Total | Lumens | 17726.2 | 0.0 | 17726.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 343.8 | 1.9 |
| 10°-20° | 844.8 | 4.8 |
| 20°-30° | 1161.3 | 6.6 |
| 30°-40° | 1587.6 | 9.0 |
| 40°-50° | 2405.7 | 13.6 |
| 50°-60° | 3739.7 | 21.1 |
| 60°-70° | 4553.0 | 25.7 |
| 70°-80° | 2773.5 | 15.6 |
| 80°-90° | 316.8 | 1.8 |
| 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° | 17726.2 | 100.0 |
| 0°-180° | 17726.2 | 100.0 |

Coefficient of Utilization



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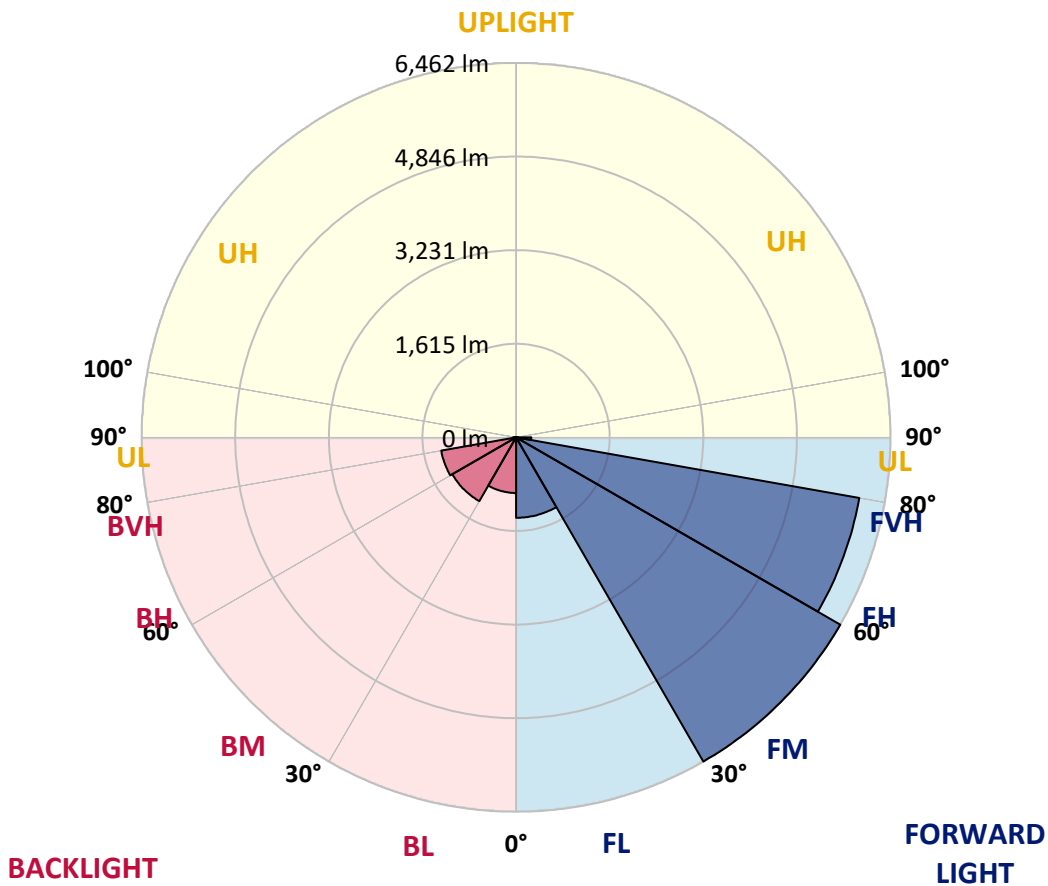
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1388.9 | 7.8 | | | |
| FM (30°-60°) | 6461.9 | 36.5 | | | |
| FH (60°-80°) | 6014.9 | 33.9 | | | G3/7500 |
| FVH (80°-90°) | 263.4 | 1.5 | | | G3/500 |
| BL (0°-30°) | 960.9 | 5.4 | B2/1000 | | |
| BM (30°-60°) | 1271.2 | 7.2 | B2/2500 | | |
| BH (60°-80°) | 1311.5 | 7.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 53.4 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 3917.0 | 3917.0 | 3917.0 | 3917.0 | 3917.0 | 3917.0 | 3917.0 | 3917.0 | 3917.0 | 3917.0 | 3917.0 |
| 2.5° | 3668.7 | 3681.6 | 3673.9 | 3723.0 | 3725.6 | 3787.7 | 3822.6 | 3852.3 | 3854.9 | 3893.7 | 3919.6 |
| 5° | 3417.8 | 3425.6 | 3425.6 | 3472.1 | 3503.2 | 3585.9 | 3666.1 | 3751.5 | 3757.9 | 3851.0 | 3922.2 |
| 7.5° | 3214.8 | 3222.6 | 3217.4 | 3279.5 | 3319.5 | 3411.4 | 3513.5 | 3644.1 | 3657.1 | 3807.1 | 3931.2 |
| 10° | 3055.7 | 3053.2 | 3066.1 | 3123.0 | 3174.7 | 3284.6 | 3398.4 | 3547.1 | 3566.5 | 3756.6 | 3941.6 |
| 12.5° | 2947.1 | 2949.7 | 2957.5 | 3016.9 | 3072.6 | 3181.2 | 3298.9 | 3460.5 | 3481.2 | 3698.4 | 3936.4 |
| 15° | 2895.4 | 2890.2 | 2896.7 | 2951.0 | 3004.0 | 3099.7 | 3221.3 | 3388.1 | 3408.8 | 3646.7 | 3937.7 |
| 17.5° | 2883.8 | 2879.9 | 2878.6 | 2917.4 | 2957.5 | 3046.7 | 3163.1 | 3332.5 | 3354.5 | 3613.1 | 3945.4 |
| 20° | 2920.0 | 2914.8 | 2900.6 | 2917.4 | 2934.2 | 3009.2 | 3121.7 | 3292.4 | 3317.0 | 3591.1 | 3961.0 |
| 22.5° | 3019.5 | 3010.5 | 2988.5 | 2967.8 | 2945.8 | 2991.1 | 3095.8 | 3262.6 | 3287.2 | 3576.9 | 3976.5 |
| 25° | 3170.8 | 3163.1 | 3139.8 | 3093.2 | 3013.1 | 3005.3 | 3090.7 | 3249.7 | 3274.3 | 3566.5 | 3982.9 |
| 27.5° | 3379.0 | 3367.4 | 3344.1 | 3276.9 | 3146.3 | 3058.3 | 3110.1 | 3248.4 | 3271.7 | 3554.9 | 3976.5 |
| 30° | 3626.0 | 3618.3 | 3605.3 | 3523.9 | 3349.3 | 3170.8 | 3154.0 | 3258.8 | 3276.9 | 3548.4 | 3963.5 |
| 32.5° | 3876.9 | 3869.1 | 3879.5 | 3840.7 | 3626.0 | 3357.0 | 3249.7 | 3287.2 | 3300.1 | 3547.1 | 3951.9 |
| 35° | 4098.0 | 4107.1 | 4182.1 | 4188.6 | 3977.8 | 3609.2 | 3401.0 | 3353.2 | 3355.8 | 3573.0 | 3957.1 |
| 37.5° | 4329.5 | 4364.4 | 4462.7 | 4546.8 | 4370.9 | 3942.9 | 3626.0 | 3477.3 | 3474.7 | 3639.0 | 3989.4 |
| 40° | 4636.0 | 4651.5 | 4776.9 | 4934.7 | 4824.8 | 4400.6 | 3945.4 | 3680.3 | 3662.2 | 3773.4 | 4076.0 |
| 42.5° | 4934.7 | 4972.2 | 5172.6 | 5353.7 | 5317.5 | 4916.6 | 4347.6 | 3984.2 | 3951.9 | 4011.4 | 4254.5 |
| 45° | 5314.9 | 5351.1 | 5576.1 | 5808.9 | 5874.8 | 5499.8 | 4862.3 | 4416.1 | 4383.8 | 4369.6 | 4581.7 |
| 47.5° | 5695.1 | 5732.6 | 5934.3 | 6270.5 | 6502.0 | 6229.2 | 5532.1 | 4986.4 | 4933.4 | 4877.8 | 5075.7 |
| 50° | 5951.1 | 5995.1 | 6187.8 | 6591.2 | 7134.4 | 7139.5 | 6326.1 | 5733.9 | 5666.6 | 5578.7 | 5771.4 |
| 52.5° | 5942.1 | 5970.5 | 6154.2 | 6619.7 | 7589.6 | 8185.7 | 7389.1 | 6685.6 | 6631.3 | 6439.9 | 6608.1 |
| 55° | 5475.2 | 5517.9 | 5702.8 | 6284.8 | 7638.7 | 9177.6 | 8951.3 | 7808.1 | 7711.1 | 7368.4 | 7553.4 |
| 57.5° | 4537.7 | 4573.9 | 4760.1 | 5477.8 | 7202.9 | 9685.8 | 10935.0 | 9238.3 | 9105.2 | 8379.7 | 8593.1 |
| 60° | 3425.6 | 3381.6 | 3469.6 | 4098.0 | 6160.6 | 9698.7 | 12685.9 | 11178.1 | 10955.7 | 9460.8 | 9639.2 |
| 62.5° | 2570.8 | 2526.8 | 2546.2 | 2723.4 | 4176.9 | 8915.1 | 13684.2 | 13831.7 | 13464.4 | 10681.5 | 10646.6 |
| 65° | 2031.6 | 2007.0 | 2062.6 | 2184.2 | 2435.0 | 6789.1 | 13692.0 | 16701.2 | 16469.7 | 12096.2 | 11679.8 |
| 67.5° | 1655.2 | 1639.7 | 1696.6 | 1921.6 | 1974.7 | 3648.0 | 12277.3 | 18040.9 | 18131.4 | 13645.4 | 12638.1 |
| 70° | 1333.2 | 1310.0 | 1399.2 | 1695.3 | 1836.3 | 2207.4 | 8794.8 | 17358.1 | 17504.2 | 14568.8 | 12367.8 |
| 72.5° | 920.7 | 922.0 | 967.3 | 1373.3 | 1772.9 | 1906.1 | 4974.8 | 14453.7 | 14770.5 | 13732.1 | 10872.9 |
| 75° | 620.7 | 625.9 | 638.8 | 906.5 | 1633.3 | 1849.2 | 2651.0 | 10942.7 | 11166.5 | 11350.1 | 8987.5 |
| 77.5° | 375.0 | 377.6 | 407.3 | 548.3 | 1126.3 | 1726.4 | 1796.2 | 7932.3 | 8108.1 | 7482.2 | 5570.9 |
| 80° | 217.3 | 226.3 | 253.5 | 367.3 | 760.4 | 1297.0 | 1390.1 | 4863.6 | 5062.7 | 3326.0 | 1770.3 |
| 82.5° | 95.7 | 102.2 | 138.4 | 213.4 | 443.6 | 1103.1 | 1085.0 | 1921.6 | 1893.2 | 927.2 | 614.3 |
| 85° | 16.8 | 20.7 | 29.7 | 67.2 | 162.9 | 581.9 | 841.8 | 848.3 | 797.9 | 351.7 | 254.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.9 | 126.7 | 227.6 | 226.3 | 99.6 | 87.9 |
| 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° | 3917.0 | 3917.0 | 3917.0 | 3917.0 | 3917.0 | 3917.0 | 3917.0 | 3917.0 | 3917.0 | 3917.0 | 3917.0 |
| 2.5° | 3936.4 | 3901.5 | 3932.5 | 3936.4 | 3929.9 | 3924.7 | 3886.0 | 3852.3 | 3848.4 | 3812.2 | 3812.2 |
| 5° | 3950.6 | 3918.3 | 3933.8 | 3904.1 | 3857.5 | 3809.7 | 3726.9 | 3670.0 | 3644.1 | 3597.6 | 3597.6 |
| 7.5° | 3970.0 | 3936.4 | 3918.3 | 3844.6 | 3735.9 | 3631.2 | 3498.0 | 3386.8 | 3341.5 | 3275.6 | 3273.0 |
| 10° | 3988.1 | 3945.4 | 3883.4 | 3739.8 | 3566.5 | 3399.7 | 3205.7 | 3048.0 | 2940.6 | 2861.8 | 2861.8 |
| 12.5° | 3986.8 | 3931.2 | 3808.4 | 3596.3 | 3357.0 | 3115.2 | 2856.6 | 2618.7 | 2476.4 | 2353.6 | 2345.8 |
| 15° | 3984.2 | 3907.9 | 3712.7 | 3429.5 | 3112.6 | 2777.7 | 2426.0 | 2115.6 | 1904.8 | 1784.6 | 1774.2 |
| 17.5° | 3981.6 | 3878.2 | 3605.3 | 3239.4 | 2815.2 | 2358.7 | 1894.5 | 1558.3 | 1382.4 | 1308.7 | 1311.3 |
| 20° | 3981.6 | 3844.6 | 3490.2 | 3020.8 | 2472.5 | 1857.0 | 1390.1 | 1145.7 | 1101.8 | 1105.7 | 1109.5 |
| 22.5° | 3970.0 | 3803.2 | 3362.2 | 2782.9 | 2091.0 | 1365.6 | 1025.5 | 942.7 | 966.0 | 1002.2 | 1007.4 |
| 25° | 3942.9 | 3734.7 | 3213.5 | 2519.1 | 1637.1 | 994.4 | 836.7 | 821.2 | 863.8 | 909.1 | 922.0 |
| 27.5° | 3900.2 | 3655.8 | 3046.7 | 2210.0 | 1205.2 | 799.2 | 735.8 | 734.5 | 768.1 | 801.8 | 813.4 |
| 30° | 3854.9 | 3567.8 | 2870.8 | 1866.0 | 872.9 | 695.7 | 671.2 | 671.2 | 688.0 | 708.7 | 706.1 |
| 32.5° | 3801.9 | 3478.6 | 2682.0 | 1507.8 | 711.2 | 637.5 | 629.8 | 625.9 | 628.5 | 636.2 | 636.2 |
| 35° | 3756.6 | 3399.7 | 2488.0 | 1128.9 | 637.5 | 605.2 | 597.4 | 588.4 | 584.5 | 579.3 | 581.9 |
| 37.5° | 3739.8 | 3337.7 | 2287.6 | 850.9 | 601.3 | 581.9 | 569.0 | 556.1 | 547.0 | 544.4 | 543.1 |
| 40° | 3767.0 | 3311.8 | 2087.2 | 700.9 | 575.5 | 557.4 | 543.1 | 526.3 | 518.6 | 518.6 | 518.6 |
| 42.5° | 3873.0 | 3331.2 | 1882.8 | 633.6 | 557.4 | 536.7 | 516.0 | 500.5 | 497.9 | 500.5 | 501.7 |
| 45° | 4067.0 | 3406.2 | 1670.8 | 600.0 | 541.8 | 516.0 | 491.4 | 479.8 | 479.8 | 482.3 | 482.3 |
| 47.5° | 4413.6 | 3602.7 | 1461.3 | 579.3 | 526.3 | 499.2 | 473.3 | 461.7 | 460.4 | 463.0 | 463.0 |
| 50° | 5013.6 | 3957.1 | 1272.5 | 565.1 | 514.7 | 486.2 | 460.4 | 444.8 | 441.0 | 439.7 | 439.7 |
| 52.5° | 5770.1 | 4571.3 | 1152.2 | 554.8 | 500.5 | 472.0 | 446.1 | 425.5 | 417.7 | 413.8 | 413.8 |
| 55° | 6684.4 | 5389.9 | 1152.2 | 547.0 | 482.3 | 455.2 | 425.5 | 404.8 | 393.1 | 387.9 | 387.9 |
| 57.5° | 7720.2 | 6343.0 | 1351.4 | 540.5 | 468.1 | 435.8 | 403.5 | 382.8 | 369.8 | 362.1 | 362.1 |
| 60° | 8774.1 | 7350.3 | 1844.0 | 531.5 | 455.2 | 411.2 | 378.9 | 359.5 | 342.7 | 333.6 | 332.3 |
| 62.5° | 9866.8 | 8459.9 | 2493.2 | 536.7 | 446.1 | 387.9 | 353.0 | 331.0 | 316.8 | 307.8 | 306.5 |
| 65° | 10867.7 | 9516.4 | 3060.9 | 576.8 | 447.4 | 367.3 | 323.3 | 303.9 | 292.3 | 280.6 | 279.3 |
| 67.5° | 11717.3 | 10099.6 | 2662.6 | 658.2 | 474.6 | 342.7 | 293.5 | 274.2 | 263.8 | 256.0 | 254.8 |
| 70° | 11122.5 | 9209.9 | 1510.4 | 708.7 | 512.1 | 316.8 | 259.9 | 247.0 | 236.6 | 231.5 | 230.2 |
| 72.5° | 9511.2 | 7797.8 | 1010.0 | 625.9 | 466.8 | 283.2 | 228.9 | 218.5 | 210.8 | 204.3 | 203.0 |
| 75° | 7704.7 | 6183.9 | 772.0 | 513.4 | 363.4 | 230.2 | 196.6 | 188.8 | 181.0 | 174.6 | 173.3 |
| 77.5° | 4558.4 | 3573.0 | 569.0 | 406.1 | 256.0 | 179.7 | 162.9 | 156.5 | 148.7 | 143.5 | 142.2 |
| 80° | 1454.8 | 1241.4 | 360.8 | 279.3 | 169.4 | 138.4 | 125.4 | 120.3 | 112.5 | 106.0 | 104.7 |
| 82.5° | 554.8 | 479.8 | 191.4 | 142.2 | 112.5 | 94.4 | 84.1 | 78.9 | 73.7 | 67.2 | 66.0 |
| 85° | 245.7 | 230.2 | 106.0 | 76.3 | 60.8 | 46.6 | 41.4 | 38.8 | 32.3 | 27.2 | 25.9 |
| 87.5° | 86.6 | 86.6 | 45.3 | 22.0 | 12.9 | 6.5 | 3.9 | 1.3 | 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)