

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: P1345932

Luminaire Tested: P3A13R409030D2WDE010 E3A301WMH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1345932  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R409030D2WDE010 E3A301WMH  
Description: 3in Adjustable Dim to Warm LED luminaire with, R40 optic, 3000K CCT AND, 90CRI ,  
E3A301WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

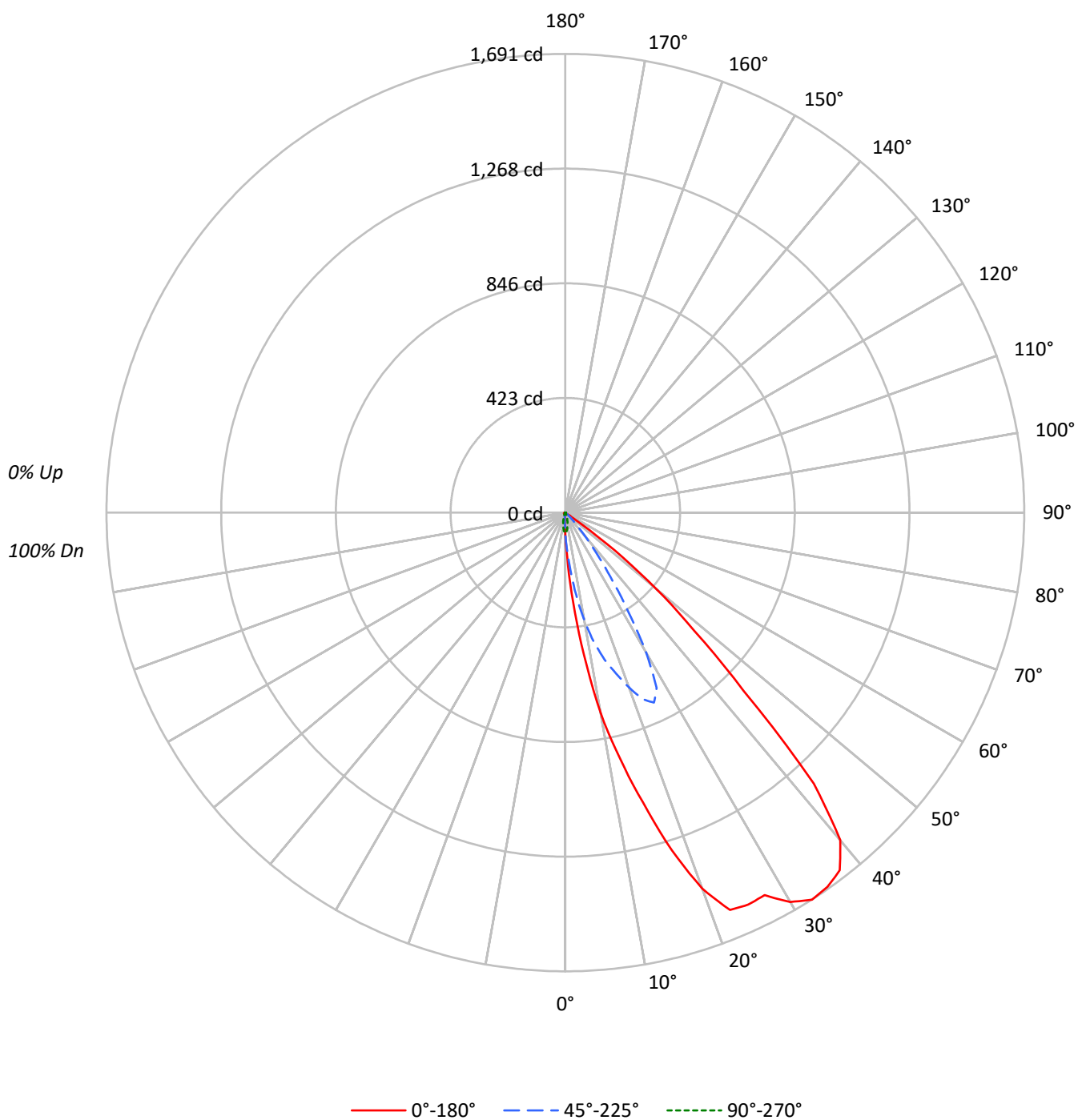
Lumens per Lamp: N/A  
Luminaire Lumens: 624.0 lumens  
Efficiency: N/A  
Efficacy: 31.0 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.1  
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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### 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  | 97  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 82  |    |    |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 74  |    |    |
| 4   | 92  | 83  | 77  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 78  | 73  | 69  | 76  | 72  | 68  | 67  |    |    |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 64  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 60  |    |    |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 60  | 56  | 54  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 51  | 62  | 56  | 51  | 61  | 55  | 51  | 59  | 54  | 51  | 49  |    |    |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |    |    |
| 9   | 66  | 54  | 47  | 42  | 65  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 37  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 16183  | 16183  | 16183 | 16183 | 16183 |
| 5°  | 73013  | 46555  | 14506 | 5569  | 4072  |
| 10° | 167465 | 89956  | 10220 | 2004  | 1536  |
| 15° | 251307 | 127628 | 6356  | 1067  | 953   |
| 20° | 344103 | 159987 | 3687  | 607   | 747   |
| 25° | 385740 | 186930 | 1911  | 508   | 629   |
| 30° | 419584 | 150909 | 810   | 405   | 658   |
| 35° | 450928 | 77229  | 294   | 562   | 857   |
| 40° | 451102 | 30801  | 143   | 601   | 1059  |
| 45° | 287999 | 10296  | 341   | 992   | 1458  |
| 50° | 149522 | 1262   | 546   | 1262  | 1808  |
| 55° | 12922  | 191    | 612   | 1606  | 2217  |
| 60° | 482    | 219    | 702   | 1842  | 2544  |
| 65° | 571    | 259    | 1090  | 1920  | 2750  |
| 70° | 321    | 321    | 1346  | 2052  | 2693  |
| 75° | 424    | 424    | 1356  | 2203  | 3135  |
| 80° | 631    | 631    | 2020  | 2020  | 2652  |
| 85° | 0      | 1258   | 4026  | 2768  | 2768  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 287999 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 14.4   | 2.3       |
| 10°-20°   | 84.5   | 13.5      |
| 20°-30°   | 185.0  | 29.6      |
| 30°-40°   | 210.7  | 33.8      |
| 40°-50°   | 111.2  | 17.8      |
| 50°-60°   | 13.1   | 2.1       |
| 60°-70°   | 2.4    | 0.4       |
| 70°-80°   | 1.9    | 0.3       |
| 80°-90°   | 0.9    | 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       |
| 0°-30°    | 283.8  | 45.5      |
| 0°-40°    | 494.5  | 79.3      |
| 0°-60°    | 618.8  | 99.2      |
| 0°-90°    | 624.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 624.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 74   | 74  | 74  | 74   | 74   |      |
| 5°  | 332  | 212 | 66  | 25   | 18   | 45   |
| 15° | 1107 | 562 | 28  | 5    | 4    | 326  |
| 25° | 1594 | 773 | 8   | 2    | 3    | 735  |
| 35° | 1684 | 288 | 1   | 2    | 3    | 1044 |
| 45° | 929  | 33  | 1   | 3    | 5    | 749  |
| 55° | 34   | 0   | 2   | 4    | 6    | 105  |
| 65° | 1    | 0   | 2   | 4    | 5    | 1    |
| 75° | 0    | 0   | 2   | 3    | 4    | 1    |
| 85° | 0    | 0   | 2   | 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°    | 73.8   | 73.8   | 73.8   | 73.8   | 73.8   | 73.8   | 73.8   | 73.8   | 73.8   | 73.8  | 73.8  |
| 2.5°  | 164.5  | 164.5  | 164.0  | 159.3  | 158.7  | 158.2  | 149.8  | 147.7  | 137.6  | 130.8 | 99.7  |
| 5°    | 331.7  | 324.3  | 323.8  | 315.4  | 301.1  | 282.2  | 270.0  | 250.5  | 231.5  | 211.5 | 122.9 |
| 7.5°  | 528.4  | 534.8  | 517.4  | 508.4  | 476.8  | 454.1  | 419.3  | 388.7  | 346.0  | 305.9 | 141.9 |
| 10°   | 752.1  | 741.0  | 723.6  | 706.2  | 671.9  | 631.3  | 579.6  | 525.3  | 463.6  | 404.0 | 152.4 |
| 12.5° | 926.6  | 912.4  | 901.8  | 878.1  | 844.4  | 792.1  | 730.4  | 657.7  | 575.9  | 489.9 | 151.9 |
| 15°   | 1107.0 | 1092.8 | 1069.0 | 1047.9 | 997.8  | 939.3  | 872.3  | 776.3  | 676.1  | 562.2 | 140.8 |
| 17.5° | 1305.3 | 1286.8 | 1260.5 | 1228.3 | 1179.8 | 1114.9 | 1030.0 | 912.9  | 771.0  | 621.3 | 120.8 |
| 20°   | 1474.6 | 1463.5 | 1437.1 | 1399.2 | 1351.7 | 1288.4 | 1190.3 | 1060.6 | 887.6  | 685.6 | 96.0  |
| 22.5° | 1585.3 | 1575.3 | 1557.4 | 1524.2 | 1488.3 | 1420.8 | 1331.1 | 1188.7 | 985.2  | 744.2 | 72.8  |
| 25°   | 1594.3 | 1590.1 | 1585.3 | 1574.3 | 1552.6 | 1504.7 | 1417.1 | 1263.6 | 1045.8 | 772.6 | 53.8  |
| 27.5° | 1589.6 | 1588.0 | 1586.9 | 1581.1 | 1566.9 | 1519.4 | 1429.8 | 1274.7 | 1037.9 | 728.3 | 39.6  |
| 30°   | 1657.1 | 1652.3 | 1649.7 | 1630.7 | 1593.3 | 1519.9 | 1402.9 | 1215.1 | 922.4  | 596.0 | 28.5  |
| 32.5° | 1691.4 | 1690.3 | 1687.7 | 1669.2 | 1616.5 | 1521.0 | 1357.5 | 1071.1 | 731.5  | 430.4 | 19.5  |
| 35°   | 1684.5 | 1679.2 | 1669.7 | 1635.4 | 1562.1 | 1442.4 | 1210.9 | 855.4  | 527.9  | 288.5 | 12.7  |
| 37.5° | 1661.3 | 1649.2 | 1630.7 | 1569.0 | 1471.4 | 1307.9 | 982.0  | 629.7  | 359.2  | 186.7 | 7.4   |
| 40°   | 1575.9 | 1559.5 | 1530.5 | 1455.1 | 1326.9 | 1078.0 | 726.2  | 425.6  | 235.7  | 107.6 | 2.1   |
| 42.5° | 1354.9 | 1333.8 | 1312.7 | 1228.3 | 1081.7 | 803.7  | 477.8  | 263.2  | 134.5  | 59.1  | 0.5   |
| 45°   | 928.7  | 902.4  | 873.4  | 812.2  | 694.6  | 486.8  | 284.3  | 148.2  | 69.6   | 33.2  | 0.5   |
| 47.5° | 645.0  | 632.9  | 582.2  | 504.2  | 386.6  | 257.9  | 147.1  | 72.8   | 36.9   | 15.3  | 0.5   |
| 50°   | 438.3  | 424.6  | 365.5  | 290.1  | 205.7  | 123.4  | 67.5   | 36.4   | 16.3   | 3.7   | 0.5   |
| 52.5° | 229.9  | 213.1  | 175.6  | 134.0  | 83.3   | 51.7   | 29.5   | 15.8   | 4.7    | 0.5   | 0.5   |
| 55°   | 33.8   | 31.1   | 25.3   | 20.6   | 18.5   | 14.2   | 8.4    | 3.7    | 0.5    | 0.5   | 1.1   |
| 57.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.6    | 1.6    | 1.1    | 0.5    | 0.5    | 0.5   | 1.1   |
| 60°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 1.1   |
| 62.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 1.1   |
| 65°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 1.1   |
| 67.5° | 1.1    | 1.1    | 1.1    | 1.1    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 1.1   | 1.6   |
| 70°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 1.6   |
| 72.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 1.1   | 1.6   |
| 75°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 1.6   |
| 77.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 1.1   | 1.6   |
| 80°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 1.1   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 1.6   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 0.5   | 1.1   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5   | 1.1   |
| 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°    | 73.8 | 73.8   | 73.8 | 73.8   | 73.8 |
| 2.5°  | 72.8 | 53.8   | 41.7 | 35.9   | 35.3 |
| 5°    | 65.9 | 38.5   | 25.3 | 19.5   | 18.5 |
| 7.5°  | 55.9 | 26.9   | 14.8 | 10.5   | 10.0 |
| 10°   | 45.9 | 18.5   | 9.0  | 7.4    | 6.9  |
| 12.5° | 36.4 | 12.1   | 6.3  | 5.8    | 5.3  |
| 15°   | 28.0 | 7.9    | 4.7  | 4.2    | 4.2  |
| 17.5° | 21.1 | 5.3    | 3.7  | 3.7    | 3.7  |
| 20°   | 15.8 | 3.7    | 2.6  | 3.2    | 3.2  |
| 22.5° | 11.1 | 2.6    | 2.1  | 2.6    | 2.6  |
| 25°   | 7.9  | 2.1    | 2.1  | 2.6    | 2.6  |
| 27.5° | 5.3  | 1.6    | 1.6  | 2.1    | 2.6  |
| 30°   | 3.2  | 1.1    | 1.6  | 2.1    | 2.6  |
| 32.5° | 1.6  | 1.1    | 1.6  | 2.6    | 2.6  |
| 35°   | 1.1  | 1.6    | 2.1  | 2.6    | 3.2  |
| 37.5° | 0.5  | 1.6    | 2.1  | 3.2    | 3.2  |
| 40°   | 0.5  | 1.6    | 2.1  | 3.2    | 3.7  |
| 42.5° | 1.1  | 2.1    | 2.6  | 3.7    | 4.2  |
| 45°   | 1.1  | 2.1    | 3.2  | 4.2    | 4.7  |
| 47.5° | 1.1  | 2.1    | 3.7  | 4.7    | 4.7  |
| 50°   | 1.6  | 2.6    | 3.7  | 4.7    | 5.3  |
| 52.5° | 1.6  | 2.6    | 3.7  | 5.3    | 5.8  |
| 55°   | 1.6  | 2.6    | 4.2  | 5.3    | 5.8  |
| 57.5° | 1.6  | 3.2    | 4.2  | 5.3    | 5.8  |
| 60°   | 1.6  | 2.6    | 4.2  | 5.3    | 5.8  |
| 62.5° | 2.1  | 2.6    | 3.7  | 5.3    | 5.3  |
| 65°   | 2.1  | 2.6    | 3.7  | 5.3    | 5.3  |
| 67.5° | 2.1  | 2.6    | 3.7  | 4.7    | 4.7  |
| 70°   | 2.1  | 2.6    | 3.2  | 4.2    | 4.2  |
| 72.5° | 2.1  | 2.6    | 3.2  | 3.7    | 4.2  |
| 75°   | 1.6  | 2.1    | 2.6  | 3.2    | 3.7  |
| 77.5° | 1.6  | 2.1    | 2.1  | 3.2    | 3.2  |
| 80°   | 1.6  | 1.6    | 1.6  | 2.1    | 2.1  |
| 82.5° | 1.6  | 1.6    | 1.1  | 1.6    | 1.6  |
| 85°   | 1.6  | 1.1    | 1.1  | 1.1    | 1.1  |
| 87.5° | 1.1  | 1.1    | 0.5  | 0.5    | 0.5  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)