

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: P1345201

Luminaire Tested: P3A13R30B2750DE010 E3CA451MMS\_5000K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1345201  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R30B2750DE010 E3CA451MMS\_5000K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R30 optic, 5000K CCT AND, 80CRI , E3CA451MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

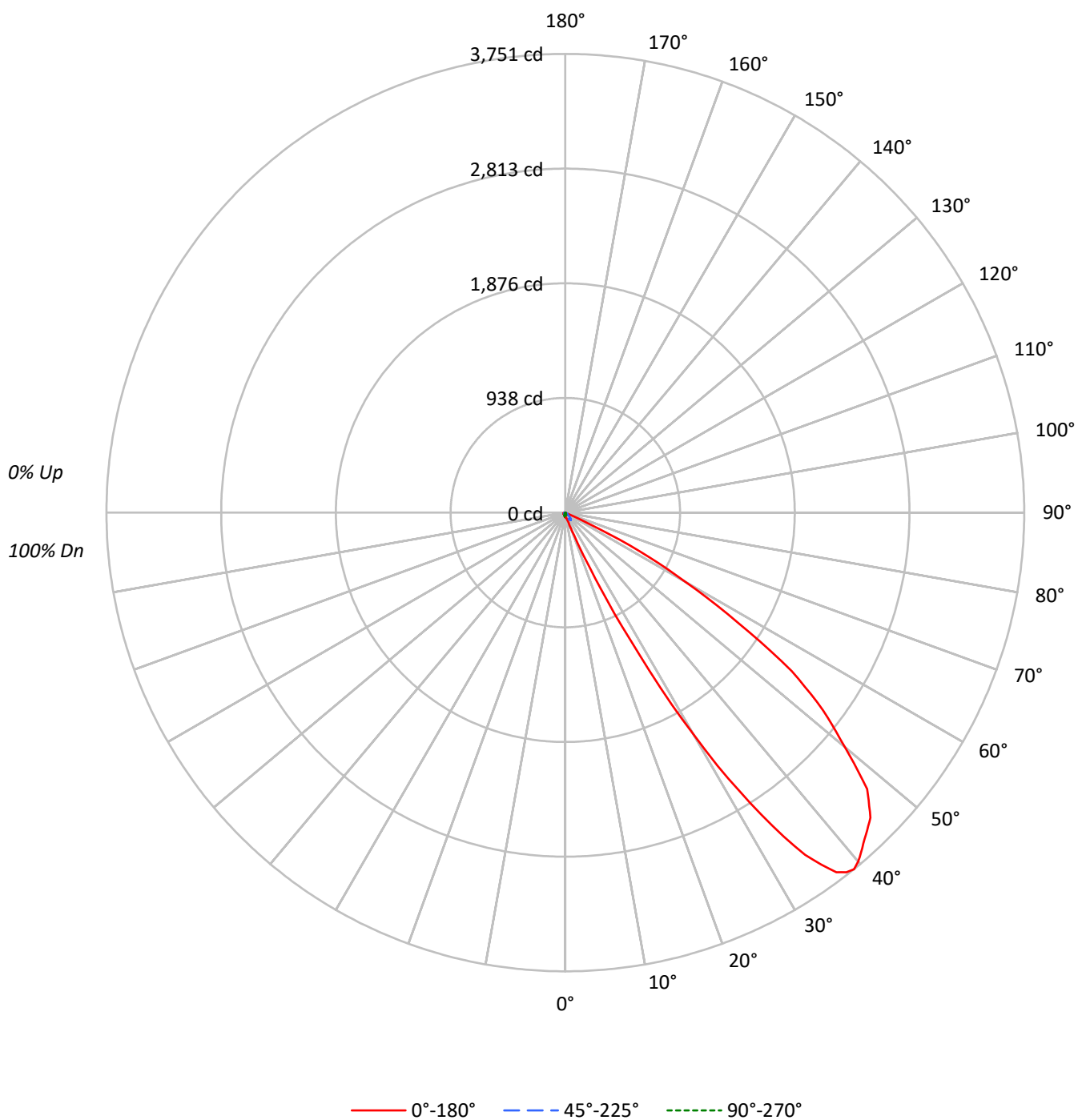
Lumens per Lamp: N/A  
Luminaire Lumens: 975.0 lumens  
Efficiency: N/A  
Efficacy: 51.0 lumens/watt  
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 19.1  
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  | 50  | 30 | 10 |
| 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  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 87  |    |    |
| 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  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |    |    |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 50  |    |    |
| 5   | 75  | 62  | 52  | 46  | 73  | 60  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 54  | 49  | 44  | 42  |    |    |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  | 49  | 42  | 37  | 48  | 42  | 37  | 35  |    |    |
| 7   | 62  | 48  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 31  | 44  | 36  | 31  | 42  | 36  | 31  | 29  |    |    |
| 8   | 56  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 26  | 39  | 32  | 26  | 37  | 31  | 26  | 24  |    |    |
| 9   | 52  | 37  | 29  | 23  | 50  | 37  | 28  | 23  | 36  | 28  | 22  | 34  | 27  | 22  | 33  | 27  | 22  | 20  |    |    |
| 10  | 48  | 33  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 24  | 19  | 31  | 24  | 19  | 30  | 24  | 19  | 17  |    |    |

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

|     | 0°      | 45°   | 90°  | 135° | 180°  |
|-----|---------|-------|------|------|-------|
| 0°  | 8289    | 8289  | 8289 | 8289 | 8289  |
| 5°  | 8849    | 8673  | 8144 | 7418 | 7242  |
| 10° | 9686    | 8595  | 7125 | 6390 | 6212  |
| 15° | 14166   | 8581  | 5971 | 5403 | 5585  |
| 20° | 35656   | 9381  | 4597 | 4597 | 5180  |
| 25° | 165518  | 11735 | 3581 | 4162 | 4766  |
| 30° | 526967  | 16230 | 2709 | 3950 | 4786  |
| 35° | 914383  | 19782 | 2195 | 3748 | 4845  |
| 40° | 1066398 | 19751 | 1632 | 3750 | 4924  |
| 45° | 1093664 | 14017 | 1768 | 4062 | 5334  |
| 50° | 1017041 | 7846  | 1399 | 4196 | 6175  |
| 55° | 864390  | 4091  | 1567 | 4702 | 6920  |
| 60° | 499214  | 1096  | 1798 | 5043 | 7543  |
| 65° | 101853  | 0     | 2127 | 5967 | 8509  |
| 70° | 1603    | 513   | 2629 | 6860 | 10002 |
| 75° | 1356    | 678   | 2796 | 6947 | 11861 |
| 80° | 1010    | 1010  | 4167 | 8334 | 13512 |
| 85° | 0       | 2013  | 8303 | 8303 | 16605 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1093664 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.4    | 0.4       |
| 10°-20°   | 9.8    | 1.0       |
| 20°-30°   | 56.2   | 5.8       |
| 30°-40°   | 262.6  | 26.9      |
| 40°-50°   | 371.4  | 38.1      |
| 50°-60°   | 228.5  | 23.4      |
| 60°-70°   | 34.8   | 3.6       |
| 70°-80°   | 5.5    | 0.6       |
| 80°-90°   | 2.8    | 0.3       |
| 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°    | 69.5   | 7.1       |
| 0°-40°    | 332.1  | 34.1      |
| 0°-60°    | 931.9  | 95.6      |
| 0°-90°    | 975.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 975.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 38   | 38  | 38  | 38   | 38   |      |
| 5°  | 40   | 39  | 37  | 34   | 33   | 4    |
| 15° | 62   | 38  | 26  | 24   | 25   | 22   |
| 25° | 684  | 48  | 15  | 17   | 20   | 421  |
| 35° | 3416 | 74  | 8   | 14   | 18   | 2050 |
| 45° | 3527 | 45  | 6   | 13   | 17   | 2674 |
| 55° | 2261 | 11  | 4   | 12   | 18   | 1924 |
| 65° | 196  | 0   | 4   | 12   | 16   | 355  |
| 75° | 2    | 1   | 3   | 8    | 14   | 2    |
| 85° | 0    | 1   | 3   | 3    | 7    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 45°  | 67.5° | 90°  | 112.5° | 135° |
|-------|--------|--------|--------|--------|--------|--------|------|-------|------|--------|------|
| 0°    | 37.8   | 37.8   | 37.8   | 37.8   | 37.8   | 37.8   | 37.8 | 37.8  | 37.8 | 37.8   | 37.8 |
| 2.5°  | 38.6   | 38.6   | 39.4   | 39.4   | 38.6   | 39.4   | 39.4 | 39.4  | 37.8 | 37.0   | 35.3 |
| 5°    | 40.2   | 40.2   | 40.2   | 41.1   | 40.2   | 40.2   | 39.4 | 38.6  | 37.0 | 34.5   | 33.7 |
| 7.5°  | 41.9   | 41.9   | 41.1   | 41.9   | 41.1   | 41.1   | 39.4 | 37.8  | 35.3 | 32.9   | 31.2 |
| 10°   | 43.5   | 43.5   | 42.7   | 42.7   | 41.9   | 41.9   | 38.6 | 36.1  | 32.0 | 29.6   | 28.7 |
| 12.5° | 48.5   | 48.5   | 47.6   | 46.8   | 45.2   | 44.4   | 37.8 | 33.7  | 28.7 | 26.3   | 25.5 |
| 15°   | 62.4   | 61.6   | 60.0   | 57.5   | 53.4   | 52.6   | 37.8 | 31.2  | 26.3 | 23.8   | 23.8 |
| 17.5° | 85.4   | 84.6   | 82.1   | 75.6   | 68.2   | 65.7   | 37.8 | 27.9  | 23.0 | 21.4   | 21.4 |
| 20°   | 152.8  | 146.2  | 133.9  | 117.4  | 100.2  | 91.2   | 40.2 | 24.6  | 19.7 | 18.9   | 19.7 |
| 21°   | 199.6  | 193.0  | 177.4  | 150.3  | 119.9  | 110.1  | 41.9 | 23.8  | 18.9 | 18.1   | 19.7 |
| 22°   | 271.8  | 264.5  | 232.4  | 195.5  | 151.9  | 134.7  | 42.7 | 22.2  | 17.2 | 17.2   | 18.9 |
| 23°   | 379.4  | 367.1  | 312.9  | 253.8  | 189.7  | 165.1  | 44.4 | 21.4  | 16.4 | 17.2   | 18.1 |
| 24°   | 496.9  | 486.2  | 424.6  | 335.9  | 242.3  | 207.0  | 46.0 | 20.5  | 15.6 | 15.6   | 17.2 |
| 25°   | 684.1  | 671.8  | 562.6  | 423.8  | 307.2  | 248.9  | 48.5 | 18.9  | 14.8 | 14.8   | 17.2 |
| 26°   | 926.4  | 869.8  | 724.4  | 546.2  | 378.6  | 312.1  | 50.9 | 18.1  | 14.0 | 14.8   | 16.4 |
| 27°   | 1156.4 | 1109.6 | 946.1  | 700.6  | 468.1  | 383.5  | 54.2 | 17.2  | 13.1 | 14.0   | 16.4 |
| 28°   | 1458.6 | 1392.9 | 1186.8 | 886.2  | 589.7  | 464.0  | 57.5 | 16.4  | 12.3 | 14.0   | 15.6 |
| 29°   | 1797.0 | 1705.0 | 1456.2 | 1094.8 | 726.8  | 554.4  | 60.8 | 15.6  | 11.5 | 13.1   | 15.6 |
| 30°   | 2081.2 | 1994.9 | 1746.1 | 1342.0 | 884.5  | 673.5  | 64.1 | 14.8  | 10.7 | 13.1   | 15.6 |
| 31°   | 2414.6 | 2284.0 | 1982.6 | 1551.4 | 1020.1 | 792.6  | 67.3 | 13.1  | 9.9  | 12.3   | 14.8 |
| 32°   | 2684.8 | 2593.7 | 2273.4 | 1788.0 | 1198.3 | 924.0  | 69.8 | 12.3  | 9.9  | 12.3   | 14.8 |
| 33°   | 2946.0 | 2823.6 | 2514.0 | 2014.6 | 1359.2 | 1058.7 | 72.3 | 11.5  | 9.0  | 11.5   | 14.8 |
| 34°   | 3195.7 | 3083.2 | 2741.5 | 2197.8 | 1511.2 | 1186.8 | 73.9 | 9.9   | 9.0  | 11.5   | 14.0 |
| 35°   | 3415.8 | 3285.2 | 2941.9 | 2376.8 | 1667.2 | 1303.4 | 73.9 | 9.0   | 8.2  | 10.7   | 14.0 |
| 36°   | 3558.7 | 3465.1 | 3116.0 | 2553.4 | 1808.5 | 1414.3 | 73.9 | 8.2   | 7.4  | 10.7   | 13.1 |
| 37°   | 3681.1 | 3571.8 | 3255.6 | 2688.9 | 1912.8 | 1503.0 | 73.9 | 7.4   | 7.4  | 10.7   | 13.1 |
| 38°   | 3731.2 | 3637.5 | 3351.7 | 2808.8 | 2010.5 | 1593.3 | 73.1 | 6.6   | 6.6  | 9.9    | 13.1 |
| 39°   | 3750.9 | 3667.1 | 3424.0 | 2895.1 | 2082.8 | 1654.1 | 71.5 | 5.7   | 6.6  | 9.9    | 13.1 |
| 40°   | 3725.4 | 3662.2 | 3461.0 | 2950.9 | 2140.3 | 1698.4 | 69.0 | 4.9   | 5.7  | 9.9    | 13.1 |
| 42.5° | 3620.3 | 3578.4 | 3452.7 | 3006.8 | 2189.6 | 1731.  |      |       |      |        |      |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|-----|-----|-----|-----|-----|-------|-----|-------|-----|--------|------|
| 82.5° | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0   | 0.8 | 2.5   | 3.3 | 3.3    | 4.9  |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.8 | 2.5   | 3.3 | 2.5    | 3.3  |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.8 | 2.5   | 2.5 | 2.5    | 1.6  |
| 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):**

|       | 157.5° | 180° |
|-------|--------|------|
| 0°    | 37.8   | 37.8 |
| 2.5°  | 35.3   | 35.3 |
| 5°    | 32.9   | 32.9 |
| 7.5°  | 30.4   | 30.4 |
| 10°   | 27.9   | 27.9 |
| 12.5° | 26.3   | 26.3 |
| 15°   | 23.8   | 24.6 |
| 17.5° | 22.2   | 23.0 |
| 20°   | 21.4   | 22.2 |
| 21°   | 21.4   | 22.2 |
| 22°   | 20.5   | 21.4 |
| 23°   | 20.5   | 21.4 |
| 24°   | 19.7   | 20.5 |
| 25°   | 18.9   | 19.7 |
| 26°   | 18.9   | 19.7 |
| 27°   | 18.9   | 19.7 |
| 28°   | 18.1   | 19.7 |
| 29°   | 18.1   | 18.9 |
| 30°   | 18.1   | 18.9 |
| 31°   | 17.2   | 18.9 |
| 32°   | 17.2   | 18.9 |
| 33°   | 17.2   | 18.1 |
| 34°   | 16.4   | 18.1 |
| 35°   | 16.4   | 18.1 |
| 36°   | 16.4   | 18.1 |
| 37°   | 16.4   | 17.2 |
| 38°   | 16.4   | 18.1 |
| 39°   | 16.4   | 17.2 |
| 40°   | 16.4   | 17.2 |
| 42.5° | 16.4   | 17.2 |
| 45°   | 16.4   | 17.2 |
| 47.5° | 16.4   | 18.1 |
| 50°   | 16.4   | 18.1 |
| 52.5° | 16.4   | 18.1 |
| 55°   | 16.4   | 18.1 |
| 57.5° | 16.4   | 17.2 |
| 60°   | 16.4   | 17.2 |
| 62.5° | 15.6   | 17.2 |
| 65°   | 15.6   | 16.4 |
| 67.5° | 15.6   | 16.4 |
| 70°   | 14.8   | 15.6 |
| 72.5° | 14.0   | 14.8 |
| 75°   | 12.3   | 14.0 |
| 77.5° | 11.5   | 12.3 |
| 80°   | 9.9    | 10.7 |



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**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 82.5° | 8.2    | 8.2  |
| 85°   | 5.7    | 6.6  |
| 87.5° | 3.3    | 3.3  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)