

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: P1335834

Luminaire Tested: P3A02R409840DE010 E3A301H

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1335834  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A02R409840DE010 E3A301H  
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 98CRI , E3A301H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

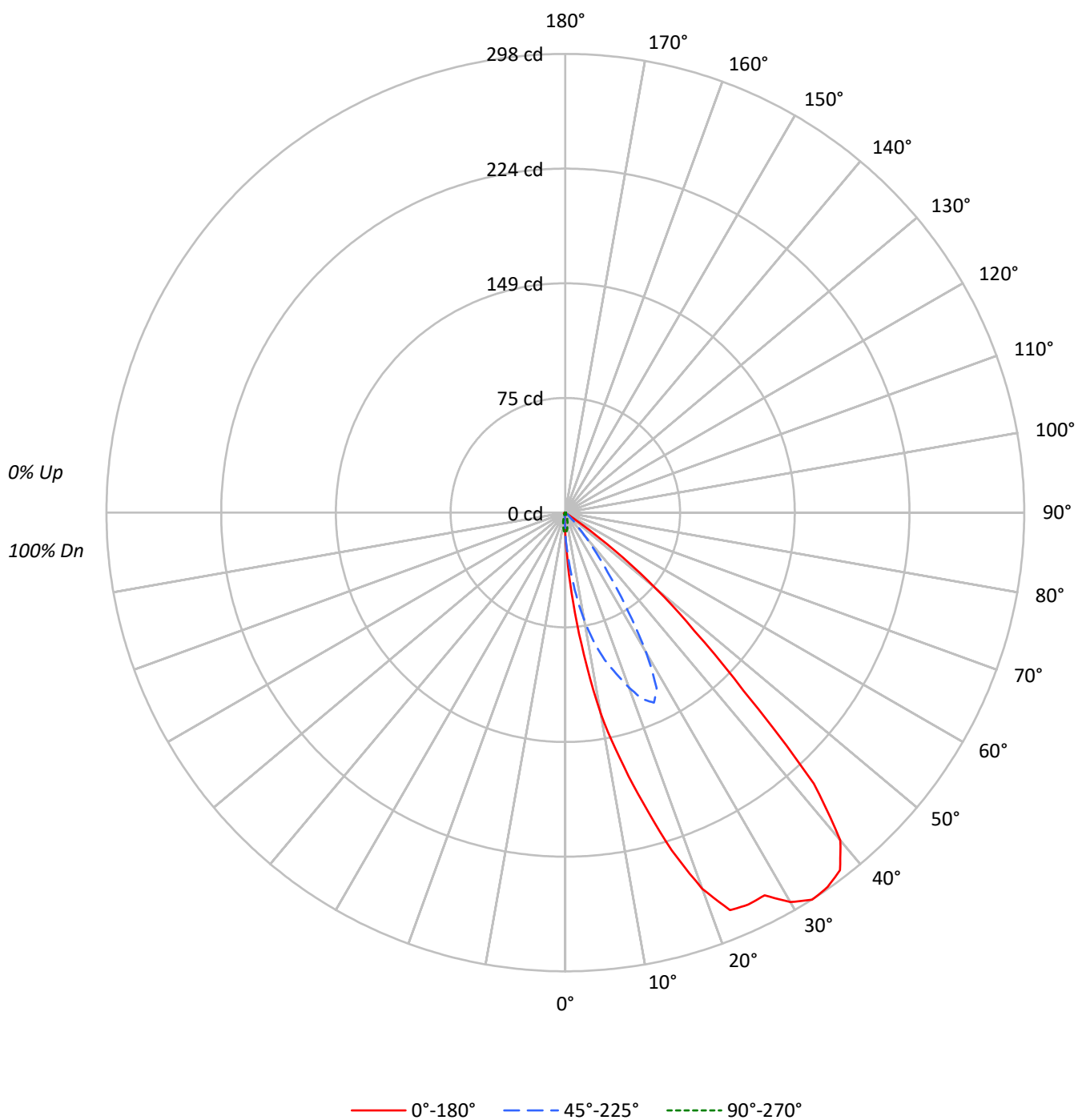
Lumens per Lamp: N/A  
Luminaire Lumens: 110.1 lumens  
Efficiency: N/A  
Efficacy: 30.6 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

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

|     | 0°    | 45°   | 90°  | 135° | 180° |
|-----|-------|-------|------|------|------|
| 0°  | 2851  | 2851  | 2851 | 2851 | 2851 |
| 5°  | 12877 | 8210  | 2553 | 991  | 726  |
| 10° | 29525 | 15854 | 1804 | 356  | 267  |
| 15° | 44291 | 22497 | 1112 | 182  | 159  |
| 20° | 60649 | 28212 | 653  | 117  | 140  |
| 25° | 67988 | 32954 | 339  | 97   | 121  |
| 30° | 73961 | 26612 | 152  | 76   | 127  |
| 35° | 79478 | 13626 | 54   | 107  | 161  |
| 40° | 79520 | 5439  | 29   | 115  | 200  |
| 45° | 50765 | 1830  | 62   | 186  | 248  |
| 50° | 26370 | 239   | 102  | 239  | 307  |
| 55° | 2294  | 38    | 115  | 268  | 382  |
| 60° | 88    | 44    | 132  | 307  | 439  |
| 65° | 104   | 52    | 208  | 363  | 467  |
| 70° | 64    | 64    | 256  | 385  | 449  |
| 75° | 85    | 85    | 254  | 424  | 593  |
| 80° | 126   | 126   | 379  | 379  | 505  |
| 85° | 0     | 252   | 755  | 503  | 503  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 50765 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.5    | 2.3       |
| 10°-20°   | 14.9   | 13.5      |
| 20°-30°   | 32.6   | 29.6      |
| 30°-40°   | 37.2   | 33.8      |
| 40°-50°   | 19.6   | 17.8      |
| 50°-60°   | 2.3    | 2.1       |
| 60°-70°   | 0.4    | 0.4       |
| 70°-80°   | 0.4    | 0.3       |
| 80°-90°   | 0.2    | 0.2       |
| 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°    | 50.0   | 45.5      |
| 0°-40°    | 87.2   | 79.2      |
| 0°-60°    | 109.1  | 99.1      |
| 0°-90°    | 110.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 110.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 13  | 13  | 13  | 13   | 13   |      |
| 5°  | 58  | 37  | 12  | 4    | 3    | 8    |
| 15° | 195 | 99  | 5   | 1    | 1    | 57   |
| 25° | 281 | 136 | 1   | 0    | 0    | 129  |
| 35° | 297 | 51  | 0   | 0    | 1    | 184  |
| 45° | 164 | 6   | 0   | 1    | 1    | 132  |
| 55° | 6   | 0   | 0   | 1    | 1    | 18   |
| 65° | 0   | 0   | 0   | 1    | 1    | 0    |
| 75° | 0   | 0   | 0   | 0    | 1    | 0    |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1335834

CATALOG NUMBER: P3A02R409840DE010 E3A301H

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 67.5° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 13.0  | 13.0  | 13.0  | 13.0  | 13.0  | 13.0  | 13.0  | 13.0  | 13.0  | 13.0  | 13.0  |
| 2.5°  | 29.0  | 29.0  | 28.9  | 28.1  | 28.0  | 27.9  | 26.4  | 26.0  | 24.3  | 23.1  | 17.6  |
| 5°    | 58.5  | 57.2  | 57.1  | 55.6  | 53.1  | 49.7  | 47.6  | 44.2  | 40.8  | 37.3  | 21.7  |
| 7.5°  | 93.2  | 94.3  | 91.2  | 89.6  | 84.0  | 80.0  | 73.9  | 68.5  | 61.0  | 53.9  | 25.0  |
| 10°   | 132.6 | 130.6 | 127.6 | 124.5 | 118.4 | 111.3 | 102.2 | 92.6  | 81.7  | 71.2  | 26.9  |
| 12.5° | 163.3 | 160.8 | 159.0 | 154.8 | 148.8 | 139.6 | 128.8 | 115.9 | 101.5 | 86.4  | 26.8  |
| 15°   | 195.1 | 192.6 | 188.5 | 184.7 | 175.9 | 165.6 | 153.8 | 136.9 | 119.2 | 99.1  | 24.8  |
| 17.5° | 230.1 | 226.8 | 222.2 | 216.5 | 208.0 | 196.5 | 181.6 | 160.9 | 135.9 | 109.5 | 21.3  |
| 20°   | 259.9 | 258.0 | 253.3 | 246.6 | 238.3 | 227.1 | 209.8 | 187.0 | 156.5 | 120.9 | 16.9  |
| 22.5° | 279.5 | 277.7 | 274.5 | 268.7 | 262.4 | 250.5 | 234.7 | 209.6 | 173.7 | 131.2 | 12.8  |
| 25°   | 281.0 | 280.3 | 279.5 | 277.5 | 273.7 | 265.2 | 249.8 | 222.8 | 184.4 | 136.2 | 9.5   |
| 27.5° | 280.2 | 279.9 | 279.7 | 278.7 | 276.2 | 267.8 | 252.0 | 224.7 | 183.0 | 128.4 | 7.0   |
| 30°   | 292.1 | 291.3 | 290.8 | 287.5 | 280.9 | 267.9 | 247.3 | 214.2 | 162.6 | 105.1 | 5.0   |
| 32.5° | 298.2 | 298.0 | 297.5 | 294.3 | 285.0 | 268.1 | 239.3 | 188.8 | 128.9 | 75.9  | 3.4   |
| 35°   | 296.9 | 296.0 | 294.3 | 288.3 | 275.4 | 254.3 | 213.5 | 150.8 | 93.1  | 50.9  | 2.2   |
| 37.5° | 292.9 | 290.7 | 287.5 | 276.6 | 259.4 | 230.6 | 173.1 | 111.0 | 63.3  | 32.9  | 1.3   |
| 40°   | 277.8 | 274.9 | 269.8 | 256.5 | 233.9 | 190.0 | 128.0 | 75.0  | 41.6  | 19.0  | 0.4   |
| 42.5° | 238.8 | 235.1 | 231.4 | 216.5 | 190.7 | 141.7 | 84.2  | 46.4  | 23.7  | 10.4  | 0.1   |
| 45°   | 163.7 | 159.1 | 154.0 | 143.2 | 122.4 | 85.8  | 50.1  | 26.1  | 12.3  | 5.9   | 0.1   |
| 47.5° | 113.7 | 111.6 | 102.6 | 88.9  | 68.1  | 45.5  | 25.9  | 12.8  | 6.5   | 2.7   | 0.1   |
| 50°   | 77.3  | 74.8  | 64.4  | 51.1  | 36.3  | 21.8  | 11.9  | 6.4   | 2.9   | 0.7   | 0.1   |
| 52.5° | 40.5  | 37.6  | 31.0  | 23.6  | 14.7  | 9.1   | 5.2   | 2.8   | 0.8   | 0.1   | 0.1   |
| 55°   | 6.0   | 5.5   | 4.5   | 3.6   | 3.3   | 2.5   | 1.5   | 0.7   | 0.1   | 0.1   | 0.2   |
| 57.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.3   | 0.3   | 0.2   | 0.1   | 0.1   | 0.1   | 0.2   |
| 60°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.2   |
| 62.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.2   |
| 65°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.2   |
| 67.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.2   | 0.3   |
| 70°   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.3   |
| 72.5° | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.2   | 0.3   |
| 75°   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.3   |
| 77.5° | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.2   | 0.3   |
| 80°   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.2   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.3   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 0.1   | 0.1   | 0.2   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 0.1   | 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: P1335834

CATALOG NUMBER: P3A02R409840DE010 E3A301H

**CANDELA DISTRIBUTION (continued):**

|       | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|------|--------|------|--------|------|
| 0°    | 13.0 | 13.0   | 13.0 | 13.0   | 13.0 |
| 2.5°  | 12.8 | 9.5    | 7.3  | 6.3    | 6.2  |
| 5°    | 11.6 | 6.8    | 4.5  | 3.4    | 3.3  |
| 7.5°  | 9.9  | 4.7    | 2.6  | 1.9    | 1.8  |
| 10°   | 8.1  | 3.3    | 1.6  | 1.3    | 1.2  |
| 12.5° | 6.4  | 2.1    | 1.1  | 1.0    | 0.9  |
| 15°   | 4.9  | 1.4    | 0.8  | 0.7    | 0.7  |
| 17.5° | 3.7  | 0.9    | 0.7  | 0.7    | 0.7  |
| 20°   | 2.8  | 0.7    | 0.5  | 0.6    | 0.6  |
| 22.5° | 2.0  | 0.5    | 0.4  | 0.5    | 0.5  |
| 25°   | 1.4  | 0.4    | 0.4  | 0.5    | 0.5  |
| 27.5° | 0.9  | 0.3    | 0.3  | 0.4    | 0.5  |
| 30°   | 0.6  | 0.2    | 0.3  | 0.4    | 0.5  |
| 32.5° | 0.3  | 0.2    | 0.3  | 0.5    | 0.5  |
| 35°   | 0.2  | 0.3    | 0.4  | 0.5    | 0.6  |
| 37.5° | 0.1  | 0.3    | 0.4  | 0.6    | 0.6  |
| 40°   | 0.1  | 0.3    | 0.4  | 0.6    | 0.7  |
| 42.5° | 0.2  | 0.4    | 0.5  | 0.7    | 0.7  |
| 45°   | 0.2  | 0.4    | 0.6  | 0.7    | 0.8  |
| 47.5° | 0.2  | 0.4    | 0.7  | 0.8    | 0.8  |
| 50°   | 0.3  | 0.5    | 0.7  | 0.8    | 0.9  |
| 52.5° | 0.3  | 0.5    | 0.7  | 0.9    | 1.0  |
| 55°   | 0.3  | 0.5    | 0.7  | 0.9    | 1.0  |
| 57.5° | 0.3  | 0.6    | 0.7  | 0.9    | 1.0  |
| 60°   | 0.3  | 0.5    | 0.7  | 0.9    | 1.0  |
| 62.5° | 0.4  | 0.5    | 0.7  | 0.9    | 0.9  |
| 65°   | 0.4  | 0.5    | 0.7  | 0.9    | 0.9  |
| 67.5° | 0.4  | 0.5    | 0.7  | 0.8    | 0.8  |
| 70°   | 0.4  | 0.5    | 0.6  | 0.7    | 0.7  |
| 72.5° | 0.4  | 0.5    | 0.6  | 0.7    | 0.7  |
| 75°   | 0.3  | 0.4    | 0.5  | 0.6    | 0.7  |
| 77.5° | 0.3  | 0.4    | 0.4  | 0.6    | 0.6  |
| 80°   | 0.3  | 0.3    | 0.3  | 0.4    | 0.4  |
| 82.5° | 0.3  | 0.3    | 0.2  | 0.3    | 0.3  |
| 85°   | 0.3  | 0.2    | 0.2  | 0.2    | 0.2  |
| 87.5° | 0.2  | 0.2    | 0.1  | 0.1    | 0.1  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)