

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: P633848

Luminaire Tested: GWS-SA2F-750-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633848
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-SA2F-750-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17082.7 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

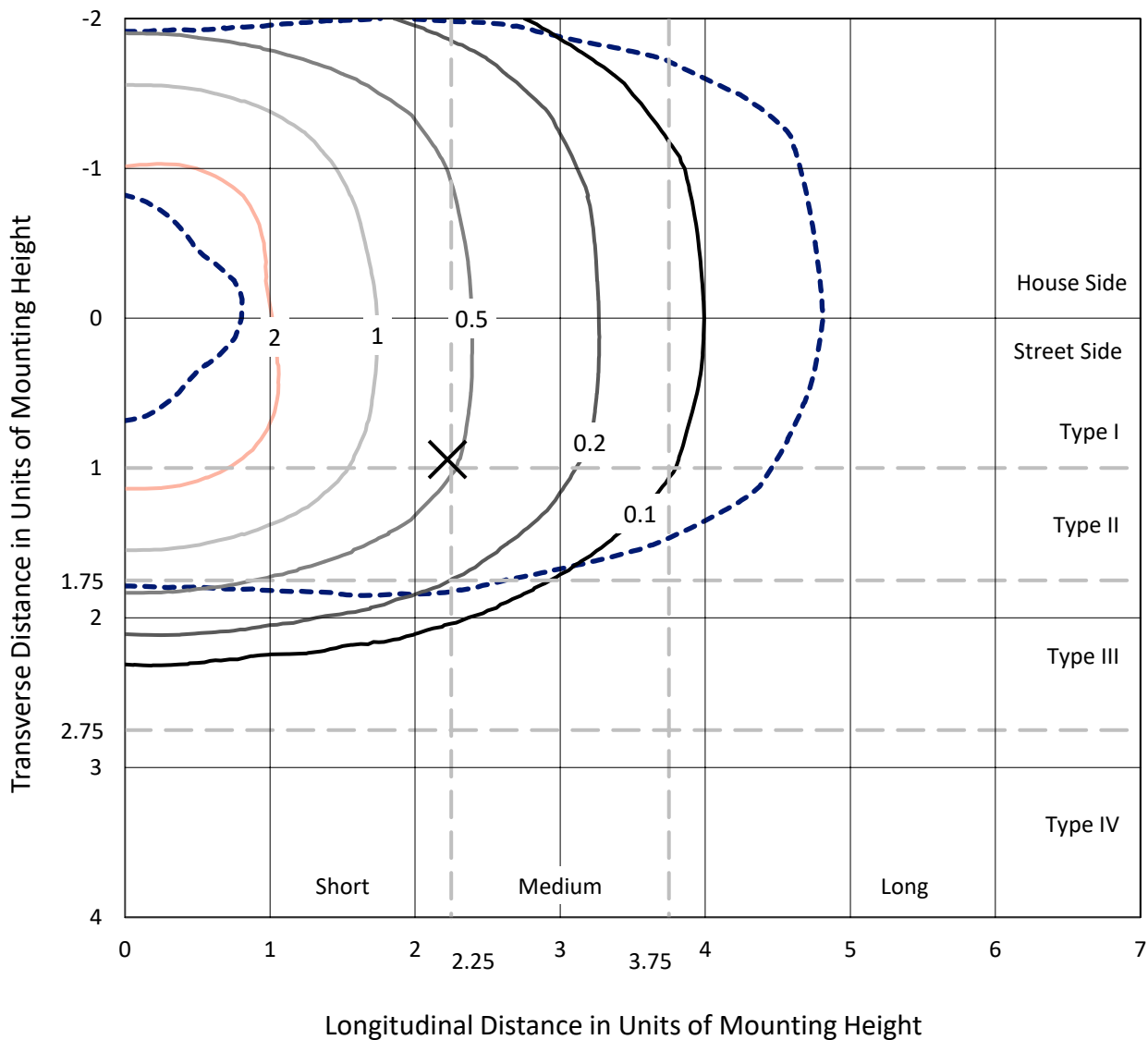
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

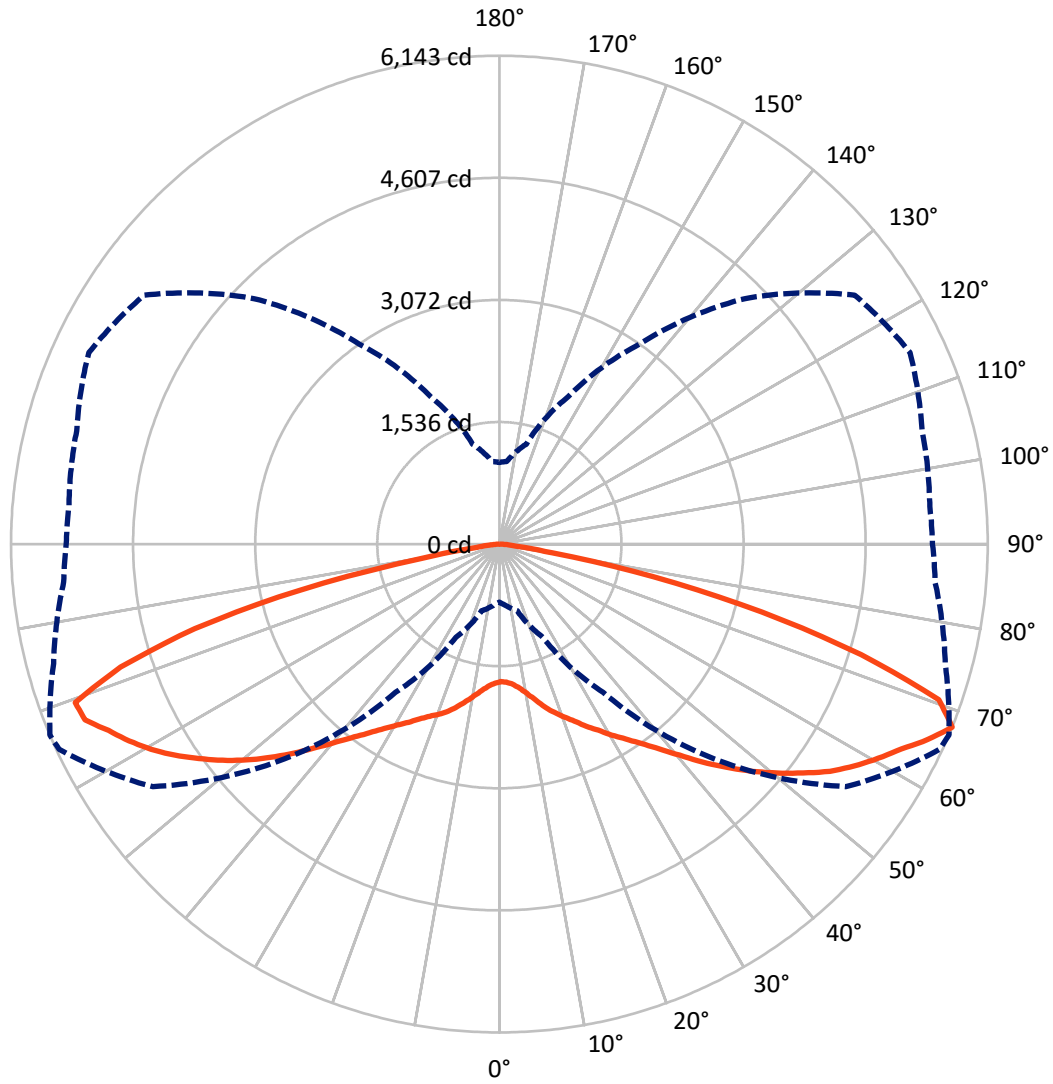
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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 | 8447.1 | 0.0 | 8447.1 |
| | % Fixture | 49.4 | 0.0 | 49.4 |
| Street Side | Lumens | 8635.6 | 0.0 | 8635.6 |
| | % Fixture | 50.6 | 0.0 | 50.6 |
| Total | Lumens | 17082.7 | 0.0 | 17082.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 169.7 | 1.0 |
| 10°-20° | 573.3 | 3.4 |
| 20°-30° | 1124.9 | 6.6 |
| 30°-40° | 1916.4 | 11.2 |
| 40°-50° | 3077.4 | 18.0 |
| 50°-60° | 4181.5 | 24.5 |
| 60°-70° | 3999.9 | 23.4 |
| 70°-80° | 1901.7 | 11.1 |
| 80°-90° | 137.8 | 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° | 17082.7 | 100.0 |
| 0°-180° | 17082.7 | 100.0 |

Coefficient of Utilization



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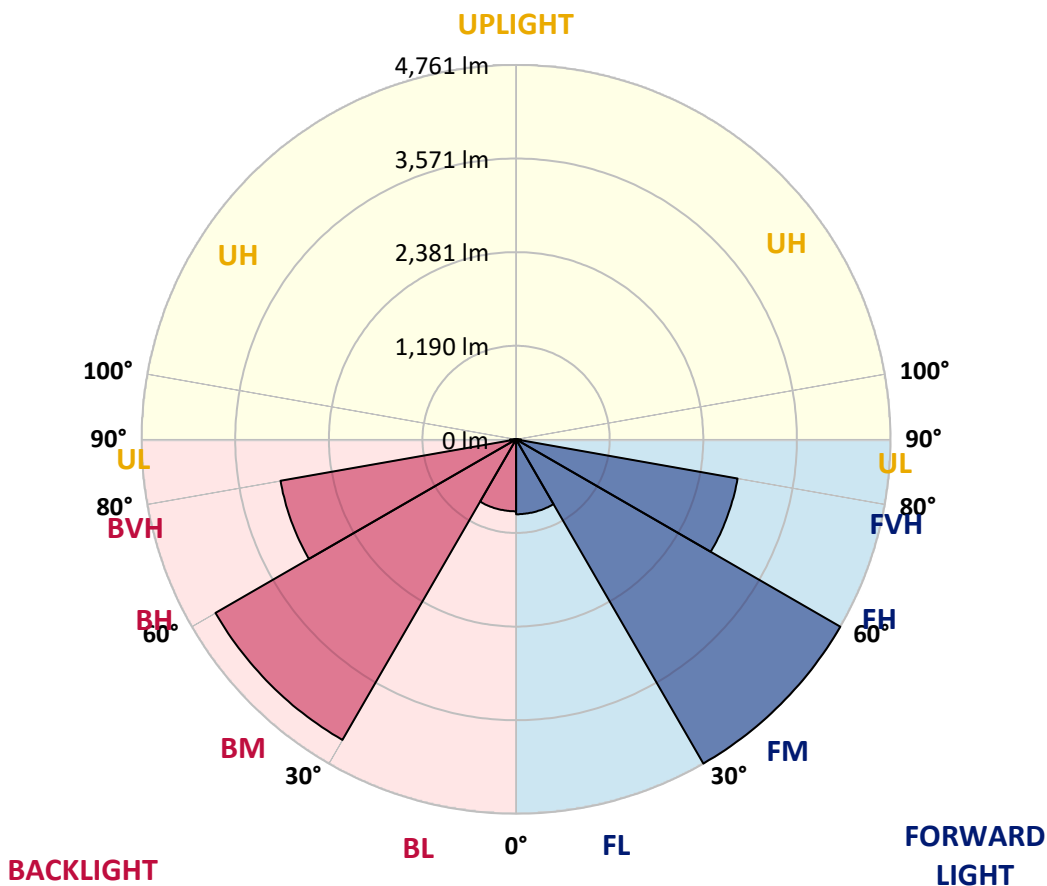
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 952.5 | 5.6 | | | |
| FM (30°-60°) | 4761.1 | 27.9 | | | |
| FH (60°-80°) | 2860.1 | 16.7 | | | G2/5000 |
| FVH (80°-90°) | 61.9 | 0.4 | | | G1/100 |
| BL (0°-30°) | 915.4 | 5.4 | B2/1000 | | |
| BM (30°-60°) | 4414.3 | 25.8 | B3/5000 | | |
| BH (60°-80°) | 3041.5 | 17.8 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 75.9 | 0.4 | | | G1/100 |
| 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° | 1729.7 | 1729.7 | 1729.7 | 1729.7 | 1729.7 | 1729.7 | 1729.7 | 1729.7 | 1729.7 | 1729.7 | 1729.7 |
| 2.5° | 1694.0 | 1696.4 | 1700.0 | 1707.1 | 1714.3 | 1725.0 | 1735.7 | 1734.5 | 1739.2 | 1742.8 | 1746.4 |
| 5° | 1684.5 | 1686.9 | 1692.8 | 1702.4 | 1713.1 | 1730.9 | 1753.5 | 1763.0 | 1770.2 | 1783.3 | 1795.1 |
| 7.5° | 1704.7 | 1709.5 | 1717.8 | 1730.9 | 1747.6 | 1770.2 | 1801.1 | 1817.8 | 1828.5 | 1852.3 | 1872.5 |
| 10° | 1732.1 | 1738.0 | 1754.7 | 1779.7 | 1804.7 | 1839.2 | 1878.4 | 1903.4 | 1910.5 | 1941.5 | 1979.5 |
| 12.5° | 1758.3 | 1765.4 | 1792.8 | 1838.0 | 1883.2 | 1929.6 | 1976.0 | 2006.9 | 2009.3 | 2050.9 | 2093.7 |
| 15° | 1799.9 | 1805.9 | 1842.7 | 1901.0 | 1970.0 | 2034.3 | 2091.4 | 2112.8 | 2122.3 | 2152.0 | 2205.6 |
| 17.5° | 1891.5 | 1898.6 | 1946.2 | 2009.3 | 2081.8 | 2149.7 | 2206.8 | 2224.6 | 2224.6 | 2249.6 | 2293.6 |
| 20° | 1990.2 | 1997.4 | 2060.4 | 2141.3 | 2229.4 | 2298.4 | 2342.4 | 2325.7 | 2319.8 | 2326.9 | 2357.8 |
| 22.5° | 2100.9 | 2114.0 | 2174.6 | 2268.6 | 2376.9 | 2461.3 | 2483.9 | 2434.0 | 2417.3 | 2400.7 | 2407.8 |
| 25° | 2242.4 | 2257.9 | 2317.4 | 2417.3 | 2523.2 | 2612.4 | 2625.5 | 2548.2 | 2538.7 | 2480.4 | 2459.0 |
| 27.5° | 2405.4 | 2417.3 | 2491.1 | 2589.8 | 2688.6 | 2763.5 | 2777.8 | 2682.6 | 2650.5 | 2569.6 | 2519.6 |
| 30° | 2616.0 | 2626.7 | 2690.9 | 2788.5 | 2874.1 | 2926.5 | 2944.3 | 2813.5 | 2788.5 | 2664.8 | 2587.4 |
| 32.5° | 2845.6 | 2850.3 | 2915.8 | 3009.8 | 3085.9 | 3135.9 | 3110.9 | 2958.6 | 2921.7 | 2782.5 | 2676.7 |
| 35° | 3108.5 | 3108.5 | 3193.0 | 3269.1 | 3329.8 | 3344.0 | 3296.5 | 3122.8 | 3079.9 | 2928.9 | 2796.8 |
| 37.5° | 3366.6 | 3373.8 | 3452.3 | 3542.7 | 3596.2 | 3593.9 | 3507.0 | 3316.7 | 3267.9 | 3103.7 | 2957.4 |
| 40° | 3646.2 | 3661.7 | 3740.2 | 3841.3 | 3892.5 | 3885.3 | 3752.1 | 3540.3 | 3490.4 | 3296.5 | 3153.7 |
| 42.5° | 3903.2 | 3928.2 | 4019.8 | 4123.2 | 4179.2 | 4174.4 | 4035.2 | 3797.3 | 3748.5 | 3529.6 | 3386.9 |
| 45° | 4107.8 | 4134.0 | 4248.2 | 4392.1 | 4481.3 | 4473.0 | 4332.6 | 4063.8 | 4004.3 | 3774.7 | 3617.7 |
| 47.5° | 4287.4 | 4314.8 | 4442.1 | 4594.3 | 4735.9 | 4750.2 | 4621.7 | 4332.6 | 4269.6 | 4037.6 | 3860.3 |
| 50° | 4425.4 | 4438.5 | 4581.3 | 4747.8 | 4912.0 | 4991.7 | 4879.9 | 4602.7 | 4526.5 | 4296.9 | 4097.1 |
| 52.5° | 4414.7 | 4432.6 | 4608.6 | 4834.6 | 5054.7 | 5185.6 | 5108.3 | 4857.2 | 4783.5 | 4533.7 | 4338.6 |
| 55° | 4197.0 | 4214.9 | 4424.2 | 4753.8 | 5134.4 | 5327.2 | 5318.8 | 5099.9 | 5046.4 | 4775.2 | 4589.6 |
| 57.5° | 3879.4 | 3918.6 | 4126.8 | 4482.5 | 5029.7 | 5440.2 | 5473.5 | 5321.2 | 5265.3 | 5011.9 | 4838.2 |
| 60° | 3310.7 | 3363.1 | 3603.4 | 4065.0 | 4694.3 | 5402.1 | 5638.8 | 5508.0 | 5473.5 | 5232.0 | 5063.1 |
| 62.5° | 2405.4 | 2443.5 | 2763.5 | 3369.0 | 4197.0 | 5130.9 | 5778.0 | 5700.7 | 5674.5 | 5429.5 | 5266.5 |
| 65° | 1440.6 | 1527.5 | 1784.4 | 2382.8 | 3385.7 | 4619.3 | 5701.9 | 5952.9 | 5925.5 | 5632.9 | 5440.2 |
| 67.5° | 729.2 | 768.5 | 869.6 | 1291.9 | 2276.9 | 3822.3 | 5320.0 | 6109.9 | 6143.2 | 5806.6 | 5502.0 |
| 70° | 452.1 | 462.8 | 491.3 | 637.6 | 1137.3 | 2511.3 | 4350.5 | 5700.7 | 5863.7 | 5779.2 | 5341.4 |
| 72.5° | 362.8 | 365.2 | 370.0 | 397.3 | 546.0 | 1174.2 | 2750.4 | 4464.7 | 4758.5 | 5397.3 | 5111.8 |
| 75° | 301.0 | 302.2 | 303.4 | 311.7 | 340.2 | 479.4 | 1338.3 | 3068.0 | 3411.9 | 4587.2 | 4739.5 |
| 77.5° | 241.5 | 235.5 | 240.3 | 243.9 | 251.0 | 267.7 | 461.6 | 1636.9 | 1985.5 | 3010.9 | 3665.2 |
| 80° | 157.0 | 154.7 | 164.2 | 167.7 | 174.9 | 185.6 | 246.3 | 555.6 | 674.5 | 1095.6 | 1165.8 |
| 82.5° | 84.5 | 79.7 | 99.9 | 96.4 | 99.9 | 108.3 | 145.1 | 203.4 | 228.4 | 330.7 | 279.6 |
| 85° | 26.2 | 26.2 | 27.4 | 32.1 | 39.3 | 38.1 | 63.1 | 99.9 | 110.6 | 141.6 | 104.7 |
| 87.5° | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 5.9 | 13.1 | 20.2 | 27.4 | 48.8 | 36.9 |
| 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° | 1729.7 | 1729.7 | 1729.7 | 1729.7 | 1729.7 | 1729.7 | 1729.7 | 1729.7 | 1729.7 | 1729.7 | 1729.7 |
| 2.5° | 1753.5 | 1742.8 | 1748.8 | 1752.3 | 1751.1 | 1748.8 | 1736.9 | 1734.5 | 1728.5 | 1719.0 | 1716.6 |
| 5° | 1805.9 | 1794.0 | 1795.1 | 1791.6 | 1779.7 | 1764.2 | 1738.0 | 1725.0 | 1714.3 | 1702.4 | 1701.2 |
| 7.5° | 1887.9 | 1874.9 | 1871.3 | 1854.6 | 1821.3 | 1785.6 | 1744.0 | 1720.2 | 1702.4 | 1686.9 | 1684.5 |
| 10° | 1992.6 | 1979.5 | 1967.6 | 1928.4 | 1873.7 | 1826.1 | 1771.4 | 1736.9 | 1710.7 | 1691.7 | 1688.1 |
| 12.5° | 2109.2 | 2098.5 | 2068.8 | 2011.7 | 1946.2 | 1890.3 | 1834.4 | 1791.6 | 1753.5 | 1725.0 | 1721.4 |
| 15° | 2238.9 | 2215.1 | 2169.9 | 2096.1 | 2034.3 | 1989.1 | 1921.2 | 1863.0 | 1802.3 | 1764.2 | 1755.9 |
| 17.5° | 2329.3 | 2309.1 | 2255.5 | 2184.2 | 2135.4 | 2096.1 | 2016.4 | 1933.1 | 1851.1 | 1795.1 | 1783.3 |
| 20° | 2393.5 | 2372.1 | 2311.4 | 2259.1 | 2243.6 | 2210.3 | 2117.5 | 2021.2 | 1926.0 | 1857.0 | 1841.5 |
| 22.5° | 2439.9 | 2417.3 | 2355.5 | 2329.3 | 2350.7 | 2344.8 | 2254.3 | 2144.9 | 2031.9 | 1949.8 | 1930.8 |
| 25° | 2483.9 | 2462.5 | 2407.8 | 2417.3 | 2474.4 | 2492.3 | 2394.7 | 2267.4 | 2139.0 | 2042.6 | 2020.0 |
| 27.5° | 2525.6 | 2498.2 | 2473.2 | 2525.6 | 2606.5 | 2639.8 | 2536.3 | 2392.3 | 2253.2 | 2154.4 | 2136.6 |
| 30° | 2589.8 | 2557.7 | 2554.1 | 2630.3 | 2758.7 | 2787.3 | 2673.1 | 2529.1 | 2391.2 | 2291.2 | 2268.6 |
| 32.5° | 2670.7 | 2641.0 | 2643.4 | 2757.6 | 2906.3 | 2930.1 | 2832.5 | 2698.1 | 2560.1 | 2460.1 | 2429.2 |
| 35° | 2780.2 | 2743.3 | 2763.5 | 2903.9 | 3053.8 | 3097.8 | 3019.3 | 2907.4 | 2773.0 | 2670.7 | 2636.2 |
| 37.5° | 2931.2 | 2877.7 | 2919.3 | 3066.9 | 3217.9 | 3283.4 | 3222.7 | 3139.4 | 3006.2 | 2902.7 | 2870.6 |
| 40° | 3124.0 | 3079.9 | 3096.6 | 3259.6 | 3415.4 | 3493.9 | 3455.9 | 3373.8 | 3241.7 | 3133.5 | 3096.6 |
| 42.5° | 3352.4 | 3308.4 | 3302.4 | 3476.1 | 3631.9 | 3750.9 | 3714.0 | 3639.1 | 3502.3 | 3378.5 | 3342.9 |
| 45° | 3576.0 | 3535.6 | 3543.9 | 3721.2 | 3896.0 | 4025.7 | 3988.8 | 3900.8 | 3752.1 | 3609.3 | 3580.8 |
| 47.5° | 3809.2 | 3775.9 | 3783.0 | 3971.0 | 4163.7 | 4293.4 | 4247.0 | 4139.9 | 3966.2 | 3813.9 | 3779.4 |
| 50° | 4048.3 | 4010.2 | 4020.9 | 4218.4 | 4426.6 | 4549.1 | 4477.8 | 4319.5 | 4128.0 | 3979.3 | 3949.6 |
| 52.5° | 4286.2 | 4241.0 | 4268.4 | 4455.2 | 4670.5 | 4768.0 | 4636.0 | 4444.4 | 4258.9 | 4111.4 | 4078.0 |
| 55° | 4559.8 | 4512.3 | 4482.5 | 4682.4 | 4895.3 | 4935.8 | 4754.9 | 4531.3 | 4311.2 | 4143.5 | 4123.2 |
| 57.5° | 4809.7 | 4769.2 | 4713.3 | 4913.2 | 5070.2 | 5040.5 | 4846.5 | 4507.5 | 4183.9 | 3968.6 | 3940.0 |
| 60° | 5033.3 | 4998.8 | 4950.0 | 5120.2 | 5191.5 | 5124.9 | 4772.8 | 4225.6 | 3869.9 | 3645.0 | 3631.9 |
| 62.5° | 5239.1 | 5202.2 | 5157.0 | 5302.2 | 5292.7 | 5138.0 | 4437.3 | 3792.5 | 3316.7 | 3075.2 | 3053.8 |
| 65° | 5402.1 | 5368.8 | 5355.7 | 5469.9 | 5454.4 | 4882.2 | 3915.1 | 3083.5 | 2423.3 | 2150.8 | 2142.5 |
| 67.5° | 5448.5 | 5435.4 | 5505.6 | 5699.5 | 5458.0 | 4368.3 | 3070.4 | 2045.0 | 1301.5 | 1043.3 | 1027.8 |
| 70° | 5274.8 | 5273.6 | 5474.7 | 5751.8 | 4963.1 | 3336.9 | 1811.8 | 922.0 | 654.3 | 580.5 | 571.0 |
| 72.5° | 5048.8 | 5045.2 | 5204.6 | 4961.9 | 3680.7 | 1826.1 | 762.6 | 493.7 | 409.2 | 389.0 | 389.0 |
| 75° | 4677.6 | 4668.1 | 4788.3 | 3774.7 | 2070.0 | 687.6 | 404.5 | 339.0 | 321.2 | 317.6 | 317.6 |
| 77.5° | 3812.8 | 3733.1 | 3543.9 | 2332.9 | 722.1 | 337.9 | 267.7 | 266.5 | 255.8 | 254.6 | 254.6 |
| 80° | 1253.9 | 1253.9 | 1457.3 | 889.8 | 318.8 | 208.2 | 189.2 | 198.7 | 188.0 | 180.8 | 179.6 |
| 82.5° | 204.6 | 281.9 | 400.9 | 254.6 | 172.5 | 129.7 | 116.6 | 123.7 | 129.7 | 103.5 | 103.5 |
| 85° | 80.9 | 105.9 | 154.7 | 119.0 | 79.7 | 52.3 | 55.9 | 61.9 | 54.7 | 47.6 | 46.4 |
| 87.5° | 30.9 | 38.1 | 54.7 | 28.6 | 16.7 | 9.5 | 5.9 | 5.9 | 4.8 | 4.8 | 4.8 |
| 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)