

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: P1345780

Luminaire Tested: P3A13R35W2N902750DE010 E3CA301MW\_3000K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1345780  
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: P3A13R35W2N902750DE010 E3CA301MW\_3000K  
Description: 3in Adjustable Tunable White LED luminaire with, R35 optic, 3000K CCT AND, 90CRI ,  
E3CA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

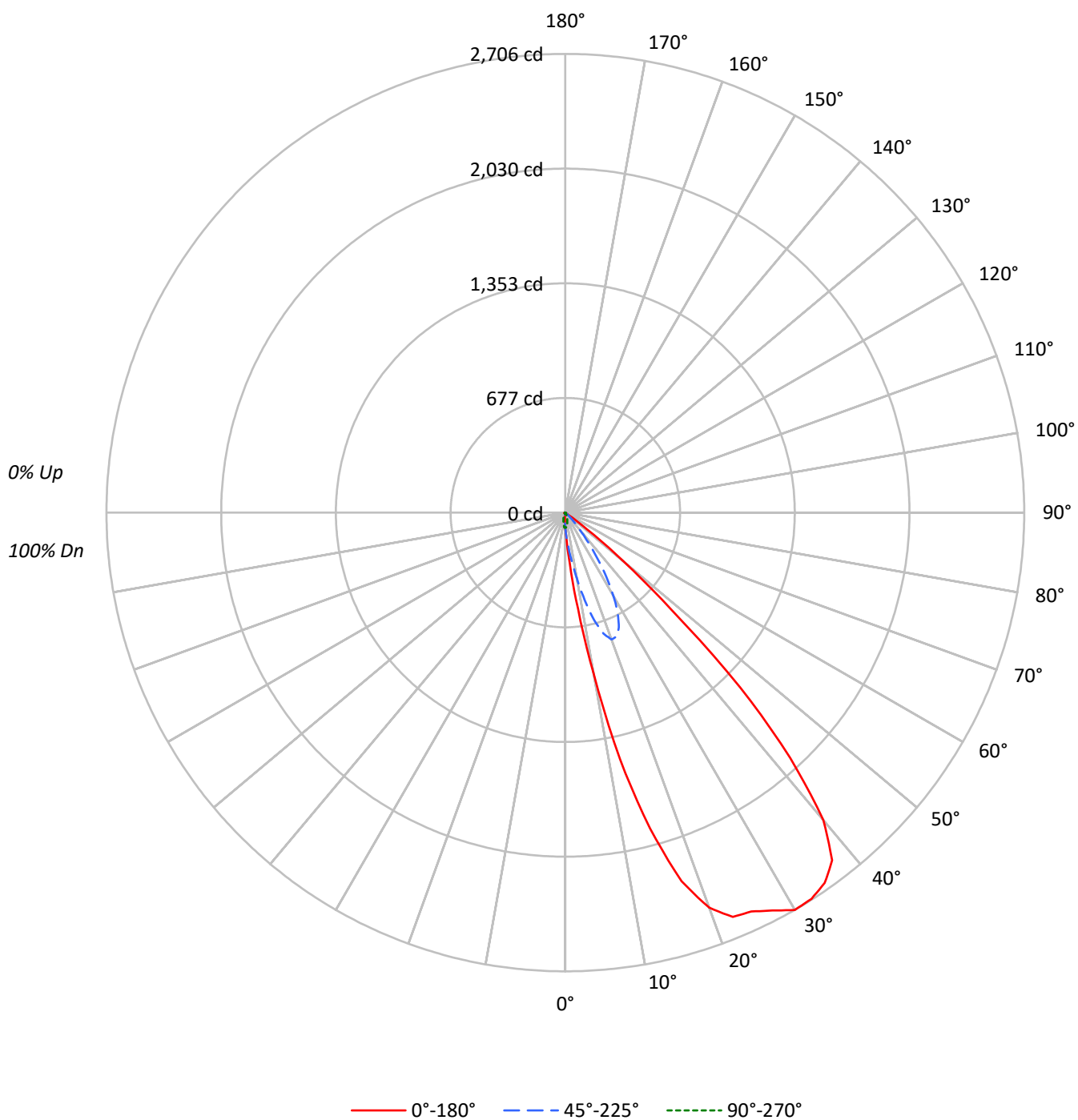
Lumens per Lamp: N/A  
Luminaire Lumens: 851.0 lumens  
Efficiency: N/A  
Efficacy: 69.2 lumens/watt  
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1345780

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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°  | 19604  | 19604  | 19604 | 19604 | 19604 |
| 5°  | 66762  | 43385  | 18336 | 7726  | 5723  |
| 10° | 214826 | 87930  | 14451 | 2895  | 1870  |
| 15° | 437710 | 149150 | 10238 | 1044  | 704   |
| 20° | 578810 | 185749 | 6604  | 350   | 350   |
| 25° | 628052 | 180567 | 3702  | 194   | 363   |
| 30° | 685118 | 143896 | 1545  | 203   | 380   |
| 35° | 713882 | 89570  | 402   | 214   | 402   |
| 40° | 677441 | 39130  | 229   | 429   | 658   |
| 45° | 452233 | 15630  | 248   | 713   | 1178  |
| 50° | 151671 | 2593   | 512   | 1058  | 1569  |
| 55° | 8487   | 306    | 573   | 1453  | 2026  |
| 60° | 658    | 351    | 1009  | 1667  | 2324  |
| 65° | 778    | 415    | 1193  | 1972  | 2750  |
| 70° | 513    | 513    | 1475  | 2436  | 2949  |
| 75° | 678    | 678    | 1949  | 2626  | 3219  |
| 80° | 0      | 1010   | 2904  | 2904  | 2904  |
| 85° | 0      | 2013   | 5787  | 2013  | 3774  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 452233 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 15.5   | 1.8       |
| 10°-20°   | 122.2  | 14.4      |
| 20°-30°   | 258.0  | 30.3      |
| 30°-40°   | 292.7  | 34.4      |
| 40°-50°   | 144.1  | 16.9      |
| 50°-60°   | 12.5   | 1.5       |
| 60°-70°   | 2.5    | 0.3       |
| 70°-80°   | 2.4    | 0.3       |
| 80°-90°   | 1.2    | 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°    | 395.7  | 46.5      |
| 0°-40°    | 688.4  | 80.9      |
| 0°-60°    | 844.9  | 99.3      |
| 0°-90°    | 851.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 851.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 89   | 89  | 89  | 89   | 89   |      |
| 5°  | 303  | 197 | 83  | 35   | 26   | 50   |
| 15° | 1928 | 657 | 45  | 5    | 3    | 548  |
| 25° | 2596 | 746 | 15  | 1    | 2    | 1208 |
| 35° | 2667 | 335 | 2   | 1    | 2    | 1644 |
| 45° | 1458 | 50  | 1   | 2    | 4    | 1077 |
| 55° | 22   | 1   | 2   | 4    | 5    | 87   |
| 65° | 2    | 1   | 2   | 4    | 5    | 1    |
| 75° | 1    | 1   | 2   | 3    | 4    | 1    |
| 85° | 0    | 1   | 2   | 1    | 2    | 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°    | 89.4   | 89.4   | 89.4   | 89.4   | 89.4   | 89.4   | 89.4   | 89.4   | 89.4   | 89.4  | 89.4  |
| 2.5°  | 155.1  | 158.9  | 157.4  | 156.6  | 155.8  | 152.8  | 145.9  | 145.1  | 138.3  | 133.7 | 110.8 |
| 5°    | 303.3  | 297.2  | 298.7  | 290.3  | 279.6  | 264.3  | 254.4  | 233.0  | 215.4  | 197.1 | 129.1 |
| 7.5°  | 571.4  | 563.0  | 547.0  | 522.5  | 497.3  | 464.5  | 414.8  | 375.1  | 329.2  | 285.7 | 143.6 |
| 10°   | 964.8  | 960.2  | 939.6  | 877.0  | 822.0  | 734.1  | 651.6  | 564.5  | 479.0  | 394.9 | 153.5 |
| 12.5° | 1490.4 | 1459.1 | 1421.6 | 1338.4 | 1229.9 | 1119.9 | 957.2  | 806.7  | 670.0  | 529.4 | 154.3 |
| 15°   | 1928.1 | 1908.2 | 1855.5 | 1747.1 | 1616.4 | 1457.5 | 1264.3 | 1061.8 | 855.6  | 657.0 | 146.7 |
| 17.5° | 2280.3 | 2249.7 | 2181.7 | 2075.5 | 1925.1 | 1718.8 | 1492.7 | 1245.9 | 994.6  | 747.9 | 133.7 |
| 20°   | 2480.4 | 2464.4 | 2412.4 | 2306.2 | 2142.0 | 1916.7 | 1659.2 | 1372.0 | 1081.7 | 796.0 | 116.9 |
| 22.5° | 2581.3 | 2569.8 | 2531.6 | 2446.8 | 2293.3 | 2066.4 | 1771.5 | 1437.7 | 1106.9 | 790.6 | 99.3  |
| 25°   | 2595.8 | 2592.7 | 2559.9 | 2495.7 | 2367.4 | 2142.8 | 1820.4 | 1449.9 | 1086.3 | 746.3 | 82.5  |
| 27.5° | 2646.2 | 2635.5 | 2596.5 | 2532.4 | 2403.3 | 2155.8 | 1803.6 | 1407.9 | 1019.8 | 668.4 | 68.8  |
| 30°   | 2705.8 | 2698.1 | 2659.2 | 2592.7 | 2439.9 | 2143.5 | 1744.0 | 1314.7 | 913.6  | 568.3 | 51.2  |
| 32.5° | 2701.2 | 2698.1 | 2665.3 | 2595.0 | 2414.0 | 2071.7 | 1637.8 | 1174.9 | 769.3  | 448.4 | 32.1  |
| 35°   | 2666.8 | 2656.1 | 2614.9 | 2506.4 | 2265.8 | 1886.9 | 1436.2 | 985.4  | 608.8  | 334.6 | 20.6  |
| 37.5° | 2584.3 | 2561.4 | 2491.9 | 2307.8 | 2000.7 | 1601.9 | 1169.5 | 760.9  | 430.8  | 223.8 | 13.0  |
| 40°   | 2366.6 | 2337.6 | 2197.8 | 1975.5 | 1653.9 | 1262.0 | 870.1  | 523.3  | 284.2  | 136.7 | 5.3   |
| 42.5° | 1963.3 | 1904.4 | 1764.6 | 1536.2 | 1234.5 | 892.2  | 571.4  | 339.2  | 167.3  | 82.5  | 1.5   |
| 45°   | 1458.3 | 1413.2 | 1266.6 | 1059.5 | 809.0  | 572.2  | 346.1  | 183.3  | 92.4   | 50.4  | 0.8   |
| 47.5° | 849.5  | 822.0  | 746.3  | 610.4  | 446.9  | 300.2  | 177.2  | 98.5   | 54.2   | 24.4  | 0.8   |
| 50°   | 444.6  | 410.2  | 352.9  | 267.4  | 197.1  | 138.3  | 86.3   | 52.7   | 26.7   | 7.6   | 0.8   |
| 52.5° | 155.8  | 153.5  | 139.8  | 105.4  | 85.6   | 61.9   | 42.0   | 22.9   | 7.6    | 1.5   | 0.8   |
| 55°   | 22.2   | 22.2   | 20.6   | 22.9   | 24.4   | 22.2   | 14.5   | 6.1    | 1.5    | 0.8   | 0.8   |
| 57.5° | 1.5    | 1.5    | 1.5    | 2.3    | 3.1    | 3.1    | 2.3    | 0.8    | 0.8    | 0.8   | 1.5   |
| 60°   | 1.5    | 1.5    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 1.5   |
| 62.5° | 1.5    | 1.5    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 1.5   |
| 65°   | 1.5    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 1.5   |
| 67.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 1.5   |
| 70°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 2.3   |
| 72.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 2.3   |
| 75°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 2.3   |
| 77.5° | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 2.3   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8   | 1.5   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8   | 1.5   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8   | 1.5   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8   | 1.5   |
| 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°    | 89.4 | 89.4   | 89.4 | 89.4   | 89.4 |
| 2.5°  | 88.6 | 71.0   | 56.5 | 49.7   | 47.4 |
| 5°    | 83.3 | 53.5   | 35.1 | 27.5   | 26.0 |
| 7.5°  | 74.1 | 38.2   | 21.4 | 15.3   | 14.5 |
| 10°   | 64.9 | 27.5   | 13.0 | 9.2    | 8.4  |
| 12.5° | 54.2 | 19.1   | 8.4  | 5.3    | 4.6  |
| 15°   | 45.1 | 13.0   | 4.6  | 3.8    | 3.1  |
| 17.5° | 35.9 | 8.4    | 3.1  | 2.3    | 3.1  |
| 20°   | 28.3 | 5.3    | 1.5  | 1.5    | 1.5  |
| 22.5° | 21.4 | 3.1    | 1.5  | 1.5    | 1.5  |
| 25°   | 15.3 | 1.5    | 0.8  | 0.8    | 1.5  |
| 27.5° | 10.7 | 0.8    | 0.8  | 0.8    | 1.5  |
| 30°   | 6.1  | 0.8    | 0.8  | 0.8    | 1.5  |
| 32.5° | 3.1  | 0.8    | 0.8  | 1.5    | 1.5  |
| 35°   | 1.5  | 0.8    | 0.8  | 1.5    | 1.5  |
| 37.5° | 0.8  | 0.8    | 0.8  | 1.5    | 2.3  |
| 40°   | 0.8  | 0.8    | 1.5  | 2.3    | 2.3  |
| 42.5° | 0.8  | 0.8    | 1.5  | 2.3    | 3.1  |
| 45°   | 0.8  | 1.5    | 2.3  | 3.1    | 3.8  |
| 47.5° | 1.5  | 1.5    | 3.1  | 3.8    | 4.6  |
| 50°   | 1.5  | 2.3    | 3.1  | 4.6    | 4.6  |
| 52.5° | 1.5  | 2.3    | 3.8  | 4.6    | 5.3  |
| 55°   | 1.5  | 3.1    | 3.8  | 5.3    | 5.3  |
| 57.5° | 2.3  | 3.1    | 3.8  | 5.3    | 5.3  |
| 60°   | 2.3  | 3.1    | 3.8  | 5.3    | 5.3  |
| 62.5° | 2.3  | 3.1    | 3.8  | 5.3    | 5.3  |
| 65°   | 2.3  | 3.1    | 3.8  | 5.3    | 5.3  |
| 67.5° | 2.3  | 3.1    | 3.8  | 4.6    | 5.3  |
| 70°   | 2.3  | 3.1    | 3.8  | 4.6    | 4.6  |
| 72.5° | 3.1  | 3.1    | 3.8  | 4.6    | 4.6  |
| 75°   | 2.3  | 3.1    | 3.1  | 3.8    | 3.8  |
| 77.5° | 2.3  | 2.3    | 2.3  | 3.1    | 3.1  |
| 80°   | 2.3  | 2.3    | 2.3  | 2.3    | 2.3  |
| 82.5° | 2.3  | 1.5    | 1.5  | 2.3    | 2.3  |
| 85°   | 2.3  | 1.5    | 0.8  | 1.5    | 1.5  |
| 87.5° | 1.5  | 1.5    | 0.8  | 0.8    | 0.8  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)