

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: P630820

Luminaire Tested: GWS-SA1E-740-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-740-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7716.4 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 58.4
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

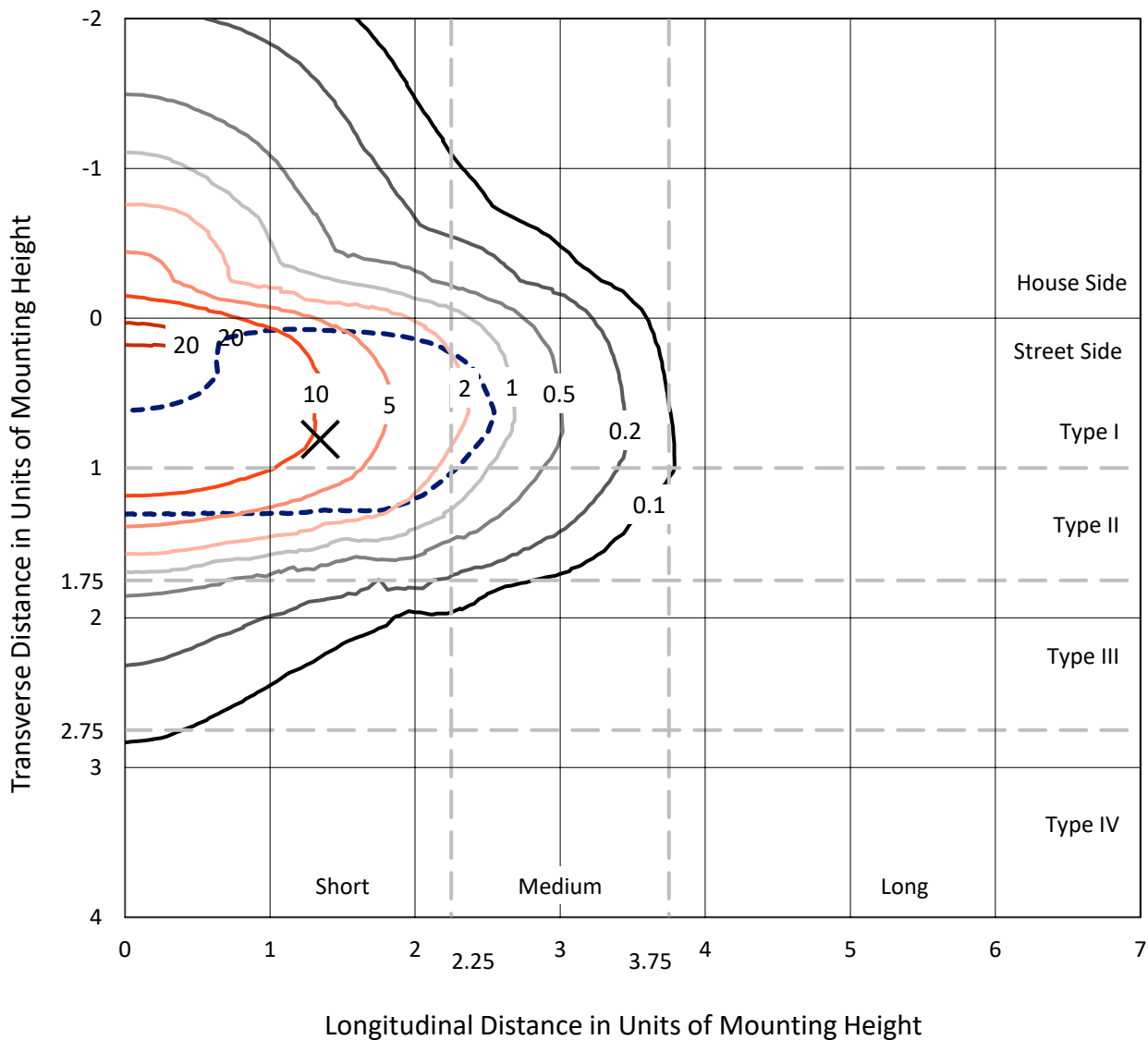


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Iso-Footcandle Lines of Horizontal Illumination

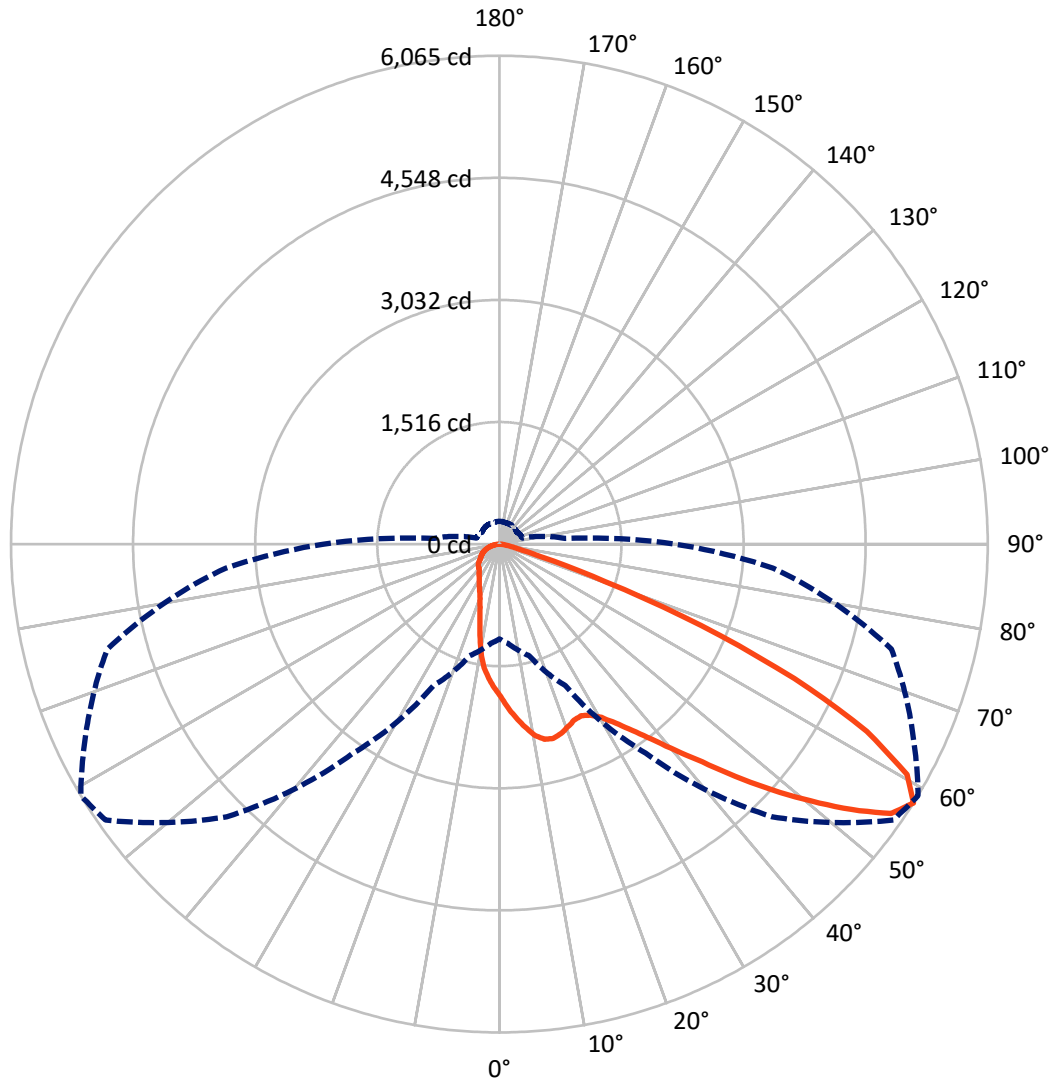
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1197.5 | 0.0 | 1197.5 |
| | % Fixture | 15.5 | 0.0 | 15.5 |
| Street Side | Lumens | 6518.9 | 0.0 | 6518.9 |
| | % Fixture | 84.5 | 0.0 | 84.5 |
| Total | Lumens | 7716.4 | 0.0 | 7716.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 175.9 | 2.3 |
| 10°-20° | 445.7 | 5.8 |
| 20°-30° | 722.5 | 9.4 |
| 30°-40° | 1162.2 | 15.1 |
| 40°-50° | 1804.7 | 23.4 |
| 50°-60° | 1943.9 | 25.2 |
| 60°-70° | 1128.2 | 14.6 |
| 70°-80° | 294.5 | 3.8 |
| 80°-90° | 38.8 | 0.5 |
| 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° | 7716.4 | 100.0 |
| 0°-180° | 7716.4 | 100.0 |

Coefficient of Utilization



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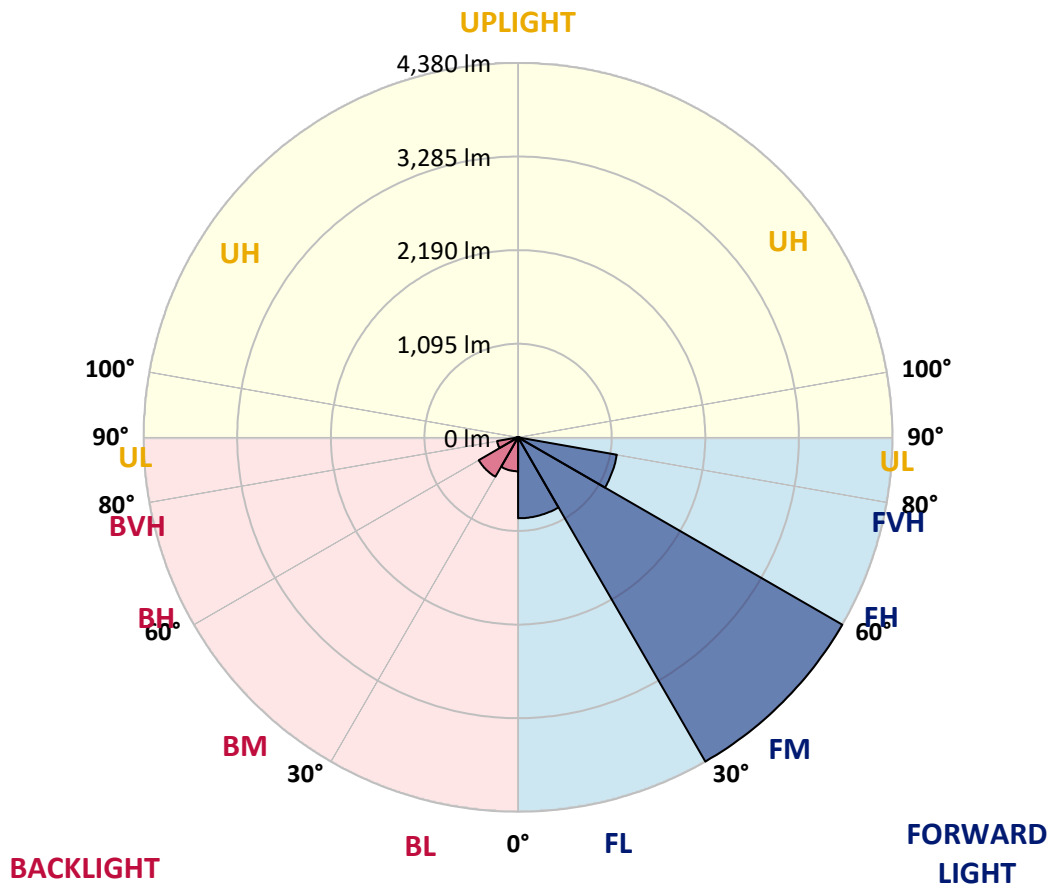
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 946.7 | 12.3 | | | |
| FM (30°-60°) | 4379.9 | 56.8 | | | |
| FH (60°-80°) | 1173.6 | 15.2 | | | G1/1800 |
| FVH (80°-90°) | 18.6 | 0.2 | | | G1/100 |
| BL (0°-30°) | 397.3 | 5.1 | B1/500 | | |
| BM (30°-60°) | 530.9 | 6.9 | B1/1000 | | |
| BH (60°-80°) | 249.1 | 3.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 20.2 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1894.2 | 1894.2 | 1894.2 | 1894.2 | 1894.2 | 1894.2 | 1894.2 | 1894.2 | 1894.2 | 1894.2 | 1894.2 |
| 2.5° | 2148.5 | 2130.5 | 2143.0 | 2120.7 | 2111.5 | 2087.1 | 2055.6 | 2034.4 | 2001.8 | 1959.4 | 1922.5 |
| 5° | 2361.9 | 2349.4 | 2352.2 | 2328.3 | 2307.1 | 2266.3 | 2201.7 | 2165.8 | 2110.4 | 2025.1 | 1945.8 |
| 7.5° | 2355.4 | 2370.1 | 2378.2 | 2398.9 | 2404.9 | 2401.0 | 2342.9 | 2292.9 | 2232.1 | 2103.9 | 1984.4 |
| 10° | 2111.5 | 2139.2 | 2164.2 | 2234.8 | 2320.7 | 2429.3 | 2442.9 | 2413.0 | 2351.6 | 2204.4 | 2030.6 |
| 12.5° | 1845.9 | 1867.1 | 1889.3 | 1974.1 | 2105.5 | 2322.8 | 2470.0 | 2488.5 | 2464.1 | 2303.8 | 2082.7 |
| 15° | 1715.5 | 1725.3 | 1746.5 | 1802.4 | 1907.3 | 2148.5 | 2422.8 | 2503.7 | 2547.7 | 2409.2 | 2141.4 |
| 17.5° | 1710.1 | 1714.4 | 1724.7 | 1754.6 | 1827.4 | 2013.7 | 2337.5 | 2473.3 | 2613.5 | 2520.6 | 2209.8 |
| 20° | 1822.5 | 1811.1 | 1804.6 | 1804.0 | 1839.9 | 1968.6 | 2254.9 | 2424.4 | 2644.4 | 2634.6 | 2283.2 |
| 22.5° | 1978.4 | 1982.2 | 1968.1 | 1933.3 | 1929.0 | 2000.7 | 2213.6 | 2375.0 | 2653.6 | 2735.7 | 2351.1 |
| 25° | 2199.5 | 2218.5 | 2176.7 | 2110.4 | 2077.8 | 2093.6 | 2239.2 | 2359.8 | 2652.6 | 2819.9 | 2393.4 |
| 27.5° | 2457.5 | 2472.2 | 2429.8 | 2342.9 | 2275.6 | 2237.5 | 2315.2 | 2404.9 | 2661.8 | 2892.7 | 2419.0 |
| 30° | 2751.4 | 2756.3 | 2698.2 | 2606.9 | 2508.6 | 2427.1 | 2441.8 | 2497.7 | 2709.1 | 2988.3 | 2448.9 |
| 32.5° | 3110.5 | 3131.1 | 3043.1 | 2898.6 | 2761.2 | 2656.9 | 2611.8 | 2647.7 | 2811.2 | 3101.3 | 2495.0 |
| 35° | 3566.3 | 3573.3 | 3461.4 | 3254.5 | 3060.0 | 2915.5 | 2821.0 | 2840.0 | 2966.5 | 3259.3 | 2564.6 |
| 37.5° | 3996.0 | 4003.0 | 3884.1 | 3691.7 | 3413.6 | 3215.9 | 3079.0 | 3070.3 | 3165.4 | 3482.6 | 2678.1 |
| 40° | 4268.7 | 4288.8 | 4235.5 | 4114.9 | 3849.3 | 3582.6 | 3396.8 | 3366.9 | 3426.1 | 3755.9 | 2836.2 |
| 42.5° | 4415.3 | 4424.0 | 4422.9 | 4438.7 | 4280.6 | 4015.5 | 3755.3 | 3695.6 | 3735.2 | 4050.8 | 2995.9 |
| 45° | 4416.4 | 4438.1 | 4496.3 | 4647.8 | 4654.9 | 4489.7 | 4208.4 | 4114.9 | 4078.5 | 4348.0 | 3162.6 |
| 47.5° | 4218.7 | 4242.0 | 4401.7 | 4700.0 | 4920.0 | 4957.5 | 4751.0 | 4563.6 | 4410.4 | 4603.8 | 3299.5 |
| 50° | 3620.0 | 3678.7 | 3982.9 | 4510.4 | 4972.1 | 5332.3 | 5268.7 | 5014.5 | 4705.4 | 4801.6 | 3385.4 |
| 52.5° | 3100.2 | 3098.0 | 3285.4 | 3974.8 | 4754.3 | 5497.4 | 5769.6 | 5478.4 | 4997.1 | 4927.0 | 3407.1 |
| 55° | 2270.1 | 2282.6 | 2474.4 | 3039.9 | 4173.0 | 5337.7 | 6045.0 | 5905.4 | 5331.7 | 4993.9 | 3398.4 |
| 57.5° | 1177.2 | 1239.1 | 1435.7 | 1939.9 | 3170.8 | 4788.0 | 5971.7 | 6064.6 | 5671.8 | 5041.1 | 3409.8 |
| 60° | 594.8 | 582.9 | 653.5 | 926.2 | 1837.2 | 3739.6 | 5519.7 | 5815.8 | 5733.2 | 5078.1 | 3416.9 |
| 62.5° | 397.1 | 393.8 | 374.3 | 429.1 | 750.7 | 2214.7 | 4705.4 | 5120.4 | 5306.8 | 4991.1 | 3326.7 |
| 65° | 343.9 | 337.3 | 301.5 | 299.3 | 364.5 | 918.6 | 3448.9 | 4025.3 | 4386.0 | 4604.9 | 3111.0 |
| 67.5° | 309.6 | 299.9 | 263.5 | 245.5 | 261.8 | 403.6 | 1943.7 | 2699.8 | 3238.7 | 3894.4 | 2638.4 |
| 70° | 276.5 | 271.6 | 235.2 | 209.1 | 207.5 | 246.1 | 716.0 | 1393.4 | 1981.7 | 2656.9 | 1929.0 |
| 72.5° | 247.7 | 239.0 | 208.1 | 183.1 | 170.6 | 174.4 | 310.7 | 536.7 | 1025.6 | 1657.4 | 1153.8 |
| 75° | 214.6 | 208.1 | 180.9 | 155.9 | 140.7 | 127.7 | 189.6 | 248.3 | 467.7 | 787.7 | 544.9 |
| 77.5° | 165.7 | 161.3 | 142.9 | 123.9 | 115.2 | 95.1 | 115.2 | 156.4 | 216.2 | 331.9 | 283.6 |
| 80° | 96.2 | 98.9 | 106.5 | 96.7 | 84.7 | 67.9 | 75.0 | 90.2 | 129.8 | 179.8 | 160.8 |
| 82.5° | 48.3 | 51.6 | 69.0 | 56.0 | 50.5 | 39.7 | 44.5 | 53.2 | 67.9 | 99.4 | 63.0 |
| 85° | 3.8 | 3.8 | 12.5 | 14.1 | 17.4 | 14.1 | 17.9 | 21.7 | 31.0 | 39.7 | 21.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 2.7 | 4.9 | 9.2 | 6.0 |
| 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° | 1894.2 | 1894.2 | 1894.2 | 1894.2 | 1894.2 | 1894.2 | 1894.2 | 1894.2 | 1894.2 | 1894.2 | 1894.2 |
| 2.5° | 1897.5 | 1869.8 | 1836.6 | 1809.5 | 1767.7 | 1745.4 | 1717.1 | 1682.4 | 1668.2 | 1661.7 | 1657.9 |
| 5° | 1901.3 | 1852.4 | 1781.8 | 1716.6 | 1644.3 | 1587.3 | 1523.7 | 1457.5 | 1419.4 | 1410.2 | 1403.7 |
| 7.5° | 1915.4 | 1847.0 | 1734.5 | 1627.0 | 1492.8 | 1368.4 | 1247.2 | 1127.2 | 1065.8 | 1042.4 | 1040.3 |
| 10° | 1935.0 | 1844.8 | 1686.7 | 1508.0 | 1281.5 | 1084.8 | 943.0 | 849.1 | 809.4 | 796.4 | 792.0 |
| 12.5° | 1959.4 | 1843.2 | 1623.7 | 1342.8 | 1037.6 | 851.8 | 770.8 | 755.6 | 761.1 | 760.0 | 760.0 |
| 15° | 1990.4 | 1845.3 | 1547.6 | 1156.0 | 839.3 | 739.3 | 741.0 | 758.9 | 775.7 | 778.4 | 778.4 |
| 17.5° | 2024.1 | 1843.2 | 1437.4 | 968.6 | 720.3 | 712.7 | 737.7 | 762.7 | 777.9 | 780.1 | 780.1 |
| 20° | 2060.4 | 1832.8 | 1298.3 | 792.0 | 668.2 | 695.9 | 723.0 | 742.6 | 751.8 | 754.0 | 754.0 |
| 22.5° | 2082.2 | 1803.5 | 1147.3 | 670.3 | 635.0 | 669.3 | 687.2 | 707.3 | 708.4 | 691.0 | 690.4 |
| 25° | 2078.9 | 1748.6 | 975.1 | 592.1 | 599.7 | 629.6 | 652.4 | 638.3 | 620.9 | 611.1 | 609.5 |
| 27.5° | 2058.3 | 1666.1 | 799.6 | 532.9 | 557.9 | 591.6 | 584.5 | 572.6 | 568.2 | 557.3 | 556.3 |
| 30° | 2032.2 | 1564.5 | 642.1 | 486.7 | 514.4 | 545.4 | 534.5 | 533.4 | 529.1 | 517.1 | 517.1 |
| 32.5° | 2007.2 | 1459.6 | 523.1 | 452.5 | 486.7 | 488.9 | 504.1 | 505.2 | 503.0 | 482.4 | 480.2 |
| 35° | 2000.2 | 1354.8 | 442.7 | 425.3 | 459.6 | 458.5 | 480.2 | 479.7 | 442.2 | 413.4 | 412.9 |
| 37.5° | 2021.3 | 1248.3 | 394.9 | 403.1 | 422.1 | 436.2 | 453.6 | 422.1 | 409.6 | 392.2 | 391.1 |
| 40° | 2066.4 | 1150.0 | 370.5 | 390.0 | 398.2 | 418.8 | 391.7 | 393.8 | 390.6 | 377.5 | 375.9 |
| 42.5° | 2126.2 | 1066.3 | 356.9 | 385.7 | 384.6 | 390.0 | 360.2 | 368.8 | 373.7 | 364.0 | 362.3 |
| 45° | 2183.8 | 993.6 | 349.8 | 369.4 | 374.8 | 343.3 | 337.3 | 345.5 | 353.1 | 349.3 | 347.7 |
| 47.5° | 2226.1 | 930.5 | 346.0 | 347.1 | 362.3 | 327.6 | 317.8 | 321.6 | 330.8 | 332.5 | 331.9 |
| 50° | 2239.2 | 876.8 | 341.7 | 328.7 | 325.4 | 311.8 | 304.2 | 303.1 | 314.0 | 321.6 | 322.7 |
| 52.5° | 2214.2 | 829.0 | 330.3 | 312.4 | 296.6 | 298.8 | 296.1 | 290.6 | 301.5 | 311.8 | 312.9 |
| 55° | 2177.2 | 801.8 | 312.4 | 296.6 | 278.1 | 286.8 | 287.9 | 283.0 | 290.1 | 297.1 | 297.1 |
| 57.5° | 2180.0 | 817.6 | 295.0 | 281.9 | 261.8 | 273.2 | 279.2 | 277.0 | 277.0 | 282.5 | 283.0 |
| 60° | 2197.9 | 840.4 | 283.6 | 263.5 | 245.5 | 257.5 | 271.1 | 268.9 | 264.0 | 271.1 | 271.1 |
| 62.5° | 2146.3 | 809.9 | 276.0 | 245.5 | 228.2 | 242.3 | 258.6 | 257.5 | 252.1 | 263.5 | 264.6 |
| 65° | 1994.2 | 728.5 | 267.3 | 223.3 | 210.8 | 227.1 | 241.2 | 245.0 | 240.1 | 255.3 | 258.0 |
| 67.5° | 1671.5 | 612.8 | 250.4 | 202.1 | 193.4 | 208.6 | 222.2 | 227.6 | 223.8 | 241.7 | 243.9 |
| 70° | 1246.2 | 496.0 | 223.8 | 178.7 | 172.2 | 185.8 | 198.3 | 200.4 | 201.0 | 222.2 | 224.4 |
| 72.5° | 794.7 | 385.7 | 188.5 | 152.6 | 147.8 | 158.1 | 167.3 | 176.0 | 179.8 | 199.9 | 199.4 |
| 75° | 443.3 | 286.8 | 151.6 | 129.3 | 120.6 | 128.7 | 139.6 | 149.9 | 160.8 | 190.1 | 193.4 |
| 77.5° | 255.3 | 201.5 | 120.1 | 103.8 | 93.4 | 102.1 | 111.4 | 126.0 | 158.6 | 184.2 | 180.9 |
| 80° | 144.0 | 130.9 | 90.7 | 76.1 | 69.5 | 76.1 | 83.1 | 110.8 | 124.9 | 135.8 | 137.4 |
| 82.5° | 67.4 | 73.3 | 61.9 | 46.7 | 46.7 | 51.1 | 57.6 | 85.8 | 94.5 | 77.1 | 67.4 |
| 85° | 24.4 | 33.1 | 30.4 | 23.9 | 21.2 | 20.6 | 35.9 | 48.9 | 30.4 | 27.2 | 23.4 |
| 87.5° | 6.5 | 9.2 | 8.7 | 6.0 | 3.3 | 2.7 | 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)