

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: P1345319

Luminaire Tested: P3A13R30W2N902765DE010 E3A301WMH\_3500K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1345319  
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: P3A13R30W2N902765DE010 E3A301WMH\_3500K  
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 3500K CCT AND, 90CRI ,  
E3A301WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

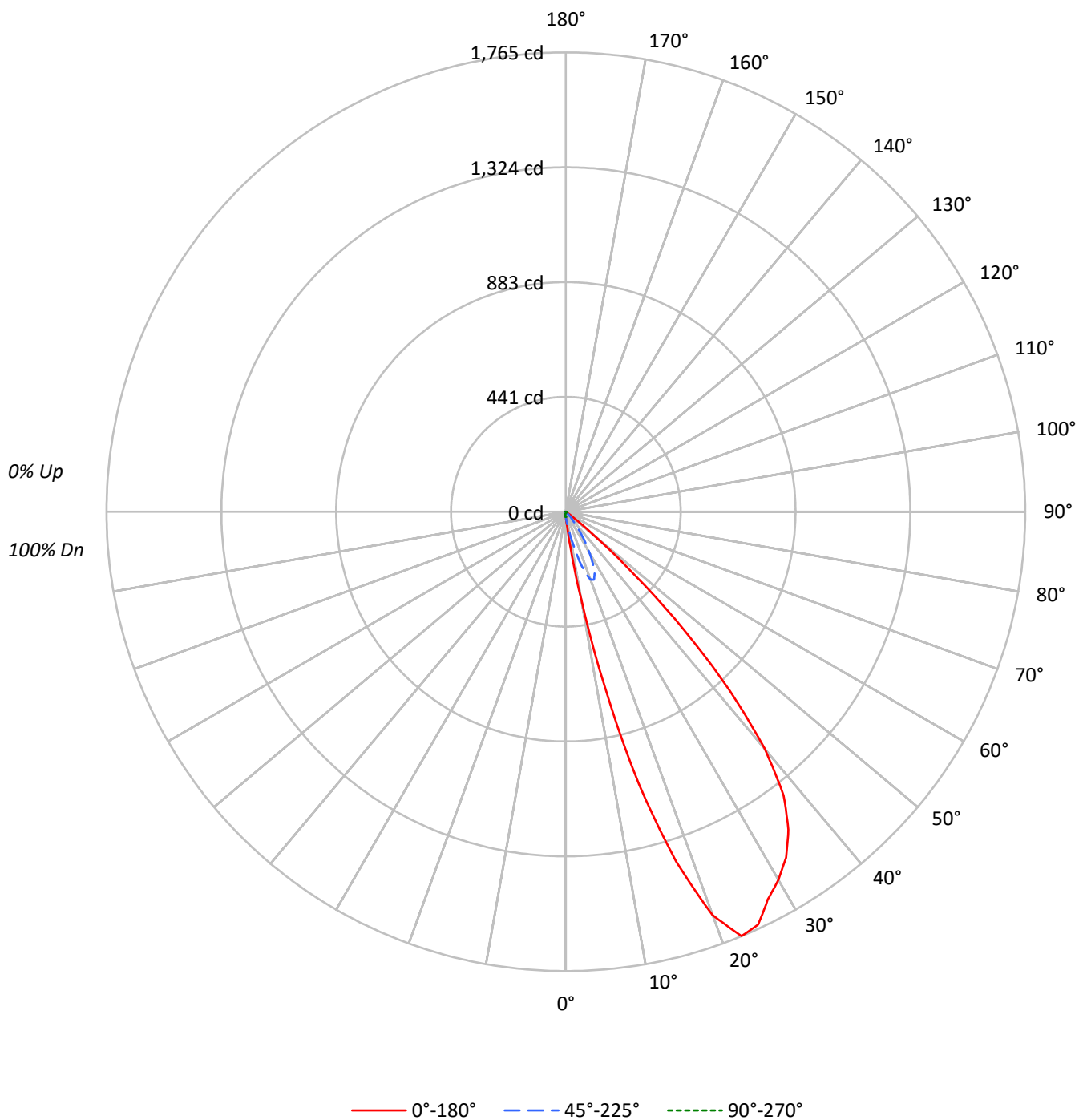
Lumens per Lamp: N/A  
Luminaire Lumens: 416.0 lumens  
Efficiency: N/A  
Efficacy: 33.8 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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  |     |    | 0  |
| 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°  | 4342   | 4342  | 4342 | 4342 | 4342 |
| 5°  | 13053  | 8695  | 4094 | 1849 | 1497 |
| 10° | 75594  | 18459 | 3206 | 846  | 601  |
| 15° | 245858 | 41862 | 2247 | 182  | 91   |
| 20° | 384707 | 64756 | 1423 | 0    | 0    |
| 25° | 423266 | 63270 | 726  | 0    | 0    |
| 30° | 413405 | 45627 | 279  | 0    | 0    |
| 35° | 398995 | 25939 | 107  | 0    | 0    |
| 40° | 340266 | 10992 | 0    | 0    | 0    |
| 45° | 199680 | 4124  | 124  | 0    | 124  |
| 50° | 48510  | 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: 199680 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.6    | 0.9       |
| 10°-20°   | 57.2   | 13.7      |
| 20°-30°   | 145.3  | 34.9      |
| 30°-40°   | 144.8  | 34.8      |
| 40°-50°   | 58.7   | 14.1      |
| 50°-60°   | 4.1    | 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°    | 206.1  | 49.5      |
| 0°-40°    | 350.9  | 84.4      |
| 0°-60°    | 413.7  | 99.4      |
| 0°-90°    | 416.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 416.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 20   | 20  | 20  | 20   | 20   |      |
| 5°  | 59   | 40  | 19  | 8    | 7    | 14   |
| 15° | 1083 | 184 | 10  | 1    | 0    | 315  |
| 25° | 1749 | 262 | 3   | 0    | 0    | 790  |
| 35° | 1490 | 97  | 0   | 0    | 0    | 914  |
| 45° | 644  | 13  | 0   | 0    | 0    | 491  |
| 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°    | 19.8   | 19.8   | 19.8   | 19.8   | 19.8   | 19.8   | 19.8  | 19.8  | 19.8  | 19.8  | 19.8  |
| 2.5°  | 32.7   | 33.1   | 33.1   | 32.3   | 31.9   | 31.9   | 30.8  | 30.4  | 29.3  | 28.1  | 24.3  |
| 5°    | 59.3   | 58.2   | 56.6   | 56.6   | 53.2   | 51.3   | 48.7  | 45.6  | 43.3  | 39.5  | 28.1  |
| 7.5°  | 134.6  | 125.4  | 122.8  | 119.4  | 106.4  | 96.2   | 84.4  | 74.1  | 64.6  | 56.6  | 31.2  |
| 10°   | 339.5  | 321.6  | 306.8  | 276.7  | 239.1  | 203.0  | 169.5 | 130.8 | 104.2 | 82.9  | 33.5  |
| 12.5° | 683.9  | 659.9  | 631.4  | 576.7  | 506.3  | 416.2  | 336.4 | 251.3 | 176.4 | 122.0 | 34.2  |
| 15°   | 1083.0 | 1042.3 | 997.8  | 928.3  | 813.1  | 683.9  | 539.8 | 404.1 | 283.2 | 184.4 | 33.5  |
| 17.5° | 1408.4 | 1392.4 | 1326.6 | 1231.6 | 1090.6 | 924.1  | 746.6 | 561.1 | 382.0 | 241.4 | 31.2  |
| 20°   | 1648.6 | 1637.6 | 1558.1 | 1457.0 | 1298.1 | 1107.3 | 881.9 | 659.1 | 450.8 | 277.5 | 27.7  |
| 22.5° | 1764.6 | 1762.7 | 1705.3 | 1601.9 | 1433.5 | 1217.2 | 968.9 | 715.8 | 472.1 | 282.4 | 23.2  |
| 25°   | 1749.4 | 1756.2 | 1723.5 | 1646.7 | 1485.2 | 1262.4 | 994.8 | 715.8 | 456.5 | 261.5 | 19.4  |
| 27.5° | 1680.2 | 1684.7 | 1664.2 | 1605.3 | 1454.8 | 1229.7 | 958.7 | 669.8 | 411.3 | 224.7 | 16.0  |
| 30°   | 1632.7 | 1634.6 | 1609.1 | 1546.0 | 1386.3 | 1155.2 | 873.5 | 584.6 | 342.9 | 180.2 | 11.8  |
| 32.5° | 1574.9 | 1574.5 | 1544.8 | 1472.6 | 1296.6 | 1050.7 | 765.6 | 483.1 | 263.4 | 136.8 | 6.8   |
| 35°   | 1490.5 | 1481.0 | 1440.7 | 1357.4 | 1162.8 | 910.0  | 627.6 | 368.0 | 189.7 | 96.9  | 4.2   |
| 37.5° | 1374.5 | 1349.8 | 1292.8 | 1181.4 | 975.0  | 713.5  | 465.3 | 258.5 | 129.6 | 64.2  | 2.7   |
| 40°   | 1188.7 | 1162.4 | 1084.9 | 949.6  | 737.4  | 513.6  | 313.6 | 168.4 | 81.7  | 38.4  | 1.5   |
| 42.5° | 932.1  | 914.2  | 809.7  | 674.7  | 486.9  | 327.7  | 188.5 | 99.6  | 46.0  | 22.0  | 0.4   |
| 45°   | 643.9  | 620.8  | 538.6  | 424.2  | 292.3  | 181.7  | 105.7 | 52.1  | 26.2  | 13.3  | 0.0   |
| 47.5° | 355.4  | 326.9  | 279.4  | 219.7  | 147.1  | 95.4   | 53.2  | 28.1  | 14.8  | 6.5   | 0.0   |
| 50°   | 142.2  | 141.0  | 112.1  | 79.8   | 56.3   | 43.3   | 26.6  | 15.2  | 7.6   | 2.3   | 0.4   |
| 52.5° | 49.8   | 49.8   | 43.0   | 35.0   | 27.4   | 19.8   | 13.3  | 7.2   | 2.7   | 0.8   | 0.4   |
| 55°   | 11.0   | 12.2   | 11.4   | 10.6   | 10.3   | 8.7    | 5.7   | 2.7   | 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°    | 19.8 | 19.8   | 19.8 | 19.8   | 19.8 |
| 2.5°  | 19.8 | 15.6   | 12.9 | 11.4   | 11.0 |
| 5°    | 18.6 | 11.8   | 8.4  | 7.2    | 6.8  |
| 7.5°  | 16.7 | 8.7    | 5.7  | 4.6    | 4.2  |
| 10°   | 14.4 | 6.5    | 3.8  | 2.7    | 2.7  |
| 12.5° | 12.2 | 4.9    | 2.3  | 1.1    | 0.8  |
| 15°   | 9.9  | 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° | 4.6  | 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)