

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: P1336117

Luminaire Tested: P3A02R459740DE010 E3CA301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1336117  
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: P3A02R459740DE010 E3CA301MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 97CRI , E3CA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

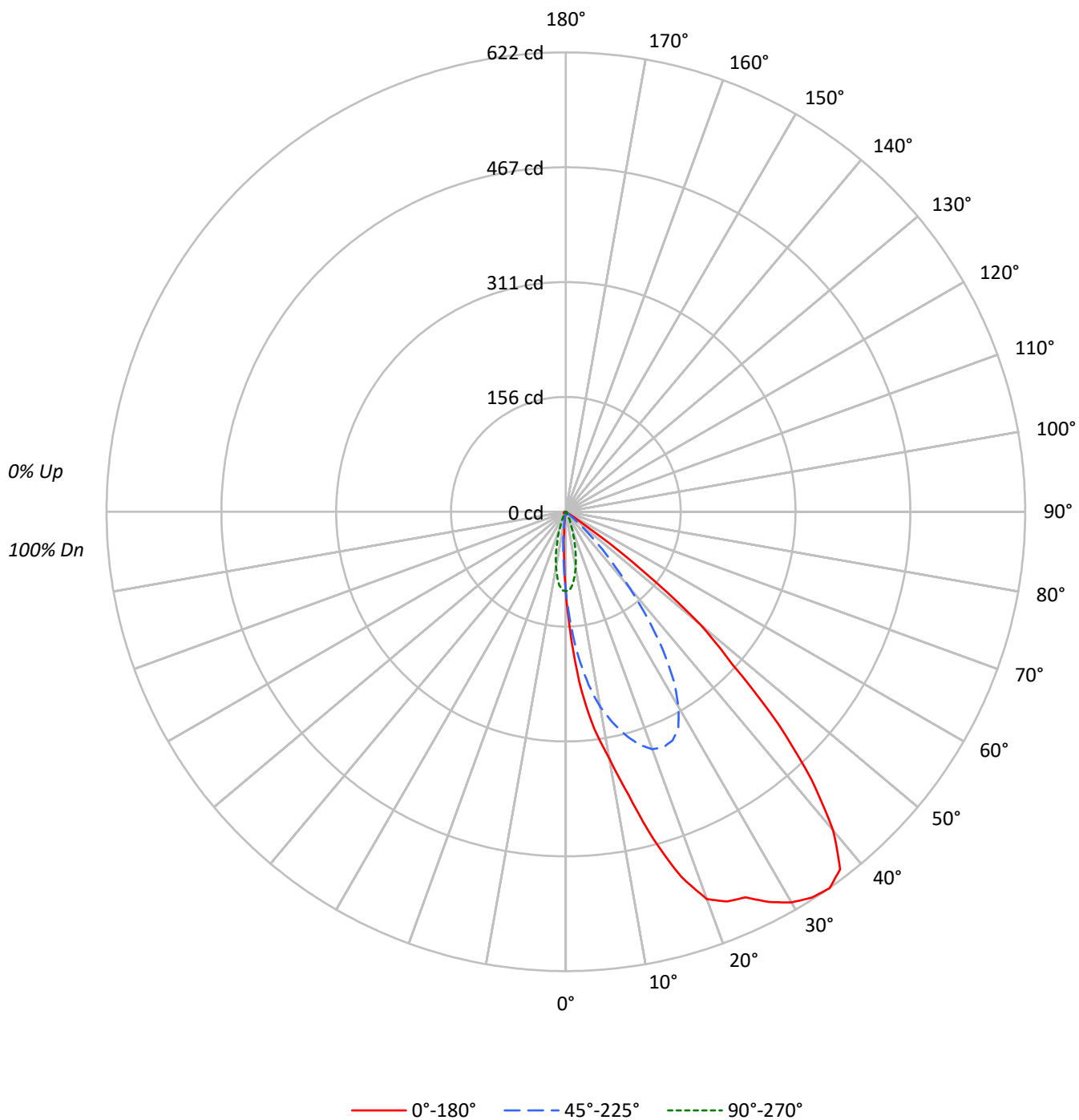
Lumens per Lamp: N/A  
Luminaire Lumens: 282.0 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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

TEST NUMBER: P1336117

CATALOG NUMBER: P3A02R459740DE010 E3CA301MW

### 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  | 93  | 90  | 95  | 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  | 43  | 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°  | 23529  | 23529 | 23529 | 23529 | 23529 |
| 5°  | 53621  | 43495 | 22012 | 8827  | 6031  |
| 10° | 75572  | 59763 | 17011 | 1937  | 891   |
| 15° | 104132 | 71101 | 10874 | 636   | 545   |
| 20° | 130211 | 79854 | 5670  | 443   | 443   |
| 25° | 139339 | 82674 | 2613  | 339   | 411   |
| 30° | 154657 | 77202 | 1190  | 354   | 430   |
| 35° | 166612 | 61542 | 375   | 375   | 509   |
| 40° | 161216 | 38129 | 200   | 487   | 601   |
| 45° | 126587 | 17986 | 217   | 589   | 744   |
| 50° | 81328  | 2081  | 307   | 716   | 955   |
| 55° | 12348  | 191   | 344   | 918   | 1185  |
| 60° | 219    | 219   | 395   | 1053  | 1228  |
| 65° | 259    | 259   | 467   | 1090  | 1453  |
| 70° | 321    | 321   | 577   | 1218  | 1667  |
| 75° | 169    | 424   | 763   | 1440  | 1779  |
| 80° | 253    | 631   | 884   | 1515  | 2147  |
| 85° | 0      | 503   | 1258  | 1761  | 1761  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 126587 cd/sqm

TEST NUMBER: P1336117

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 11.7   | 4.2       |
| 10°-20°   | 42.5   | 15.1      |
| 20°-30°   | 74.6   | 26.5      |
| 30°-40°   | 84.7   | 30.0      |
| 40°-50°   | 54.8   | 19.4      |
| 50°-60°   | 10.8   | 3.8       |
| 60°-70°   | 1.3    | 0.5       |
| 70°-80°   | 1.1    | 0.4       |
| 80°-90°   | 0.5    | 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°    | 128.8  | 45.7      |
| 0°-40°    | 213.5  | 75.7      |
| 0°-60°    | 279.1  | 99.0      |
| 0°-90°    | 282.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 282.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 107 | 107 | 107 | 107  | 107  |      |
| 5°  | 244 | 198 | 100 | 40   | 27   | 26   |
| 15° | 459 | 313 | 48  | 3    | 2    | 132  |
| 25° | 576 | 342 | 11  | 1    | 2    | 270  |
| 35° | 622 | 230 | 1   | 1    | 2    | 383  |
| 45° | 408 | 58  | 1   | 2    | 2    | 308  |
| 55° | 32  | 0   | 1   | 2    | 3    | 62   |
| 65° | 0   | 0   | 1   | 2    | 3    | 0    |
| 75° | 0   | 0   | 1   | 2    | 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°    | 107.3 | 107.3 | 107.3 | 107.3 | 107.3 | 107.3 | 107.3 | 107.3 | 107.3 | 107.3 | 107.3 |
| 2.5°  | 174.3 | 173.8 | 174.5 | 169.8 | 169.6 | 166.0 | 165.1 | 161.1 | 155.7 | 153.1 | 146.9 |
| 5°    | 243.6 | 241.3 | 241.3 | 235.6 | 233.7 | 229.7 | 222.9 | 214.4 | 207.3 | 197.6 | 187.3 |
| 7.5°  | 297.2 | 296.7 | 296.7 | 291.7 | 287.0 | 281.4 | 272.2 | 262.5 | 251.2 | 236.3 | 221.2 |
| 10°   | 339.4 | 340.1 | 338.0 | 333.5 | 326.6 | 320.5 | 309.7 | 297.9 | 283.9 | 268.4 | 248.3 |
| 12.5° | 392.7 | 387.5 | 385.8 | 375.7 | 367.0 | 355.2 | 342.2 | 328.8 | 311.5 | 292.0 | 269.3 |
| 15°   | 458.7 | 452.1 | 445.5 | 432.1 | 417.4 | 399.3 | 379.0 | 359.2 | 337.0 | 313.2 | 284.9 |
| 17.5° | 517.7 | 517.7 | 508.9 | 487.7 | 468.8 | 442.0 | 414.6 | 388.2 | 362.0 | 330.6 | 295.3 |
| 20°   | 558.0 | 555.9 | 549.3 | 533.7 | 512.2 | 481.8 | 446.2 | 409.2 | 377.6 | 342.2 | 301.2 |
| 22.5° | 571.2 | 570.7 | 571.0 | 561.8 | 544.6 | 512.9 | 469.3 | 425.7 | 386.1 | 345.0 | 298.3 |
| 25°   | 575.9 | 576.9 | 579.2 | 575.7 | 562.7 | 531.1 | 483.5 | 433.5 | 388.7 | 341.7 | 287.5 |
| 27.5° | 595.5 | 593.6 | 596.2 | 593.8 | 579.2 | 541.5 | 486.3 | 431.6 | 383.0 | 329.7 | 268.1 |
| 30°   | 610.8 | 610.4 | 614.8 | 612.7 | 593.6 | 548.1 | 483.7 | 424.5 | 369.1 | 304.9 | 237.7 |
| 32.5° | 619.5 | 619.8 | 621.0 | 612.2 | 583.9 | 533.7 | 471.0 | 410.1 | 342.9 | 272.6 | 198.1 |
| 35°   | 622.4 | 621.0 | 614.4 | 592.9 | 554.2 | 500.4 | 439.6 | 375.9 | 307.3 | 229.9 | 156.6 |
| 37.5° | 610.1 | 602.8 | 585.8 | 553.7 | 508.9 | 458.7 | 399.5 | 332.8 | 258.5 | 181.6 | 116.7 |
| 40°   | 563.2 | 553.5 | 532.1 | 499.3 | 457.5 | 408.9 | 348.3 | 278.5 | 200.5 | 133.2 | 82.1  |
| 42.5° | 492.9 | 488.0 | 465.5 | 437.0 | 401.6 | 352.6 | 290.1 | 219.3 | 148.3 | 92.0  | 52.4  |
| 45°   | 408.2 | 401.9 | 387.7 | 362.5 | 334.7 | 283.2 | 225.0 | 157.1 | 101.2 | 58.0  | 25.9  |
| 47.5° | 306.1 | 306.6 | 296.9 | 277.8 | 250.5 | 207.5 | 154.0 | 105.4 | 63.4  | 30.0  | 5.9   |
| 50°   | 238.4 | 235.1 | 221.5 | 201.9 | 170.0 | 138.2 | 99.5  | 66.5  | 33.5  | 6.1   | 0.5   |
| 52.5° | 132.1 | 134.2 | 126.9 | 120.5 | 104.0 | 82.5  | 58.7  | 33.7  | 7.1   | 0.7   | 0.5   |
| 55°   | 32.3  | 34.2  | 32.8  | 33.5  | 34.7  | 30.9  | 23.8  | 6.6   | 0.7   | 0.5   | 0.5   |
| 57.5° | 0.7   | 0.7   | 0.7   | 0.7   | 1.2   | 1.7   | 1.7   | 0.5   | 0.5   | 0.5   | 0.5   |
| 60°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 62.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 65°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 67.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 70°   | 0.5   | 0.5   | 0.5   | 0.2   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 72.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.5   | 0.5   | 0.5   |
| 75°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.5   | 0.5   | 0.5   |
| 77.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.5   | 0.5   |
| 80°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.5   | 0.5   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.5   |
| 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°    | 107.3 | 107.3 | 107.3 | 107.3 | 107.3  | 107.3 | 107.3  | 107.3 |
| 2.5°  | 143.9 | 139.4 | 131.1 | 106.6 | 85.6   | 69.1  | 59.2   | 58.3  |
| 5°    | 178.1 | 166.0 | 148.6 | 100.0 | 63.2   | 40.1  | 29.0   | 27.4  |
| 7.5°  | 205.2 | 188.2 | 161.3 | 89.1  | 43.2   | 20.5  | 11.3   | 9.4   |
| 10°   | 227.6 | 203.5 | 167.9 | 76.4  | 27.1   | 8.7   | 4.7    | 4.0   |
| 12.5° | 242.9 | 213.9 | 169.1 | 62.3  | 15.6   | 4.2   | 3.1    | 2.8   |
| 15°   | 252.8 | 217.2 | 163.4 | 47.9  | 8.7    | 2.8   | 2.6    | 2.4   |
| 17.5° | 256.8 | 214.4 | 152.6 | 34.7  | 4.7    | 2.1   | 2.1    | 2.1   |
| 20°   | 254.9 | 205.2 | 136.6 | 24.3  | 3.1    | 1.9   | 1.9    | 1.9   |
| 22.5° | 246.0 | 189.4 | 116.5 | 16.3  | 2.1    | 1.7   | 1.7    | 1.7   |
| 25°   | 228.3 | 167.9 | 95.3  | 10.8  | 1.4    | 1.4   | 1.7    | 1.7   |
| 27.5° | 201.9 | 141.5 | 72.9  | 7.3   | 1.2    | 1.4   | 1.7    | 1.7   |
| 30°   | 168.6 | 112.0 | 52.4  | 4.7   | 1.2    | 1.4   | 1.4    | 1.7   |
| 32.5° | 134.0 | 81.6  | 34.4  | 2.8   | 0.9    | 1.4   | 1.7    | 1.9   |
| 35°   | 97.2  | 55.7  | 21.9  | 1.4   | 1.2    | 1.4   | 1.7    | 1.9   |
| 37.5° | 68.2  | 36.3  | 12.7  | 0.9   | 1.2    | 1.4   | 1.9    | 1.9   |
| 40°   | 44.3  | 20.3  | 4.7   | 0.7   | 1.2    | 1.7   | 1.9    | 2.1   |
| 42.5° | 23.1  | 7.1   | 0.9   | 0.7   | 1.2    | 1.7   | 2.1    | 2.4   |
| 45°   | 5.9   | 0.9   | 0.2   | 0.7   | 1.4    | 1.9   | 2.4    | 2.4   |
| 47.5° | 0.7   | 0.2   | 0.2   | 0.9   | 1.4    | 2.1   | 2.4    | 2.6   |
| 50°   | 0.2   | 0.5   | 0.5   | 0.9   | 1.4    | 2.1   | 2.6    | 2.8   |
| 52.5° | 0.5   | 0.5   | 0.5   | 0.9   | 1.7    | 2.1   | 2.8    | 3.1   |
| 55°   | 0.5   | 0.5   | 0.5   | 0.9   | 1.7    | 2.4   | 2.8    | 3.1   |
| 57.5° | 0.5   | 0.5   | 0.5   | 0.9   | 1.7    | 2.4   | 2.8    | 2.8   |
| 60°   | 0.5   | 0.5   | 0.5   | 0.9   | 1.7    | 2.4   | 2.8    | 2.8   |
| 62.5° | 0.5   | 0.5   | 0.7   | 0.9   | 1.7    | 2.1   | 2.8    | 2.8   |
| 65°   | 0.5   | 0.7   | 0.7   | 0.9   | 1.7    | 2.1   | 2.6    | 2.8   |
| 67.5° | 0.5   | 0.5   | 0.7   | 0.9   | 1.7    | 2.1   | 2.6    | 2.8   |
| 70°   | 0.5   | 0.5   | 0.7   | 0.9   | 1.4    | 1.9   | 2.4    | 2.6   |
| 72.5° | 0.5   | 0.5   | 0.7   | 0.9   | 1.4    | 1.9   | 2.1    | 2.4   |
| 75°   | 0.5   | 0.5   | 0.7   | 0.9   | 1.2    | 1.7   | 2.1    | 2.1   |
| 77.5° | 0.5   | 0.5   | 0.7   | 0.7   | 1.2    | 1.4   | 1.9    | 1.9   |
| 80°   | 0.5   | 0.5   | 0.7   | 0.7   | 0.9    | 1.2   | 1.4    | 1.7   |
| 82.5° | 0.5   | 0.5   | 0.5   | 0.7   | 0.7    | 0.9   | 1.2    | 1.2   |
| 85°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5    | 0.7   | 0.7    | 0.7   |
| 87.5° | 0.2   | 0.5   | 0.5   | 0.5   | 0.5    | 0.5   | 0.5    | 0.2   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)