

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: P1316149

Luminaire Tested: LDSQA3D02R509740DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316149  
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: LDSQA3D02R509740DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

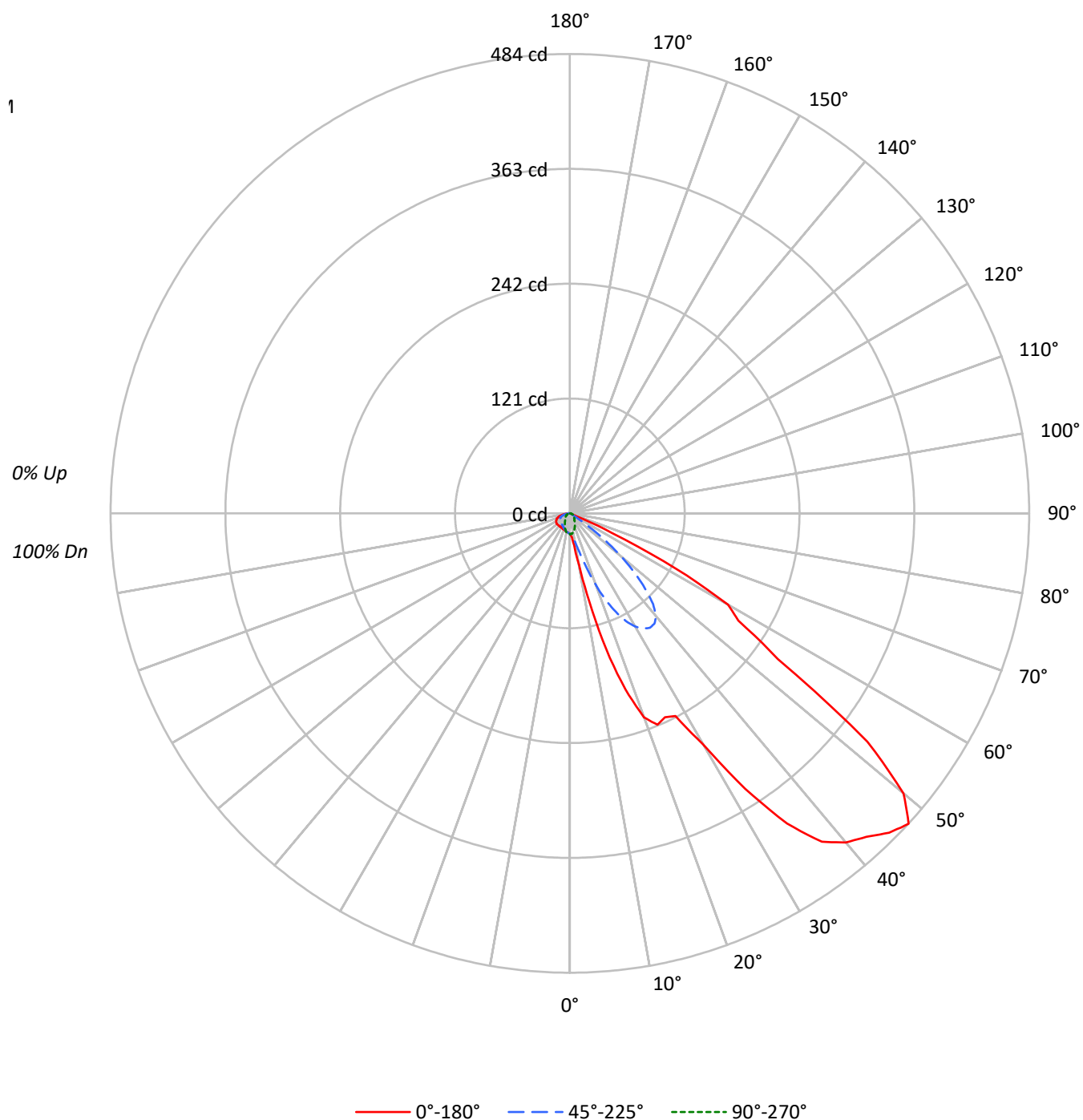
Lumens per Lamp: N/A  
Luminaire Lumens: 273.0 lumens  
Efficiency: N/A  
Efficacy: 75.8 lumens/watt  
Spacing Criteria (0/90/45): 3.58 / 0.83 / 1.91  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

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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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1   | 110 | 106 | 102 | 98  | 107 | 103 | 100 | 97  | 99  | 96  | 94  | 95  | 93  | 91  | 92  | 90  | 88  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 66  | 77  | 70  | 65  | 74  | 69  | 64  | 71  | 67  | 63  |
| 4   | 83  | 71  | 63  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  |
| 5   | 76  | 63  | 54  | 47  | 74  | 62  | 53  | 47  | 60  | 52  | 46  | 58  | 51  | 46  | 56  | 50  | 45  |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 39  | 51  | 44  | 39  | 50  | 43  | 39  |
| 7   | 63  | 50  | 41  | 34  | 62  | 49  | 40  | 34  | 47  | 39  | 34  | 46  | 39  | 34  | 44  | 38  | 33  |
| 8   | 58  | 44  | 36  | 30  | 57  | 44  | 35  | 29  | 42  | 35  | 29  | 41  | 34  | 29  | 40  | 34  | 29  |
| 9   | 54  | 40  | 31  | 26  | 53  | 39  | 31  | 26  | 38  | 31  | 25  | 37  | 30  | 25  | 36  | 30  | 25  |
| 10  | 50  | 36  | 28  | 23  | 49  | 36  | 28  | 22  | 35  | 27  | 22  | 34  | 27  | 22  | 33  | 27  | 22  |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 3737   | 3737  | 3737 | 3737 | 3737 |
| 5°  | 4443   | 4166  | 3717 | 3544 | 3509 |
| 10° | 9566   | 5159  | 3550 | 3428 | 3463 |
| 15° | 26495  | 8451  | 3192 | 3281 | 3405 |
| 20° | 41878  | 14827 | 2767 | 3152 | 3336 |
| 25° | 45036  | 21777 | 2375 | 3040 | 3363 |
| 30° | 55901  | 27344 | 2068 | 3003 | 3460 |
| 35° | 83888  | 30927 | 1787 | 3028 | 3658 |
| 40° | 101731 | 31812 | 1596 | 3125 | 3867 |
| 45° | 115886 | 27279 | 1559 | 3337 | 4238 |
| 50° | 123007 | 18836 | 1581 | 3590 | 4742 |
| 55° | 80350  | 7567  | 1561 | 3903 | 5225 |
| 60° | 66271  | 1309  | 1550 | 4237 | 5752 |
| 65° | 19968  | 693   | 1426 | 4523 | 6357 |
| 70° | 856    | 705   | 1410 | 4633 | 6899 |
| 75° | 799    | 799   | 1397 | 4724 | 7519 |
| 80° | 694    | 694   | 1389 | 4661 | 7736 |
| 85° | 395    | 988   | 1778 | 4742 | 7509 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 123408 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.3    | 0.8       |
| 10°-20°   | 12.9   | 4.7       |
| 20°-30°   | 33.2   | 12.2      |
| 30°-40°   | 59.7   | 21.9      |
| 40°-50°   | 79.7   | 29.2      |
| 50°-60°   | 60.7   | 22.2      |
| 60°-70°   | 18.4   | 6.8       |
| 70°-80°   | 4.4    | 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°    | 48.4   | 17.7      |
| 0°-40°    | 108.1  | 39.6      |
| 0°-60°    | 248.6  | 91.0      |
| 0°-90°    | 273.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 273.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 22  | 22  | 22  | 22   | 22   |      |
| 5°  | 26  | 24  | 22  | 20   | 20   | 3    |
| 15° | 149 | 47  | 18  | 18   | 19   | 44   |
| 25° | 237 | 115 | 12  | 16   | 18   | 113  |
| 35° | 399 | 147 | 8   | 14   | 17   | 245  |
| 45° | 476 | 112 | 6   | 14   | 17   | 364  |
| 55° | 268 | 25  | 5   | 13   | 17   | 266  |
| 65° | 49  | 2   | 4   | 11   | 16   | 68   |
| 75° | 1   | 1   | 2   | 7    | 11   | 1    |
| 85° | 0   | 0   | 1   | 2    | 4    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 45°   | 67.5° | 90°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 0°    | 21.7  | 21.7  | 21.7  | 21.7  | 21.7  | 21.7  | 21.7  | 21.7  | 21.7  | 21.7  | 21.7 |
| 2.5°  | 23.1  | 23.1  | 23.1  | 23.1  | 23.1  | 23.1  | 22.9  | 22.9  | 22.9  | 22.4  | 21.9 |
| 5°    | 25.7  | 25.9  | 25.7  | 25.7  | 25.2  | 25.2  | 24.8  | 24.8  | 24.1  | 22.6  | 21.5 |
| 7.5°  | 33.7  | 33.5  | 33.2  | 32.3  | 31.6  | 29.9  | 29.2  | 28.1  | 25.9  | 22.6  | 21.0 |
| 10°   | 54.7  | 53.3  | 52.3  | 50.2  | 45.7  | 42.9  | 39.1  | 35.4  | 29.5  | 22.6  | 20.3 |
| 12.5° | 95.0  | 94.8  | 92.0  | 84.9  | 78.5  | 69.8  | 60.6  | 51.4  | 36.3  | 22.2  | 19.3 |
| 15°   | 148.6 | 146.4 | 142.4 | 134.2 | 122.9 | 109.2 | 92.7  | 76.4  | 47.4  | 21.5  | 17.9 |
| 17.5° | 194.3 | 191.7 | 188.6 | 180.4 | 167.4 | 150.2 | 130.4 | 108.0 | 62.5  | 20.5  | 16.5 |
| 20°   | 228.5 | 226.8 | 224.2 | 217.6 | 205.4 | 189.8 | 167.7 | 140.5 | 80.9  | 19.3  | 15.1 |
| 22.5° | 241.0 | 240.8 | 241.2 | 238.9 | 232.7 | 220.5 | 199.3 | 171.0 | 99.0  | 17.9  | 13.7 |
| 25°   | 237.0 | 236.7 | 239.8 | 242.9 | 244.3 | 239.3 | 223.1 | 195.5 | 114.6 | 16.7  | 12.5 |
| 27.5° | 240.8 | 240.0 | 238.6 | 239.1 | 243.1 | 245.9 | 238.4 | 214.3 | 128.0 | 15.1  | 11.3 |
| 30°   | 281.1 | 277.1 | 270.7 | 259.9 | 251.8 | 251.1 | 247.8 | 229.2 | 137.5 | 13.4  | 10.4 |
| 32.5° | 344.0 | 339.1 | 327.5 | 307.5 | 288.4 | 273.8 | 263.4 | 241.7 | 144.1 | 11.8  | 9.2  |
| 35°   | 399.0 | 395.4 | 382.0 | 362.2 | 334.8 | 307.5 | 288.6 | 260.1 | 147.1 | 10.4  | 8.5  |
| 37.5° | 436.2 | 434.8 | 421.6 | 400.4 | 372.6 | 340.3 | 315.3 | 279.0 | 146.4 | 8.7   | 7.8  |
| 40°   | 452.5 | 448.3 | 437.2 | 419.3 | 391.2 | 362.2 | 335.8 | 291.0 | 141.5 | 7.1   | 7.1  |
| 42.5° | 462.2 | 457.5 | 445.4 | 428.5 | 400.9 | 370.0 | 338.1 | 285.8 | 129.7 | 5.7   | 6.8  |
| 45°   | 475.8 | 470.9 | 455.1 | 436.9 | 409.1 | 373.3 | 328.9 | 267.4 | 112.0 | 4.2   | 6.4  |
| 47.5° | 484.1 | 480.8 | 469.0 | 450.9 | 417.1 | 368.6 | 307.7 | 250.2 | 92.4  | 3.3   | 6.1  |
| 50°   | 459.1 | 455.8 | 447.1 | 434.6 | 411.9 | 352.8 | 289.1 | 222.4 | 70.3  | 2.6   | 5.9  |
| 52.5° | 395.2 | 398.0 | 399.7 | 403.2 | 386.7 | 317.4 | 261.3 | 200.2 | 47.4  | 2.1   | 5.4  |
| 55°   | 267.6 | 271.9 | 276.6 | 290.7 | 310.1 | 282.5 | 232.0 | 173.1 | 25.2  | 2.1   | 5.2  |
| 57.5° | 210.3 | 208.9 | 207.5 | 206.6 | 221.7 | 233.0 | 204.0 | 138.4 | 10.8  | 2.1   | 4.7  |
| 60°   | 192.4 | 188.2 | 185.3 | 186.0 | 193.6 | 189.1 | 161.5 | 90.3  | 3.8   | 2.1   | 4.5  |
| 62.5° | 126.2 | 129.5 | 135.8 | 146.7 | 141.5 | 121.4 | 93.8  | 35.8  | 1.9   | 2.1   | 4.0  |
| 65°   | 49.0  | 47.4  | 49.0  | 52.1  | 45.0  | 33.5  | 21.0  | 6.4   | 1.7   | 1.9   | 3.5  |
| 67.5° | 6.6   | 5.9   | 4.5   | 2.8   | 2.6   | 2.4   | 1.9   | 1.7   | 1.7   | 1.9   | 3.3  |
| 70°   | 1.7   | 1.7   | 1.7   | 1.7   | 1.7   | 1.7   | 1.7   | 1.4   | 1.4   | 1.7   | 2.8  |
| 72.5° | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.7   | 2.4  |
| 75°   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.4   | 2.1  |
| 77.5° | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 1.2   | 1.7  |
| 80°   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.9   | 1.4  |
| 82.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.7   | 0.7   | 0.9   | 1.2  |
| 85°   | 0.2   | 0.5   | 0.2   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.7   | 0.9  |
| 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°    | 21.7   | 21.7 | 21.7   | 21.7 |
| 2.5°  | 21.5   | 21.0 | 21.0   | 21.0 |
| 5°    | 21.0   | 20.5 | 20.5   | 20.3 |
| 7.5°  | 20.3   | 20.0 | 20.0   | 20.0 |
| 10°   | 19.8   | 19.6 | 19.8   | 19.8 |
| 12.5° | 18.9   | 19.1 | 19.3   | 19.3 |
| 15°   | 17.9   | 18.4 | 18.9   | 19.1 |
| 17.5° | 17.0   | 17.9 | 18.4   | 18.6 |
| 20°   | 16.0   | 17.2 | 17.9   | 18.2 |
| 22.5° | 15.3   | 16.5 | 17.4   | 17.9 |
| 25°   | 14.4   | 16.0 | 17.2   | 17.7 |
| 27.5° | 13.4   | 15.3 | 16.7   | 17.4 |
| 30°   | 12.7   | 15.1 | 16.7   | 17.4 |
| 32.5° | 12.0   | 14.6 | 16.5   | 17.2 |
| 35°   | 11.6   | 14.4 | 16.5   | 17.4 |
| 37.5° | 11.1   | 14.1 | 16.5   | 17.2 |
| 40°   | 10.8   | 13.9 | 16.5   | 17.2 |
| 42.5° | 10.6   | 13.9 | 16.5   | 17.4 |
| 45°   | 10.1   | 13.7 | 16.5   | 17.4 |
| 47.5° | 9.9    | 13.7 | 16.5   | 17.4 |
| 50°   | 9.7    | 13.4 | 16.5   | 17.7 |
| 52.5° | 9.4    | 13.2 | 16.5   | 17.7 |
| 55°   | 9.0    | 13.0 | 16.3   | 17.4 |
| 57.5° | 8.7    | 12.7 | 16.0   | 17.0 |
| 60°   | 8.3    | 12.3 | 15.6   | 16.7 |
| 62.5° | 7.8    | 11.8 | 15.1   | 16.0 |
| 65°   | 7.1    | 11.1 | 14.4   | 15.6 |
| 67.5° | 6.4    | 10.1 | 13.7   | 14.9 |
| 70°   | 5.7    | 9.2  | 12.7   | 13.7 |
| 72.5° | 5.0    | 8.3  | 11.8   | 12.5 |
| 75°   | 4.2    | 7.1  | 10.4   | 11.3 |
| 77.5° | 3.5    | 6.1  | 8.7    | 9.4  |
| 80°   | 2.6    | 4.7  | 7.1    | 7.8  |
| 82.5° | 2.1    | 3.5  | 5.2    | 5.7  |
| 85°   | 1.4    | 2.4  | 3.3    | 3.8  |
| 87.5° | 0.7    | 1.2  | 1.7    | 1.9  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)