

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: P1308689

Luminaire Tested: P3SQAS02R559035DE010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308689  
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: P3SQAS02R559035DE010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 90CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

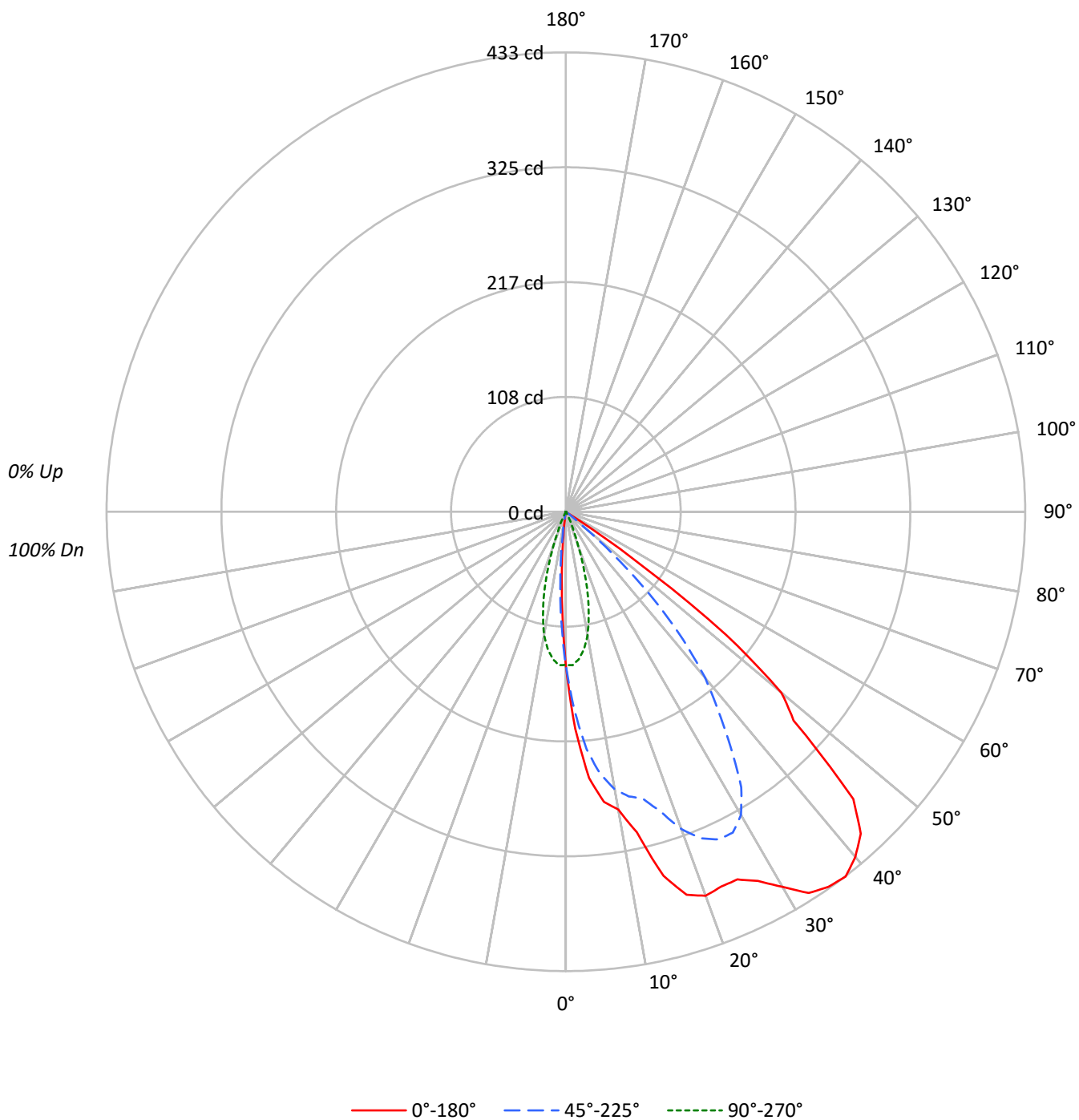
Lumens per Lamp: N/A  
Luminaire Lumens: 267.1 lumens  
Efficiency: N/A  
Efficacy: 74.2 lumens/watt  
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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 | 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  | 63  | 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  | 45  | 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°  | 24852 | 24852 | 24852 | 24852 | 24852 |
| 5°  | 43549 | 38829 | 24117 | 10027 | 5774  |
| 10° | 49841 | 46465 | 20618 | 1102  | 402   |
| 15° | 63349 | 49888 | 14139 | 232   | 143   |
| 20° | 70598 | 58355 | 6213  | 0     | 0     |
| 25° | 72666 | 64742 | 1767  | 0     | 0     |
| 30° | 81177 | 65626 | 259   | 0     | 0     |
| 35° | 90742 | 56976 | 0     | 0     | 0     |
| 40° | 95436 | 45863 | 0     | 0     | 0     |
| 45° | 93308 | 28959 | 0     | 0     | 0     |
| 50° | 71055 | 5921  | 0     | 0     | 0     |
| 55° | 23270 | 0     | 0     | 0     | 0     |
| 60° | 0     | 0     | 0     | 0     | 0     |
| 65° | 0     | 122   | 122   | 0     | 0     |
| 70° | 0     | 151   | 151   | 0     | 0     |
| 75° | 0     | 200   | 200   | 0     | 0     |
| 80° | 0     | 298   | 496   | 298   | 0     |
| 85° | 0     | 593   | 593   | 593   | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 93308 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 13.2   | 4.9       |
| 10°-20°   | 38.6   | 14.5      |
| 20°-30°   | 62.8   | 23.5      |
| 30°-40°   | 74.7   | 28.0      |
| 40°-50°   | 61.1   | 22.9      |
| 50°-60°   | 16.2   | 6.1       |
| 60°-70°   | 0.1    | 0.0       |
| 70°-80°   | 0.2    | 0.1       |
| 80°-90°   | 0.2    | 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°    | 114.6  | 42.9      |
| 0°-40°    | 189.3  | 70.9      |
| 0°-60°    | 266.5  | 99.8      |
| 0°-90°    | 267.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 267.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 144 | 144 | 144 | 144  | 144  |      |
| 5°  | 252 | 225 | 140 | 58   | 33   | 25   |
| 15° | 355 | 280 | 79  | 1    | 1    | 99   |
| 25° | 382 | 341 | 9   | 0    | 0    | 180  |
| 35° | 432 | 271 | 0   | 0    | 0    | 268  |
| 45° | 383 | 119 | 0   | 0    | 0    | 275  |
| 55° | 78  | 0   | 0   | 0    | 0    | 87   |
| 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°    | 144.3 | 144.3 | 144.3 | 144.3 | 144.3 | 144.3 | 144.3 | 144.3 | 144.3 | 144.3 | 144.3 |
| 2.5°  | 204.7 | 203.2 | 203.5 | 202.7 | 203.5 | 200.2 | 196.7 | 193.5 | 190.9 | 187.4 | 166.1 |
| 5°    | 251.9 | 249.4 | 248.7 | 247.7 | 246.6 | 242.6 | 239.4 | 235.4 | 230.6 | 224.6 | 185.4 |
| 7.5°  | 275.8 | 273.7 | 272.7 | 273.2 | 271.0 | 269.5 | 265.2 | 260.7 | 255.7 | 249.2 | 200.0 |
| 10°   | 285.0 | 283.0 | 282.8 | 282.5 | 282.3 | 281.3 | 279.3 | 275.3 | 270.7 | 265.7 | 208.3 |
| 12.5° | 309.4 | 304.9 | 301.8 | 298.3 | 294.1 | 288.6 | 284.0 | 280.5 | 278.8 | 274.8 | 212.0 |
| 15°   | 355.3 | 351.0 | 347.8 | 343.2 | 335.2 | 323.4 | 312.6 | 298.8 | 286.8 | 279.8 | 210.5 |
| 17.5° | 378.4 | 376.4 | 373.6 | 370.6 | 365.1 | 356.5 | 345.5 | 331.0 | 315.6 | 295.8 | 203.2 |
| 20°   | 385.2 | 384.1 | 382.1 | 380.9 | 377.1 | 371.1 | 363.6 | 352.3 | 338.0 | 318.4 | 191.9 |
| 22.5° | 382.4 | 383.1 | 384.1 | 387.4 | 387.9 | 383.6 | 376.6 | 365.8 | 351.3 | 333.2 | 174.6 |
| 25°   | 382.4 | 381.9 | 381.9 | 388.7 | 392.9 | 390.9 | 385.9 | 376.1 | 361.3 | 340.7 | 153.3 |
| 27.5° | 392.2 | 389.2 | 382.9 | 389.9 | 396.9 | 396.2 | 391.7 | 380.1 | 363.6 | 341.0 | 127.2 |
| 30°   | 408.2 | 401.7 | 391.4 | 397.9 | 404.5 | 401.7 | 394.4 | 379.6 | 358.6 | 330.0 | 95.3  |
| 32.5° | 426.1 | 423.0 | 417.8 | 422.0 | 421.0 | 410.0 | 396.9 | 376.4 | 348.3 | 307.9 | 64.2  |
| 35°   | 431.6 | 432.1 | 428.6 | 427.8 | 422.0 | 410.7 | 396.9 | 367.1 | 326.7 | 271.0 | 38.1  |
| 37.5° | 433.3 | 433.6 | 428.1 | 421.0 | 412.5 | 399.2 | 382.6 | 348.0 | 286.8 | 235.4 | 20.3  |
| 40°   | 424.5 | 424.3 | 415.3 | 406.7 | 397.2 | 384.1 | 360.1 | 307.9 | 248.9 | 204.0 | 7.3   |
| 42.5° | 411.5 | 408.2 | 399.7 | 389.2 | 377.6 | 361.3 | 323.7 | 259.9 | 216.3 | 163.3 | 0.5   |
| 45°   | 383.1 | 380.1 | 373.4 | 362.1 | 349.3 | 326.2 | 266.7 | 223.3 | 175.9 | 118.9 | 0.0   |
| 47.5° | 291.3 | 289.8 | 296.8 | 298.3 | 298.1 | 271.7 | 222.6 | 182.2 | 129.2 | 69.3  | 0.0   |
| 50°   | 265.2 | 263.2 | 256.2 | 247.1 | 231.1 | 209.0 | 178.4 | 135.0 | 75.8  | 22.1  | 0.0   |
| 52.5° | 190.4 | 197.0 | 198.5 | 191.7 | 176.6 | 154.8 | 122.9 | 77.8  | 26.3  | 0.0   | 0.0   |
| 55°   | 77.5  | 73.5  | 76.5  | 80.3  | 83.3  | 76.5  | 56.7  | 27.6  | 0.3   | 0.0   | 0.0   |
| 57.5° | 0.0   | 0.3   | 1.5   | 3.5   | 5.8   | 7.3   | 7.8   | 0.5   | 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   | 0.3   |
| 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   |
| 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.0   | 0.3   | 0.3   | 0.3   |
| 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   | 0.3   |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   | 0.3   | 0.3   |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   | 0.3   |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   | 0.3   | 0.3   |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   | 0.3   | 0.3   | 0.5   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   | 0.3   | 0.3   | 0.5   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   | 0.3   | 0.3   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   | 0.3   | 0.3   |
| 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°    | 144.3 | 144.3  | 144.3 | 144.3  | 144.3 |
| 2.5°  | 144.8 | 122.4  | 100.9 | 89.1   | 83.3  |
| 5°    | 139.5 | 93.6   | 58.0  | 40.1   | 33.4  |
| 7.5°  | 130.7 | 64.2   | 23.1  | 9.5    | 6.8   |
| 10°   | 117.9 | 36.9   | 6.3   | 2.5    | 2.3   |
| 12.5° | 99.6  | 16.8   | 2.3   | 1.8    | 1.8   |
| 15°   | 79.3  | 5.8    | 1.3   | 1.0    | 0.8   |
| 17.5° | 55.7  | 1.5    | 0.5   | 0.0    | 0.0   |
| 20°   | 33.9  | 0.3    | 0.0   | 0.0    | 0.0   |
| 22.5° | 18.8  | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 9.3   | 0.0    | 0.0   | 0.0    | 0.0   |
| 27.5° | 4.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 1.3   | 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° | 0.3   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.3   | 0.3    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.3   | 0.3    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.3   | 0.3    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.3   | 0.3    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.3   | 0.3    | 0.0   | 0.0    | 0.0   |
| 77.5° | 0.5   | 0.3    | 0.3   | 0.0    | 0.0   |
| 80°   | 0.5   | 0.3    | 0.3   | 0.0    | 0.0   |
| 82.5° | 0.5   | 0.3    | 0.3   | 0.0    | 0.0   |
| 85°   | 0.3   | 0.3    | 0.3   | 0.0    | 0.0   |
| 87.5° | 0.5   | 0.3    | 0.3   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)