

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: P1315411

Luminaire Tested: P3SQAS13R559740DE010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315411  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-54)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS13R559740DE010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 97CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

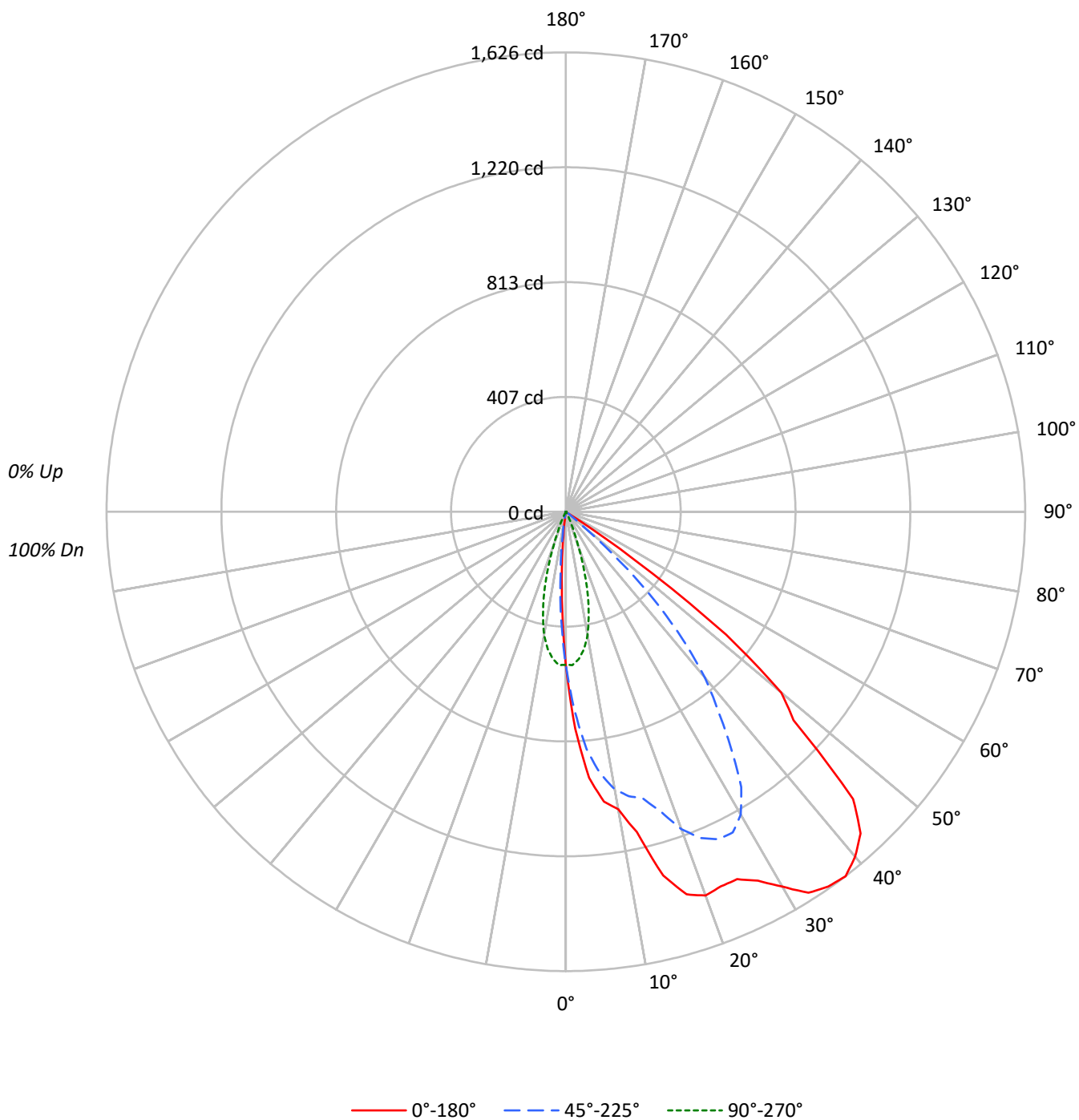
Lumens per Lamp: N/A  
Luminaire Lumens: 1001.9 lumens  
Efficiency: N/A  
Efficacy: 68.6 lumens/watt  
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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  |     |    | 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   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 105 | 99  | 95  | 90  | 103 | 98  | 93  | 89  | 94  | 91  | 87  | 91  | 88  | 86  | 88  | 86  | 84  | 82  |    |    |
| 3   | 98  | 91  | 84  | 80  | 96  | 89  | 83  | 79  | 86  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |    |    |
| 4   | 92  | 82  | 76  | 71  | 90  | 81  | 75  | 70  | 79  | 74  | 69  | 77  | 72  | 68  | 75  | 71  | 68  | 66  |    |    |
| 5   | 86  | 75  | 68  | 63  | 84  | 74  | 68  | 63  | 72  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 61  | 59  |    |    |
| 6   | 80  | 69  | 62  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 56  | 65  | 60  | 55  | 64  | 59  | 55  | 53  |    |    |
| 7   | 75  | 63  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 50  | 60  | 54  | 50  | 59  | 54  | 50  | 48  |    |    |
| 8   | 70  | 58  | 51  | 46  | 68  | 58  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 54  | 49  | 45  | 44  |    |    |
| 9   | 66  | 54  | 47  | 42  | 64  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 50  | 45  | 41  | 40  |    |    |
| 10  | 62  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 36  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 93241  | 93241  | 93241 | 93241 | 93241 |
| 5°  | 163441 | 145704 | 90503 | 37602 | 21645 |
| 10° | 187069 | 174390 | 77402 | 4110  | 1486  |
| 15° | 237725 | 187195 | 53061 | 838   | 499   |
| 20° | 264906 | 218996 | 23294 | 0     | 0     |
| 25° | 272688 | 242987 | 6613  | 0     | 0     |
| 30° | 304662 | 246235 | 935   | 0     | 0     |
| 35° | 340513 | 213819 | 0     | 0     | 0     |
| 40° | 358184 | 172100 | 0     | 0     | 0     |
| 45° | 350214 | 108701 | 0     | 0     | 0     |
| 50° | 266672 | 22211  | 0     | 0     | 0     |
| 55° | 87376  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 0     | 0     | 0     |
| 65° | 0      | 367    | 367   | 0     | 0     |
| 70° | 0      | 453    | 453   | 0     | 0     |
| 75° | 0      | 599    | 599   | 0     | 0     |
| 80° | 0      | 893    | 1884  | 893   | 0     |
| 85° | 0      | 1778   | 1778  | 1778  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 350214 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 49.5   | 4.9       |
| 10°-20°   | 145.0  | 14.5      |
| 20°-30°   | 235.8  | 23.5      |
| 30°-40°   | 280.2  | 28.0      |
| 40°-50°   | 229.1  | 22.9      |
| 50°-60°   | 60.7   | 6.1       |
| 60°-70°   | 0.4    | 0.0       |
| 70°-80°   | 0.6    | 0.1       |
| 80°-90°   | 0.7    | 0.1       |
| 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°    | 430.2  | 42.9      |
| 0°-40°    | 710.4  | 70.9      |
| 0°-60°    | 1000.3 | 99.8      |
| 0°-90°    | 1001.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1001.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 541  | 541  | 541 | 541  | 541  |      |
| 5°  | 945  | 843  | 524 | 218  | 125  | 93   |
| 15° | 1333 | 1050 | 298 | 5    | 3    | 373  |
| 25° | 1435 | 1279 | 35  | 0    | 0    | 676  |
| 35° | 1620 | 1017 | 0   | 0    | 0    | 1007 |
| 45° | 1438 | 446  | 0   | 0    | 0    | 1032 |
| 55° | 291  | 0    | 0   | 0    | 0    | 327  |
| 65° | 0    | 1    | 1   | 0    | 0    | 0    |
| 75° | 0    | 1    | 1   | 0    | 0    | 0    |
| 85° | 0    | 1    | 1   | 1    | 0    | 0    |
| 90° | 0    | 0    | 0   | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 67.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0°    | 541.4  | 541.4  | 541.4  | 541.4  | 541.4  | 541.4  | 541.4  | 541.4  | 541.4  | 541.4  | 541.4 |
| 2.5°  | 768.4  | 762.7  | 763.7  | 760.8  | 763.7  | 751.4  | 738.2  | 726.0  | 716.6  | 703.4  | 623.4 |
| 5°    | 945.4  | 936.0  | 933.2  | 929.4  | 925.6  | 910.6  | 898.3  | 883.2  | 865.4  | 842.8  | 695.9 |
| 7.5°  | 1034.9 | 1027.3 | 1023.6 | 1025.4 | 1017.0 | 1011.3 | 995.3  | 978.4  | 959.5  | 935.0  | 750.5 |
| 10°   | 1069.7 | 1062.2 | 1061.2 | 1060.3 | 1059.3 | 1055.6 | 1048.0 | 1033.0 | 1016.0 | 997.2  | 781.6 |
| 12.5° | 1161.0 | 1144.1 | 1132.8 | 1119.6 | 1103.6 | 1082.9 | 1065.9 | 1052.7 | 1046.2 | 1031.1 | 795.7 |
| 15°   | 1333.3 | 1317.3 | 1305.1 | 1288.1 | 1258.0 | 1213.8 | 1173.3 | 1121.5 | 1076.3 | 1049.9 | 790.0 |
| 17.5° | 1420.0 | 1412.4 | 1402.1 | 1390.8 | 1370.1 | 1338.1 | 1296.6 | 1242.0 | 1184.6 | 1110.2 | 762.7 |
| 20°   | 1445.4 | 1441.6 | 1434.1 | 1429.4 | 1415.3 | 1392.7 | 1364.4 | 1322.0 | 1268.4 | 1194.9 | 720.3 |
| 22.5° | 1435.0 | 1437.9 | 1441.6 | 1453.9 | 1455.8 | 1439.8 | 1413.4 | 1372.9 | 1318.3 | 1250.5 | 655.4 |
| 25°   | 1435.0 | 1433.2 | 1433.2 | 1458.6 | 1474.6 | 1467.1 | 1448.2 | 1411.5 | 1355.9 | 1278.7 | 575.3 |
| 27.5° | 1471.8 | 1460.5 | 1436.9 | 1463.3 | 1489.7 | 1486.8 | 1469.9 | 1426.6 | 1364.4 | 1279.7 | 477.4 |
| 30°   | 1532.0 | 1507.5 | 1468.9 | 1493.4 | 1517.9 | 1507.5 | 1480.2 | 1424.7 | 1345.6 | 1238.2 | 357.8 |
| 32.5° | 1598.9 | 1587.6 | 1567.8 | 1583.8 | 1580.1 | 1538.6 | 1489.7 | 1412.4 | 1307.0 | 1155.4 | 241.1 |
| 35°   | 1619.6 | 1621.5 | 1608.3 | 1605.5 | 1583.8 | 1541.4 | 1489.7 | 1377.6 | 1226.0 | 1017.0 | 143.1 |
| 37.5° | 1626.2 | 1627.1 | 1606.4 | 1580.1 | 1548.0 | 1498.1 | 1436.0 | 1306.0 | 1076.3 | 883.2  | 76.3  |
| 40°   | 1593.2 | 1592.3 | 1558.4 | 1526.4 | 1490.6 | 1441.6 | 1351.2 | 1155.4 | 934.1  | 765.5  | 27.3  |
| 42.5° | 1544.3 | 1532.0 | 1500.0 | 1460.5 | 1417.2 | 1355.9 | 1214.7 | 975.5  | 811.7  | 613.0  | 1.9   |
| 45°   | 1437.9 | 1426.6 | 1401.1 | 1358.8 | 1310.7 | 1224.1 | 1001.0 | 838.1  | 660.1  | 446.3  | 0.0   |
| 47.5° | 1093.2 | 1087.6 | 1113.9 | 1119.6 | 1118.7 | 1019.8 | 835.2  | 683.6  | 484.9  | 259.9  | 0.0   |
| 50°   | 995.3  | 987.8  | 961.4  | 927.5  | 867.2  | 784.4  | 669.5  | 506.6  | 284.4  | 82.9   | 0.0   |
| 52.5° | 714.7  | 739.2  | 744.8  | 719.4  | 662.9  | 581.0  | 461.4  | 291.9  | 98.9   | 0.0    | 0.0   |
| 55°   | 291.0  | 275.9  | 287.2  | 301.3  | 312.6  | 287.2  | 212.8  | 103.6  | 0.9    | 0.0    | 0.0   |
| 57.5° | 0.0    | 0.9    | 5.6    | 13.2   | 21.7   | 27.3   | 29.2   | 1.9    | 0.0    | 0.0    | 0.0   |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9   |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9   |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.0    | 0.9    | 0.9    | 0.9   |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    | 1.9   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    | 1.9   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9   |
| 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):**

|       | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|--------|-------|--------|-------|
| 0°    | 541.4 | 541.4  | 541.4 | 541.4  | 541.4 |
| 2.5°  | 543.3 | 459.5  | 378.5 | 334.3  | 312.6 |
| 5°    | 523.5 | 351.2  | 217.5 | 150.7  | 125.2 |
| 7.5°  | 490.6 | 241.1  | 86.6  | 35.8   | 25.4  |
| 10°   | 442.6 | 138.4  | 23.5  | 9.4    | 8.5   |
| 12.5° | 373.8 | 63.1   | 8.5   | 6.6    | 6.6   |
| 15°   | 297.6 | 21.7   | 4.7   | 3.8    | 2.8   |
| 17.5° | 209.0 | 5.6    | 1.9   | 0.0    | 0.0   |
| 20°   | 127.1 | 0.9    | 0.0   | 0.0    | 0.0   |
| 22.5° | 70.6  | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 34.8  | 0.0    | 0.0   | 0.0    | 0.0   |
| 27.5° | 15.1  | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 4.7   | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 50°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 52.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 55°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 57.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 60°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.9   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.9   | 0.9    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.9   | 0.9    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.9   | 0.9    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.9   | 0.9    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.9   | 0.9    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.9   | 0.9    | 0.9   | 0.0    | 0.0   |
| 80°   | 1.9   | 0.9    | 0.9   | 0.0    | 0.0   |
| 82.5° | 1.9   | 0.9    | 0.9   | 0.0    | 0.0   |
| 85°   | 0.9   | 0.9    | 0.9   | 0.0    | 0.0   |
| 87.5° | 1.9   | 0.9    | 0.9   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)