

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: P635773

Luminaire Tested: GWS-SA3E-740-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-740-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22638.7 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

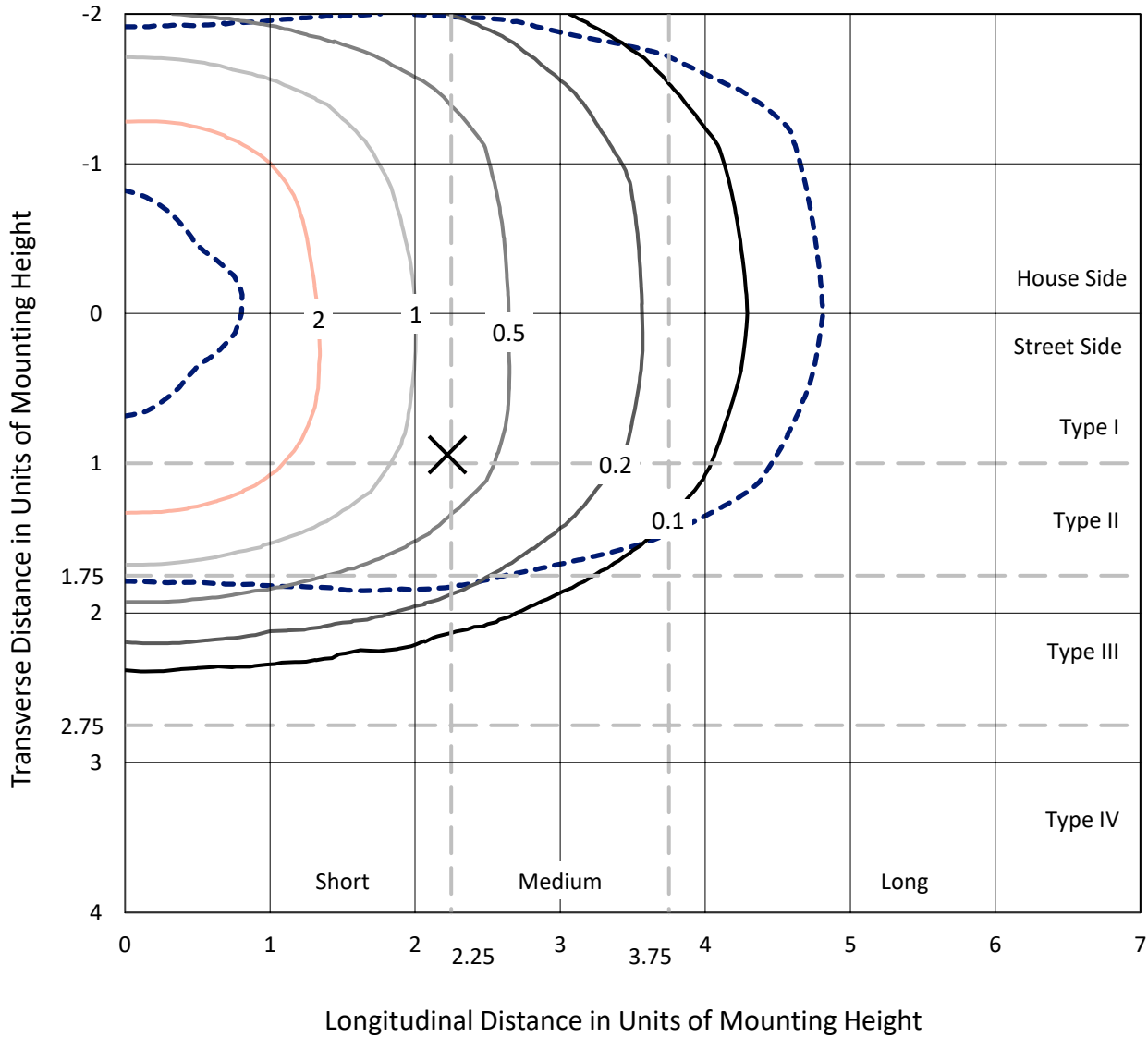
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

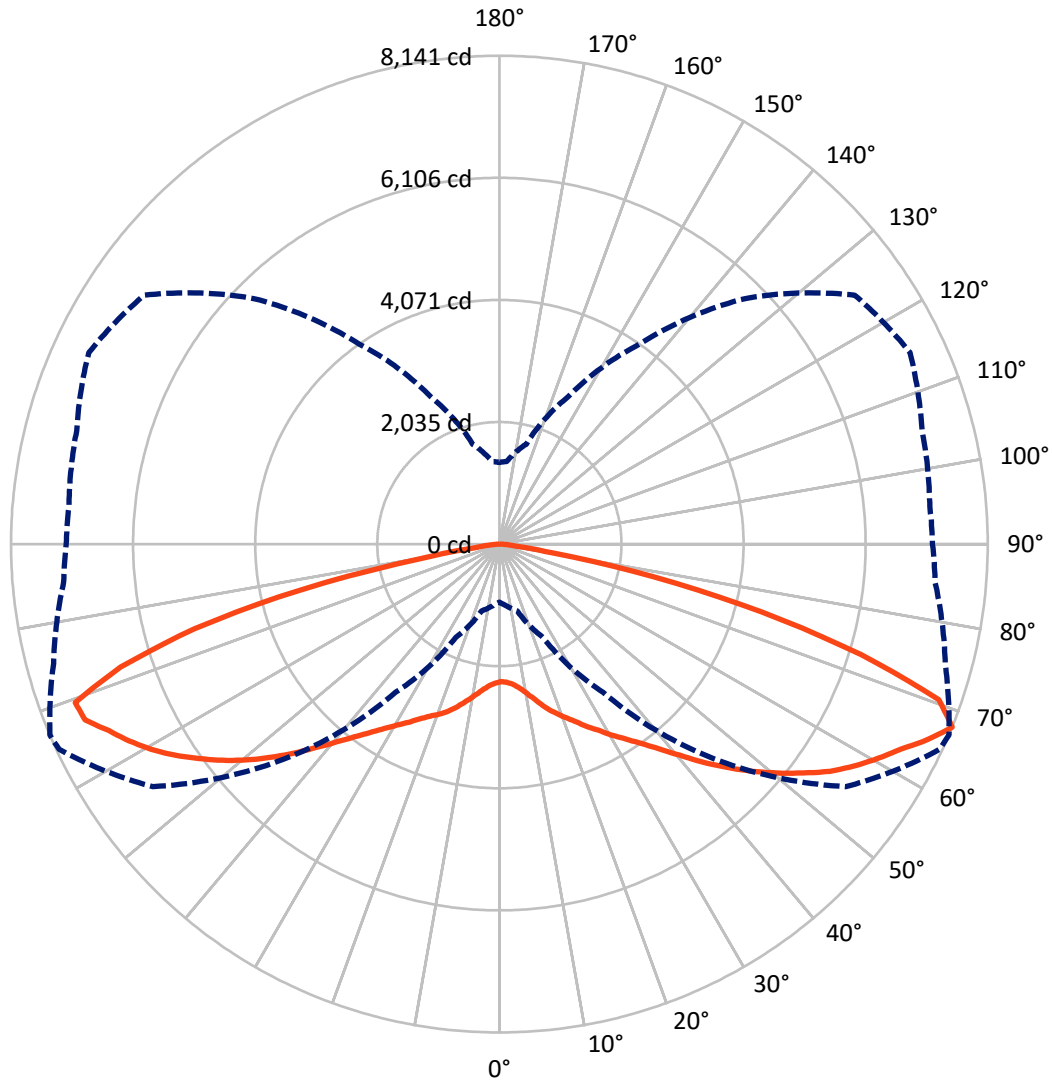
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11194.4 | 0.0 | 11194.4 |
| | % Fixture | 49.4 | 0.0 | 49.4 |
| Street Side | Lumens | 11444.3 | 0.0 | 11444.3 |
| | % Fixture | 50.6 | 0.0 | 50.6 |
| Total | Lumens | 22638.7 | 0.0 | 22638.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 224.9 | 1.0 |
| 10°-20° | 759.8 | 3.4 |
| 20°-30° | 1490.7 | 6.6 |
| 30°-40° | 2539.7 | 11.2 |
| 40°-50° | 4078.3 | 18.0 |
| 50°-60° | 5541.5 | 24.5 |
| 60°-70° | 5300.8 | 23.4 |
| 70°-80° | 2520.2 | 11.1 |
| 80°-90° | 182.6 | 0.8 |
| 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° | 22638.7 | 100.0 |
| 0°-180° | 22638.7 | 100.0 |

Coefficient of Utilization



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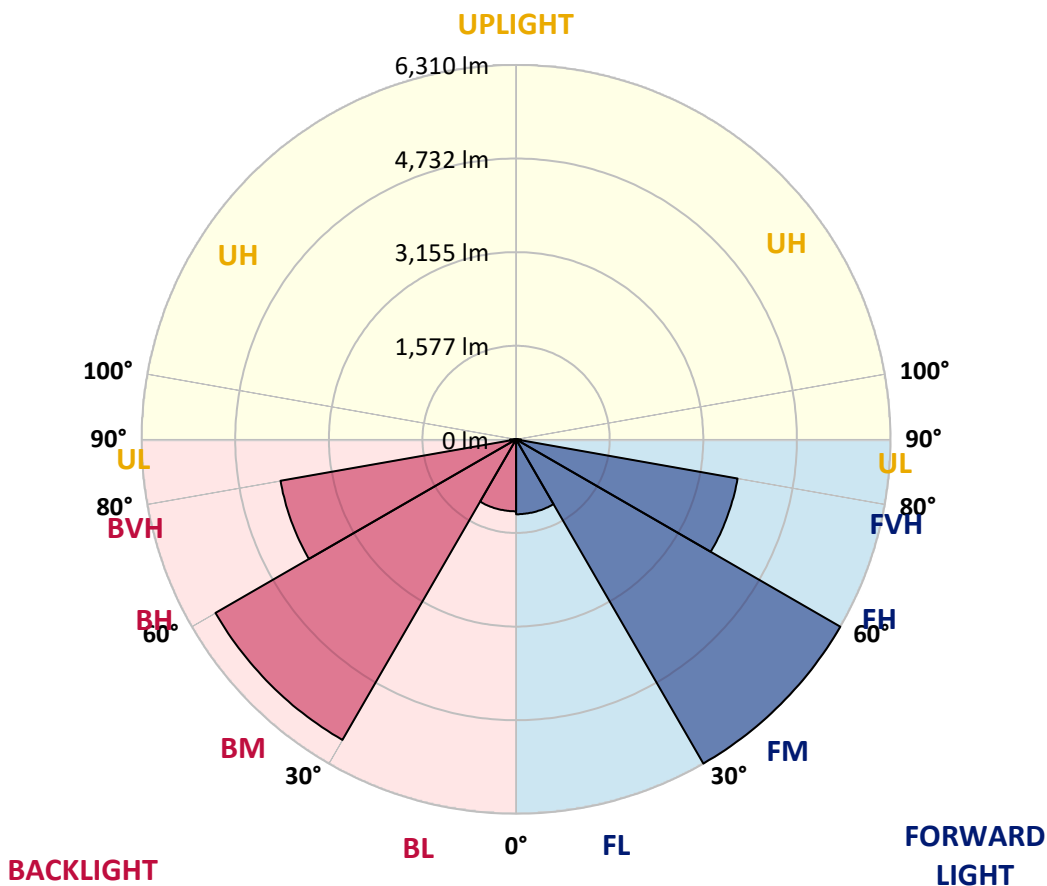
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1262.3 | 5.6 | | | |
| FM (30°-60°) | 6309.6 | 27.9 | | | |
| FH (60°-80°) | 3790.3 | 16.7 | | | G2/5000 |
| FVH (80°-90°) | 82.1 | 0.4 | | | G1/100 |
| BL (0°-30°) | 1213.2 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 5849.9 | 25.8 | B4/8500 | | |
| BH (60°-80°) | 4030.8 | 17.8 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 100.5 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2292.3 | 2292.3 | 2292.3 | 2292.3 | 2292.3 | 2292.3 | 2292.3 | 2292.3 | 2292.3 | 2292.3 | 2292.3 |
| 2.5° | 2245.0 | 2248.2 | 2252.9 | 2262.3 | 2271.8 | 2286.0 | 2300.2 | 2298.6 | 2304.9 | 2309.6 | 2314.4 |
| 5° | 2232.4 | 2235.5 | 2243.4 | 2256.0 | 2270.2 | 2293.9 | 2323.8 | 2336.4 | 2345.9 | 2363.2 | 2379.0 |
| 7.5° | 2259.2 | 2265.5 | 2276.5 | 2293.9 | 2315.9 | 2345.9 | 2386.9 | 2409.0 | 2423.1 | 2454.7 | 2481.5 |
| 10° | 2295.4 | 2303.3 | 2325.4 | 2358.5 | 2391.6 | 2437.3 | 2489.4 | 2522.5 | 2531.9 | 2572.9 | 2623.4 |
| 12.5° | 2330.1 | 2339.6 | 2375.9 | 2435.8 | 2495.7 | 2557.2 | 2618.6 | 2659.6 | 2662.8 | 2718.0 | 2774.7 |
| 15° | 2385.3 | 2393.2 | 2442.1 | 2519.3 | 2610.8 | 2695.9 | 2771.6 | 2799.9 | 2812.6 | 2852.0 | 2922.9 |
| 17.5° | 2506.7 | 2516.2 | 2579.2 | 2662.8 | 2759.0 | 2848.8 | 2924.5 | 2948.1 | 2948.1 | 2981.2 | 3039.6 |
| 20° | 2637.6 | 2647.0 | 2730.6 | 2837.8 | 2954.4 | 3045.9 | 3104.2 | 3082.1 | 3074.3 | 3083.7 | 3124.7 |
| 22.5° | 2784.2 | 2801.5 | 2881.9 | 3006.5 | 3149.9 | 3261.9 | 3291.8 | 3225.6 | 3203.5 | 3181.5 | 3190.9 |
| 25° | 2971.8 | 2992.3 | 3071.1 | 3203.5 | 3343.8 | 3462.1 | 3479.4 | 3377.0 | 3364.3 | 3287.1 | 3258.7 |
| 27.5° | 3187.8 | 3203.5 | 3301.3 | 3432.1 | 3563.0 | 3662.3 | 3681.2 | 3555.1 | 3512.5 | 3405.3 | 3339.1 |
| 30° | 3466.8 | 3481.0 | 3566.1 | 3695.4 | 3808.9 | 3878.3 | 3901.9 | 3728.5 | 3695.4 | 3531.5 | 3429.0 |
| 32.5° | 3771.1 | 3777.4 | 3864.1 | 3988.7 | 4089.6 | 4155.8 | 4122.7 | 3920.9 | 3872.0 | 3687.5 | 3547.2 |
| 35° | 4119.5 | 4119.5 | 4231.4 | 4332.3 | 4412.7 | 4431.7 | 4368.6 | 4138.4 | 4081.7 | 3881.5 | 3706.5 |
| 37.5° | 4461.6 | 4471.1 | 4575.1 | 4694.9 | 4765.9 | 4762.7 | 4647.7 | 4395.4 | 4330.8 | 4113.2 | 3919.3 |
| 40° | 4832.1 | 4852.6 | 4956.7 | 5090.7 | 5158.5 | 5149.0 | 4972.4 | 4691.8 | 4625.6 | 4368.6 | 4179.4 |
| 42.5° | 5172.6 | 5205.7 | 5327.1 | 5464.3 | 5538.4 | 5532.1 | 5347.6 | 5032.3 | 4967.7 | 4677.6 | 4488.4 |
| 45° | 5443.8 | 5478.5 | 5629.8 | 5820.6 | 5938.8 | 5927.8 | 5741.8 | 5385.5 | 5306.6 | 5002.4 | 4794.3 |
| 47.5° | 5681.9 | 5718.1 | 5886.8 | 6088.6 | 6276.2 | 6295.1 | 6124.9 | 5741.8 | 5658.2 | 5350.8 | 5115.9 |
| 50° | 5864.7 | 5882.1 | 6071.3 | 6292.0 | 6509.5 | 6615.2 | 6467.0 | 6099.6 | 5998.7 | 5694.5 | 5429.6 |
| 52.5° | 5850.6 | 5874.2 | 6107.5 | 6407.1 | 6698.7 | 6872.2 | 6769.7 | 6437.0 | 6339.3 | 6008.2 | 5749.7 |
| 55° | 5562.0 | 5585.7 | 5863.2 | 6299.9 | 6804.4 | 7059.8 | 7048.7 | 6758.6 | 6687.7 | 6328.2 | 6082.3 |
| 57.5° | 5141.1 | 5193.1 | 5469.0 | 5940.4 | 6665.6 | 7209.5 | 7253.7 | 7051.9 | 6977.8 | 6642.0 | 6411.8 |
| 60° | 4387.5 | 4456.9 | 4775.4 | 5387.0 | 6221.0 | 7159.1 | 7472.8 | 7299.4 | 7253.7 | 6933.6 | 6709.8 |
| 62.5° | 3187.8 | 3238.2 | 3662.3 | 4464.8 | 5562.0 | 6799.6 | 7657.3 | 7554.8 | 7520.1 | 7195.3 | 6979.4 |
| 65° | 1909.2 | 2024.3 | 2364.8 | 3157.8 | 4486.8 | 6121.7 | 7556.4 | 7889.0 | 7852.8 | 7464.9 | 7209.5 |
| 67.5° | 966.4 | 1018.4 | 1152.5 | 1712.1 | 3017.5 | 5065.4 | 7050.3 | 8097.1 | 8141.3 | 7695.1 | 7291.5 |
| 70° | 599.1 | 613.3 | 651.1 | 845.0 | 1507.2 | 3328.1 | 5765.4 | 7554.8 | 7770.8 | 7658.8 | 7078.7 |
| 72.5° | 480.8 | 484.0 | 490.3 | 526.6 | 723.6 | 1556.0 | 3645.0 | 5916.8 | 6306.2 | 7152.8 | 6774.4 |
| 75° | 398.9 | 400.4 | 402.0 | 413.1 | 450.9 | 635.3 | 1773.6 | 4065.9 | 4521.5 | 6079.2 | 6281.0 |
| 77.5° | 320.0 | 312.2 | 318.5 | 323.2 | 332.7 | 354.7 | 611.7 | 2169.3 | 2631.3 | 3990.2 | 4857.3 |
| 80° | 208.1 | 205.0 | 217.6 | 222.3 | 231.8 | 245.9 | 326.3 | 736.2 | 893.9 | 1452.0 | 1545.0 |
| 82.5° | 111.9 | 105.6 | 132.4 | 127.7 | 132.4 | 143.5 | 192.3 | 269.6 | 302.7 | 438.3 | 370.5 |
| 85° | 34.7 | 34.7 | 36.3 | 42.6 | 52.0 | 50.4 | 83.6 | 132.4 | 146.6 | 187.6 | 138.7 |
| 87.5° | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 7.9 | 17.3 | 26.8 | 36.3 | 64.6 | 48.9 |
| 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° | 2292.3 | 2292.3 | 2292.3 | 2292.3 | 2292.3 | 2292.3 | 2292.3 | 2292.3 | 2292.3 | 2292.3 | 2292.3 |
| 2.5° | 2323.8 | 2309.6 | 2317.5 | 2322.2 | 2320.7 | 2317.5 | 2301.8 | 2298.6 | 2290.7 | 2278.1 | 2275.0 |
| 5° | 2393.2 | 2377.4 | 2379.0 | 2374.3 | 2358.5 | 2338.0 | 2303.3 | 2286.0 | 2271.8 | 2256.0 | 2254.5 |
| 7.5° | 2502.0 | 2484.6 | 2479.9 | 2457.8 | 2413.7 | 2366.4 | 2311.2 | 2279.7 | 2256.0 | 2235.5 | 2232.4 |
| 10° | 2640.7 | 2623.4 | 2607.6 | 2555.6 | 2483.1 | 2420.0 | 2347.5 | 2301.8 | 2267.1 | 2241.8 | 2237.1 |
| 12.5° | 2795.2 | 2781.0 | 2741.6 | 2665.9 | 2579.2 | 2505.1 | 2431.0 | 2374.3 | 2323.8 | 2286.0 | 2281.3 |
| 15° | 2967.1 | 2935.5 | 2875.6 | 2777.9 | 2695.9 | 2636.0 | 2546.1 | 2468.9 | 2388.5 | 2338.0 | 2327.0 |
| 17.5° | 3086.9 | 3060.1 | 2989.1 | 2894.5 | 2829.9 | 2777.9 | 2672.2 | 2561.9 | 2453.1 | 2379.0 | 2363.2 |
| 20° | 3172.0 | 3143.6 | 3063.2 | 2993.9 | 2973.4 | 2929.2 | 2806.2 | 2678.5 | 2552.4 | 2461.0 | 2440.5 |
| 22.5° | 3233.5 | 3203.5 | 3121.6 | 3086.9 | 3115.3 | 3107.4 | 2987.6 | 2842.5 | 2692.7 | 2584.0 | 2558.7 |
| 25° | 3291.8 | 3263.4 | 3190.9 | 3203.5 | 3279.2 | 3302.9 | 3173.6 | 3004.9 | 2834.6 | 2706.9 | 2677.0 |
| 27.5° | 3347.0 | 3310.7 | 3277.6 | 3347.0 | 3454.2 | 3498.4 | 3361.2 | 3170.4 | 2986.0 | 2855.1 | 2831.5 |
| 30° | 3432.1 | 3389.6 | 3384.8 | 3485.7 | 3656.0 | 3693.8 | 3542.5 | 3351.7 | 3168.9 | 3036.4 | 3006.5 |
| 32.5° | 3539.3 | 3499.9 | 3503.1 | 3654.4 | 3851.5 | 3883.0 | 3753.8 | 3575.6 | 3392.7 | 3260.3 | 3219.3 |
| 35° | 3684.4 | 3635.5 | 3662.3 | 3848.3 | 4047.0 | 4105.3 | 4001.3 | 3853.1 | 3674.9 | 3539.3 | 3493.6 |
| 37.5° | 3884.6 | 3813.7 | 3868.8 | 4064.3 | 4264.6 | 4351.3 | 4270.9 | 4160.5 | 3983.9 | 3846.8 | 3804.2 |
| 40° | 4140.0 | 4081.7 | 4103.7 | 4319.7 | 4526.3 | 4630.3 | 4579.9 | 4471.1 | 4296.1 | 4152.6 | 4103.7 |
| 42.5° | 4442.7 | 4384.4 | 4376.5 | 4606.7 | 4813.2 | 4970.8 | 4922.0 | 4822.6 | 4641.3 | 4477.4 | 4430.1 |
| 45° | 4739.1 | 4685.5 | 4696.5 | 4931.4 | 5163.2 | 5335.0 | 5286.2 | 5169.5 | 4972.4 | 4783.2 | 4745.4 |
| 47.5° | 5048.1 | 5003.9 | 5013.4 | 5262.5 | 5517.9 | 5689.7 | 5628.3 | 5486.4 | 5256.2 | 5054.4 | 5008.7 |
| 50° | 5365.0 | 5314.5 | 5328.7 | 5590.4 | 5866.3 | 6028.7 | 5934.1 | 5724.4 | 5470.6 | 5273.5 | 5234.1 |
| 52.5° | 5680.3 | 5620.4 | 5656.6 | 5904.2 | 6189.5 | 6318.8 | 6143.8 | 5890.0 | 5644.0 | 5448.5 | 5404.4 |
| 55° | 6042.9 | 5979.8 | 5940.4 | 6205.3 | 6487.5 | 6541.1 | 6301.4 | 6005.1 | 5713.4 | 5491.1 | 5464.3 |
| 57.5° | 6374.0 | 6320.4 | 6246.3 | 6511.1 | 6719.2 | 6679.8 | 6422.8 | 5973.5 | 5544.7 | 5259.3 | 5221.5 |
| 60° | 6670.4 | 6624.6 | 6560.0 | 6785.4 | 6880.0 | 6791.8 | 6325.1 | 5599.9 | 5128.5 | 4830.5 | 4813.2 |
| 62.5° | 6943.1 | 6894.2 | 6834.3 | 7026.7 | 7014.0 | 6809.1 | 5880.5 | 5026.0 | 4395.4 | 4075.4 | 4047.0 |
| 65° | 7159.1 | 7114.9 | 7097.6 | 7248.9 | 7228.5 | 6470.1 | 5188.4 | 4086.4 | 3211.4 | 2850.4 | 2839.4 |
| 67.5° | 7220.6 | 7203.2 | 7296.2 | 7553.2 | 7233.2 | 5789.1 | 4069.1 | 2710.1 | 1724.7 | 1382.6 | 1362.1 |
| 70° | 6990.4 | 6988.8 | 7255.3 | 7622.6 | 6577.3 | 4422.2 | 2401.1 | 1221.8 | 867.1 | 769.4 | 756.7 |
| 72.5° | 6690.9 | 6686.1 | 6897.4 | 6575.8 | 4877.8 | 2420.0 | 1010.6 | 654.3 | 542.3 | 515.5 | 515.5 |
| 75° | 6199.0 | 6186.4 | 6345.6 | 5002.4 | 2743.2 | 911.2 | 536.0 | 449.3 | 425.7 | 420.9 | 420.9 |
| 77.5° | 5052.8 | 4947.2 | 4696.5 | 3091.6 | 957.0 | 447.7 | 354.7 | 353.1 | 339.0 | 337.4 | 337.4 |
| 80° | 1661.7 | 1661.7 | 1931.3 | 1179.3 | 422.5 | 275.9 | 250.7 | 263.3 | 249.1 | 239.6 | 238.1 |
| 82.5° | 271.2 | 373.6 | 531.3 | 337.4 | 228.6 | 171.8 | 154.5 | 164.0 | 171.8 | 137.2 | 137.2 |
| 85° | 107.2 | 140.3 | 205.0 | 157.7 | 105.6 | 69.4 | 74.1 | 82.0 | 72.5 | 63.1 | 61.5 |
| 87.5° | 41.0 | 50.4 | 72.5 | 37.8 | 22.1 | 12.6 | 7.9 | 7.9 | 6.3 | 6.3 | 6.3 |
| 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)