

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: P1345226

Luminaire Tested: P3A13R30W2N902750DE010 E3A301MW\_5000K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1345226  
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: P3A13R30W2N902750DE010 E3A301MW\_5000K  
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 5000K CCT AND, 90CRI ,  
E3A301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

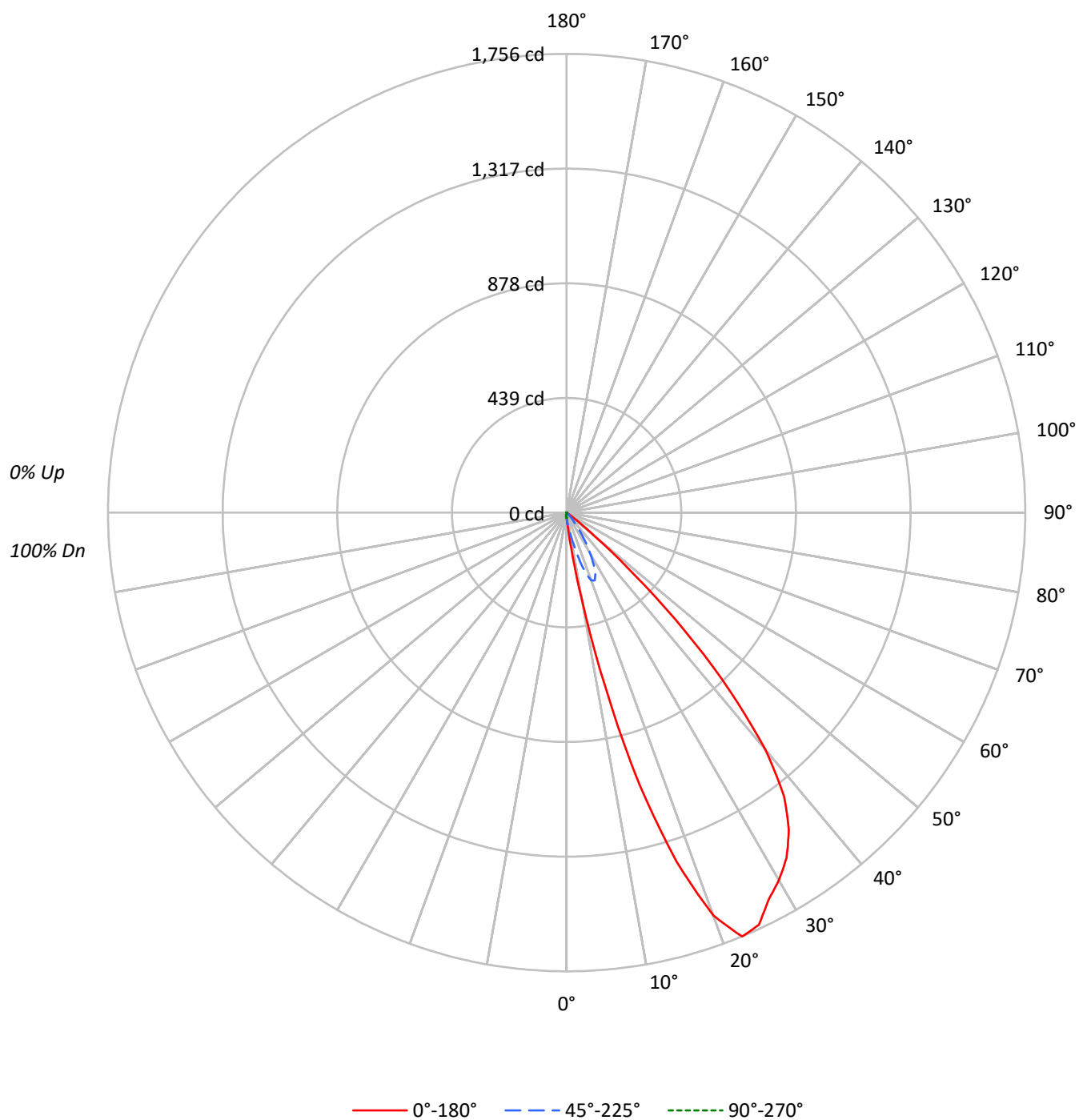
Lumens per Lamp: N/A  
Luminaire Lumens: 414.0 lumens  
Efficiency: N/A  
Efficacy: 33.7 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 12.3  
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 |
| 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  | 87  | 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°  | 4320   | 4320  | 4320 | 4320 | 4320 |
| 5°  | 12987  | 8651  | 4072 | 1827 | 1497 |
| 10° | 75216  | 18370 | 3206 | 846  | 579  |
| 15° | 244678 | 41657 | 2225 | 182  | 91   |
| 20° | 382863 | 64452 | 1423 | 0    | 0    |
| 25° | 421210 | 62979 | 726  | 0    | 0    |
| 30° | 411405 | 45399 | 279  | 0    | 0    |
| 35° | 397068 | 25832 | 107  | 0    | 0    |
| 40° | 338606 | 10935 | 0    | 0    | 0    |
| 45° | 198718 | 4093  | 124  | 0    | 124  |
| 50° | 48271  | 785   | 136  | 136  | 375  |
| 55° | 4205   | 0     | 306  | 421  | 573  |
| 60° | 175    | 0     | 351  | 482  | 833  |
| 65° | 208    | 208   | 571  | 571  | 986  |
| 70° | 256    | 256   | 705  | 705  | 962  |
| 75° | 0      | 339   | 932  | 932  | 932  |
| 80° | 0      | 505   | 1389 | 1010 | 1010 |
| 85° | 0      | 1006  | 2768 | 1006 | 1006 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 198718 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.6    | 0.9       |
| 10°-20°   | 56.9   | 13.7      |
| 20°-30°   | 144.6  | 34.9      |
| 30°-40°   | 144.1  | 34.8      |
| 40°-50°   | 58.4   | 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°    | 205.1  | 49.5      |
| 0°-40°    | 349.2  | 84.4      |
| 0°-60°    | 411.7  | 99.4      |
| 0°-90°    | 414.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 414.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 20   | 20  | 20  | 20   | 20   |      |
| 5°  | 59   | 39  | 18  | 8    | 7    | 14   |
| 15° | 1078 | 184 | 10  | 1    | 0    | 314  |
| 25° | 1741 | 260 | 3   | 0    | 0    | 786  |
| 35° | 1483 | 96  | 0   | 0    | 0    | 909  |
| 45° | 641  | 13  | 0   | 0    | 0    | 489  |
| 55° | 11   | 0   | 1   | 1    | 2    | 29   |
| 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°    | 19.7   | 19.7   | 19.7   | 19.7   | 19.7   | 19.7   | 19.7  | 19.7  | 19.7  | 19.7  | 19.7  |
| 2.5°  | 32.5   | 32.9   | 32.9   | 32.2   | 31.8   | 31.8   | 30.6  | 30.3  | 29.1  | 28.0  | 24.2  |
| 5°    | 59.0   | 57.9   | 56.4   | 56.4   | 53.0   | 51.1   | 48.4  | 45.4  | 43.1  | 39.3  | 28.0  |
| 7.5°  | 133.9  | 124.8  | 122.2  | 118.8  | 105.9  | 95.7   | 84.0  | 73.8  | 64.3  | 56.4  | 31.0  |
| 10°   | 337.8  | 320.0  | 305.3  | 275.4  | 238.0  | 202.0  | 168.7 | 130.1 | 103.7 | 82.5  | 33.3  |
| 12.5° | 680.6  | 656.7  | 628.4  | 573.9  | 503.9  | 414.2  | 334.8 | 250.1 | 175.5 | 121.4 | 34.0  |
| 15°   | 1077.8 | 1037.3 | 993.0  | 923.8  | 809.2  | 680.6  | 537.2 | 402.1 | 281.8 | 183.5 | 33.3  |
| 17.5° | 1401.6 | 1385.7 | 1320.3 | 1225.7 | 1085.3 | 919.7  | 743.0 | 558.4 | 380.2 | 240.2 | 31.0  |
| 20°   | 1640.7 | 1629.7 | 1550.7 | 1450.0 | 1291.9 | 1102.0 | 877.7 | 656.0 | 448.7 | 276.2 | 27.6  |
| 22.5° | 1756.1 | 1754.2 | 1697.1 | 1594.2 | 1426.6 | 1211.3 | 964.3 | 712.3 | 469.9 | 281.1 | 23.1  |
| 25°   | 1740.9 | 1747.8 | 1715.2 | 1638.8 | 1478.0 | 1256.3 | 990.0 | 712.3 | 454.3 | 260.3 | 19.3  |
| 27.5° | 1672.1 | 1676.6 | 1656.2 | 1597.6 | 1447.8 | 1223.8 | 954.1 | 666.6 | 409.3 | 223.6 | 15.9  |
| 30°   | 1624.8 | 1626.7 | 1601.3 | 1538.6 | 1379.7 | 1149.7 | 869.3 | 581.8 | 341.2 | 179.3 | 11.7  |
| 32.5° | 1567.3 | 1566.9 | 1537.4 | 1465.5 | 1290.4 | 1045.6 | 761.9 | 480.8 | 262.2 | 136.2 | 6.8   |
| 35°   | 1483.3 | 1473.9 | 1433.8 | 1350.9 | 1157.2 | 905.7  | 624.6 | 366.2 | 188.8 | 96.5  | 4.2   |
| 37.5° | 1367.9 | 1343.3 | 1286.6 | 1175.8 | 970.3  | 710.1  | 463.0 | 257.2 | 129.0 | 63.9  | 2.6   |
| 40°   | 1182.9 | 1156.8 | 1079.7 | 945.0  | 733.9  | 511.1  | 312.1 | 167.6 | 81.3  | 38.2  | 1.5   |
| 42.5° | 927.6  | 909.8  | 805.8  | 671.5  | 484.6  | 326.1  | 187.6 | 99.1  | 45.8  | 21.9  | 0.4   |
| 45°   | 640.8  | 617.8  | 536.1  | 422.2  | 290.9  | 180.8  | 105.2 | 51.8  | 26.1  | 13.2  | 0.0   |
| 47.5° | 353.7  | 325.3  | 278.1  | 218.7  | 146.4  | 95.0   | 53.0  | 28.0  | 14.8  | 6.4   | 0.0   |
| 50°   | 141.5  | 140.3  | 111.6  | 79.4   | 56.0   | 43.1   | 26.5  | 15.1  | 7.6   | 2.3   | 0.4   |
| 52.5° | 49.6   | 49.6   | 42.7   | 34.8   | 27.2   | 19.7   | 13.2  | 7.2   | 2.6   | 0.8   | 0.4   |
| 55°   | 11.0   | 12.1   | 11.3   | 10.6   | 10.2   | 8.7    | 5.7   | 2.6   | 0.8   | 0.0   | 0.4   |
| 57.5° | 1.1    | 1.1    | 1.1    | 1.5    | 1.9    | 1.9    | 1.5   | 0.8   | 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   | 0.8   |
| 62.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.0    | 0.0   | 0.0   | 0.4   | 0.4   | 0.8   |
| 65°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.4   | 0.4   | 0.8   |
| 67.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.4   | 0.4   | 0.8   |
| 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   | 0.8   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.4   | 0.4   | 0.4   | 0.8   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4    | 0.4   | 0.4   | 0.4   | 0.4   | 0.8   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.4   | 0.4   | 0.8   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.4   | 0.4   | 0.8   |
| 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°    | 19.7 | 19.7   | 19.7 | 19.7   | 19.7 |
| 2.5°  | 19.7 | 15.5   | 12.9 | 11.3   | 11.0 |
| 5°    | 18.5 | 11.7   | 8.3  | 7.2    | 6.8  |
| 7.5°  | 16.6 | 8.7    | 5.7  | 4.5    | 4.2  |
| 10°   | 14.4 | 6.4    | 3.8  | 2.6    | 2.6  |
| 12.5° | 12.1 | 4.9    | 2.3  | 1.1    | 0.8  |
| 15°   | 9.8  | 3.0    | 0.8  | 0.4    | 0.4  |
| 17.5° | 7.6  | 1.9    | 0.0  | 0.0    | 0.0  |
| 20°   | 6.1  | 0.8    | 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  | 0.8    | 0.8  |
| 50°   | 0.4  | 0.4    | 0.4  | 0.8    | 1.1  |
| 52.5° | 0.8  | 0.4    | 0.8  | 1.1    | 1.1  |
| 55°   | 0.8  | 0.8    | 1.1  | 1.5    | 1.5  |
| 57.5° | 0.8  | 0.8    | 1.1  | 1.5    | 1.5  |
| 60°   | 0.8  | 0.8    | 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    | 0.8  | 1.1    | 1.1  |
| 80°   | 1.1  | 0.8    | 0.8  | 0.8    | 0.8  |
| 82.5° | 1.1  | 0.8    | 0.8  | 0.8    | 0.8  |
| 85°   | 1.1  | 0.8    | 0.4  | 0.4    | 0.4  |
| 87.5° | 1.1  | 0.8    | 0.4  | 0.4    | 0.4  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)