

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: P1315243

Luminaire Tested: P3SQAS09R559740DE010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315243  
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: P3SQAS09R559740DE010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 97CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

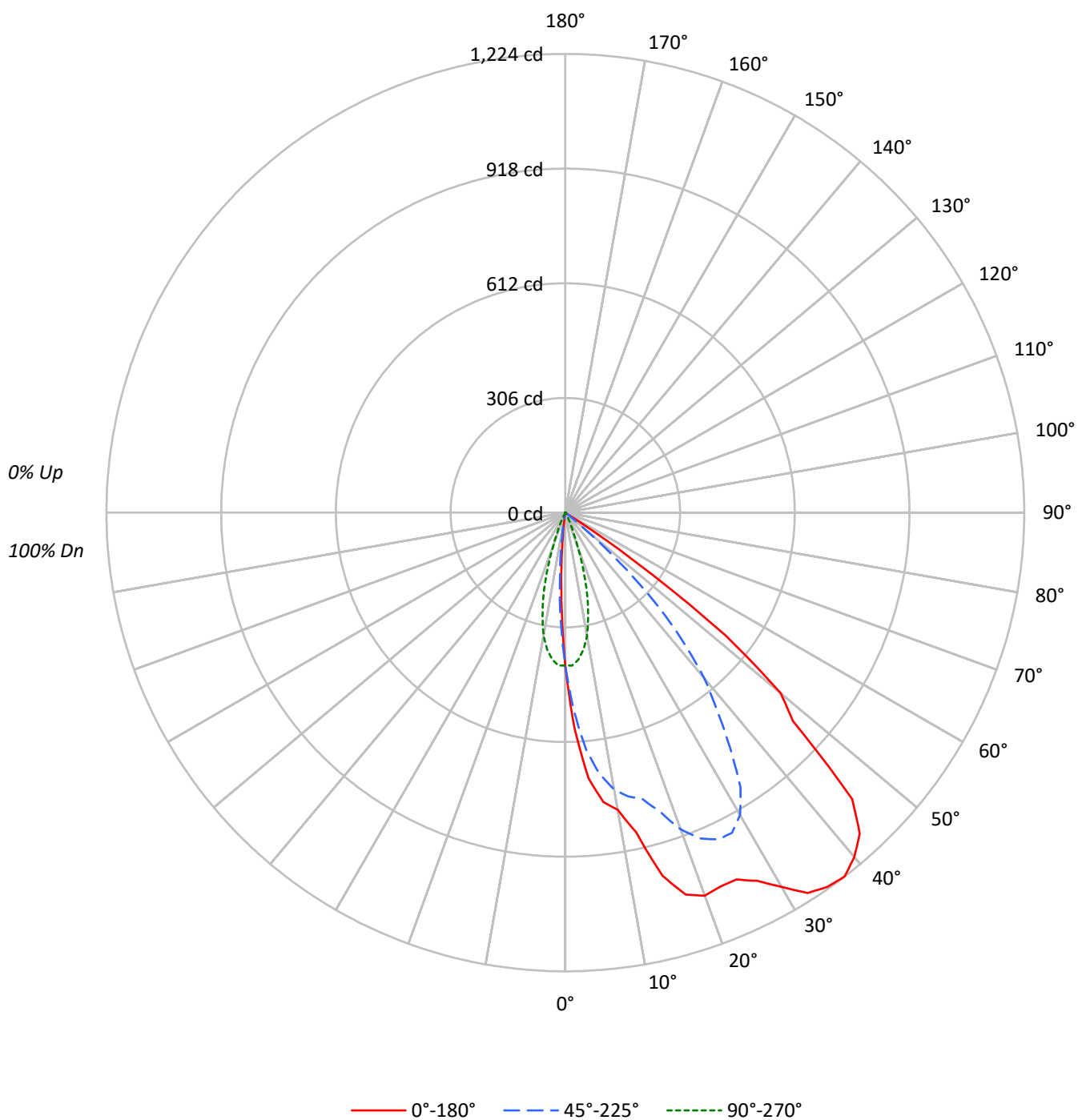
Lumens per Lamp: N/A  
Luminaire Lumens: 754.0 lumens  
Efficiency: N/A  
Efficacy: 67.9 lumens/watt  
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  | 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°  | 70164  | 70164  | 70164 | 70164 | 70164 |
| 5°  | 122987 | 109641 | 68115 | 28301 | 16285 |
| 10° | 140760 | 131230 | 58235 | 3095  | 1119  |
| 15° | 178886 | 140873 | 39921 | 624   | 374   |
| 20° | 199349 | 164801 | 17539 | 0     | 0     |
| 25° | 205210 | 182844 | 4979  | 0     | 0     |
| 30° | 229252 | 185303 | 696   | 0     | 0     |
| 35° | 256226 | 160901 | 0     | 0     | 0     |
| 40° | 269538 | 129519 | 0     | 0     | 0     |
| 45° | 263531 | 81812  | 0     | 0     | 0     |
| 50° | 200680 | 16719  | 0     | 0     | 0     |
| 55° | 65727  | 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: 263531 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 37.2   | 4.9       |
| 10°-20°   | 109.1  | 14.5      |
| 20°-30°   | 177.4  | 23.5      |
| 30°-40°   | 210.8  | 28.0      |
| 40°-50°   | 172.4  | 22.9      |
| 50°-60°   | 45.7   | 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°    | 323.7  | 42.9      |
| 0°-40°    | 534.6  | 70.9      |
| 0°-60°    | 752.7  | 99.8      |
| 0°-90°    | 754.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 754.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 407  | 407 | 407 | 407  | 407  |      |
| 5°  | 711  | 634 | 394 | 164  | 94   | 70   |
| 15° | 1003 | 790 | 224 | 4    | 2    | 281  |
| 25° | 1080 | 962 | 26  | 0    | 0    | 509  |
| 35° | 1219 | 765 | 0   | 0    | 0    | 758  |
| 45° | 1082 | 336 | 0   | 0    | 0    | 777  |
| 55° | 219  | 0   | 0   | 0    | 0    | 246  |
| 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°    | 407.4  | 407.4  | 407.4  | 407.4  | 407.4  | 407.4  | 407.4  | 407.4  | 407.4  | 407.4 | 407.4 |
| 2.5°  | 578.2  | 573.9  | 574.7  | 572.5  | 574.7  | 565.4  | 555.5  | 546.3  | 539.2  | 529.3 | 469.1 |
| 5°    | 711.4  | 704.3  | 702.2  | 699.4  | 696.5  | 685.2  | 676.0  | 664.6  | 651.2  | 634.2 | 523.6 |
| 7.5°  | 778.7  | 773.1  | 770.2  | 771.6  | 765.3  | 761.0  | 749.0  | 736.2  | 722.0  | 703.6 | 564.7 |
| 10°   | 804.9  | 799.3  | 798.6  | 797.9  | 797.1  | 794.3  | 788.6  | 777.3  | 764.5  | 750.4 | 588.1 |
| 12.5° | 873.7  | 860.9  | 852.4  | 842.5  | 830.4  | 814.9  | 802.1  | 792.2  | 787.2  | 775.9 | 598.7 |
| 15°   | 1003.3 | 991.3  | 982.1  | 969.3  | 946.7  | 913.3  | 882.9  | 843.9  | 809.9  | 790.1 | 594.5 |
| 17.5° | 1068.5 | 1062.9 | 1055.1 | 1046.6 | 1031.0 | 1006.9 | 975.7  | 934.6  | 891.4  | 835.4 | 573.9 |
| 20°   | 1087.7 | 1084.8 | 1079.2 | 1075.6 | 1065.0 | 1048.0 | 1026.7 | 994.8  | 954.4  | 899.2 | 542.1 |
| 22.5° | 1079.9 | 1082.0 | 1084.8 | 1094.0 | 1095.5 | 1083.4 | 1063.6 | 1033.1 | 992.0  | 941.0 | 493.2 |
| 25°   | 1079.9 | 1078.4 | 1078.4 | 1097.6 | 1109.6 | 1104.0 | 1089.8 | 1062.1 | 1020.3 | 962.2 | 432.9 |
| 27.5° | 1107.5 | 1099.0 | 1081.3 | 1101.1 | 1121.0 | 1118.8 | 1106.1 | 1073.5 | 1026.7 | 962.9 | 359.2 |
| 30°   | 1152.8 | 1134.4 | 1105.4 | 1123.8 | 1142.2 | 1134.4 | 1113.9 | 1072.1 | 1012.5 | 931.8 | 269.3 |
| 32.5° | 1203.2 | 1194.7 | 1179.8 | 1191.8 | 1189.0 | 1157.8 | 1121.0 | 1062.9 | 983.5  | 869.4 | 181.4 |
| 35°   | 1218.7 | 1220.2 | 1210.2 | 1208.1 | 1191.8 | 1159.9 | 1121.0 | 1036.6 | 922.6  | 765.3 | 107.7 |
| 37.5° | 1223.7 | 1224.4 | 1208.8 | 1189.0 | 1164.9 | 1127.3 | 1080.6 | 982.8  | 809.9  | 664.6 | 57.4  |
| 40°   | 1198.9 | 1198.2 | 1172.7 | 1148.6 | 1121.7 | 1084.8 | 1016.8 | 869.4  | 702.9  | 576.1 | 20.5  |
| 42.5° | 1162.1 | 1152.8 | 1128.8 | 1099.0 | 1066.4 | 1020.3 | 914.1  | 734.1  | 610.8  | 461.3 | 1.4   |
| 45°   | 1082.0 | 1073.5 | 1054.4 | 1022.5 | 986.3  | 921.1  | 753.2  | 630.6  | 496.7  | 335.9 | 0.0   |
| 47.5° | 822.7  | 818.4  | 838.2  | 842.5  | 841.8  | 767.4  | 628.5  | 514.4  | 364.9  | 195.6 | 0.0   |
| 50°   | 749.0  | 743.3  | 723.5  | 697.9  | 652.6  | 590.2  | 503.8  | 381.2  | 214.0  | 62.4  | 0.0   |
| 52.5° | 537.8  | 556.2  | 560.5  | 541.3  | 498.8  | 437.2  | 347.2  | 219.7  | 74.4   | 0.0   | 0.0   |
| 55°   | 218.9  | 207.6  | 216.1  | 226.7  | 235.2  | 216.1  | 160.1  | 77.9   | 0.7    | 0.0   | 0.0   |
| 57.5° | 0.0    | 0.7    | 4.3    | 9.9    | 16.3   | 20.5   | 22.0   | 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°    | 407.4 | 407.4  | 407.4 | 407.4  | 407.4 |
| 2.5°  | 408.8 | 345.8  | 284.8 | 251.5  | 235.2 |
| 5°    | 394.0 | 264.3  | 163.7 | 113.4  | 94.2  |
| 7.5°  | 369.2 | 181.4  | 65.2  | 26.9   | 19.1  |
| 10°   | 333.0 | 104.2  | 17.7  | 7.1    | 6.4   |
| 12.5° | 281.3 | 47.5   | 6.4   | 5.0    | 5.0   |
| 15°   | 223.9 | 16.3   | 3.5   | 2.8    | 2.1   |
| 17.5° | 157.3 | 4.3    | 1.4   | 0.0    | 0.0   |
| 20°   | 95.7  | 0.7    | 0.0   | 0.0    | 0.0   |
| 22.5° | 53.1  | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 26.2  | 0.0    | 0.0   | 0.0    | 0.0   |
| 27.5° | 11.3  | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 3.5   | 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)