

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: P1344899

Luminaire Tested: P3A13R309027DE010 E3CA301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1344899  
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: P3A13R309027DE010 E3CA301MW  
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 90CRI , E3CA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

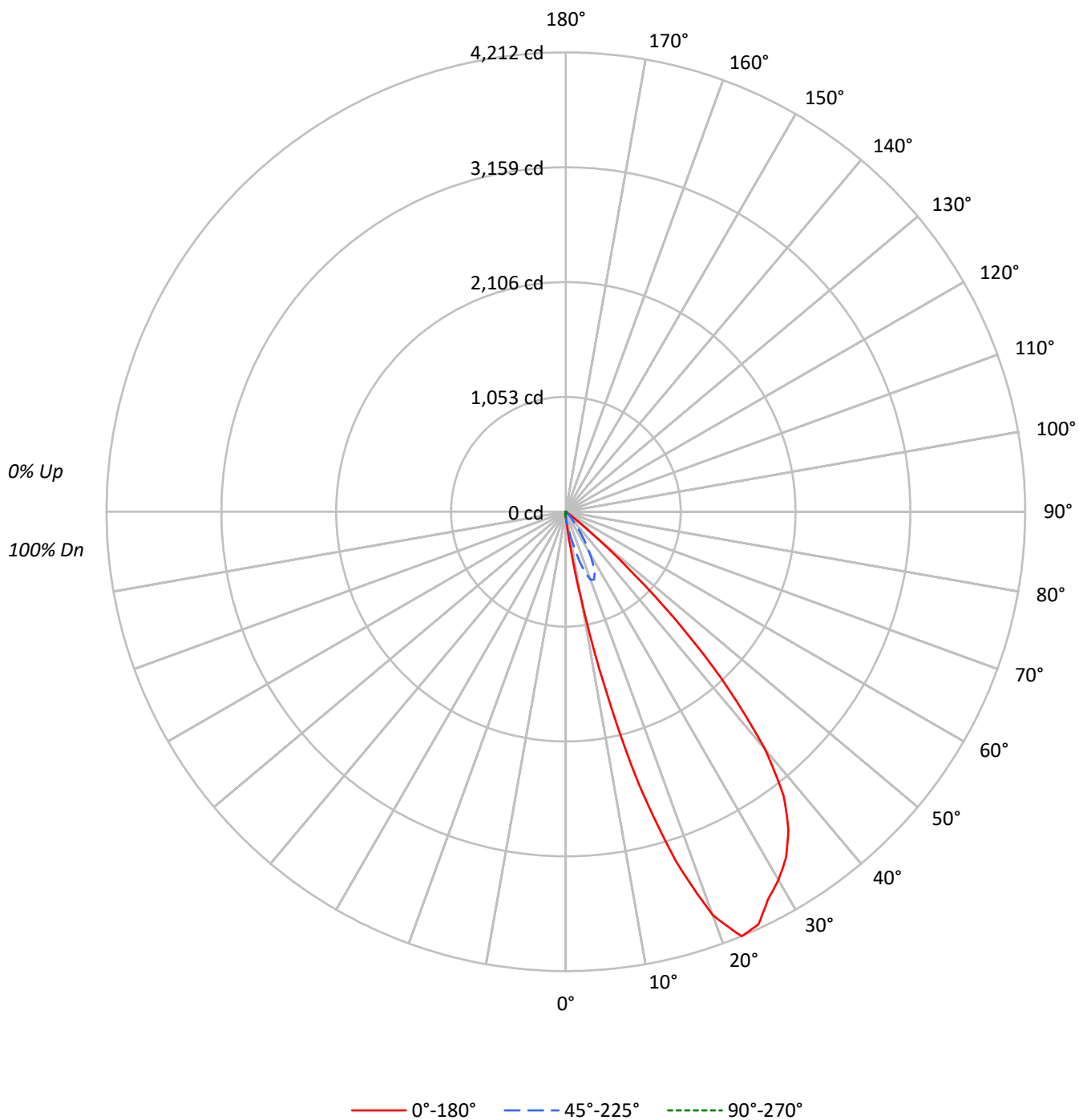
Lumens per Lamp: N/A  
Luminaire Lumens: 992.9 lumens  
Efficiency: N/A  
Efficacy: 68.0 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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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CATALOG NUMBER: P3A13R309027DE010 E3CA301MW

### 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   | 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°  | 10350   | 10350  | 10350 | 10350 | 10350 |
| 5°  | 31169   | 20779  | 9795  | 4402  | 3588  |
| 10° | 180424  | 44043  | 7682  | 2026  | 1425  |
| 15° | 586859  | 99910  | 5358  | 409   | 204   |
| 20° | 918317  | 154573 | 3384  | 0     | 0     |
| 25° | 1010308 | 151049 | 1766  | 0     | 0     |
| 30° | 986785  | 108903 | 684   | 0     | 0     |
| 35° | 952396  | 61944  | 241   | 0     | 0     |
| 40° | 812207  | 26221  | 0     | 0     | 0     |
| 45° | 476670  | 9861   | 279   | 0     | 279   |
| 50° | 115783  | 1842   | 307   | 307   | 921   |
| 55° | 10055   | 0      | 688   | 1032  | 1376  |
| 60° | 395     | 0      | 789   | 1184  | 1974  |
| 65° | 467     | 467    | 1401  | 1401  | 2335  |
| 70° | 577     | 577    | 1731  | 1731  | 2308  |
| 75° | 0       | 763    | 2288  | 2288  | 2288  |
| 80° | 0       | 1137   | 3410  | 2273  | 2273  |
| 85° | 0       | 2264   | 6793  | 2264  | 2264  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 476670 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 8.7    | 0.9       |
| 10°-20°   | 136.5  | 13.7      |
| 20°-30°   | 346.8  | 34.9      |
| 30°-40°   | 345.7  | 34.8      |
| 40°-50°   | 140.0  | 14.1      |
| 50°-60°   | 9.7    | 1.0       |
| 60°-70°   | 2.2    | 0.2       |
| 70°-80°   | 2.2    | 0.2       |
| 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       |
| <hr/>     |        |           |
| 0°-30°    | 492.0  | 49.5      |
| 0°-40°    | 837.7  | 84.4      |
| 0°-60°    | 987.4  | 99.4      |
| 0°-90°    | 992.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 992.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 47   | 47  | 47  | 47   | 47   |      |
| 5°  | 142  | 94  | 44  | 20   | 16   | 33   |
| 15° | 2585 | 440 | 24  | 2    | 1    | 752  |
| 25° | 4176 | 624 | 7   | 0    | 0    | 1885 |
| 35° | 3558 | 231 | 1   | 0    | 0    | 2181 |
| 45° | 1537 | 32  | 1   | 0    | 1    | 1173 |
| 55° | 26   | 0   | 2   | 3    | 4    | 69   |
| 65° | 1    | 1   | 3   | 3    | 4    | 1    |
| 75° | 0    | 1   | 3   | 3    | 3    | 0    |
| 85° | 0    | 1   | 3   | 1    | 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°    | 47.2   | 47.2   | 47.2   | 47.2   | 47.2   | 47.2   | 47.2   | 47.2   | 47.2   | 47.2  | 47.2  |
| 2.5°  | 78.0   | 78.9   | 78.9   | 77.1   | 76.2   | 76.2   | 73.5   | 72.6   | 69.9   | 67.1  | 58.1  |
| 5°    | 141.6  | 138.8  | 135.2  | 135.2  | 127.0  | 122.5  | 116.1  | 108.9  | 103.4  | 94.4  | 67.1  |
| 7.5°  | 321.2  | 299.4  | 293.1  | 284.9  | 254.1  | 229.6  | 201.4  | 176.9  | 154.3  | 135.2 | 74.4  |
| 10°   | 810.3  | 767.6  | 732.3  | 660.6  | 570.7  | 484.5  | 404.7  | 312.1  | 248.6  | 197.8 | 79.8  |
| 12.5° | 1632.4 | 1575.2 | 1507.1 | 1376.5 | 1208.6 | 993.6  | 803.0  | 599.8  | 421.0  | 291.3 | 81.7  |
| 15°   | 2585.1 | 2488.0 | 2381.9 | 2215.8 | 1940.9 | 1632.4 | 1288.5 | 964.5  | 676.0  | 440.1 | 79.8  |
| 17.5° | 3361.8 | 3323.7 | 3166.7 | 2939.9 | 2603.3 | 2205.8 | 1782.1 | 1339.3 | 911.9  | 576.2 | 74.4  |
| 20°   | 3935.3 | 3909.0 | 3719.3 | 3478.0 | 3098.7 | 2643.2 | 2105.1 | 1573.4 | 1076.1 | 662.4 | 66.2  |
| 22.5° | 4212.0 | 4207.5 | 4070.5 | 3823.7 | 3421.7 | 2905.4 | 2312.9 | 1708.6 | 1127.0 | 674.2 | 55.3  |
| 25°   | 4175.7 | 4192.1 | 4114.0 | 3930.7 | 3545.1 | 3013.4 | 2374.6 | 1708.6 | 1089.8 | 624.3 | 46.3  |
| 27.5° | 4010.6 | 4021.5 | 3972.5 | 3831.8 | 3472.5 | 2935.4 | 2288.4 | 1598.8 | 981.8  | 536.3 | 38.1  |
| 30°   | 3897.2 | 3901.7 | 3840.9 | 3690.3 | 3309.2 | 2757.5 | 2085.1 | 1395.5 | 818.5  | 430.1 | 28.1  |
| 32.5° | 3759.3 | 3758.3 | 3687.6 | 3515.2 | 3095.1 | 2508.0 | 1827.5 | 1153.3 | 628.8  | 326.7 | 16.3  |
| 35°   | 3557.8 | 3535.1 | 3438.9 | 3240.2 | 2775.7 | 2172.3 | 1498.1 | 878.3  | 452.8  | 231.4 | 10.0  |
| 37.5° | 3281.1 | 3222.1 | 3086.0 | 2820.1 | 2327.4 | 1703.1 | 1110.6 | 617.0  | 309.4  | 153.3 | 6.4   |
| 40°   | 2837.4 | 2774.8 | 2589.6 | 2266.6 | 1760.3 | 1225.9 | 748.6  | 402.0  | 195.1  | 91.6  | 3.6   |
| 42.5° | 2224.9 | 2182.2 | 1932.7 | 1610.6 | 1162.3 | 782.2  | 450.1  | 237.7  | 109.8  | 52.6  | 0.9   |
| 45°   | 1537.1 | 1481.7 | 1285.7 | 1012.6 | 697.8  | 433.7  | 252.3  | 124.3  | 62.6   | 31.8  | 0.0   |
| 47.5° | 848.4  | 780.3  | 666.9  | 524.5  | 351.2  | 227.8  | 127.0  | 67.1   | 35.4   | 15.4  | 0.0   |
| 50°   | 339.4  | 336.6  | 267.7  | 190.5  | 134.3  | 103.4  | 63.5   | 36.3   | 18.1   | 5.4   | 0.9   |
| 52.5° | 118.9  | 118.9  | 102.5  | 83.5   | 65.3   | 47.2   | 31.8   | 17.2   | 6.4    | 1.8   | 0.9   |
| 55°   | 26.3   | 29.0   | 27.2   | 25.4   | 24.5   | 20.9   | 13.6   | 6.4    | 1.8    | 0.0   | 0.9   |
| 57.5° | 2.7    | 2.7    | 2.7    | 3.6    | 4.5    | 4.5    | 3.6    | 1.8    | 0.0    | 0.0   | 0.9   |
| 60°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.0    | 0.0    | 0.0   | 1.8   |
| 62.5° | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9   | 1.8   |
| 65°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9   | 1.8   |
| 67.5° | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9   | 1.8   |
| 70°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9   | 2.7   |
| 72.5° | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9   | 2.7   |
| 75°   | 0.0    | 0.0    | 0.9    | 0.9    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9   | 2.7   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9   | 1.8   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9   | 1.8   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9   | 1.8   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9   | 1.8   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9   | 1.8   |
| 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°    | 47.2 | 47.2   | 47.2 | 47.2   | 47.2 |
| 2.5°  | 47.2 | 37.2   | 30.9 | 27.2   | 26.3 |
| 5°    | 44.5 | 28.1   | 20.0 | 17.2   | 16.3 |
| 7.5°  | 39.9 | 20.9   | 13.6 | 10.9   | 10.0 |
| 10°   | 34.5 | 15.4   | 9.1  | 6.4    | 6.4  |
| 12.5° | 29.0 | 11.8   | 5.4  | 2.7    | 1.8  |
| 15°   | 23.6 | 7.3    | 1.8  | 0.9    | 0.9  |
| 17.5° | 18.1 | 4.5    | 0.0  | 0.0    | 0.0  |
| 20°   | 14.5 | 1.8    | 0.0  | 0.0    | 0.0  |
| 22.5° | 10.9 | 0.9    | 0.0  | 0.0    | 0.0  |
| 25°   | 7.3  | 0.0    | 0.0  | 0.0    | 0.0  |
| 27.5° | 4.5  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 2.7  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32.5° | 0.9  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 0.9  | 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°   | 0.9  | 0.0    | 0.0  | 0.9    | 0.9  |
| 47.5° | 0.9  | 0.9    | 0.9  | 1.8    | 1.8  |
| 50°   | 0.9  | 0.9    | 0.9  | 1.8    | 2.7  |
| 52.5° | 1.8  | 0.9    | 1.8  | 2.7    | 2.7  |
| 55°   | 1.8  | 1.8    | 2.7  | 3.6    | 3.6  |
| 57.5° | 1.8  | 1.8    | 2.7  | 3.6    | 3.6  |
| 60°   | 1.8  | 1.8    | 2.7  | 3.6    | 4.5  |
| 62.5° | 2.7  | 2.7    | 2.7  | 3.6    | 3.6  |
| 65°   | 2.7  | 2.7    | 2.7  | 3.6    | 4.5  |
| 67.5° | 2.7  | 2.7    | 2.7  | 3.6    | 4.5  |
| 70°   | 2.7  | 2.7    | 2.7  | 3.6    | 3.6  |
| 72.5° | 3.6  | 2.7    | 2.7  | 3.6    | 3.6  |
| 75°   | 2.7  | 2.7    | 2.7  | 2.7    | 2.7  |
| 77.5° | 2.7  | 2.7    | 1.8  | 2.7    | 2.7  |
| 80°   | 2.7  | 1.8    | 1.8  | 1.8    | 1.8  |
| 82.5° | 2.7  | 1.8    | 1.8  | 1.8    | 1.8  |
| 85°   | 2.7  | 1.8    | 0.9  | 0.9    | 0.9  |
| 87.5° | 2.7  | 1.8    | 0.9  | 0.9    | 0.9  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)