

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: P1343074

Luminaire Tested: P3A09R459835DE010 E3A301WMH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1343074  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A09R459835DE010 E3A301WMH  
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 98CRI , E3A301WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

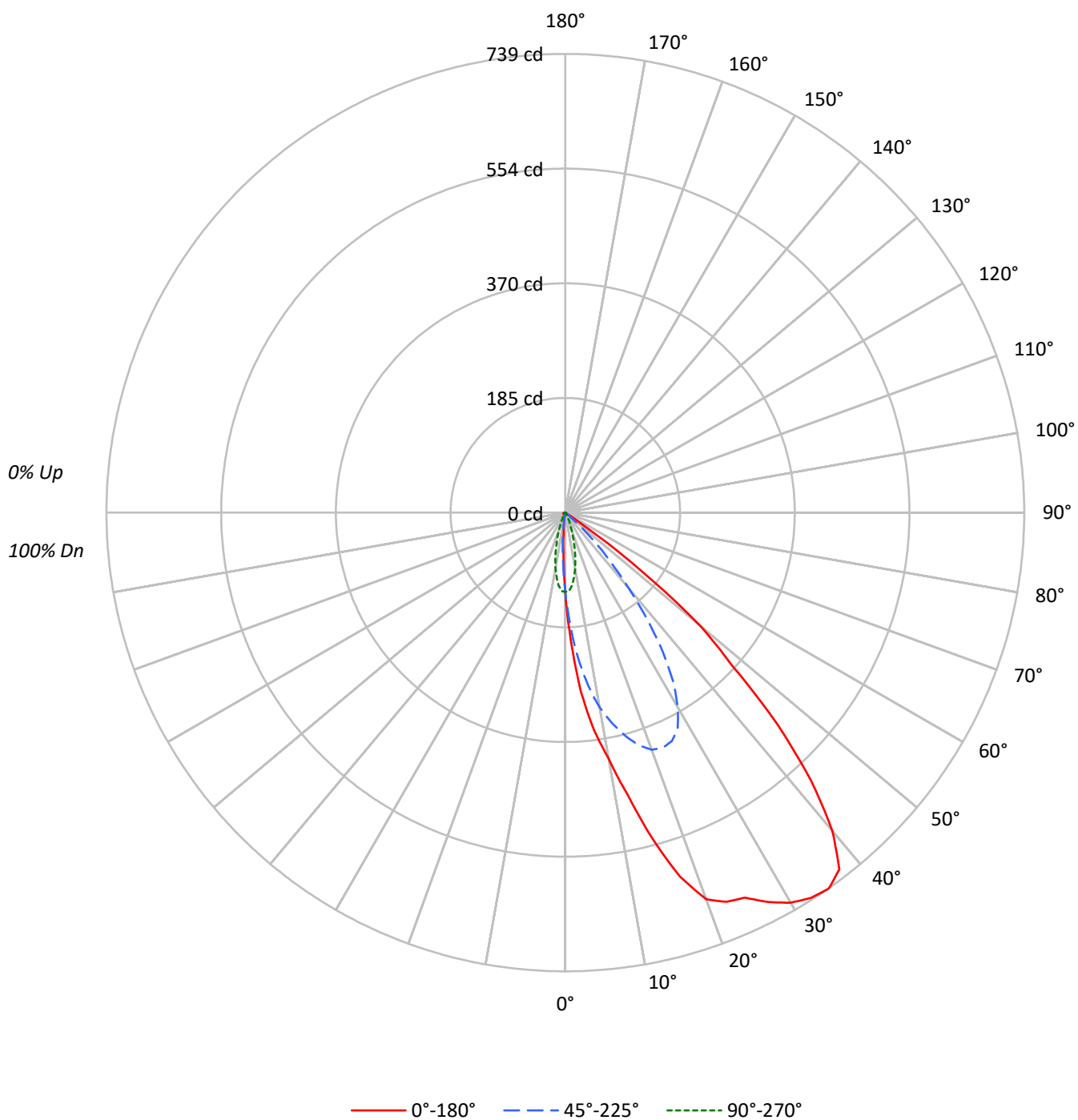
Lumens per Lamp: N/A  
Luminaire Lumens: 335.0 lumens  
Efficiency: N/A  
Efficacy: 30.5 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11  
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

TEST NUMBER: P1343074

CATALOG NUMBER: P3A09R459835DE010 E3A301WMH

### 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 | 102 | 102 | 100 |
| 1   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 93  | 93  | 91  |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 93  | 90  | 95  | 91  | 88  | 91  | 88  | 86  | 89  | 86  | 84  | 84  | 84  | 82  |
| 3   | 99  | 91  | 85  | 80  | 96  | 89  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 76  | 76  | 74  |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 77  | 73  | 69  | 76  | 72  | 68  | 68  | 68  | 67  |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 64  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 62  | 62  | 60  |
| 6   | 81  | 70  | 63  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 60  | 56  | 56  | 56  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 57  | 52  | 62  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 51  | 51  | 51  | 49  |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 46  | 46  | 46  | 45  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 51  | 46  | 42  | 42  | 42  | 41  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 39  | 39  | 37  |

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

|     | 0°     | 45°   | 90°   | 135°  | 180°  |
|-----|--------|-------|-------|-------|-------|
| 0°  | 27958  | 27958 | 27958 | 27958 | 27958 |
| 5°  | 63702  | 51684 | 26150 | 10478 | 7154  |
| 10° | 89778  | 70985 | 20218 | 2316  | 1069  |
| 15° | 123701 | 84473 | 12917 | 772   | 636   |
| 20° | 154690 | 94858 | 6744  | 513   | 513   |
| 25° | 165542 | 98231 | 3121  | 411   | 484   |
| 30° | 183724 | 91736 | 1418  | 430   | 506   |
| 35° | 197932 | 73134 | 455   | 455   | 589   |
| 40° | 191502 | 45313 | 229   | 573   | 716   |
| 45° | 150403 | 21367 | 248   | 682   | 868   |
| 50° | 96611  | 2490  | 375   | 853   | 1160  |
| 55° | 14680  | 229   | 421   | 1070  | 1376  |
| 60° | 263    | 263   | 482   | 1228  | 1491  |
| 65° | 311    | 311   | 571   | 1297  | 1764  |
| 70° | 385    | 385   | 705   | 1410  | 1988  |
| 75° | 254    | 508   | 932   | 1694  | 2118  |
| 80° | 379    | 758   | 1010  | 1768  | 2526  |
| 85° | 0      | 755   | 1510  | 2013  | 2013  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 150403 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 13.9   | 4.2       |
| 10°-20°   | 50.4   | 15.1      |
| 20°-30°   | 88.6   | 26.4      |
| 30°-40°   | 100.6  | 30.0      |
| 40°-50°   | 65.2   | 19.4      |
| 50°-60°   | 12.8   | 3.8       |
| 60°-70°   | 1.6    | 0.5       |
| 70°-80°   | 1.3    | 0.4       |
| 80°-90°   | 0.6    | 0.2       |
| 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°    | 153.0  | 45.7      |
| 0°-40°    | 253.6  | 75.7      |
| 0°-60°    | 331.6  | 99.0      |
| 0°-90°    | 335.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 335.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 128 | 128 | 128 | 128  | 128  |      |
| 5°  | 289 | 235 | 119 | 48   | 32   | 31   |
| 15° | 545 | 372 | 57  | 3    | 3    | 157  |
| 25° | 684 | 406 | 13  | 2    | 2    | 321  |
| 35° | 739 | 273 | 2   | 2    | 2    | 455  |
| 45° | 485 | 69  | 1   | 2    | 3    | 366  |
| 55° | 38  | 1   | 1   | 3    | 4    | 73   |
| 65° | 1   | 1   | 1   | 2    | 3    | 1    |
| 75° | 0   | 1   | 1   | 2    | 2    | 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°   | 50°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 127.5 | 127.5 | 127.5 | 127.5 | 127.5 | 127.5 | 127.5 | 127.5 | 127.5 | 127.5 | 127.5 |
| 2.5°  | 207.0 | 206.5 | 207.3 | 201.7 | 201.4 | 197.2 | 196.1 | 191.4 | 184.9 | 181.8 | 174.5 |
| 5°    | 289.4 | 286.6 | 286.6 | 279.9 | 277.6 | 272.9 | 264.8 | 254.7 | 246.3 | 234.8 | 222.4 |
| 7.5°  | 353.0 | 352.4 | 352.4 | 346.6 | 341.0 | 334.2 | 323.3 | 311.8 | 298.4 | 280.7 | 262.8 |
| 10°   | 403.2 | 404.0 | 401.5 | 396.2 | 388.0 | 380.7 | 367.9 | 353.8 | 337.3 | 318.8 | 295.0 |
| 12.5° | 466.5 | 460.3 | 458.3 | 446.3 | 435.9 | 421.9 | 406.5 | 390.5 | 370.1 | 346.8 | 319.9 |
| 15°   | 544.9 | 537.1 | 529.2 | 513.3 | 495.9 | 474.3 | 450.2 | 426.7 | 400.4 | 372.1 | 338.4 |
| 17.5° | 615.0 | 615.0 | 604.6 | 579.4 | 557.0 | 525.0 | 492.5 | 461.1 | 430.1 | 392.8 | 350.8 |
| 20°   | 662.9 | 660.3 | 652.5 | 634.0 | 608.5 | 572.4 | 530.1 | 486.1 | 448.5 | 406.5 | 357.8 |
| 22.5° | 678.6 | 678.0 | 678.3 | 667.3 | 646.9 | 609.4 | 557.5 | 505.7 | 458.6 | 409.9 | 354.4 |
| 25°   | 684.2 | 685.3 | 688.1 | 683.9 | 668.5 | 630.9 | 574.3 | 514.9 | 461.7 | 406.0 | 341.5 |
| 27.5° | 707.4 | 705.2 | 708.3 | 705.5 | 688.1 | 643.3 | 577.7 | 512.7 | 455.0 | 391.7 | 318.5 |
| 30°   | 725.6 | 725.1 | 730.4 | 727.9 | 705.2 | 651.1 | 574.6 | 504.3 | 438.5 | 362.3 | 282.4 |
| 32.5° | 736.0 | 736.3 | 737.7 | 727.3 | 693.7 | 634.0 | 559.5 | 487.2 | 407.4 | 323.9 | 235.3 |
| 35°   | 739.4 | 737.7 | 729.8 | 704.3 | 658.4 | 594.5 | 522.2 | 446.6 | 365.1 | 273.2 | 186.0 |
| 37.5° | 724.8 | 716.1 | 695.9 | 657.8 | 604.6 | 544.9 | 474.6 | 395.3 | 307.1 | 215.7 | 138.7 |
| 40°   | 669.0 | 657.5 | 632.0 | 593.1 | 543.5 | 485.8 | 413.8 | 330.9 | 238.1 | 158.3 | 97.5  |
| 42.5° | 585.5 | 579.7 | 553.0 | 519.1 | 477.1 | 418.8 | 344.6 | 260.6 | 176.2 | 109.3 | 62.2  |
| 45°   | 485.0 | 477.4 | 460.6 | 430.6 | 397.6 | 336.5 | 267.3 | 186.6 | 120.2 | 68.9  | 30.8  |
| 47.5° | 363.7 | 364.2 | 352.7 | 330.0 | 297.5 | 246.5 | 182.9 | 125.2 | 75.4  | 35.6  | 7.0   |
| 50°   | 283.2 | 279.3 | 263.1 | 239.8 | 202.0 | 164.2 | 118.2 | 79.0  | 39.8  | 7.3   | 0.6   |
| 52.5° | 156.9 | 159.4 | 150.7 | 143.2 | 123.6 | 98.1  | 69.8  | 40.1  | 8.4   | 0.8   | 0.6   |
| 55°   | 38.4  | 40.6  | 38.9  | 39.8  | 41.2  | 36.7  | 28.3  | 7.8   | 0.8   | 0.6   | 0.6   |
| 57.5° | 0.8   | 0.8   | 0.8   | 0.8   | 1.4   | 2.0   | 2.0   | 0.6   | 0.6   | 0.6   | 0.6   |
| 60°   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 62.5° | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 65°   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 67.5° | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 70°   | 0.6   | 0.6   | 0.6   | 0.3   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 72.5° | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.6   | 0.6   | 0.6   |
| 75°   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.6   | 0.6   | 0.6   |
| 77.5° | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.6   | 0.6   |
| 80°   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.6   | 0.6   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.6   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   | 0.3   | 0.3   |
| 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):**

|       | 55°   | 60°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0°    | 127.5 | 127.5 | 127.5 | 127.5 | 127.5  | 127.5 | 127.5  | 127.5 |
| 2.5°  | 170.9 | 165.6 | 155.8 | 126.6 | 101.7  | 82.1  | 70.3   | 69.2  |
| 5°    | 211.5 | 197.2 | 176.5 | 118.8 | 75.1   | 47.6  | 34.5   | 32.5  |
| 7.5°  | 243.7 | 223.6 | 191.6 | 105.9 | 51.3   | 24.4  | 13.4   | 11.2  |
| 10°   | 270.4 | 241.8 | 199.5 | 90.8  | 32.2   | 10.4  | 5.6    | 4.8   |
| 12.5° | 288.6 | 254.1 | 200.9 | 74.0  | 18.5   | 5.0   | 3.6    | 3.4   |
| 15°   | 300.3 | 258.0 | 194.2 | 56.9  | 10.4   | 3.4   | 3.1    | 2.8   |
| 17.5° | 305.1 | 254.7 | 181.3 | 41.2  | 5.6    | 2.5   | 2.5    | 2.5   |
| 20°   | 302.9 | 243.7 | 162.2 | 28.9  | 3.6    | 2.2   | 2.2    | 2.2   |
| 22.5° | 292.2 | 225.0 | 138.4 | 19.3  | 2.5    | 2.0   | 2.0    | 2.0   |
| 25°   | 271.2 | 199.5 | 113.2 | 12.9  | 1.7    | 1.7   | 2.0    | 2.0   |
| 27.5° | 239.8 | 168.1 | 86.6  | 8.7   | 1.4    | 1.7   | 2.0    | 2.0   |
| 30°   | 200.3 | 133.1 | 62.2  | 5.6   | 1.4    | 1.7   | 1.7    | 2.0   |
| 32.5° | 159.1 | 96.9  | 40.9  | 3.4   | 1.1    | 1.7   | 2.0    | 2.2   |
| 35°   | 115.4 | 66.1  | 26.1  | 1.7   | 1.4    | 1.7   | 2.0    | 2.2   |
| 37.5° | 81.0  | 43.1  | 15.1  | 1.1   | 1.4    | 1.7   | 2.2    | 2.2   |
| 40°   | 52.7  | 24.1  | 5.6   | 0.8   | 1.4    | 2.0   | 2.2    | 2.5   |
| 42.5° | 27.5  | 8.4   | 1.1   | 0.8   | 1.4    | 2.0   | 2.5    | 2.8   |
| 45°   | 7.0   | 1.1   | 0.3   | 0.8   | 1.7    | 2.2   | 2.8    | 2.8   |
| 47.5° | 0.8   | 0.3   | 0.3   | 1.1   | 1.7    | 2.5   | 2.8    | 3.1   |
| 50°   | 0.3   | 0.6   | 0.6   | 1.1   | 1.7    | 2.5   | 3.1    | 3.4   |
| 52.5° | 0.6   | 0.6   | 0.6   | 1.1   | 2.0    | 2.5   | 3.4    | 3.6   |
| 55°   | 0.6   | 0.6   | 0.6   | 1.1   | 2.0    | 2.8   | 3.4    | 3.6   |
| 57.5° | 0.6   | 0.6   | 0.6   | 1.1   | 2.0    | 2.8   | 3.4    | 3.4   |
| 60°   | 0.6   | 0.6   | 0.6   | 1.1   | 2.0    | 2.8   | 3.4    | 3.4   |
| 62.5° | 0.6   | 0.6   | 0.8   | 1.1   | 2.0    | 2.5   | 3.4    | 3.4   |
| 65°   | 0.6   | 0.8   | 0.8   | 1.1   | 2.0    | 2.5   | 3.1    | 3.4   |
| 67.5° | 0.6   | 0.6   | 0.8   | 1.1   | 2.0    | 2.5   | 3.1    | 3.4   |
| 70°   | 0.6   | 0.6   | 0.8   | 1.1   | 1.7    | 2.2   | 2.8    | 3.1   |
| 72.5° | 0.6   | 0.6   | 0.8   | 1.1   | 1.7    | 2.2   | 2.5    | 2.8   |
| 75°   | 0.6   | 0.6   | 0.8   | 1.1   | 1.4    | 2.0   | 2.5    | 2.5   |
| 77.5° | 0.6   | 0.6   | 0.8   | 0.8   | 1.4    | 1.7   | 2.2    | 2.2   |
| 80°   | 0.6   | 0.6   | 0.8   | 0.8   | 1.1    | 1.4   | 1.7    | 2.0   |
| 82.5° | 0.6   | 0.6   | 0.6   | 0.8   | 0.8    | 1.1   | 1.4    | 1.4   |
| 85°   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6    | 0.8   | 0.8    | 0.8   |
| 87.5° | 0.3   | 0.6   | 0.6   | 0.6   | 0.6    | 0.6   | 0.6    | 0.3   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)