

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: P640006

Luminaire Tested: GWS-SA5D-722-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-722-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14341.7 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

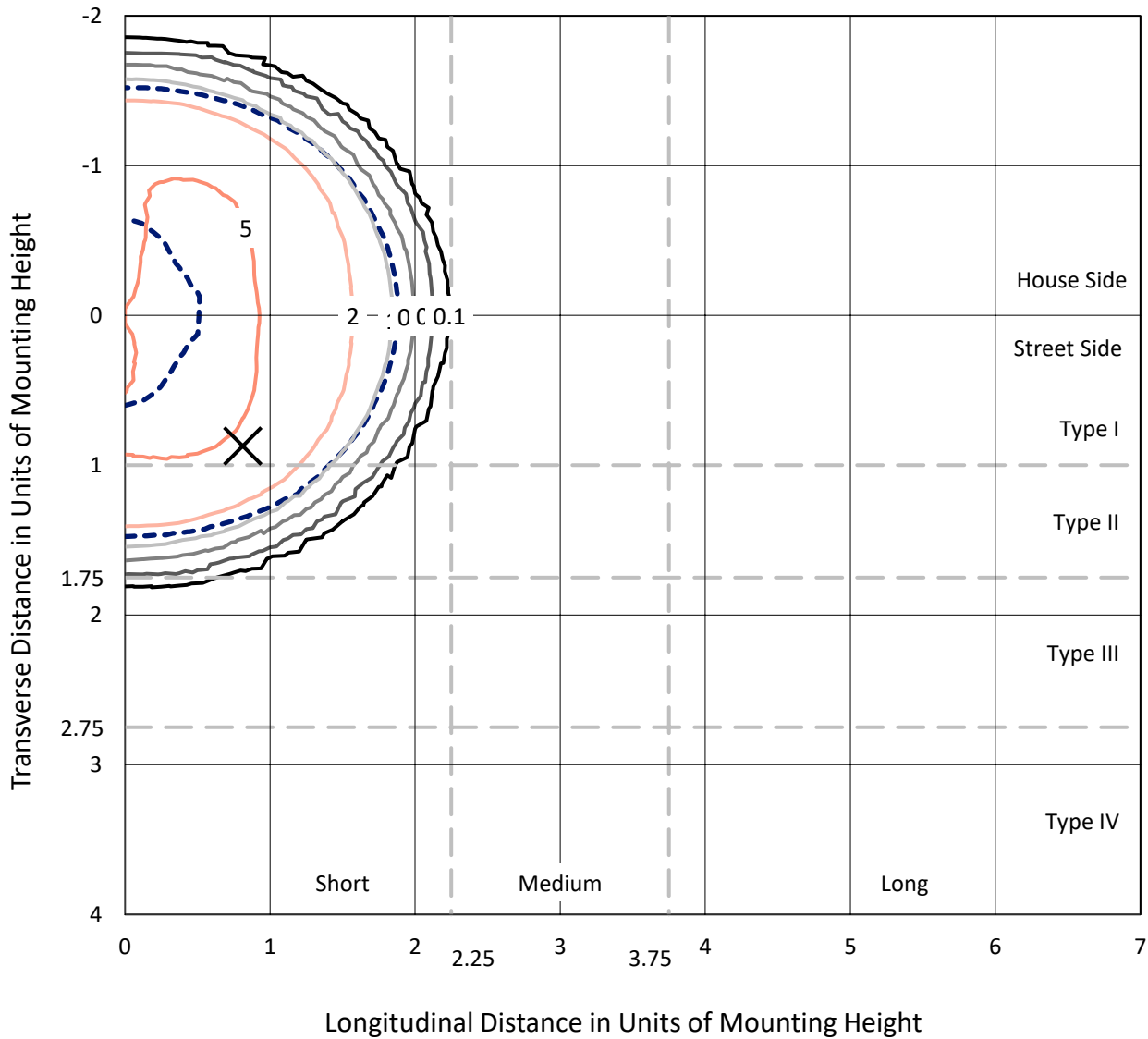
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

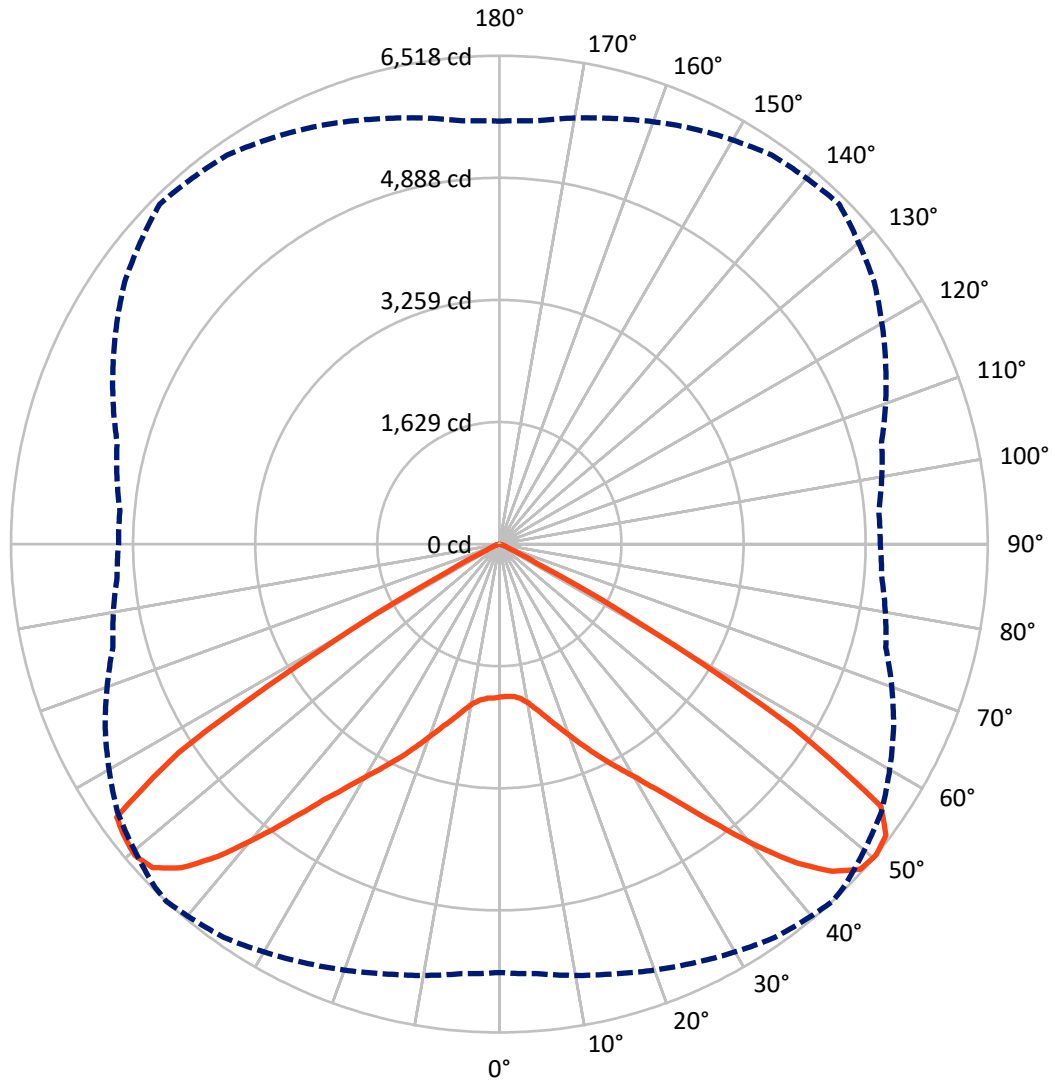
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7170.7 | 0.0 | 7170.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7171.0 | 0.0 | 7171.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 14341.7 | 0.0 | 14341.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 200.9 | 1.4 |
| 10°-20° | 691.3 | 4.8 |
| 20°-30° | 1398.6 | 9.8 |
| 30°-40° | 2594.9 | 18.1 |
| 40°-50° | 4307.4 | 30.0 |
| 50°-60° | 4395.8 | 30.7 |
| 60°-70° | 720.9 | 5.0 |
| 70°-80° | 31.6 | 0.2 |
| 80°-90° | 0.4 | 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° | 14341.7 | 100.0 |
| 0°-180° | 14341.7 | 100.0 |

Coefficient of Utilization



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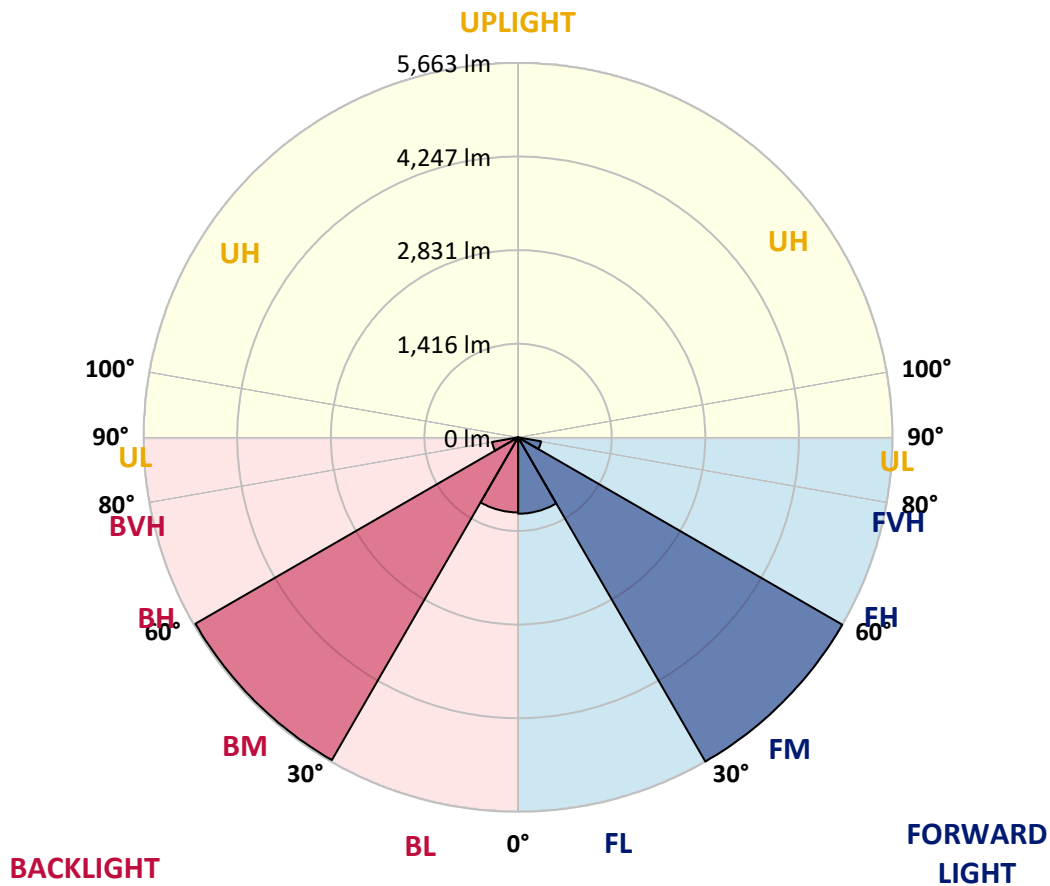
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1155.4 | 8.1 | | | |
| FM (30°-60°) | 5662.8 | 39.5 | | | |
| FH (60°-80°) | 352.6 | 2.5 | | | G0/660 |
| FVH (80°-90°) | 0.2 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1135.3 | 7.9 | B3/2500 | | |
| BM (30°-60°) | 5635.3 | 39.3 | B4/8500 | | |
| BH (60°-80°) | 399.8 | 2.8 | B1/500 | | G0/660 |
| BVH (80°-90°) | 0.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 43° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2039.9 | 2039.9 | 2039.9 | 2039.9 | 2039.9 | 2039.9 | 2039.9 | 2039.9 | 2039.9 | 2039.9 | 2039.9 |
| 2.5° | 2001.8 | 2006.6 | 2012.9 | 2019.3 | 2027.2 | 2035.1 | 2039.9 | 2054.2 | 2051.0 | 2063.7 | 2063.7 |
| 5° | 1979.6 | 1984.4 | 1992.3 | 2006.6 | 2024.0 | 2041.5 | 2054.2 | 2082.7 | 2098.6 | 2123.9 | 2133.5 |
| 7.5° | 1990.7 | 1997.1 | 2006.6 | 2028.8 | 2055.7 | 2082.7 | 2097.0 | 2143.0 | 2174.7 | 2222.3 | 2249.3 |
| 10° | 2027.2 | 2033.5 | 2049.4 | 2087.5 | 2122.4 | 2160.4 | 2177.9 | 2236.6 | 2287.3 | 2352.4 | 2390.4 |
| 12.5° | 2068.4 | 2076.4 | 2108.1 | 2165.2 | 2225.5 | 2276.2 | 2300.0 | 2365.1 | 2417.4 | 2490.4 | 2550.6 |
| 15° | 2111.3 | 2123.9 | 2173.1 | 2257.2 | 2342.8 | 2411.1 | 2436.4 | 2506.2 | 2558.6 | 2636.3 | 2704.5 |
| 17.5° | 2211.2 | 2225.5 | 2281.0 | 2371.4 | 2488.8 | 2568.1 | 2590.3 | 2663.3 | 2702.9 | 2755.3 | 2826.6 |
| 20° | 2336.5 | 2363.5 | 2431.7 | 2541.1 | 2669.6 | 2745.7 | 2761.6 | 2833.0 | 2829.8 | 2852.0 | 2913.9 |
| 22.5° | 2492.0 | 2511.0 | 2585.5 | 2715.6 | 2860.0 | 2944.0 | 2980.5 | 3010.6 | 2971.0 | 2952.0 | 2991.6 |
| 25° | 2653.7 | 2676.0 | 2756.9 | 2899.6 | 3061.4 | 3158.2 | 3188.3 | 3212.1 | 3148.6 | 3077.3 | 3082.0 |
| 27.5° | 2863.1 | 2879.0 | 2958.3 | 3110.6 | 3272.4 | 3381.8 | 3408.8 | 3450.0 | 3366.0 | 3251.8 | 3220.0 |
| 30° | 3112.2 | 3128.0 | 3212.1 | 3372.3 | 3532.5 | 3626.1 | 3667.3 | 3718.1 | 3626.1 | 3483.3 | 3446.9 |
| 32.5° | 3404.0 | 3419.9 | 3527.8 | 3692.7 | 3824.4 | 3925.9 | 3965.6 | 4019.5 | 3946.5 | 3786.3 | 3745.1 |
| 35° | 3753.0 | 3762.5 | 3889.4 | 4068.7 | 4208.2 | 4306.6 | 4333.6 | 4397.0 | 4316.1 | 4155.9 | 4133.7 |
| 37.5° | 4157.5 | 4168.6 | 4306.6 | 4514.4 | 4657.1 | 4766.6 | 4809.4 | 4826.9 | 4728.5 | 4549.3 | 4531.8 |
| 40° | 4601.6 | 4638.1 | 4772.9 | 4996.6 | 5156.8 | 5294.8 | 5332.9 | 5274.2 | 5136.2 | 4891.9 | 4860.2 |
| 42.5° | 5064.8 | 5096.5 | 5247.2 | 5489.9 | 5675.5 | 5816.7 | 5818.3 | 5691.4 | 5456.6 | 5118.7 | 5071.1 |
| 45° | 5450.3 | 5462.9 | 5658.0 | 5902.3 | 6130.7 | 6230.7 | 6240.2 | 6010.2 | 5656.5 | 5250.4 | 5148.9 |
| 47.5° | 5715.2 | 5735.8 | 5905.5 | 6140.3 | 6392.5 | 6482.9 | 6463.8 | 6176.7 | 5751.6 | 5336.0 | 5167.9 |
| 50° | 5718.3 | 5753.2 | 5937.2 | 6164.1 | 6408.3 | 6517.8 | 6490.8 | 6224.3 | 5805.6 | 5339.2 | 5121.9 |
| 52.5° | 5212.3 | 5269.4 | 5569.2 | 5897.6 | 6271.9 | 6459.1 | 6465.4 | 6286.2 | 5784.9 | 5288.5 | 5080.7 |
| 55° | 3932.2 | 3994.1 | 4371.6 | 4931.6 | 5654.9 | 6176.7 | 6267.2 | 6213.2 | 5761.2 | 5310.7 | 5153.6 |
| 57.5° | 2081.1 | 2033.5 | 2242.9 | 2798.1 | 3707.0 | 4630.2 | 4895.1 | 5326.5 | 5496.3 | 5337.6 | 5288.5 |
| 60° | 453.7 | 483.8 | 644.0 | 867.7 | 1446.6 | 2177.9 | 2436.4 | 3175.6 | 4054.4 | 4444.6 | 4726.9 |
| 62.5° | 195.1 | 191.9 | 199.9 | 226.8 | 331.5 | 552.0 | 674.1 | 1100.8 | 1736.9 | 2385.7 | 2825.1 |
| 65° | 160.2 | 161.8 | 168.1 | 168.1 | 157.0 | 158.6 | 166.6 | 252.2 | 406.1 | 569.5 | 764.6 |
| 67.5° | 120.6 | 122.1 | 133.2 | 136.4 | 128.5 | 114.2 | 112.6 | 95.2 | 99.9 | 125.3 | 130.1 |
| 70° | 76.1 | 76.1 | 82.5 | 85.7 | 85.7 | 79.3 | 77.7 | 68.2 | 66.6 | 76.1 | 85.7 |
| 72.5° | 41.2 | 41.2 | 44.4 | 46.0 | 44.4 | 42.8 | 42.8 | 41.2 | 39.7 | 46.0 | 58.7 |
| 75° | 17.4 | 17.4 | 19.0 | 19.0 | 17.4 | 17.4 | 17.4 | 17.4 | 17.4 | 20.6 | 31.7 |
| 77.5° | 3.2 | 4.8 | 6.3 | 4.8 | 3.2 | 3.2 | 3.2 | 4.8 | 4.8 | 6.3 | 9.5 |
| 80° | 1.6 | 1.6 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 | 1.6 |
| 82.5° | 1.6 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2039.9 | 2039.9 | 2039.9 | 2039.9 | 2039.9 | 2039.9 | 2039.9 | 2039.9 | 2039.9 | 2039.9 | 2039.9 |
| 2.5° | 2074.8 | 2057.3 | 2063.7 | 2066.8 | 2062.1 | 2058.9 | 2041.5 | 2036.7 | 2028.8 | 2016.1 | 2012.9 |
| 5° | 2144.6 | 2130.3 | 2128.7 | 2119.2 | 2097.0 | 2070.0 | 2036.7 | 2022.4 | 2006.6 | 1990.7 | 1987.5 |
| 7.5° | 2262.0 | 2244.5 | 2233.4 | 2201.7 | 2150.9 | 2108.1 | 2052.6 | 2022.4 | 2001.8 | 1981.2 | 1976.4 |
| 10° | 2412.6 | 2392.0 | 2360.3 | 2301.6 | 2233.4 | 2171.5 | 2106.5 | 2066.8 | 2035.1 | 2006.6 | 2005.0 |
| 12.5° | 2572.9 | 2550.6 | 2493.5 | 2419.0 | 2336.5 | 2279.4 | 2196.9 | 2141.4 | 2093.8 | 2051.0 | 2046.2 |
| 15° | 2741.0 | 2714.0 | 2636.3 | 2547.5 | 2471.3 | 2412.6 | 2322.2 | 2233.4 | 2160.4 | 2098.6 | 2092.2 |
| 17.5° | 2869.5 | 2836.2 | 2744.2 | 2677.5 | 2615.7 | 2555.4 | 2453.9 | 2336.5 | 2239.7 | 2165.2 | 2147.7 |
| 20° | 2950.4 | 2918.6 | 2831.4 | 2794.9 | 2766.4 | 2723.5 | 2603.0 | 2480.8 | 2373.0 | 2281.0 | 2265.1 |
| 22.5° | 3028.1 | 2990.0 | 2913.9 | 2913.9 | 2936.1 | 2918.6 | 2788.6 | 2649.0 | 2522.1 | 2415.8 | 2392.0 |
| 25° | 3115.3 | 3085.2 | 3031.3 | 3075.7 | 3131.2 | 3129.6 | 2996.4 | 2821.9 | 2676.0 | 2557.0 | 2533.2 |
| 27.5° | 3242.2 | 3212.1 | 3193.1 | 3277.1 | 3346.9 | 3342.2 | 3196.2 | 3007.5 | 2853.6 | 2736.2 | 2714.0 |
| 30° | 3465.9 | 3437.3 | 3416.7 | 3518.2 | 3607.1 | 3573.8 | 3413.5 | 3231.1 | 3075.7 | 2942.4 | 2926.6 |
| 32.5° | 3764.1 | 3734.0 | 3707.0 | 3808.5 | 3887.8 | 3845.0 | 3692.7 | 3521.4 | 3342.2 | 3212.1 | 3180.4 |
| 35° | 4155.9 | 4092.4 | 4065.5 | 4186.0 | 4219.3 | 4171.8 | 4025.8 | 3875.1 | 3684.8 | 3535.7 | 3515.1 |
| 37.5° | 4560.4 | 4485.8 | 4466.8 | 4571.5 | 4625.4 | 4608.0 | 4436.7 | 4279.6 | 4073.4 | 3908.4 | 3884.7 |
| 40° | 4906.2 | 4838.0 | 4804.7 | 4968.0 | 5090.2 | 5101.3 | 4947.4 | 4755.5 | 4512.8 | 4341.5 | 4298.7 |
| 42.5° | 5109.2 | 5050.5 | 5042.6 | 5296.4 | 5496.3 | 5639.0 | 5455.0 | 5256.7 | 5001.4 | 4807.8 | 4772.9 |
| 45° | 5155.2 | 5117.1 | 5183.8 | 5516.9 | 5827.8 | 6087.9 | 5930.9 | 5721.5 | 5445.5 | 5240.9 | 5207.6 |
| 47.5° | 5150.5 | 5137.8 | 5256.7 | 5631.1 | 6024.5 | 6344.9 | 6267.2 | 6030.8 | 5764.3 | 5550.2 | 5518.5 |
| 50° | 5082.3 | 5083.8 | 5282.1 | 5688.2 | 6103.8 | 6414.7 | 6337.0 | 6118.1 | 5880.1 | 5669.2 | 5643.8 |
| 52.5° | 5055.3 | 5045.8 | 5234.5 | 5670.7 | 6184.7 | 6383.0 | 6208.5 | 5962.6 | 5697.7 | 5437.6 | 5399.5 |
| 55° | 5150.5 | 5126.7 | 5240.9 | 5656.5 | 6194.2 | 6365.5 | 5905.5 | 5372.5 | 4830.0 | 4522.3 | 4496.9 |
| 57.5° | 5293.2 | 5267.8 | 5321.8 | 5551.8 | 5697.7 | 5293.2 | 4346.2 | 3486.5 | 2928.2 | 2691.8 | 2588.7 |
| 60° | 4726.9 | 4709.5 | 4668.2 | 4390.7 | 3765.7 | 2840.9 | 1935.2 | 1234.1 | 886.7 | 717.0 | 717.0 |
| 62.5° | 2932.9 | 2909.1 | 2685.5 | 1995.5 | 1449.8 | 839.1 | 461.6 | 288.7 | 218.9 | 204.6 | 203.0 |
| 65° | 823.2 | 818.5 | 677.3 | 479.0 | 304.6 | 188.8 | 166.6 | 169.7 | 166.6 | 161.8 | 160.2 |
| 67.5° | 123.7 | 136.4 | 136.4 | 111.0 | 106.3 | 119.0 | 139.6 | 149.1 | 141.2 | 133.2 | 130.1 |
| 70° | 79.3 | 85.7 | 82.5 | 71.4 | 76.1 | 88.8 | 99.9 | 101.5 | 96.8 | 88.8 | 87.2 |
| 72.5° | 55.5 | 61.9 | 50.8 | 46.0 | 47.6 | 52.3 | 57.1 | 57.1 | 55.5 | 52.3 | 49.2 |
| 75° | 33.3 | 33.3 | 23.8 | 22.2 | 22.2 | 23.8 | 23.8 | 27.0 | 27.0 | 25.4 | 23.8 |
| 77.5° | 11.1 | 12.7 | 7.9 | 6.3 | 6.3 | 6.3 | 7.9 | 9.5 | 9.5 | 7.9 | 6.3 |
| 80° | 1.6 | 3.2 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 3.2 | 3.2 | 1.6 |
| 82.5° | 1.6 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 | 1.6 | 1.6 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)