

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: P1312948

Luminaire Tested: P3SQAS02R409730DE010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312948  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS02R409730DE010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 97CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

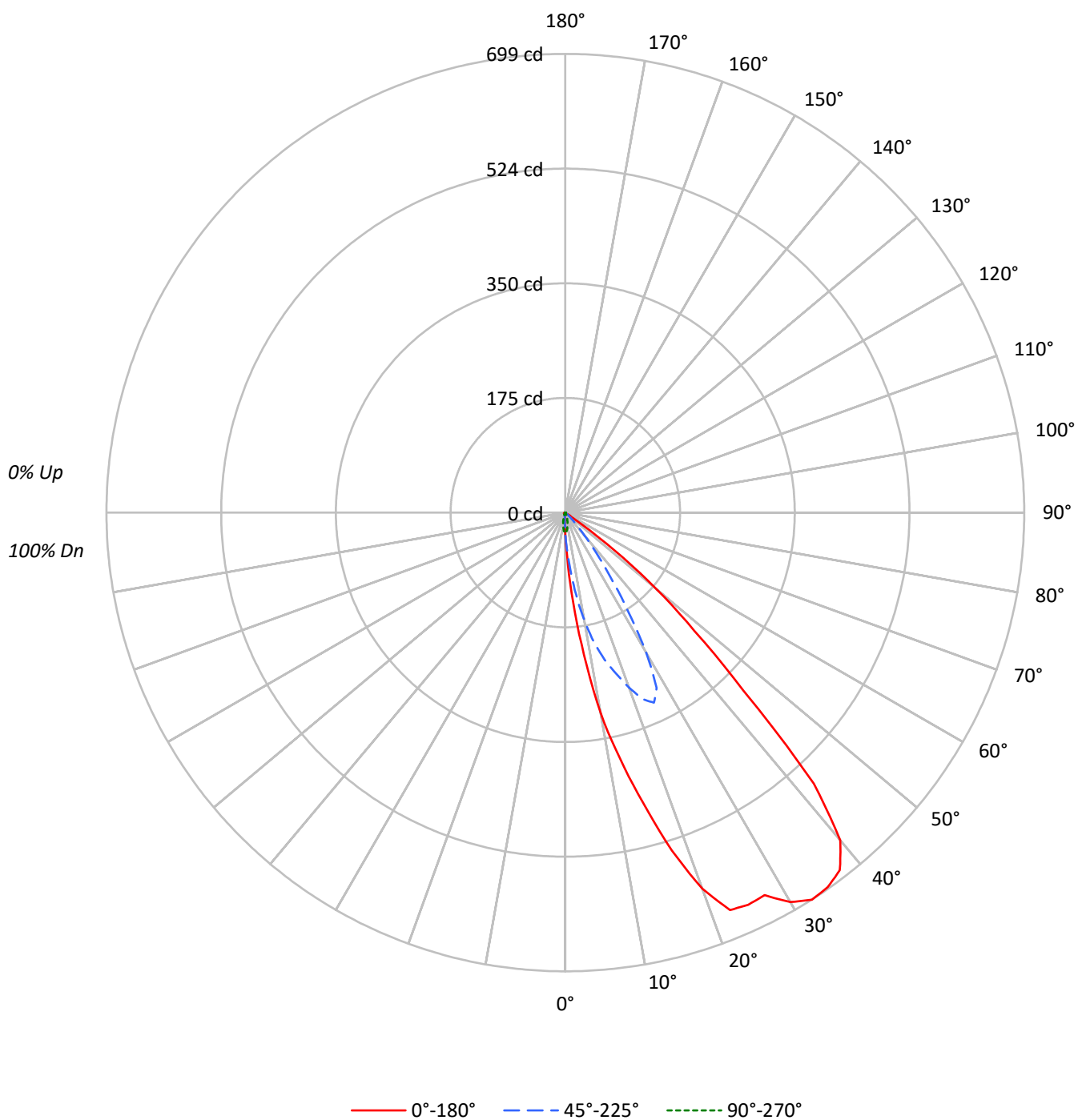
Lumens per Lamp: N/A  
Luminaire Lumens: 258.0 lumens  
Efficiency: N/A  
Efficacy: 71.7 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 |
| 1   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  | 91  |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 82  | 82  |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 74  | 74  |
| 4   | 92  | 83  | 77  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 78  | 73  | 69  | 76  | 72  | 68  | 67  | 67  |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 64  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 60  | 60  |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 60  | 56  | 54  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 52  | 62  | 56  | 51  | 61  | 55  | 51  | 59  | 54  | 51  | 49  | 49  |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  | 44  |
| 9   | 66  | 54  | 47  | 42  | 65  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  | 40  |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 37  | 37  |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 5253   | 5253  | 5253 | 5253 | 5253 |
| 5°  | 23719  | 15110 | 4720 | 1815 | 1314 |
| 10° | 54370  | 29205 | 3323 | 647  | 490  |
| 15° | 81607  | 41436 | 2068 | 357  | 303  |
| 20° | 111743 | 51959 | 1191 | 202  | 238  |
| 25° | 125266 | 60714 | 627  | 171  | 209  |
| 30° | 136243 | 49000 | 259  | 139  | 219  |
| 35° | 146436 | 25082 | 84   | 189  | 273  |
| 40° | 146493 | 10005 | 45   | 202  | 337  |
| 45° | 93527  | 3337  | 97   | 317  | 487  |
| 50° | 48549  | 402   | 188  | 402  | 589  |
| 55° | 4204   | 60    | 210  | 510  | 721  |
| 60° | 138    | 69    | 241  | 586  | 827  |
| 65° | 163    | 82    | 367  | 611  | 897  |
| 70° | 101    | 101   | 453  | 655  | 856  |
| 75° | 133    | 133   | 466  | 732  | 998  |
| 80° | 198    | 198   | 694  | 694  | 893  |
| 85° | 0      | 395   | 1383 | 790  | 790  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 93527 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.9    | 2.3       |
| 10°-20°   | 34.9   | 13.5      |
| 20°-30°   | 76.5   | 29.6      |
| 30°-40°   | 87.1   | 33.8      |
| 40°-50°   | 46.0   | 17.8      |
| 50°-60°   | 5.4    | 2.1       |
| 60°-70°   | 1.0    | 0.4       |
| 70°-80°   | 0.8    | 0.3       |
| 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°    | 117.3  | 45.5      |
| 0°-40°    | 204.5  | 79.3      |
| 0°-60°    | 255.9  | 99.2      |
| 0°-90°    | 258.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 258.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 30  | 30  | 30  | 30   | 30   |      |
| 5°  | 137 | 87  | 27  | 10   | 8    | 18   |
| 15° | 458 | 232 | 12  | 2    | 2    | 135  |
| 25° | 659 | 320 | 3   | 1    | 1    | 304  |
| 35° | 696 | 119 | 0   | 1    | 1    | 432  |
| 45° | 384 | 14  | 0   | 1    | 2    | 310  |
| 55° | 14  | 0   | 1   | 2    | 2    | 43   |
| 65° | 0   | 0   | 1   | 2    | 2    | 0    |
| 75° | 0   | 0   | 1   | 1    | 2    | 0    |
| 85° | 0   | 0   | 1   | 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°    | 30.5  | 30.5  | 30.5  | 30.5  | 30.5  | 30.5  | 30.5  | 30.5  | 30.5  | 30.5  | 30.5  |
| 2.5°  | 68.0  | 68.0  | 67.8  | 65.9  | 65.6  | 65.4  | 61.9  | 61.1  | 56.9  | 54.1  | 41.2  |
| 5°    | 137.2 | 134.1 | 133.9 | 130.4 | 124.5 | 116.7 | 111.6 | 103.6 | 95.7  | 87.4  | 50.8  |
| 7.5°  | 218.5 | 221.1 | 213.9 | 210.2 | 197.1 | 187.7 | 173.4 | 160.7 | 143.0 | 126.5 | 58.7  |
| 10°   | 310.9 | 306.4 | 299.2 | 292.0 | 277.8 | 261.0 | 239.6 | 217.2 | 191.7 | 167.0 | 63.0  |
| 12.5° | 383.1 | 377.2 | 372.9 | 363.1 | 349.1 | 327.5 | 302.0 | 271.9 | 238.1 | 202.6 | 62.8  |
| 15°   | 457.7 | 451.8 | 442.0 | 433.3 | 412.6 | 388.4 | 360.7 | 321.0 | 279.5 | 232.4 | 58.2  |
| 17.5° | 539.7 | 532.1 | 521.2 | 507.9 | 487.8 | 461.0 | 425.9 | 377.5 | 318.8 | 256.9 | 49.9  |
| 20°   | 609.7 | 605.1 | 594.2 | 578.5 | 558.9 | 532.7 | 492.2 | 438.5 | 367.0 | 283.5 | 39.7  |
| 22.5° | 655.5 | 651.3 | 643.9 | 630.2 | 615.4 | 587.4 | 550.4 | 491.5 | 407.3 | 307.7 | 30.1  |
| 25°   | 659.2 | 657.4 | 655.5 | 650.9 | 642.0 | 622.1 | 585.9 | 522.5 | 432.4 | 319.5 | 22.2  |
| 27.5° | 657.2 | 656.6 | 656.1 | 653.7 | 647.8 | 628.2 | 591.2 | 527.0 | 429.1 | 301.1 | 16.4  |
| 30°   | 685.1 | 683.2 | 682.1 | 674.2 | 658.8 | 628.4 | 580.0 | 502.4 | 381.4 | 246.4 | 11.8  |
| 32.5° | 699.3 | 698.9 | 697.8 | 690.2 | 668.3 | 628.9 | 561.3 | 442.9 | 302.4 | 177.9 | 8.1   |
| 35°   | 696.5 | 694.3 | 690.4 | 676.2 | 645.9 | 596.4 | 500.7 | 353.7 | 218.3 | 119.3 | 5.2   |
| 37.5° | 686.9 | 681.9 | 674.2 | 648.7 | 608.4 | 540.8 | 406.0 | 260.4 | 148.5 | 77.2  | 3.1   |
| 40°   | 651.6 | 644.8 | 632.8 | 601.6 | 548.6 | 445.7 | 300.3 | 176.0 | 97.5  | 44.5  | 0.9   |
| 42.5° | 560.2 | 551.5 | 542.7 | 507.9 | 447.2 | 332.3 | 197.6 | 108.8 | 55.6  | 24.4  | 0.2   |
| 45°   | 384.0 | 373.1 | 361.1 | 335.8 | 287.2 | 201.3 | 117.5 | 61.3  | 28.8  | 13.7  | 0.2   |
| 47.5° | 266.7 | 261.7 | 240.7 | 208.5 | 159.8 | 106.6 | 60.8  | 30.1  | 15.3  | 6.3   | 0.2   |
| 50°   | 181.2 | 175.5 | 151.1 | 119.9 | 85.0  | 51.0  | 27.9  | 15.0  | 6.8   | 1.5   | 0.2   |
| 52.5° | 95.1  | 88.1  | 72.6  | 55.4  | 34.5  | 21.4  | 12.2  | 6.5   | 2.0   | 0.2   | 0.2   |
| 55°   | 14.0  | 12.9  | 10.5  | 8.5   | 7.6   | 5.9   | 3.5   | 1.5   | 0.2   | 0.2   | 0.4   |
| 57.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.7   | 0.7   | 0.4   | 0.2   | 0.2   | 0.2   | 0.4   |
| 60°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   |
| 62.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   |
| 65°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   |
| 67.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   | 0.7   |
| 70°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.7   |
| 72.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   | 0.7   |
| 75°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.7   |
| 77.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   | 0.7   |
| 80°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.7   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.4   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.4   |
| 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°    | 30.5 | 30.5   | 30.5 | 30.5   | 30.5 |
| 2.5°  | 30.1 | 22.2   | 17.2 | 14.8   | 14.6 |
| 5°    | 27.3 | 15.9   | 10.5 | 8.1    | 7.6  |
| 7.5°  | 23.1 | 11.1   | 6.1  | 4.4    | 4.1  |
| 10°   | 19.0 | 7.6    | 3.7  | 3.1    | 2.8  |
| 12.5° | 15.0 | 5.0    | 2.6  | 2.4    | 2.2  |
| 15°   | 11.6 | 3.3    | 2.0  | 1.7    | 1.7  |
| 17.5° | 8.7  | 2.2    | 1.5  | 1.5    | 1.5  |
| 20°   | 6.5  | 1.5    | 1.1  | 1.3    | 1.3  |
| 22.5° | 4.6  | 1.1    | 0.9  | 1.1    | 1.1  |
| 25°   | 3.3  | 0.9    | 0.9  | 1.1    | 1.1  |
| 27.5° | 2.2  | 0.7    | 0.7  | 0.9    | 1.1  |
| 30°   | 1.3  | 0.4    | 0.7  | 0.9    | 1.1  |
| 32.5° | 0.7  | 0.4    | 0.7  | 1.1    | 1.1  |
| 35°   | 0.4  | 0.7    | 0.9  | 1.1    | 1.3  |
| 37.5° | 0.2  | 0.7    | 0.9  | 1.3    | 1.3  |
| 40°   | 0.2  | 0.7    | 0.9  | 1.3    | 1.5  |
| 42.5° | 0.4  | 0.9    | 1.1  | 1.5    | 1.7  |
| 45°   | 0.4  | 0.9    | 1.3  | 1.7    | 2.0  |
| 47.5° | 0.4  | 0.9    | 1.5  | 2.0    | 2.0  |
| 50°   | 0.7  | 1.1    | 1.5  | 2.0    | 2.2  |
| 52.5° | 0.7  | 1.1    | 1.5  | 2.2    | 2.4  |
| 55°   | 0.7  | 1.1    | 1.7  | 2.2    | 2.4  |
| 57.5° | 0.7  | 1.3    | 1.7  | 2.2    | 2.4  |
| 60°   | 0.7  | 1.1    | 1.7  | 2.2    | 2.4  |
| 62.5° | 0.9  | 1.1    | 1.5  | 2.2    | 2.2  |
| 65°   | 0.9  | 1.1    | 1.5  | 2.2    | 2.2  |
| 67.5° | 0.9  | 1.1    | 1.5  | 2.0    | 2.0  |
| 70°   | 0.9  | 1.1    | 1.3  | 1.7    | 1.7  |
| 72.5° | 0.9  | 1.1    | 1.3  | 1.5    | 1.7  |
| 75°   | 0.7  | 0.9    | 1.1  | 1.3    | 1.5  |
| 77.5° | 0.7  | 0.9    | 0.9  | 1.3    | 1.3  |
| 80°   | 0.7  | 0.7    | 0.7  | 0.9    | 0.9  |
| 82.5° | 0.7  | 0.7    | 0.4  | 0.7    | 0.7  |
| 85°   | 0.7  | 0.4    | 0.4  | 0.4    | 0.4  |
| 87.5° | 0.4  | 0.4    | 0.2  | 0.2    | 0.2  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)