

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: P1345820

Luminaire Tested: P3A13R35W2N902765DE010 E3A301MW\_4000K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1345820  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-63)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R35W2N902765DE010 E3A301MW\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R35 optic, 4000K CCT AND, 90CRI ,  
E3A301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

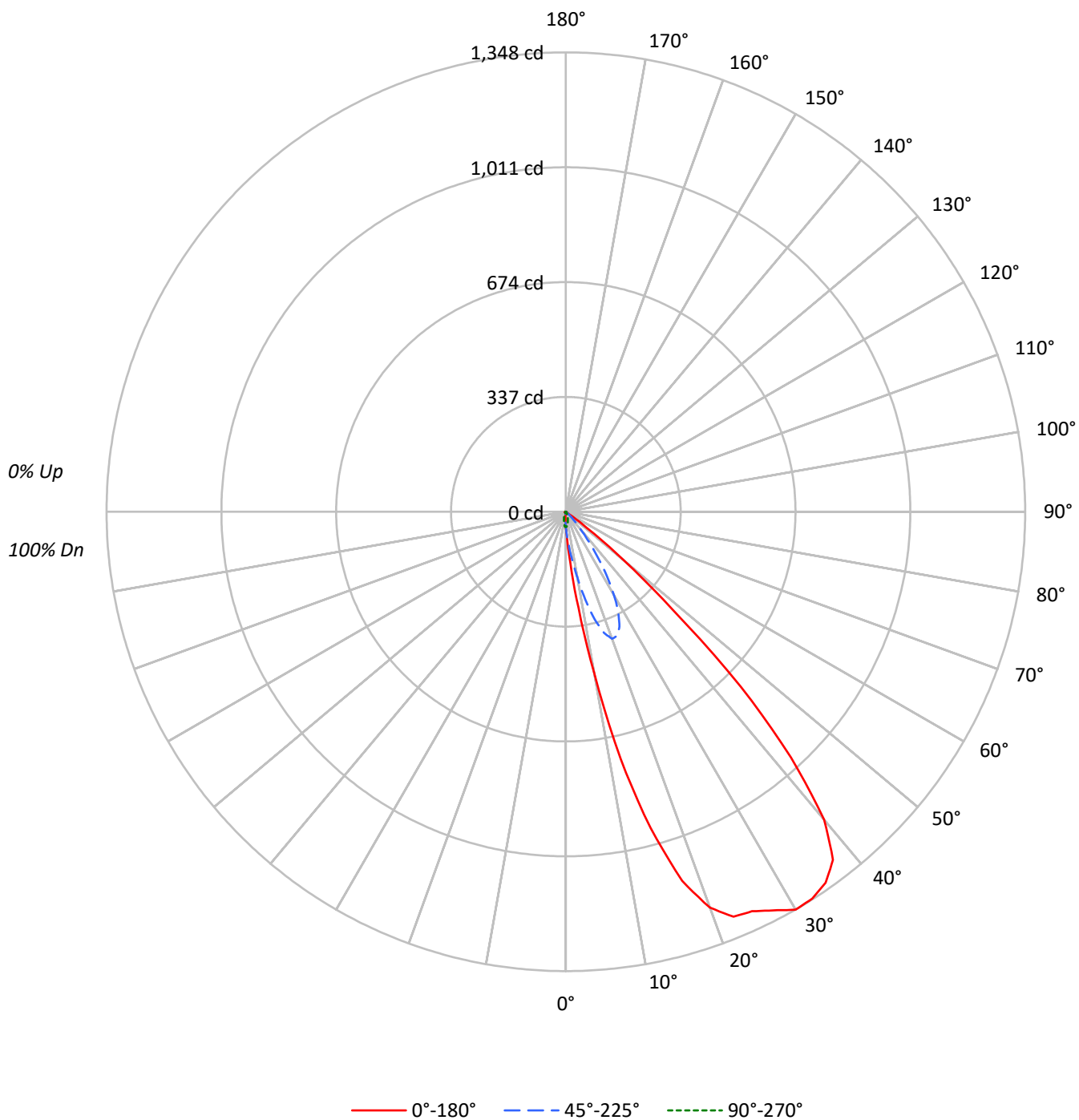
Lumens per Lamp: N/A  
Luminaire Lumens: 424.0 lumens  
Efficiency: N/A  
Efficacy: 34.5 lumens/watt  
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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 | 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 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 87  | 84  | 83  |    |    |
| 3   | 99  | 91  | 85  | 81  | 97  | 90  | 84  | 80  | 87  | 83  | 79  | 85  | 81  | 77  | 82  | 79  | 76  | 74  |    |    |
| 4   | 92  | 83  | 77  | 72  | 91  | 82  | 76  | 71  | 80  | 75  | 71  | 78  | 73  | 70  | 76  | 72  | 69  | 67  |    |    |
| 5   | 86  | 76  | 69  | 64  | 85  | 75  | 69  | 64  | 74  | 68  | 63  | 72  | 67  | 63  | 70  | 66  | 62  | 61  |    |    |
| 6   | 81  | 70  | 63  | 58  | 79  | 69  | 62  | 58  | 68  | 62  | 57  | 66  | 61  | 57  | 65  | 60  | 56  | 55  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 55  | 51  | 60  | 55  | 51  | 49  |    |    |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 46  | 45  |    |    |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 43  | 52  | 46  | 42  | 51  | 46  | 42  | 41  |    |    |
| 10  | 62  | 50  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 47  | 42  | 39  | 37  |    |    |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 9758   | 9758  | 9758 | 9758 | 9758 |
| 5°  | 33260  | 21616 | 9135 | 3852 | 2840 |
| 10° | 107034 | 43820 | 7214 | 1447 | 935  |
| 15° | 218094 | 74302 | 5108 | 522  | 341  |
| 20° | 288378 | 92548 | 3290 | 187  | 187  |
| 25° | 312913 | 89981 | 1839 | 97   | 194  |
| 30° | 341344 | 71707 | 760  | 101  | 203  |
| 35° | 355683 | 44624 | 214  | 107  | 214  |
| 40° | 337518 | 19494 | 115  | 229  | 315  |
| 45° | 225326 | 7784  | 124  | 341  | 589  |
| 50° | 75563  | 1296  | 273  | 512  | 785  |
| 55° | 4205   | 153   | 306  | 726  | 1032 |
| 60° | 351    | 175   | 482  | 833  | 1184 |
| 65° | 415    | 208   | 571  | 986  | 1401 |
| 70° | 256    | 256   | 705  | 1218 | 1475 |
| 75° | 339    | 339   | 932  | 1271 | 1610 |
| 80° | 0      | 505   | 1389 | 1389 | 1389 |
| 85° | 0      | 1006  | 2768 | 1006 | 2013 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 225326 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 7.7    | 1.8       |
| 10°-20°   | 60.9   | 14.4      |
| 20°-30°   | 128.5  | 30.3      |
| 30°-40°   | 145.8  | 34.4      |
| 40°-50°   | 71.8   | 16.9      |
| 50°-60°   | 6.2    | 1.5       |
| 60°-70°   | 1.3    | 0.3       |
| 70°-80°   | 1.2    | 0.3       |
| 80°-90°   | 0.6    | 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°    | 197.2  | 46.5      |
| 0°-40°    | 343.0  | 80.9      |
| 0°-60°    | 421.0  | 99.3      |
| 0°-90°    | 424.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 424.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 44   | 44  | 44  | 44   | 44   |      |
| 5°  | 151  | 98  | 42  | 18   | 13   | 25   |
| 15° | 961  | 327 | 22  | 2    | 2    | 273  |
| 25° | 1293 | 372 | 8   | 0    | 1    | 602  |
| 35° | 1329 | 167 | 1   | 0    | 1    | 819  |
| 45° | 727  | 25  | 0   | 1    | 2    | 537  |
| 55° | 11   | 0   | 1   | 2    | 3    | 43   |
| 65° | 1    | 0   | 1   | 2    | 3    | 1    |
| 75° | 0    | 0   | 1   | 2    | 2    | 0    |
| 85° | 0    | 0   | 1   | 0    | 1    | 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°    | 44.5   | 44.5   | 44.5   | 44.5   | 44.5   | 44.5   | 44.5  | 44.5  | 44.5  | 44.5  | 44.5  |
| 2.5°  | 77.3   | 79.2   | 78.4   | 78.0   | 77.6   | 76.1   | 72.7  | 72.3  | 68.9  | 66.6  | 55.2  |
| 5°    | 151.1  | 148.1  | 148.8  | 144.6  | 139.3  | 131.7  | 126.7 | 116.1 | 107.3 | 98.2  | 64.3  |
| 7.5°  | 284.7  | 280.5  | 272.5  | 260.3  | 247.8  | 231.4  | 206.7 | 186.9 | 164.0 | 142.3 | 71.6  |
| 10°   | 480.7  | 478.4  | 468.1  | 436.9  | 409.5  | 365.8  | 324.7 | 281.3 | 238.6 | 196.8 | 76.5  |
| 12.5° | 742.6  | 727.0  | 708.3  | 666.8  | 612.8  | 558.0  | 476.9 | 401.9 | 333.8 | 263.8 | 76.9  |
| 15°   | 960.7  | 950.8  | 924.5  | 870.5  | 805.4  | 726.2  | 629.9 | 529.0 | 426.3 | 327.3 | 73.1  |
| 17.5° | 1136.1 | 1120.9 | 1087.0 | 1034.1 | 959.1  | 856.4  | 743.7 | 620.8 | 495.6 | 372.6 | 66.6  |
| 20°   | 1235.8 | 1227.8 | 1202.0 | 1149.1 | 1067.2 | 954.9  | 826.7 | 683.6 | 538.9 | 396.6 | 58.2  |
| 22.5° | 1286.1 | 1280.4 | 1261.3 | 1219.1 | 1142.6 | 1029.5 | 882.6 | 716.3 | 551.5 | 393.9 | 49.5  |
| 25°   | 1293.3 | 1291.8 | 1275.4 | 1243.4 | 1179.5 | 1067.6 | 907.0 | 722.4 | 541.2 | 371.9 | 41.1  |
| 27.5° | 1318.4 | 1313.1 | 1293.7 | 1261.7 | 1197.4 | 1074.1 | 898.6 | 701.5 | 508.1 | 333.0 | 34.3  |
| 30°   | 1348.1 | 1344.3 | 1324.9 | 1291.8 | 1215.7 | 1068.0 | 868.9 | 655.0 | 455.2 | 283.2 | 25.5  |
| 32.5° | 1345.8 | 1344.3 | 1327.9 | 1292.9 | 1202.7 | 1032.2 | 816.0 | 585.4 | 383.3 | 223.4 | 16.0  |
| 35°   | 1328.7 | 1323.4 | 1302.8 | 1248.8 | 1128.9 | 940.1  | 715.5 | 491.0 | 303.3 | 166.7 | 10.3  |
| 37.5° | 1287.6 | 1276.2 | 1241.5 | 1149.8 | 996.8  | 798.1  | 582.7 | 379.1 | 214.7 | 111.5 | 6.5   |
| 40°   | 1179.1 | 1164.7 | 1095.0 | 984.3  | 824.0  | 628.8  | 433.5 | 260.7 | 141.6 | 68.1  | 2.7   |
| 42.5° | 978.2  | 948.9  | 879.2  | 765.4  | 615.1  | 444.6  | 284.7 | 169.0 | 83.4  | 41.1  | 0.8   |
| 45°   | 726.6  | 704.1  | 631.0  | 527.9  | 403.1  | 285.1  | 172.4 | 91.3  | 46.1  | 25.1  | 0.4   |
| 47.5° | 423.2  | 409.5  | 371.9  | 304.1  | 222.7  | 149.6  | 88.3  | 49.1  | 27.0  | 12.2  | 0.4   |
| 50°   | 221.5  | 204.4  | 175.8  | 133.2  | 98.2   | 68.9   | 43.0  | 26.3  | 13.3  | 3.8   | 0.4   |
| 52.5° | 77.6   | 76.5   | 69.7   | 52.5   | 42.6   | 30.8   | 20.9  | 11.4  | 3.8   | 0.8   | 0.4   |
| 55°   | 11.0   | 11.0   | 10.3   | 11.4   | 12.2   | 11.0   | 7.2   | 3.0   | 0.8   | 0.4   | 0.4   |
| 57.5° | 0.8    | 0.8    | 0.8    | 1.1    | 1.5    | 1.5    | 1.1   | 0.4   | 0.4   | 0.4   | 0.8   |
| 60°   | 0.8    | 0.8    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.4   | 0.4   | 0.8   |
| 62.5° | 0.8    | 0.8    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.4   | 0.4   | 0.8   |
| 65°   | 0.8    | 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°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.4   | 0.4   | 1.1   |
| 77.5° | 0.0    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.4   | 0.4   | 1.1   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4   | 0.4   | 0.4   | 0.4   | 0.8   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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   | 0.4   | 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°    | 44.5 | 44.5   | 44.5 | 44.5   | 44.5 |
| 2.5°  | 44.2 | 35.4   | 28.2 | 24.7   | 23.6 |
| 5°    | 41.5 | 26.6   | 17.5 | 13.7   | 12.9 |
| 7.5°  | 36.9 | 19.0   | 10.7 | 7.6    | 7.2  |
| 10°   | 32.4 | 13.7   | 6.5  | 4.6    | 4.2  |
| 12.5° | 27.0 | 9.5    | 4.2  | 2.7    | 2.3  |
| 15°   | 22.5 | 6.5    | 2.3  | 1.9    | 1.5  |
| 17.5° | 17.9 | 4.2    | 1.5  | 1.1    | 1.5  |
| 20°   | 14.1 | 2.7    | 0.8  | 0.8    | 0.8  |
| 22.5° | 10.7 | 1.5    | 0.8  | 0.8    | 0.8  |
| 25°   | 7.6  | 0.8    | 0.4  | 0.4    | 0.8  |
| 27.5° | 5.3  | 0.4    | 0.4  | 0.4    | 0.8  |
| 30°   | 3.0  | 0.4    | 0.4  | 0.4    | 0.8  |
| 32.5° | 1.5  | 0.4    | 0.4  | 0.8    | 0.8  |
| 35°   | 0.8  | 0.4    | 0.4  | 0.8    | 0.8  |
| 37.5° | 0.4  | 0.4    | 0.4  | 0.8    | 1.1  |
| 40°   | 0.4  | 0.4    | 0.8  | 1.1    | 1.1  |
| 42.5° | 0.4  | 0.4    | 0.8  | 1.1    | 1.5  |
| 45°   | 0.4  | 0.8    | 1.1  | 1.5    | 1.9  |
| 47.5° | 0.8  | 0.8    | 1.5  | 1.9    | 2.3  |
| 50°   | 0.8  | 1.1    | 1.5  | 2.3    | 2.3  |
| 52.5° | 0.8  | 1.1    | 1.9  | 2.3    | 2.7  |
| 55°   | 0.8  | 1.5    | 1.9  | 2.7    | 2.7  |
| 57.5° | 1.1  | 1.5    | 1.9  | 2.7    | 2.7  |
| 60°   | 1.1  | 1.5    | 1.9  | 2.7    | 2.7  |
| 62.5° | 1.1  | 1.5    | 1.9  | 2.7    | 2.7  |
| 65°   | 1.1  | 1.5    | 1.9  | 2.7    | 2.7  |
| 67.5° | 1.1  | 1.5    | 1.9  | 2.3    | 2.7  |
| 70°   | 1.1  | 1.5    | 1.9  | 2.3    | 2.3  |
| 72.5° | 1.5  | 1.5    | 1.9  | 2.3    | 2.3  |
| 75°   | 1.1  | 1.5    | 1.5  | 1.9    | 1.9  |
| 77.5° | 1.1  | 1.1    | 1.1  | 1.5    | 1.5  |
| 80°   | 1.1  | 1.1    | 1.1  | 1.1    | 1.1  |
| 82.5° | 1.1  | 0.8    | 0.8  | 1.1    | 1.1  |
| 85°   | 1.1  | 0.8    | 0.4  | 0.8    | 0.8  |
| 87.5° | 0.8  | 0.8    | 0.4  | 0.4    | 0.4  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)