

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: P1345507

Luminaire Tested: P3A13R359727DE010 E3CA301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1345507  
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: P3A13R359727DE010 E3CA301MW  
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 97CRI , E3CA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

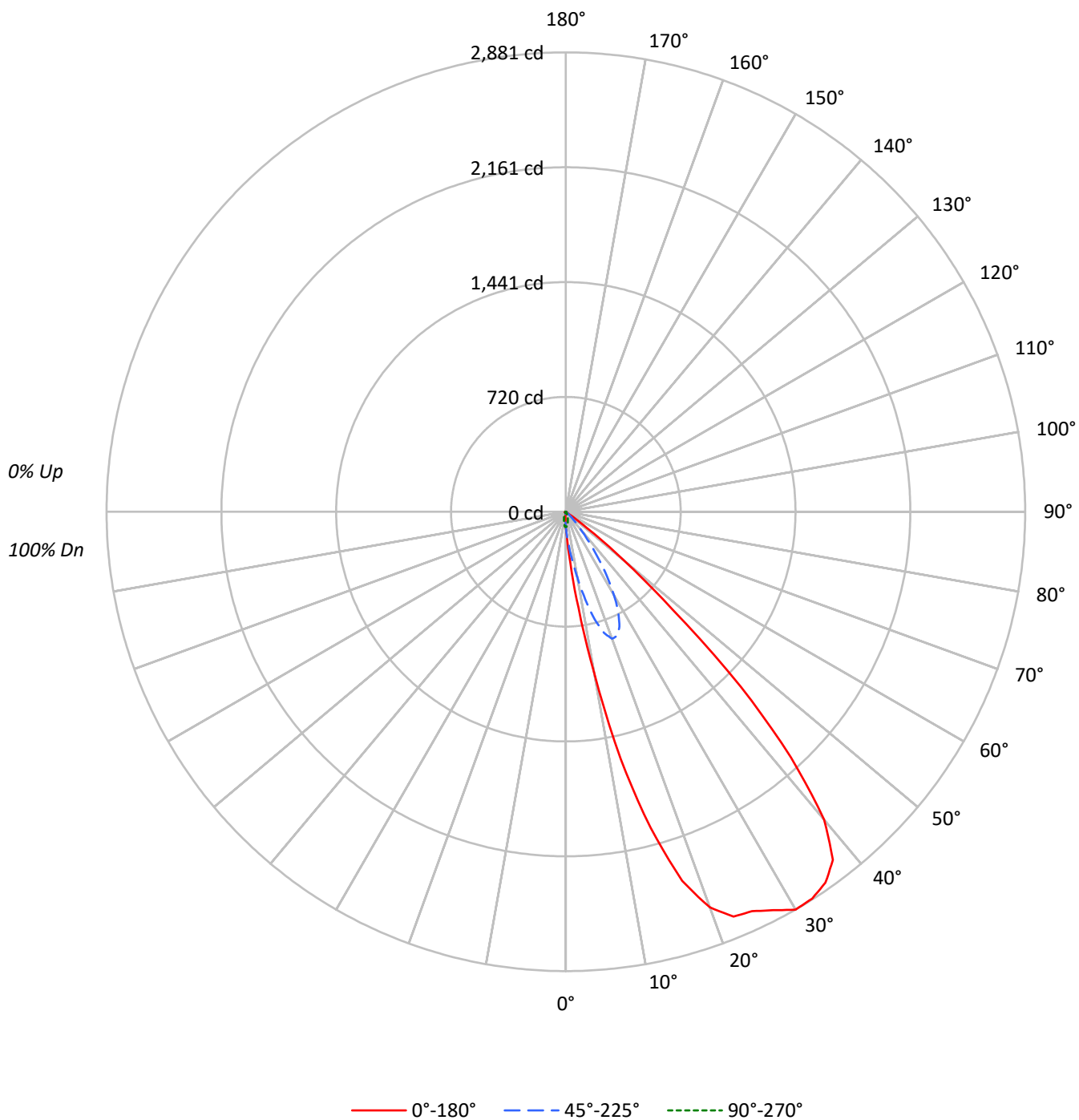
Lumens per Lamp: N/A  
Luminaire Lumens: 906.0 lumens  
Efficiency: N/A  
Efficacy: 62.1 lumens/watt  
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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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CATALOG NUMBER: P3A13R359727DE010 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   | 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  | 51  | 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°  | 20876  | 20876  | 20876 | 20876 | 20876 |
| 5°  | 71076  | 46181  | 19502 | 8232  | 6097  |
| 10° | 228720 | 93630  | 15386 | 3073  | 1982  |
| 15° | 465996 | 158775 | 10897 | 1112  | 749   |
| 20° | 616217 | 197744 | 7024  | 373   | 373   |
| 25° | 668627 | 192253 | 3944  | 194   | 387   |
| 30° | 729378 | 153213 | 1646  | 203   | 405   |
| 35° | 760032 | 95352  | 428   | 214   | 428   |
| 40° | 721208 | 41678  | 229   | 458   | 687   |
| 45° | 481476 | 16653  | 248   | 744   | 1271  |
| 50° | 161462 | 2763   | 546   | 1126  | 1672  |
| 55° | 9022   | 306    | 612   | 1567  | 2179  |
| 60° | 702    | 351    | 1053  | 1798  | 2500  |
| 65° | 830    | 415    | 1245  | 2127  | 2958  |
| 70° | 513    | 513    | 1539  | 2629  | 3142  |
| 75° | 678    | 678    | 2033  | 2796  | 3474  |
| 80° | 0      | 1010   | 3031  | 3031  | 3031  |
| 85° | 0      | 2013   | 6038  | 2013  | 4026  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 481476 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 16.5   | 1.8       |
| 10°-20°   | 130.1  | 14.4      |
| 20°-30°   | 274.6  | 30.3      |
| 30°-40°   | 311.6  | 34.4      |
| 40°-50°   | 153.4  | 16.9      |
| 50°-60°   | 13.3   | 1.5       |
| 60°-70°   | 2.7    | 0.3       |
| 70°-80°   | 2.5    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 421.3  | 46.5      |
| 0°-40°    | 732.9  | 80.9      |
| 0°-60°    | 899.5  | 99.3      |
| 0°-90°    | 906.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 906.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 95   | 95  | 95  | 95   | 95   |      |
| 5°  | 323  | 210 | 89  | 37   | 28   | 53   |
| 15° | 2053 | 699 | 48  | 5    | 3    | 584  |
| 25° | 2764 | 795 | 16  | 1    | 2    | 1286 |
| 35° | 2839 | 356 | 2   | 1    | 2    | 1750 |
| 45° | 1553 | 54  | 1   | 2    | 4    | 1147 |
| 55° | 24   | 1   | 2   | 4    | 6    | 93   |
| 65° | 2    | 1   | 2   | 4    | 6    | 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°    | 95.2   | 95.2   | 95.2   | 95.2   | 95.2   | 95.2   | 95.2   | 95.2   | 95.2   | 95.2  | 95.2  |
| 2.5°  | 165.1  | 169.2  | 167.5  | 166.7  | 165.9  | 162.7  | 155.3  | 154.5  | 147.2  | 142.3 | 117.9 |
| 5°    | 322.9  | 316.4  | 318.0  | 309.0  | 297.7  | 281.4  | 270.8  | 248.1  | 229.3  | 209.8 | 137.4 |
| 7.5°  | 608.3  | 599.4  | 582.3  | 556.3  | 529.4  | 494.5  | 441.6  | 399.3  | 350.5  | 304.2 | 152.9 |
| 10°   | 1027.2 | 1022.3 | 1000.3 | 933.6  | 875.1  | 781.6  | 693.7  | 601.0  | 509.9  | 420.5 | 163.5 |
| 12.5° | 1586.7 | 1553.4 | 1513.5 | 1424.9 | 1309.4 | 1192.3 | 1019.0 | 858.8  | 713.2  | 563.6 | 164.3 |
| 15°   | 2052.7 | 2031.6 | 1975.5 | 1860.0 | 1720.9 | 1551.7 | 1346.0 | 1130.5 | 910.9  | 699.4 | 156.2 |
| 17.5° | 2427.6 | 2395.1 | 2322.7 | 2209.7 | 2049.5 | 1829.9 | 1589.2 | 1326.5 | 1058.9 | 796.2 | 142.3 |
| 20°   | 2640.7 | 2623.6 | 2568.3 | 2455.3 | 2280.4 | 2040.5 | 1766.4 | 1460.7 | 1151.6 | 847.4 | 124.4 |
| 22.5° | 2748.1 | 2735.9 | 2695.2 | 2604.9 | 2441.5 | 2199.9 | 1886.0 | 1530.6 | 1178.4 | 841.7 | 105.7 |
| 25°   | 2763.5 | 2760.3 | 2725.3 | 2657.0 | 2520.4 | 2281.3 | 1938.1 | 1543.6 | 1156.5 | 794.6 | 87.8  |
| 27.5° | 2817.2 | 2805.8 | 2764.3 | 2696.0 | 2558.6 | 2295.1 | 1920.2 | 1498.9 | 1085.7 | 711.6 | 73.2  |
| 30°   | 2880.6 | 2872.5 | 2831.0 | 2760.3 | 2597.6 | 2282.1 | 1856.7 | 1399.7 | 972.7  | 605.1 | 54.5  |
| 32.5° | 2875.8 | 2872.5 | 2837.5 | 2762.7 | 2570.0 | 2205.6 | 1743.7 | 1250.8 | 819.0  | 477.4 | 34.2  |
| 35°   | 2839.2 | 2827.8 | 2783.9 | 2668.4 | 2412.2 | 2008.8 | 1529.0 | 1049.1 | 648.2  | 356.2 | 22.0  |
| 37.5° | 2751.3 | 2726.9 | 2652.9 | 2456.9 | 2130.0 | 1705.5 | 1245.1 | 810.0  | 458.7  | 238.3 | 13.8  |
| 40°   | 2519.5 | 2488.6 | 2339.8 | 2103.1 | 1760.8 | 1343.5 | 926.3  | 557.1  | 302.5  | 145.6 | 5.7   |
| 42.5° | 2090.1 | 2027.5 | 1878.7 | 1635.5 | 1314.3 | 949.9  | 608.3  | 361.1  | 178.1  | 87.8  | 1.6   |
| 45°   | 1552.6 | 1504.6 | 1348.4 | 1128.0 | 861.3  | 609.1  | 368.4  | 195.2  | 98.4   | 53.7  | 0.8   |
| 47.5° | 904.4  | 875.1  | 794.6  | 649.8  | 475.8  | 319.6  | 188.7  | 104.9  | 57.7   | 26.0  | 0.8   |
| 50°   | 473.3  | 436.7  | 375.7  | 284.6  | 209.8  | 147.2  | 91.9   | 56.1   | 28.5   | 8.1   | 0.8   |
| 52.5° | 165.9  | 163.5  | 148.8  | 112.2  | 91.1   | 65.9   | 44.7   | 24.4   | 8.1    | 1.6   | 0.8   |
| 55°   | 23.6   | 23.6   | 22.0   | 24.4   | 26.0   | 23.6   | 15.5   | 6.5    | 1.6    | 0.8   | 0.8   |
| 57.5° | 1.6    | 1.6    | 1.6    | 2.4    | 3.3    | 3.3    | 2.4    | 0.8    | 0.8    | 0.8   | 1.6   |
| 60°   | 1.6    | 1.6    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 1.6   |
| 62.5° | 1.6    | 1.6    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 1.6   |
| 65°   | 1.6    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 1.6   |
| 67.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 1.6   |
| 70°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 2.4   |
| 72.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 2.4   |
| 75°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 2.4   |
| 77.5° | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 2.4   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8   | 1.6   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8   | 1.6   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8   | 1.6   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8   | 1.6   |
| 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°    | 95.2 | 95.2   | 95.2 | 95.2   | 95.2 |
| 2.5°  | 94.3 | 75.6   | 60.2 | 52.9   | 50.4 |
| 5°    | 88.6 | 56.9   | 37.4 | 29.3   | 27.7 |
| 7.5°  | 78.9 | 40.7   | 22.8 | 16.3   | 15.5 |
| 10°   | 69.1 | 29.3   | 13.8 | 9.8    | 8.9  |
| 12.5° | 57.7 | 20.3   | 8.9  | 5.7    | 4.9  |
| 15°   | 48.0 | 13.8   | 4.9  | 4.1    | 3.3  |
| 17.5° | 38.2 | 8.9    | 3.3  | 2.4    | 3.3  |
| 20°   | 30.1 | 5.7    | 1.6  | 1.6    | 1.6  |
| 22.5° | 22.8 | 3.3    | 1.6  | 1.6    | 1.6  |
| 25°   | 16.3 | 1.6    | 0.8  | 0.8    | 1.6  |
| 27.5° | 11.4 | 0.8    | 0.8  | 0.8    | 1.6  |
| 30°   | 6.5  | 0.8    | 0.8  | 0.8    | 1.6  |
| 32.5° | 3.3  | 0.8    | 0.8  | 1.6    | 1.6  |
| 35°   | 1.6  | 0.8    | 0.8  | 1.6    | 1.6  |
| 37.5° | 0.8  | 0.8    | 0.8  | 1.6    | 2.4  |
| 40°   | 0.8  | 0.8    | 1.6  | 2.4    | 2.4  |
| 42.5° | 0.8  | 0.8    | 1.6  | 2.4    | 3.3  |
| 45°   | 0.8  | 1.6    | 2.4  | 3.3    | 4.1  |
| 47.5° | 1.6  | 1.6    | 3.3  | 4.1    | 4.9  |
| 50°   | 1.6  | 2.4    | 3.3  | 4.9    | 4.9  |
| 52.5° | 1.6  | 2.4    | 4.1  | 4.9    | 5.7  |
| 55°   | 1.6  | 3.3    | 4.1  | 5.7    | 5.7  |
| 57.5° | 2.4  | 3.3    | 4.1  | 5.7    | 5.7  |
| 60°   | 2.4  | 3.3    | 4.1  | 5.7    | 5.7  |
| 62.5° | 2.4  | 3.3    | 4.1  | 5.7    | 5.7  |
| 65°   | 2.4  | 3.3    | 4.1  | 5.7    | 5.7  |
| 67.5° | 2.4  | 3.3    | 4.1  | 4.9    | 5.7  |
| 70°   | 2.4  | 3.3    | 4.1  | 4.9    | 4.9  |
| 72.5° | 3.3  | 3.3    | 4.1  | 4.9    | 4.9  |
| 75°   | 2.4  | 3.3    | 3.3  | 4.1    | 4.1  |
| 77.5° | 2.4  | 2.4    | 2.4  | 3.3    | 3.3  |
| 80°   | 2.4  | 2.4    | 2.4  | 2.4    | 2.4  |
| 82.5° | 2.4  | 1.6    | 1.6  | 2.4    | 2.4  |
| 85°   | 2.4  | 1.6    | 0.8  | 1.6    | 1.6  |
| 87.5° | 1.6  | 1.6    | 0.8  | 0.8    | 0.8  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)