

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: P1307738

Luminaire Tested: P3SQAS05R559030DE010 E3SQCA301MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307738  
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: P3SQAS05R559030DE010 E3SQCA301MB  
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 90CRI , E3SQCA301MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

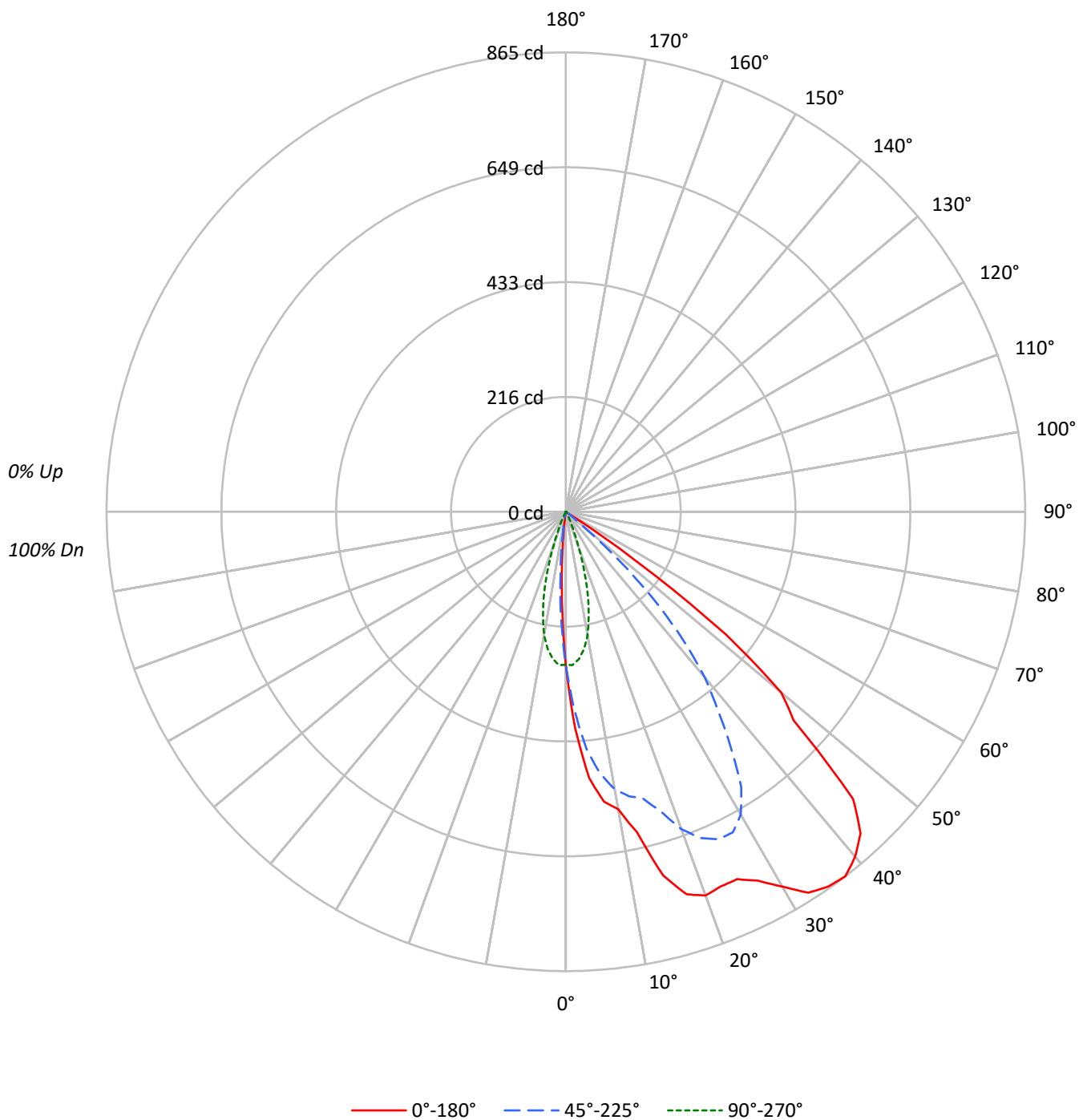
Lumens per Lamp: N/A  
Luminaire Lumens: 533.0 lumens  
Efficiency: N/A  
Efficacy: 74.0 lumens/watt  
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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   | 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°  | 49600  | 49600  | 49600 | 49600 | 49600 |
| 5°  | 86942  | 77502  | 48147 | 20002 | 11514 |
| 10° | 99506  | 92756  | 41167 | 2186  | 787   |
| 15° | 126467 | 99579  | 28225 | 446   | 267   |
| 20° | 140921 | 116490 | 12389 | 0     | 0     |
| 25° | 145066 | 129256 | 3515  | 0     | 0     |
| 30° | 162056 | 130993 | 497   | 0     | 0     |
| 35° | 181126 | 113743 | 0     | 0     | 0     |
| 40° | 190536 | 91547  | 0     | 0     | 0     |
| 45° | 186299 | 57821  | 0     | 0     | 0     |
| 50° | 141843 | 11816  | 0     | 0     | 0     |
| 55° | 46480  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 0     | 0     | 0     |
| 65° | 0      | 204    | 204   | 0     | 0     |
| 70° | 0      | 252    | 252   | 0     | 0     |
| 75° | 0      | 333    | 333   | 0     | 0     |
| 80° | 0      | 496    | 992   | 496   | 0     |
| 85° | 0      | 988    | 988   | 988   | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 186299 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 26.3   | 4.9       |
| 10°-20°   | 77.1   | 14.5      |
| 20°-30°   | 125.4  | 23.5      |
| 30°-40°   | 149.0  | 28.0      |
| 40°-50°   | 121.9  | 22.9      |
| 50°-60°   | 32.3   | 6.1       |
| 60°-70°   | 0.2    | 0.0       |
| 70°-80°   | 0.3    | 0.1       |
| 80°-90°   | 0.4    | 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°    | 228.8  | 42.9      |
| 0°-40°    | 377.9  | 70.9      |
| 0°-60°    | 532.1  | 99.8      |
| 0°-90°    | 533.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 533.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 288 | 288 | 288 | 288  | 288  |      |
| 5°  | 503 | 448 | 278 | 116  | 67   | 49   |
| 15° | 709 | 558 | 158 | 2    | 2    | 198  |
| 25° | 763 | 680 | 18  | 0    | 0    | 359  |
| 35° | 862 | 541 | 0   | 0    | 0    | 536  |
| 45° | 765 | 237 | 0   | 0    | 0    | 549  |
| 55° | 155 | 0   | 0   | 0    | 0    | 174  |
| 65° | 0   | 0   | 0   | 0    | 0    | 0    |
| 75° | 0   | 0   | 0   | 0    | 0    | 0    |
| 85° | 0   | 0   | 0   | 0    | 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°    | 288.0 | 288.0 | 288.0 | 288.0 | 288.0 | 288.0 | 288.0 | 288.0 | 288.0 | 288.0 | 288.0 |
| 2.5°  | 408.7 | 405.7 | 406.2 | 404.7 | 406.2 | 399.7 | 392.7 | 386.2 | 381.2 | 374.2 | 331.6 |
| 5°    | 502.9 | 497.9 | 496.4 | 494.4 | 492.4 | 484.4 | 477.8 | 469.8 | 460.3 | 448.3 | 370.2 |
| 7.5°  | 550.5 | 546.5 | 544.5 | 545.5 | 541.0 | 538.0 | 529.4 | 520.4 | 510.4 | 497.4 | 399.2 |
| 10°   | 569.0 | 565.0 | 564.5 | 564.0 | 563.5 | 561.5 | 557.5 | 549.5 | 540.5 | 530.4 | 415.7 |
| 12.5° | 617.6 | 608.6 | 602.6 | 595.6 | 587.0 | 576.0 | 567.0 | 560.0 | 556.5 | 548.5 | 423.2 |
| 15°   | 709.3 | 700.7 | 694.2 | 685.2 | 669.2 | 645.6 | 624.1 | 596.6 | 572.5 | 558.5 | 420.2 |
| 17.5° | 755.3 | 751.3 | 745.8 | 739.8 | 728.8 | 711.8 | 689.7 | 660.7 | 630.1 | 590.5 | 405.7 |
| 20°   | 768.9 | 766.9 | 762.9 | 760.3 | 752.8 | 740.8 | 725.8 | 703.2 | 674.7 | 635.6 | 383.2 |
| 22.5° | 763.4 | 764.9 | 766.9 | 773.4 | 774.4 | 765.9 | 751.8 | 730.3 | 701.2 | 665.2 | 348.6 |
| 25°   | 763.4 | 762.3 | 762.3 | 775.9 | 784.4 | 780.4 | 770.4 | 750.8 | 721.3 | 680.2 | 306.0 |
| 27.5° | 782.9 | 776.9 | 764.4 | 778.4 | 792.4 | 790.9 | 781.9 | 758.8 | 725.8 | 680.7 | 253.9 |
| 30°   | 814.9 | 801.9 | 781.4 | 794.4 | 807.4 | 801.9 | 787.4 | 757.8 | 715.8 | 658.7 | 190.3 |
| 32.5° | 850.5 | 844.5 | 834.0 | 842.5 | 840.5 | 818.4 | 792.4 | 751.3 | 695.2 | 614.6 | 128.2 |
| 35°   | 861.5 | 862.5 | 855.5 | 854.0 | 842.5 | 820.0 | 792.4 | 732.8 | 652.2 | 541.0 | 76.1  |
| 37.5° | 865.0 | 865.5 | 854.5 | 840.5 | 823.5 | 796.9 | 763.9 | 694.7 | 572.5 | 469.8 | 40.6  |
| 40°   | 847.5 | 847.0 | 829.0 | 811.9 | 792.9 | 766.9 | 718.8 | 614.6 | 496.9 | 407.2 | 14.5  |
| 42.5° | 821.5 | 814.9 | 797.9 | 776.9 | 753.8 | 721.3 | 646.1 | 518.9 | 431.8 | 326.1 | 1.0   |
| 45°   | 764.9 | 758.8 | 745.3 | 722.8 | 697.2 | 651.2 | 532.4 | 445.8 | 351.1 | 237.4 | 0.0   |
| 47.5° | 581.5 | 578.5 | 592.5 | 595.6 | 595.1 | 542.5 | 444.3 | 363.6 | 258.0 | 138.2 | 0.0   |
| 50°   | 529.4 | 525.4 | 511.4 | 493.4 | 461.3 | 417.2 | 356.1 | 269.5 | 151.3 | 44.1  | 0.0   |
| 52.5° | 380.2 | 393.2 | 396.2 | 382.7 | 352.6 | 309.0 | 245.4 | 155.3 | 52.6  | 0.0   | 0.0   |
| 55°   | 154.8 | 146.8 | 152.8 | 160.3 | 166.3 | 152.8 | 113.2 | 55.1  | 0.5   | 0.0   | 0.0   |
| 57.5° | 0.0   | 0.5   | 3.0   | 7.0   | 11.5  | 14.5  | 15.5  | 1.0   | 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   | 0.5   |
| 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   |
| 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.0   | 0.5   | 0.5   | 0.5   |
| 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   | 1.0   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   | 1.0   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   |
| 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°    | 288.0 | 288.0  | 288.0 | 288.0  | 288.0 |
| 2.5°  | 289.0 | 244.4  | 201.4 | 177.8  | 166.3 |
| 5°    | 278.5 | 186.8  | 115.7 | 80.1   | 66.6  |
| 7.5°  | 261.0 | 128.2  | 46.1  | 19.0   | 13.5  |
| 10°   | 235.4 | 73.6   | 12.5  | 5.0    | 4.5   |
| 12.5° | 198.9 | 33.6   | 4.5   | 3.5    | 3.5   |
| 15°   | 158.3 | 11.5   | 2.5   | 2.0    | 1.5   |
| 17.5° | 111.2 | 3.0    | 1.0   | 0.0    | 0.0   |
| 20°   | 67.6  | 0.5    | 0.0   | 0.0    | 0.0   |
| 22.5° | 37.6  | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 18.5  | 0.0    | 0.0   | 0.0    | 0.0   |
| 27.5° | 8.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 2.5   | 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° | 0.5   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.5   | 0.5    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.5   | 0.5    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.5   | 0.5    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.5   | 0.5    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.5   | 0.5    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.0   | 0.5    | 0.5   | 0.0    | 0.0   |
| 80°   | 1.0   | 0.5    | 0.5   | 0.0    | 0.0   |
| 82.5° | 1.0   | 0.5    | 0.5   | 0.0    | 0.0   |
| 85°   | 0.5   | 0.5    | 0.5   | 0.0    | 0.0   |
| 87.5° | 1.0   | 0.5    | 0.5   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)