

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: P1306709

Luminaire Tested: LDSQA3D02R509024DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D02R509024DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

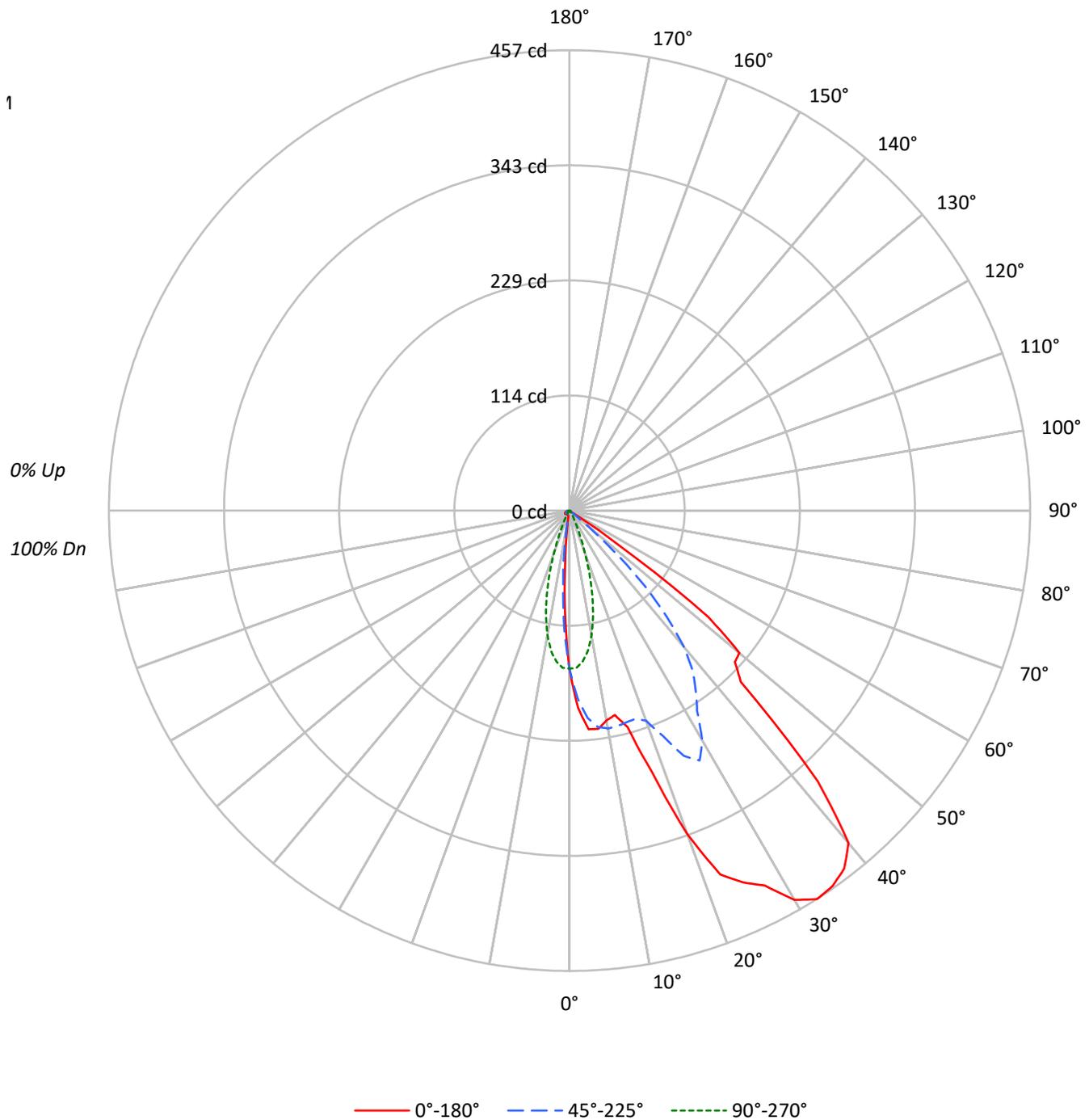
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 244.0 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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: P1306709
CATALOG NUMBER: LDSQA3D02R509024DE010 3LSQCA30R 1MW

Luminous Intensity Polar Plot





TEST NUMBER: P1306709

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF | 20 | | | | 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 | 102 | 102 | 102 | 100 |
| 1 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 101 | 102 | 100 | 98 | 99 | 97 | 95 | 95 | 94 | 93 | 95 | 94 | 93 | 91 |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | 91 | 88 | 85 | 88 | 85 | 83 | 88 | 85 | 83 | 81 |
| 3 | 98 | 90 | 84 | 79 | 96 | 88 | 83 | 78 | 86 | 81 | 77 | 83 | 79 | 76 | 81 | 77 | 74 | 81 | 77 | 74 | 73 |
| 4 | 91 | 82 | 75 | 70 | 89 | 81 | 74 | 69 | 78 | 73 | 68 | 76 | 71 | 68 | 74 | 70 | 67 | 74 | 70 | 67 | 65 |
| 5 | 85 | 75 | 67 | 62 | 83 | 74 | 67 | 62 | 72 | 66 | 61 | 70 | 65 | 61 | 68 | 64 | 60 | 68 | 64 | 60 | 58 |
| 6 | 79 | 68 | 61 | 56 | 78 | 68 | 61 | 55 | 66 | 60 | 55 | 64 | 59 | 55 | 63 | 58 | 54 | 63 | 58 | 54 | 53 |
| 7 | 74 | 63 | 55 | 50 | 73 | 62 | 55 | 50 | 61 | 54 | 50 | 59 | 54 | 49 | 58 | 53 | 49 | 58 | 53 | 49 | 47 |
| 8 | 69 | 58 | 51 | 45 | 68 | 57 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 54 | 49 | 45 | 43 |
| 9 | 65 | 53 | 46 | 41 | 64 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 50 | 45 | 41 | 39 |
| 10 | 61 | 50 | 43 | 38 | 60 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 46 | 41 | 37 | 46 | 41 | 37 | 36 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 27022 | 27022 | 27022 | 27022 | 27022 |
| 5° | 37671 | 35734 | 25967 | 12482 | 8091 |
| 10° | 36987 | 38404 | 21947 | 2623 | 1119 |
| 15° | 39653 | 38815 | 15512 | 927 | 874 |
| 20° | 62625 | 40651 | 8192 | 788 | 825 |
| 25° | 77379 | 51041 | 3268 | 741 | 817 |
| 30° | 88714 | 52341 | 1332 | 736 | 855 |
| 35° | 95640 | 45939 | 589 | 778 | 946 |
| 40° | 96808 | 39568 | 427 | 877 | 1057 |
| 45° | 58503 | 25647 | 414 | 950 | 1193 |
| 50° | 58945 | 4421 | 455 | 1099 | 1393 |
| 55° | 17415 | 270 | 510 | 1231 | 1561 |
| 60° | 310 | 310 | 517 | 1343 | 1688 |
| 65° | 245 | 245 | 530 | 1386 | 1834 |
| 70° | 302 | 302 | 554 | 1511 | 2065 |
| 75° | 266 | 266 | 599 | 1597 | 2129 |
| 80° | 198 | 397 | 595 | 1488 | 2380 |
| 85° | 395 | 790 | 790 | 1778 | 2174 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 66833 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 12.7 | 5.2 |
| 10°-20° | 31.5 | 12.9 |
| 20°-30° | 59.0 | 24.2 |
| 30°-40° | 70.6 | 28.9 |
| 40°-50° | 50.6 | 20.7 |
| 50°-60° | 15.6 | 6.4 |
| 60°-70° | 2.0 | 0.8 |
| 70°-80° | 1.5 | 0.6 |
| 80°-90° | 0.6 | 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° | 103.2 | 42.3 |
| 0°-40° | 173.7 | 71.2 |
| 0°-60° | 239.9 | 98.3 |
| 0°-90° | 244.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 244.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 157 | 157 | 157 | 157 | 157 | |
| 5° | 218 | 207 | 150 | 72 | 47 | 20 |
| 15° | 222 | 218 | 87 | 5 | 5 | 71 |
| 25° | 407 | 269 | 17 | 4 | 4 | 188 |
| 35° | 455 | 218 | 3 | 4 | 4 | 282 |
| 45° | 240 | 105 | 2 | 4 | 5 | 221 |
| 55° | 58 | 1 | 2 | 4 | 5 | 75 |
| 65° | 1 | 1 | 1 | 3 | 4 | 1 |
| 75° | 0 | 0 | 1 | 2 | 3 | 0 |
| 85° | 0 | 0 | 0 | 1 | 1 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1306709

CATALOG NUMBER: LDSQA3D02R509024DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 156.9 | 156.9 | 156.9 | 156.9 | 156.9 | 156.9 | 156.9 | 156.9 | 156.9 | 156.9 | 156.9 |
| 2.5° | 196.2 | 196.6 | 197.3 | 195.6 | 194.5 | 193.6 | 192.1 | 191.7 | 188.0 | 186.5 | 185.0 |
| 5° | 217.9 | 217.5 | 217.9 | 217.3 | 216.8 | 215.5 | 214.2 | 212.1 | 209.7 | 206.7 | 203.3 |
| 7.5° | 218.5 | 218.1 | 219.0 | 219.0 | 219.8 | 219.8 | 219.8 | 220.0 | 218.8 | 216.6 | 213.6 |
| 10° | 211.5 | 211.5 | 212.3 | 211.9 | 213.4 | 214.0 | 215.5 | 218.1 | 219.4 | 219.6 | 218.8 |
| 12.5° | 207.8 | 207.8 | 208.0 | 207.2 | 207.6 | 208.2 | 209.9 | 213.0 | 216.0 | 219.0 | 220.7 |
| 15° | 222.4 | 222.8 | 219.8 | 215.5 | 212.3 | 208.9 | 207.8 | 209.7 | 213.0 | 217.7 | 221.6 |
| 17.5° | 272.1 | 272.7 | 269.5 | 259.2 | 249.3 | 235.1 | 222.4 | 216.2 | 212.7 | 216.6 | 221.8 |
| 20° | 341.7 | 339.3 | 333.7 | 322.8 | 308.4 | 286.5 | 266.7 | 246.7 | 227.6 | 221.8 | 223.5 |
| 22.5° | 390.9 | 390.0 | 385.5 | 373.3 | 360.8 | 340.4 | 315.2 | 287.3 | 259.6 | 242.0 | 232.7 |
| 25° | 407.2 | 406.6 | 402.5 | 395.2 | 388.3 | 372.8 | 350.3 | 322.1 | 293.1 | 268.6 | 245.4 |
| 27.5° | 419.5 | 418.6 | 412.2 | 404.0 | 396.9 | 381.2 | 360.6 | 339.3 | 312.7 | 279.6 | 243.9 |
| 30° | 446.1 | 443.8 | 434.7 | 420.1 | 406.6 | 384.9 | 362.1 | 335.7 | 299.6 | 263.2 | 228.4 |
| 32.5° | 457.3 | 456.0 | 448.3 | 436.4 | 421.6 | 393.3 | 358.7 | 314.4 | 266.9 | 235.5 | 210.2 |
| 35° | 454.9 | 453.0 | 445.0 | 431.5 | 413.5 | 386.2 | 340.0 | 279.1 | 240.5 | 218.5 | 190.0 |
| 37.5° | 447.8 | 445.0 | 435.6 | 419.7 | 397.8 | 362.1 | 301.7 | 250.6 | 225.6 | 200.9 | 162.5 |
| 40° | 430.6 | 426.1 | 415.2 | 398.6 | 376.7 | 329.9 | 266.9 | 233.4 | 210.2 | 176.0 | 131.7 |
| 42.5° | 364.9 | 362.5 | 367.9 | 365.1 | 345.8 | 290.5 | 242.2 | 217.7 | 185.7 | 142.3 | 95.4 |
| 45° | 240.2 | 244.3 | 254.0 | 270.5 | 274.4 | 249.9 | 222.0 | 191.9 | 152.8 | 105.3 | 55.0 |
| 47.5° | 222.4 | 221.6 | 223.9 | 227.1 | 227.8 | 217.5 | 192.1 | 158.6 | 113.5 | 60.2 | 15.3 |
| 50° | 220.0 | 218.8 | 216.8 | 213.0 | 204.8 | 184.8 | 156.0 | 115.6 | 65.5 | 16.5 | 1.1 |
| 52.5° | 173.8 | 172.6 | 172.6 | 167.0 | 156.4 | 137.1 | 107.7 | 63.6 | 18.3 | 1.1 | 0.9 |
| 55° | 58.0 | 61.9 | 61.2 | 61.0 | 65.8 | 60.6 | 46.4 | 16.3 | 1.5 | 0.9 | 0.9 |
| 57.5° | 1.1 | 1.1 | 1.1 | 1.9 | 3.0 | 4.3 | 2.6 | 1.3 | 0.9 | 0.9 | 0.9 |
| 60° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 62.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 65° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.9 |
| 67.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 70° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 72.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 |
| 75° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.6 |
| 77.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 80° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.4 | 0.4 | 0.4 | 0.4 |
| 82.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.4 | 0.4 | 0.4 |
| 85° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.4 | 0.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 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):

| | 55° | 60° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0° | 156.9 | 156.9 | 156.9 | 156.9 | 156.9 | 156.9 | 156.9 | 156.9 |
| 2.5° | 181.6 | 178.6 | 172.8 | 156.2 | 138.0 | 117.1 | 102.9 | 101.2 |
| 5° | 197.9 | 193.4 | 183.9 | 150.2 | 108.5 | 72.2 | 53.7 | 46.8 |
| 7.5° | 208.7 | 202.6 | 191.0 | 140.3 | 79.1 | 38.0 | 20.4 | 16.3 |
| 10° | 215.1 | 209.5 | 194.7 | 125.5 | 50.3 | 15.0 | 6.9 | 6.4 |
| 12.5° | 218.5 | 213.2 | 196.0 | 107.7 | 28.4 | 6.9 | 5.4 | 5.4 |
| 15° | 220.9 | 215.1 | 194.0 | 87.0 | 14.2 | 5.2 | 4.9 | 4.9 |
| 17.5° | 222.0 | 214.9 | 188.5 | 65.5 | 7.5 | 4.7 | 4.7 | 4.7 |
| 20° | 222.6 | 212.5 | 178.1 | 44.7 | 5.2 | 4.3 | 4.5 | 4.5 |
| 22.5° | 223.3 | 206.7 | 164.6 | 28.4 | 4.1 | 4.1 | 4.3 | 4.3 |
| 25° | 222.0 | 196.6 | 145.5 | 17.2 | 3.7 | 3.9 | 4.1 | 4.3 |
| 27.5° | 212.7 | 181.4 | 122.3 | 10.5 | 3.2 | 3.7 | 4.1 | 4.3 |
| 30° | 196.8 | 159.0 | 95.4 | 6.7 | 3.0 | 3.7 | 4.1 | 4.3 |
| 32.5° | 176.2 | 133.4 | 68.1 | 4.1 | 3.0 | 3.7 | 4.1 | 4.3 |
| 35° | 148.5 | 102.1 | 44.3 | 2.8 | 3.0 | 3.7 | 4.3 | 4.5 |
| 37.5° | 117.3 | 71.3 | 23.9 | 2.1 | 3.0 | 3.7 | 4.3 | 4.5 |
| 40° | 84.5 | 42.8 | 8.6 | 1.9 | 2.8 | 3.9 | 4.5 | 4.7 |
| 42.5° | 49.4 | 15.9 | 1.5 | 1.7 | 2.8 | 3.9 | 4.5 | 4.7 |
| 45° | 14.2 | 1.7 | 0.9 | 1.7 | 2.8 | 3.9 | 4.7 | 4.9 |
| 47.5° | 1.1 | 0.6 | 0.9 | 1.7 | 2.8 | 3.9 | 4.7 | 5.2 |
| 50° | 0.6 | 0.6 | 0.6 | 1.7 | 2.8 | 4.1 | 4.9 | 5.2 |
| 52.5° | 0.9 | 0.9 | 0.9 | 1.7 | 2.8 | 4.1 | 4.9 | 5.2 |
| 55° | 0.9 | 0.9 | 0.9 | 1.7 | 2.8 | 4.1 | 4.9 | 5.2 |
| 57.5° | 0.9 | 0.9 | 0.9 | 1.7 | 2.8 | 3.9 | 4.9 | 5.2 |
| 60° | 0.9 | 0.9 | 0.9 | 1.5 | 2.6 | 3.9 | 4.7 | 4.9 |
| 62.5° | 0.9 | 0.9 | 0.9 | 1.5 | 2.6 | 3.7 | 4.7 | 4.7 |
| 65° | 0.9 | 0.9 | 0.9 | 1.3 | 2.4 | 3.4 | 4.3 | 4.5 |
| 67.5° | 0.9 | 0.9 | 0.9 | 1.3 | 2.1 | 3.2 | 4.1 | 4.3 |
| 70° | 0.6 | 0.9 | 0.9 | 1.1 | 1.9 | 3.0 | 3.9 | 4.1 |
| 72.5° | 0.6 | 0.6 | 0.9 | 1.1 | 1.7 | 2.6 | 3.4 | 3.7 |
| 75° | 0.6 | 0.6 | 0.6 | 0.9 | 1.5 | 2.4 | 3.0 | 3.2 |
| 77.5° | 0.6 | 0.6 | 0.6 | 0.9 | 1.3 | 1.9 | 2.8 | 2.8 |
| 80° | 0.4 | 0.6 | 0.6 | 0.6 | 1.1 | 1.5 | 2.1 | 2.4 |
| 82.5° | 0.4 | 0.4 | 0.4 | 0.6 | 0.9 | 1.3 | 1.7 | 1.7 |
| 85° | 0.4 | 0.4 | 0.4 | 0.4 | 0.6 | 0.9 | 1.1 | 1.1 |
| 87.5° | 0.2 | 0.4 | 0.4 | 0.4 | 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 |

(END OF REPORT)