

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: P1311474

Luminaire Tested: P3SQAS17R309050DE010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311474  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS17R309050DE010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R30 optic, 5000K CCT AND, 90CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

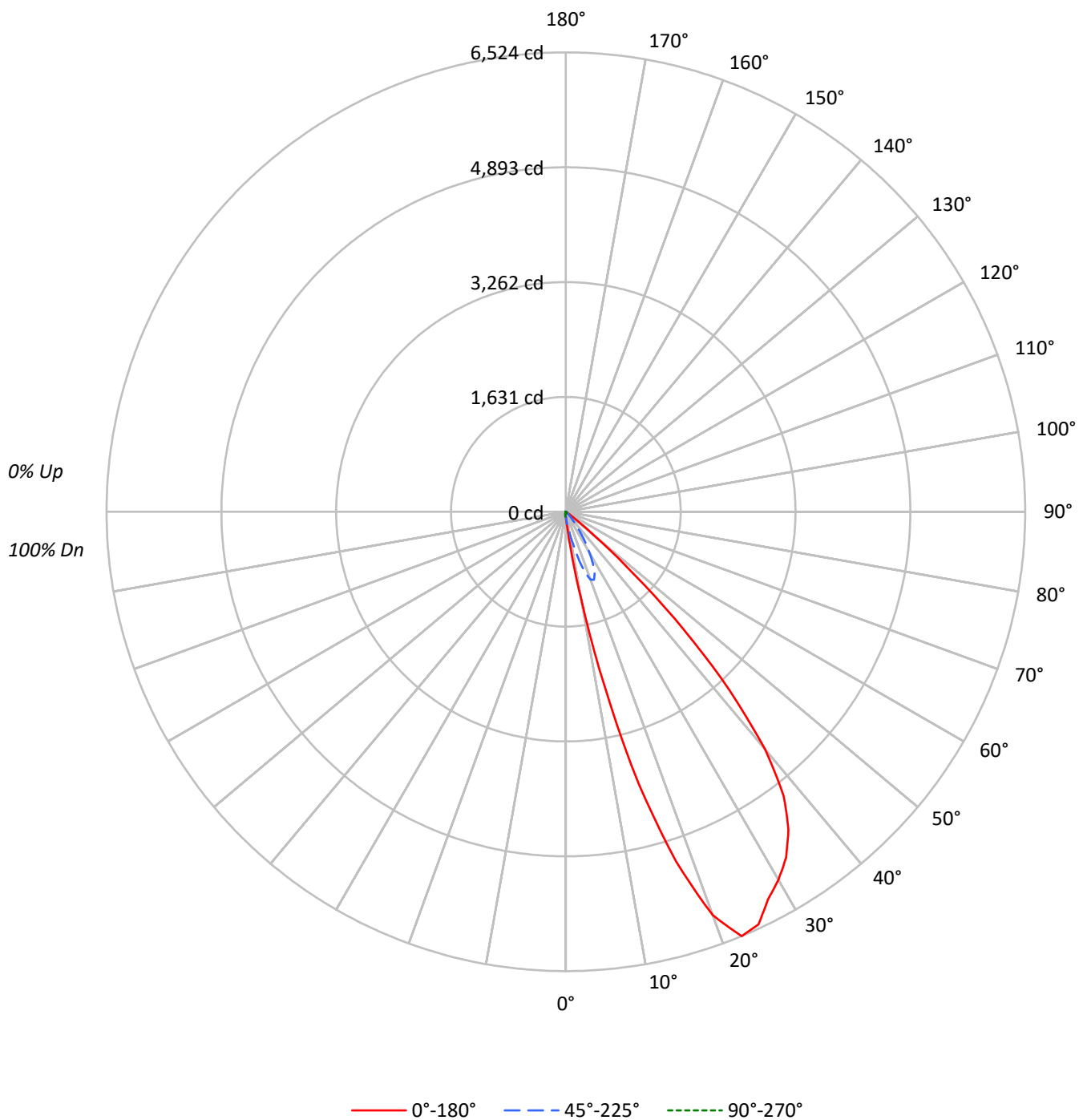
Lumens per Lamp: N/A  
Luminaire Lumens: 1538.0 lumens  
Efficiency: N/A  
Efficacy: 72.5 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.2  
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: P3SQAS17R309050DE010 E3SQCA301MW

### 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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  |
| 2   | 106 | 100 | 95  | 92  | 103 | 98  | 94  | 90  | 95  | 92  | 88  | 92  | 89  | 87  | 89  | 87  | 85  |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 79  | 77  |
| 4   | 93  | 84  | 77  | 72  | 91  | 83  | 77  | 72  | 80  | 75  | 71  | 78  | 74  | 70  | 76  | 73  | 69  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 69  | 65  | 74  | 68  | 64  | 72  | 67  | 63  | 71  | 66  | 63  |
| 6   | 81  | 71  | 64  | 58  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 61  | 57  |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 61  | 56  | 52  | 60  | 55  | 52  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  |
| 9   | 67  | 55  | 48  | 43  | 65  | 55  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 52  | 46  | 43  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  |

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

|     | 0°      | 45°    | 90°   | 135°  | 180°  |
|-----|---------|--------|-------|-------|-------|
| 0°  | 12589   | 12589  | 12589 | 12589 | 12589 |
| 5°  | 37895   | 25275  | 11911 | 5342  | 4374  |
| 10° | 219474  | 53583  | 9339  | 2466  | 1714  |
| 15° | 713887  | 121528 | 6508  | 499   | 250   |
| 20° | 1117083 | 188022 | 4124  | 0     | 0     |
| 25° | 1229016 | 183737 | 2128  | 0     | 0     |
| 30° | 1200373 | 132484 | 835   | 0     | 0     |
| 35° | 1158555 | 75352  | 294   | 0     | 0     |
| 40° | 987997  | 31902  | 0     | 0     | 0     |
| 45° | 579842  | 11983  | 341   | 0     | 341   |
| 50° | 140824  | 2251   | 375   | 375   | 1125  |
| 55° | 12251   | 0      | 841   | 1261  | 1681  |
| 60° | 482     | 0      | 964   | 1447  | 2411  |
| 65° | 571     | 571    | 1712  | 1712  | 2853  |
| 70° | 705     | 705    | 2115  | 2115  | 2820  |
| 75° | 0       | 932    | 2795  | 2795  | 2795  |
| 80° | 0       | 1389   | 4166  | 2777  | 2777  |
| 85° | 0       | 2766   | 8299  | 2766  | 2766  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 579842 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 13.4   | 0.9       |
| 10°-20°   | 211.4  | 13.7      |
| 20°-30°   | 537.2  | 34.9      |
| 30°-40°   | 535.4  | 34.8      |
| 40°-50°   | 216.9  | 14.1      |
| 50°-60°   | 15.0   | 1.0       |
| 60°-70°   | 3.4    | 0.2       |
| 70°-80°   | 3.4    | 0.2       |
| 80°-90°   | 1.9    | 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°    | 762.0  | 49.5      |
| 0°-40°    | 1297.4 | 84.4      |
| 0°-60°    | 1529.3 | 99.4      |
| 0°-90°    | 1538.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1538.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 73   | 73  | 73  | 73   | 73   |      |
| 5°  | 219  | 146 | 69  | 31   | 25   | 51   |
| 15° | 4004 | 682 | 36  | 3    | 1    | 1165 |
| 25° | 6468 | 967 | 11  | 0    | 0    | 2920 |
| 35° | 5510 | 358 | 1   | 0    | 0    | 3378 |
| 45° | 2381 | 49  | 1   | 0    | 1    | 1816 |
| 55° | 41   | 0   | 3   | 4    | 6    | 107  |
| 65° | 1    | 1   | 4   | 4    | 7    | 1    |
| 75° | 0    | 1   | 4   | 4    | 4    | 1    |
| 85° | 0    | 1   | 4   | 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°    | 73.1   | 73.1   | 73.1   | 73.1   | 73.1   | 73.1   | 73.1   | 73.1   | 73.1   | 73.1   | 73.1  |
| 2.5°  | 120.9  | 122.3  | 122.3  | 119.5  | 118.1  | 118.1  | 113.8  | 112.4  | 108.2  | 104.0  | 89.9  |
| 5°    | 219.2  | 215.0  | 209.4  | 209.4  | 196.8  | 189.7  | 179.9  | 168.6  | 160.2  | 146.2  | 104.0 |
| 7.5°  | 497.5  | 463.8  | 453.9  | 441.3  | 393.5  | 355.6  | 312.0  | 274.0  | 238.9  | 209.4  | 115.2 |
| 10°   | 1255.0 | 1189.0 | 1134.1 | 1023.1 | 884.0  | 750.5  | 626.8  | 483.5  | 385.1  | 306.4  | 123.7 |
| 12.5° | 2528.3 | 2439.7 | 2334.3 | 2132.0 | 1872.0 | 1538.9 | 1243.8 | 929.0  | 652.1  | 451.1  | 126.5 |
| 15°   | 4003.9 | 3853.6 | 3689.1 | 3431.9 | 3006.1 | 2528.3 | 1995.6 | 1493.9 | 1047.0 | 681.6  | 123.7 |
| 17.5° | 5206.9 | 5147.9 | 4904.8 | 4553.4 | 4032.0 | 3416.5 | 2760.2 | 2074.3 | 1412.4 | 892.4  | 115.2 |
| 20°   | 6095.1 | 6054.4 | 5760.7 | 5386.8 | 4799.4 | 4093.9 | 3260.5 | 2436.9 | 1666.8 | 1025.9 | 102.6 |
| 22.5° | 6523.8 | 6516.7 | 6304.5 | 5922.3 | 5299.7 | 4500.0 | 3582.3 | 2646.3 | 1745.5 | 1044.2 | 85.7  |
| 25°   | 6467.6 | 6492.9 | 6372.0 | 6088.1 | 5490.8 | 4667.3 | 3677.9 | 2646.3 | 1687.9 | 966.9  | 71.7  |
| 27.5° | 6211.8 | 6228.6 | 6152.8 | 5934.9 | 5378.4 | 4546.4 | 3544.4 | 2476.3 | 1520.6 | 830.6  | 59.0  |
| 30°   | 6036.1 | 6043.1 | 5949.0 | 5715.7 | 5125.4 | 4270.9 | 3229.6 | 2161.5 | 1267.7 | 666.2  | 43.6  |
| 32.5° | 5822.5 | 5821.1 | 5711.5 | 5444.4 | 4793.8 | 3884.5 | 2830.4 | 1786.2 | 973.9  | 505.9  | 25.3  |
| 35°   | 5510.5 | 5475.4 | 5326.4 | 5018.6 | 4299.1 | 3364.5 | 2320.3 | 1360.4 | 701.3  | 358.4  | 15.5  |
| 37.5° | 5081.9 | 4990.5 | 4779.7 | 4367.9 | 3604.8 | 2637.9 | 1720.2 | 955.7  | 479.2  | 237.5  | 9.8   |
| 40°   | 4394.6 | 4297.7 | 4011.0 | 3510.6 | 2726.4 | 1898.7 | 1159.4 | 622.6  | 302.2  | 141.9  | 5.6   |
| 42.5° | 3446.0 | 3379.9 | 2993.5 | 2494.5 | 1800.3 | 1211.4 | 697.1  | 368.2  | 170.1  | 81.5   | 1.4   |
| 45°   | 2380.7 | 2295.0 | 1991.4 | 1568.4 | 1080.7 | 671.8  | 390.7  | 192.5  | 97.0   | 49.2   | 0.0   |
| 47.5° | 1314.0 | 1208.6 | 1033.0 | 812.3  | 543.9  | 352.8  | 196.8  | 104.0  | 54.8   | 23.9   | 0.0   |
| 50°   | 525.6  | 521.4  | 414.6  | 295.1  | 208.0  | 160.2  | 98.4   | 56.2   | 28.1   | 8.4    | 1.4   |
| 52.5° | 184.1  | 184.1  | 158.8  | 129.3  | 101.2  | 73.1   | 49.2   | 26.7   | 9.8    | 2.8    | 1.4   |
| 55°   | 40.8   | 45.0   | 42.2   | 39.4   | 37.9   | 32.3   | 21.1   | 9.8    | 2.8    | 0.0    | 1.4   |
| 57.5° | 4.2    | 4.2    | 4.2    | 5.6    | 7.0    | 7.0    | 5.6    | 2.8    | 0.0    | 0.0    | 1.4   |
| 60°   | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 0.0    | 0.0    | 0.0    | 2.8   |
| 62.5° | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 2.8   |
| 65°   | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 2.8   |
| 67.5° | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 2.8   |
| 70°   | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 4.2   |
| 72.5° | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 4.2   |
| 75°   | 0.0    | 0.0    | 1.4    | 1.4    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 4.2   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 2.8   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 2.8   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 2.8   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 2.8   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 2.8   |
| 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°    | 73.1 | 73.1   | 73.1 | 73.1   | 73.1 |
| 2.5°  | 73.1 | 57.6   | 47.8 | 42.2   | 40.8 |
| 5°    | 68.9 | 43.6   | 30.9 | 26.7   | 25.3 |
| 7.5°  | 61.8 | 32.3   | 21.1 | 16.9   | 15.5 |
| 10°   | 53.4 | 23.9   | 14.1 | 9.8    | 9.8  |
| 12.5° | 45.0 | 18.3   | 8.4  | 4.2    | 2.8  |
| 15°   | 36.5 | 11.2   | 2.8  | 1.4    | 1.4  |
| 17.5° | 28.1 | 7.0    | 0.0  | 0.0    | 0.0  |
| 20°   | 22.5 | 2.8    | 0.0  | 0.0    | 0.0  |
| 22.5° | 16.9 | 1.4    | 0.0  | 0.0    | 0.0  |
| 25°   | 11.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 27.5° | 7.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 4.2  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32.5° | 1.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 1.4  | 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°   | 1.4  | 0.0    | 0.0  | 1.4    | 1.4  |
| 47.5° | 1.4  | 1.4    | 1.4  | 2.8    | 2.8  |
| 50°   | 1.4  | 1.4    | 1.4  | 2.8    | 4.2  |
| 52.5° | 2.8  | 1.4    | 2.8  | 4.2    | 4.2  |
| 55°   | 2.8  | 2.8    | 4.2  | 5.6    | 5.6  |
| 57.5° | 2.8  | 2.8    | 4.2  | 5.6    | 5.6  |
| 60°   | 2.8  | 2.8    | 4.2  | 5.6    | 7.0  |
| 62.5° | 4.2  | 4.2    | 4.2  | 5.6    | 5.6  |
| 65°   | 4.2  | 4.2    | 4.2  | 5.6    | 7.0  |
| 67.5° | 4.2  | 4.2    | 4.2  | 5.6    | 7.0  |
| 70°   | 4.2  | 4.2    | 4.2  | 5.6    | 5.6  |
| 72.5° | 5.6  | 4.2    | 4.2  | 5.6    | 5.6  |
| 75°   | 4.2  | 4.2    | 4.2  | 4.2    | 4.2  |
| 77.5° | 4.2  | 4.2    | 2.8  | 4.2    | 4.2  |
| 80°   | 4.2  | 2.8    | 2.8  | 2.8    | 2.8  |
| 82.5° | 4.2  | 2.8    | 2.8  | 2.8    | 2.8  |
| 85°   | 4.2  | 2.8    | 1.4  | 1.4    | 1.4  |
| 87.5° | 4.2  | 2.8    | 1.4  | 1.4    | 1.4  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)