

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: IRiS

Report Number: P1336250

Luminaire Tested: P3A02R45B2750DE010 E3A451MW\_5000K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1336250  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A02R45B2750DE010 E3A451MW\_5000K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R45 optic, 5000K CCT AND, 80CRI , E3A451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

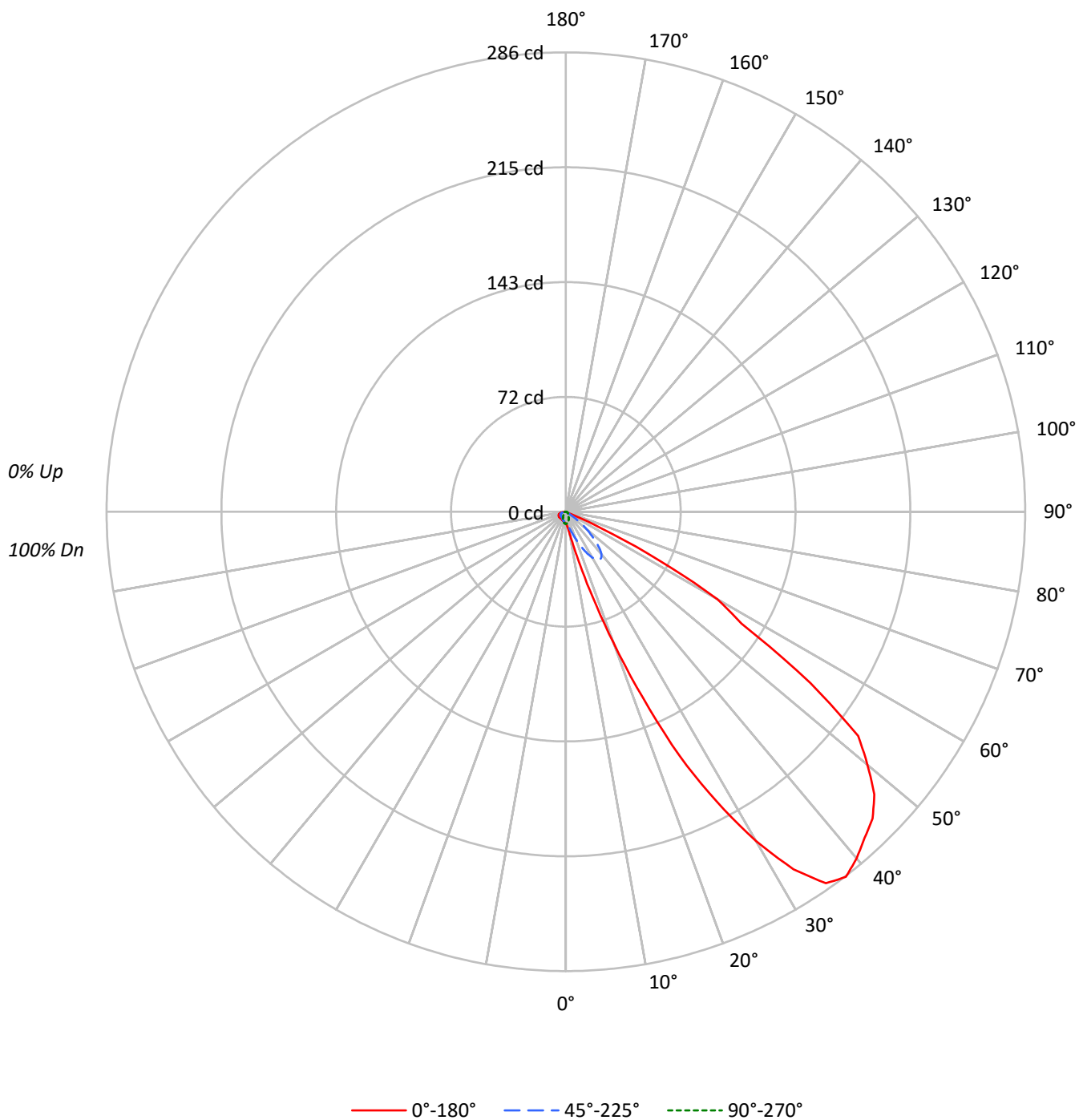
Lumens per Lamp: N/A  
Luminaire Lumens: 128.0 lumens  
Efficiency: N/A  
Efficacy: 44.1 lumens/watt  
Spacing Criteria (0/90/45): 3.81 / 0.83 / 1.83  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 2.9  
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  |     |    |    | 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 | 99  | 107 | 104 | 100 | 97  | 99  | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 88  | 86  |    |    |    |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 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  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  | 51  |    |    |    |
| 5   | 76  | 63  | 53  | 47  | 73  | 61  | 53  | 46  | 59  | 52  | 46  | 57  | 51  | 45  | 55  | 50  | 45  | 43  |    |    |    |
| 6   | 69  | 55  | 46  | 40  | 67  | 54  | 46  | 39  | 52  | 45  | 39  | 51  | 44  | 39  | 49  | 43  | 38  | 36  |    |    |    |
| 7   | 63  | 49  | 40  | 34  | 61  | 48  | 40  | 33  | 47  | 39  | 33  | 45  | 38  | 33  | 44  | 38  | 33  | 31  |    |    |    |
| 8   | 58  | 44  | 35  | 29  | 56  | 43  | 35  | 29  | 42  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  | 26  |    |    |    |
| 9   | 53  | 39  | 31  | 25  | 52  | 39  | 30  | 25  | 38  | 30  | 25  | 36  | 29  | 25  | 35  | 29  | 24  | 22  |    |    |    |
| 10  | 49  | 36  | 27  | 22  | 48  | 35  | 27  | 22  | 34  | 27  | 21  | 33  | 26  | 21  | 32  | 26  | 21  | 19  |    |    |    |

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

|     | 0°    | 45°  | 90°  | 135° | 180° |
|-----|-------|------|------|------|------|
| 0°  | 1623  | 1623 | 1623 | 1623 | 1623 |
| 5°  | 1937  | 1783 | 1607 | 1497 | 1497 |
| 10° | 3095  | 2093 | 1514 | 1403 | 1403 |
| 15° | 7673  | 2815 | 1362 | 1317 | 1362 |
| 20° | 20232 | 4200 | 1190 | 1260 | 1330 |
| 25° | 40648 | 6218 | 1016 | 1186 | 1307 |
| 30° | 59908 | 8330 | 836  | 1139 | 1342 |
| 35° | 75570 | 9771 | 696  | 1124 | 1392 |
| 40° | 80608 | 9876 | 630  | 1174 | 1489 |
| 45° | 83761 | 8218 | 589  | 1271 | 1613 |
| 50° | 83648 | 5731 | 580  | 1365 | 1808 |
| 55° | 71070 | 2561 | 612  | 1529 | 1988 |
| 60° | 47759 | 526  | 614  | 1710 | 2281 |
| 65° | 12660 | 208  | 623  | 1868 | 2594 |
| 70° | 321   | 256  | 641  | 2052 | 2885 |
| 75° | 254   | 254  | 593  | 2118 | 3304 |
| 80° | 253   | 379  | 631  | 2273 | 3788 |
| 85° | 252   | 503  | 1006 | 2516 | 3774 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 85915 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.7    | 0.6       |
| 10°-20°   | 3.6    | 2.8       |
| 20°-30°   | 14.9   | 11.6      |
| 30°-40°   | 31.4   | 24.5      |
| 40°-50°   | 38.7   | 30.3      |
| 50°-60°   | 29.0   | 22.7      |
| 60°-70°   | 7.5    | 5.8       |
| 70°-80°   | 1.5    | 1.2       |
| 80°-90°   | 0.6    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 19.2   | 15.0      |
| 0°-40°    | 50.6   | 39.6      |
| 0°-60°    | 118.4  | 92.5      |
| 0°-90°    | 128.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 128.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 7   | 7   | 7   | 7    | 7    |      |
| 5°  | 9   | 8   | 7   | 7    | 7    | 1    |
| 15° | 34  | 12  | 6   | 6    | 6    | 12   |
| 25° | 168 | 26  | 4   | 5    | 5    | 78   |
| 35° | 282 | 36  | 3   | 4    | 5    | 172  |
| 45° | 270 | 26  | 2   | 4    | 5    | 207  |
| 55° | 186 | 7   | 2   | 4    | 5    | 161  |
| 65° | 24  | 0   | 1   | 4    | 5    | 35   |
| 75° | 0   | 0   | 1   | 2    | 4    | 0    |
| 85° | 0   | 0   | 0   | 1    | 2    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1336250

CATALOG NUMBER: P3A02R45B2750DE010 E3A451MW\_5000K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 45°  | 67.5° | 90° | 112.5° |
|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-----|--------|
| 0°    | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   | 7.4  | 7.4   | 7.4 | 7.4    |
| 2.5°  | 7.8   | 7.8   | 7.8   | 7.8   | 7.8   | 7.8   | 7.8   | 7.7  | 7.6   | 7.4 | 7.2    |
| 5°    | 8.8   | 8.7   | 8.7   | 8.7   | 8.6   | 8.5   | 8.5   | 8.1  | 7.7   | 7.3 | 7.0    |
| 7.5°  | 10.4  | 10.4  | 10.3  | 10.0  | 9.9   | 9.7   | 9.5   | 8.7  | 7.7   | 7.1 | 6.7    |
| 10°   | 13.9  | 13.6  | 13.3  | 13.1  | 12.6  | 11.8  | 11.3  | 9.4  | 7.6   | 6.8 | 6.5    |
| 12.5° | 20.7  | 21.2  | 20.1  | 19.0  | 17.6  | 16.2  | 14.5  | 10.7 | 7.6   | 6.5 | 6.1    |
| 15°   | 33.8  | 34.6  | 32.6  | 30.5  | 26.9  | 23.5  | 20.3  | 12.4 | 7.4   | 6.0 | 5.7    |
| 17.5° | 55.3  | 56.3  | 52.9  | 47.9  | 42.3  | 35.5  | 29.7  | 14.7 | 7.2   | 5.6 | 5.4    |
| 20°   | 86.7  | 86.6  | 80.1  | 73.8  | 63.0  | 53.1  | 42.2  | 18.0 | 6.9   | 5.1 | 5.1    |
| 22.5° | 125.3 | 125.8 | 117.7 | 106.5 | 91.2  | 75.2  | 57.9  | 21.8 | 6.5   | 4.7 | 4.8    |
| 25°   | 168.0 | 164.4 | 154.8 | 141.2 | 121.6 | 99.5  | 76.7  | 25.7 | 6.0   | 4.2 | 4.4    |
| 27.5° | 203.5 | 200.0 | 189.1 | 172.9 | 151.9 | 125.6 | 95.8  | 29.6 | 5.5   | 3.8 | 4.1    |
| 30°   | 236.6 | 232.2 | 219.0 | 200.7 | 175.7 | 147.3 | 113.8 | 32.9 | 4.9   | 3.3 | 3.8    |
| 32.5° | 263.9 | 259.9 | 244.9 | 223.7 | 196.4 | 165.9 | 129.0 | 35.4 | 4.2   | 3.0 | 3.6    |
| 35°   | 282.3 | 278.2 | 264.4 | 241.0 | 211.3 | 179.5 | 141.4 | 36.5 | 3.7   | 2.6 | 3.5    |
| 37.5° | 286.5 | 284.3 | 274.5 | 252.6 | 221.6 | 188.2 | 149.3 | 36.2 | 3.1   | 2.4 | 3.3    |
| 40°   | 281.6 | 282.2 | 277.5 | 259.3 | 227.1 | 191.9 | 152.6 | 34.5 | 2.5   | 2.2 | 3.2    |
| 42.5° | 275.4 | 276.8 | 276.5 | 262.1 | 229.4 | 192.1 | 151.2 | 31.1 | 2.0   | 2.0 | 3.1    |
| 45°   | 270.1 | 271.5 | 273.4 | 260.9 | 227.8 | 189.3 | 146.9 | 26.5 | 1.5   | 1.9 | 3.1    |
| 47.5° | 260.5 | 262.0 | 264.7 | 251.6 | 219.8 | 182.2 | 139.1 | 21.6 | 1.1   | 1.8 | 3.0    |
| 50°   | 245.2 | 245.9 | 245.2 | 230.5 | 204.3 | 170.8 | 126.4 | 16.8 | 0.7   | 1.7 | 3.0    |
| 52.5° | 229.4 | 227.9 | 221.8 | 203.2 | 179.8 | 152.7 | 110.4 | 12.0 | 0.5   | 1.6 | 2.9    |
| 55°   | 185.9 | 183.6 | 179.1 | 167.6 | 154.3 | 130.5 | 89.3  | 6.7  | 0.5   | 1.6 | 2.7    |
| 57.5° | 129.6 | 130.8 | 132.4 | 130.1 | 124.0 | 102.8 | 67.8  | 3.0  | 0.5   | 1.5 | 2.7    |
| 60°   | 108.9 | 107.9 | 108.0 | 106.5 | 96.4  | 75.0  | 46.6  | 1.2  | 0.5   | 1.4 | 2.6    |
| 62.5° | 65.0  | 65.8  | 67.2  | 67.5  | 57.4  | 41.9  | 24.4  | 0.5  | 0.5   | 1.3 | 2.5    |
| 65°   | 24.4  | 25.6  | 22.4  | 19.5  | 15.4  | 11.3  | 5.7   | 0.4  | 0.6   | 1.2 | 2.3    |
| 67.5° | 0.7   | 0.8   | 1.1   | 1.0   | 1.0   | 0.8   | 0.6   | 0.4  | 0.6   | 1.1 | 2.2    |
| 70°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.4   | 0.4   | 0.4  | 0.5   | 1.0 | 2.0    |
| 72.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4  | 0.5   | 0.8 | 1.8    |
| 75°   | 0.3   | 0.4   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3  | 0.5   | 0.7 | 1.5    |
| 77.5° | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3  | 0.4   | 0.6 | 1.3    |
| 80°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.3  | 0.4   | 0.5 | 1.1    |
| 82.5° | 0.2   | 0.2   | 0.2   | 0.1   | 0.2   | 0.2   | 0.2   | 0.2  | 0.4   | 0.4 | 0.8    |
| 85°   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.2  | 0.3   | 0.4 | 0.5    |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 0.1   | 0.1   | 0.2  | 0.3   | 0.3 | 0.3    |
| 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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CATALOG NUMBER: P3A02R45B2750DE010 E3A451MW\_5000K

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 7.4  | 7.4    | 7.4  |
| 2.5°  | 7.0  | 7.0    | 7.0  |
| 5°    | 6.8  | 6.8    | 6.8  |
| 7.5°  | 6.6  | 6.6    | 6.6  |
| 10°   | 6.3  | 6.3    | 6.3  |
| 12.5° | 6.1  | 6.1    | 6.2  |
| 15°   | 5.8  | 6.0    | 6.0  |
| 17.5° | 5.6  | 5.8    | 5.9  |
| 20°   | 5.4  | 5.6    | 5.7  |
| 22.5° | 5.1  | 5.4    | 5.6  |
| 25°   | 4.9  | 5.3    | 5.4  |
| 27.5° | 4.7  | 5.2    | 5.4  |
| 30°   | 4.5  | 5.1    | 5.3  |
| 32.5° | 4.3  | 5.0    | 5.2  |
| 35°   | 4.2  | 5.0    | 5.2  |
| 37.5° | 4.2  | 4.9    | 5.2  |
| 40°   | 4.1  | 4.9    | 5.2  |
| 42.5° | 4.1  | 4.9    | 5.2  |
| 45°   | 4.1  | 4.9    | 5.2  |
| 47.5° | 4.0  | 4.9    | 5.3  |
| 50°   | 4.0  | 5.0    | 5.3  |
| 52.5° | 4.0  | 5.0    | 5.3  |
| 55°   | 4.0  | 5.0    | 5.2  |
| 57.5° | 3.9  | 4.9    | 5.2  |
| 60°   | 3.9  | 4.9    | 5.2  |
| 62.5° | 3.7  | 4.8    | 5.1  |
| 65°   | 3.6  | 4.7    | 5.0  |
| 67.5° | 3.4  | 4.5    | 4.8  |
| 70°   | 3.2  | 4.2    | 4.5  |
| 72.5° | 2.9  | 4.0    | 4.3  |
| 75°   | 2.5  | 3.7    | 3.9  |
| 77.5° | 2.2  | 3.3    | 3.5  |
| 80°   | 1.8  | 2.7    | 3.0  |
| 82.5° | 1.4  | 2.1    | 2.2  |
| 85°   | 1.0  | 1.4    | 1.5  |
| 87.5° | 0.4  | 0.6    | 0.7  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)