

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: P1345449

Luminaire Tested: P3A13R359035DE010 E3A301LI

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1345449  
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: P3A13R359035DE010 E3A301LI  
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 90CRI , E3A301LI TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

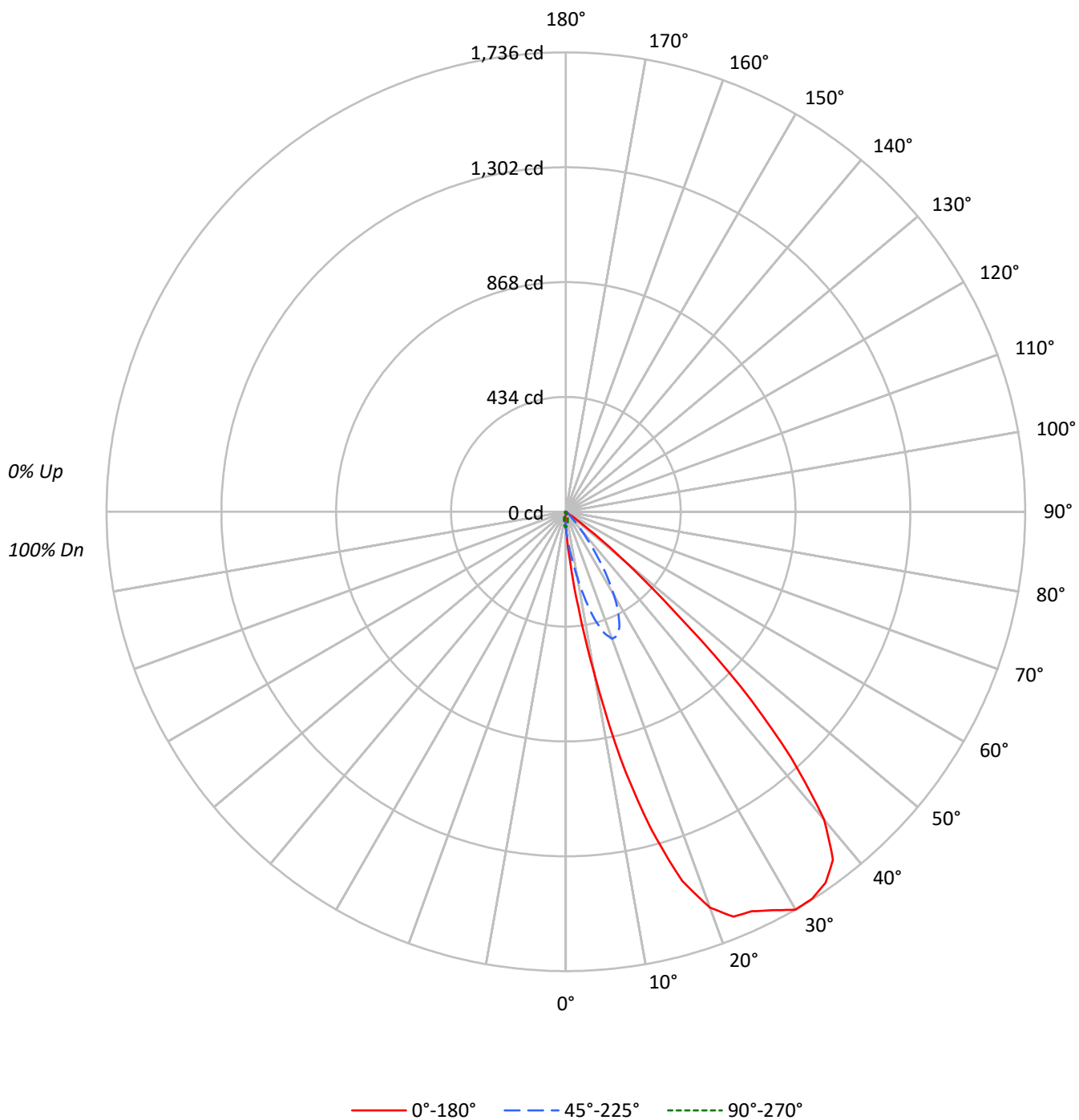
Lumens per Lamp: N/A  
Luminaire Lumens: 546.1 lumens  
Efficiency: N/A  
Efficacy: 37.4 lumens/watt  
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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 | 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  | 60  |    |    |
| 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°  | 12565  | 12565  | 12565 | 12565 | 12565 |
| 5°  | 42835  | 27845  | 11754 | 4953  | 3676  |
| 10° | 137829 | 56423  | 9285  | 1848  | 1202  |
| 15° | 280842 | 95687  | 6561  | 658   | 454   |
| 20° | 371359 | 119174 | 4224  | 233   | 233   |
| 25° | 402943 | 115870 | 2371  | 121   | 242   |
| 30° | 439561 | 92343  | 987   | 127   | 253   |
| 35° | 458021 | 57474  | 268   | 134   | 268   |
| 40° | 434643 | 25104  | 143   | 286   | 429   |
| 45° | 290139 | 10017  | 155   | 465   | 775   |
| 50° | 97327  | 1672   | 341   | 682   | 989   |
| 55° | 5429   | 191    | 382   | 956   | 1300  |
| 60° | 439    | 219    | 658   | 1096  | 1491  |
| 65° | 519    | 259    | 778   | 1297  | 1764  |
| 70° | 321    | 321    | 962   | 1603  | 1859  |
| 75° | 424    | 424    | 1271  | 1694  | 2118  |
| 80° | 0      | 631    | 1894  | 1894  | 1894  |
| 85° | 0      | 1258   | 3774  | 1258  | 2516  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 290139 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 10.0   | 1.8       |
| 10°-20°   | 78.4   | 14.4      |
| 20°-30°   | 165.5  | 30.3      |
| 30°-40°   | 187.8  | 34.4      |
| 40°-50°   | 92.4   | 16.9      |
| 50°-60°   | 8.0    | 1.5       |
| 60°-70°   | 1.6    | 0.3       |
| 70°-80°   | 1.5    | 0.3       |
| 80°-90°   | 0.8    | 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°    | 253.9  | 46.5      |
| 0°-40°    | 441.7  | 80.9      |
| 0°-60°    | 542.1  | 99.3      |
| 0°-90°    | 546.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 546.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 57   | 57  | 57  | 57   | 57   |      |
| 5°  | 195  | 126 | 53  | 22   | 17   | 32   |
| 15° | 1237 | 422 | 29  | 3    | 2    | 352  |
| 25° | 1665 | 479 | 10  | 0    | 1    | 775  |
| 35° | 1711 | 215 | 1   | 0    | 1    | 1055 |
| 45° | 936  | 32  | 0   | 2    | 2    | 691  |
| 55° | 14   | 0   | 1   | 2    | 3    | 56   |
| 65° | 1    | 0   | 2   | 2    | 3    | 1    |
| 75° | 0    | 0   | 2   | 2    | 2    | 0    |
| 85° | 0    | 0   | 2   | 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°    | 57.3   | 57.3   | 57.3   | 57.3   | 57.3   | 57.3   | 57.3   | 57.3  | 57.3  | 57.3  | 57.3  |
| 2.5°  | 99.5   | 101.9  | 101.0  | 100.5  | 100.0  | 98.0   | 93.6   | 93.1  | 88.7  | 85.8  | 71.1  |
| 5°    | 194.6  | 190.7  | 191.6  | 186.2  | 179.4  | 169.6  | 163.2  | 149.5 | 138.2 | 126.5 | 82.8  |
| 7.5°  | 366.6  | 361.2  | 350.9  | 335.2  | 319.1  | 298.0  | 266.1  | 240.7 | 211.2 | 183.3 | 92.1  |
| 10°   | 619.0  | 616.1  | 602.9  | 562.7  | 527.4  | 471.0  | 418.1  | 362.2 | 307.3 | 253.4 | 98.5  |
| 12.5° | 956.2  | 936.1  | 912.1  | 858.7  | 789.1  | 718.5  | 614.1  | 517.6 | 429.8 | 339.7 | 99.0  |
| 15°   | 1237.1 | 1224.3 | 1190.5 | 1120.9 | 1037.1 | 935.2  | 811.2  | 681.3 | 548.9 | 421.5 | 94.1  |
| 17.5° | 1463.0 | 1443.4 | 1399.8 | 1331.7 | 1235.1 | 1102.8 | 957.7  | 799.4 | 638.1 | 479.8 | 85.8  |
| 20°   | 1591.4 | 1581.1 | 1547.8 | 1479.7 | 1374.3 | 1229.7 | 1064.5 | 880.3 | 694.0 | 510.7 | 75.0  |
| 22.5° | 1656.1 | 1648.8 | 1624.3 | 1569.9 | 1471.4 | 1325.8 | 1136.6 | 922.4 | 710.2 | 507.3 | 63.7  |
| 25°   | 1665.4 | 1663.5 | 1642.4 | 1601.2 | 1518.9 | 1374.8 | 1168.0 | 930.3 | 697.0 | 478.9 | 52.9  |
| 27.5° | 1697.8 | 1690.9 | 1665.9 | 1624.8 | 1541.9 | 1383.1 | 1157.2 | 903.3 | 654.3 | 428.9 | 44.1  |
| 30°   | 1736.0 | 1731.1 | 1706.1 | 1663.5 | 1565.5 | 1375.3 | 1119.0 | 843.5 | 586.2 | 364.7 | 32.8  |
| 32.5° | 1733.1 | 1731.1 | 1710.0 | 1665.0 | 1548.8 | 1329.2 | 1050.8 | 753.8 | 493.6 | 287.7 | 20.6  |
| 35°   | 1711.0 | 1704.2 | 1677.7 | 1608.1 | 1453.7 | 1210.6 | 921.4  | 632.3 | 390.6 | 214.7 | 13.2  |
| 37.5° | 1658.1 | 1643.4 | 1598.8 | 1480.7 | 1283.6 | 1027.8 | 750.4  | 488.2 | 276.4 | 143.6 | 8.3   |
| 40°   | 1518.4 | 1499.8 | 1410.1 | 1267.5 | 1061.1 | 809.7  | 558.3  | 335.7 | 182.3 | 87.7  | 3.4   |
| 42.5° | 1259.6 | 1221.9 | 1132.2 | 985.6  | 792.0  | 572.5  | 366.6  | 217.6 | 107.3 | 52.9  | 1.0   |
| 45°   | 935.6  | 906.7  | 812.6  | 679.8  | 519.0  | 367.1  | 222.0  | 117.6 | 59.3  | 32.3  | 0.5   |
| 47.5° | 545.0  | 527.4  | 478.9  | 391.6  | 286.7  | 192.6  | 113.7  | 63.2  | 34.8  | 15.7  | 0.5   |
| 50°   | 285.3  | 263.2  | 226.4  | 171.5  | 126.5  | 88.7   | 55.4   | 33.8  | 17.2  | 4.9   | 0.5   |
| 52.5° | 100.0  | 98.5   | 89.7   | 67.6   | 54.9   | 39.7   | 27.0   | 14.7  | 4.9   | 1.0   | 0.5   |
| 55°   | 14.2   | 14.2   | 13.2   | 14.7   | 15.7   | 14.2   | 9.3    | 3.9   | 1.0   | 0.5   | 0.5   |
| 57.5° | 1.0    | 1.0    | 1.0    | 1.5    | 2.0    | 2.0    | 1.5    | 0.5   | 0.5   | 0.5   | 1.0   |
| 60°   | 1.0    | 1.0    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 0.5   | 1.0   |
| 62.5° | 1.0    | 1.0    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 0.5   | 1.0   |
| 65°   | 1.0    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 0.5   | 1.0   |
| 67.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 0.5   | 1.0   |
| 70°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 0.5   | 1.5   |
| 72.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 0.5   | 1.5   |
| 75°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 0.5   | 1.5   |
| 77.5° | 0.0    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 0.5   | 1.5   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5   | 0.5   | 0.5   | 1.0   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5   | 0.5   | 0.5   | 1.0   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5   | 0.5   | 0.5   | 1.0   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.5   | 0.5   | 1.0   |
| 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°    | 57.3 | 57.3   | 57.3 | 57.3   | 57.3 |
| 2.5°  | 56.9 | 45.6   | 36.3 | 31.9   | 30.4 |
| 5°    | 53.4 | 34.3   | 22.5 | 17.6   | 16.7 |
| 7.5°  | 47.5 | 24.5   | 13.7 | 9.8    | 9.3  |
| 10°   | 41.7 | 17.6   | 8.3  | 5.9    | 5.4  |
| 12.5° | 34.8 | 12.3   | 5.4  | 3.4    | 2.9  |
| 15°   | 28.9 | 8.3    | 2.9  | 2.5    | 2.0  |
| 17.5° | 23.0 | 5.4    | 2.0  | 1.5    | 2.0  |
| 20°   | 18.1 | 3.4    | 1.0  | 1.0    | 1.0  |
| 22.5° | 13.7 | 2.0    | 1.0  | 1.0    | 1.0  |
| 25°   | 9.8  | 1.0    | 0.5  | 0.5    | 1.0  |
| 27.5° | 6.9  | 0.5    | 0.5  | 0.5    | 1.0  |
| 30°   | 3.9  | 0.5    | 0.5  | 0.5    | 1.0  |
| 32.5° | 2.0  | 0.5    | 0.5  | 1.0    | 1.0  |
| 35°   | 1.0  | 0.5    | 0.5  | 1.0    | 1.0  |
| 37.5° | 0.5  | 0.5    | 0.5  | 1.0    | 1.5  |
| 40°   | 0.5  | 0.5    | 1.0  | 1.5    | 1.5  |
| 42.5° | 0.5  | 0.5    | 1.0  | 1.5    | 2.0  |
| 45°   | 0.5  | 1.0    | 1.5  | 2.0    | 2.5  |
| 47.5° | 1.0  | 1.0    | 2.0  | 2.5    | 2.9  |
| 50°   | 1.0  | 1.5    | 2.0  | 2.9    | 2.9  |
| 52.5° | 1.0  | 1.5    | 2.5  | 2.9    | 3.4  |
| 55°   | 1.0  | 2.0    | 2.5  | 3.4    | 3.4  |
| 57.5° | 1.5  | 2.0    | 2.5  | 3.4    | 3.4  |
| 60°   | 1.5  | 2.0    | 2.5  | 3.4    | 3.4  |
| 62.5° | 1.5  | 2.0    | 2.5  | 3.4    | 3.4  |
| 65°   | 1.5  | 2.0    | 2.5  | 3.4    | 3.4  |
| 67.5° | 1.5  | 2.0    | 2.5  | 2.9    | 3.4  |
| 70°   | 1.5  | 2.0    | 2.5  | 2.9    | 2.9  |
| 72.5° | 2.0  | 2.0    | 2.5  | 2.9    | 2.9  |
| 75°   | 1.5  | 2.0    | 2.0  | 2.5    | 2.5  |
| 77.5° | 1.5  | 1.5    | 1.5  | 2.0    | 2.0  |
| 80°   | 1.5  | 1.5    | 1.5  | 1.5    | 1.5  |
| 82.5° | 1.5  | 1.0    | 1.0  | 1.5    | 1.5  |
| 85°   | 1.5  | 1.0    | 0.5  | 1.0    | 1.0  |
| 87.5° | 1.0  | 1.0    | 0.5  | 0.5    | 0.5  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)