

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: P1325151

Luminaire Tested: LDSQA3D05R45W2N902750DE010 3LSQCA30R 1MW_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R45W2N902750DE010 3LSQCA30R 1MW_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 2700K CCT AND, 90CRI ,
3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

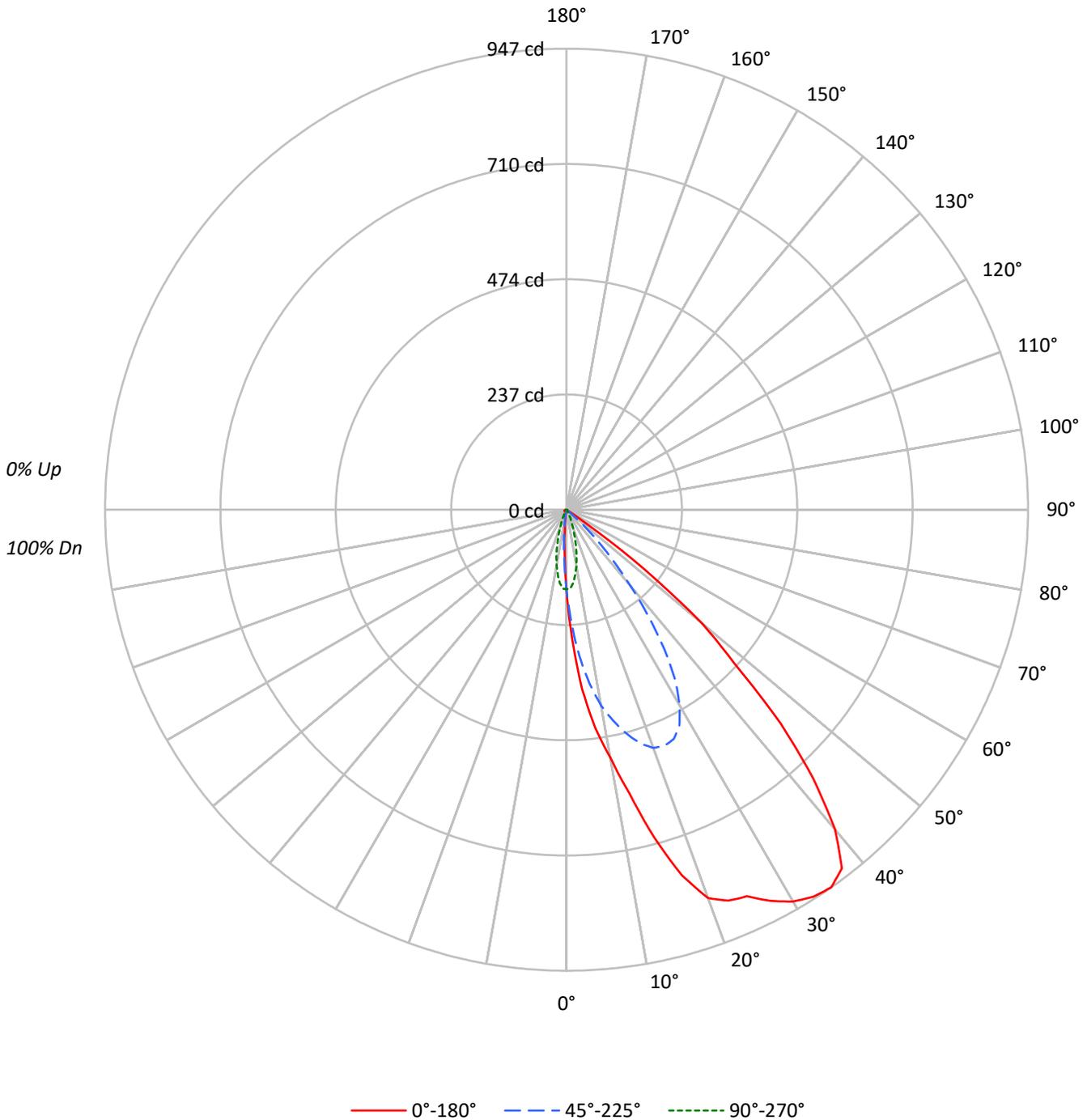
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 429.0 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 5.9
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

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Luminous Intensity Polar Plot





TEST NUMBER: P1325151

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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 97 | 96 | 96 | 94 | 93 | 91 |
| 2 | 105 | 100 | 95 | 91 | 103 | 98 | 93 | 90 | 95 | 91 | 88 | 91 | 88 | 86 | 89 | 86 | 84 | 82 |
| 3 | 99 | 91 | 85 | 80 | 96 | 89 | 84 | 80 | 87 | 82 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 74 |
| 4 | 92 | 83 | 76 | 71 | 90 | 82 | 76 | 71 | 80 | 74 | 70 | 77 | 73 | 69 | 76 | 72 | 68 | 67 |
| 5 | 86 | 76 | 69 | 64 | 84 | 75 | 68 | 64 | 73 | 67 | 63 | 71 | 66 | 62 | 70 | 65 | 62 | 60 |
| 6 | 81 | 70 | 63 | 57 | 79 | 69 | 62 | 57 | 67 | 61 | 57 | 66 | 60 | 56 | 64 | 60 | 56 | 54 |
| 7 | 75 | 64 | 57 | 52 | 74 | 63 | 57 | 52 | 62 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 49 |
| 8 | 71 | 59 | 52 | 47 | 69 | 59 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 46 | 45 |
| 9 | 66 | 55 | 48 | 43 | 65 | 54 | 47 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 51 | 46 | 42 | 41 |
| 10 | 62 | 51 | 44 | 39 | 61 | 50 | 44 | 39 | 49 | 43 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 37 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|-------|-------|-------|-------|
| 0° | 28107 | 28107 | 28107 | 28107 | 28107 |
| 5° | 64070 | 51985 | 26295 | 10546 | 7192 |
| 10° | 90290 | 71403 | 20321 | 2326 | 1067 |
| 15° | 124416 | 84959 | 12980 | 767 | 642 |
| 20° | 155583 | 95413 | 6781 | 531 | 531 |
| 25° | 166482 | 98795 | 3135 | 418 | 475 |
| 30° | 184786 | 92254 | 1432 | 438 | 497 |
| 35° | 199060 | 73544 | 463 | 463 | 610 |
| 40° | 192626 | 45571 | 247 | 562 | 719 |
| 45° | 151251 | 21506 | 268 | 706 | 877 |
| 50° | 97179 | 2492 | 375 | 857 | 1152 |
| 55° | 14773 | 210 | 420 | 1081 | 1411 |
| 60° | 241 | 241 | 482 | 1240 | 1481 |
| 65° | 285 | 285 | 571 | 1304 | 1752 |
| 70° | 352 | 352 | 705 | 1460 | 1964 |
| 75° | 266 | 466 | 932 | 1664 | 2129 |
| 80° | 397 | 694 | 1091 | 1785 | 2479 |
| 85° | 0 | 790 | 1383 | 2174 | 2174 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 151251 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 17.9 | 4.2 |
| 10°-20° | 64.6 | 15.1 |
| 20°-30° | 113.5 | 26.5 |
| 30°-40° | 128.9 | 30.0 |
| 40°-50° | 83.4 | 19.5 |
| 50°-60° | 16.4 | 3.8 |
| 60°-70° | 2.0 | 0.5 |
| 70°-80° | 1.7 | 0.4 |
| 80°-90° | 0.8 | 0.2 |
| 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° | 195.9 | 45.7 |
| 0°-40° | 324.8 | 75.7 |
| 0°-60° | 424.6 | 99.0 |
| 0°-90° | 429.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 429.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 163 | 163 | 163 | 163 | 163 | |
| 5° | 371 | 301 | 152 | 61 | 42 | 39 |
| 15° | 698 | 476 | 73 | 4 | 4 | 201 |
| 25° | 876 | 520 | 16 | 2 | 2 | 411 |
| 35° | 947 | 350 | 2 | 2 | 3 | 582 |
| 45° | 621 | 88 | 1 | 3 | 4 | 468 |
| 55° | 49 | 1 | 1 | 4 | 5 | 94 |
| 65° | 1 | 1 | 1 | 3 | 4 | 1 |
| 75° | 0 | 1 | 1 | 2 | 3 | 0 |
| 85° | 0 | 0 | 1 | 1 | 1 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1325151

CATALOG NUMBER: LDSQA3D05R45W2N902750DE010 3LSQCA30R 1MW_2700K

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 163.2 | 163.2 | 163.2 | 163.2 | 163.2 | 163.2 | 163.2 | 163.2 | 163.2 | 163.2 | 163.2 |
| 2.5° | 265.1 | 264.4 | 265.5 | 258.3 | 258.0 | 252.6 | 251.1 | 245.0 | 236.8 | 232.8 | 223.5 |
| 5° | 370.6 | 367.0 | 367.0 | 358.4 | 355.5 | 349.4 | 339.0 | 326.1 | 315.4 | 300.7 | 284.9 |
| 7.5° | 452.1 | 451.3 | 451.3 | 443.8 | 436.6 | 428.0 | 414.0 | 399.3 | 382.1 | 359.5 | 336.5 |
| 10° | 516.3 | 517.4 | 514.1 | 507.3 | 496.9 | 487.6 | 471.1 | 453.1 | 432.0 | 408.3 | 377.8 |
| 12.5° | 597.4 | 589.5 | 587.0 | 571.5 | 558.3 | 540.3 | 520.6 | 500.1 | 473.9 | 444.2 | 409.7 |
| 15° | 697.8 | 687.8 | 677.7 | 657.3 | 635.0 | 607.4 | 576.6 | 546.4 | 512.7 | 476.5 | 433.4 |
| 17.5° | 787.5 | 787.5 | 774.2 | 741.9 | 713.2 | 672.3 | 630.7 | 590.5 | 550.7 | 503.0 | 449.2 |
| 20° | 848.9 | 845.6 | 835.6 | 811.9 | 779.3 | 733.0 | 678.8 | 622.5 | 574.4 | 520.6 | 458.2 |
| 22.5° | 869.0 | 868.2 | 868.6 | 854.6 | 828.4 | 780.3 | 714.0 | 647.6 | 587.3 | 524.9 | 453.9 |
| 25° | 876.1 | 877.6 | 881.2 | 875.8 | 856.0 | 808.0 | 735.5 | 659.4 | 591.3 | 519.9 | 437.3 |
| 27.5° | 905.9 | 903.0 | 907.0 | 903.4 | 881.2 | 823.7 | 739.8 | 656.6 | 582.7 | 501.6 | 407.9 |
| 30° | 929.2 | 928.5 | 935.3 | 932.1 | 903.0 | 833.8 | 735.8 | 645.8 | 561.5 | 463.9 | 361.6 |
| 32.5° | 942.5 | 942.9 | 944.7 | 931.4 | 888.3 | 811.9 | 716.5 | 623.9 | 521.7 | 414.7 | 301.4 |
| 35° | 946.8 | 944.7 | 934.6 | 902.0 | 843.1 | 761.3 | 668.8 | 571.9 | 467.5 | 349.8 | 238.2 |
| 37.5° | 928.2 | 917.0 | 891.2 | 842.4 | 774.2 | 697.8 | 607.8 | 506.2 | 393.2 | 276.3 | 177.6 |
| 40° | 856.8 | 842.0 | 809.4 | 759.5 | 696.0 | 622.1 | 529.9 | 423.7 | 305.0 | 202.7 | 124.9 |
| 42.5° | 749.8 | 742.3 | 708.2 | 664.8 | 611.0 | 536.4 | 441.3 | 333.7 | 225.7 | 139.9 | 79.6 |
| 45° | 621.0 | 611.4 | 589.8 | 551.4 | 509.1 | 430.9 | 342.3 | 238.9 | 153.9 | 88.3 | 39.5 |
| 47.5° | 465.7 | 466.4 | 451.7 | 422.6 | 381.0 | 315.7 | 234.3 | 160.4 | 96.5 | 45.6 | 9.0 |
| 50° | 362.7 | 357.7 | 336.9 | 307.1 | 258.7 | 210.2 | 151.4 | 101.2 | 50.9 | 9.3 | 0.7 |
| 52.5° | 200.9 | 204.1 | 193.0 | 183.3 | 158.2 | 125.6 | 89.3 | 51.3 | 10.8 | 1.1 | 0.7 |
| 55° | 49.2 | 52.0 | 49.9 | 50.9 | 52.7 | 47.0 | 36.2 | 10.0 | 1.1 | 0.7 | 0.7 |
| 57.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.8 | 2.5 | 2.5 | 0.7 | 0.7 | 0.7 | 0.7 |
| 60° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 62.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 65° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 67.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 70° | 0.7 | 0.7 | 0.7 | 0.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 72.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.7 | 0.7 | 0.7 |
| 75° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.7 | 0.7 | 0.7 |
| 77.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.7 | 0.7 |
| 80° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.7 | 0.7 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.7 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 0.4 | 0.4 |
| 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):

| | 55° | 60° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0° | 163.2 | 163.2 | 163.2 | 163.2 | 163.2 | 163.2 | 163.2 | 163.2 |
| 2.5° | 218.9 | 212.0 | 199.5 | 162.2 | 130.2 | 105.1 | 90.1 | 88.6 |
| 5° | 270.9 | 252.6 | 226.0 | 152.1 | 96.2 | 61.0 | 44.1 | 41.6 |
| 7.5° | 312.1 | 286.3 | 245.4 | 135.6 | 65.7 | 31.2 | 17.2 | 14.4 |
| 10° | 346.2 | 309.6 | 255.4 | 116.2 | 41.3 | 13.3 | 7.2 | 6.1 |
| 12.5° | 369.5 | 325.4 | 257.2 | 94.7 | 23.7 | 6.5 | 4.7 | 4.3 |
| 15° | 384.6 | 330.4 | 248.6 | 72.8 | 13.3 | 4.3 | 3.9 | 3.6 |
| 17.5° | 390.7 | 326.1 | 232.1 | 52.7 | 7.2 | 3.2 | 3.2 | 3.2 |
| 20° | 387.8 | 312.1 | 207.7 | 37.0 | 4.7 | 2.9 | 2.9 | 2.9 |
| 22.5° | 374.2 | 288.1 | 177.2 | 24.8 | 3.2 | 2.5 | 2.5 | 2.5 |
| 25° | 347.3 | 255.4 | 144.9 | 16.5 | 2.2 | 2.2 | 2.5 | 2.5 |
| 27.5° | 307.1 | 215.3 | 110.9 | 11.1 | 1.8 | 2.2 | 2.5 | 2.5 |
| 30° | 256.5 | 170.4 | 79.6 | 7.2 | 1.8 | 2.2 | 2.2 | 2.5 |
| 32.5° | 203.8 | 124.1 | 52.4 | 4.3 | 1.4 | 2.2 | 2.5 | 2.9 |
| 35° | 147.8 | 84.7 | 33.4 | 2.2 | 1.8 | 2.2 | 2.5 | 2.9 |
| 37.5° | 103.7 | 55.3 | 19.4 | 1.4 | 1.8 | 2.2 | 2.9 | 2.9 |
| 40° | 67.4 | 30.9 | 7.2 | 1.1 | 1.8 | 2.5 | 2.9 | 3.2 |
| 42.5° | 35.2 | 10.8 | 1.4 | 1.1 | 1.8 | 2.5 | 3.2 | 3.6 |
| 45° | 9.0 | 1.4 | 0.4 | 1.1 | 2.2 | 2.9 | 3.6 | 3.6 |
| 47.5° | 1.1 | 0.4 | 0.4 | 1.4 | 2.2 | 3.2 | 3.6 | 3.9 |
| 50° | 0.4 | 0.7 | 0.7 | 1.4 | 2.2 | 3.2 | 3.9 | 4.3 |
| 52.5° | 0.7 | 0.7 | 0.7 | 1.4 | 2.5 | 3.2 | 4.3 | 4.7 |
| 55° | 0.7 | 0.7 | 0.7 | 1.4 | 2.5 | 3.6 | 4.3 | 4.7 |
| 57.5° | 0.7 | 0.7 | 0.7 | 1.4 | 2.5 | 3.6 | 4.3 | 4.3 |
| 60° | 0.7 | 0.7 | 0.7 | 1.4 | 2.5 | 3.6 | 4.3 | 4.3 |
| 62.5° | 0.7 | 0.7 | 1.1 | 1.4 | 2.5 | 3.2 | 4.3 | 4.3 |
| 65° | 0.7 | 1.1 | 1.1 | 1.4 | 2.5 | 3.2 | 3.9 | 4.3 |
| 67.5° | 0.7 | 0.7 | 1.1 | 1.4 | 2.5 | 3.2 | 3.9 | 4.3 |
| 70° | 0.7 | 0.7 | 1.1 | 1.4 | 2.2 | 2.9 | 3.6 | 3.9 |
| 72.5° | 0.7 | 0.7 | 1.1 | 1.4 | 2.2 | 2.9 | 3.2 | 3.6 |
| 75° | 0.7 | 0.7 | 1.1 | 1.4 | 1.8 | 2.5 | 3.2 | 3.2 |
| 77.5° | 0.7 | 0.7 | 1.1 | 1.1 | 1.8 | 2.2 | 2.9 | 2.9 |
| 80° | 0.7 | 0.7 | 1.1 | 1.1 | 1.4 | 1.8 | 2.2 | 2.5 |
| 82.5° | 0.7 | 0.7 | 0.7 | 1.1 | 1.1 | 1.4 | 1.8 | 1.8 |
| 85° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.1 | 1.1 | 1.1 |
| 87.5° | 0.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)