

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: P1311983

Luminaire Tested: P3SQAS02R459727DE010 E3SQCA301MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311983  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS02R459727DE010 E3SQCA301MB  
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 97CRI , E3SQCA301MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

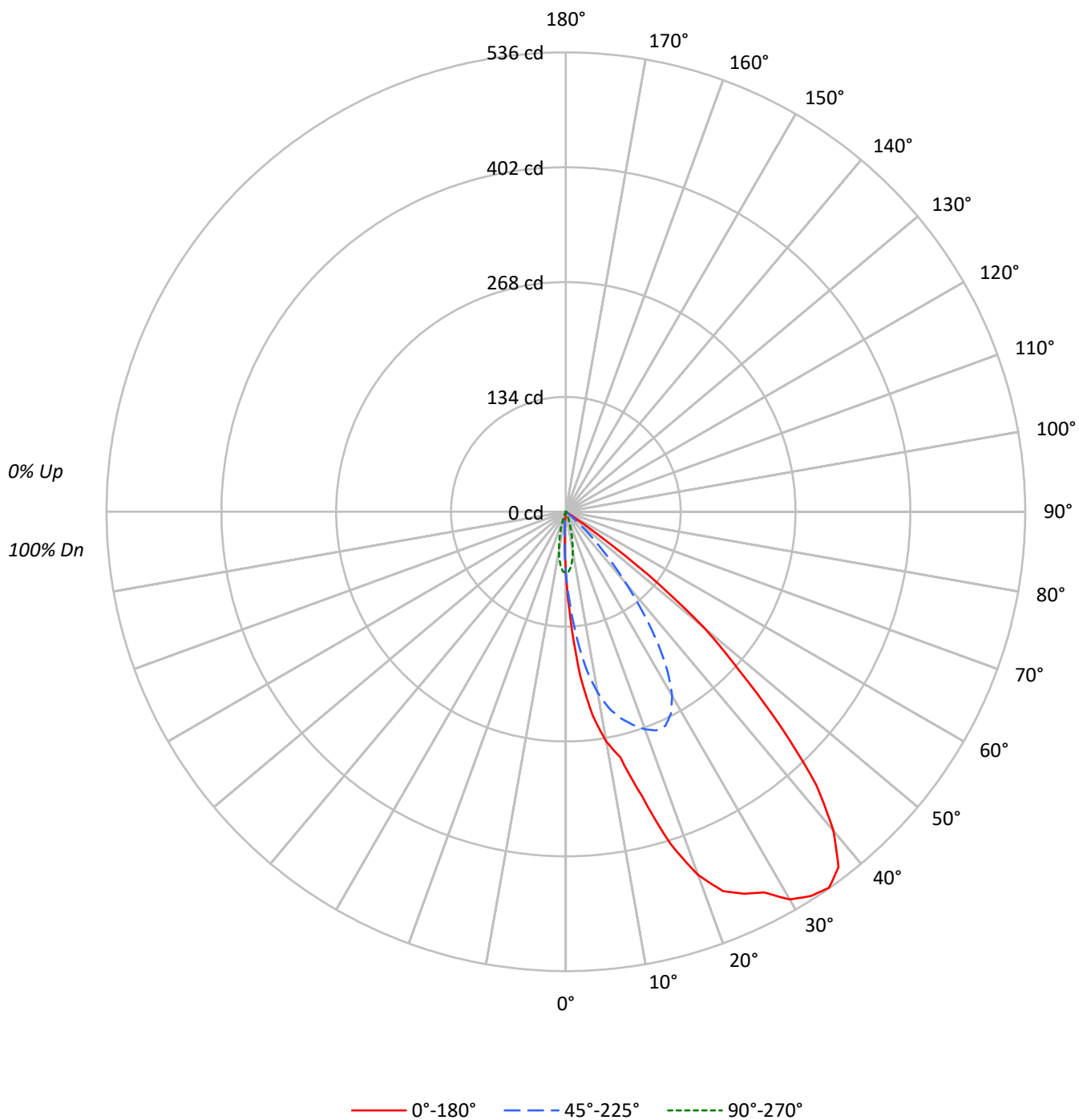
Lumens per Lamp: N/A  
Luminaire Lumens: 227.0 lumens  
Efficiency: N/A  
Efficacy: 63.1 lumens/watt  
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1311983

CATALOG NUMBER: P3SQAS02R459727DE010 E3SQCA301MB

### 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  | 98  | 96  |  | 96  | 94  | 93  | 91  |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  |  | 92  | 89  | 86  |  | 89  | 86  | 84  | 82  |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  |  | 84  | 80  | 77  |  | 82  | 79  | 76  | 74  |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  |  | 77  | 73  | 69  |  | 76  | 72  | 68  | 67  |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 63  | 73  | 67  | 63  |  | 71  | 66  | 62  |  | 70  | 65  | 62  | 60  |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  |  | 66  | 60  | 56  |  | 64  | 59  | 56  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 51  | 62  | 56  | 51  |  | 61  | 55  | 51  |  | 59  | 54  | 51  | 49  |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  |  | 56  | 50  | 46  |  | 55  | 50  | 46  | 44  |
| 9   | 66  | 54  | 47  | 43  | 65  | 54  | 47  | 42  | 53  | 47  | 42  |  | 52  | 46  | 42  |  | 51  | 46  | 42  | 40  |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  |  | 48  | 42  | 38  |  | 47  | 42  | 38  | 37  |

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

|     | 0°     | 45°   | 90°   | 135°  | 180°  |
|-----|--------|-------|-------|-------|-------|
| 0°  | 12142  | 12142 | 12142 | 12142 | 12142 |
| 5°  | 33141  | 25500 | 11237 | 2247  | 847   |
| 10° | 47602  | 37407 | 8132  | 210   | 175   |
| 15° | 61281  | 44503 | 4315  | 71    | 0     |
| 20° | 82602  | 49521 | 1649  | 0     | 0     |
| 25° | 93436  | 52314 | 418   | 0     | 0     |
| 30° | 103848 | 49319 | 40    | 0     | 0     |
| 35° | 112586 | 39316 | 0     | 0     | 0     |
| 40° | 109128 | 24685 | 0     | 0     | 0     |
| 45° | 86488  | 11764 | 0     | 0     | 0     |
| 50° | 56614  | 1474  | 0     | 0     | 0     |
| 55° | 9728   | 0     | 0     | 0     | 0     |
| 60° | 0      | 0     | 69    | 0     | 0     |
| 65° | 0      | 82    | 82    | 0     | 0     |
| 70° | 0      | 101   | 201   | 0     | 0     |
| 75° | 0      | 133   | 266   | 0     | 0     |
| 80° | 0      | 198   | 397   | 198   | 0     |
| 85° | 0      | 395   | 790   | 395   | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 86488 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 8.4    | 3.7       |
| 10°-20°   | 32.3   | 14.2      |
| 20°-30°   | 60.5   | 26.7      |
| 30°-40°   | 70.7   | 31.1      |
| 40°-50°   | 46.1   | 20.3      |
| 50°-60°   | 8.6    | 3.8       |
| 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°    | 101.3  | 44.6      |
| 0°-40°    | 171.9  | 75.7      |
| 0°-60°    | 226.6  | 99.8      |
| 0°-90°    | 227.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 227.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 70  | 70  | 70  | 70   | 70   |      |
| 5°  | 192 | 148 | 65  | 13   | 5    | 21   |
| 15° | 344 | 250 | 24  | 0    | 0    | 102  |
| 25° | 492 | 275 | 2   | 0    | 0    | 227  |
| 35° | 536 | 187 | 0   | 0    | 0    | 328  |
| 45° | 355 | 48  | 0   | 0    | 0    | 270  |
| 55° | 32  | 0   | 0   | 0    | 0    | 56   |
| 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°   | 50°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  | 70.5  |
| 2.5°  | 124.3 | 125.3 | 123.3 | 122.5 | 119.8 | 120.4 | 115.9 | 114.1 | 111.3 | 106.6 | 104.3 |
| 5°    | 191.7 | 189.9 | 188.3 | 184.8 | 182.8 | 177.3 | 171.2 | 164.2 | 155.9 | 147.5 | 137.9 |
| 7.5°  | 239.8 | 238.4 | 237.8 | 234.9 | 230.9 | 225.2 | 217.2 | 208.4 | 197.6 | 186.4 | 172.0 |
| 10°   | 272.2 | 270.8 | 268.3 | 265.5 | 262.2 | 257.5 | 249.8 | 240.2 | 228.4 | 213.9 | 197.0 |
| 12.5° | 293.4 | 293.2 | 289.1 | 285.9 | 281.8 | 277.7 | 269.8 | 262.0 | 250.4 | 235.5 | 216.4 |
| 15°   | 343.7 | 340.5 | 335.2 | 326.0 | 314.6 | 304.0 | 291.2 | 278.9 | 266.3 | 249.6 | 228.2 |
| 17.5° | 406.5 | 402.8 | 393.9 | 382.2 | 363.9 | 343.7 | 321.7 | 302.4 | 283.4 | 260.8 | 235.5 |
| 20°   | 450.7 | 449.3 | 441.7 | 428.3 | 408.7 | 382.0 | 353.1 | 325.8 | 299.1 | 270.2 | 239.0 |
| 22.5° | 479.0 | 478.2 | 475.2 | 466.0 | 446.0 | 416.1 | 378.8 | 342.1 | 309.9 | 276.1 | 238.0 |
| 25°   | 491.7 | 492.7 | 493.1 | 488.6 | 472.5 | 442.0 | 397.7 | 354.5 | 316.0 | 275.3 | 230.2 |
| 27.5° | 500.6 | 500.6 | 502.3 | 500.2 | 483.9 | 451.7 | 405.1 | 358.8 | 314.0 | 265.3 | 213.9 |
| 30°   | 522.2 | 521.8 | 522.8 | 517.3 | 494.7 | 454.8 | 401.8 | 351.9 | 302.4 | 248.0 | 190.5 |
| 32.5° | 531.6 | 532.0 | 531.8 | 523.0 | 496.8 | 452.7 | 393.9 | 338.6 | 281.0 | 220.9 | 159.5 |
| 35°   | 535.5 | 533.6 | 526.1 | 506.1 | 472.9 | 425.6 | 371.5 | 316.2 | 251.0 | 187.0 | 125.9 |
| 37.5° | 522.6 | 517.3 | 500.6 | 473.3 | 432.8 | 387.3 | 334.4 | 276.1 | 211.3 | 146.7 | 94.7  |
| 40°   | 485.4 | 478.4 | 457.4 | 424.4 | 387.3 | 346.4 | 290.6 | 229.0 | 165.2 | 109.8 | 66.4  |
| 42.5° | 432.6 | 424.6 | 402.0 | 373.3 | 339.5 | 296.5 | 240.8 | 179.3 | 121.0 | 75.8  | 42.2  |
| 45°   | 355.1 | 350.7 | 337.6 | 313.4 | 280.2 | 235.5 | 184.6 | 130.8 | 83.7  | 48.3  | 21.6  |
| 47.5° | 274.7 | 269.0 | 259.6 | 242.9 | 215.2 | 172.8 | 129.2 | 88.8  | 53.8  | 23.8  | 4.5   |
| 50°   | 211.3 | 204.6 | 193.2 | 174.6 | 145.7 | 115.3 | 83.7  | 55.4  | 27.3  | 5.5   | 0.2   |
| 52.5° | 121.6 | 123.1 | 117.6 | 105.8 | 89.7  | 69.1  | 48.5  | 27.9  | 6.1   | 0.2   | 0.0   |
| 55°   | 32.4  | 35.0  | 34.2  | 36.9  | 32.4  | 27.3  | 20.2  | 5.3   | 0.4   | 0.0   | 0.0   |
| 57.5° | 0.0   | 0.0   | 0.2   | 0.4   | 1.2   | 1.8   | 0.6   | 0.2   | 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   | 0.0   |
| 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   |
| 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   |
| 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):**

|       | 55°   | 60°   | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-------|-------|------|--------|------|--------|------|
| 0°    | 70.5  | 70.5  | 70.5  | 70.5 | 70.5   | 70.5 | 70.5   | 70.5 |
| 2.5°  | 99.2  | 95.0  | 89.7  | 70.1 | 52.8   | 37.9 | 29.5   | 27.3 |
| 5°    | 128.8 | 118.4 | 104.9 | 65.0 | 32.6   | 13.0 | 5.9    | 4.9  |
| 7.5°  | 156.7 | 141.4 | 117.2 | 56.8 | 16.5   | 3.3  | 1.6    | 1.4  |
| 10°   | 178.3 | 157.7 | 126.1 | 46.5 | 6.1    | 1.2  | 1.0    | 1.0  |
| 12.5° | 193.2 | 168.1 | 129.4 | 35.3 | 2.2    | 0.6  | 0.6    | 0.4  |
| 15°   | 201.7 | 172.2 | 126.3 | 24.2 | 0.8    | 0.4  | 0.0    | 0.0  |
| 17.5° | 204.4 | 170.5 | 118.2 | 15.3 | 0.2    | 0.0  | 0.0    | 0.0  |
| 20°   | 202.1 | 162.6 | 105.3 | 9.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 22.5° | 194.8 | 150.2 | 89.9  | 4.9  | 0.0    | 0.0  | 0.0    | 0.0  |
| 25°   | 181.1 | 132.6 | 71.7  | 2.2  | 0.0    | 0.0  | 0.0    | 0.0  |
| 27.5° | 158.9 | 110.0 | 54.0  | 0.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 133.7 | 85.8  | 38.3  | 0.2  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32.5° | 104.3 | 63.2  | 24.7  | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 78.4  | 44.2  | 14.7  | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 37.5° | 54.6  | 27.9  | 7.7   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 40°   | 34.0  | 15.1  | 2.6   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 42.5° | 18.9  | 5.3   | 0.2   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 45°   | 4.5   | 0.4   | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 47.5° | 0.2   | 0.0   | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 50°   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 52.5° | 0.0   | 0.0   | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 55°   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 57.5° | 0.0   | 0.0   | 0.0   | 0.2  | 0.0    | 0.0  | 0.0    | 0.0  |
| 60°   | 0.0   | 0.2   | 0.2   | 0.2  | 0.0    | 0.0  | 0.0    | 0.0  |
| 62.5° | 0.2   | 0.2   | 0.2   | 0.2  | 0.0    | 0.0  | 0.0    | 0.0  |
| 65°   | 0.2   | 0.2   | 0.2   | 0.2  | 0.2    | 0.0  | 0.0    | 0.0  |
| 67.5° | 0.2   | 0.2   | 0.2   | 0.2  | 0.2    | 0.0  | 0.0    | 0.0  |
| 70°   | 0.2   | 0.2   | 0.2   | 0.4  | 0.2    | 0.0  | 0.0    | 0.0  |
| 72.5° | 0.2   | 0.2   | 0.4   | 0.4  | 0.2    | 0.0  | 0.0    | 0.0  |
| 75°   | 0.2   | 0.2   | 0.4   | 0.4  | 0.2    | 0.0  | 0.0    | 0.0  |
| 77.5° | 0.2   | 0.4   | 0.4   | 0.4  | 0.2    | 0.2  | 0.0    | 0.0  |
| 80°   | 0.2   | 0.4   | 0.4   | 0.4  | 0.4    | 0.2  | 0.0    | 0.0  |
| 82.5° | 0.2   | 0.4   | 0.4   | 0.4  | 0.4    | 0.2  | 0.0    | 0.0  |
| 85°   | 0.2   | 0.4   | 0.4   | 0.4  | 0.2    | 0.2  | 0.0    | 0.0  |
| 87.5° | 0.2   | 0.4   | 0.4   | 0.4  | 0.4    | 0.2  | 0.0    | 0.0  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)