

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: P1318989

Luminaire Tested: LDSQA3D05R509835DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318989
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: LDSQA3D05R509835DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

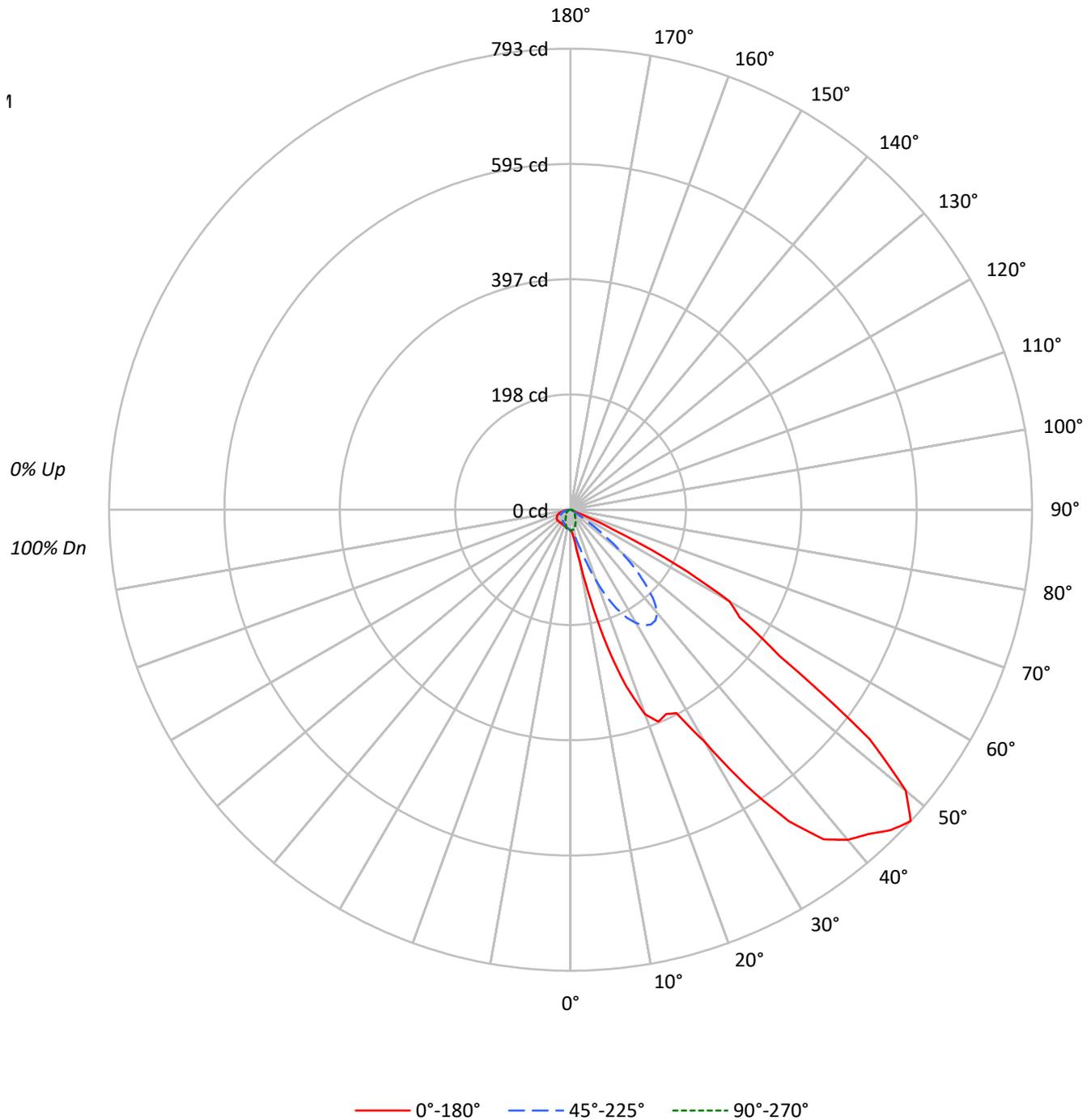
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 447.0 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.83 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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: P1318989

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|-------|------|------|-------|
| 0° | 6114 | 6114 | 6114 | 6114 | 6114 |
| 5° | 7278 | 6811 | 6068 | 5809 | 5740 |
| 10° | 15669 | 8447 | 5806 | 5596 | 5666 |
| 15° | 43362 | 13836 | 5224 | 5367 | 5581 |
| 20° | 68563 | 24266 | 4527 | 5168 | 5443 |
| 25° | 73730 | 35649 | 3896 | 4998 | 5511 |
| 30° | 91518 | 44765 | 3381 | 4912 | 5688 |
| 35° | 137353 | 50648 | 2922 | 4962 | 6013 |
| 40° | 166570 | 52091 | 2608 | 5126 | 6340 |
| 45° | 189757 | 44669 | 2533 | 5456 | 6966 |
| 50° | 201404 | 30839 | 2599 | 5894 | 7770 |
| 55° | 131574 | 12401 | 2552 | 6366 | 8587 |
| 60° | 108535 | 2136 | 2514 | 6923 | 9438 |
| 65° | 32723 | 1100 | 2364 | 7376 | 10392 |
| 70° | 1360 | 1158 | 2316 | 7604 | 11279 |
| 75° | 1264 | 1264 | 2329 | 7719 | 12310 |
| 80° | 1190 | 1190 | 2281 | 7637 | 12596 |
| 85° | 790 | 1581 | 2964 | 7707 | 12251 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 202051 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 3.7 | 0.8 |
| 10°-20° | 21.2 | 4.7 |
| 20°-30° | 54.4 | 12.2 |
| 30°-40° | 97.7 | 21.9 |
| 40°-50° | 130.6 | 29.2 |
| 50°-60° | 99.4 | 22.2 |
| 60°-70° | 30.2 | 6.8 |
| 70°-80° | 7.2 | 1.6 |
| 80°-90° | 2.6 | 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° | 79.3 | 17.7 |
| 0°-40° | 177.0 | 39.6 |
| 0°-60° | 407.0 | 91.1 |
| 0°-90° | 447.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 447.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 36 | 36 | 36 | 36 | 36 | |
| 5° | 42 | 39 | 35 | 34 | 33 | 5 |
| 15° | 243 | 78 | 29 | 30 | 31 | 72 |
| 25° | 388 | 188 | 20 | 26 | 29 | 185 |
| 35° | 653 | 241 | 14 | 24 | 29 | 401 |
| 45° | 779 | 183 | 10 | 22 | 29 | 596 |
| 55° | 438 | 41 | 8 | 21 | 29 | 436 |
| 65° | 80 | 3 | 6 | 18 | 26 | 111 |
| 75° | 2 | 2 | 4 | 12 | 18 | 2 |
| 85° | 0 | 1 | 2 | 4 | 6 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1318989

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 0° | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 |
| 2.5° | 37.8 | 37.8 | 37.8 | 37.8 | 37.8 | 37.8 | 37.5 | 37.5 | 37.5 | 36.7 | 35.9 |
| 5° | 42.1 | 42.5 | 42.1 | 42.1 | 41.3 | 41.3 | 40.5 | 40.5 | 39.4 | 37.1 | 35.1 |
| 7.5° | 55.2 | 54.8 | 54.4 | 52.9 | 51.7 | 49.0 | 47.9 | 45.9 | 42.5 | 37.1 | 34.4 |
| 10° | 89.6 | 87.3 | 85.7 | 82.2 | 74.9 | 70.3 | 64.1 | 57.9 | 48.3 | 37.1 | 33.2 |
| 12.5° | 155.6 | 155.2 | 150.6 | 139.0 | 128.6 | 114.3 | 99.2 | 84.2 | 59.5 | 36.3 | 31.7 |
| 15° | 243.2 | 239.8 | 233.2 | 219.7 | 201.2 | 178.8 | 151.7 | 125.1 | 77.6 | 35.1 | 29.3 |
| 17.5° | 318.1 | 313.9 | 308.9 | 295.4 | 274.1 | 245.9 | 213.5 | 176.8 | 102.3 | 33.6 | 27.0 |
| 20° | 374.1 | 371.4 | 367.2 | 356.4 | 336.3 | 310.8 | 274.5 | 230.1 | 132.4 | 31.7 | 24.7 |
| 22.5° | 394.6 | 394.2 | 395.0 | 391.1 | 381.1 | 361.0 | 326.2 | 279.9 | 162.2 | 29.3 | 22.4 |
| 25° | 388.0 | 387.6 | 392.7 | 397.7 | 400.0 | 391.9 | 365.2 | 320.1 | 187.6 | 27.4 | 20.5 |
| 27.5° | 394.2 | 393.0 | 390.7 | 391.5 | 398.1 | 402.7 | 390.3 | 351.0 | 209.6 | 24.7 | 18.5 |
| 30° | 460.2 | 453.7 | 443.2 | 425.5 | 412.3 | 411.2 | 405.8 | 375.3 | 225.1 | 22.0 | 17.0 |
| 32.5° | 563.3 | 555.2 | 536.3 | 503.5 | 472.2 | 448.3 | 431.3 | 395.7 | 235.9 | 19.3 | 15.1 |
| 35° | 653.3 | 647.5 | 625.5 | 593.0 | 548.2 | 503.5 | 472.6 | 425.9 | 240.9 | 17.0 | 13.9 |
| 37.5° | 714.3 | 712.0 | 690.3 | 655.6 | 610.0 | 557.1 | 516.2 | 456.7 | 239.8 | 14.3 | 12.7 |
| 40° | 740.9 | 734.0 | 715.8 | 686.5 | 640.5 | 593.0 | 549.8 | 476.4 | 231.7 | 11.6 | 11.6 |
| 42.5° | 756.7 | 749.0 | 729.3 | 701.5 | 656.4 | 605.8 | 553.7 | 467.9 | 212.4 | 9.3 | 11.2 |
| 45° | 779.1 | 771.0 | 745.2 | 715.4 | 669.9 | 611.2 | 538.6 | 437.8 | 183.4 | 6.9 | 10.4 |
| 47.5° | 792.6 | 787.2 | 767.9 | 738.2 | 683.0 | 603.5 | 503.8 | 409.6 | 151.3 | 5.4 | 10.0 |
| 50° | 751.7 | 746.3 | 732.0 | 711.6 | 674.5 | 577.6 | 473.3 | 364.1 | 115.1 | 4.2 | 9.7 |
| 52.5° | 647.1 | 651.7 | 654.4 | 660.2 | 633.2 | 519.7 | 427.8 | 327.8 | 77.6 | 3.5 | 8.9 |
| 55° | 438.2 | 445.2 | 452.9 | 476.1 | 507.7 | 462.5 | 379.9 | 283.4 | 41.3 | 3.5 | 8.5 |
| 57.5° | 344.4 | 342.1 | 339.8 | 338.2 | 362.9 | 381.5 | 334.0 | 226.6 | 17.8 | 3.5 | 7.7 |
| 60° | 315.1 | 308.1 | 303.5 | 304.6 | 317.0 | 309.6 | 264.5 | 147.9 | 6.2 | 3.5 | 7.3 |
| 62.5° | 206.6 | 212.0 | 222.4 | 240.1 | 231.7 | 198.8 | 153.7 | 58.7 | 3.1 | 3.5 | 6.6 |
| 65° | 80.3 | 77.6 | 80.3 | 85.3 | 73.7 | 54.8 | 34.4 | 10.4 | 2.7 | 3.1 | 5.8 |
| 67.5° | 10.8 | 9.7 | 7.3 | 4.6 | 4.2 | 3.9 | 3.1 | 2.7 | 2.7 | 3.1 | 5.4 |
| 70° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.3 | 2.3 | 2.7 | 4.6 |
| 72.5° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.7 | 3.9 |
| 75° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 2.3 | 3.5 |
| 77.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.9 | 2.7 |
| 80° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.5 | 2.3 |
| 82.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.2 | 1.2 | 1.5 | 1.9 |
| 85° | 0.4 | 0.8 | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.2 | 1.5 |
| 87.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.8 | 1.2 | 1.2 |
| 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):

| | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0° | 35.5 | 35.5 | 35.5 | 35.5 |
| 2.5° | 35.1 | 34.4 | 34.4 | 34.4 |
| 5° | 34.4 | 33.6 | 33.6 | 33.2 |
| 7.5° | 33.2 | 32.8 | 32.8 | 32.8 |
| 10° | 32.4 | 32.0 | 32.4 | 32.4 |
| 12.5° | 30.9 | 31.3 | 31.7 | 31.7 |
| 15° | 29.3 | 30.1 | 30.9 | 31.3 |
| 17.5° | 27.8 | 29.3 | 30.1 | 30.5 |
| 20° | 26.3 | 28.2 | 29.3 | 29.7 |
| 22.5° | 25.1 | 27.0 | 28.6 | 29.3 |
| 25° | 23.6 | 26.3 | 28.2 | 29.0 |
| 27.5° | 22.0 | 25.1 | 27.4 | 28.6 |
| 30° | 20.8 | 24.7 | 27.4 | 28.6 |
| 32.5° | 19.7 | 23.9 | 27.0 | 28.2 |
| 35° | 18.9 | 23.6 | 27.0 | 28.6 |
| 37.5° | 18.1 | 23.2 | 27.0 | 28.2 |
| 40° | 17.8 | 22.8 | 27.0 | 28.2 |
| 42.5° | 17.4 | 22.8 | 27.0 | 28.6 |
| 45° | 16.6 | 22.4 | 27.0 | 28.6 |
| 47.5° | 16.2 | 22.4 | 27.0 | 28.6 |
| 50° | 15.8 | 22.0 | 27.0 | 29.0 |
| 52.5° | 15.4 | 21.6 | 27.0 | 29.0 |
| 55° | 14.7 | 21.2 | 26.6 | 28.6 |
| 57.5° | 14.3 | 20.8 | 26.3 | 27.8 |
| 60° | 13.5 | 20.1 | 25.5 | 27.4 |
| 62.5° | 12.7 | 19.3 | 24.7 | 26.3 |
| 65° | 11.6 | 18.1 | 23.6 | 25.5 |
| 67.5° | 10.4 | 16.6 | 22.4 | 24.3 |
| 70° | 9.3 | 15.1 | 20.8 | 22.4 |
| 72.5° | 8.1 | 13.5 | 19.3 | 20.5 |
| 75° | 6.9 | 11.6 | 17.0 | 18.5 |
| 77.5° | 5.8 | 10.0 | 14.3 | 15.4 |
| 80° | 4.2 | 7.7 | 11.6 | 12.7 |
| 82.5° | 3.5 | 5.8 | 8.5 | 9.3 |
| 85° | 2.3 | 3.9 | 5.4 | 6.2 |
| 87.5° | 1.2 | 1.9 | 2.7 | 3.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)