

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: P1325599

Luminaire Tested: LDSQA3D05R70W2N902750DE010 3LSQCA45R 1MB\_4000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1325599  
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: LDSQA3D05R70W2N902750DE010 3LSQCA45R 1MB\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 4000K CCT AND, 90CRI ,  
3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

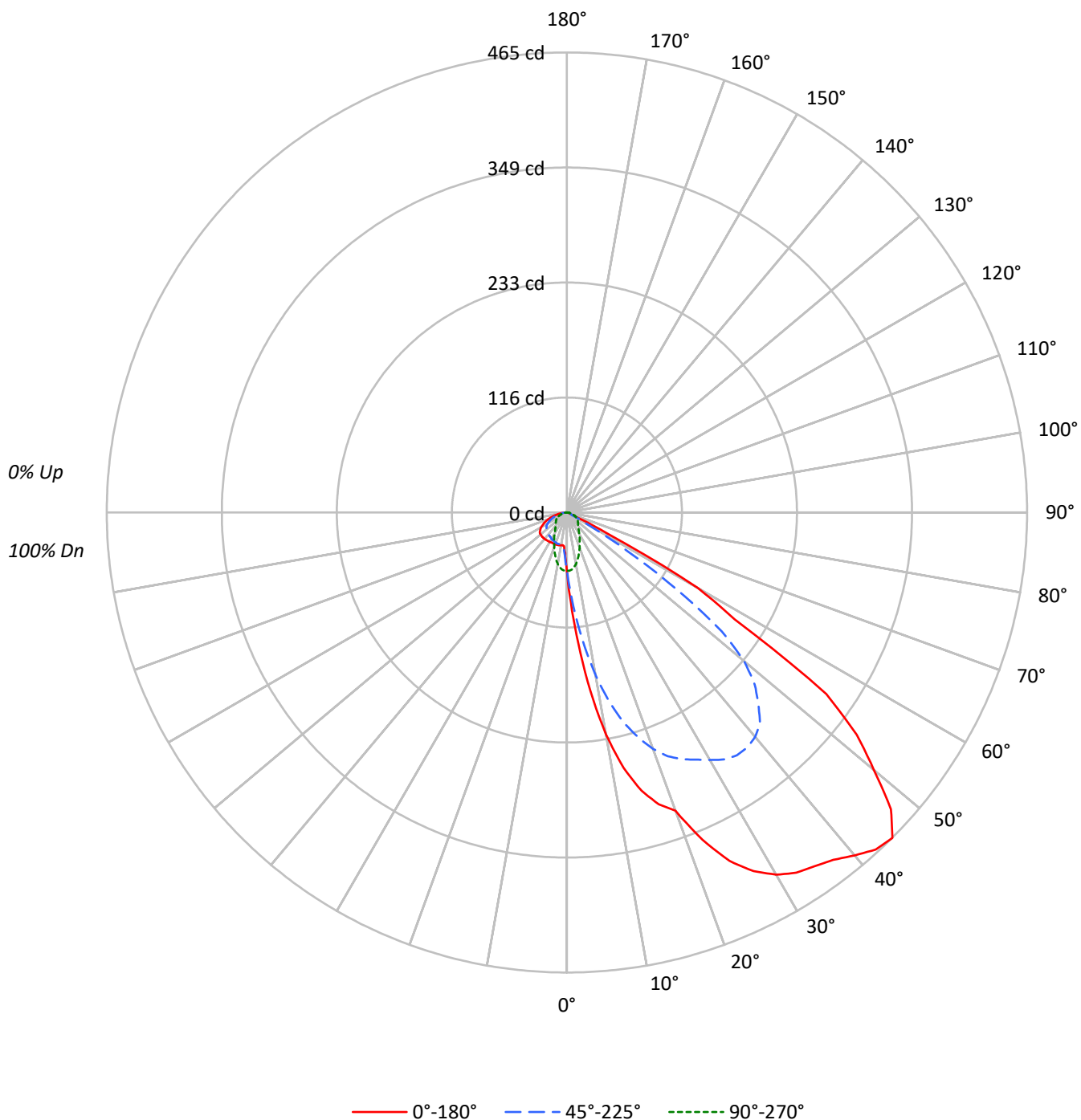
Lumens per Lamp: N/A  
Luminaire Lumens: 402.0 lumens  
Efficiency: N/A  
Efficacy: 68.1 lumens/watt  
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.9  
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  |
| 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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 |
| 1   | 110 | 106 | 103 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 87  | 87  |
| 2   | 101 | 94  | 88  | 83  | 99  | 92  | 87  | 82  | 89  | 84  | 80  | 86  | 82  | 78  | 83  | 79  | 77  | 75  | 75  |
| 3   | 93  | 83  | 76  | 70  | 90  | 82  | 75  | 69  | 79  | 73  | 68  | 76  | 71  | 67  | 74  | 69  | 66  | 64  | 64  |
| 4   | 85  | 74  | 66  | 59  | 83  | 72  | 65  | 59  | 70  | 63  | 58  | 68  | 62  | 57  | 66  | 61  | 57  | 54  | 54  |
| 5   | 78  | 66  | 57  | 51  | 76  | 65  | 57  | 51  | 63  | 55  | 50  | 61  | 54  | 49  | 59  | 53  | 49  | 47  | 47  |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 43  | 55  | 48  | 43  | 53  | 47  | 43  | 41  | 41  |
| 7   | 66  | 53  | 44  | 38  | 65  | 52  | 44  | 38  | 51  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 37  | 35  | 35  |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 33  | 45  | 38  | 33  | 44  | 38  | 33  | 31  | 31  |
| 9   | 57  | 44  | 35  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 29  | 28  | 28  |
| 10  | 53  | 40  | 32  | 27  | 52  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 26  | 37  | 31  | 26  | 25  | 25  |

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

|     | 0°     | 45°   | 90°   | 135°  | 180°  |
|-----|--------|-------|-------|-------|-------|
| 0°  | 10092  | 10092 | 10092 | 10092 | 10092 |
| 5°  | 22959  | 18377 | 9992  | 6310  | 5895  |
| 10° | 39768  | 29170 | 9251  | 5754  | 5893  |
| 15° | 51920  | 38976 | 8077  | 5866  | 6080  |
| 20° | 58813  | 46607 | 6909  | 5956  | 6323  |
| 25° | 73844  | 52276 | 5796  | 6024  | 6480  |
| 30° | 84060  | 57432 | 4952  | 6145  | 6861  |
| 35° | 91751  | 62989 | 4310  | 6244  | 7253  |
| 40° | 101709 | 66547 | 3957  | 6497  | 7846  |
| 45° | 113304 | 66614 | 3897  | 6844  | 8500  |
| 50° | 108539 | 62642 | 3858  | 7207  | 9244  |
| 55° | 96114  | 40595 | 3963  | 7597  | 9999  |
| 60° | 52631  | 8714  | 3996  | 7750  | 10368 |
| 65° | 3749   | 2119  | 3912  | 7702  | 10473 |
| 70° | 1813   | 2014  | 3626  | 7251  | 10121 |
| 75° | 1597   | 2129  | 3460  | 6920  | 9316  |
| 80° | 1587   | 1984  | 3174  | 6347  | 8728  |
| 85° | 1581   | 2371  | 3162  | 5533  | 7904  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 113304 cd/sqm

TEST NUMBER: P1325599

CATALOG NUMBER: LDSQA3D05R70W2N902750DE010 3LSQCA45R 1MB\_4000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 7.6    | 1.9       |
| 10°-20°   | 32.7   | 8.1       |
| 20°-30°   | 62.7   | 15.6      |
| 30°-40°   | 88.6   | 22.1      |
| 40°-50°   | 100.3  | 24.9      |
| 50°-60°   | 79.4   | 19.8      |
| 60°-70°   | 21.4   | 5.3       |
| 70°-80°   | 7.1    | 1.8       |
| 80°-90°   | 2.2    | 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°    | 103.0  | 25.6      |
| 0°-40°    | 191.6  | 47.7      |
| 0°-60°    | 371.3  | 92.4      |
| 0°-90°    | 402.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 402.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 59  | 59  | 59  | 59   | 59   |      |
| 5°  | 133 | 106 | 58  | 36   | 34   | 16   |
| 15° | 291 | 219 | 45  | 33   | 34   | 82   |
| 25° | 389 | 275 | 30  | 32   | 34   | 178  |
| 35° | 436 | 300 | 20  | 30   | 34   | 275  |
| 45° | 465 | 274 | 16  | 28   | 35   | 348  |
| 55° | 320 | 135 | 13  | 25   | 33   | 260  |
| 65° | 9   | 5   | 10  | 19   | 26   | 33   |
| 75° | 2   | 3   | 5   | 10   | 14   | 3    |
| 85° | 1   | 1   | 2   | 3    | 4    | 1    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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CATALOG NUMBER: LDSQA3D05R70W2N902750DE010 3LSQCA45R 1MB\_4000K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 45°   | 67.5° | 90°  | 112.5° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------|
| 0°    | 58.6  | 58.6  | 58.6  | 58.6  | 58.6  | 58.6  | 58.6  | 58.6  | 58.6  | 58.6 | 58.6   |
| 2.5°  | 91.0  | 91.0  | 90.6  | 89.0  | 88.2  | 86.2  | 84.6  | 80.2  | 69.4  | 59.0 | 50.5   |
| 5°    | 132.8 | 134.8 | 132.0 | 131.6 | 129.1 | 125.5 | 123.1 | 106.3 | 80.2  | 57.8 | 43.3   |
| 7.5°  | 182.1 | 182.9 | 182.1 | 178.1 | 174.5 | 168.5 | 162.8 | 136.4 | 91.0  | 55.7 | 38.1   |
| 10°   | 227.4 | 226.2 | 223.8 | 221.0 | 215.8 | 209.4 | 199.7 | 166.8 | 101.5 | 52.9 | 34.9   |
| 12.5° | 264.3 | 263.9 | 261.1 | 258.3 | 251.9 | 243.5 | 233.8 | 194.5 | 110.3 | 49.3 | 33.3   |
| 15°   | 291.2 | 291.2 | 288.4 | 285.2 | 279.1 | 272.3 | 261.5 | 218.6 | 117.5 | 45.3 | 31.7   |
| 17.5° | 309.2 | 308.4 | 306.4 | 304.0 | 299.2 | 292.4 | 284.0 | 237.8 | 122.3 | 41.3 | 31.3   |
| 20°   | 320.9 | 320.5 | 318.9 | 315.2 | 311.2 | 306.0 | 298.4 | 254.3 | 124.3 | 37.7 | 30.9   |
| 22.5° | 358.2 | 355.0 | 348.9 | 341.3 | 331.7 | 319.3 | 308.8 | 266.7 | 123.5 | 33.7 | 30.1   |
| 25°   | 388.6 | 387.4 | 381.0 | 371.8 | 359.0 | 342.9 | 325.7 | 275.1 | 119.5 | 30.5 | 29.3   |
| 27.5° | 408.7 | 406.7 | 400.7 | 390.6 | 377.0 | 361.4 | 345.3 | 281.6 | 113.9 | 27.7 | 28.1   |
| 30°   | 422.7 | 421.5 | 415.5 | 404.3 | 390.2 | 373.0 | 356.6 | 288.8 | 106.3 | 24.9 | 26.9   |
| 32.5° | 431.6 | 430.4 | 424.3 | 414.3 | 400.7 | 382.6 | 363.8 | 296.0 | 97.1  | 22.5 | 25.7   |
| 35°   | 436.4 | 435.2 | 428.3 | 419.5 | 406.7 | 389.0 | 369.0 | 299.6 | 85.8  | 20.5 | 24.5   |
| 37.5° | 442.4 | 440.0 | 430.8 | 419.9 | 407.1 | 390.6 | 370.6 | 299.2 | 74.6  | 18.9 | 23.7   |
| 40°   | 452.4 | 446.0 | 432.8 | 418.3 | 405.1 | 388.6 | 369.4 | 296.0 | 62.2  | 17.6 | 22.9   |
| 42.5° | 462.0 | 452.8 | 433.2 | 415.9 | 401.1 | 385.0 | 365.0 | 288.8 | 48.5  | 16.8 | 22.5   |
| 45°   | 465.2 | 451.6 | 427.5 | 410.3 | 396.3 | 379.8 | 359.0 | 273.5 | 32.9  | 16.0 | 21.7   |
| 47.5° | 444.0 | 434.0 | 413.9 | 401.1 | 387.8 | 371.8 | 350.1 | 257.5 | 18.9  | 15.2 | 20.9   |
| 50°   | 405.1 | 398.7 | 387.4 | 379.4 | 372.2 | 361.0 | 339.7 | 233.8 | 11.2  | 14.4 | 20.1   |
| 52.5° | 369.0 | 367.0 | 359.0 | 352.5 | 348.5 | 343.3 | 324.1 | 197.3 | 9.2   | 14.0 | 19.3   |
| 55°   | 320.1 | 313.6 | 311.6 | 309.2 | 317.7 | 317.3 | 291.2 | 135.2 | 8.8   | 13.2 | 18.4   |
| 57.5° | 200.9 | 203.7 | 214.2 | 233.4 | 256.3 | 269.5 | 268.7 | 72.2  | 8.4   | 12.4 | 17.2   |
| 60°   | 152.8 | 152.4 | 155.6 | 163.6 | 180.5 | 199.3 | 217.0 | 25.3  | 8.0   | 11.6 | 16.4   |
| 62.5° | 45.7  | 46.9  | 56.6  | 83.0  | 99.5  | 122.7 | 111.9 | 6.0   | 7.6   | 10.4 | 14.8   |
| 65°   | 9.2   | 9.6   | 9.6   | 10.8  | 13.2  | 20.1  | 24.5  | 5.2   | 7.2   | 9.6  | 13.6   |
| 67.5° | 4.0   | 4.0   | 4.0   | 4.4   | 4.4   | 5.2   | 4.4   | 4.8   | 6.4   | 8.4  | 12.0   |
| 70°   | 3.6   | 3.6   | 3.6   | 3.6   | 3.6   | 3.6   | 4.0   | 4.0   | 5.6   | 7.2  | 10.4   |
| 72.5° | 2.8   | 2.8   | 2.8   | 3.2   | 3.2   | 3.2   | 3.2   | 3.6   | 4.8   | 6.0  | 8.8    |
| 75°   | 2.4   | 2.4   | 2.4   | 2.4   | 2.8   | 2.8   | 2.8   | 3.2   | 4.0   | 5.2  | 7.2    |
| 77.5° | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.4   | 2.4   | 2.4   | 3.2   | 4.0  | 6.0    |
| 80°   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 2.0   | 2.4   | 3.2  | 4.4    |
| 82.5° | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.6   | 2.0   | 2.4  | 3.2    |
| 85°   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 1.2   | 1.2   | 1.6  | 2.0    |
| 87.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.8   | 0.8   | 0.8  | 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):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 58.6 | 58.6   | 58.6 |
| 2.5°  | 44.5 | 42.1   | 40.9 |
| 5°    | 36.5 | 34.5   | 34.1 |
| 7.5°  | 33.7 | 33.3   | 33.3 |
| 10°   | 32.9 | 33.3   | 33.7 |
| 12.5° | 32.9 | 33.7   | 34.1 |
| 15°   | 32.9 | 33.7   | 34.1 |
| 17.5° | 32.9 | 33.7   | 34.1 |
| 20°   | 32.5 | 33.7   | 34.5 |
| 22.5° | 32.1 | 33.7   | 34.1 |
| 25°   | 31.7 | 33.7   | 34.1 |
| 27.5° | 31.3 | 33.3   | 34.1 |
| 30°   | 30.9 | 33.3   | 34.5 |
| 32.5° | 30.1 | 33.3   | 34.5 |
| 35°   | 29.7 | 33.3   | 34.5 |
| 37.5° | 29.3 | 33.3   | 34.9 |
| 40°   | 28.9 | 33.3   | 34.9 |
| 42.5° | 28.5 | 33.3   | 34.9 |
| 45°   | 28.1 | 32.9   | 34.9 |
| 47.5° | 27.3 | 32.9   | 34.9 |
| 50°   | 26.9 | 32.5   | 34.5 |
| 52.5° | 26.1 | 32.1   | 34.5 |
| 55°   | 25.3 | 31.3   | 33.3 |
| 57.5° | 24.1 | 30.1   | 31.7 |
| 60°   | 22.5 | 28.5   | 30.1 |
| 62.5° | 20.5 | 26.5   | 27.7 |
| 65°   | 18.9 | 24.1   | 25.7 |
| 67.5° | 16.4 | 21.3   | 22.9 |
| 70°   | 14.4 | 18.4   | 20.1 |
| 72.5° | 12.4 | 15.6   | 17.2 |
| 75°   | 10.4 | 12.8   | 14.0 |
| 77.5° | 8.0  | 10.4   | 11.2 |
| 80°   | 6.4  | 8.0    | 8.8  |
| 82.5° | 4.4  | 5.6    | 6.0  |
| 85°   | 2.8  | 3.6    | 4.0  |
| 87.5° | 1.2  | 1.6    | 1.6  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)