

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: P1314571

Luminaire Tested: P3SQAS17R459735DE010 E3SQCA451MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1314571  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS17R459735DE010 E3SQCA451MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 97CRI , E3SQCA451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

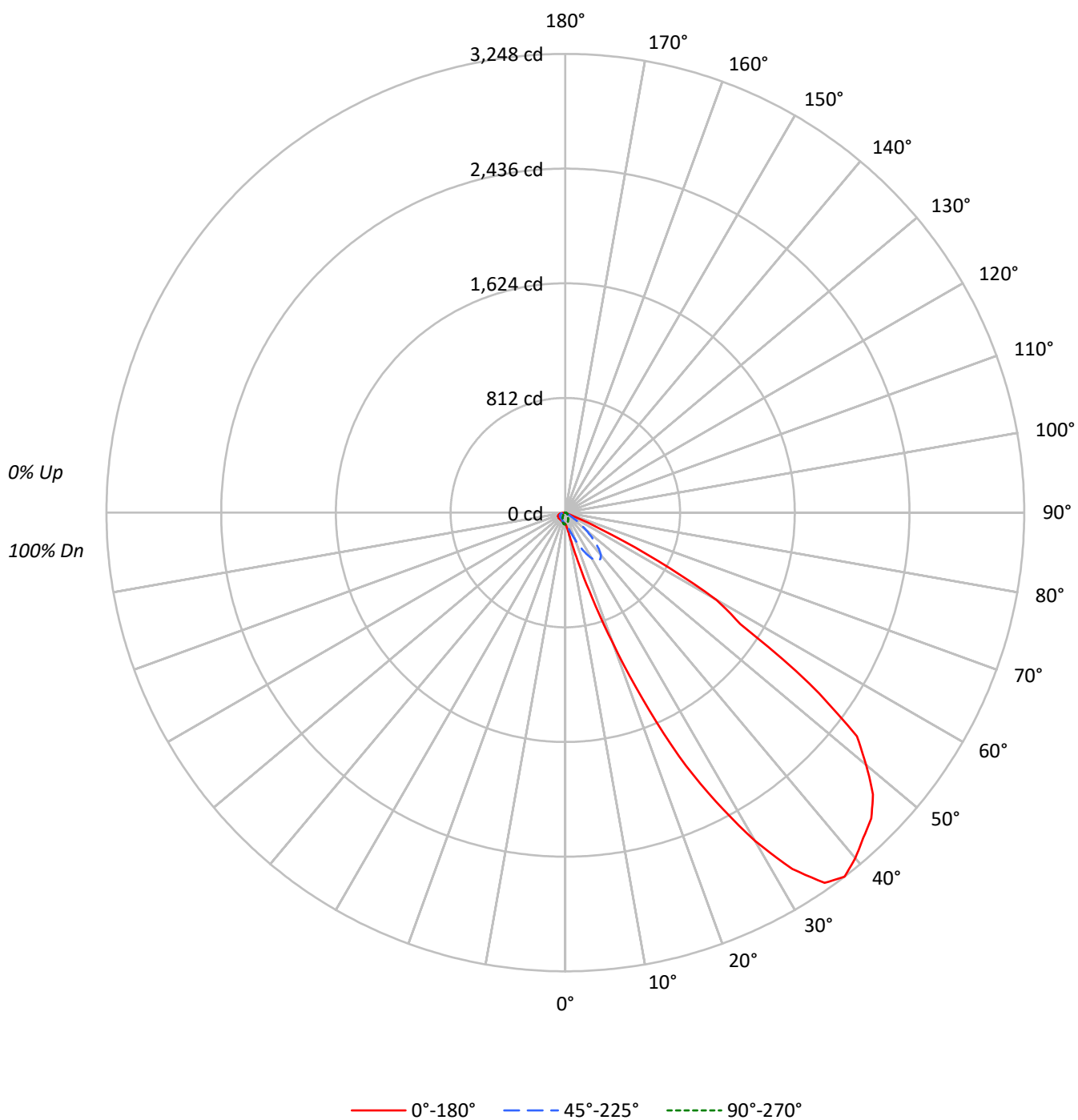
Lumens per Lamp: N/A  
Luminaire Lumens: 1451.1 lumens  
Efficiency: N/A  
Efficacy: 68.4 lumens/watt  
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.2  
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  |     |    | 0  |
| 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  | 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  | 39  | 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  | 37  | 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  | 35  | 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°  | 14449  | 14449 | 14449 | 14449 | 14449 |
| 5°  | 17202  | 15957 | 14297 | 13260 | 13260 |
| 10° | 27474  | 18660 | 13413 | 12574 | 12574 |
| 15° | 68413  | 25015 | 12178 | 11750 | 12178 |
| 20° | 180178 | 37352 | 10538 | 11198 | 11858 |
| 25° | 361792 | 55355 | 9121  | 10489 | 11611 |
| 30° | 533357 | 74157 | 7398  | 10261 | 11912 |
| 35° | 672763 | 86957 | 6307  | 10092 | 12341 |
| 40° | 717785 | 87860 | 5665  | 10522 | 13197 |
| 45° | 745804 | 73287 | 5261  | 11399 | 14297 |
| 50° | 744607 | 51068 | 5144  | 12218 | 16049 |
| 55° | 632860 | 22670 | 5405  | 13692 | 17625 |
| 60° | 425355 | 4547  | 5373  | 15293 | 20219 |
| 65° | 112881 | 1956  | 5379  | 16627 | 22943 |
| 70° | 3021   | 2417  | 5438  | 18128 | 25983 |
| 75° | 2396   | 2396  | 5590  | 19164 | 29545 |
| 80° | 2380   | 3570  | 5951  | 20233 | 33324 |
| 85° | 2371   | 4742  | 9485  | 21341 | 33197 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 764995 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 8.3    | 0.6       |
| 10°-20°   | 40.9   | 2.8       |
| 20°-30°   | 168.8  | 11.6      |
| 30°-40°   | 355.7  | 24.5      |
| 40°-50°   | 438.9  | 30.2      |
| 50°-60°   | 329.0  | 22.7      |
| 60°-70°   | 84.7   | 5.8       |
| 70°-80°   | 17.6   | 1.2       |
| 80°-90°   | 7.1    | 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°    | 218.1  | 15.0      |
| 0°-40°    | 573.8  | 39.5      |
| 0°-60°    | 1341.7 | 92.5      |
| 0°-90°    | 1451.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1451.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 84   | 84  | 84  | 84   | 84   |      |
| 5°  | 100  | 92  | 83  | 77   | 77   | 11   |
| 15° | 384  | 140 | 68  | 66   | 68   | 140  |
| 25° | 1904 | 291 | 48  | 55   | 61   | 887  |
| 35° | 3200 | 414 | 30  | 48   | 59   | 1950 |
| 45° | 3062 | 301 | 22  | 47   | 59   | 2343 |
| 55° | 2108 | 76  | 18  | 46   | 59   | 1820 |
| 65° | 277  | 5   | 13  | 41   | 56   | 399  |
| 75° | 4    | 4   | 8   | 29   | 44   | 4    |
| 85° | 1    | 2   | 5   | 11   | 17   | 1    |
| 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°    | 83.9   | 83.9   | 83.9   | 83.9   | 83.9   | 83.9   | 83.9   | 83.9  | 83.9  | 83.9 | 83.9   |
| 2.5°  | 88.7   | 88.7   | 88.7   | 88.7   | 88.7   | 88.7   | 88.7   | 87.5  | 86.3  | 83.9 | 81.5   |
| 5°    | 99.5   | 98.3   | 98.3   | 98.3   | 97.1   | 95.9   | 95.9   | 92.3  | 87.5  | 82.7 | 79.1   |
| 7.5°  | 117.5  | 117.5  | 116.3  | 113.9  | 112.7  | 110.3  | 107.9  | 98.3  | 87.5  | 80.3 | 75.5   |
| 10°   | 157.1  | 154.7  | 151.1  | 148.7  | 142.7  | 134.3  | 128.3  | 106.7 | 86.3  | 76.7 | 73.1   |
| 12.5° | 235.0  | 239.8  | 227.8  | 215.8  | 199.0  | 183.4  | 164.3  | 121.1 | 86.3  | 73.1 | 69.5   |
| 15°   | 383.7  | 392.0  | 369.3  | 345.3  | 304.5  | 266.2  | 230.2  | 140.3 | 83.9  | 68.3 | 64.7   |
| 17.5° | 627.0  | 637.8  | 599.5  | 543.1  | 479.6  | 402.8  | 336.9  | 166.7 | 81.5  | 63.5 | 61.1   |
| 20°   | 983.1  | 981.9  | 907.6  | 836.9  | 714.6  | 601.9  | 478.4  | 203.8 | 77.9  | 57.5 | 57.5   |
| 22.5° | 1420.7 | 1425.5 | 1334.4 | 1207.3 | 1033.5 | 852.4  | 655.8  | 247.0 | 73.1  | 52.8 | 54.0   |
| 25°   | 1903.9 | 1863.1 | 1755.2 | 1600.6 | 1378.8 | 1128.2 | 869.2  | 291.3 | 68.3  | 48.0 | 50.4   |
| 27.5° | 2306.7 | 2267.2 | 2143.7 | 1960.2 | 1721.7 | 1424.3 | 1086.2 | 335.7 | 62.3  | 43.2 | 46.8   |
| 30°   | 2682.0 | 2631.6 | 2483.0 | 2275.6 | 1991.4 | 1670.1 | 1290.0 | 372.9 | 55.2  | 37.2 | 43.2   |
| 32.5° | 2991.3 | 2945.8 | 2776.7 | 2535.7 | 2226.4 | 1881.1 | 1462.7 | 401.6 | 48.0  | 33.6 | 40.8   |
| 35°   | 3199.9 | 3153.2 | 2997.3 | 2732.4 | 2395.5 | 2034.6 | 1603.0 | 413.6 | 42.0  | 30.0 | 39.6   |
| 37.5° | 3247.9 | 3222.7 | 3111.2 | 2863.0 | 2511.8 | 2132.9 | 1692.9 | 410.0 | 34.8  | 27.6 | 37.2   |
| 40°   | 3192.7 | 3198.7 | 3146.0 | 2939.8 | 2574.1 | 2174.9 | 1730.1 | 390.8 | 28.8  | 25.2 | 36.0   |
| 42.5° | 3122.0 | 3137.6 | 3134.0 | 2970.9 | 2600.5 | 2177.2 | 1714.5 | 352.5 | 22.8  | 22.8 | 34.8   |
| 45°   | 3062.1 | 3077.6 | 3099.2 | 2957.8 | 2582.5 | 2146.1 | 1665.3 | 300.9 | 16.8  | 21.6 | 34.8   |
| 47.5° | 2953.0 | 2969.7 | 3000.9 | 2852.2 | 2491.4 | 2065.7 | 1576.6 | 244.6 | 12.0  | 20.4 | 33.6   |
| 50°   | 2779.1 | 2787.5 | 2779.1 | 2612.5 | 2316.3 | 1936.3 | 1432.7 | 190.6 | 8.4   | 19.2 | 33.6   |
| 52.5° | 2600.5 | 2583.7 | 2514.1 | 2303.1 | 2038.2 | 1731.2 | 1251.7 | 135.5 | 6.0   | 18.0 | 32.4   |
| 55°   | 2107.7 | 2081.3 | 2029.8 | 1900.3 | 1749.2 | 1479.5 | 1011.9 | 75.5  | 6.0   | 18.0 | 31.2   |
| 57.5° | 1468.7 | 1483.1 | 1501.1 | 1474.7 | 1405.1 | 1165.4 | 768.5  | 33.6  | 6.0   | 16.8 | 31.2   |
| 60°   | 1234.9 | 1222.9 | 1224.1 | 1207.3 | 1092.2 | 850.0  | 528.7  | 13.2  | 6.0   | 15.6 | 30.0   |
| 62.5° | 737.3  | 745.7  | 761.3  | 764.9  | 651.0  | 474.8  | 277.0  | 6.0   | 6.0   | 14.4 | 28.8   |
| 65°   | 277.0  | 290.1  | 254.2  | 220.6  | 175.0  | 128.3  | 64.7   | 4.8   | 7.2   | 13.2 | 26.4   |
| 67.5° | 8.4    | 9.6    | 12.0   | 10.8   | 10.8   | 9.6    | 7.2    | 4.8   | 7.2   | 12.0 | 25.2   |
| 70°   | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 4.8    | 4.8    | 4.8   | 6.0   | 10.8 | 22.8   |
| 72.5° | 4.8    | 4.8    | 4.8    | 4.8    | 4.8    | 4.8    | 4.8    | 4.8   | 6.0   | 9.6  | 20.4   |
| 75°   | 3.6    | 4.8    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6   | 6.0   | 8.4  | 16.8   |
| 77.5° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6   | 4.8   | 7.2  | 14.4   |
| 80°   | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 3.6   | 4.8   | 6.0  | 12.0   |
| 82.5° | 2.4    | 2.4    | 2.4    | 1.2    | 2.4    | 2.4    | 2.4    | 2.4   | 4.8   | 4.8  | 9.6    |
| 85°   | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 2.4   | 3.6   | 4.8  | 6.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 1.2    | 1.2    | 2.4   | 3.6   | 3.6  | 3.6    |
| 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):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 83.9 | 83.9   | 83.9 |
| 2.5°  | 79.1 | 79.1   | 79.1 |
| 5°    | 76.7 | 76.7   | 76.7 |
| 7.5°  | 74.3 | 74.3   | 74.3 |
| 10°   | 71.9 | 71.9   | 71.9 |
| 12.5° | 69.5 | 69.5   | 70.7 |
| 15°   | 65.9 | 68.3   | 68.3 |
| 17.5° | 63.5 | 65.9   | 67.1 |
| 20°   | 61.1 | 63.5   | 64.7 |
| 22.5° | 57.5 | 61.1   | 63.5 |
| 25°   | 55.2 | 59.9   | 61.1 |
| 27.5° | 52.8 | 58.7   | 61.1 |
| 30°   | 51.6 | 57.5   | 59.9 |
| 32.5° | 49.2 | 56.3   | 58.7 |
| 35°   | 48.0 | 56.3   | 58.7 |
| 37.5° | 48.0 | 55.2   | 58.7 |
| 40°   | 46.8 | 55.2   | 58.7 |
| 42.5° | 46.8 | 55.2   | 58.7 |
| 45°   | 46.8 | 55.2   | 58.7 |
| 47.5° | 45.6 | 55.2   | 59.9 |
| 50°   | 45.6 | 56.3   | 59.9 |
| 52.5° | 45.6 | 56.3   | 59.9 |
| 55°   | 45.6 | 56.3   | 58.7 |
| 57.5° | 44.4 | 55.2   | 58.7 |
| 60°   | 44.4 | 55.2   | 58.7 |
| 62.5° | 42.0 | 54.0   | 57.5 |
| 65°   | 40.8 | 52.8   | 56.3 |
| 67.5° | 38.4 | 51.6   | 54.0 |
| 70°   | 36.0 | 48.0   | 51.6 |
| 72.5° | 32.4 | 45.6   | 49.2 |
| 75°   | 28.8 | 42.0   | 44.4 |
| 77.5° | 25.2 | 37.2   | 39.6 |
| 80°   | 20.4 | 31.2   | 33.6 |
| 82.5° | 15.6 | 24.0   | 25.2 |
| 85°   | 10.8 | 15.6   | 16.8 |
| 87.5° | 4.8  | 7.2    | 8.4  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)