

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: PORTFOLIO

Report Number: P1317557

Luminaire Tested: LDSQA3D13R709827DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R709827DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

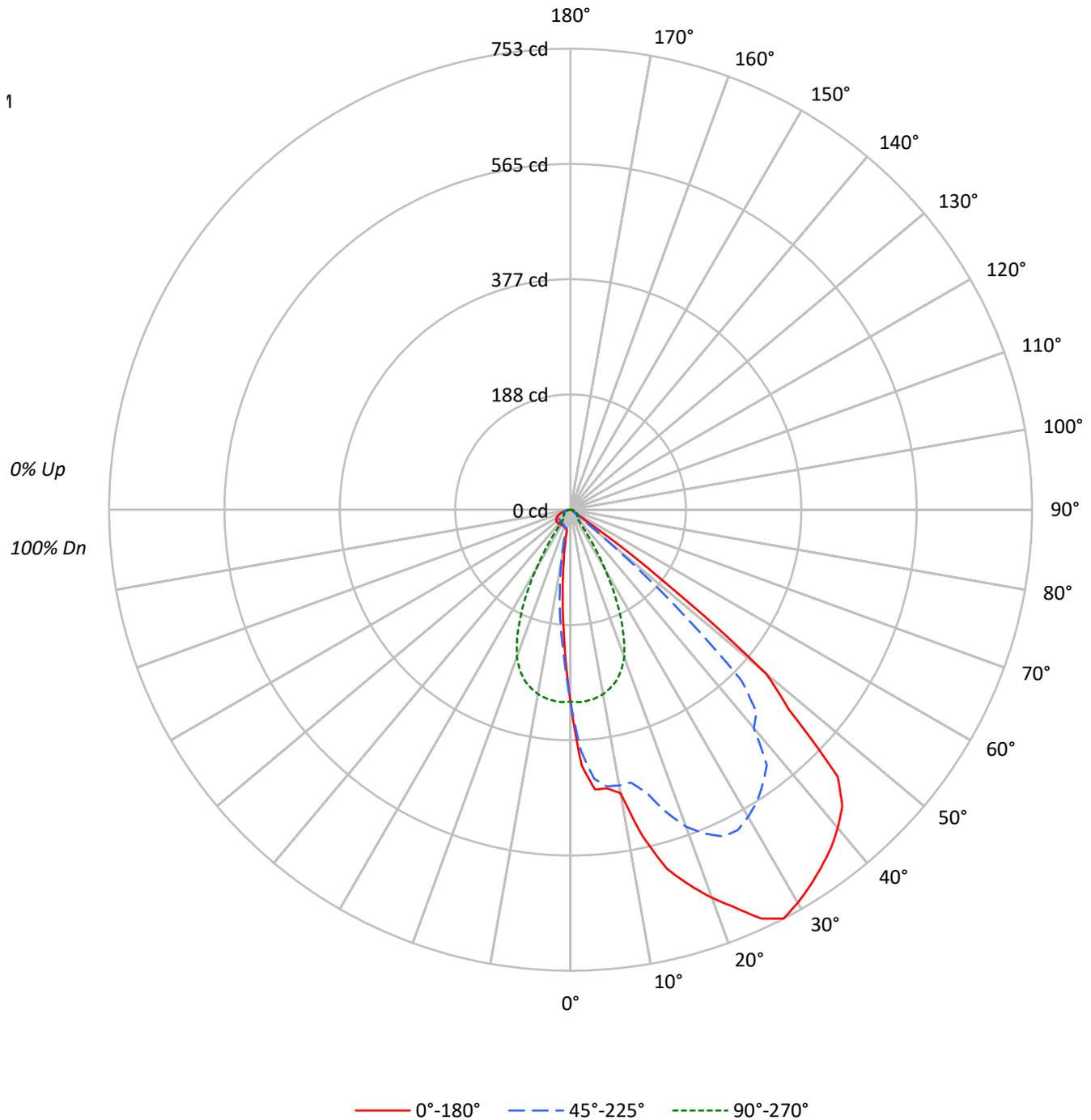
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 595.1 lumens
Efficiency: N/A
Efficacy: 41.0 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 0.89 / 1.39
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1317557
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Luminous Intensity Polar Plot





TEST NUMBER: P1317557

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | 20 | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | | 10 | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | |
| 1 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98 | 98 | 96 | 95 | 95 | 93 | 92 | 90 | | | | |
| 2 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 88 | 93 | 89 | 86 | 90 | 87 | 84 | 87 | 84 | 82 | 80 | | | | |
| 3 | 97 | 89 | 83 | 78 | 95 | 87 | 82 | 77 | 85 | 80 | 76 | 82 | 78 | 74 | 80 | 76 | 73 | 71 | | | | |
| 4 | 90 | 81 | 74 | 68 | 88 | 80 | 73 | 68 | 77 | 72 | 67 | 75 | 70 | 66 | 73 | 69 | 65 | 64 | | | | |
| 5 | 84 | 74 | 66 | 61 | 82 | 73 | 66 | 60 | 71 | 65 | 60 | 69 | 64 | 59 | 67 | 62 | 59 | 57 | | | | |
| 6 | 79 | 67 | 60 | 54 | 77 | 66 | 59 | 54 | 65 | 58 | 54 | 63 | 58 | 53 | 62 | 57 | 53 | 51 | | | | |
| 7 | 73 | 62 | 54 | 49 | 72 | 61 | 54 | 49 | 60 | 53 | 48 | 58 | 52 | 48 | 57 | 52 | 48 | 46 | | | | |
| 8 | 69 | 57 | 49 | 44 | 67 | 56 | 49 | 44 | 55 | 49 | 44 | 54 | 48 | 44 | 53 | 47 | 43 | 42 | | | | |
| 9 | 64 | 52 | 45 | 40 | 63 | 52 | 45 | 40 | 51 | 44 | 40 | 50 | 44 | 40 | 49 | 44 | 40 | 38 | | | | |
| 10 | 60 | 49 | 42 | 37 | 59 | 48 | 41 | 37 | 47 | 41 | 37 | 46 | 41 | 36 | 45 | 40 | 36 | 35 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|-------|-------|-------|
| 0° | 53957 | 53957 | 53957 | 53957 | 53957 |
| 5° | 79248 | 76223 | 54163 | 32329 | 25327 |
| 10° | 82176 | 79937 | 53478 | 15459 | 6261 |
| 15° | 108227 | 85226 | 51528 | 5545 | 5420 |
| 20° | 123619 | 100966 | 46900 | 5315 | 5443 |
| 25° | 139974 | 111869 | 36827 | 5131 | 5397 |
| 30° | 147419 | 115203 | 22830 | 5111 | 5767 |
| 35° | 149884 | 114983 | 7527 | 5256 | 6097 |
| 40° | 152541 | 104587 | 3642 | 5621 | 6677 |
| 45° | 150130 | 96036 | 3775 | 5918 | 7234 |
| 50° | 111620 | 17737 | 3805 | 6511 | 7958 |
| 55° | 8918 | 2432 | 4054 | 6906 | 8527 |
| 60° | 1860 | 2549 | 3961 | 6992 | 8852 |
| 65° | 1915 | 2486 | 3871 | 6887 | 9088 |
| 70° | 1712 | 2367 | 3726 | 6445 | 8862 |
| 75° | 1331 | 2262 | 3127 | 6321 | 8517 |
| 80° | 1389 | 1984 | 3372 | 6050 | 8034 |
| 85° | 1383 | 2766 | 3952 | 5335 | 6719 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 151932 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 28.5 | 4.8 |
| 10°-20° | 80.2 | 13.5 |
| 20°-30° | 134.6 | 22.6 |
| 30°-40° | 161.9 | 27.2 |
| 40°-50° | 128.3 | 21.6 |
| 50°-60° | 41.1 | 6.9 |
| 60°-70° | 11.5 | 1.9 |
| 70°-80° | 6.9 | 1.2 |
| 80°-90° | 2.2 | 0.4 |
| 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°-30° | 243.3 | 40.9 |
| 0°-40° | 405.2 | 68.1 |
| 0°-60° | 574.6 | 96.6 |
| 0°-90° | 595.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 595.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 313 | 313 | 313 | 313 | 313 | |
| 5° | 458 | 441 | 313 | 187 | 146 | 43 |
| 15° | 607 | 478 | 289 | 31 | 30 | 171 |
| 25° | 737 | 589 | 194 | 27 | 28 | 337 |
| 35° | 713 | 547 | 36 | 25 | 29 | 447 |
| 45° | 616 | 394 | 16 | 24 | 30 | 443 |
| 55° | 30 | 8 | 14 | 23 | 28 | 93 |
| 65° | 5 | 6 | 10 | 17 | 22 | 5 |
| 75° | 2 | 3 | 5 | 10 | 13 | 2 |
| 85° | 1 | 1 | 2 | 3 | 3 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1317557

CATALOG NUMBER: LDSQA3D13R709827DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 313.3 | 313.3 | 313.3 | 313.3 | 313.3 | 313.3 | 313.3 | 313.3 | 313.3 | 313.3 | 313.3 |
| 2.5° | 417.9 | 420.6 | 420.6 | 417.2 | 418.6 | 413.2 | 409.1 | 403.1 | 401.7 | 394.3 | 384.8 |
| 5° | 458.4 | 457.1 | 457.1 | 454.4 | 455.7 | 453.7 | 451.7 | 450.3 | 446.3 | 440.9 | 435.5 |
| 7.5° | 459.1 | 460.4 | 461.1 | 460.4 | 463.1 | 461.1 | 461.1 | 461.1 | 458.4 | 455.7 | 450.3 |
| 10° | 469.9 | 467.9 | 465.8 | 461.1 | 458.4 | 456.4 | 456.4 | 457.1 | 458.4 | 457.1 | 453.7 |
| 12.5° | 547.5 | 540.1 | 536.7 | 525.3 | 516.5 | 501.6 | 484.8 | 471.9 | 460.4 | 456.4 | 453.7 |
| 15° | 607.0 | 605.6 | 598.8 | 588.0 | 577.2 | 559.7 | 540.1 | 520.5 | 499.6 | 478.0 | 462.5 |
| 17.5° | 642.1 | 639.4 | 632.6 | 621.1 | 608.3 | 592.1 | 576.6 | 561.7 | 541.5 | 517.2 | 492.2 |
| 20° | 674.5 | 668.4 | 659.6 | 646.1 | 633.3 | 617.8 | 600.9 | 586.7 | 569.8 | 550.9 | 521.9 |
| 22.5° | 703.5 | 698.1 | 683.9 | 665.7 | 652.9 | 638.0 | 623.2 | 609.7 | 594.1 | 572.5 | 546.2 |
| 25° | 736.6 | 724.4 | 701.5 | 677.8 | 662.3 | 650.2 | 639.4 | 628.6 | 612.4 | 588.7 | 557.7 |
| 27.5° | 752.8 | 735.9 | 710.9 | 687.3 | 672.4 | 659.6 | 648.1 | 637.3 | 619.1 | 590.1 | 554.3 |
| 30° | 741.3 | 731.9 | 714.3 | 696.1 | 683.9 | 671.8 | 658.3 | 642.1 | 613.0 | 579.3 | 546.2 |
| 32.5° | 727.8 | 723.1 | 715.0 | 704.2 | 696.7 | 684.6 | 665.7 | 639.4 | 598.8 | 565.8 | 530.0 |
| 35° | 712.9 | 710.9 | 708.2 | 703.5 | 698.8 | 687.3 | 663.7 | 625.2 | 584.7 | 546.9 | 512.4 |
| 37.5° | 697.4 | 695.4 | 697.4 | 696.7 | 692.7 | 677.8 | 642.1 | 606.3 | 564.4 | 525.9 | 459.1 |
| 40° | 678.5 | 677.2 | 680.5 | 683.9 | 679.2 | 659.6 | 621.1 | 577.9 | 540.8 | 465.2 | 442.2 |
| 42.5° | 656.2 | 655.6 | 661.6 | 664.3 | 657.6 | 628.6 | 583.3 | 551.6 | 473.3 | 449.0 | 395.0 |
| 45° | 616.4 | 617.8 | 620.5 | 623.8 | 619.8 | 588.0 | 546.9 | 488.8 | 454.4 | 394.3 | 224.8 |
| 47.5° | 482.7 | 484.1 | 497.6 | 525.9 | 545.5 | 534.7 | 499.6 | 456.4 | 406.4 | 225.5 | 70.9 |
| 50° | 416.6 | 415.2 | 415.9 | 422.6 | 438.2 | 453.0 | 442.2 | 418.6 | 242.4 | 66.2 | 8.8 |
| 52.5° | 183.0 | 203.2 | 224.8 | 285.6 | 324.7 | 365.9 | 374.0 | 262.0 | 79.0 | 8.8 | 8.8 |
| 55° | 29.7 | 31.1 | 39.2 | 57.4 | 103.3 | 156.0 | 189.0 | 87.8 | 8.1 | 8.1 | 8.1 |
| 57.5° | 6.1 | 6.1 | 6.1 | 6.8 | 10.1 | 21.6 | 25.0 | 7.4 | 7.4 | 7.4 | 8.1 |
| 60° | 5.4 | 5.4 | 5.4 | 5.4 | 6.1 | 6.1 | 6.1 | 6.8 | 6.8 | 7.4 | 7.4 |
| 62.5° | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 6.1 | 6.1 | 6.8 | 6.8 | 7.4 |
| 65° | 4.7 | 4.7 | 4.7 | 4.7 | 5.4 | 5.4 | 5.4 | 5.4 | 6.1 | 6.1 | 6.8 |
| 67.5° | 4.1 | 4.1 | 4.1 | 4.1 | 4.7 | 4.7 | 4.7 | 5.4 | 5.4 | 5.4 | 6.1 |
| 70° | 3.4 | 3.4 | 3.4 | 3.4 | 4.1 | 4.1 | 4.1 | 4.1 | 4.7 | 4.7 | 4.7 |
| 72.5° | 2.7 | 2.7 | 2.7 | 2.7 | 3.4 | 3.4 | 3.4 | 3.4 | 4.1 | 4.1 | 4.1 |
| 75° | 2.0 | 2.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 3.4 | 3.4 | 3.4 |
| 77.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.7 | 2.7 | 2.7 | 2.7 |
| 80° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 82.5° | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 85° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 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):

| | 55° | 60° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0° | 313.3 | 313.3 | 313.3 | 313.3 | 313.3 | 313.3 | 313.3 | 313.3 |
| 2.5° | 378.8 | 369.3 | 356.5 | 314.6 | 276.1 | 241.0 | 223.5 | 221.4 |
| 5° | 426.7 | 417.9 | 396.3 | 313.3 | 239.7 | 187.0 | 155.3 | 146.5 |
| 7.5° | 444.9 | 437.5 | 418.6 | 310.6 | 205.2 | 134.4 | 98.6 | 85.1 |
| 10° | 449.6 | 444.9 | 428.7 | 305.8 | 169.5 | 88.4 | 46.6 | 35.8 |
| 12.5° | 451.7 | 448.3 | 432.8 | 298.4 | 133.7 | 45.9 | 31.7 | 31.7 |
| 15° | 455.0 | 451.7 | 436.8 | 289.0 | 98.6 | 31.1 | 30.4 | 30.4 |
| 17.5° | 469.9 | 459.1 | 442.2 | 274.8 | 64.8 | 29.7 | 29.7 | 29.7 |
| 20° | 494.2 | 470.6 | 444.9 | 255.9 | 40.5 | 29.0 | 29.0 | 29.7 |
| 22.5° | 514.5 | 482.7 | 444.2 | 227.5 | 29.7 | 27.7 | 28.4 | 29.0 |
| 25° | 523.2 | 488.1 | 438.2 | 193.8 | 25.7 | 27.0 | 28.4 | 28.4 |
| 27.5° | 521.9 | 490.2 | 432.8 | 155.3 | 24.3 | 26.3 | 27.7 | 29.0 |
| 30° | 514.5 | 484.8 | 420.6 | 114.8 | 23.0 | 25.7 | 27.7 | 29.0 |
| 32.5° | 501.6 | 463.8 | 396.3 | 74.3 | 22.3 | 25.7 | 27.7 | 29.0 |
| 35° | 459.8 | 430.1 | 361.2 | 35.8 | 21.6 | 25.0 | 28.4 | 29.0 |
| 37.5° | 435.5 | 394.3 | 275.5 | 17.6 | 20.9 | 25.0 | 28.4 | 29.0 |
| 40° | 396.3 | 294.4 | 124.2 | 16.2 | 20.9 | 25.0 | 28.4 | 29.7 |
| 42.5° | 249.1 | 120.9 | 20.3 | 15.5 | 20.3 | 25.0 | 28.4 | 29.7 |
| 45° | 91.1 | 16.2 | 10.8 | 15.5 | 20.3 | 24.3 | 28.4 | 29.7 |
| 47.5° | 9.5 | 9.5 | 10.1 | 14.9 | 19.6 | 24.3 | 28.4 | 29.7 |
| 50° | 8.8 | 9.5 | 10.1 | 14.2 | 18.9 | 24.3 | 27.7 | 29.7 |
| 52.5° | 8.8 | 9.5 | 10.1 | 14.2 | 18.2 | 23.6 | 27.7 | 29.7 |
| 55° | 8.8 | 9.5 | 9.5 | 13.5 | 17.6 | 23.0 | 27.0 | 28.4 |
| 57.5° | 8.1 | 8.8 | 9.5 | 12.8 | 16.9 | 21.6 | 26.3 | 27.7 |
| 60° | 8.1 | 8.8 | 9.5 | 11.5 | 16.2 | 20.3 | 25.0 | 25.7 |
| 62.5° | 7.4 | 8.1 | 8.8 | 10.8 | 14.9 | 18.9 | 23.0 | 24.3 |
| 65° | 7.4 | 7.4 | 8.1 | 9.5 | 13.5 | 16.9 | 20.9 | 22.3 |
| 67.5° | 6.1 | 6.8 | 6.8 | 8.1 | 11.5 | 14.9 | 18.9 | 20.3 |
| 70° | 5.4 | 5.4 | 6.1 | 7.4 | 10.1 | 12.8 | 16.2 | 17.6 |
| 72.5° | 4.7 | 4.7 | 4.7 | 6.1 | 8.8 | 11.5 | 14.2 | 15.5 |
| 75° | 4.1 | 4.1 | 4.1 | 4.7 | 7.4 | 9.5 | 12.2 | 12.8 |
| 77.5° | 3.4 | 3.4 | 3.4 | 4.1 | 6.1 | 8.1 | 9.5 | 10.8 |
| 80° | 2.7 | 2.7 | 2.7 | 3.4 | 4.7 | 6.1 | 7.4 | 8.1 |
| 82.5° | 2.0 | 2.0 | 2.0 | 2.7 | 3.4 | 4.1 | 5.4 | 5.4 |
| 85° | 1.4 | 1.4 | 1.4 | 2.0 | 2.0 | 2.7 | 3.4 | 3.4 |
| 87.5° | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)