

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: P628629

Luminaire Tested: GWS-SA1A-722-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628629
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-722-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (16) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2058.4 lumens
Efficiency: N/A
Efficacy: 104.5 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

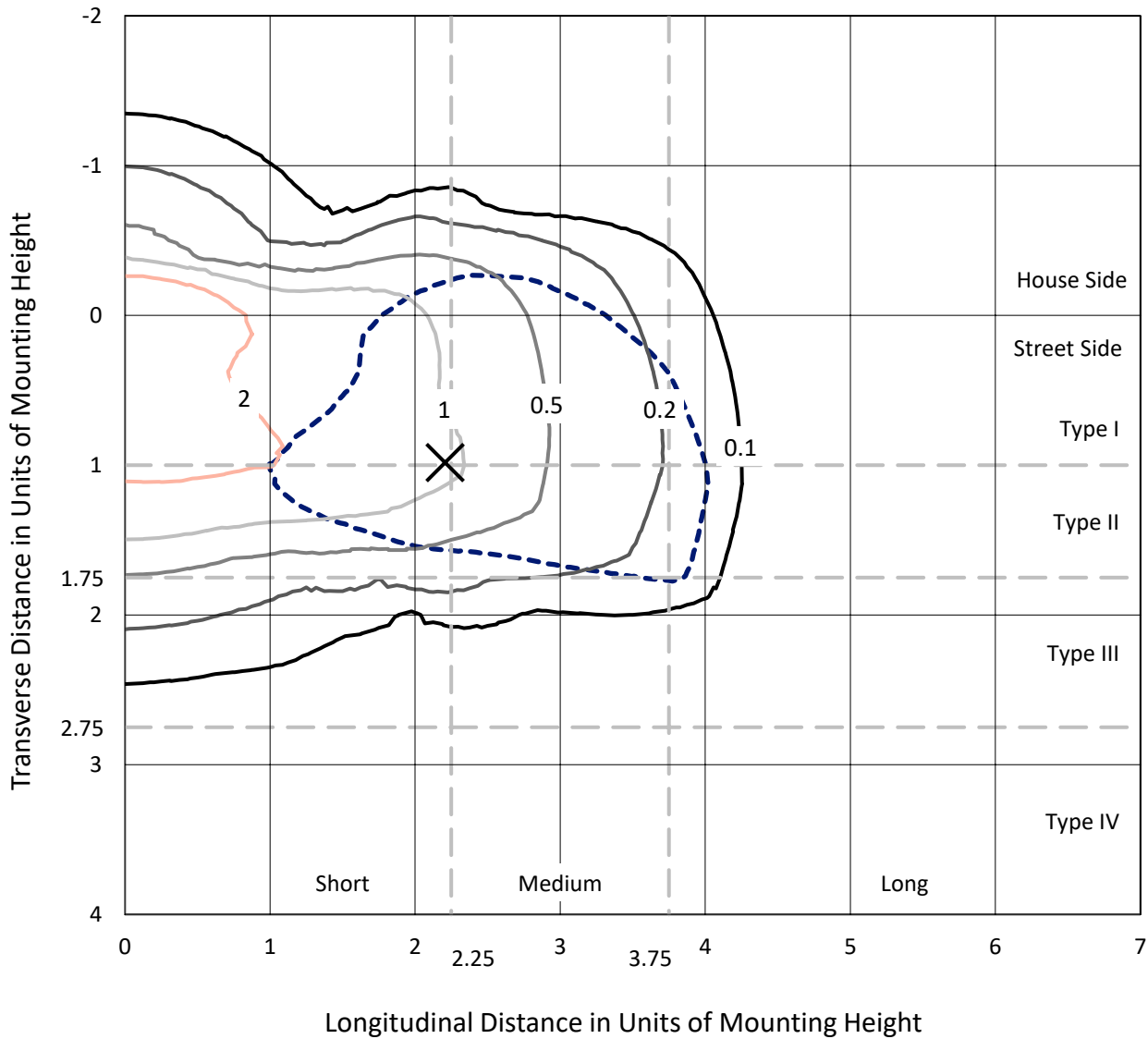


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Iso-Footcandle Lines of Horizontal Illumination

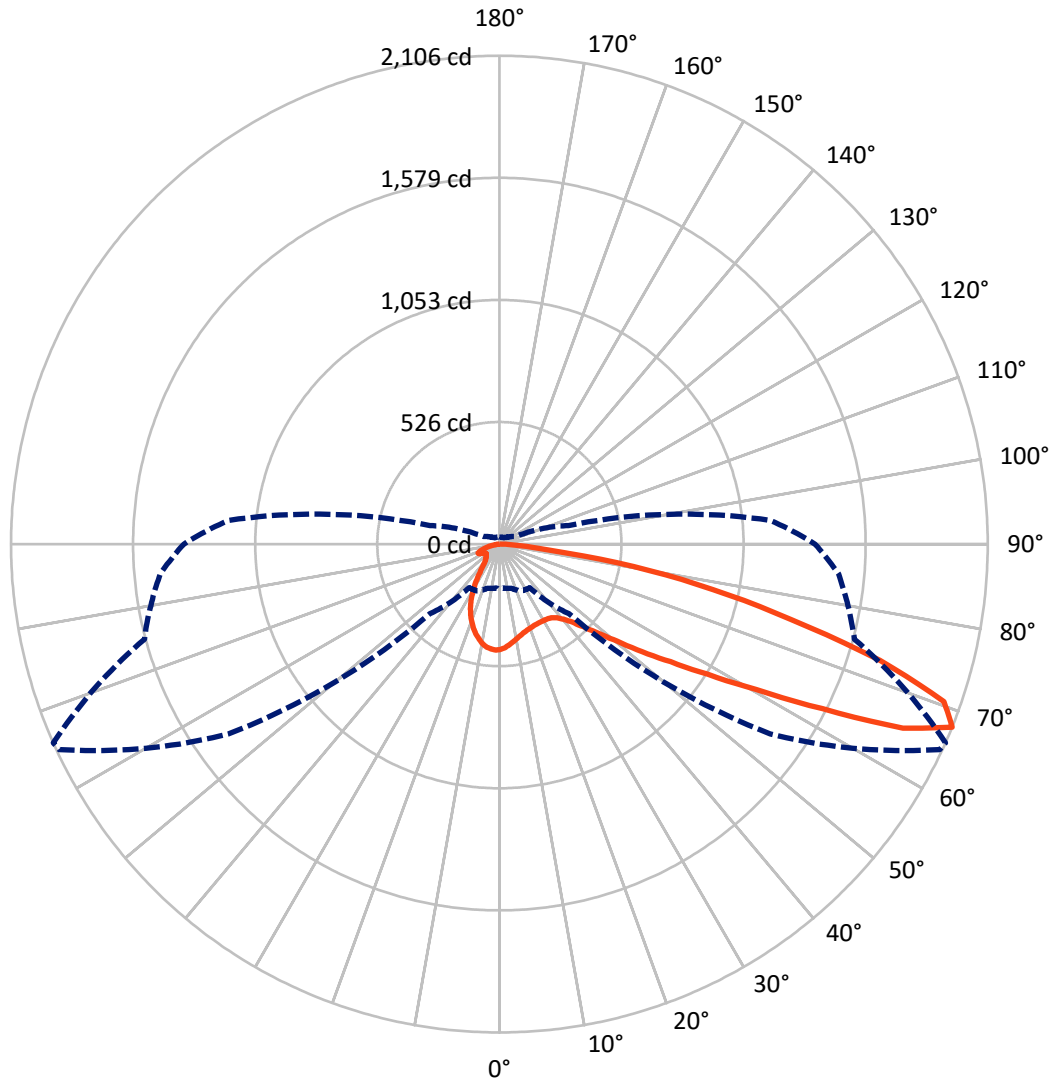
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 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 | 417.7 | 0.0 | 417.7 |
| | % Fixture | 20.3 | 0.0 | 20.3 |
| Street Side | Lumens | 1640.7 | 0.0 | 1640.7 |
| | % Fixture | 79.7 | 0.0 | 79.7 |
| Total | Lumens | 2058.4 | 0.0 | 2058.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 39.9 | 1.9 |
| 10°-20° | 98.1 | 4.8 |
| 20°-30° | 134.8 | 6.6 |
| 30°-40° | 184.4 | 9.0 |
| 40°-50° | 279.4 | 13.6 |
| 50°-60° | 434.3 | 21.1 |
| 60°-70° | 528.7 | 25.7 |
| 70°-80° | 322.1 | 15.6 |
| 80°-90° | 36.8 | 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° | 2058.4 | 100.0 |
| 0°-180° | 2058.4 | 100.0 |

Coefficient of Utilization



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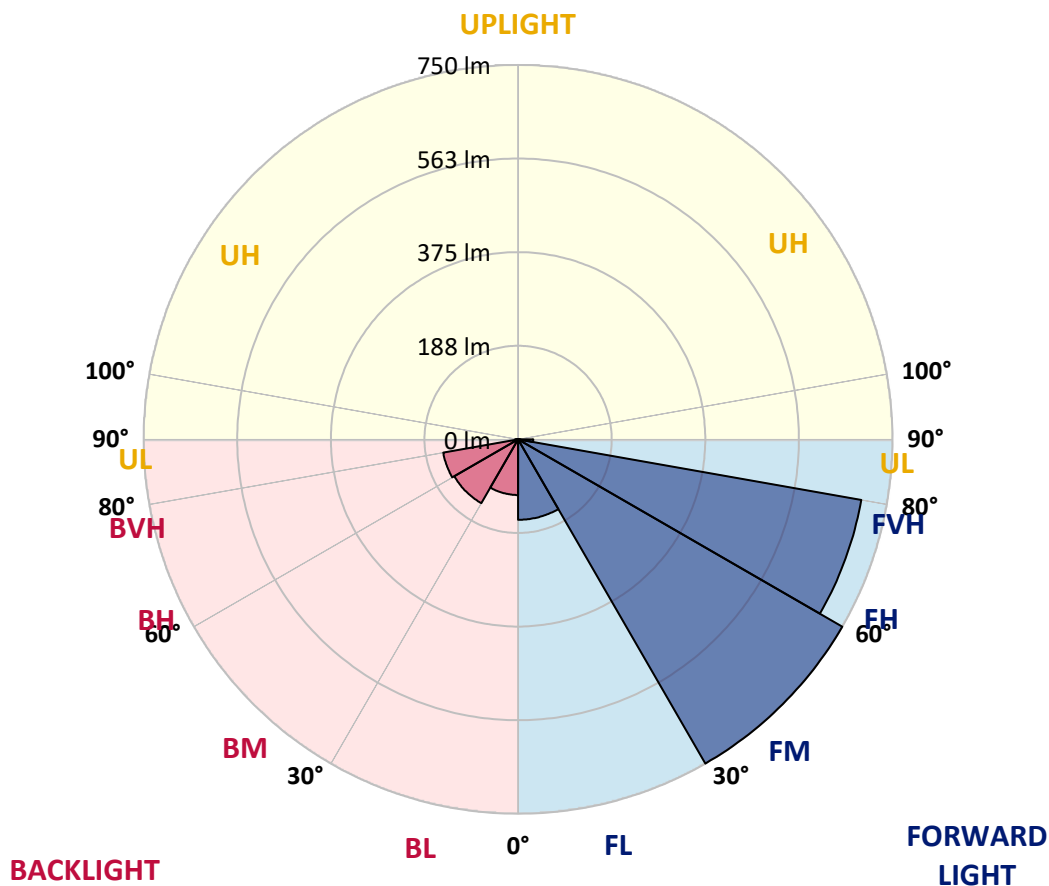
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 161.3 | 7.8 | | | |
| FM (30°-60°) | 750.4 | 36.5 | | | |
| FH (60°-80°) | 698.5 | 33.9 | | | G1/1800 |
| FVH (80°-90°) | 30.6 | 1.5 | | | G1/100 |
| BL (0°-30°) | 111.6 | 5.4 | B1/500 | | |
| BM (30°-60°) | 147.6 | 7.2 | B0/220 | | |
| BH (60°-80°) | 152.3 | 7.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.2 | 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° | 454.8 | 454.8 | 454.8 | 454.8 | 454.8 | 454.8 | 454.8 | 454.8 | 454.8 | 454.8 | 454.8 |
| 2.5° | 426.0 | 427.5 | 426.6 | 432.3 | 432.6 | 439.8 | 443.9 | 447.3 | 447.6 | 452.1 | 455.1 |
| 5° | 396.9 | 397.8 | 397.8 | 403.2 | 406.8 | 416.4 | 425.7 | 435.6 | 436.4 | 447.2 | 455.4 |
| 7.5° | 373.3 | 374.2 | 373.6 | 380.8 | 385.5 | 396.1 | 408.0 | 423.2 | 424.7 | 442.1 | 456.5 |
| 10° | 354.8 | 354.5 | 356.0 | 362.6 | 368.7 | 381.4 | 394.6 | 411.9 | 414.2 | 436.2 | 457.7 |
| 12.5° | 342.2 | 342.5 | 343.4 | 350.3 | 356.8 | 369.4 | 383.1 | 401.8 | 404.2 | 429.5 | 457.1 |
| 15° | 336.2 | 335.6 | 336.4 | 342.7 | 348.8 | 359.9 | 374.1 | 393.4 | 395.8 | 423.5 | 457.3 |
| 17.5° | 334.9 | 334.4 | 334.3 | 338.8 | 343.4 | 353.8 | 367.3 | 387.0 | 389.5 | 419.6 | 458.2 |
| 20° | 339.1 | 338.5 | 336.8 | 338.8 | 340.7 | 349.4 | 362.5 | 382.3 | 385.2 | 417.0 | 460.0 |
| 22.5° | 350.6 | 349.6 | 347.0 | 344.6 | 342.1 | 347.3 | 359.5 | 378.9 | 381.7 | 415.4 | 461.8 |
| 25° | 368.2 | 367.3 | 364.6 | 359.2 | 349.9 | 349.0 | 358.9 | 377.4 | 380.2 | 414.2 | 462.5 |
| 27.5° | 392.4 | 391.0 | 388.3 | 380.5 | 365.3 | 355.1 | 361.1 | 377.2 | 379.9 | 412.8 | 461.8 |
| 30° | 421.1 | 420.2 | 418.7 | 409.2 | 388.9 | 368.2 | 366.3 | 378.4 | 380.5 | 412.1 | 460.3 |
| 32.5° | 450.2 | 449.3 | 450.5 | 446.0 | 421.1 | 389.8 | 377.4 | 381.7 | 383.2 | 411.9 | 458.9 |
| 35° | 475.9 | 476.9 | 485.6 | 486.4 | 461.9 | 419.1 | 394.9 | 389.4 | 389.7 | 414.9 | 459.5 |
| 37.5° | 502.8 | 506.8 | 518.2 | 528.0 | 507.6 | 457.9 | 421.1 | 403.8 | 403.5 | 422.6 | 463.3 |
| 40° | 538.3 | 540.1 | 554.7 | 573.0 | 560.3 | 511.0 | 458.2 | 427.4 | 425.3 | 438.2 | 473.3 |
| 42.5° | 573.0 | 577.4 | 600.7 | 621.7 | 617.5 | 570.9 | 504.9 | 462.7 | 458.9 | 465.8 | 494.0 |
| 45° | 617.2 | 621.4 | 647.5 | 674.5 | 682.2 | 638.6 | 564.6 | 512.8 | 509.1 | 507.4 | 532.0 |
| 47.5° | 661.3 | 665.7 | 689.1 | 728.1 | 755.0 | 723.3 | 642.4 | 579.0 | 572.9 | 566.4 | 589.4 |
| 50° | 691.1 | 696.2 | 718.5 | 765.4 | 828.5 | 829.1 | 734.6 | 665.8 | 658.0 | 647.8 | 670.2 |
| 52.5° | 690.0 | 693.3 | 714.6 | 768.7 | 881.3 | 950.5 | 858.0 | 776.3 | 770.0 | 747.8 | 767.3 |
| 55° | 635.8 | 640.8 | 662.2 | 729.8 | 887.0 | 1065.7 | 1039.4 | 906.7 | 895.4 | 855.6 | 877.1 |
| 57.5° | 526.9 | 531.1 | 552.8 | 636.1 | 836.4 | 1124.7 | 1269.8 | 1072.8 | 1057.3 | 973.1 | 997.8 |
| 60° | 397.8 | 392.7 | 402.9 | 475.9 | 715.4 | 1126.2 | 1473.1 | 1298.0 | 1272.2 | 1098.6 | 1119.3 |
| 62.5° | 298.5 | 293.4 | 295.7 | 316.2 | 485.0 | 1035.2 | 1589.0 | 1606.2 | 1563.5 | 1240.4 | 1236.3 |
| 65° | 235.9 | 233.1 | 239.5 | 253.6 | 282.8 | 788.4 | 1589.9 | 1939.4 | 1912.5 | 1404.6 | 1356.3 |
| 67.5° | 192.2 | 190.4 | 197.0 | 223.1 | 229.3 | 423.6 | 1425.7 | 2094.9 | 2105.5 | 1584.5 | 1467.6 |
| 70° | 154.8 | 152.1 | 162.5 | 196.9 | 213.2 | 256.3 | 1021.3 | 2015.7 | 2032.6 | 1691.8 | 1436.2 |
| 72.5° | 106.9 | 107.1 | 112.3 | 159.5 | 205.9 | 221.3 | 577.7 | 1678.4 | 1715.2 | 1594.6 | 1262.6 |
| 75° | 72.1 | 72.7 | 74.2 | 105.3 | 189.7 | 214.7 | 307.8 | 1270.7 | 1296.7 | 1318.0 | 1043.6 |
| 77.5° | 43.5 | 43.8 | 47.3 | 63.7 | 130.8 | 200.5 | 208.6 | 921.1 | 941.5 | 868.9 | 646.9 |
| 80° | 25.2 | 26.3 | 29.4 | 42.6 | 88.3 | 150.6 | 161.4 | 564.8 | 587.9 | 386.2 | 205.6 |
| 82.5° | 11.1 | 11.9 | 16.1 | 24.8 | 51.5 | 128.1 | 126.0 | 223.1 | 219.8 | 107.7 | 71.3 |
| 85° | 2.0 | 2.4 | 3.5 | 7.8 | 18.9 | 67.6 | 97.8 | 98.5 | 92.7 | 40.8 | 29.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 14.7 | 26.4 | 26.3 | 11.6 | 10.2 |
| 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° | 454.8 | 454.8 | 454.8 | 454.8 | 454.8 | 454.8 | 454.8 | 454.8 | 454.8 | 454.8 | 454.8 |
| 2.5° | 457.1 | 453.0 | 456.6 | 457.1 | 456.3 | 455.7 | 451.2 | 447.3 | 446.9 | 442.7 | 442.7 |
| 5° | 458.8 | 455.0 | 456.8 | 453.3 | 447.9 | 442.4 | 432.8 | 426.2 | 423.2 | 417.8 | 417.8 |
| 7.5° | 461.0 | 457.1 | 455.0 | 446.4 | 433.8 | 421.7 | 406.2 | 393.3 | 388.0 | 380.4 | 380.1 |
| 10° | 463.1 | 458.2 | 450.9 | 434.3 | 414.2 | 394.8 | 372.3 | 353.9 | 341.5 | 332.3 | 332.3 |
| 12.5° | 463.0 | 456.5 | 442.2 | 417.6 | 389.8 | 361.7 | 331.7 | 304.1 | 287.6 | 273.3 | 272.4 |
| 15° | 462.7 | 453.8 | 431.1 | 398.2 | 361.4 | 322.6 | 281.7 | 245.7 | 221.2 | 207.2 | 206.0 |
| 17.5° | 462.4 | 450.3 | 418.7 | 376.2 | 326.9 | 273.9 | 220.0 | 180.9 | 160.5 | 152.0 | 152.3 |
| 20° | 462.4 | 446.4 | 405.3 | 350.8 | 287.1 | 215.6 | 161.4 | 133.0 | 127.9 | 128.4 | 128.8 |
| 22.5° | 461.0 | 441.6 | 390.4 | 323.2 | 242.8 | 158.6 | 119.1 | 109.5 | 112.2 | 116.4 | 117.0 |
| 25° | 457.9 | 433.7 | 373.2 | 292.5 | 190.1 | 115.5 | 97.2 | 95.4 | 100.3 | 105.6 | 107.1 |
| 27.5° | 452.9 | 424.5 | 353.8 | 256.6 | 140.0 | 92.8 | 85.4 | 85.3 | 89.2 | 93.1 | 94.5 |
| 30° | 447.6 | 414.3 | 333.4 | 216.7 | 101.4 | 80.8 | 77.9 | 77.9 | 79.9 | 82.3 | 82.0 |
| 32.5° | 441.5 | 403.9 | 311.4 | 175.1 | 82.6 | 74.0 | 73.1 | 72.7 | 73.0 | 73.9 | 73.9 |
| 35° | 436.2 | 394.8 | 288.9 | 131.1 | 74.0 | 70.3 | 69.4 | 68.3 | 67.9 | 67.3 | 67.6 |
| 37.5° | 434.3 | 387.6 | 265.6 | 98.8 | 69.8 | 67.6 | 66.1 | 64.6 | 63.5 | 63.2 | 63.1 |
| 40° | 437.4 | 384.6 | 242.4 | 81.4 | 66.8 | 64.7 | 63.1 | 61.1 | 60.2 | 60.2 | 60.2 |
| 42.5° | 449.7 | 386.8 | 218.6 | 73.6 | 64.7 | 62.3 | 59.9 | 58.1 | 57.8 | 58.1 | 58.3 |
| 45° | 472.3 | 395.5 | 194.0 | 69.7 | 62.9 | 59.9 | 57.1 | 55.7 | 55.7 | 56.0 | 56.0 |
| 47.5° | 512.5 | 418.4 | 169.7 | 67.3 | 61.1 | 58.0 | 55.0 | 53.6 | 53.5 | 53.8 | 53.8 |
| 50° | 582.2 | 459.5 | 147.8 | 65.6 | 59.8 | 56.5 | 53.5 | 51.7 | 51.2 | 51.1 | 51.1 |
| 52.5° | 670.0 | 530.8 | 133.8 | 64.4 | 58.1 | 54.8 | 51.8 | 49.4 | 48.5 | 48.1 | 48.1 |
| 55° | 776.2 | 625.9 | 133.8 | 63.5 | 56.0 | 52.9 | 49.4 | 47.0 | 45.6 | 45.0 | 45.0 |
| 57.5° | 896.5 | 736.6 | 156.9 | 62.8 | 54.4 | 50.6 | 46.9 | 44.4 | 42.9 | 42.0 | 42.0 |
| 60° | 1018.9 | 853.5 | 214.1 | 61.7 | 52.9 | 47.8 | 44.0 | 41.7 | 39.8 | 38.7 | 38.6 |
| 62.5° | 1145.8 | 982.4 | 289.5 | 62.3 | 51.8 | 45.0 | 41.0 | 38.4 | 36.8 | 35.7 | 35.6 |
| 65° | 1262.0 | 1105.1 | 355.4 | 67.0 | 52.0 | 42.6 | 37.5 | 35.3 | 33.9 | 32.6 | 32.4 |
| 67.5° | 1360.6 | 1172.8 | 309.2 | 76.4 | 55.1 | 39.8 | 34.1 | 31.8 | 30.6 | 29.7 | 29.6 |
| 70° | 1291.6 | 1069.5 | 175.4 | 82.3 | 59.5 | 36.8 | 30.2 | 28.7 | 27.5 | 26.9 | 26.7 |
| 72.5° | 1104.5 | 905.5 | 117.3 | 72.7 | 54.2 | 32.9 | 26.6 | 25.4 | 24.5 | 23.7 | 23.6 |
| 75° | 894.7 | 718.1 | 89.6 | 59.6 | 42.2 | 26.7 | 22.8 | 21.9 | 21.0 | 20.3 | 20.1 |
| 77.5° | 529.3 | 414.9 | 66.1 | 47.2 | 29.7 | 20.9 | 18.9 | 18.2 | 17.3 | 16.7 | 16.5 |
| 80° | 168.9 | 144.2 | 41.9 | 32.4 | 19.7 | 16.1 | 14.6 | 14.0 | 13.1 | 12.3 | 12.2 |
| 82.5° | 64.4 | 55.7 | 22.2 | 16.5 | 13.1 | 11.0 | 9.8 | 9.2 | 8.6 | 7.8 | 7.7 |
| 85° | 28.5 | 26.7 | 12.3 | 8.9 | 7.1 | 5.4 | 4.8 | 4.5 | 3.8 | 3.2 | 3.0 |
| 87.5° | 10.1 | 10.1 | 5.3 | 2.6 | 1.5 | 0.8 | 0.5 | 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)