

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: P1346024

Luminaire Tested: P3A13R409730DE010 E3A301H

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1346024  
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: P3A13R409730DE010 E3A301H  
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 97CRI , E3A301H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

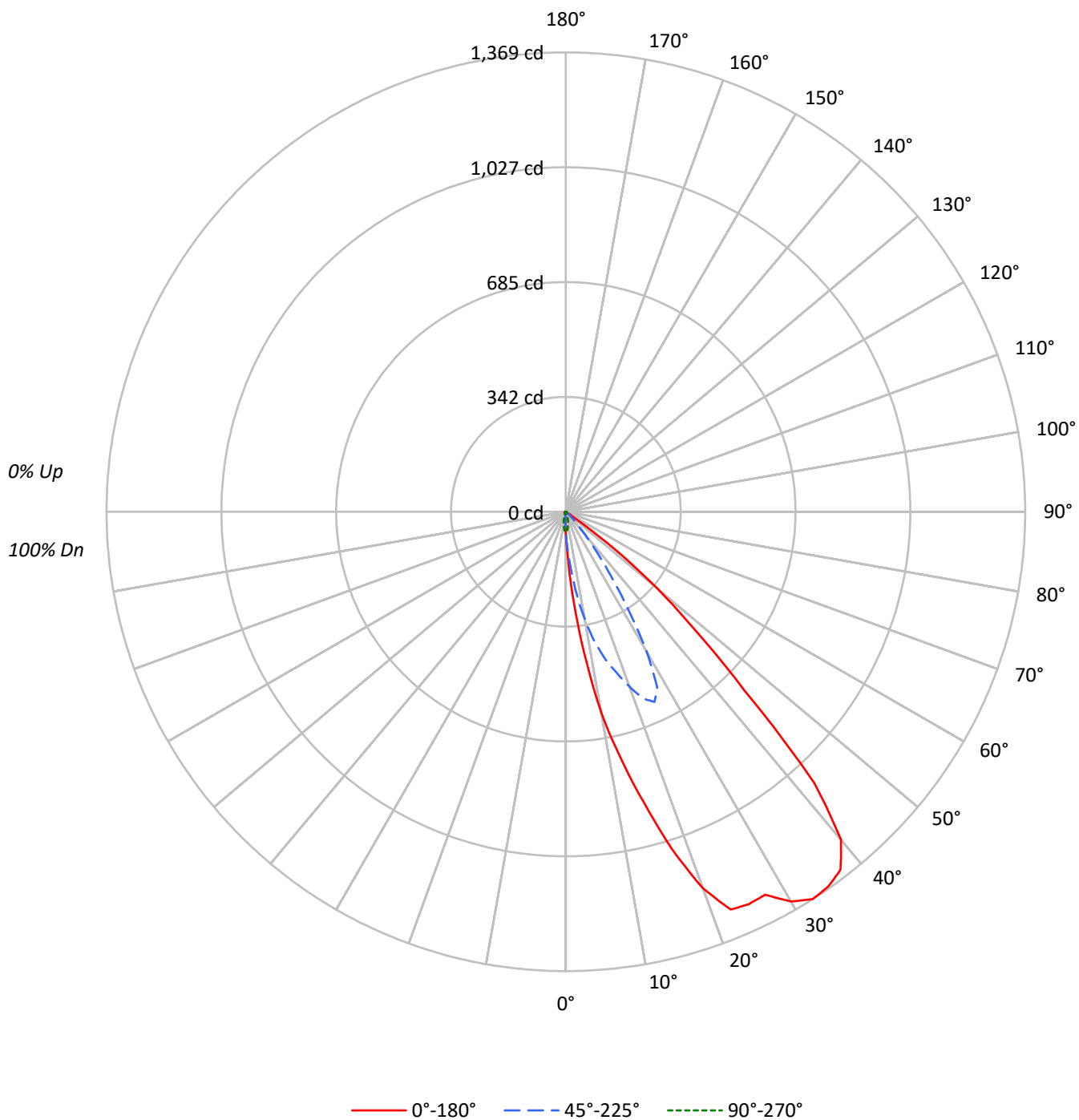
Lumens per Lamp: N/A  
Luminaire Lumens: 505.0 lumens  
Efficiency: N/A  
Efficacy: 34.6 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P3A13R409730DE010 E3A301H

### 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°  | 13113  | 13113  | 13113 | 13113 | 13113 |
| 5°  | 59102  | 37684  | 11754 | 4512  | 3280  |
| 10° | 135513 | 72789  | 8261  | 1625  | 1225  |
| 15° | 203384 | 103292 | 5131  | 863   | 772   |
| 20° | 278484 | 129488 | 2987  | 490   | 607   |
| 25° | 312187 | 151291 | 1548  | 411   | 508   |
| 30° | 339571 | 122120 | 658   | 329   | 532   |
| 35° | 364945 | 62506  | 241   | 455   | 696   |
| 40° | 365055 | 24932  | 115   | 487   | 859   |
| 45° | 233078 | 8342   | 279   | 806   | 1178  |
| 50° | 121002 | 1023   | 443   | 1023  | 1467  |
| 55° | 10437  | 153    | 497   | 1300  | 1797  |
| 60° | 395    | 175    | 570   | 1491  | 2061  |
| 65° | 467    | 208    | 882   | 1557  | 2231  |
| 70° | 256    | 256    | 1090  | 1667  | 2180  |
| 75° | 339    | 339    | 1101  | 1779  | 2542  |
| 80° | 505    | 505    | 1642  | 1642  | 2147  |
| 85° | 0      | 1006   | 3271  | 2264  | 2264  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 233078 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 11.6   | 2.3       |
| 10°-20°   | 68.4   | 13.5      |
| 20°-30°   | 149.7  | 29.6      |
| 30°-40°   | 170.5  | 33.8      |
| 40°-50°   | 90.0   | 17.8      |
| 50°-60°   | 10.6   | 2.1       |
| 60°-70°   | 1.9    | 0.4       |
| 70°-80°   | 1.6    | 0.3       |
| 80°-90°   | 0.7    | 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°    | 229.7  | 45.5      |
| 0°-40°    | 400.2  | 79.2      |
| 0°-60°    | 500.8  | 99.2      |
| 0°-90°    | 505.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 505.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 60   | 60  | 60  | 60   | 60   |      |
| 5°  | 268  | 171 | 53  | 20   | 15   | 36   |
| 15° | 896  | 455 | 23  | 4    | 3    | 264  |
| 25° | 1290 | 625 | 6   | 2    | 2    | 595  |
| 35° | 1363 | 234 | 1   | 2    | 3    | 845  |
| 45° | 752  | 27  | 1   | 3    | 4    | 606  |
| 55° | 27   | 0   | 1   | 3    | 5    | 85   |
| 65° | 1    | 0   | 2   | 3    | 4    | 1    |
| 75° | 0    | 0   | 1   | 2    | 3    | 0    |
| 85° | 0    | 0   | 1   | 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°    | 59.8   | 59.8   | 59.8   | 59.8   | 59.8   | 59.8   | 59.8   | 59.8   | 59.8  | 59.8  | 59.8  |
| 2.5°  | 133.2  | 133.2  | 132.7  | 128.9  | 128.5  | 128.0  | 121.2  | 119.5  | 111.4 | 105.9 | 80.7  |
| 5°    | 268.5  | 262.5  | 262.1  | 255.2  | 243.7  | 228.3  | 218.5  | 202.7  | 187.4 | 171.2 | 99.4  |
| 7.5°  | 427.7  | 432.8  | 418.7  | 411.5  | 385.8  | 367.5  | 339.3  | 314.6  | 280.0 | 247.6 | 114.8 |
| 10°   | 608.6  | 599.7  | 585.6  | 571.5  | 543.8  | 510.9  | 469.1  | 425.1  | 375.2 | 326.9 | 123.4 |
| 12.5° | 749.9  | 738.4  | 729.9  | 710.7  | 683.3  | 641.1  | 591.1  | 532.2  | 466.1 | 396.5 | 122.9 |
| 15°   | 895.9  | 884.4  | 865.2  | 848.1  | 807.5  | 760.2  | 706.0  | 628.3  | 547.2 | 455.0 | 114.0 |
| 17.5° | 1056.4 | 1041.4 | 1020.1 | 994.1  | 954.8  | 902.3  | 833.6  | 738.8  | 624.0 | 502.8 | 97.7  |
| 20°   | 1193.4 | 1184.4 | 1163.1 | 1132.3 | 1093.9 | 1042.7 | 963.3  | 858.3  | 718.3 | 554.9 | 77.7  |
| 22.5° | 1283.0 | 1274.9 | 1260.4 | 1233.5 | 1204.5 | 1149.8 | 1077.3 | 962.0  | 797.3 | 602.2 | 58.9  |
| 25°   | 1290.3 | 1286.9 | 1283.0 | 1274.0 | 1256.5 | 1217.7 | 1146.9 | 1022.7 | 846.4 | 625.3 | 43.5  |
| 27.5° | 1286.4 | 1285.1 | 1284.3 | 1279.6 | 1268.1 | 1229.7 | 1157.1 | 1031.6 | 840.0 | 589.4 | 32.0  |
| 30°   | 1341.1 | 1337.2 | 1335.1 | 1319.7 | 1289.4 | 1230.1 | 1135.3 | 983.4  | 746.5 | 482.3 | 23.0  |
| 32.5° | 1368.8 | 1367.9 | 1365.8 | 1350.9 | 1308.2 | 1230.9 | 1098.6 | 866.9  | 592.0 | 348.3 | 15.8  |
| 35°   | 1363.3 | 1359.0 | 1351.3 | 1323.6 | 1264.2 | 1167.3 | 980.0  | 692.3  | 427.2 | 233.5 | 10.2  |
| 37.5° | 1344.5 | 1334.7 | 1319.7 | 1269.8 | 1190.8 | 1058.5 | 794.7  | 509.6  | 290.7 | 151.1 | 6.0   |
| 40°   | 1275.3 | 1262.1 | 1238.6 | 1177.6 | 1073.9 | 872.4  | 587.7  | 344.4  | 190.8 | 87.1  | 1.7   |
| 42.5° | 1096.5 | 1079.4 | 1062.3 | 994.1  | 875.4  | 650.5  | 386.7  | 213.0  | 108.8 | 47.8  | 0.4   |
| 45°   | 751.6  | 730.3  | 706.8  | 657.3  | 562.1  | 394.0  | 230.1  | 119.9  | 56.3  | 26.9  | 0.4   |
| 47.5° | 522.0  | 512.2  | 471.2  | 408.0  | 312.9  | 208.7  | 119.1  | 58.9   | 29.9  | 12.4  | 0.4   |
| 50°   | 354.7  | 343.6  | 295.8  | 234.7  | 166.5  | 99.9   | 54.6   | 29.5   | 13.2  | 3.0   | 0.4   |
| 52.5° | 186.1  | 172.4  | 142.1  | 108.4  | 67.4   | 41.8   | 23.9   | 12.8   | 3.8   | 0.4   | 0.4   |
| 55°   | 27.3   | 25.2   | 20.5   | 16.6   | 14.9   | 11.5   | 6.8    | 3.0    | 0.4   | 0.4   | 0.9   |
| 57.5° | 0.9    | 0.9    | 0.9    | 0.9    | 1.3    | 1.3    | 0.9    | 0.4    | 0.4   | 0.4   | 0.9   |
| 60°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.9   |
| 62.5° | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.9   |
| 65°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.9   |
| 67.5° | 0.9    | 0.9    | 0.9    | 0.9    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.9   | 1.3   |
| 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   | 0.9   | 1.3   |
| 75°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 1.3   |
| 77.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.9   | 1.3   |
| 80°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.9   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 1.3   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4    | 0.4   | 0.4   | 0.9   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4   | 0.4   | 0.9   |
| 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°    | 59.8 | 59.8   | 59.8 | 59.8   | 59.8 |
| 2.5°  | 58.9 | 43.5   | 33.7 | 29.0   | 28.6 |
| 5°    | 53.4 | 31.2   | 20.5 | 15.8   | 14.9 |
| 7.5°  | 45.2 | 21.8   | 12.0 | 8.5    | 8.1  |
| 10°   | 37.1 | 14.9   | 7.3  | 6.0    | 5.5  |
| 12.5° | 29.5 | 9.8    | 5.1  | 4.7    | 4.3  |
| 15°   | 22.6 | 6.4    | 3.8  | 3.4    | 3.4  |
| 17.5° | 17.1 | 4.3    | 3.0  | 3.0    | 3.0  |
| 20°   | 12.8 | 3.0    | 2.1  | 2.6    | 2.6  |
| 22.5° | 9.0  | 2.1    | 1.7  | 2.1    | 2.1  |
| 25°   | 6.4  | 1.7    | 1.7  | 2.1    | 2.1  |
| 27.5° | 4.3  | 1.3    | 1.3  | 1.7    | 2.1  |
| 30°   | 2.6  | 0.9    | 1.3  | 1.7    | 2.1  |
| 32.5° | 1.3  | 0.9    | 1.3  | 2.1    | 2.1  |
| 35°   | 0.9  | 1.3    | 1.7  | 2.1    | 2.6  |
| 37.5° | 0.4  | 1.3    | 1.7  | 2.6    | 2.6  |
| 40°   | 0.4  | 1.3    | 1.7  | 2.6    | 3.0  |
| 42.5° | 0.9  | 1.7    | 2.1  | 3.0    | 3.4  |
| 45°   | 0.9  | 1.7    | 2.6  | 3.4    | 3.8  |
| 47.5° | 0.9  | 1.7    | 3.0  | 3.8    | 3.8  |
| 50°   | 1.3  | 2.1    | 3.0  | 3.8    | 4.3  |
| 52.5° | 1.3  | 2.1    | 3.0  | 4.3    | 4.7  |
| 55°   | 1.3  | 2.1    | 3.4  | 4.3    | 4.7  |
| 57.5° | 1.3  | 2.6    | 3.4  | 4.3    | 4.7  |
| 60°   | 1.3  | 2.1    | 3.4  | 4.3    | 4.7  |
| 62.5° | 1.7  | 2.1    | 3.0  | 4.3    | 4.3  |
| 65°   | 1.7  | 2.1    | 3.0  | 4.3    | 4.3  |
| 67.5° | 1.7  | 2.1    | 3.0  | 3.8    | 3.8  |
| 70°   | 1.7  | 2.1    | 2.6  | 3.4    | 3.4  |
| 72.5° | 1.7  | 2.1    | 2.6  | 3.0    | 3.4  |
| 75°   | 1.3  | 1.7    | 2.1  | 2.6    | 3.0  |
| 77.5° | 1.3  | 1.7    | 1.7  | 2.6    | 2.6  |
| 80°   | 1.3  | 1.3    | 1.3  | 1.7    | 1.7  |
| 82.5° | 1.3  | 1.3    | 0.9  | 1.3    | 1.3  |
| 85°   | 1.3  | 0.9    | 0.9  | 0.9    | 0.9  |
| 87.5° | 0.9  | 0.9    | 0.4  | 0.4    | 0.4  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)