

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: P1312023

Luminaire Tested: P3SQAS02R709727DE010 E3SQCA301MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312023  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS02R709727DE010 E3SQCA301MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , E3SQCA301MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

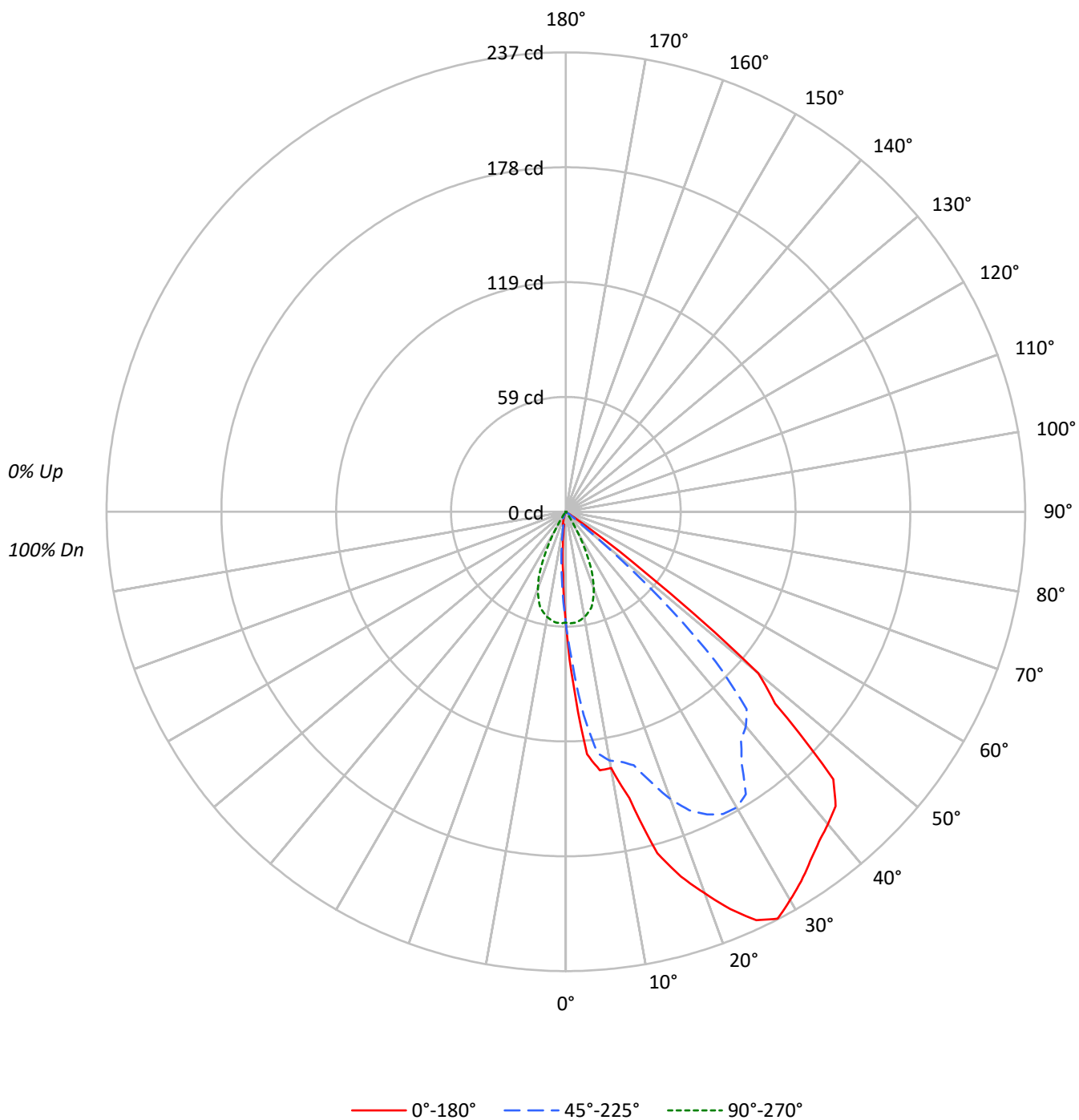
Lumens per Lamp: N/A  
Luminaire Lumens: 154.0 lumens  
Efficiency: N/A  
Efficacy: 42.8 lumens/watt  
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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 | 103 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 105 | 99  | 94  | 90  | 103 | 98  | 93  | 89  | 94  | 91  | 87  | 91  | 88  | 85  | 88  | 86  | 84  | 82  |    |    |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 79  | 86  | 81  | 77  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |    |    |
| 4   | 92  | 82  | 76  | 70  | 90  | 81  | 75  | 70  | 79  | 73  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 66  |    |    |
| 5   | 85  | 75  | 68  | 63  | 84  | 74  | 67  | 62  | 72  | 66  | 62  | 70  | 65  | 61  | 69  | 64  | 61  | 59  |    |    |
| 6   | 80  | 69  | 61  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 55  | 53  |    |    |
| 7   | 74  | 63  | 56  | 50  | 73  | 62  | 55  | 50  | 61  | 55  | 50  | 59  | 54  | 50  | 58  | 53  | 49  | 48  |    |    |
| 8   | 69  | 58  | 51  | 46  | 68  | 57  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 43  |    |    |
| 9   | 65  | 53  | 46  | 41  | 64  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 39  |    |    |
| 10  | 61  | 49  | 42  | 38  | 60  | 49  | 42  | 38  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 36  |    |    |

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

|     | 0°    | 45°   | 90°  | 135° | 180° |
|-----|-------|-------|------|------|------|
| 0°  | 9851  | 9851  | 9851 | 9851 | 9851 |
| 5°  | 21714 | 18222 | 9923 | 4512 | 2974 |
| 10° | 23486 | 22804 | 9653 | 1259 | 1294 |
| 15° | 32504 | 24142 | 9111 | 1284 | 927  |
| 20° | 38396 | 28921 | 7734 | 751  | 275  |
| 25° | 44181 | 32742 | 5454 | 133  | 0    |
| 30° | 46017 | 35040 | 2506 | 0    | 0    |
| 35° | 46233 | 33219 | 147  | 0    | 0    |
| 40° | 47302 | 32487 | 0    | 0    | 0    |
| 45° | 47543 | 26621 | 0    | 0    | 0    |
| 50° | 34697 | 5519  | 0    | 0    | 0    |
| 55° | 1952  | 0     | 0    | 0    | 0    |
| 60° | 0     | 69    | 69   | 0    | 0    |
| 65° | 0     | 0     | 82   | 0    | 0    |
| 70° | 0     | 101   | 101  | 0    | 0    |
| 75° | 0     | 133   | 133  | 0    | 0    |
| 80° | 0     | 198   | 198  | 198  | 0    |
| 85° | 0     | 395   | 395  | 395  | 0    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 48420 cd/sqm

TEST NUMBER: P1312023

CATALOG NUMBER: P3SQAS02R709727DE010 E3SQCA301MB

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 6.3    | 4.1       |
| 10°-20°   | 20.9   | 13.6      |
| 20°-30°   | 37.5   | 24.4      |
| 30°-40°   | 45.6   | 29.6      |
| 40°-50°   | 35.2   | 22.9      |
| 50°-60°   | 8.2    | 5.3       |
| 60°-70°   | 0.0    | 0.0       |
| 70°-80°   | 0.1    | 0.1       |
| 80°-90°   | 0.1    | 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°    | 64.7   | 42.0      |
| 0°-40°    | 110.3  | 71.6      |
| 0°-60°    | 153.7  | 99.8      |
| 0°-90°    | 154.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 154.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 57  | 57  | 57  | 57   | 57   |      |
| 5°  | 126 | 105 | 57  | 26   | 17   | 12   |
| 15° | 182 | 135 | 51  | 7    | 5    | 51   |
| 25° | 232 | 172 | 29  | 1    | 0    | 106  |
| 35° | 220 | 158 | 1   | 0    | 0    | 138  |
| 45° | 195 | 109 | 0   | 0    | 0    | 138  |
| 55° | 6   | 0   | 0   | 0    | 0    | 27   |
| 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    |      |

TEST NUMBER: P1312023

CATALOG NUMBER: P3SQAS02R709727DE010 E3SQCA301MB

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 57.2  | 57.2  | 57.2  | 57.2  | 57.2  | 57.2  | 57.2  | 57.2  | 57.2  | 57.2  | 57.2  |
| 2.5°  | 89.1  | 89.1  | 89.5  | 89.3  | 87.4  | 86.5  | 83.7  | 82.1  | 81.7  | 78.2  | 76.9  |
| 5°    | 125.6 | 125.8 | 124.7 | 124.5 | 122.4 | 120.8 | 118.4 | 114.7 | 111.0 | 105.4 | 100.4 |
| 7.5°  | 134.5 | 134.3 | 134.1 | 134.1 | 133.7 | 132.8 | 131.7 | 130.6 | 129.1 | 125.6 | 121.7 |
| 10°   | 134.3 | 134.3 | 134.1 | 134.1 | 133.9 | 134.1 | 133.9 | 133.2 | 132.6 | 130.4 | 128.2 |
| 12.5° | 151.3 | 149.9 | 148.2 | 145.6 | 141.3 | 138.0 | 134.3 | 133.2 | 132.8 | 132.1 | 130.8 |
| 15°   | 182.3 | 181.2 | 177.5 | 173.0 | 168.6 | 161.3 | 155.4 | 147.3 | 141.0 | 135.4 | 132.6 |
| 17.5° | 197.3 | 198.0 | 193.8 | 191.0 | 186.9 | 181.0 | 174.1 | 165.8 | 156.9 | 146.3 | 137.8 |
| 20°   | 209.5 | 210.1 | 206.7 | 203.8 | 199.1 | 193.0 | 186.9 | 178.0 | 169.5 | 157.8 | 146.7 |
| 22.5° | 221.9 | 222.3 | 219.1 | 214.9 | 209.5 | 203.2 | 195.4 | 186.2 | 177.1 | 166.7 | 154.9 |
| 25°   | 232.5 | 232.1 | 226.7 | 220.8 | 215.6 | 208.8 | 201.2 | 192.3 | 183.6 | 172.3 | 161.3 |
| 27.5° | 236.7 | 236.4 | 230.4 | 224.7 | 218.6 | 209.5 | 202.8 | 194.9 | 185.8 | 175.8 | 164.5 |
| 30°   | 231.4 | 234.9 | 231.0 | 226.9 | 219.5 | 210.4 | 203.8 | 194.5 | 186.0 | 176.2 | 163.4 |
| 32.5° | 226.0 | 230.4 | 229.1 | 227.1 | 218.4 | 211.2 | 202.8 | 194.1 | 184.1 | 172.8 | 153.2 |
| 35°   | 219.9 | 224.5 | 224.7 | 222.5 | 214.7 | 207.5 | 199.7 | 190.6 | 179.3 | 158.0 | 143.6 |
| 37.5° | 214.5 | 218.8 | 220.1 | 215.6 | 209.5 | 199.9 | 192.8 | 183.2 | 162.8 | 148.4 | 141.0 |
| 40°   | 210.4 | 213.6 | 215.6 | 208.4 | 202.3 | 193.0 | 184.7 | 168.0 | 149.5 | 144.5 | 134.1 |
| 42.5° | 206.0 | 209.1 | 209.9 | 202.1 | 192.8 | 183.9 | 171.9 | 150.8 | 145.4 | 138.0 | 110.0 |
| 45°   | 195.2 | 198.8 | 196.7 | 189.1 | 182.1 | 172.8 | 154.9 | 145.8 | 140.0 | 109.3 | 67.6  |
| 47.5° | 146.5 | 150.6 | 156.5 | 158.6 | 161.0 | 154.3 | 144.5 | 141.3 | 115.0 | 66.3  | 21.1  |
| 50°   | 129.5 | 128.9 | 128.9 | 130.0 | 131.9 | 134.1 | 136.9 | 119.1 | 69.1  | 20.6  | 0.0   |
| 52.5° | 52.8  | 55.4  | 68.2  | 79.8  | 93.0  | 106.3 | 110.4 | 73.0  | 26.9  | 0.4   | 0.0   |
| 55°   | 6.5   | 6.5   | 9.1   | 15.6  | 25.9  | 41.7  | 46.9  | 23.5  | 2.0   | 0.0   | 0.0   |
| 57.5° | 0.0   | 0.0   | 0.0   | 0.2   | 1.7   | 4.8   | 3.3   | 0.9   | 0.2   | 0.2   | 0.0   |
| 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   |
| 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   | 0.0   | 0.0   |
| 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   | 0.0   | 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   | 0.0   | 0.2   | 0.2   | 0.2   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 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   |

TEST NUMBER: P1312023

CATALOG NUMBER: P3SQAS02R709727DE010 E3SQCA301MB

**CANDELA DISTRIBUTION (continued):**

|       | 55°   | 60°   | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-------|-------|------|--------|------|--------|------|
| 0°    | 57.2  | 57.2  | 57.2  | 57.2 | 57.2   | 57.2 | 57.2   | 57.2 |
| 2.5°  | 74.8  | 72.1  | 68.5  | 57.6 | 48.2   | 40.0 | 35.2   | 32.8 |
| 5°    | 95.6  | 89.3  | 80.8  | 57.4 | 39.1   | 26.1 | 19.6   | 17.2 |
| 7.5°  | 115.6 | 108.4 | 94.1  | 56.5 | 30.0   | 15.2 | 8.5    | 6.7  |
| 10°   | 124.3 | 119.1 | 106.3 | 55.2 | 21.7   | 7.2  | 7.2    | 7.4  |
| 12.5° | 127.8 | 123.9 | 113.4 | 53.2 | 14.3   | 7.0  | 7.4    | 7.0  |
| 15°   | 130.2 | 126.5 | 116.9 | 51.1 | 8.3    | 7.2  | 5.9    | 5.2  |
| 17.5° | 131.5 | 127.1 | 118.0 | 46.9 | 5.4    | 6.1  | 3.7    | 3.0  |
| 20°   | 135.6 | 128.7 | 118.9 | 42.2 | 5.2    | 4.1  | 2.0    | 1.5  |
| 22.5° | 142.6 | 131.7 | 119.1 | 36.3 | 4.1    | 2.4  | 0.7    | 0.0  |
| 25°   | 148.9 | 135.8 | 119.7 | 28.7 | 1.3    | 0.7  | 0.0    | 0.0  |
| 27.5° | 151.9 | 137.1 | 119.5 | 20.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 148.2 | 133.9 | 117.6 | 12.6 | 0.0    | 0.0  | 0.0    | 0.0  |
| 32.5° | 139.5 | 131.5 | 111.5 | 5.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 136.7 | 126.3 | 97.6  | 0.7  | 0.0    | 0.0  | 0.0    | 0.0  |
| 37.5° | 130.4 | 111.3 | 71.7  | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 40°   | 112.1 | 80.4  | 34.1  | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 42.5° | 74.1  | 34.3  | 2.0   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 45°   | 26.1  | 2.2   | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 47.5° | 0.4   | 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   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 60°   | 0.2   | 0.2   | 0.2   | 0.2  | 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  |
| 65°   | 0.0   | 0.0   | 0.2   | 0.2  | 0.0    | 0.0  | 0.0    | 0.0  |
| 67.5° | 0.2   | 0.2   | 0.2   | 0.2  | 0.0    | 0.0  | 0.0    | 0.0  |
| 70°   | 0.2   | 0.2   | 0.2   | 0.2  | 0.2    | 0.0  | 0.0    | 0.0  |
| 72.5° | 0.2   | 0.2   | 0.2   | 0.2  | 0.2    | 0.0  | 0.0    | 0.0  |
| 75°   | 0.2   | 0.2   | 0.2   | 0.2  | 0.2    | 0.0  | 0.0    | 0.0  |
| 77.5° | 0.2   | 0.2   | 0.2   | 0.2  | 0.2    | 0.0  | 0.0    | 0.0  |
| 80°   | 0.2   | 0.2   | 0.2   | 0.2  | 0.2    | 0.2  | 0.0    | 0.0  |
| 82.5° | 0.2   | 0.2   | 0.2   | 0.2  | 0.2    | 0.2  | 0.0    | 0.0  |
| 85°   | 0.2   | 0.2   | 0.2   | 0.2  | 0.2    | 0.2  | 0.0    | 0.0  |
| 87.5° | 0.2   | 0.2   | 0.2   | 0.2  | 0.2    | 0.0  | 0.0    | 0.0  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)