

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: P1339528

Luminaire Tested: P3A05R459835DE010 E3A301WMH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1339528  
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: P3A05R459835DE010 E3A301WMH  
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 98CRI , E3A301WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

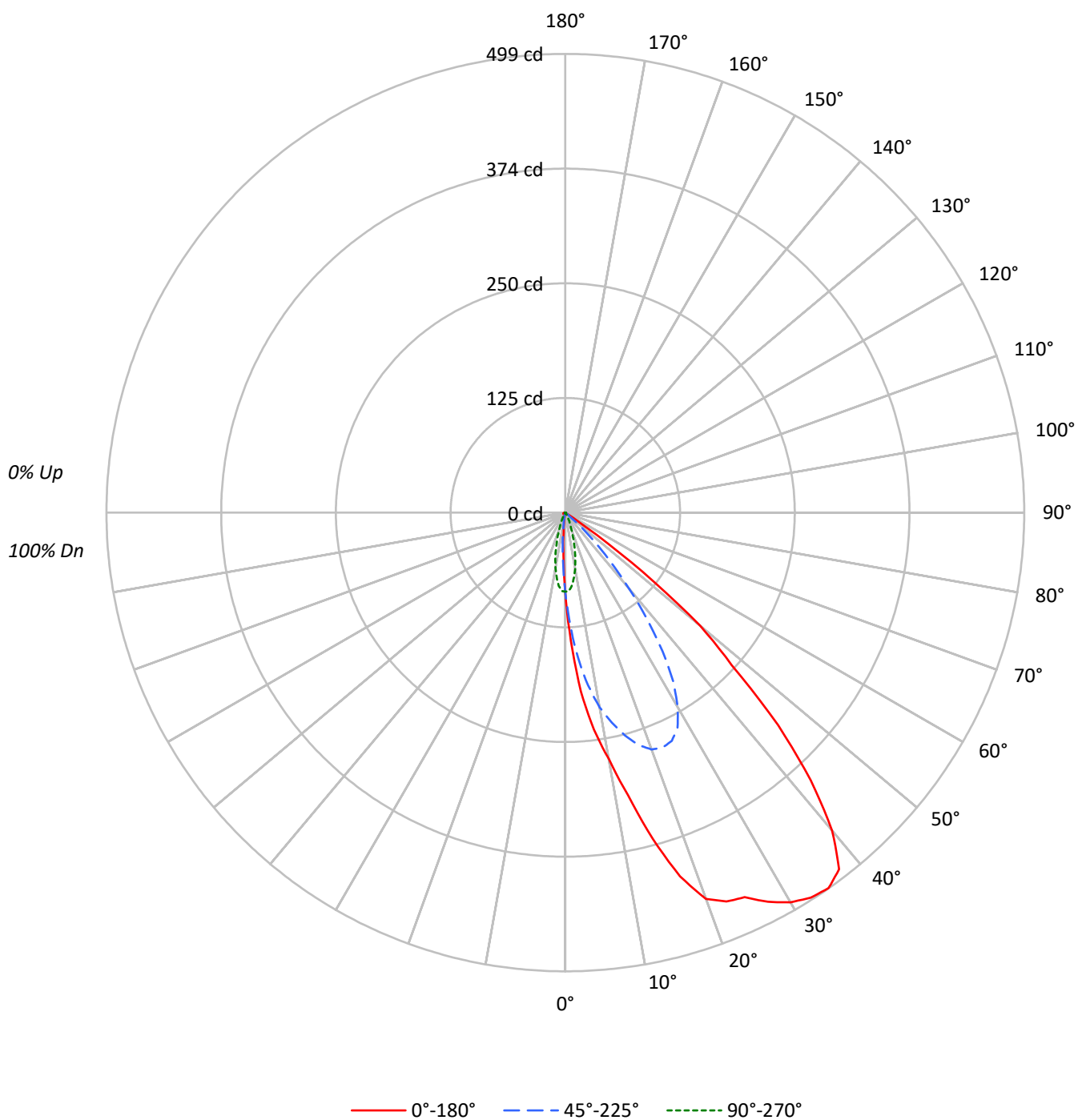
Lumens per Lamp: N/A  
Luminaire Lumens: 226.1 lumens  
Efficiency: N/A  
Efficacy: 31.4 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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: P1339528

CATALOG NUMBER: P3A05R459835DE010 E3A301WMH

### Luminous Intensity Polar Plot



TEST NUMBER: P1339528

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |    |    |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  |     |    | 0  |
| 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  | 93  | 90  | 94  | 91  | 88  | 91  | 88  | 86  | 89  | 86  | 84  | 82  |    |    |
| 3   | 99  | 91  | 85  | 80  | 96  | 89  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 74  |    |    |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 77  | 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   | 81  | 70  | 63  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 60  | 56  | 54  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 57  | 52  | 62  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 51  | 49  |    |    |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 46  | 45  |    |    |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 43  | 52  | 47  | 42  | 51  | 46  | 42  | 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°  | 18858  | 18858 | 18858 | 18858 | 18858 |
| 5°  | 42967  | 34867 | 17631 | 7066  | 4821  |
| 10° | 60564  | 47895 | 13627 | 1559  | 713   |
| 15° | 83451  | 56981 | 8717  | 522   | 431   |
| 20° | 104356 | 63986 | 4550  | 350   | 350   |
| 25° | 111684 | 66270 | 2105  | 266   | 315   |
| 30° | 123943 | 61883 | 962   | 279   | 329   |
| 35° | 133525 | 49336 | 294   | 294   | 402   |
| 40° | 129185 | 30572 | 172   | 372   | 487   |
| 45° | 101468 | 14420 | 186   | 465   | 589   |
| 50° | 65192  | 1672  | 273   | 580   | 785   |
| 55° | 9902   | 153   | 306   | 726   | 956   |
| 60° | 175    | 175   | 351   | 833   | 1009  |
| 65° | 208    | 208   | 415   | 882   | 1193  |
| 70° | 256    | 256   | 513   | 962   | 1346  |
| 75° | 169    | 339   | 678   | 1101  | 1440  |
| 80° | 253    | 505   | 758   | 1137  | 1642  |
| 85° | 0      | 503   | 1006  | 1510  | 1510  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 101468 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 9.4    | 4.2       |
| 10°-20°   | 34.0   | 15.1      |
| 20°-30°   | 59.8   | 26.4      |
| 30°-40°   | 67.9   | 30.0      |
| 40°-50°   | 44.0   | 19.4      |
| 50°-60°   | 8.6    | 3.8       |
| 60°-70°   | 1.1    | 0.5       |
| 70°-80°   | 0.9    | 0.4       |
| 80°-90°   | 0.4    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 103.2  | 45.7      |
| 0°-40°    | 171.1  | 75.7      |
| 0°-60°    | 223.7  | 99.0      |
| 0°-90°    | 226.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 226.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 86  | 86  | 86  | 86   | 86   |      |
| 5°  | 195 | 158 | 80  | 32   | 22   | 21   |
| 15° | 368 | 251 | 38  | 2    | 2    | 106  |
| 25° | 462 | 274 | 9   | 1    | 1    | 216  |
| 35° | 499 | 184 | 1   | 1    | 2    | 307  |
| 45° | 327 | 46  | 1   | 2    | 2    | 247  |
| 55° | 26  | 0   | 1   | 2    | 2    | 49   |
| 65° | 0   | 0   | 1   | 2    | 2    | 0    |
| 75° | 0   | 0   | 1   | 1    | 2    | 0    |
| 85° | 0   | 0   | 0   | 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°    | 86.0  | 86.0  | 86.0  | 86.0  | 86.0  | 86.0  | 86.0  | 86.0  | 86.0  | 86.0  | 86.0  |
| 2.5°  | 139.7 | 139.3 | 139.9 | 136.1 | 135.9 | 133.1 | 132.3 | 129.1 | 124.7 | 122.7 | 117.8 |
| 5°    | 195.2 | 193.4 | 193.4 | 188.8 | 187.3 | 184.1 | 178.6 | 171.8 | 166.1 | 158.4 | 150.1 |
| 7.5°  | 238.1 | 237.8 | 237.8 | 233.8 | 230.0 | 225.5 | 218.1 | 210.4 | 201.3 | 189.4 | 177.3 |
| 10°   | 272.0 | 272.5 | 270.8 | 267.3 | 261.8 | 256.9 | 248.2 | 238.7 | 227.6 | 215.1 | 199.0 |
| 12.5° | 314.7 | 310.5 | 309.2 | 301.1 | 294.1 | 284.6 | 274.2 | 263.5 | 249.7 | 234.0 | 215.8 |
| 15°   | 367.6 | 362.3 | 357.0 | 346.3 | 334.5 | 320.0 | 303.7 | 287.9 | 270.1 | 251.0 | 228.3 |
| 17.5° | 414.9 | 414.9 | 407.9 | 390.9 | 375.7 | 354.2 | 332.3 | 311.1 | 290.1 | 265.0 | 236.6 |
| 20°   | 447.2 | 445.5 | 440.2 | 427.7 | 410.5 | 386.1 | 357.6 | 327.9 | 302.6 | 274.2 | 241.4 |
| 22.5° | 457.8 | 457.4 | 457.6 | 450.2 | 436.4 | 411.1 | 376.1 | 341.2 | 309.4 | 276.5 | 239.1 |
| 25°   | 461.6 | 462.3 | 464.2 | 461.4 | 451.0 | 425.6 | 387.5 | 347.4 | 311.5 | 273.9 | 230.4 |
| 27.5° | 477.2 | 475.7 | 477.8 | 475.9 | 464.2 | 434.0 | 389.7 | 345.9 | 306.9 | 264.2 | 214.9 |
| 30°   | 489.5 | 489.1 | 492.7 | 491.0 | 475.7 | 439.2 | 387.7 | 340.2 | 295.8 | 244.4 | 190.5 |
| 32.5° | 496.5 | 496.7 | 497.7 | 490.7 | 468.0 | 427.7 | 377.4 | 328.7 | 274.8 | 218.5 | 158.8 |
| 35°   | 498.8 | 497.7 | 492.4 | 475.2 | 444.2 | 401.1 | 352.3 | 301.3 | 246.3 | 184.3 | 125.5 |
| 37.5° | 489.0 | 483.1 | 469.5 | 443.8 | 407.9 | 367.6 | 320.2 | 266.7 | 207.2 | 145.5 | 93.6  |
| 40°   | 451.3 | 443.6 | 426.4 | 400.1 | 366.7 | 327.7 | 279.2 | 223.2 | 160.7 | 106.8 | 65.8  |
| 42.5° | 395.0 | 391.1 | 373.1 | 350.2 | 321.9 | 282.6 | 232.5 | 175.8 | 118.9 | 73.7  | 42.0  |
| 45°   | 327.2 | 322.1 | 310.7 | 290.5 | 268.2 | 227.0 | 180.3 | 125.9 | 81.1  | 46.5  | 20.8  |
| 47.5° | 245.3 | 245.7 | 238.0 | 222.6 | 200.7 | 166.3 | 123.4 | 84.5  | 50.8  | 24.0  | 4.7   |
| 50°   | 191.1 | 188.4 | 177.5 | 161.8 | 136.3 | 110.8 | 79.8  | 53.3  | 26.8  | 4.9   | 0.4   |
| 52.5° | 105.8 | 107.5 | 101.7 | 96.6  | 83.4  | 66.2  | 47.1  | 27.0  | 5.7   | 0.6   | 0.4   |
| 55°   | 25.9  | 27.4  | 26.3  | 26.8  | 27.8  | 24.8  | 19.1  | 5.3   | 0.6   | 0.4   | 0.4   |
| 57.5° | 0.6   | 0.6   | 0.6   | 0.6   | 0.9   | 1.3   | 1.3   | 0.4   | 0.4   | 0.4   | 0.4   |
| 60°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 62.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 65°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 67.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 70°   | 0.4   | 0.4   | 0.4   | 0.2   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 72.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   | 0.4   | 0.4   |
| 75°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   | 0.4   | 0.4   |
| 77.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   | 0.4   |
| 80°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   | 0.4   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   |
| 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°    | 86.0  | 86.0  | 86.0  | 86.0 | 86.0   | 86.0 | 86.0   | 86.0 |
| 2.5°  | 115.3 | 111.7 | 105.1 | 85.4 | 68.6   | 55.4 | 47.4   | 46.7 |
| 5°    | 142.7 | 133.1 | 119.1 | 80.1 | 50.7   | 32.1 | 23.2   | 21.9 |
| 7.5°  | 164.4 | 150.8 | 129.3 | 71.4 | 34.6   | 16.4 | 9.1    | 7.6  |
| 10°   | 182.4 | 163.1 | 134.6 | 61.2 | 21.7   | 7.0  | 3.8    | 3.2  |
| 12.5° | 194.7 | 171.4 | 135.5 | 49.9 | 12.5   | 3.4  | 2.5    | 2.3  |
| 15°   | 202.6 | 174.1 | 131.0 | 38.4 | 7.0    | 2.3  | 2.1    | 1.9  |
| 17.5° | 205.8 | 171.8 | 122.3 | 27.8 | 3.8    | 1.7  | 1.7    | 1.7  |
| 20°   | 204.3 | 164.4 | 109.4 | 19.5 | 2.5    | 1.5  | 1.5    | 1.5  |
| 22.5° | 197.1 | 151.8 | 93.4  | 13.0 | 1.7    | 1.3  | 1.3    | 1.3  |
| 25°   | 183.0 | 134.6 | 76.4  | 8.7  | 1.1    | 1.1  | 1.3    | 1.3  |
| 27.5° | 161.8 | 113.4 | 58.4  | 5.9  | 0.9    | 1.1  | 1.3    | 1.3  |
| 30°   | 135.1 | 89.8  | 42.0  | 3.8  | 0.9    | 1.1  | 1.1    | 1.3  |
| 32.5° | 107.4 | 65.4  | 27.6  | 2.3  | 0.8    | 1.1  | 1.3    | 1.5  |
| 35°   | 77.9  | 44.6  | 17.6  | 1.1  | 0.9    | 1.1  | 1.3    | 1.5  |
| 37.5° | 54.6  | 29.1  | 10.2  | 0.8  | 0.9    | 1.1  | 1.5    | 1.5  |
| 40°   | 35.5  | 16.3  | 3.8   | 0.6  | 0.9    | 1.3  | 1.5    | 1.7  |
| 42.5° | 18.5  | 5.7   | 0.8   | 0.6  | 0.9    | 1.3  | 1.7    | 1.9  |
| 45°   | 4.7   | 0.8   | 0.2   | 0.6  | 1.1    | 1.5  | 1.9    | 1.9  |
| 47.5° | 0.6   | 0.2   | 0.2   | 0.8  | 1.1    | 1.7  | 1.9    | 2.1  |
| 50°   | 0.2   | 0.4   | 0.4   | 0.8  | 1.1    | 1.7  | 2.1    | 2.3  |
| 52.5° | 0.4   | 0.4   | 0.4   | 0.8  | 1.3    | 1.7  | 2.3    | 2.5  |
| 55°   | 0.4   | 0.4   | 0.4   | 0.8  | 1.3    | 1.9  | 2.3    | 2.5  |
| 57.5° | 0.4   | 0.4   | 0.4   | 0.8  | 1.3    | 1.9  | 2.3    | 2.3  |
| 60°   | 0.4   | 0.4   | 0.4   | 0.8  | 1.3    | 1.9  | 2.3    | 2.3  |
| 62.5° | 0.4   | 0.4   | 0.6   | 0.8  | 1.3    | 1.7  | 2.3    | 2.3  |
| 65°   | 0.4   | 0.6   | 0.6   | 0.8  | 1.3    | 1.7  | 2.1    | 2.3  |
| 67.5° | 0.4   | 0.4   | 0.6   | 0.8  | 1.3    | 1.7  | 2.1    | 2.3  |
| 70°   | 0.4   | 0.4   | 0.6   | 0.8  | 1.1    | 1.5  | 1.9    | 2.1  |
| 72.5° | 0.4   | 0.4   | 0.6   | 0.8  | 1.1    | 1.5  | 1.7    | 1.9  |
| 75°   | 0.4   | 0.4   | 0.6   | 0.8  | 0.9    | 1.3  | 1.7    | 1.7  |
| 77.5° | 0.4   | 0.4   | 0.6   | 0.6  | 0.9    | 1.1  | 1.5    | 1.5  |
| 80°   | 0.4   | 0.4   | 0.6   | 0.6  | 0.8    | 0.9  | 1.1    | 1.3  |
| 82.5° | 0.4   | 0.4   | 0.4   | 0.6  | 0.6    | 0.8  | 0.9    | 0.9  |
| 85°   | 0.4   | 0.4   | 0.4   | 0.4  | 0.4    | 0.6  | 0.6    | 0.6  |
| 87.5° | 0.2   | 0.4   | 0.4   | 0.4  | 0.4    | 0.4  | 0.4    | 0.2  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)