

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: P1320186

Luminaire Tested: LDSQA3D13R709840DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1320186  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R709840DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

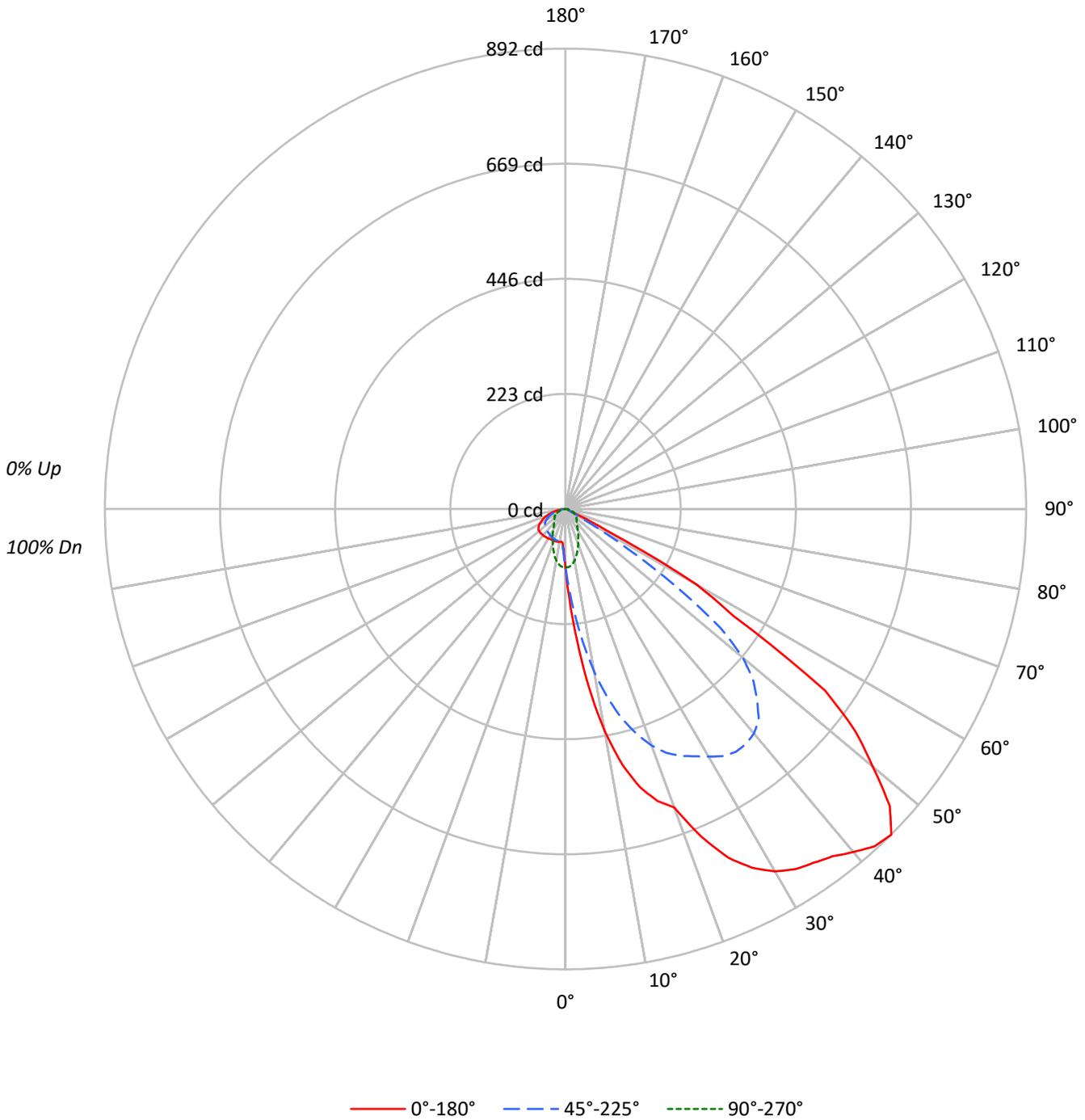
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 771.0 lumens  
Efficiency: N/A  
Efficacy: 53.2 lumens/watt  
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03  
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 (A<sub>in</sub>): 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  |     |     |     |     |
| 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   | 110 | 106 | 103 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 89  | 89  | 89  | 87  |
| 2   | 101 | 94  | 88  | 83  | 99  | 92  | 87  | 82  | 89  | 84  | 80  | 86  | 82  | 78  | 83  | 79  | 77  | 77  | 77  | 77  | 75  |
| 3   | 93  | 83  | 76  | 70  | 90  | 82  | 75  | 69  | 79  | 73  | 68  | 76  | 71  | 67  | 74  | 69  | 66  | 66  | 66  | 66  | 64  |
| 4   | 85  | 74  | 66  | 59  | 83  | 72  | 65  | 59  | 70  | 63  | 58  | 68  | 62  | 57  | 66  | 61  | 57  | 57  | 57  | 57  | 54  |
| 5   | 78  | 66  | 57  | 51  | 76  | 65  | 57  | 51  | 63  | 55  | 50  | 61  | 54  | 49  | 59  | 53  | 49  | 49  | 49  | 49  | 47  |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 43  | 43  | 43  | 41  |
| 7   | 66  | 53  | 44  | 38  | 65  | 52  | 44  | 38  | 51  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 37  | 37  | 37  | 37  | 35  |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 33  | 45  | 38  | 33  | 44  | 38  | 33  | 33  | 33  | 33  | 31  |
| 9   | 57  | 44  | 35  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 29  | 29  | 29  | 29  | 28  |
| 10  | 53  | 40  | 32  | 27  | 52  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 26  | 37  | 31  | 26  | 26  | 26  | 26  | 25  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 19341  | 19341  | 19341 | 19341 | 19341 |
| 5°  | 44015  | 35233  | 19155 | 12102 | 11306 |
| 10° | 76282  | 55961  | 17750 | 11035 | 11297 |
| 15° | 99579  | 74743  | 15494 | 11251 | 11661 |
| 20° | 112788 | 89383  | 13251 | 11418 | 12133 |
| 25° | 141646 | 100277 | 11117 | 11554 | 12428 |
| 30° | 161240 | 110132 | 9486  | 11773 | 13165 |
| 35° | 175954 | 120807 | 8242  | 11963 | 13918 |
| 40° | 195077 | 127631 | 7599  | 12455 | 15041 |
| 45° | 217328 | 127771 | 7502  | 13104 | 16294 |
| 50° | 208155 | 120167 | 7422  | 13798 | 17737 |
| 55° | 184300 | 77828  | 7627  | 14563 | 19157 |
| 60° | 100957 | 16706  | 7681  | 14846 | 19874 |
| 65° | 7213   | 4075   | 7539  | 14752 | 20050 |
| 70° | 3474   | 3877   | 6949  | 13948 | 19386 |
| 75° | 3061   | 4126   | 6654  | 13308 | 17900 |
| 80° | 3075   | 3769   | 6149  | 12199 | 16761 |
| 85° | 2964   | 4545   | 6126  | 10671 | 15215 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 217328 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 14.6   | 1.9       |
| 10°-20°   | 62.7   | 8.1       |
| 20°-30°   | 120.2  | 15.6      |
| 30°-40°   | 170.0  | 22.0      |
| 40°-50°   | 192.3  | 24.9      |
| 50°-60°   | 152.3  | 19.8      |
| 60°-70°   | 41.1   | 5.3       |
| 70°-80°   | 13.6   | 1.8       |
| 80°-90°   | 4.2    | 0.5       |
| 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°    | 197.5  | 25.6      |
| 0°-40°    | 367.5  | 47.7      |
| 0°-60°    | 712.1  | 92.4      |
| 0°-90°    | 771.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 771.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 112 | 112 | 112 | 112  | 112  |      |
| 5°  | 255 | 204 | 111 | 70   | 65   | 30   |
| 15° | 558 | 419 | 87  | 63   | 65   | 157  |
| 25° | 745 | 528 | 58  | 61   | 65   | 342  |
| 35° | 837 | 575 | 39  | 57   | 66   | 527  |
| 45° | 892 | 525 | 31  | 54   | 67   | 668  |
| 55° | 614 | 259 | 25  | 48   | 64   | 498  |
| 65° | 18  | 10  | 18  | 36   | 49   | 64   |
| 75° | 5   | 6   | 10  | 20   | 27   | 5    |
| 85° | 2   | 2   | 3   | 5    | 8    | 2    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 45°   | 67.5° | 90°   | 112.5° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°    | 112.3 | 112.3 | 112.3 | 112.3 | 112.3 | 112.3 | 112.3 | 112.3 | 112.3 | 112.3 | 112.3  |
| 2.5°  | 174.6 | 174.6 | 173.8 | 170.8 | 169.2 | 165.4 | 162.3 | 153.8 | 133.1 | 113.1 | 96.9   |
| 5°    | 254.6 | 258.5 | 253.1 | 252.3 | 247.7 | 240.8 | 236.2 | 203.8 | 153.8 | 110.8 | 83.1   |
| 7.5°  | 349.2 | 350.8 | 349.2 | 341.5 | 334.6 | 323.1 | 312.3 | 261.5 | 174.6 | 106.9 | 73.1   |
| 10°   | 436.2 | 433.8 | 429.2 | 423.8 | 413.8 | 401.5 | 383.1 | 320.0 | 194.6 | 101.5 | 66.9   |
| 12.5° | 506.9 | 506.2 | 500.8 | 495.4 | 483.1 | 466.9 | 448.5 | 373.1 | 211.5 | 94.6  | 63.8   |
| 15°   | 558.5 | 558.5 | 553.1 | 546.9 | 535.4 | 522.3 | 501.5 | 419.2 | 225.4 | 86.9  | 60.8   |
| 17.5° | 593.1 | 591.5 | 587.7 | 583.1 | 573.8 | 560.8 | 544.6 | 456.2 | 234.6 | 79.2  | 60.0   |
| 20°   | 615.4 | 614.6 | 611.5 | 604.6 | 596.9 | 586.9 | 572.3 | 487.7 | 238.5 | 72.3  | 59.2   |
| 22.5° | 686.9 | 680.8 | 669.2 | 654.6 | 636.2 | 612.3 | 592.3 | 511.5 | 236.9 | 64.6  | 57.7   |
| 25°   | 745.4 | 743.1 | 730.8 | 713.1 | 688.5 | 657.7 | 624.6 | 527.7 | 229.2 | 58.5  | 56.2   |
| 27.5° | 783.8 | 780.0 | 768.5 | 749.2 | 723.1 | 693.1 | 662.3 | 540.0 | 218.5 | 53.1  | 53.8   |
| 30°   | 810.8 | 808.5 | 796.9 | 775.4 | 748.5 | 715.4 | 683.8 | 553.8 | 203.8 | 47.7  | 51.5   |
| 32.5° | 827.7 | 825.4 | 813.8 | 794.6 | 768.5 | 733.8 | 697.7 | 567.7 | 186.2 | 43.1  | 49.2   |
| 35°   | 836.9 | 834.6 | 821.5 | 804.6 | 780.0 | 746.2 | 707.7 | 574.6 | 164.6 | 39.2  | 46.9   |
| 37.5° | 848.5 | 843.8 | 826.2 | 805.4 | 780.8 | 749.2 | 710.8 | 573.8 | 143.1 | 36.2  | 45.4   |
| 40°   | 867.7 | 855.4 | 830.0 | 802.3 | 776.9 | 745.4 | 708.5 | 567.7 | 119.2 | 33.8  | 43.8   |
| 42.5° | 886.2 | 868.5 | 830.8 | 797.7 | 769.2 | 738.5 | 700.0 | 553.8 | 93.1  | 32.3  | 43.1   |
| 45°   | 892.3 | 866.2 | 820.0 | 786.9 | 760.0 | 728.5 | 688.5 | 524.6 | 63.1  | 30.8  | 41.5   |
| 47.5° | 851.5 | 832.3 | 793.8 | 769.2 | 743.8 | 713.1 | 671.5 | 493.8 | 36.2  | 29.2  | 40.0   |
| 50°   | 776.9 | 764.6 | 743.1 | 727.7 | 713.8 | 692.3 | 651.5 | 448.5 | 21.5  | 27.7  | 38.5   |
| 52.5° | 707.7 | 703.8 | 688.5 | 676.2 | 668.5 | 658.5 | 621.5 | 378.5 | 17.7  | 26.9  | 36.9   |
| 55°   | 613.8 | 601.5 | 597.7 | 593.1 | 609.2 | 608.5 | 558.5 | 259.2 | 16.9  | 25.4  | 35.4   |
| 57.5° | 385.4 | 390.8 | 410.8 | 447.7 | 491.5 | 516.9 | 515.4 | 138.5 | 16.2  | 23.8  | 33.1   |
| 60°   | 293.1 | 292.3 | 298.5 | 313.8 | 346.2 | 382.3 | 416.2 | 48.5  | 15.4  | 22.3  | 31.5   |
| 62.5° | 87.7  | 90.0  | 108.5 | 159.2 | 190.8 | 235.4 | 214.6 | 11.5  | 14.6  | 20.0  | 28.5   |
| 65°   | 17.7  | 18.5  | 18.5  | 20.8  | 25.4  | 38.5  | 46.9  | 10.0  | 13.8  | 18.5  | 26.2   |
| 67.5° | 7.7   | 7.7   | 7.7   | 8.5   | 8.5   | 10.0  | 8.5   | 9.2   | 12.3  | 16.2  | 23.1   |
| 70°   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 7.7   | 7.7   | 10.8  | 13.8  | 20.0   |
| 72.5° | 5.4   | 5.4   | 5.4   | 6.2   | 6.2   | 6.2   | 6.2   | 6.9   | 9.2   | 11.5  | 16.9   |
| 75°   | 4.6   | 4.6   | 4.6   | 4.6   | 5.4   | 5.4   | 5.4   | 6.2   | 7.7   | 10.0  | 13.8   |
| 77.5° | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 4.6   | 4.6   | 4.6   | 6.2   | 7.7   | 11.5   |
| 80°   | 3.1   | 3.1   | 3.1   | 3.1   | 3.1   | 3.1   | 3.1   | 3.8   | 4.6   | 6.2   | 8.5    |
| 82.5° | 2.3   | 2.3   | 2.3   | 2.3   | 2.3   | 2.3   | 2.3   | 3.1   | 3.8   | 4.6   | 6.2    |
| 85°   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 2.3   | 2.3   | 3.1   | 3.8    |
| 87.5° | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 1.5   | 1.5   | 1.5   | 2.3    |
| 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):**

|       | 135°  | 157.5° | 180°  |
|-------|-------|--------|-------|
| 0°    | 112.3 | 112.3  | 112.3 |
| 2.5°  | 85.4  | 80.8   | 78.5  |
| 5°    | 70.0  | 66.2   | 65.4  |
| 7.5°  | 64.6  | 63.8   | 63.8  |
| 10°   | 63.1  | 63.8   | 64.6  |
| 12.5° | 63.1  | 64.6   | 65.4  |
| 15°   | 63.1  | 64.6   | 65.4  |
| 17.5° | 63.1  | 64.6   | 65.4  |
| 20°   | 62.3  | 64.6   | 66.2  |
| 22.5° | 61.5  | 64.6   | 65.4  |
| 25°   | 60.8  | 64.6   | 65.4  |
| 27.5° | 60.0  | 63.8   | 65.4  |
| 30°   | 59.2  | 63.8   | 66.2  |
| 32.5° | 57.7  | 63.8   | 66.2  |
| 35°   | 56.9  | 63.8   | 66.2  |
| 37.5° | 56.2  | 63.8   | 66.9  |
| 40°   | 55.4  | 63.8   | 66.9  |
| 42.5° | 54.6  | 63.8   | 66.9  |
| 45°   | 53.8  | 63.1   | 66.9  |
| 47.5° | 52.3  | 63.1   | 66.9  |
| 50°   | 51.5  | 62.3   | 66.2  |
| 52.5° | 50.0  | 61.5   | 66.2  |
| 55°   | 48.5  | 60.0   | 63.8  |
| 57.5° | 46.2  | 57.7   | 60.8  |
| 60°   | 43.1  | 54.6   | 57.7  |
| 62.5° | 39.2  | 50.8   | 53.1  |
| 65°   | 36.2  | 46.2   | 49.2  |
| 67.5° | 31.5  | 40.8   | 43.8  |
| 70°   | 27.7  | 35.4   | 38.5  |
| 72.5° | 23.8  | 30.0   | 33.1  |
| 75°   | 20.0  | 24.6   | 26.9  |
| 77.5° | 15.4  | 20.0   | 21.5  |
| 80°   | 12.3  | 15.4   | 16.9  |
| 82.5° | 8.5   | 10.8   | 11.5  |
| 85°   | 5.4   | 6.9    | 7.7   |
| 87.5° | 2.3   | 3.1    | 3.1   |
| 90°   | 0.0   | 0.0    | 0.0   |

(END OF REPORT)