

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: P1345082

Luminaire Tested: P3A13R309835DE010 E3A301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1345082  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R309835DE010 E3A301MW  
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 98CRI , E3A301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

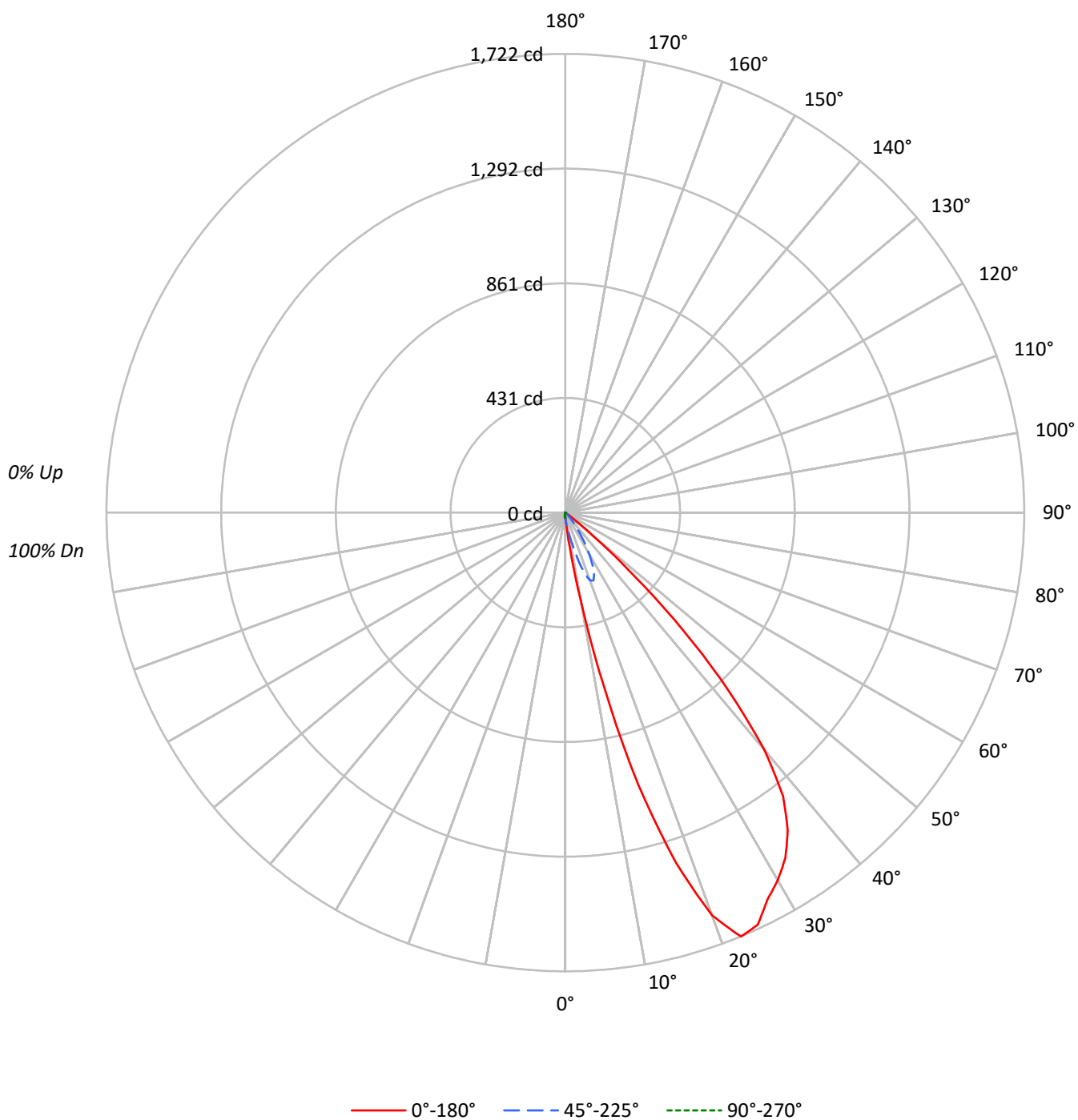
Lumens per Lamp: N/A  
Luminaire Lumens: 406.0 lumens  
Efficiency: N/A  
Efficacy: 28.0 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
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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CATALOG NUMBER: P3A13R309835DE010 E3A301MW

### 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   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 92  |    |    |
| 2   | 106 | 100 | 95  | 92  | 103 | 98  | 94  | 90  | 95  | 92  | 88  | 92  | 89  | 87  | 89  | 87  | 85  | 83  |    |    |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 79  | 77  | 75  |    |    |
| 4   | 93  | 84  | 77  | 72  | 91  | 83  | 77  | 72  | 80  | 75  | 71  | 78  | 74  | 70  | 76  | 73  | 69  | 68  |    |    |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 69  | 65  | 74  | 68  | 64  | 72  | 67  | 63  | 71  | 66  | 63  | 61  |    |    |
| 6   | 81  | 71  | 64  | 58  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 61  | 57  | 55  |    |    |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 50  |    |    |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 45  |    |    |
| 9   | 67  | 55  | 48  | 43  | 65  | 55  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 52  | 46  | 43  | 41  |    |    |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 37  |    |    |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 4232   | 4232  | 4232 | 4232 | 4232 |
| 5°  | 12745  | 8497  | 4006 | 1805 | 1475 |
| 10° | 73768  | 18013 | 3140 | 824  | 579  |
| 15° | 239956 | 40840 | 2179 | 159  | 91   |
| 20° | 375466 | 63192 | 1377 | 0    | 0    |
| 25° | 413080 | 61746 | 726  | 0    | 0    |
| 30° | 403454 | 44513 | 279  | 0    | 0    |
| 35° | 389412 | 25324 | 107  | 0    | 0    |
| 40° | 332079 | 10734 | 0    | 0    | 0    |
| 45° | 194904 | 4031  | 124  | 0    | 124  |
| 50° | 47350  | 751   | 136  | 136  | 375  |
| 55° | 4129   | 0     | 268  | 421  | 573  |
| 60° | 175    | 0     | 307  | 482  | 833  |
| 65° | 208    | 208   | 571  | 571  | 986  |
| 70° | 256    | 256   | 705  | 705  | 962  |
| 75° | 0      | 339   | 932  | 932  | 932  |
| 80° | 0      | 505   | 1389 | 884  | 884  |
| 85° | 0      | 1006  | 2768 | 1006 | 1006 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 194904 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.5    | 0.9       |
| 10°-20°   | 55.8   | 13.7      |
| 20°-30°   | 141.8  | 34.9      |
| 30°-40°   | 141.3  | 34.8      |
| 40°-50°   | 57.3   | 14.1      |
| 50°-60°   | 4.0    | 1.0       |
| 60°-70°   | 0.9    | 0.2       |
| 70°-80°   | 0.9    | 0.2       |
| 80°-90°   | 0.5    | 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°    | 201.1  | 49.5      |
| 0°-40°    | 342.5  | 84.4      |
| 0°-60°    | 403.7  | 99.4      |
| 0°-90°    | 406.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 406.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 19   | 19  | 19  | 19   | 19   |      |
| 5°  | 58   | 39  | 18  | 8    | 7    | 13   |
| 15° | 1057 | 180 | 10  | 1    | 0    | 308  |
| 25° | 1707 | 255 | 3   | 0    | 0    | 771  |
| 35° | 1455 | 95  | 0   | 0    | 0    | 892  |
| 45° | 628  | 13  | 0   | 0    | 0    | 479  |
| 55° | 11   | 0   | 1   | 1    | 2    | 28   |
| 65° | 0    | 0   | 1   | 1    | 2    | 0    |
| 75° | 0    | 0   | 1   | 1    | 1    | 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°    | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3  | 19.3  | 19.3  | 19.3  | 19.3  |
| 2.5°  | 31.9   | 32.3   | 32.3   | 31.5   | 31.2   | 31.2   | 30.1  | 29.7  | 28.6  | 27.5  | 23.7  |
| 5°    | 57.9   | 56.8   | 55.3   | 55.3   | 51.9   | 50.1   | 47.5  | 44.5  | 42.3  | 38.6  | 27.5  |
| 7.5°  | 131.3  | 122.4  | 119.8  | 116.5  | 103.9  | 93.9   | 82.4  | 72.3  | 63.1  | 55.3  | 30.4  |
| 10°   | 331.3  | 313.9  | 299.4  | 270.1  | 233.4  | 198.1  | 165.5 | 127.6 | 101.7 | 80.9  | 32.6  |
| 12.5° | 667.4  | 644.0  | 616.2  | 562.8  | 494.2  | 406.2  | 328.3 | 245.2 | 172.1 | 119.1 | 33.4  |
| 15°   | 1057.0 | 1017.3 | 973.9  | 906.0  | 793.5  | 667.4  | 526.8 | 394.4 | 276.4 | 179.9 | 32.6  |
| 17.5° | 1374.5 | 1358.9 | 1294.8 | 1202.0 | 1064.4 | 901.9  | 728.6 | 547.6 | 372.8 | 235.6 | 30.4  |
| 20°   | 1609.0 | 1598.2 | 1520.7 | 1422.0 | 1266.9 | 1080.7 | 860.7 | 643.3 | 440.0 | 270.8 | 27.1  |
| 22.5° | 1722.1 | 1720.3 | 1664.3 | 1563.4 | 1399.0 | 1187.9 | 945.7 | 698.6 | 460.8 | 275.6 | 22.6  |
| 25°   | 1707.3 | 1714.0 | 1682.1 | 1607.1 | 1449.5 | 1232.1 | 970.9 | 698.6 | 445.6 | 255.2 | 18.9  |
| 27.5° | 1639.8 | 1644.2 | 1624.2 | 1566.7 | 1419.8 | 1200.2 | 935.6 | 653.7 | 401.4 | 219.3 | 15.6  |
| 30°   | 1593.4 | 1595.3 | 1570.4 | 1508.8 | 1353.0 | 1127.4 | 852.5 | 570.6 | 334.6 | 175.8 | 11.5  |
| 32.5° | 1537.0 | 1536.6 | 1507.7 | 1437.2 | 1265.5 | 1025.4 | 747.2 | 471.5 | 257.1 | 133.6 | 6.7   |
| 35°   | 1454.7 | 1445.4 | 1406.1 | 1324.8 | 1134.9 | 888.2  | 612.5 | 359.1 | 185.1 | 94.6  | 4.1   |
| 37.5° | 1341.5 | 1317.4 | 1261.7 | 1153.0 | 951.6  | 696.4  | 454.1 | 252.3 | 126.5 | 62.7  | 2.6   |
| 40°   | 1160.1 | 1134.5 | 1058.8 | 926.7  | 719.7  | 501.2  | 306.1 | 164.3 | 79.8  | 37.5  | 1.5   |
| 42.5° | 909.7  | 892.2  | 790.2  | 658.5  | 475.2  | 319.8  | 184.0 | 97.2  | 44.9  | 21.5  | 0.4   |
| 45°   | 628.5  | 605.8  | 525.7  | 414.0  | 285.3  | 177.3  | 103.1 | 50.8  | 25.6  | 13.0  | 0.0   |
| 47.5° | 346.9  | 319.1  | 272.7  | 214.4  | 143.6  | 93.1   | 51.9  | 27.5  | 14.5  | 6.3   | 0.0   |
| 50°   | 138.8  | 137.6  | 109.4  | 77.9   | 54.9   | 42.3   | 26.0  | 14.8  | 7.4   | 2.2   | 0.4   |
| 52.5° | 48.6   | 48.6   | 41.9   | 34.1   | 26.7   | 19.3   | 13.0  | 7.0   | 2.6   | 0.7   | 0.4   |
| 55°   | 10.8   | 11.9   | 11.1   | 10.4   | 10.0   | 8.5    | 5.6   | 2.6   | 0.7   | 0.0   | 0.4   |
| 57.5° | 1.1    | 1.1    | 1.1    | 1.5    | 1.9    | 1.9    | 1.5   | 0.7   | 0.0   | 0.0   | 0.4   |
| 60°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.0   | 0.0   | 0.0   | 0.7   |
| 62.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.0    | 0.0   | 0.0   | 0.4   | 0.4   | 0.7   |
| 65°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.4   | 0.4   | 0.7   |
| 67.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.4   | 0.4   | 0.7   |
| 70°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.4   | 0.4   | 1.1   |
| 72.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.4   | 0.4   | 1.1   |
| 75°   | 0.0    | 0.0    | 0.4    | 0.4    | 0.0    | 0.4    | 0.4   | 0.4   | 0.4   | 0.4   | 1.1   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.4    | 0.4    | 0.4   | 0.4   | 0.4   | 0.4   | 0.7   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.4   | 0.4   | 0.4   | 0.7   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4    | 0.4   | 0.4   | 0.4   | 0.4   | 0.7   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.4   | 0.4   | 0.7   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.4   | 0.4   | 0.7   |
| 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°    | 19.3 | 19.3   | 19.3 | 19.3   | 19.3 |
| 2.5°  | 19.3 | 15.2   | 12.6 | 11.1   | 10.8 |
| 5°    | 18.2 | 11.5   | 8.2  | 7.0    | 6.7  |
| 7.5°  | 16.3 | 8.5    | 5.6  | 4.5    | 4.1  |
| 10°   | 14.1 | 6.3    | 3.7  | 2.6    | 2.6  |
| 12.5° | 11.9 | 4.8    | 2.2  | 1.1    | 0.7  |
| 15°   | 9.6  | 3.0    | 0.7  | 0.4    | 0.4  |
| 17.5° | 7.4  | 1.9    | 0.0  | 0.0    | 0.0  |
| 20°   | 5.9  | 0.7    | 0.0  | 0.0    | 0.0  |
| 22.5° | 4.5  | 0.4    | 0.0  | 0.0    | 0.0  |
| 25°   | 3.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 27.5° | 1.9  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 1.1  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32.5° | 0.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 0.4  | 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°   | 0.4  | 0.0    | 0.0  | 0.4    | 0.4  |
| 47.5° | 0.4  | 0.4    | 0.4  | 0.7    | 0.7  |
| 50°   | 0.4  | 0.4    | 0.4  | 0.7    | 1.1  |
| 52.5° | 0.7  | 0.4    | 0.7  | 1.1    | 1.1  |
| 55°   | 0.7  | 0.7    | 1.1  | 1.5    | 1.5  |
| 57.5° | 0.7  | 0.7    | 1.1  | 1.5    | 1.5  |
| 60°   | 0.7  | 0.7    | 1.1  | 1.5    | 1.9  |
| 62.5° | 1.1  | 1.1    | 1.1  | 1.5    | 1.5  |
| 65°   | 1.1  | 1.1    | 1.1  | 1.5    | 1.9  |
| 67.5° | 1.1  | 1.1    | 1.1  | 1.5    | 1.9  |
| 70°   | 1.1  | 1.1    | 1.1  | 1.5    | 1.5  |
| 72.5° | 1.5  | 1.1    | 1.1  | 1.5    | 1.5  |
| 75°   | 1.1  | 1.1    | 1.1  | 1.1    | 1.1  |
| 77.5° | 1.1  | 1.1    | 0.7  | 1.1    | 1.1  |
| 80°   | 1.1  | 0.7    | 0.7  | 0.7    | 0.7  |
| 82.5° | 1.1  | 0.7    | 0.7  | 0.7    | 0.7  |
| 85°   | 1.1  | 0.7    | 0.4  | 0.4    | 0.4  |
| 87.5° | 1.1  | 0.7    | 0.4  | 0.4    | 0.4  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)