

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: P1346122

Luminaire Tested: P3A13R409840DE010 E3A301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1346122  
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: P3A13R409840DE010 E3A301MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 98CRI , E3A301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

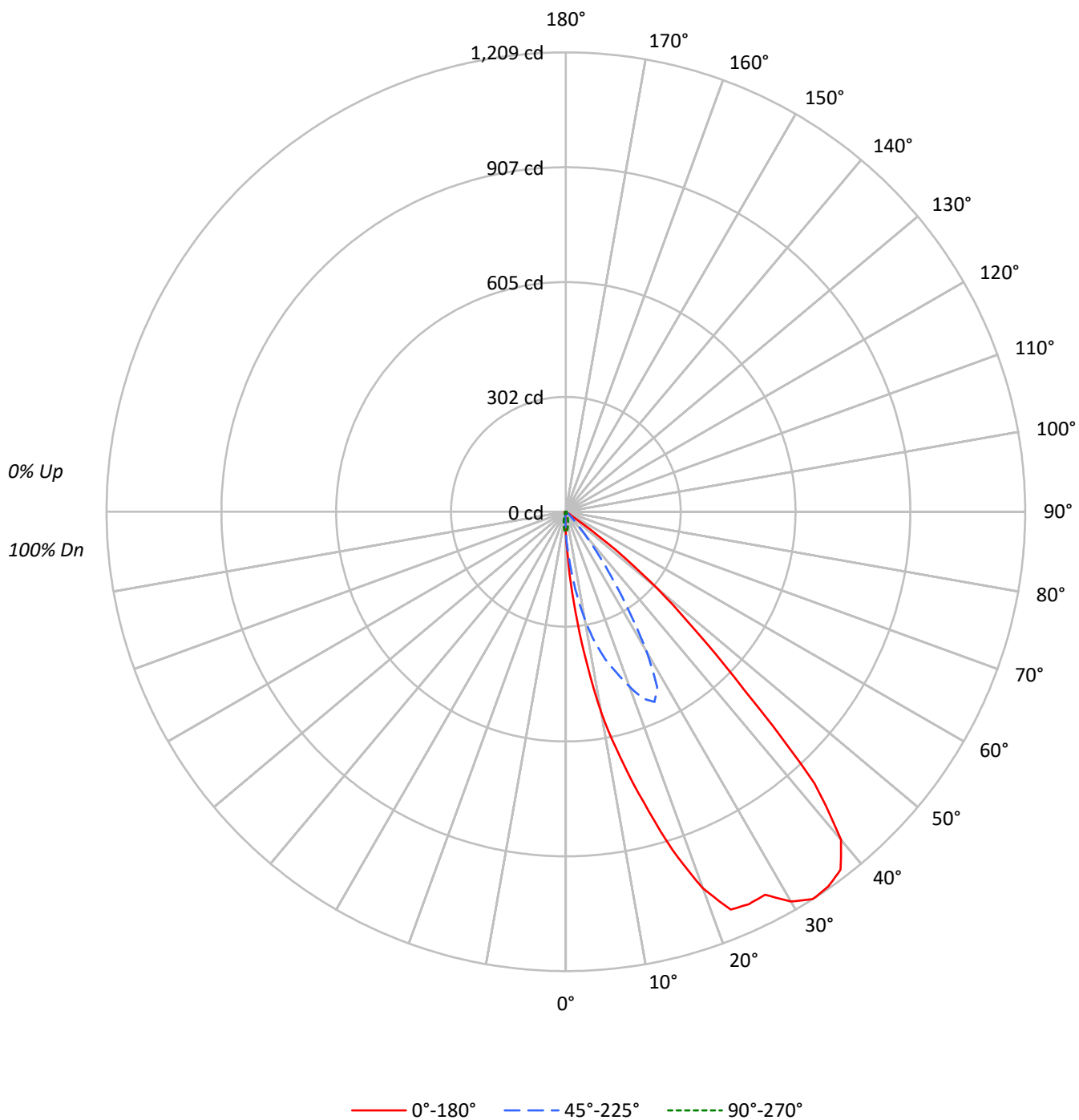
Lumens per Lamp: N/A  
Luminaire Lumens: 446.0 lumens  
Efficiency: N/A  
Efficacy: 30.8 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
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: P3A13R409840DE010 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 | 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°  | 11578  | 11578  | 11578 | 11578 | 11578 |
| 5°  | 52190  | 33282  | 10368 | 3984  | 2906  |
| 10° | 119682 | 64283  | 7303  | 1425  | 1091  |
| 15° | 179615 | 91215  | 4540  | 772   | 681   |
| 20° | 245955 | 114343 | 2637  | 443   | 537   |
| 25° | 275701 | 133604 | 1379  | 363   | 460   |
| 30° | 299894 | 107865 | 582   | 279   | 481   |
| 35° | 322302 | 55198  | 214   | 402   | 616   |
| 40° | 322404 | 22013  | 115   | 429   | 744   |
| 45° | 205851 | 7350   | 248   | 713   | 1054  |
| 50° | 106845 | 887    | 375   | 887   | 1296  |
| 55° | 9214   | 153    | 421   | 1147  | 1567  |
| 60° | 351    | 175    | 482   | 1316  | 1798  |
| 65° | 415    | 208    | 778   | 1349  | 1972  |
| 70° | 256    | 256    | 962   | 1475  | 1923  |
| 75° | 339    | 339    | 932   | 1610  | 2203  |
| 80° | 505    | 505    | 1389  | 1389  | 1894  |
| 85° | 0      | 1006   | 2768  | 2013  | 2013  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 205851 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 10.3   | 2.3       |
| 10°-20°   | 60.4   | 13.5      |
| 20°-30°   | 132.2  | 29.6      |
| 30°-40°   | 150.6  | 33.8      |
| 40°-50°   | 79.5   | 17.8      |
| 50°-60°   | 9.4    | 2.1       |
| 60°-70°   | 1.7    | 0.4       |
| 70°-80°   | 1.4    | 0.3       |
| 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°    | 202.9  | 45.5      |
| 0°-40°    | 353.5  | 79.2      |
| 0°-60°    | 442.3  | 99.2      |
| 0°-90°    | 446.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 446.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 53   | 53  | 53  | 53   | 53   |      |
| 5°  | 237  | 151 | 47  | 18   | 13   | 32   |
| 15° | 791  | 402 | 20  | 3    | 3    | 233  |
| 25° | 1140 | 552 | 6   | 2    | 2    | 525  |
| 35° | 1204 | 206 | 1   | 2    | 2    | 746  |
| 45° | 664  | 24  | 1   | 2    | 3    | 535  |
| 55° | 24   | 0   | 1   | 3    | 4    | 75   |
| 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°    | 52.8   | 52.8   | 52.8   | 52.8   | 52.8   | 52.8   | 52.8   | 52.8  | 52.8  | 52.8  | 52.8  |
| 2.5°  | 117.6  | 117.6  | 117.2  | 113.8  | 113.5  | 113.1  | 107.1  | 105.5 | 98.4  | 93.5  | 71.2  |
| 5°    | 237.1  | 231.8  | 231.4  | 225.4  | 215.2  | 201.7  | 193.0  | 179.1 | 165.5 | 151.2 | 87.8  |
| 7.5°  | 377.7  | 382.2  | 369.8  | 363.4  | 340.8  | 324.6  | 299.7  | 277.8 | 247.3 | 218.6 | 101.4 |
| 10°   | 537.5  | 529.6  | 517.2  | 504.7  | 480.2  | 451.2  | 414.3  | 375.4 | 331.3 | 288.7 | 108.9 |
| 12.5° | 662.3  | 652.1  | 644.6  | 627.6  | 603.5  | 566.2  | 522.1  | 470.1 | 411.6 | 350.2 | 108.6 |
| 15°   | 791.2  | 781.0  | 764.1  | 749.0  | 713.2  | 671.4  | 623.5  | 554.9 | 483.3 | 401.8 | 100.6 |
| 17.5° | 933.0  | 919.8  | 900.9  | 877.9  | 843.2  | 796.9  | 736.2  | 652.5 | 551.1 | 444.0 | 86.3  |
| 20°   | 1054.0 | 1046.0 | 1027.2 | 1000.1 | 966.1  | 920.9  | 850.8  | 758.0 | 634.4 | 490.0 | 68.6  |
| 22.5° | 1133.1 | 1126.0 | 1113.1 | 1089.4 | 1063.8 | 1015.5 | 951.4  | 849.6 | 704.1 | 531.9 | 52.0  |
| 25°   | 1139.5 | 1136.5 | 1133.1 | 1125.2 | 1109.7 | 1075.4 | 1012.9 | 903.2 | 747.5 | 552.2 | 38.4  |
| 27.5° | 1136.1 | 1135.0 | 1134.2 | 1130.1 | 1119.9 | 1086.0 | 1021.9 | 911.1 | 741.8 | 520.6 | 28.3  |
| 30°   | 1184.4 | 1181.0 | 1179.1 | 1165.5 | 1138.8 | 1086.4 | 1002.7 | 868.5 | 659.3 | 426.0 | 20.4  |
| 32.5° | 1208.9 | 1208.1 | 1206.2 | 1193.1 | 1155.4 | 1087.1 | 970.3  | 765.6 | 522.8 | 307.6 | 13.9  |
| 35°   | 1204.0 | 1200.2 | 1193.4 | 1168.9 | 1116.5 | 1031.0 | 865.5  | 611.4 | 377.3 | 206.2 | 9.0   |
| 37.5° | 1187.4 | 1178.7 | 1165.5 | 1121.4 | 1051.7 | 934.8  | 701.9  | 450.1 | 256.7 | 133.4 | 5.3   |
| 40°   | 1126.3 | 1114.6 | 1093.9 | 1040.0 | 948.4  | 770.5  | 519.1  | 304.2 | 168.5 | 76.9  | 1.5   |
| 42.5° | 968.4  | 953.3  | 938.2  | 877.9  | 773.1  | 574.5  | 341.5  | 188.1 | 96.1  | 42.2  | 0.4   |
| 45°   | 663.8  | 645.0  | 624.2  | 580.5  | 496.4  | 347.9  | 203.2  | 105.9 | 49.8  | 23.7  | 0.4   |
| 47.5° | 461.0  | 452.3  | 416.2  | 360.4  | 276.3  | 184.3  | 105.2  | 52.0  | 26.4  | 10.9  | 0.4   |
| 50°   | 313.2  | 303.4  | 261.2  | 207.3  | 147.0  | 88.2   | 48.2   | 26.0  | 11.7  | 2.6   | 0.4   |
| 52.5° | 164.4  | 152.3  | 125.5  | 95.7   | 59.6   | 36.9   | 21.1   | 11.3  | 3.4   | 0.4   | 0.4   |
| 55°   | 24.1   | 22.2   | 18.1   | 14.7   | 13.2   | 10.2   | 6.0    | 2.6   | 0.4   | 0.4   | 0.8   |
| 57.5° | 0.8    | 0.8    | 0.8    | 0.8    | 1.1    | 1.1    | 0.8    | 0.4   | 0.4   | 0.4   | 0.8   |
| 60°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.4    | 0.4    | 0.4   | 0.4   | 0.4   | 0.8   |
| 62.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.4    | 0.4    | 0.4   | 0.4   | 0.4   | 0.8   |
| 65°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.4    | 0.4    | 0.4   | 0.4   | 0.4   | 0.8   |
| 67.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.8   | 1.1   |
| 70°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.4   | 1.1   |
| 72.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.8   | 1.1   |
| 75°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.4   | 1.1   |
| 77.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.8   | 1.1   |
| 80°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 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   | 1.1   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4   | 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°    | 52.8 | 52.8   | 52.8 | 52.8   | 52.8 |
| 2.5°  | 52.0 | 38.4   | 29.8 | 25.6   | 25.3 |
| 5°    | 47.1 | 27.5   | 18.1 | 13.9   | 13.2 |
| 7.5°  | 40.0 | 19.2   | 10.6 | 7.5    | 7.2  |
| 10°   | 32.8 | 13.2   | 6.4  | 5.3    | 4.9  |
| 12.5° | 26.0 | 8.7    | 4.5  | 4.1    | 3.8  |
| 15°   | 20.0 | 5.7    | 3.4  | 3.0    | 3.0  |
| 17.5° | 15.1 | 3.8    | 2.6  | 2.6    | 2.6  |
| 20°   | 11.3 | 2.6    | 1.9  | 2.3    | 2.3  |
| 22.5° | 7.9  | 1.9    | 1.5  | 1.9    | 1.9  |
| 25°   | 5.7  | 1.5    | 1.5  | 1.9    | 1.9  |
| 27.5° | 3.8  | 1.1    | 1.1  | 1.5    | 1.9  |
| 30°   | 2.3  | 0.8    | 1.1  | 1.5    | 1.9  |
| 32.5° | 1.1  | 0.8    | 1.1  | 1.9    | 1.9  |
| 35°   | 0.8  | 1.1    | 1.5  | 1.9    | 2.3  |
| 37.5° | 0.4  | 1.1    | 1.5  | 2.3    | 2.3  |
| 40°   | 0.4  | 1.1    | 1.5  | 2.3    | 2.6  |
| 42.5° | 0.8  | 1.5    | 1.9  | 2.6    | 3.0  |
| 45°   | 0.8  | 1.5    | 2.3  | 3.0    | 3.4  |
| 47.5° | 0.8  | 1.5    | 2.6  | 3.4    | 3.4  |
| 50°   | 1.1  | 1.9    | 2.6  | 3.4    | 3.8  |
| 52.5° | 1.1  | 1.9    | 2.6  | 3.8    | 4.1  |
| 55°   | 1.1  | 1.9    | 3.0  | 3.8    | 4.1  |
| 57.5° | 1.1  | 2.3    | 3.0  | 3.8    | 4.1  |
| 60°   | 1.1  | 1.9    | 3.0  | 3.8    | 4.1  |
| 62.5° | 1.5  | 1.9    | 2.6  | 3.8    | 3.8  |
| 65°   | 1.5  | 1.9    | 2.6  | 3.8    | 3.8  |
| 67.5° | 1.5  | 1.9    | 2.6  | 3.4    | 3.4  |
| 70°   | 1.5  | 1.9    | 2.3  | 3.0    | 3.0  |
| 72.5° | 1.5  | 1.9    | 2.3  | 2.6    | 3.0  |
| 75°   | 1.1  | 1.5    | 1.9  | 2.3    | 2.6  |
| 77.5° | 1.1  | 1.5    | 1.5  | 2.3    | 2.3  |
| 80°   | 1.1  | 1.1    | 1.1  | 1.5    | 1.5  |
| 82.5° | 1.1  | 1.1    | 0.8  | 1.1    | 1.1  |
| 85°   | 1.1  | 0.8    | 0.8  | 0.8    | 0.8  |
| 87.5° | 0.8  | 0.8    | 0.4  | 0.4    | 0.4  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)