

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: P1314271

Luminaire Tested: P3SQAS09R559735DE010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1314271  
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: P3SQAS09R559735DE010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 97CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

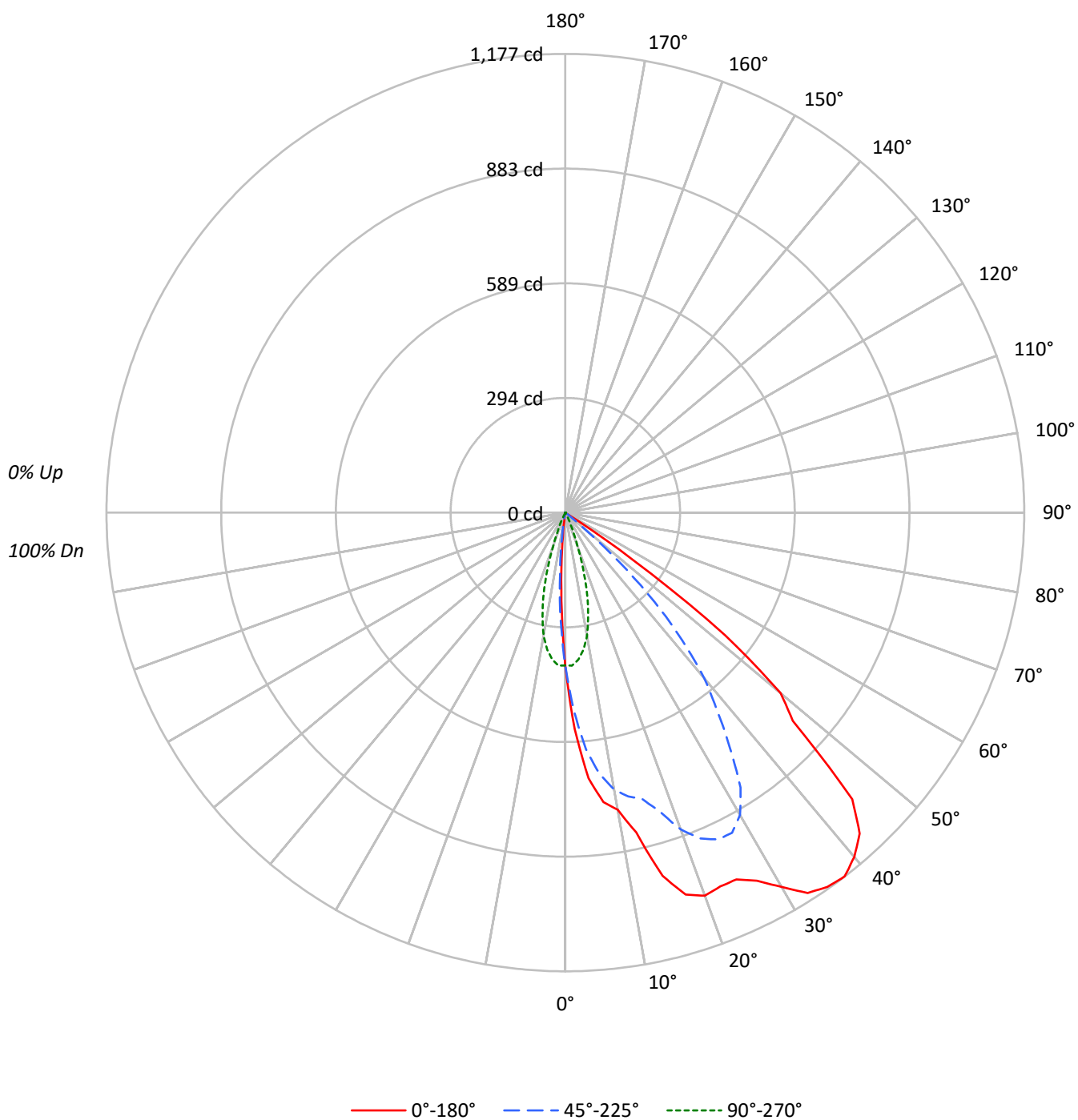
Lumens per Lamp: N/A  
Luminaire Lumens: 725.0 lumens  
Efficiency: N/A  
Efficacy: 65.3 lumens/watt  
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
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   | 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  | 90  | 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°  | 67477  | 67477  | 67477 | 67477 | 67477 |
| 5°  | 118250 | 105423 | 65487 | 27211 | 15663 |
| 10° | 135357 | 126176 | 55996 | 2973  | 1067  |
| 15° | 172004 | 135453 | 38388 | 606   | 357   |
| 20° | 191670 | 158460 | 16861 | 0     | 0     |
| 25° | 197305 | 175813 | 4789  | 0     | 0     |
| 30° | 220442 | 178164 | 676   | 0     | 0     |
| 35° | 246386 | 154698 | 0     | 0     | 0     |
| 40° | 259173 | 124528 | 0     | 0     | 0     |
| 45° | 253399 | 78645  | 0     | 0     | 0     |
| 50° | 192964 | 16076  | 0     | 0     | 0     |
| 55° | 63205  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 0     | 0     | 0     |
| 65° | 0      | 285    | 285   | 0     | 0     |
| 70° | 0      | 352    | 352   | 0     | 0     |
| 75° | 0      | 466    | 466   | 0     | 0     |
| 80° | 0      | 694    | 1389  | 694   | 0     |
| 85° | 0      | 1383   | 1383  | 1383  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 253399 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 35.8   | 4.9       |
| 10°-20°   | 104.9  | 14.5      |
| 20°-30°   | 170.6  | 23.5      |
| 30°-40°   | 202.7  | 28.0      |
| 40°-50°   | 165.8  | 22.9      |
| 50°-60°   | 43.9   | 6.1       |
| 60°-70°   | 0.3    | 0.0       |
| 70°-80°   | 0.5    | 0.1       |
| 80°-90°   | 0.5    | 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°    | 311.3  | 42.9      |
| 0°-40°    | 514.0  | 70.9      |
| 0°-60°    | 723.8  | 99.8      |
| 0°-90°    | 725.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 725.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 392  | 392 | 392 | 392  | 392  |      |
| 5°  | 684  | 610 | 379 | 157  | 91   | 67   |
| 15° | 965  | 760 | 215 | 3    | 2    | 270  |
| 25° | 1038 | 925 | 25  | 0    | 0    | 489  |
| 35° | 1172 | 736 | 0   | 0    | 0    | 729  |
| 45° | 1040 | 323 | 0   | 0    | 0    | 747  |
| 55° | 210  | 0   | 0   | 0    | 0    | 237  |
| 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°    | 391.8  | 391.8  | 391.8  | 391.8  | 391.8  | 391.8  | 391.8  | 391.8  | 391.8 | 391.8 | 391.8 |
| 2.5°  | 556.0  | 551.9  | 552.5  | 550.5  | 552.5  | 543.7  | 534.2  | 525.3  | 518.5 | 508.9 | 451.0 |
| 5°    | 684.0  | 677.2  | 675.2  | 672.5  | 669.7  | 658.8  | 650.0  | 639.1  | 626.1 | 609.8 | 503.5 |
| 7.5°  | 748.8  | 743.3  | 740.6  | 742.0  | 735.8  | 731.7  | 720.2  | 707.9  | 694.3 | 676.5 | 543.0 |
| 10°   | 774.0  | 768.5  | 767.8  | 767.2  | 766.5  | 763.8  | 758.3  | 747.4  | 735.1 | 721.5 | 565.5 |
| 12.5° | 840.1  | 827.8  | 819.6  | 810.1  | 798.5  | 783.5  | 771.3  | 761.7  | 756.9 | 746.0 | 575.7 |
| 15°   | 964.7  | 953.2  | 944.3  | 932.0  | 910.2  | 878.2  | 848.9  | 811.5  | 778.7 | 759.7 | 571.6 |
| 17.5° | 1027.4 | 1022.0 | 1014.5 | 1006.3 | 991.3  | 968.2  | 938.2  | 898.7  | 857.1 | 803.3 | 551.9 |
| 20°   | 1045.8 | 1043.1 | 1037.6 | 1034.2 | 1024.0 | 1007.7 | 987.2  | 956.6  | 917.7 | 864.6 | 521.2 |
| 22.5° | 1038.3 | 1040.4 | 1043.1 | 1052.0 | 1053.3 | 1041.7 | 1022.7 | 993.4  | 953.8 | 904.8 | 474.2 |
| 25°   | 1038.3 | 1037.0 | 1037.0 | 1055.4 | 1066.9 | 1061.5 | 1047.9 | 1021.3 | 981.1 | 925.2 | 416.3 |
| 27.5° | 1064.9 | 1056.7 | 1039.7 | 1058.8 | 1077.8 | 1075.8 | 1063.5 | 1032.2 | 987.2 | 925.9 | 345.4 |
| 30°   | 1108.5 | 1090.8 | 1062.9 | 1080.6 | 1098.3 | 1090.8 | 1071.0 | 1030.8 | 973.6 | 895.9 | 258.9 |
| 32.5° | 1156.9 | 1148.7 | 1134.4 | 1146.0 | 1143.3 | 1113.3 | 1077.8 | 1022.0 | 945.7 | 836.0 | 174.4 |
| 35°   | 1171.9 | 1173.2 | 1163.7 | 1161.6 | 1146.0 | 1115.3 | 1077.8 | 996.8  | 887.1 | 735.8 | 103.6 |
| 37.5° | 1176.6 | 1177.3 | 1162.3 | 1143.3 | 1120.1 | 1084.0 | 1039.0 | 945.0  | 778.7 | 639.1 | 55.2  |
| 40°   | 1152.8 | 1152.1 | 1127.6 | 1104.4 | 1078.5 | 1043.1 | 977.7  | 836.0  | 675.9 | 553.9 | 19.8  |
| 42.5° | 1117.4 | 1108.5 | 1085.3 | 1056.7 | 1025.4 | 981.1  | 878.9  | 705.8  | 587.3 | 443.5 | 1.4   |
| 45°   | 1040.4 | 1032.2 | 1013.8 | 983.1  | 948.4  | 885.7  | 724.2  | 606.4  | 477.6 | 322.9 | 0.0   |
| 47.5° | 791.0  | 786.9  | 806.0  | 810.1  | 809.4  | 737.9  | 604.3  | 494.6  | 350.9 | 188.0 | 0.0   |
| 50°   | 720.2  | 714.7  | 695.6  | 671.1  | 627.5  | 567.5  | 484.4  | 366.5  | 205.8 | 60.0  | 0.0   |
| 52.5° | 517.1  | 534.8  | 538.9  | 520.5  | 479.6  | 420.4  | 333.8  | 211.2  | 71.5  | 0.0   | 0.0   |
| 55°   | 210.5  | 199.6  | 207.8  | 218.0  | 226.2  | 207.8  | 154.0  | 74.9   | 0.7   | 0.0   | 0.0   |
| 57.5° | 0.0    | 0.7    | 4.1    | 9.5    | 15.7   | 19.8   | 21.1   | 1.4    | 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   | 0.7   |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.7   | 0.7   |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.0    | 0.7   | 0.7   | 0.7   |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7   | 0.7   | 0.7   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7   | 0.7   | 0.7   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7   | 0.7   | 0.7   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7   | 0.7   | 0.7   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    | 0.7   | 0.7   | 0.7   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    | 0.7   | 0.7   | 1.4   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    | 0.7   | 0.7   | 1.4   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7   | 0.7   | 0.7   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7   | 0.7   | 0.7   |
| 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°    | 391.8 | 391.8  | 391.8 | 391.8  | 391.8 |
| 2.5°  | 393.1 | 332.5  | 273.9 | 241.9  | 226.2 |
| 5°    | 378.8 | 254.1  | 157.4 | 109.0  | 90.6  |
| 7.5°  | 355.0 | 174.4  | 62.7  | 25.9   | 18.4  |
| 10°   | 320.2 | 100.2  | 17.0  | 6.8    | 6.1   |
| 12.5° | 270.5 | 45.6   | 6.1   | 4.8    | 4.8   |
| 15°   | 215.3 | 15.7   | 3.4   | 2.7    | 2.0   |
| 17.5° | 151.3 | 4.1    | 1.4   | 0.0    | 0.0   |
| 20°   | 92.0  | 0.7    | 0.0   | 0.0    | 0.0   |
| 22.5° | 51.1  | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 25.2  | 0.0    | 0.0   | 0.0    | 0.0   |
| 27.5° | 10.9  | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 3.4   | 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° | 0.7   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.7   | 0.7    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.7   | 0.7    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.7   | 0.7    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.7   | 0.7    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.7   | 0.7    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.4   | 0.7    | 0.7   | 0.0    | 0.0   |
| 80°   | 1.4   | 0.7    | 0.7   | 0.0    | 0.0   |
| 82.5° | 1.4   | 0.7    | 0.7   | 0.0    | 0.0   |
| 85°   | 0.7   | 0.7    | 0.7   | 0.0    | 0.0   |
| 87.5° | 1.4   | 0.7    | 0.7   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)