

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: P1344986

Luminaire Tested: P3A13R309727DE010 E3A301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1344986  
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: P3A13R309727DE010 E3A301MW  
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 97CRI , E3A301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

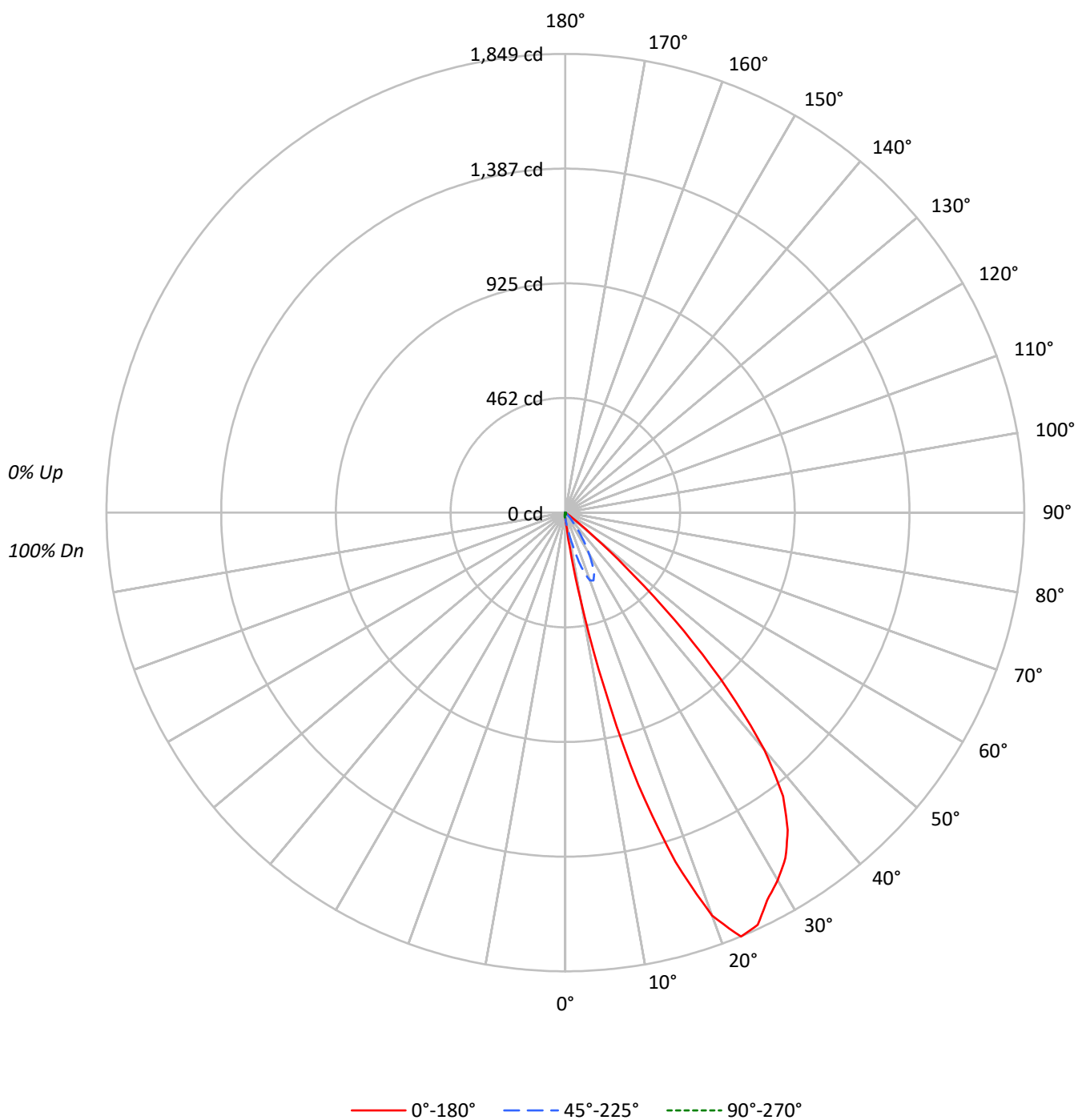
Lumens per Lamp: N/A  
Luminaire Lumens: 436.0 lumens  
Efficiency: N/A  
Efficacy: 29.9 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P3A13R309727DE010 E3A301MW

### 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 | 102 | 102 | 100 |
| 1   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 93  | 93  | 92  |
| 2   | 106 | 100 | 95  | 92  | 103 | 98  | 94  | 90  | 95  | 92  | 88  | 92  | 89  | 87  | 89  | 87  | 85  | 85  | 85  | 83  |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 87  | 83  | 79  | 85  | 81  | 78  | 83  | 79  | 77  | 77  | 77  | 75  |
| 4   | 93  | 84  | 77  | 72  | 91  | 83  | 77  | 72  | 80  | 75  | 71  | 78  | 74  | 70  | 76  | 73  | 69  | 69  | 69  | 68  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 69  | 65  | 74  | 68  | 64  | 72  | 67  | 63  | 71  | 66  | 63  | 63  | 63  | 61  |
| 6   | 81  | 71  | 64  | 58  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 61  | 57  | 57  | 57  | 55  |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 52  | 52  | 50  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 47  | 47  | 45  |
| 9   | 67  | 55  | 48  | 43  | 65  | 55  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 52  | 46  | 43  | 43  | 43  | 41  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 39  | 39  | 37  |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 4539   | 4539  | 4539 | 4539 | 4539 |
| 5°  | 13691  | 9113  | 4292 | 1937 | 1585 |
| 10° | 79224  | 19349 | 3362 | 891  | 623  |
| 15° | 257686 | 43860 | 2361 | 182  | 91   |
| 20° | 403212 | 67859 | 1493 | 0    | 0    |
| 25° | 443614 | 66318 | 774  | 0    | 0    |
| 30° | 433257 | 47805 | 304  | 0    | 0    |
| 35° | 418162 | 27198 | 107  | 0    | 0    |
| 40° | 356611 | 11507 | 0    | 0    | 0    |
| 45° | 209293 | 4311  | 124  | 0    | 124  |
| 50° | 50830  | 819   | 136  | 136  | 409  |
| 55° | 4435   | 0     | 306  | 459  | 612  |
| 60° | 175    | 0     | 351  | 526  | 877  |
| 65° | 208    | 208   | 623  | 623  | 1038 |
| 70° | 256    | 256   | 769  | 769  | 1026 |
| 75° | 0      | 339   | 1017 | 1017 | 1017 |
| 80° | 0      | 505   | 1515 | 1010 | 1010 |
| 85° | 0      | 1006  | 3019 | 1006 | 1006 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 209293 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.8    | 0.9       |
| 10°-20°   | 59.9   | 13.7      |
| 20°-30°   | 152.3  | 34.9      |
| 30°-40°   | 151.8  | 34.8      |
| 40°-50°   | 61.5   | 14.1      |
| 50°-60°   | 4.3    | 1.0       |
| 60°-70°   | 1.0    | 0.2       |
| 70°-80°   | 1.0    | 0.2       |
| 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°    | 216.0  | 49.5      |
| 0°-40°    | 367.8  | 84.4      |
| 0°-60°    | 433.5  | 99.4      |
| 0°-90°    | 436.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 436.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 21   | 21  | 21  | 21   | 21   |      |
| 5°  | 62   | 41  | 20  | 9    | 7    | 14   |
| 15° | 1135 | 193 | 10  | 1    | 0    | 330  |
| 25° | 1834 | 274 | 3   | 0    | 0    | 828  |
| 35° | 1562 | 102 | 0   | 0    | 0    | 958  |
| 45° | 675  | 14  | 0   | 0    | 0    | 515  |
| 55° | 12   | 0   | 1   | 1    | 2    | 30   |
| 65° | 0    | 0   | 1   | 1    | 2    | 0    |
| 75° | 0    | 0   | 1   | 1    | 1    | 0    |
| 85° | 0    | 0   | 1   | 0    | 0    | 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°    | 20.7   | 20.7   | 20.7   | 20.7   | 20.7   | 20.7   | 20.7   | 20.7  | 20.7  | 20.7  | 20.7  |
| 2.5°  | 34.3   | 34.7   | 34.7   | 33.9   | 33.5   | 33.5   | 32.3   | 31.9  | 30.7  | 29.5  | 25.5  |
| 5°    | 62.2   | 61.0   | 59.4   | 59.4   | 55.8   | 53.8   | 51.0   | 47.8  | 45.4  | 41.4  | 29.5  |
| 7.5°  | 141.0  | 131.5  | 128.7  | 125.1  | 111.6  | 100.8  | 88.4   | 77.7  | 67.7  | 59.4  | 32.7  |
| 10°   | 355.8  | 337.0  | 321.5  | 290.0  | 250.6  | 212.7  | 177.7  | 137.1 | 109.2 | 86.9  | 35.1  |
| 12.5° | 716.7  | 691.6  | 661.7  | 604.4  | 530.7  | 436.3  | 352.6  | 263.3 | 184.9 | 127.9 | 35.9  |
| 15°   | 1135.1 | 1092.4 | 1045.8 | 972.9  | 852.2  | 716.7  | 565.7  | 423.5 | 296.8 | 193.2 | 35.1  |
| 17.5° | 1476.1 | 1459.4 | 1390.4 | 1290.8 | 1143.0 | 968.5  | 782.5  | 588.0 | 400.4 | 253.0 | 32.7  |
| 20°   | 1727.9 | 1716.3 | 1633.1 | 1527.1 | 1360.6 | 1160.6 | 924.3  | 690.8 | 472.5 | 290.8 | 29.1  |
| 22.5° | 1849.4 | 1847.4 | 1787.2 | 1678.9 | 1502.4 | 1275.7 | 1015.5 | 750.2 | 494.8 | 296.0 | 24.3  |
| 25°   | 1833.5 | 1840.6 | 1806.4 | 1725.9 | 1556.6 | 1323.1 | 1042.6 | 750.2 | 478.5 | 274.1 | 20.3  |
| 27.5° | 1760.9 | 1765.7 | 1744.2 | 1682.5 | 1524.7 | 1288.8 | 1004.8 | 702.0 | 431.1 | 235.5 | 16.7  |
| 30°   | 1711.1 | 1713.1 | 1686.4 | 1620.3 | 1453.0 | 1210.8 | 915.5  | 612.7 | 359.4 | 188.8 | 12.4  |
| 32.5° | 1650.6 | 1650.2 | 1619.1 | 1543.4 | 1359.0 | 1101.2 | 802.4  | 506.4 | 276.1 | 143.4 | 7.2   |
| 35°   | 1562.1 | 1552.2 | 1510.0 | 1422.7 | 1218.7 | 953.8  | 657.8  | 385.7 | 198.8 | 101.6 | 4.4   |
| 37.5° | 1440.6 | 1414.7 | 1355.0 | 1238.2 | 1021.9 | 747.8  | 487.6  | 270.9 | 135.9 | 67.3  | 2.8   |
| 40°   | 1245.8 | 1218.3 | 1137.0 | 995.2  | 772.9  | 538.2  | 328.7  | 176.5 | 85.7  | 40.2  | 1.6   |
| 42.5° | 976.9  | 958.2  | 848.6  | 707.2  | 510.4  | 343.4  | 197.6  | 104.4 | 48.2  | 23.1  | 0.4   |
| 45°   | 674.9  | 650.6  | 564.5  | 444.6  | 306.4  | 190.4  | 110.8  | 54.6  | 27.5  | 13.9  | 0.0   |
| 47.5° | 372.5  | 342.6  | 292.8  | 230.3  | 154.2  | 100.0  | 55.8   | 29.5  | 15.5  | 6.8   | 0.0   |
| 50°   | 149.0  | 147.8  | 117.5  | 83.7   | 59.0   | 45.4   | 27.9   | 15.9  | 8.0   | 2.4   | 0.4   |
| 52.5° | 52.2   | 52.2   | 45.0   | 36.7   | 28.7   | 20.7   | 13.9   | 7.6   | 2.8   | 0.8   | 0.4   |
| 55°   | 11.6   | 12.7   | 12.0   | 11.2   | 10.8   | 9.2    | 6.0    | 2.8   | 0.8   | 0.0   | 0.4   |
| 57.5° | 1.2    | 1.2    | 1.2    | 1.6    | 2.0    | 2.0    | 1.6    | 0.8   | 0.0   | 0.0   | 0.4   |
| 60°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.0   | 0.0   | 0.0   | 0.8   |
| 62.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.0    | 0.0    | 0.0   | 0.4   | 0.4   | 0.8   |
| 65°   | 0.4    | 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   | 1.2   |
| 72.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.4   | 1.2   |
| 75°   | 0.0    | 0.0    | 0.4    | 0.4    | 0.0    | 0.4    | 0.4    | 0.4   | 0.4   | 0.4   | 1.2   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.4   | 0.8   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4   | 0.4   | 0.4   | 0.8   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4    | 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    | 0.0   | 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°    | 20.7 | 20.7   | 20.7 | 20.7   | 20.7 |
| 2.5°  | 20.7 | 16.3   | 13.5 | 12.0   | 11.6 |
| 5°    | 19.5 | 12.4   | 8.8  | 7.6    | 7.2  |
| 7.5°  | 17.5 | 9.2    | 6.0  | 4.8    | 4.4  |
| 10°   | 15.1 | 6.8    | 4.0  | 2.8    | 2.8  |
| 12.5° | 12.7 | 5.2    | 2.4  | 1.2    | 0.8  |
| 15°   | 10.4 | 3.2    | 0.8  | 0.4    | 0.4  |
| 17.5° | 8.0  | 2.0    | 0.0  | 0.0    | 0.0  |
| 20°   | 6.4  | 0.8    | 0.0  | 0.0    | 0.0  |
| 22.5° | 4.8  | 0.4    | 0.0  | 0.0    | 0.0  |
| 25°   | 3.2  | 0.0    | 0.0  | 0.0    | 0.0  |
| 27.5° | 2.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 1.2  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32.5° | 0.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 0.4  | 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°   | 0.4  | 0.0    | 0.0  | 0.4    | 0.4  |
| 47.5° | 0.4  | 0.4    | 0.4  | 0.8    | 0.8  |
| 50°   | 0.4  | 0.4    | 0.4  | 0.8    | 1.2  |
| 52.5° | 0.8  | 0.4    | 0.8  | 1.2    | 1.2  |
| 55°   | 0.8  | 0.8    | 1.2  | 1.6    | 1.6  |
| 57.5° | 0.8  | 0.8    | 1.2  | 1.6    | 1.6  |
| 60°   | 0.8  | 0.8    | 1.2  | 1.6    | 2.0  |
| 62.5° | 1.2  | 1.2    | 1.2  | 1.6    | 1.6  |
| 65°   | 1.2  | 1.2    | 1.2  | 1.6    | 2.0  |
| 67.5° | 1.2  | 1.2    | 1.2  | 1.6    | 2.0  |
| 70°   | 1.2  | 1.2    | 1.2  | 1.6    | 1.6  |
| 72.5° | 1.6  | 1.2    | 1.2  | 1.6    | 1.6  |
| 75°   | 1.2  | 1.2    | 1.2  | 1.2    | 1.2  |
| 77.5° | 1.2  | 1.2    | 0.8  | 1.2    | 1.2  |
| 80°   | 1.2  | 0.8    | 0.8  | 0.8    | 0.8  |
| 82.5° | 1.2  | 0.8    | 0.8  | 0.8    | 0.8  |
| 85°   | 1.2  | 0.8    | 0.4  | 0.4    | 0.4  |
| 87.5° | 1.2  | 0.8    | 0.4  | 0.4    | 0.4  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)