

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: P1305806

Luminaire Tested: P3SQASS09R559024DE010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1305806  
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: P3SQASS09R559024DE010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R55 optic, 2400K CCT AND, 90CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

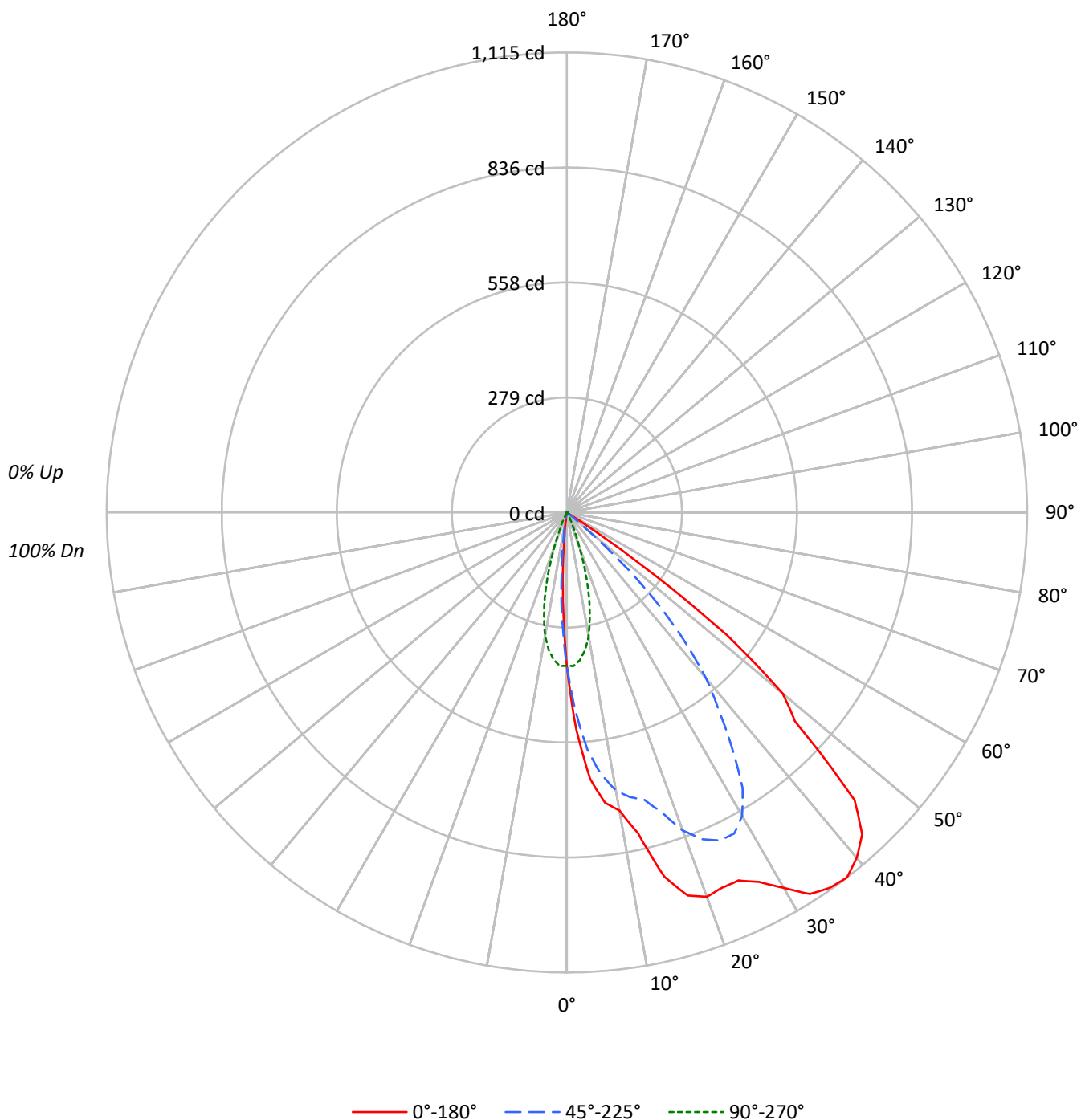
Lumens per Lamp: N/A  
Luminaire Lumens: 686.9 lumens  
Efficiency: N/A  
Efficacy: 61.9 lumens/watt  
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| 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°  | 63929  | 63929  | 63929 | 63929 | 63929 |
| 5°  | 112061 | 99890  | 62064 | 25776 | 14850 |
| 10° | 128257 | 119565 | 53058 | 2816  | 1014  |
| 15° | 163000 | 128357 | 36373 | 571   | 339   |
| 20° | 181626 | 150158 | 15982 | 0     | 0     |
| 25° | 186967 | 166596 | 4542  | 0     | 0     |
| 30° | 208888 | 168837 | 636   | 0     | 0     |
| 35° | 233456 | 146604 | 0     | 0     | 0     |
| 40° | 245594 | 118008 | 0     | 0     | 0     |
| 45° | 240101 | 74529  | 0     | 0     | 0     |
| 50° | 182836 | 15218  | 0     | 0     | 0     |
| 55° | 59902  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 0     | 0     | 0     |
| 65° | 0      | 245    | 245   | 0     | 0     |
| 70° | 0      | 302    | 302   | 0     | 0     |
| 75° | 0      | 399    | 399   | 0     | 0     |
| 80° | 0      | 595    | 1289  | 595   | 0     |
| 85° | 0      | 1186   | 1186  | 1186  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 240101 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 33.9   | 4.9       |
| 10°-20°   | 99.4   | 14.5      |
| 20°-30°   | 161.7  | 23.5      |
| 30°-40°   | 192.1  | 28.0      |
| 40°-50°   | 157.1  | 22.9      |
| 50°-60°   | 41.6   | 6.1       |
| 60°-70°   | 0.2    | 0.0       |
| 70°-80°   | 0.4    | 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°    | 295.0  | 42.9      |
| 0°-40°    | 487.1  | 70.9      |
| 0°-60°    | 685.8  | 99.8      |
| 0°-90°    | 686.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 686.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 371  | 371 | 371 | 371  | 371  |      |
| 5°  | 648  | 578 | 359 | 149  | 86   | 64   |
| 15° | 914  | 720 | 204 | 3    | 2    | 256  |
| 25° | 984  | 877 | 24  | 0    | 0    | 463  |
| 35° | 1110 | 697 | 0   | 0    | 0    | 690  |
| 45° | 986  | 306 | 0   | 0    | 0    | 708  |
| 55° | 200  | 0   | 0   | 0    | 0    | 224  |
| 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°    | 371.2  | 371.2  | 371.2  | 371.2  | 371.2  | 371.2  | 371.2  | 371.2 | 371.2 | 371.2 | 371.2 |
| 2.5°  | 526.8  | 522.9  | 523.6  | 521.7  | 523.6  | 515.2  | 506.2  | 497.8 | 491.3 | 482.3 | 427.4 |
| 5°    | 648.2  | 641.7  | 639.8  | 637.2  | 634.6  | 624.3  | 615.9  | 605.6 | 593.3 | 577.8 | 477.1 |
| 7.5°  | 709.5  | 704.4  | 701.8  | 703.1  | 697.3  | 693.4  | 682.4  | 670.8 | 657.9 | 641.1 | 514.5 |
| 10°   | 733.4  | 728.2  | 727.6  | 727.0  | 726.3  | 723.7  | 718.6  | 708.2 | 696.6 | 683.7 | 535.9 |
| 12.5° | 796.0  | 784.4  | 776.7  | 767.6  | 756.7  | 742.4  | 730.8  | 721.8 | 717.3 | 706.9 | 545.5 |
| 15°   | 914.2  | 903.2  | 894.8  | 883.2  | 862.5  | 832.2  | 804.4  | 768.9 | 737.9 | 719.9 | 541.7 |
| 17.5° | 973.6  | 968.4  | 961.3  | 953.6  | 939.4  | 917.4  | 889.0  | 851.6 | 812.2 | 761.2 | 522.9 |
| 20°   | 991.0  | 988.4  | 983.3  | 980.0  | 970.3  | 954.9  | 935.5  | 906.4 | 869.6 | 819.3 | 493.9 |
| 22.5° | 983.9  | 985.8  | 988.4  | 996.8  | 998.1  | 987.1  | 969.1  | 941.3 | 903.9 | 857.4 | 449.3 |
| 25°   | 983.9  | 982.6  | 982.6  | 1000.0 | 1011.0 | 1005.9 | 992.9  | 967.8 | 929.7 | 876.7 | 394.5 |
| 27.5° | 1009.1 | 1001.3 | 985.2  | 1003.3 | 1021.4 | 1019.4 | 1007.8 | 978.1 | 935.5 | 877.4 | 327.3 |
| 30°   | 1050.4 | 1033.6 | 1007.1 | 1023.9 | 1040.7 | 1033.6 | 1014.9 | 976.8 | 922.6 | 849.0 | 245.3 |
| 32.5° | 1096.2 | 1088.5 | 1074.9 | 1085.9 | 1083.3 | 1054.9 | 1021.4 | 968.4 | 896.1 | 792.2 | 165.3 |
| 35°   | 1110.4 | 1111.7 | 1102.7 | 1100.8 | 1085.9 | 1056.9 | 1021.4 | 944.5 | 840.6 | 697.3 | 98.1  |
| 37.5° | 1115.0 | 1115.6 | 1101.4 | 1083.3 | 1061.4 | 1027.2 | 984.6  | 895.5 | 737.9 | 605.6 | 52.3  |
| 40°   | 1092.4 | 1091.7 | 1068.5 | 1046.5 | 1022.0 | 988.4  | 926.4  | 792.2 | 640.4 | 524.9 | 18.7  |
| 42.5° | 1058.8 | 1050.4 | 1028.5 | 1001.3 | 971.6  | 929.7  | 832.8  | 668.9 | 556.5 | 420.3 | 1.3   |
| 45°   | 985.8  | 978.1  | 960.7  | 931.6  | 898.7  | 839.3  | 686.3  | 574.6 | 452.6 | 306.0 | 0.0   |
| 47.5° | 749.6  | 745.7  | 763.8  | 767.6  | 767.0  | 699.2  | 572.7  | 468.7 | 332.5 | 178.2 | 0.0   |
| 50°   | 682.4  | 677.2  | 659.2  | 635.9  | 594.6  | 537.8  | 459.0  | 347.3 | 195.0 | 56.8  | 0.0   |
| 52.5° | 490.0  | 506.8  | 510.7  | 493.2  | 454.5  | 398.3  | 316.3  | 200.1 | 67.8  | 0.0   | 0.0   |
| 55°   | 199.5  | 189.2  | 196.9  | 206.6  | 214.3  | 196.9  | 145.9  | 71.0  | 0.6   | 0.0   | 0.0   |
| 57.5° | 0.0    | 0.6    | 3.9    | 9.0    | 14.8   | 18.7   | 20.0   | 1.3   | 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   | 0.6   |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.6   | 0.6   |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6    | 0.0   | 0.6   | 0.6   | 0.6   |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.6   | 0.6   | 0.6   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6   | 0.6   | 0.6   | 0.6   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.6   | 0.6   | 0.6   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6   | 0.6   | 0.6   | 0.6   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6    | 0.6   | 0.6   | 0.6   | 0.6   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6    | 0.6   | 0.6   | 0.6   | 1.3   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6    | 0.6   | 0.6   | 0.6   | 1.3   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6   | 0.6   | 0.6   | 0.6   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6   | 0.6   | 0.6   | 0.6   |
| 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):**

|       | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|--------|-------|--------|-------|
| 0°    | 371.2 | 371.2  | 371.2 | 371.2  | 371.2 |
| 2.5°  | 372.5 | 315.1  | 259.5 | 229.2  | 214.3 |
| 5°    | 359.0 | 240.8  | 149.1 | 103.3  | 85.9  |
| 7.5°  | 336.4 | 165.3  | 59.4  | 24.5   | 17.4  |
| 10°   | 303.4 | 94.9   | 16.1  | 6.5    | 5.8   |
| 12.5° | 256.3 | 43.3   | 5.8   | 4.5    | 4.5   |
| 15°   | 204.0 | 14.8   | 3.2   | 2.6    | 1.9   |
| 17.5° | 143.3 | 3.9    | 1.3   | 0.0    | 0.0   |
| 20°   | 87.2  | 0.6    | 0.0   | 0.0    | 0.0   |
| 22.5° | 48.4  | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 23.9  | 0.0    | 0.0   | 0.0    | 0.0   |
| 27.5° | 10.3  | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 3.2   | 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° | 0.6   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.6   | 0.6    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.6   | 0.6    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.6   | 0.6    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.6   | 0.6    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.6   | 0.6    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.3   | 0.6    | 0.6   | 0.0    | 0.0   |
| 80°   | 1.3   | 0.6    | 0.6   | 0.0    | 0.0   |
| 82.5° | 1.3   | 0.6    | 0.6   | 0.0    | 0.0   |
| 85°   | 0.6   | 0.6    | 0.6   | 0.0    | 0.0   |
| 87.5° | 1.3   | 0.6    | 0.6   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)