

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: P1308802

Luminaire Tested: LDSQA3D02R509030DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D02R509030DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

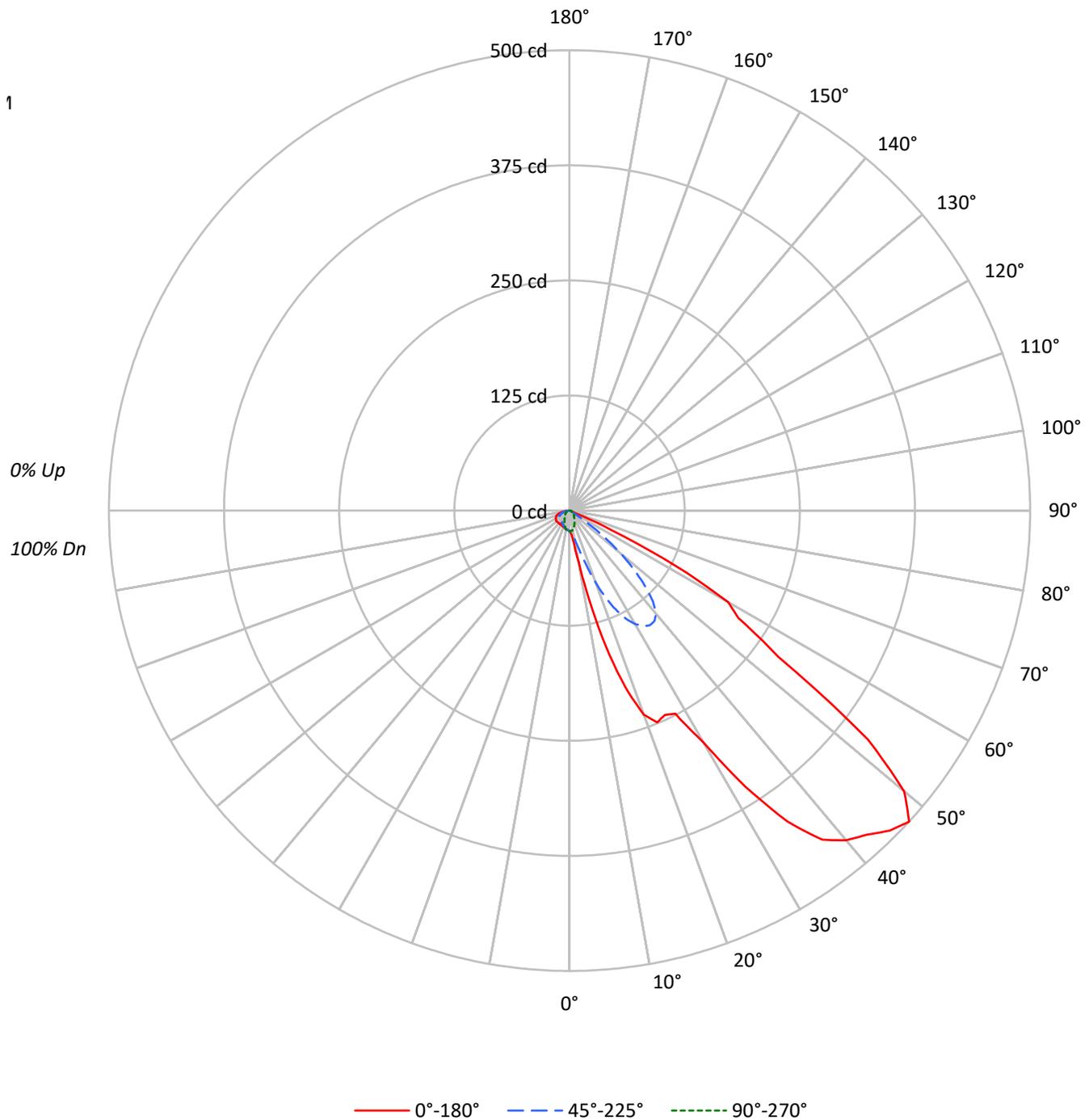
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 282.0 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
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 (A_{in}): 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





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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 | 100 | 100 | 100 | 100 |
| 1 | 110 | 106 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | 86 | 86 | 86 | 86 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 75 | 73 | 73 | 73 | 73 |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 | 61 | 61 | 61 |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 | 51 | 51 | 51 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 60 | 52 | 46 | 58 | 51 | 46 | 56 | 50 | 45 | 43 | 43 | 43 | 43 |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 39 | 51 | 44 | 39 | 50 | 43 | 39 | 37 | 37 | 37 | 37 |
| 7 | 63 | 50 | 41 | 34 | 62 | 49 | 40 | 34 | 47 | 39 | 34 | 46 | 39 | 34 | 44 | 38 | 33 | 31 | 31 | 31 | 31 |
| 8 | 58 | 44 | 36 | 30 | 57 | 44 | 35 | 29 | 42 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 27 | 27 | 27 | 27 |
| 9 | 54 | 40 | 31 | 26 | 53 | 39 | 31 | 26 | 38 | 31 | 25 | 37 | 30 | 25 | 36 | 30 | 25 | 23 | 23 | 23 | 23 |
| 10 | 50 | 36 | 28 | 23 | 49 | 36 | 28 | 22 | 35 | 27 | 22 | 34 | 27 | 22 | 33 | 27 | 22 | 20 | 20 | 20 | 20 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0° | 3858 | 3858 | 3858 | 3858 | 3858 |
| 5° | 4581 | 4287 | 3838 | 3665 | 3613 |
| 10° | 9881 | 5316 | 3655 | 3533 | 3585 |
| 15° | 27369 | 8737 | 3299 | 3388 | 3512 |
| 20° | 43253 | 15304 | 2859 | 3262 | 3446 |
| 25° | 46519 | 22499 | 2451 | 3154 | 3477 |
| 30° | 57731 | 28239 | 2128 | 3102 | 3580 |
| 35° | 86642 | 31957 | 1850 | 3133 | 3784 |
| 40° | 105081 | 32846 | 1641 | 3237 | 4002 |
| 45° | 119710 | 28180 | 1607 | 3434 | 4384 |
| 50° | 127053 | 19452 | 1634 | 3724 | 4903 |
| 55° | 83022 | 7837 | 1621 | 4023 | 5405 |
| 60° | 68476 | 1343 | 1584 | 4374 | 5959 |
| 65° | 20661 | 693 | 1508 | 4646 | 6561 |
| 70° | 856 | 755 | 1460 | 4784 | 7100 |
| 75° | 799 | 799 | 1464 | 4858 | 7785 |
| 80° | 694 | 694 | 1488 | 4860 | 7934 |
| 85° | 395 | 988 | 1976 | 4742 | 7707 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 127486 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 2.3 | 0.8 |
| 10°-20° | 13.4 | 4.7 |
| 20°-30° | 34.3 | 12.2 |
| 30°-40° | 61.7 | 21.9 |
| 40°-50° | 82.4 | 29.2 |
| 50°-60° | 62.7 | 22.2 |
| 60°-70° | 19.0 | 6.7 |
| 70°-80° | 4.6 | 1.6 |
| 80°-90° | 1.6 | 0.6 |
| 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° | 50.0 | 17.7 |
| 0°-40° | 111.7 | 39.6 |
| 0°-60° | 256.8 | 91.1 |
| 0°-90° | 282.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 282.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 22 | 22 | 22 | 22 | 22 | |
| 5° | 26 | 25 | 22 | 21 | 21 | 3 |
| 15° | 154 | 49 | 18 | 19 | 20 | 45 |
| 25° | 245 | 118 | 13 | 17 | 18 | 117 |
| 35° | 412 | 152 | 9 | 15 | 18 | 253 |
| 45° | 492 | 116 | 7 | 14 | 18 | 376 |
| 55° | 276 | 26 | 5 | 13 | 18 | 275 |
| 65° | 51 | 2 | 4 | 11 | 16 | 70 |
| 75° | 1 | 1 | 2 | 7 | 12 | 1 |
| 85° | 0 | 0 | 1 | 2 | 4 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1308802

CATALOG NUMBER: LDSQA3D02R509030DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 0° | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 |
| 2.5° | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.6 | 23.6 | 23.6 | 23.1 | 22.7 |
| 5° | 26.5 | 26.8 | 26.5 | 26.5 | 26.1 | 26.1 | 25.6 | 25.6 | 24.8 | 23.4 | 22.2 |
| 7.5° | 34.8 | 34.6 | 34.3 | 33.4 | 32.6 | 30.9 | 30.2 | 29.0 | 26.8 | 23.4 | 21.7 |
| 10° | 56.5 | 55.0 | 54.1 | 51.9 | 47.3 | 44.3 | 40.4 | 36.5 | 30.4 | 23.4 | 20.9 |
| 12.5° | 98.2 | 97.9 | 95.0 | 87.7 | 81.1 | 72.1 | 62.6 | 53.1 | 37.5 | 22.9 | 20.0 |
| 15° | 153.5 | 151.3 | 147.1 | 138.6 | 126.9 | 112.8 | 95.7 | 78.9 | 49.0 | 22.2 | 18.5 |
| 17.5° | 200.7 | 198.0 | 194.9 | 186.3 | 172.9 | 155.2 | 134.7 | 111.6 | 64.5 | 21.2 | 17.1 |
| 20° | 236.0 | 234.3 | 231.6 | 224.8 | 212.2 | 196.1 | 173.2 | 145.2 | 83.5 | 20.0 | 15.6 |
| 22.5° | 248.9 | 248.7 | 249.2 | 246.7 | 240.4 | 227.7 | 205.8 | 176.6 | 102.3 | 18.5 | 14.1 |
| 25° | 244.8 | 244.5 | 247.7 | 250.9 | 252.3 | 247.2 | 230.4 | 201.9 | 118.4 | 17.3 | 12.9 |
| 27.5° | 248.7 | 248.0 | 246.5 | 247.0 | 251.1 | 254.0 | 246.3 | 221.4 | 132.3 | 15.6 | 11.7 |
| 30° | 290.3 | 286.2 | 279.6 | 268.4 | 260.1 | 259.4 | 256.0 | 236.8 | 142.0 | 13.9 | 10.7 |
| 32.5° | 355.4 | 350.3 | 338.3 | 317.6 | 297.9 | 282.8 | 272.1 | 249.7 | 148.8 | 12.2 | 9.5 |
| 35° | 412.1 | 408.5 | 394.6 | 374.1 | 345.9 | 317.6 | 298.1 | 268.7 | 152.0 | 10.7 | 8.8 |
| 37.5° | 450.6 | 449.2 | 435.5 | 413.6 | 384.8 | 351.5 | 325.7 | 288.1 | 151.3 | 9.0 | 8.0 |
| 40° | 467.4 | 463.0 | 451.6 | 433.1 | 404.1 | 374.1 | 346.9 | 300.6 | 146.1 | 7.3 | 7.3 |
| 42.5° | 477.4 | 472.5 | 460.1 | 442.6 | 414.1 | 382.2 | 349.3 | 295.2 | 134.0 | 5.8 | 7.1 |
| 45° | 491.5 | 486.4 | 470.1 | 451.3 | 422.6 | 385.6 | 339.8 | 276.2 | 115.7 | 4.4 | 6.6 |
| 47.5° | 500.1 | 496.6 | 484.5 | 465.7 | 430.9 | 380.7 | 317.9 | 258.4 | 95.5 | 3.4 | 6.3 |
| 50° | 474.2 | 470.8 | 461.8 | 448.9 | 425.5 | 364.4 | 298.6 | 229.7 | 72.6 | 2.7 | 6.1 |
| 52.5° | 408.2 | 411.2 | 412.9 | 416.5 | 399.5 | 327.9 | 269.9 | 206.8 | 49.0 | 2.2 | 5.6 |
| 55° | 276.5 | 280.8 | 285.7 | 300.3 | 320.3 | 291.8 | 239.7 | 178.8 | 26.1 | 2.2 | 5.4 |
| 57.5° | 217.3 | 215.8 | 214.3 | 213.4 | 229.0 | 240.7 | 210.7 | 143.0 | 11.2 | 2.2 | 4.9 |
| 60° | 198.8 | 194.4 | 191.4 | 192.2 | 200.0 | 195.3 | 166.8 | 93.3 | 3.9 | 2.2 | 4.6 |
| 62.5° | 130.3 | 133.7 | 140.3 | 151.5 | 146.1 | 125.4 | 96.9 | 37.0 | 1.9 | 2.2 | 4.1 |
| 65° | 50.7 | 49.0 | 50.7 | 53.8 | 46.5 | 34.6 | 21.7 | 6.6 | 1.7 | 1.9 | 3.7 |
| 67.5° | 6.8 | 6.1 | 4.6 | 2.9 | 2.7 | 2.4 | 1.9 | 1.7 | 1.7 | 1.9 | 3.4 |
| 70° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.5 | 1.5 | 1.7 | 2.9 |
| 72.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.7 | 2.4 |
| 75° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.5 | 2.2 |
| 77.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.2 | 1.7 |
| 80° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.0 | 1.5 |
| 82.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.7 | 0.7 | 1.0 | 1.2 |
| 85° | 0.2 | 0.5 | 0.2 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.7 | 1.0 |
| 87.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.5 | 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):

| | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0° | 22.4 | 22.4 | 22.4 | 22.4 |
| 2.5° | 22.2 | 21.7 | 21.7 | 21.7 |
| 5° | 21.7 | 21.2 | 21.2 | 20.9 |
| 7.5° | 20.9 | 20.7 | 20.7 | 20.7 |
| 10° | 20.5 | 20.2 | 20.5 | 20.5 |
| 12.5° | 19.5 | 19.7 | 20.0 | 20.0 |
| 15° | 18.5 | 19.0 | 19.5 | 19.7 |
| 17.5° | 17.5 | 18.5 | 19.0 | 19.2 |
| 20° | 16.6 | 17.8 | 18.5 | 18.8 |
| 22.5° | 15.8 | 17.1 | 18.0 | 18.5 |
| 25° | 14.9 | 16.6 | 17.8 | 18.3 |
| 27.5° | 13.9 | 15.8 | 17.3 | 18.0 |
| 30° | 13.2 | 15.6 | 17.3 | 18.0 |
| 32.5° | 12.4 | 15.1 | 17.1 | 17.8 |
| 35° | 11.9 | 14.9 | 17.1 | 18.0 |
| 37.5° | 11.4 | 14.6 | 17.1 | 17.8 |
| 40° | 11.2 | 14.4 | 17.1 | 17.8 |
| 42.5° | 11.0 | 14.4 | 17.1 | 18.0 |
| 45° | 10.5 | 14.1 | 17.1 | 18.0 |
| 47.5° | 10.2 | 14.1 | 17.1 | 18.0 |
| 50° | 10.0 | 13.9 | 17.1 | 18.3 |
| 52.5° | 9.7 | 13.6 | 17.1 | 18.3 |
| 55° | 9.3 | 13.4 | 16.8 | 18.0 |
| 57.5° | 9.0 | 13.2 | 16.6 | 17.5 |
| 60° | 8.5 | 12.7 | 16.1 | 17.3 |
| 62.5° | 8.0 | 12.2 | 15.6 | 16.6 |
| 65° | 7.3 | 11.4 | 14.9 | 16.1 |
| 67.5° | 6.6 | 10.5 | 14.1 | 15.3 |
| 70° | 5.8 | 9.5 | 13.2 | 14.1 |
| 72.5° | 5.1 | 8.5 | 12.2 | 12.9 |
| 75° | 4.4 | 7.3 | 10.7 | 11.7 |
| 77.5° | 3.7 | 6.3 | 9.0 | 9.7 |
| 80° | 2.7 | 4.9 | 7.3 | 8.0 |
| 82.5° | 2.2 | 3.7 | 5.4 | 5.8 |
| 85° | 1.5 | 2.4 | 3.4 | 3.9 |
| 87.5° | 0.7 | 1.2 | 1.7 | 1.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)