

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: P628904

Luminaire Tested: GWS-SA1A-750-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-750-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (16) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2858.6 lumens
Efficiency: N/A
Efficacy: 145.1 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

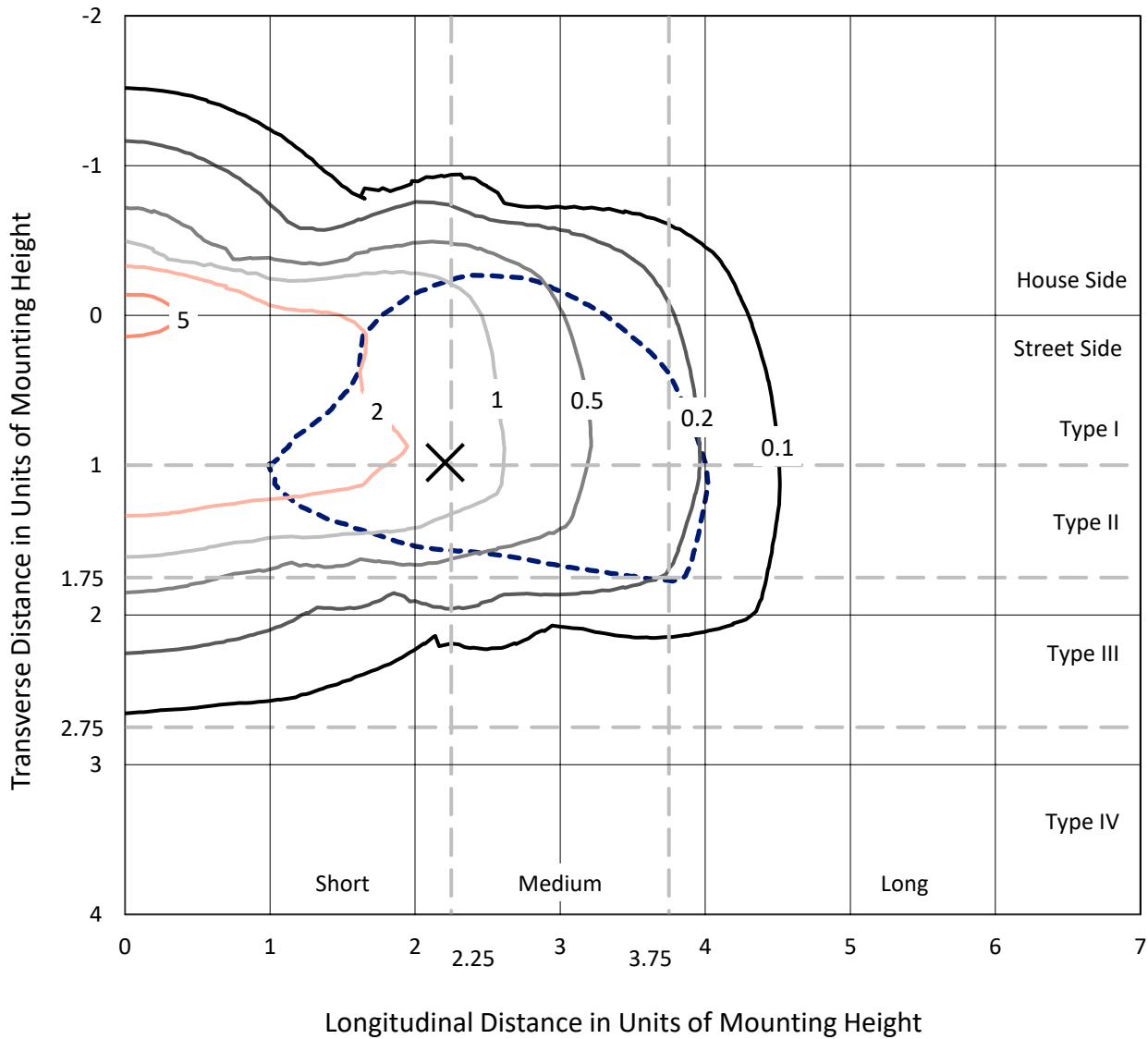
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

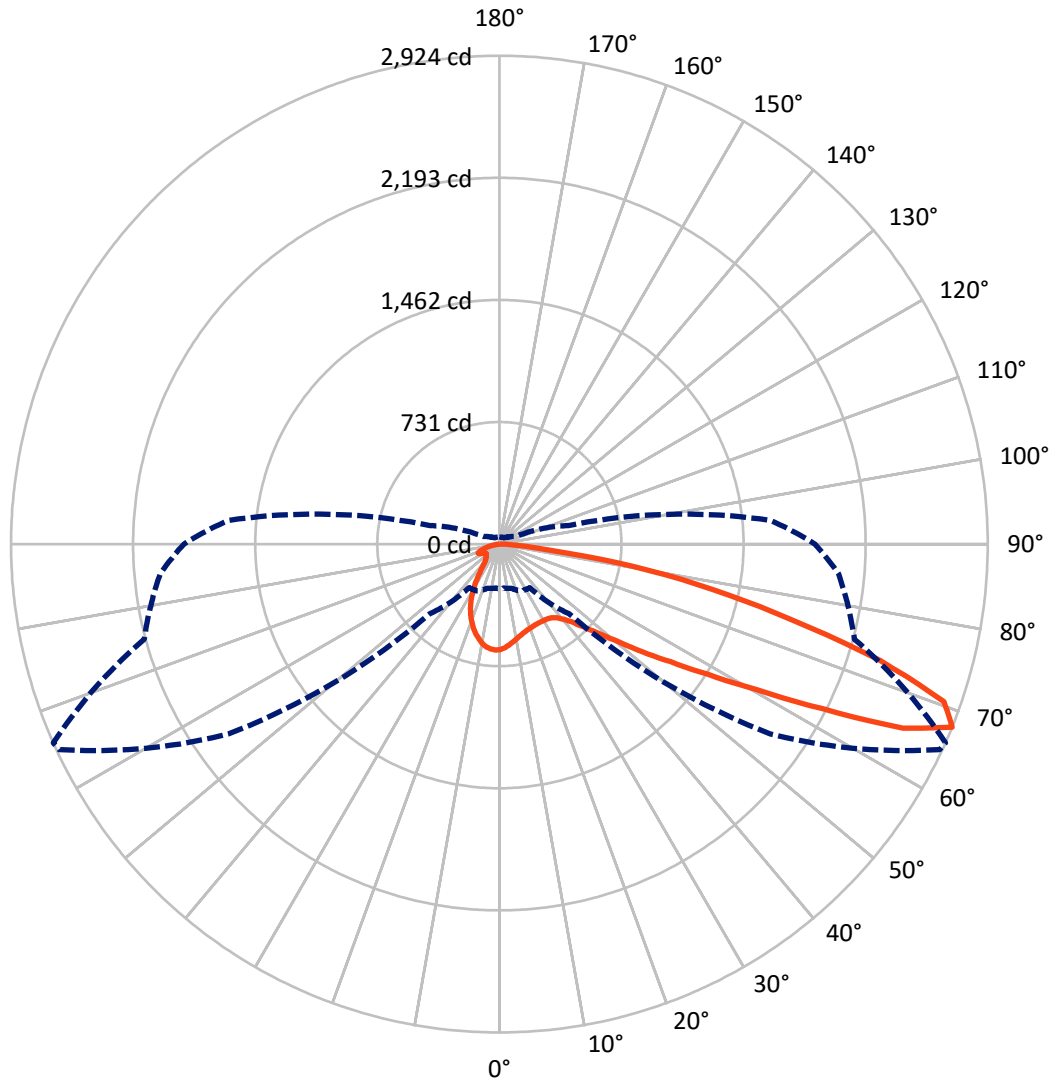
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 580.1 | 0.0 | 580.1 |
| | % Fixture | 20.3 | 0.0 | 20.3 |
| Street Side | Lumens | 2278.5 | 0.0 | 2278.5 |
| | % Fixture | 79.7 | 0.0 | 79.7 |
| Total | Lumens | 2858.6 | 0.0 | 2858.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 55.4 | 1.9 |
| 10°-20° | 136.2 | 4.8 |
| 20°-30° | 187.3 | 6.6 |
| 30°-40° | 256.0 | 9.0 |
| 40°-50° | 387.9 | 13.6 |
| 50°-60° | 603.1 | 21.1 |
| 60°-70° | 734.2 | 25.7 |
| 70°-80° | 447.3 | 15.6 |
| 80°-90° | 51.1 | 1.8 |
| 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° | 2858.6 | 100.0 |
| 0°-180° | 2858.6 | 100.0 |

Coefficient of Utilization



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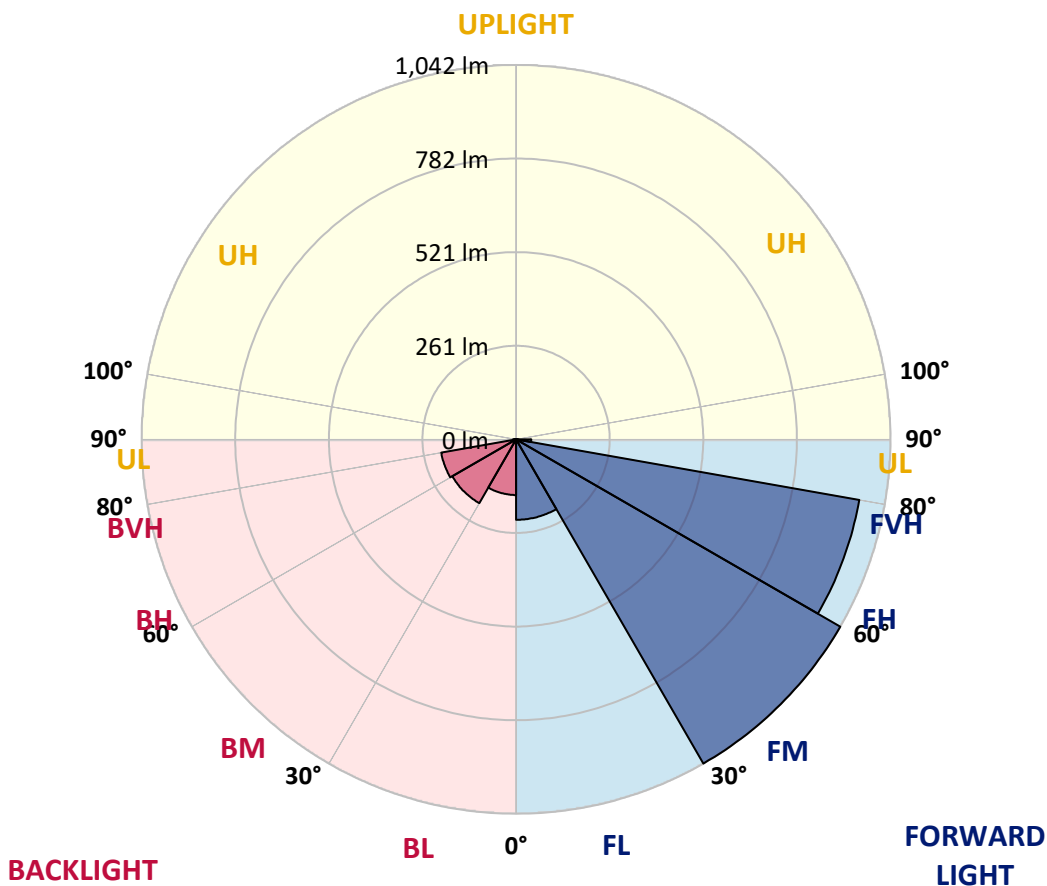
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 224.0 | 7.8 | | | |
| FM (30°-60°) | 1042.1 | 36.5 | | | |
| FH (60°-80°) | 970.0 | 33.9 | | | G1/1800 |
| FVH (80°-90°) | 42.5 | 1.5 | | | G1/100 |
| BL (0°-30°) | 155.0 | 5.4 | B1/500 | | |
| BM (30°-60°) | 205.0 | 7.2 | B0/220 | | |
| BH (60°-80°) | 211.5 | 7.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 8.6 | 0.3 | | | G0/10 |
| 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° | 65° | 66° | 75° | 85° |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 631.7 | 631.7 | 631.7 | 631.7 | 631.7 | 631.7 | 631.7 | 631.7 | 631.7 | 631.7 | 631.7 |
| 2.5° | 591.6 | 593.7 | 592.5 | 600.4 | 600.8 | 610.8 | 616.4 | 621.2 | 621.7 | 627.9 | 632.1 |
| 5° | 551.2 | 552.4 | 552.4 | 559.9 | 564.9 | 578.3 | 591.2 | 605.0 | 606.0 | 621.0 | 632.5 |
| 7.5° | 518.4 | 519.7 | 518.8 | 528.9 | 535.3 | 550.1 | 566.6 | 587.7 | 589.8 | 613.9 | 634.0 |
| 10° | 492.8 | 492.4 | 494.4 | 503.6 | 512.0 | 529.7 | 548.0 | 572.0 | 575.2 | 605.8 | 635.6 |
| 12.5° | 475.3 | 475.7 | 476.9 | 486.5 | 495.5 | 513.0 | 532.0 | 558.1 | 561.4 | 596.4 | 634.8 |
| 15° | 466.9 | 466.1 | 467.1 | 475.9 | 484.4 | 499.9 | 519.5 | 546.4 | 549.7 | 588.1 | 635.0 |
| 17.5° | 465.0 | 464.4 | 464.2 | 470.5 | 476.9 | 491.3 | 510.1 | 537.4 | 541.0 | 582.7 | 636.3 |
| 20° | 470.9 | 470.1 | 467.8 | 470.5 | 473.2 | 485.3 | 503.4 | 530.9 | 534.9 | 579.1 | 638.8 |
| 22.5° | 486.9 | 485.5 | 481.9 | 478.6 | 475.1 | 482.4 | 499.2 | 526.1 | 530.1 | 576.8 | 641.3 |
| 25° | 511.3 | 510.1 | 506.3 | 498.8 | 485.9 | 484.6 | 498.4 | 524.1 | 528.0 | 575.2 | 642.3 |
| 27.5° | 544.9 | 543.0 | 539.3 | 528.4 | 507.4 | 493.2 | 501.5 | 523.9 | 527.6 | 573.3 | 641.3 |
| 30° | 584.7 | 583.5 | 581.4 | 568.3 | 540.1 | 511.3 | 508.6 | 525.5 | 528.4 | 572.2 | 639.2 |
| 32.5° | 625.2 | 624.0 | 625.6 | 619.4 | 584.7 | 541.4 | 524.1 | 530.1 | 532.2 | 572.0 | 637.3 |
| 35° | 660.9 | 662.3 | 674.4 | 675.5 | 641.5 | 582.0 | 548.5 | 540.7 | 541.2 | 576.2 | 638.1 |
| 37.5° | 698.2 | 703.8 | 719.7 | 733.2 | 704.9 | 635.8 | 584.7 | 560.8 | 560.3 | 586.8 | 643.3 |
| 40° | 747.6 | 750.1 | 770.3 | 795.8 | 778.1 | 709.7 | 636.3 | 593.5 | 590.6 | 608.5 | 657.3 |
| 42.5° | 795.8 | 801.8 | 834.2 | 863.4 | 857.5 | 792.9 | 701.1 | 642.5 | 637.3 | 646.9 | 686.1 |
| 45° | 857.1 | 862.9 | 899.2 | 936.8 | 947.4 | 886.9 | 784.1 | 712.2 | 707.0 | 704.7 | 738.9 |
| 47.5° | 918.4 | 924.5 | 957.0 | 1011.2 | 1048.5 | 1004.5 | 892.1 | 804.1 | 795.6 | 786.6 | 818.5 |
| 50° | 959.7 | 966.8 | 997.9 | 1062.9 | 1150.5 | 1151.4 | 1020.2 | 924.7 | 913.8 | 899.6 | 930.7 |
| 52.5° | 958.2 | 962.8 | 992.4 | 1067.5 | 1223.9 | 1320.1 | 1191.6 | 1078.2 | 1069.4 | 1038.5 | 1065.6 |
| 55° | 883.0 | 889.8 | 919.7 | 1013.5 | 1231.8 | 1480.0 | 1443.5 | 1259.2 | 1243.5 | 1188.3 | 1218.1 |
| 57.5° | 731.8 | 737.6 | 767.6 | 883.4 | 1161.6 | 1562.0 | 1763.4 | 1489.8 | 1468.3 | 1351.3 | 1385.8 |
| 60° | 552.4 | 545.3 | 559.5 | 660.9 | 993.5 | 1564.1 | 2045.8 | 1802.6 | 1766.8 | 1525.7 | 1554.5 |
| 62.5° | 414.6 | 407.5 | 410.6 | 439.2 | 673.6 | 1437.7 | 2206.8 | 2230.6 | 2171.3 | 1722.5 | 1716.9 |
| 65° | 327.6 | 323.7 | 332.6 | 352.2 | 392.7 | 1094.8 | 2208.0 | 2693.3 | 2656.0 | 1950.7 | 1883.5 |
| 67.5° | 266.9 | 264.4 | 273.6 | 309.9 | 318.4 | 588.3 | 1979.9 | 2909.3 | 2923.9 | 2200.5 | 2038.1 |
| 70° | 215.0 | 211.3 | 225.6 | 273.4 | 296.1 | 356.0 | 1418.3 | 2799.2 | 2822.8 | 2349.4 | 1994.5 |
| 72.5° | 148.5 | 148.7 | 156.0 | 221.5 | 285.9 | 307.4 | 802.3 | 2330.9 | 2382.0 | 2214.5 | 1753.4 |
| 75° | 100.1 | 100.9 | 103.0 | 146.2 | 263.4 | 298.2 | 427.5 | 1764.7 | 1800.7 | 1830.4 | 1449.4 |
| 77.5° | 60.5 | 60.9 | 65.7 | 88.4 | 181.6 | 278.4 | 289.7 | 1279.2 | 1307.5 | 1206.6 | 898.4 |
| 80° | 35.0 | 36.5 | 40.9 | 59.2 | 122.6 | 209.2 | 224.2 | 784.3 | 816.4 | 536.4 | 285.5 |
| 82.5° | 15.4 | 16.5 | 22.3 | 34.4 | 71.5 | 177.9 | 175.0 | 309.9 | 305.3 | 149.5 | 99.1 |
| 85° | 2.7 | 3.3 | 4.8 | 10.8 | 26.3 | 93.8 | 135.8 | 136.8 | 128.7 | 56.7 | 41.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 20.4 | 36.7 | 36.5 | 16.1 | 14.2 |
| 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° | 631.7 | 631.7 | 631.7 | 631.7 | 631.7 | 631.7 | 631.7 | 631.7 | 631.7 | 631.7 | 631.7 |
| 2.5° | 634.8 | 629.2 | 634.2 | 634.8 | 633.8 | 632.9 | 626.7 | 621.2 | 620.6 | 614.8 | 614.8 |
| 5° | 637.1 | 631.9 | 634.4 | 629.6 | 622.1 | 614.4 | 601.0 | 591.8 | 587.7 | 580.2 | 580.2 |
| 7.5° | 640.2 | 634.8 | 631.9 | 620.0 | 602.5 | 585.6 | 564.1 | 546.2 | 538.9 | 528.2 | 527.8 |
| 10° | 643.1 | 636.3 | 626.2 | 603.1 | 575.2 | 548.3 | 517.0 | 491.5 | 474.2 | 461.5 | 461.5 |
| 12.5° | 642.9 | 634.0 | 614.2 | 580.0 | 541.4 | 502.4 | 460.7 | 422.3 | 399.4 | 379.5 | 378.3 |
| 15° | 642.5 | 630.2 | 598.7 | 553.0 | 502.0 | 447.9 | 391.2 | 341.2 | 307.2 | 287.8 | 286.1 |
| 17.5° | 642.1 | 625.4 | 581.4 | 522.4 | 454.0 | 380.4 | 305.5 | 251.3 | 222.9 | 211.0 | 211.5 |
| 20° | 642.1 | 620.0 | 562.9 | 487.2 | 398.7 | 299.5 | 224.2 | 184.8 | 177.7 | 178.3 | 178.9 |
| 22.5° | 640.2 | 613.3 | 542.2 | 448.8 | 337.2 | 220.2 | 165.4 | 152.0 | 155.8 | 161.6 | 162.5 |
| 25° | 635.8 | 602.3 | 518.2 | 406.2 | 264.0 | 160.4 | 134.9 | 132.4 | 139.3 | 146.6 | 148.7 |
| 27.5° | 629.0 | 589.5 | 491.3 | 356.4 | 194.4 | 128.9 | 118.7 | 118.5 | 123.9 | 129.3 | 131.2 |
| 30° | 621.7 | 575.4 | 463.0 | 300.9 | 140.8 | 112.2 | 108.2 | 108.2 | 110.9 | 114.3 | 113.9 |
| 32.5° | 613.1 | 561.0 | 432.5 | 243.2 | 114.7 | 102.8 | 101.6 | 100.9 | 101.4 | 102.6 | 102.6 |
| 35° | 605.8 | 548.3 | 401.2 | 182.1 | 102.8 | 97.6 | 96.3 | 94.9 | 94.3 | 93.4 | 93.8 |
| 37.5° | 603.1 | 538.2 | 368.9 | 137.2 | 97.0 | 93.8 | 91.8 | 89.7 | 88.2 | 87.8 | 87.6 |
| 40° | 607.5 | 534.1 | 336.6 | 113.0 | 92.8 | 89.9 | 87.6 | 84.9 | 83.6 | 83.6 | 83.6 |
| 42.5° | 624.6 | 537.2 | 303.6 | 102.2 | 89.9 | 86.5 | 83.2 | 80.7 | 80.3 | 80.7 | 80.9 |
| 45° | 655.9 | 549.3 | 269.4 | 96.8 | 87.4 | 83.2 | 79.2 | 77.4 | 77.4 | 77.8 | 77.8 |
| 47.5° | 711.7 | 581.0 | 235.7 | 93.4 | 84.9 | 80.5 | 76.3 | 74.4 | 74.2 | 74.7 | 74.7 |
| 50° | 808.5 | 638.1 | 205.2 | 91.1 | 83.0 | 78.4 | 74.2 | 71.7 | 71.1 | 70.9 | 70.9 |
| 52.5° | 930.5 | 737.2 | 185.8 | 89.5 | 80.7 | 76.1 | 71.9 | 68.6 | 67.4 | 66.7 | 66.7 |
| 55° | 1077.9 | 869.2 | 185.8 | 88.2 | 77.8 | 73.4 | 68.6 | 65.3 | 63.4 | 62.6 | 62.6 |
| 57.5° | 1245.0 | 1022.9 | 217.9 | 87.2 | 75.5 | 70.3 | 65.1 | 61.7 | 59.6 | 58.4 | 58.4 |
| 60° | 1414.9 | 1185.3 | 297.4 | 85.7 | 73.4 | 66.3 | 61.1 | 58.0 | 55.3 | 53.8 | 53.6 |
| 62.5° | 1591.2 | 1364.3 | 402.1 | 86.5 | 71.9 | 62.6 | 56.9 | 53.4 | 51.1 | 49.6 | 49.4 |
| 65° | 1752.6 | 1534.7 | 493.6 | 93.0 | 72.2 | 59.2 | 52.1 | 49.0 | 47.1 | 45.3 | 45.0 |
| 67.5° | 1889.6 | 1628.7 | 429.4 | 106.1 | 76.5 | 55.3 | 47.3 | 44.2 | 42.5 | 41.3 | 41.1 |
| 70° | 1793.7 | 1485.2 | 243.6 | 114.3 | 82.6 | 51.1 | 41.9 | 39.8 | 38.2 | 37.3 | 37.1 |
| 72.5° | 1533.8 | 1257.5 | 162.9 | 100.9 | 75.3 | 45.7 | 36.9 | 35.2 | 34.0 | 32.9 | 32.7 |
| 75° | 1242.5 | 997.2 | 124.5 | 82.8 | 58.6 | 37.1 | 31.7 | 30.4 | 29.2 | 28.2 | 27.9 |
| 77.5° | 735.1 | 576.2 | 91.8 | 65.5 | 41.3 | 29.0 | 26.3 | 25.2 | 24.0 | 23.1 | 22.9 |
| 80° | 234.6 | 200.2 | 58.2 | 45.0 | 27.3 | 22.3 | 20.2 | 19.4 | 18.1 | 17.1 | 16.9 |
| 82.5° | 89.5 | 77.4 | 30.9 | 22.9 | 18.1 | 15.2 | 13.6 | 12.7 | 11.9 | 10.8 | 10.6 |
| 85° | 39.6 | 37.1 | 17.1 | 12.3 | 9.8 | 7.5 | 6.7 | 6.3 | 5.2 | 4.4 | 4.2 |
| 87.5° | 14.0 | 14.0 | 7.3 | 3.5 | 2.1 | 1.0 | 0.6 | 0.2 | 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)