

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: P629872

Luminaire Tested: GWS-SA1C-740-U-T4WR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1C-740-U-T4WR-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4765.4 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

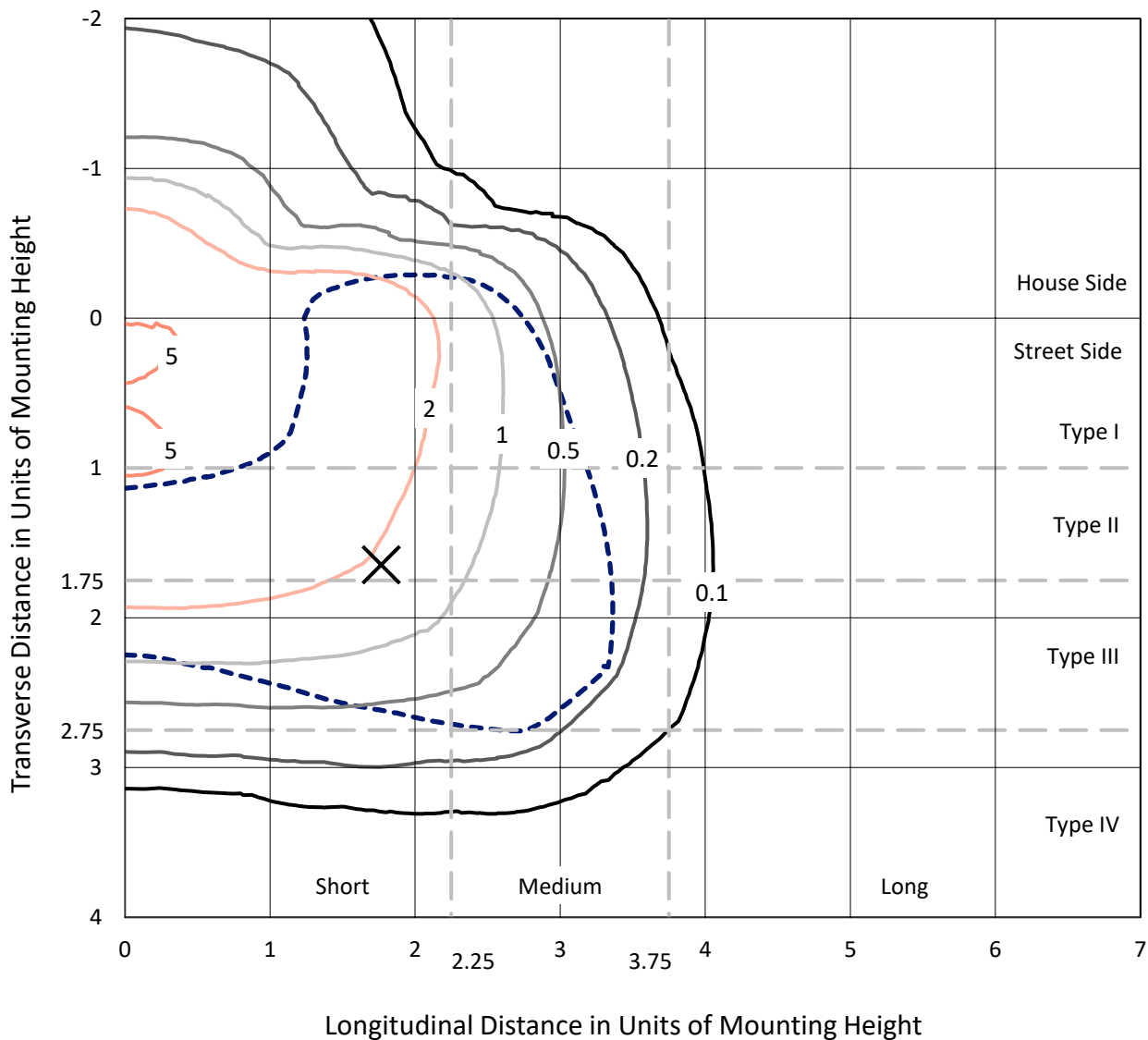
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

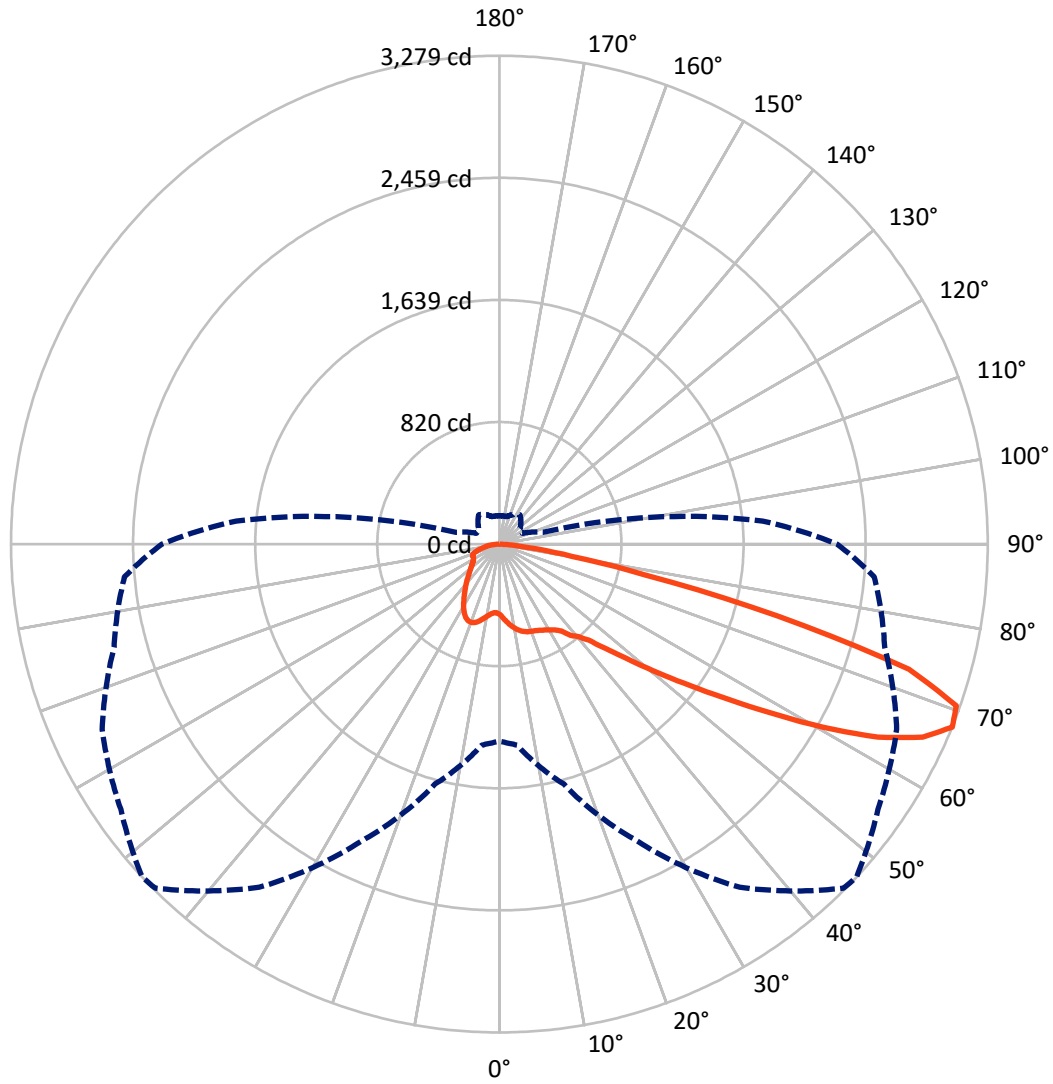
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1086.1 | 0.0 | 1086.1 |
| | % Fixture | 22.8 | 0.0 | 22.8 |
| Street Side | Lumens | 3679.3 | 0.0 | 3679.3 |
| | % Fixture | 77.2 | 0.0 | 77.2 |
| Total | Lumens | 4765.4 | 0.0 | 4765.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 48.3 | 1.0 |
| 10°-20° | 160.9 | 3.4 |
| 20°-30° | 273.4 | 5.7 |
| 30°-40° | 400.5 | 8.4 |
| 40°-50° | 610.2 | 12.8 |
| 50°-60° | 1091.8 | 22.9 |
| 60°-70° | 1456.9 | 30.6 |
| 70°-80° | 658.9 | 13.8 |
| 80°-90° | 64.5 | 1.4 |
| 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° | 4765.4 | 100.0 |
| 0°-180° | 4765.4 | 100.0 |

Coefficient of Utilization



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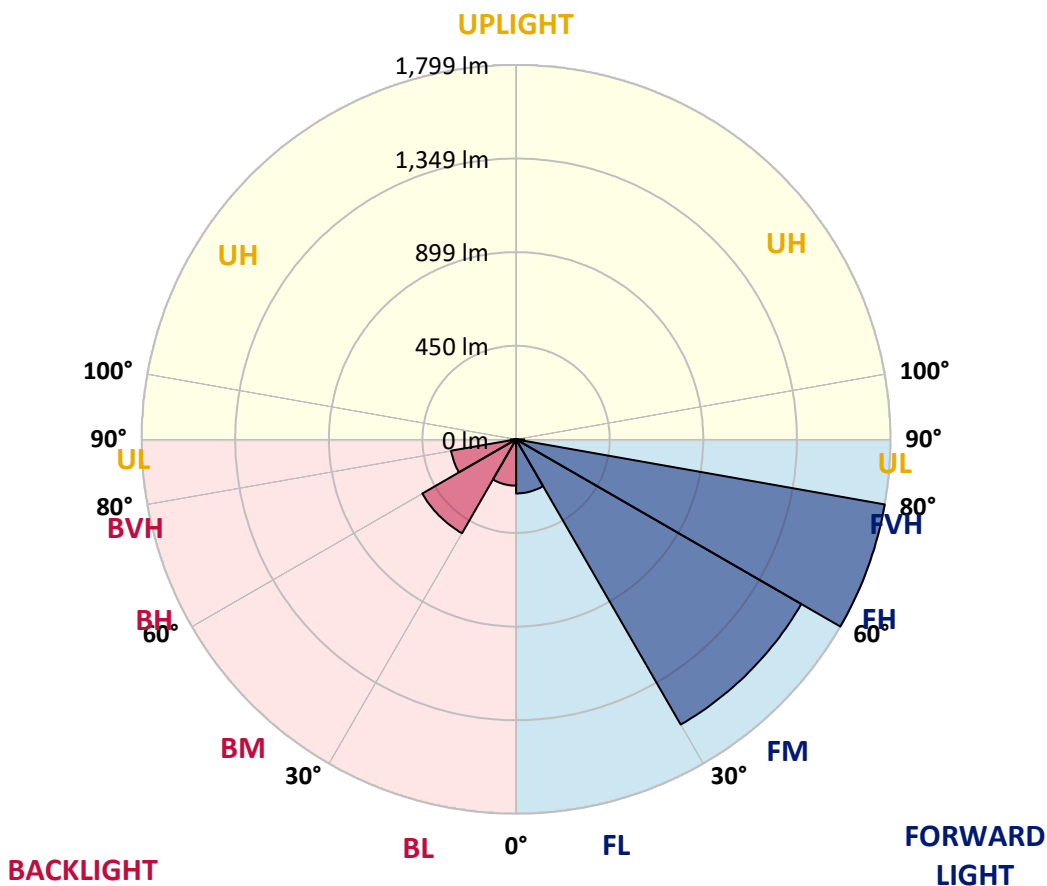
CATALOG NUMBER: GWS-SA1C-740-U-T4WR-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 259.9 | 5.5 | | | |
| FM (30°-60°) | 1582.2 | 33.2 | | | |
| FH (60°-80°) | 1798.9 | 37.7 | | | G1/1800 |
| FVH (80°-90°) | 38.4 | 0.8 | | | G1/100 |
| BL (0°-30°) | 222.6 | 4.7 | B1/500 | | |
| BM (30°-60°) | 520.4 | 10.9 | B1/1000 | | |
| BH (60°-80°) | 316.9 | 6.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 26.2 | 0.5 | | | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 472.4 | 472.4 | 472.4 | 472.4 | 472.4 | 472.4 | 472.4 | 472.4 | 472.4 | 472.4 | 472.4 |
| 2.5° | 503.8 | 505.5 | 505.1 | 502.4 | 500.7 | 497.6 | 497.9 | 493.1 | 485.8 | 481.0 | 475.5 |
| 5° | 548.2 | 551.0 | 547.5 | 543.0 | 536.1 | 526.2 | 525.1 | 514.1 | 500.3 | 490.7 | 480.7 |
| 7.5° | 586.8 | 588.5 | 584.4 | 576.8 | 566.8 | 553.4 | 551.0 | 537.9 | 520.6 | 505.5 | 491.0 |
| 10° | 616.8 | 618.8 | 613.3 | 603.3 | 590.2 | 576.8 | 575.1 | 561.6 | 543.4 | 525.5 | 507.2 |
| 12.5° | 642.3 | 643.0 | 637.1 | 623.7 | 609.5 | 595.8 | 594.0 | 581.6 | 564.7 | 546.5 | 526.5 |
| 15° | 657.1 | 657.4 | 650.2 | 635.4 | 621.9 | 609.9 | 608.9 | 598.2 | 582.7 | 565.4 | 544.1 |
| 17.5° | 656.1 | 656.7 | 651.6 | 638.5 | 626.8 | 619.5 | 618.5 | 611.6 | 599.5 | 584.0 | 562.7 |
| 20° | 643.3 | 644.0 | 640.6 | 631.9 | 625.7 | 623.7 | 624.0 | 621.9 | 614.7 | 602.0 | 580.3 |
| 22.5° | 633.3 | 634.3 | 631.2 | 625.0 | 624.4 | 629.2 | 630.2 | 631.2 | 627.8 | 616.4 | 595.4 |
| 25° | 638.1 | 639.9 | 635.0 | 626.4 | 627.8 | 638.5 | 640.6 | 644.0 | 641.2 | 631.6 | 613.3 |
| 27.5° | 671.6 | 672.6 | 660.2 | 642.6 | 638.5 | 649.9 | 653.0 | 658.5 | 656.4 | 647.4 | 633.3 |
| 30° | 749.1 | 748.4 | 721.9 | 678.8 | 661.6 | 666.0 | 668.5 | 676.4 | 677.1 | 671.2 | 657.8 |
| 32.5° | 858.3 | 854.9 | 813.9 | 745.3 | 695.3 | 684.3 | 687.1 | 697.7 | 705.7 | 699.5 | 681.2 |
| 35° | 973.7 | 970.6 | 925.5 | 845.2 | 757.7 | 719.5 | 716.4 | 724.6 | 736.7 | 719.5 | 693.3 |
| 37.5° | 1083.7 | 1078.8 | 1032.7 | 933.4 | 834.5 | 781.1 | 776.7 | 768.4 | 761.1 | 728.1 | 708.1 |
| 40° | 1205.6 | 1200.1 | 1159.8 | 1047.5 | 919.3 | 828.3 | 817.0 | 784.2 | 777.7 | 756.7 | 746.7 |
| 42.5° | 1335.9 | 1335.9 | 1302.5 | 1191.9 | 1021.6 | 895.9 | 881.1 | 831.8 | 838.7 | 824.9 | 813.2 |
| 45° | 1466.1 | 1469.9 | 1443.4 | 1337.3 | 1158.4 | 1023.4 | 999.6 | 929.6 | 946.2 | 940.0 | 934.1 |
| 47.5° | 1577.1 | 1584.3 | 1579.2 | 1485.8 | 1325.9 | 1178.4 | 1142.2 | 1069.5 | 1105.0 | 1119.8 | 1136.4 |
| 50° | 1696.7 | 1704.6 | 1699.4 | 1662.5 | 1522.0 | 1366.2 | 1333.8 | 1258.7 | 1319.7 | 1364.1 | 1418.2 |
| 52.5° | 1874.1 | 1885.5 | 1842.4 | 1828.3 | 1760.1 | 1579.5 | 1550.6 | 1465.1 | 1575.7 | 1649.4 | 1770.0 |
| 55° | 2024.0 | 2023.6 | 2008.5 | 2040.9 | 2015.7 | 1840.3 | 1808.3 | 1730.8 | 1872.0 | 1950.3 | 2126.7 |
| 57.5° | 2093.6 | 2101.9 | 2153.9 | 2245.5 | 2295.9 | 2159.1 | 2128.4 | 2049.1 | 2190.1 | 2230.7 | 2421.3 |
| 60° | 2129.4 | 2139.8 | 2240.4 | 2421.6 | 2557.0 | 2507.1 | 2495.0 | 2394.1 | 2473.3 | 2468.5 | 2669.7 |
| 62.5° | 2079.1 | 2099.8 | 2261.4 | 2502.2 | 2743.4 | 2856.8 | 2853.0 | 2700.4 | 2714.2 | 2667.0 | 2823.7 |
| 65° | 1848.3 | 1870.7 | 2124.3 | 2461.9 | 2849.9 | 3122.8 | 3123.8 | 2977.8 | 2899.2 | 2763.4 | 2797.9 |
| 67.5° | 1321.8 | 1353.8 | 1667.4 | 2202.8 | 2812.4 | 3266.5 | 3278.6 | 3103.5 | 2942.6 | 2678.0 | 2526.4 |
| 70° | 720.5 | 743.9 | 989.6 | 1601.2 | 2474.0 | 3232.0 | 3254.4 | 3042.9 | 2751.0 | 2316.5 | 1944.7 |
| 72.5° | 327.3 | 334.9 | 460.3 | 878.6 | 1690.1 | 2782.0 | 2875.8 | 2715.5 | 2259.3 | 1711.1 | 1236.7 |
| 75° | 149.9 | 153.3 | 200.5 | 420.4 | 883.1 | 1861.7 | 1927.5 | 2022.6 | 1572.3 | 1080.6 | 644.7 |
| 77.5° | 94.1 | 95.1 | 114.1 | 192.3 | 440.4 | 929.3 | 998.6 | 1204.3 | 920.7 | 534.8 | 269.5 |
| 80° | 55.5 | 56.5 | 71.0 | 104.1 | 206.7 | 425.2 | 491.0 | 476.2 | 432.8 | 230.9 | 122.7 |
| 82.5° | 27.9 | 28.9 | 41.0 | 59.3 | 112.7 | 169.2 | 199.2 | 200.2 | 161.3 | 125.1 | 69.3 |
| 85° | 10.0 | 10.3 | 13.4 | 23.4 | 47.9 | 55.8 | 62.4 | 76.1 | 78.9 | 72.7 | 33.4 |
| 87.5° | 0.0 | 0.0 | 0.3 | 0.7 | 1.4 | 5.5 | 5.9 | 11.0 | 23.1 | 25.8 | 13.4 |
| 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° | 472.4 | 472.4 | 472.4 | 472.4 | 472.4 | 472.4 | 472.4 | 472.4 | 472.4 | 472.4 | 472.4 |
| 2.5° | 473.8 | 468.6 | 466.9 | 465.2 | 462.4 | 461.4 | 459.3 | 457.2 | 457.2 | 455.2 | 454.1 |
| 5° | 476.2 | 469.3 | 464.8 | 462.8 | 461.0 | 462.1 | 462.1 | 462.8 | 465.2 | 463.8 | 464.5 |
| 7.5° | 484.8 | 476.9 | 470.7 | 469.0 | 469.0 | 473.1 | 475.8 | 479.3 | 483.8 | 484.5 | 484.5 |
| 10° | 500.0 | 490.7 | 484.1 | 483.1 | 484.8 | 490.7 | 494.8 | 498.9 | 504.4 | 504.8 | 505.5 |
| 12.5° | 516.5 | 507.2 | 500.7 | 502.0 | 503.8 | 511.3 | 515.8 | 519.3 | 524.8 | 524.8 | 524.4 |
| 15° | 533.7 | 523.4 | 517.9 | 520.6 | 525.8 | 534.4 | 535.1 | 535.5 | 538.2 | 537.5 | 537.2 |
| 17.5° | 551.7 | 540.6 | 536.5 | 540.6 | 546.1 | 550.3 | 546.8 | 542.0 | 541.0 | 539.6 | 538.9 |
| 20° | 569.2 | 557.9 | 556.1 | 559.2 | 561.0 | 557.5 | 546.8 | 537.9 | 533.7 | 531.7 | 531.0 |
| 22.5° | 584.4 | 574.7 | 573.7 | 573.7 | 565.1 | 553.0 | 537.2 | 525.1 | 519.6 | 516.9 | 516.2 |
| 25° | 602.3 | 593.3 | 591.6 | 582.3 | 560.3 | 538.2 | 516.9 | 505.8 | 501.3 | 500.0 | 500.3 |
| 27.5° | 623.3 | 617.1 | 611.6 | 585.1 | 546.5 | 512.0 | 487.9 | 483.1 | 481.4 | 483.1 | 484.1 |
| 30° | 649.2 | 643.0 | 630.6 | 581.6 | 524.4 | 477.9 | 454.8 | 454.5 | 459.7 | 464.1 | 464.8 |
| 32.5° | 670.2 | 667.4 | 647.1 | 570.6 | 493.4 | 440.4 | 420.7 | 422.1 | 431.4 | 437.6 | 438.6 |
| 35° | 686.7 | 691.2 | 660.9 | 552.3 | 456.6 | 404.9 | 389.4 | 390.1 | 395.2 | 403.8 | 404.2 |
| 37.5° | 710.2 | 725.3 | 673.3 | 524.4 | 414.2 | 374.2 | 360.1 | 354.9 | 354.2 | 356.6 | 357.3 |
| 40° | 757.4 | 780.1 | 682.2 | 483.8 | 373.2 | 346.6 | 330.8 | 320.8 | 312.2 | 305.6 | 303.6 |
| 42.5° | 828.7 | 854.9 | 687.4 | 434.5 | 336.6 | 319.4 | 301.5 | 288.7 | 273.6 | 259.8 | 255.0 |
| 45° | 959.6 | 968.2 | 687.4 | 382.1 | 304.3 | 293.9 | 276.0 | 260.8 | 241.5 | 225.3 | 221.9 |
| 47.5° | 1169.1 | 1141.6 | 688.1 | 331.5 | 275.7 | 271.5 | 256.0 | 238.8 | 217.4 | 204.0 | 201.9 |
| 50° | 1484.7 | 1387.9 | 702.2 | 289.4 | 251.9 | 252.6 | 241.2 | 222.2 | 203.0 | 193.0 | 191.2 |
| 52.5° | 1842.4 | 1691.5 | 740.1 | 258.4 | 231.9 | 237.1 | 230.9 | 212.6 | 195.4 | 186.8 | 185.0 |
| 55° | 2178.7 | 1970.6 | 772.5 | 236.4 | 215.0 | 224.0 | 223.6 | 206.7 | 191.2 | 182.6 | 181.6 |
| 57.5° | 2464.7 | 2161.8 | 767.7 | 218.5 | 200.5 | 211.9 | 217.1 | 203.0 | 188.5 | 181.2 | 180.2 |
| 60° | 2642.5 | 2263.1 | 699.1 | 201.9 | 189.5 | 203.3 | 213.3 | 201.9 | 189.9 | 188.1 | 188.5 |
| 62.5° | 2719.7 | 2244.5 | 567.5 | 189.5 | 182.3 | 199.2 | 217.4 | 209.2 | 202.6 | 206.7 | 209.2 |
| 65° | 2599.8 | 2084.6 | 417.6 | 180.2 | 175.4 | 200.2 | 227.1 | 220.5 | 202.6 | 205.4 | 206.4 |
| 67.5° | 2266.9 | 1774.5 | 301.8 | 170.9 | 166.8 | 203.3 | 240.9 | 218.8 | 190.9 | 190.9 | 188.8 |
| 70° | 1633.6 | 1276.3 | 219.1 | 161.6 | 158.2 | 198.8 | 241.5 | 207.1 | 177.5 | 176.4 | 171.3 |
| 72.5° | 983.1 | 752.9 | 170.9 | 151.3 | 145.1 | 176.4 | 226.4 | 193.3 | 164.4 | 155.7 | 149.5 |
| 75° | 510.6 | 377.3 | 143.3 | 139.9 | 124.4 | 149.5 | 207.1 | 171.9 | 140.6 | 133.0 | 129.6 |
| 77.5° | 218.8 | 176.4 | 123.0 | 124.7 | 103.4 | 125.8 | 167.1 | 148.9 | 124.7 | 115.1 | 112.0 |
| 80° | 107.8 | 100.3 | 97.2 | 99.9 | 82.7 | 97.2 | 144.0 | 130.2 | 105.8 | 94.8 | 90.3 |
| 82.5° | 61.7 | 58.6 | 69.9 | 71.0 | 58.9 | 81.3 | 121.6 | 110.3 | 87.5 | 75.5 | 68.2 |
| 85° | 28.6 | 30.7 | 42.4 | 42.7 | 36.5 | 55.8 | 79.6 | 62.0 | 46.5 | 38.6 | 36.9 |
| 87.5° | 11.4 | 13.4 | 18.6 | 18.3 | 10.7 | 10.3 | 6.9 | 3.8 | 3.1 | 2.8 | 2.4 |
| 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)