

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: P1344876

Luminaire Tested: P3A13R309024DE010 E3A301LI

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1344876  
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: P3A13R309024DE010 E3A301LI  
Description: 3in Adjustable LED luminaire with, R30 optic, 2400K CCT AND, 90CRI , E3A301LI TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

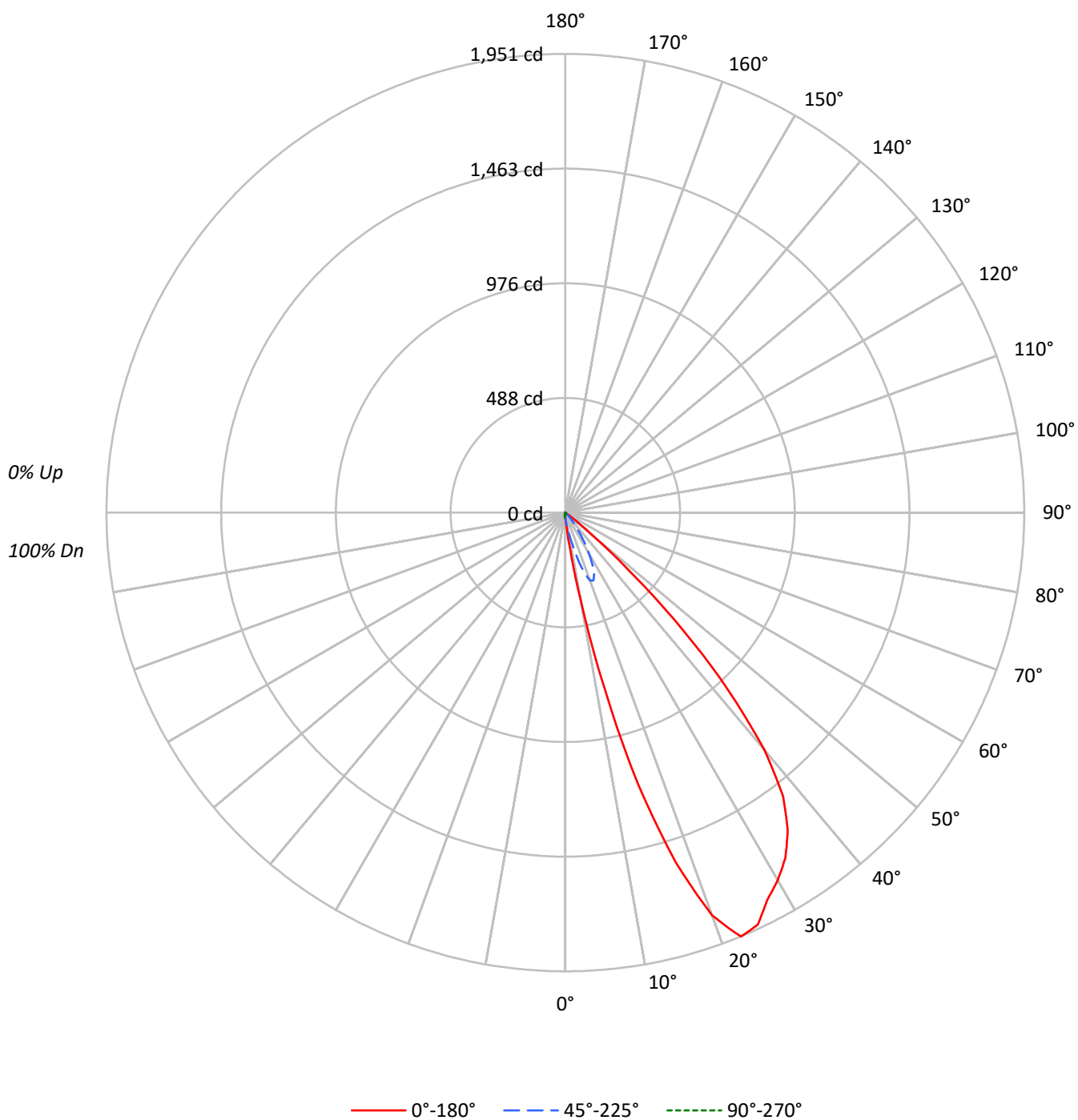
Lumens per Lamp: N/A  
Luminaire Lumens: 460.0 lumens  
Efficiency: N/A  
Efficacy: 31.5 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P3A13R309024DE010 E3A301LI

### 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°  | 4802   | 4802  | 4802 | 4802 | 4802 |
| 5°  | 14440  | 9619  | 4534 | 2025 | 1673 |
| 10° | 83588  | 20396 | 3563 | 935  | 646  |
| 15° | 271852 | 46289 | 2474 | 182  | 91   |
| 20° | 425404 | 71593 | 1563 | 0    | 0    |
| 25° | 468027 | 69972 | 823  | 0    | 0    |
| 30° | 457108 | 50438 | 329  | 0    | 0    |
| 35° | 441184 | 28697 | 107  | 0    | 0    |
| 40° | 376248 | 12166 | 0    | 0    | 0    |
| 45° | 220798 | 4559  | 124  | 0    | 124  |
| 50° | 53627  | 853   | 136  | 136  | 443  |
| 55° | 4664   | 0     | 306  | 497  | 650  |
| 60° | 175    | 0     | 351  | 570  | 921  |
| 65° | 208    | 208   | 675  | 675  | 1090 |
| 70° | 256    | 256   | 833  | 833  | 1090 |
| 75° | 0      | 339   | 1101 | 1101 | 1101 |
| 80° | 0      | 505   | 1642 | 1010 | 1010 |
| 85° | 0      | 1006  | 3271 | 1006 | 1006 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 220798 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 4.0    | 0.9       |
| 10°-20°   | 63.2   | 13.7      |
| 20°-30°   | 160.7  | 34.9      |
| 30°-40°   | 160.1  | 34.8      |
| 40°-50°   | 64.9   | 14.1      |
| 50°-60°   | 4.5    | 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°    | 227.9  | 49.5      |
| 0°-40°    | 388.0  | 84.4      |
| 0°-60°    | 457.4  | 99.4      |
| 0°-90°    | 460.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 460.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 22   | 22  | 22  | 22   | 22   |      |
| 5°  | 66   | 44  | 21  | 9    | 8    | 15   |
| 15° | 1198 | 204 | 11  | 1    | 0    | 349  |
| 25° | 1934 | 289 | 3   | 0    | 0    | 873  |
| 35° | 1648 | 107 | 0   | 0    | 0    | 1010 |
| 45° | 712  | 15  | 0   | 0    | 0    | 543  |
| 55° | 12   | 0   | 1   | 1    | 2    | 32   |
| 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°    | 21.9   | 21.9   | 21.9   | 21.9   | 21.9   | 21.9   | 21.9   | 21.9  | 21.9  | 21.9  | 21.9  |
| 2.5°  | 36.1   | 36.6   | 36.6   | 35.7   | 35.3   | 35.3   | 34.0   | 33.6  | 32.4  | 31.1  | 26.9  |
| 5°    | 65.6   | 64.3   | 62.6   | 62.6   | 58.8   | 56.7   | 53.8   | 50.4  | 47.9  | 43.7  | 31.1  |
| 7.5°  | 148.8  | 138.7  | 135.8  | 132.0  | 117.7  | 106.3  | 93.3   | 82.0  | 71.5  | 62.6  | 34.5  |
| 10°   | 375.4  | 355.6  | 339.2  | 306.0  | 264.4  | 224.5  | 187.5  | 144.6 | 115.2 | 91.6  | 37.0  |
| 12.5° | 756.2  | 729.7  | 698.2  | 637.6  | 559.9  | 460.3  | 372.0  | 277.8 | 195.0 | 134.9 | 37.8  |
| 15°   | 1197.5 | 1152.6 | 1103.4 | 1026.5 | 899.1  | 756.2  | 596.9  | 446.8 | 313.1 | 203.9 | 37.0  |
| 17.5° | 1557.3 | 1539.7 | 1467.0 | 1361.9 | 1205.9 | 1021.8 | 825.5  | 620.4 | 422.4 | 266.9 | 34.5  |
| 20°   | 1823.0 | 1810.8 | 1723.0 | 1611.1 | 1435.4 | 1224.4 | 975.2  | 728.9 | 498.5 | 306.8 | 30.7  |
| 22.5° | 1951.2 | 1949.1 | 1885.6 | 1771.3 | 1585.1 | 1345.9 | 1071.4 | 791.5 | 522.1 | 312.3 | 25.6  |
| 25°   | 1934.4 | 1941.9 | 1905.8 | 1820.9 | 1642.2 | 1395.9 | 1100.0 | 791.5 | 504.8 | 289.2 | 21.4  |
| 27.5° | 1857.9 | 1862.9 | 1840.2 | 1775.1 | 1608.6 | 1359.8 | 1060.1 | 740.6 | 454.8 | 248.4 | 17.7  |
| 30°   | 1805.3 | 1807.4 | 1779.3 | 1709.5 | 1533.0 | 1277.4 | 965.9  | 646.5 | 379.1 | 199.2 | 13.0  |
| 32.5° | 1741.4 | 1741.0 | 1708.2 | 1628.4 | 1433.8 | 1161.8 | 846.6  | 534.2 | 291.3 | 151.3 | 7.6   |
| 35°   | 1648.1 | 1637.6 | 1593.1 | 1501.0 | 1285.8 | 1006.3 | 694.0  | 406.9 | 209.7 | 107.2 | 4.6   |
| 37.5° | 1519.9 | 1492.6 | 1429.6 | 1306.4 | 1078.2 | 789.0  | 514.5  | 285.8 | 143.3 | 71.0  | 2.9   |
| 40°   | 1314.4 | 1285.4 | 1199.6 | 1050.0 | 815.4  | 567.9  | 346.8  | 186.2 | 90.4  | 42.5  | 1.7   |
| 42.5° | 1030.7 | 1010.9 | 895.3  | 746.1  | 538.4  | 362.3  | 208.5  | 110.1 | 50.9  | 24.4  | 0.4   |
| 45°   | 712.0  | 686.4  | 595.6  | 469.1  | 323.2  | 200.9  | 116.9  | 57.6  | 29.0  | 14.7  | 0.0   |
| 47.5° | 393.0  | 361.5  | 308.9  | 243.0  | 162.7  | 105.5  | 58.8   | 31.1  | 16.4  | 7.1   | 0.0   |
| 50°   | 157.2  | 155.9  | 124.0  | 88.3   | 62.2   | 47.9   | 29.4   | 16.8  | 8.4   | 2.5   | 0.4   |
| 52.5° | 55.1   | 55.1   | 47.5   | 38.7   | 30.3   | 21.9   | 14.7   | 8.0   | 2.9   | 0.8   | 0.4   |
| 55°   | 12.2   | 13.5   | 12.6   | 11.8   | 11.3   | 9.7    | 6.3    | 2.9   | 0.8   | 0.0   | 0.4   |
| 57.5° | 1.3    | 1.3    | 1.3    | 1.7    | 2.1    | 2.1    | 1.7    | 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   | 1.3   |
| 72.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.4   | 1.3   |
| 75°   | 0.0    | 0.0    | 0.4    | 0.4    | 0.0    | 0.4    | 0.4    | 0.4   | 0.4   | 0.4   | 1.3   |
| 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°    | 21.9 | 21.9   | 21.9 | 21.9   | 21.9 |
| 2.5°  | 21.9 | 17.2   | 14.3 | 12.6   | 12.2 |
| 5°    | 20.6 | 13.0   | 9.2  | 8.0    | 7.6  |
| 7.5°  | 18.5 | 9.7    | 6.3  | 5.0    | 4.6  |
| 10°   | 16.0 | 7.1    | 4.2  | 2.9    | 2.9  |
| 12.5° | 13.5 | 5.5    | 2.5  | 1.3    | 0.8  |
| 15°   | 10.9 | 3.4    | 0.8  | 0.4    | 0.4  |
| 17.5° | 8.4  | 2.1    | 0.0  | 0.0    | 0.0  |
| 20°   | 6.7  | 0.8    | 0.0  | 0.0    | 0.0  |
| 22.5° | 5.0  | 0.4    | 0.0  | 0.0    | 0.0  |
| 25°   | 3.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 27.5° | 2.1  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 1.3  | 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    | 1.3  |
| 52.5° | 0.8  | 0.4    | 0.8  | 1.3    | 1.3  |
| 55°   | 0.8  | 0.8    | 1.3  | 1.7    | 1.7  |
| 57.5° | 0.8  | 0.8    | 1.3  | 1.7    | 1.7  |
| 60°   | 0.8  | 0.8    | 1.3  | 1.7    | 2.1  |
| 62.5° | 1.3  | 1.3    | 1.3  | 1.7    | 1.7  |
| 65°   | 1.3  | 1.3    | 1.3  | 1.7    | 2.1  |
| 67.5° | 1.3  | 1.3    | 1.3  | 1.7    | 2.1  |
| 70°   | 1.3  | 1.3    | 1.3  | 1.7    | 1.7  |
| 72.5° | 1.7  | 1.3    | 1.3  | 1.7    | 1.7  |
| 75°   | 1.3  | 1.3    | 1.3  | 1.3    | 1.3  |
| 77.5° | 1.3  | 1.3    | 0.8  | 1.3    | 1.3  |
| 80°   | 1.3  | 0.8    | 0.8  | 0.8    | 0.8  |
| 82.5° | 1.3  | 0.8    | 0.8  | 0.8    | 0.8  |
| 85°   | 1.3  | 0.8    | 0.4  | 0.4    | 0.4  |
| 87.5° | 1.3  | 0.8    | 0.4  | 0.4    | 0.4  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)