

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: P1336085

Luminaire Tested: P3A02R459730DE010 E3CA301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1336085  
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: P3A02R459730DE010 E3CA301MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 97CRI , E3CA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

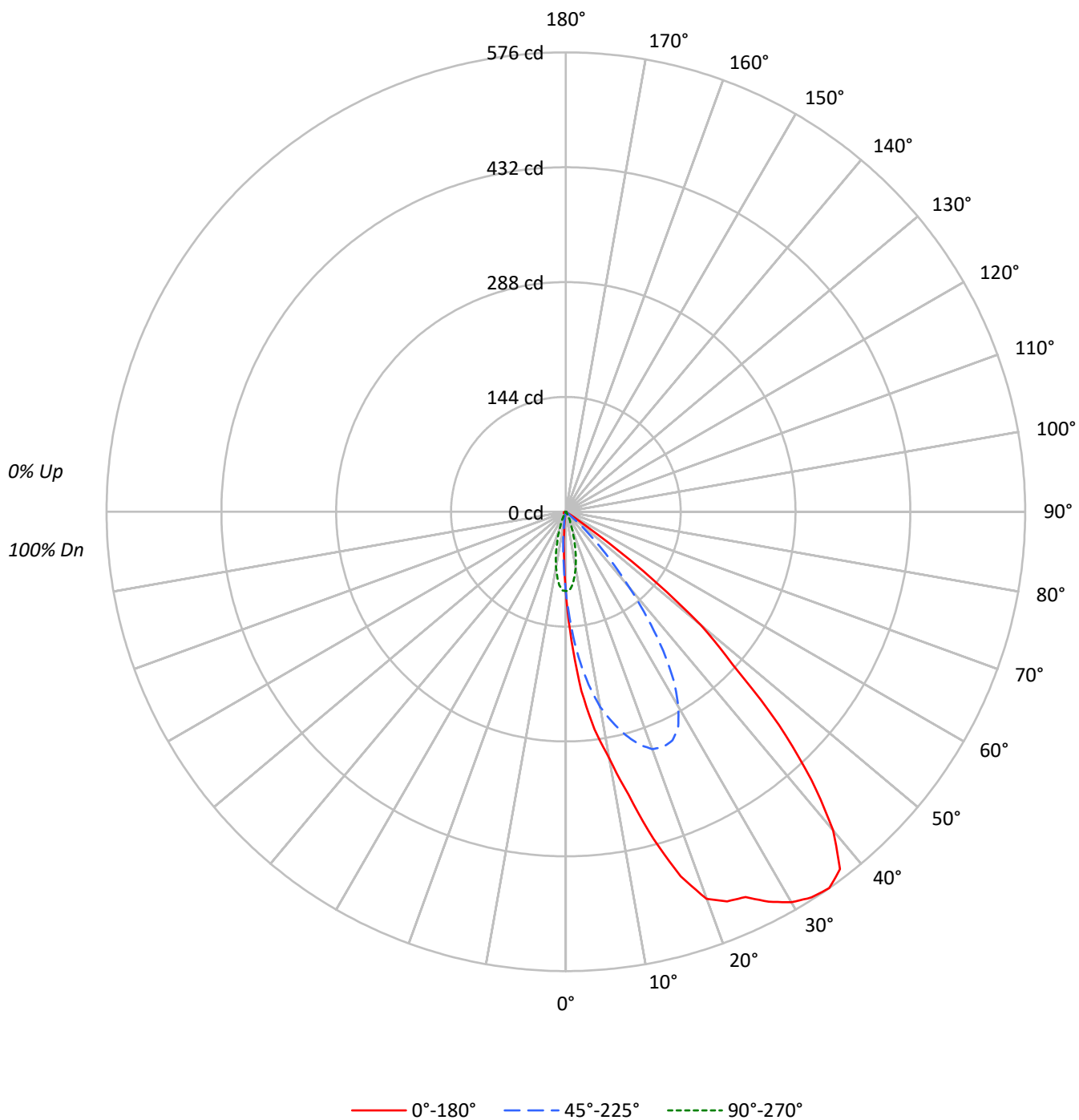
Lumens per Lamp: N/A  
Luminaire Lumens: 261.0 lumens  
Efficiency: N/A  
Efficacy: 72.5 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P1336085

CATALOG NUMBER: P3A02R459730DE010 E3CA301MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1336085

CATALOG NUMBER: P3A02R459730DE010 E3CA301MW

**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°  | 21775  | 21775 | 21775 | 21775 | 21775 |
| 5°  | 49637  | 40260 | 20361 | 8166  | 5569  |
| 10° | 69939  | 55310 | 15742 | 1804  | 824   |
| 15° | 96368  | 65812 | 10057 | 590   | 499   |
| 20° | 120504 | 73903 | 5250  | 397   | 397   |
| 25° | 128959 | 76529 | 2419  | 315   | 363   |
| 30° | 143136 | 71454 | 1114  | 329   | 380   |
| 35° | 154191 | 56965 | 348   | 348   | 455   |
| 40° | 149194 | 35295 | 200   | 429   | 573   |
| 45° | 117159 | 16653 | 217   | 527   | 682   |
| 50° | 75290  | 1944  | 307   | 682   | 887   |
| 55° | 11431  | 153   | 344   | 841   | 1070  |
| 60° | 175    | 175   | 395   | 965   | 1140  |
| 65° | 208    | 208   | 467   | 1038  | 1349  |
| 70° | 256    | 256   | 577   | 1090  | 1539  |
| 75° | 169    | 339   | 763   | 1271  | 1694  |
| 80° | 253    | 505   | 884   | 1389  | 1894  |
| 85° | 0      | 503   | 1006  | 1761  | 1761  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 117159 cd/sqm

TEST NUMBER: P1336085

CATALOG NUMBER: P3A02R459730DE010 E3CA301MW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 10.9   | 4.2       |
| 10°-20°   | 39.3   | 15.1      |
| 20°-30°   | 69.0   | 26.5      |
| 30°-40°   | 78.4   | 30.0      |
| 40°-50°   | 50.8   | 19.5      |
| 50°-60°   | 10.0   | 3.8       |
| 60°-70°   | 1.2    | 0.5       |
| 70°-80°   | 1.0    | 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°    | 119.2  | 45.7      |
| 0°-40°    | 197.6  | 75.7      |
| 0°-60°    | 258.3  | 99.0      |
| 0°-90°    | 261.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 261.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 99  | 99  | 99  | 99   | 99   |      |
| 5°  | 226 | 183 | 92  | 37   | 25   | 24   |
| 15° | 424 | 290 | 44  | 3    | 2    | 122  |
| 25° | 533 | 316 | 10  | 1    | 2    | 250  |
| 35° | 576 | 213 | 1   | 1    | 2    | 354  |
| 45° | 378 | 54  | 1   | 2    | 2    | 285  |
| 55° | 30  | 0   | 1   | 2    | 3    | 57   |
| 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    |      |

TEST NUMBER: P1336085

CATALOG NUMBER: P3A02R459730DE010 E3CA301MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  |
| 2.5°  | 161.3 | 160.9 | 161.5 | 157.2 | 156.9 | 153.7 | 152.8 | 149.1 | 144.1 | 141.7 | 136.0 |
| 5°    | 225.5 | 223.3 | 223.3 | 218.1 | 216.3 | 212.6 | 206.3 | 198.4 | 191.9 | 182.9 | 173.3 |
| 7.5°  | 275.0 | 274.6 | 274.6 | 270.0 | 265.6 | 260.4 | 251.9 | 242.9 | 232.5 | 218.7 | 204.7 |
| 10°   | 314.1 | 314.8 | 312.8 | 308.6 | 302.3 | 296.6 | 286.6 | 275.7 | 262.8 | 248.4 | 229.8 |
| 12.5° | 363.4 | 358.6 | 357.1 | 347.7 | 339.6 | 328.7 | 316.7 | 304.3 | 288.3 | 270.2 | 249.3 |
| 15°   | 424.5 | 418.4 | 412.3 | 399.9 | 386.3 | 369.5 | 350.8 | 332.4 | 311.9 | 289.9 | 263.7 |
| 17.5° | 479.1 | 479.1 | 471.0 | 451.4 | 433.9 | 409.0 | 383.7 | 359.3 | 335.1 | 306.0 | 273.3 |
| 20°   | 516.4 | 514.5 | 508.4 | 494.0 | 474.1 | 445.9 | 413.0 | 378.7 | 349.5 | 316.7 | 278.7 |
| 22.5° | 528.7 | 528.2 | 528.4 | 519.9 | 504.0 | 474.8 | 434.4 | 394.0 | 357.3 | 319.3 | 276.1 |
| 25°   | 533.0 | 533.9 | 536.1 | 532.8 | 520.8 | 491.6 | 447.5 | 401.2 | 359.7 | 316.3 | 266.1 |
| 27.5° | 551.1 | 549.4 | 551.8 | 549.6 | 536.1 | 501.2 | 450.1 | 399.4 | 354.5 | 305.2 | 248.2 |
| 30°   | 565.3 | 564.9 | 569.0 | 567.1 | 549.4 | 507.3 | 447.7 | 392.9 | 341.6 | 282.2 | 220.0 |
| 32.5° | 573.4 | 573.6 | 574.7 | 566.6 | 540.5 | 494.0 | 435.9 | 379.6 | 317.4 | 252.3 | 183.4 |
| 35°   | 576.0 | 574.7 | 568.6 | 548.7 | 512.9 | 463.2 | 406.9 | 347.9 | 284.4 | 212.8 | 144.9 |
| 37.5° | 564.7 | 557.9 | 542.2 | 512.5 | 471.0 | 424.5 | 369.8 | 308.0 | 239.2 | 168.1 | 108.0 |
| 40°   | 521.2 | 512.3 | 492.4 | 462.1 | 423.5 | 378.5 | 322.4 | 257.8 | 185.5 | 123.3 | 76.0  |
| 42.5° | 456.2 | 451.6 | 430.9 | 404.5 | 371.7 | 326.3 | 268.5 | 203.0 | 137.3 | 85.1  | 48.5  |
| 45°   | 377.8 | 371.9 | 358.8 | 335.5 | 309.7 | 262.1 | 208.2 | 145.4 | 93.6  | 53.7  | 24.0  |
| 47.5° | 283.3 | 283.8 | 274.8 | 257.1 | 231.8 | 192.1 | 142.5 | 97.6  | 58.7  | 27.7  | 5.5   |
| 50°   | 220.7 | 217.6 | 205.0 | 186.8 | 157.4 | 127.9 | 92.1  | 61.6  | 31.0  | 5.7   | 0.4   |
| 52.5° | 122.2 | 124.2 | 117.4 | 111.5 | 96.3  | 76.4  | 54.4  | 31.2  | 6.5   | 0.7   | 0.4   |
| 55°   | 29.9  | 31.7  | 30.3  | 31.0  | 32.1  | 28.6  | 22.0  | 6.1   | 0.7   | 0.4   | 0.4   |
| 57.5° | 0.7   | 0.7   | 0.7   | 0.7   | 1.1   | 1.5   | 1.5   | 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   |

TEST NUMBER: P1336085

CATALOG NUMBER: P3A02R459730DE010 E3CA301MW

**CANDELA DISTRIBUTION (continued):**

|       | 55°   | 60°   | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-------|-------|------|--------|------|--------|------|
| 0°    | 99.3  | 99.3  | 99.3  | 99.3 | 99.3   | 99.3 | 99.3   | 99.3 |
| 2.5°  | 133.1 | 129.0 | 121.4 | 98.7 | 79.2   | 64.0 | 54.8   | 53.9 |
| 5°    | 164.8 | 153.7 | 137.5 | 92.5 | 58.5   | 37.1 | 26.8   | 25.3 |
| 7.5°  | 189.9 | 174.2 | 149.3 | 82.5 | 39.9   | 19.0 | 10.5   | 8.7  |
| 10°   | 210.6 | 188.4 | 155.4 | 70.7 | 25.1   | 8.1  | 4.4    | 3.7  |
| 12.5° | 224.8 | 198.0 | 156.5 | 57.6 | 14.4   | 3.9  | 2.8    | 2.6  |
| 15°   | 234.0 | 201.0 | 151.3 | 44.3 | 8.1    | 2.6  | 2.4    | 2.2  |
| 17.5° | 237.7 | 198.4 | 141.2 | 32.1 | 4.4    | 2.0  | 2.0    | 2.0  |
| 20°   | 236.0 | 189.9 | 126.4 | 22.5 | 2.8    | 1.7  | 1.7    | 1.7  |
| 22.5° | 227.7 | 175.3 | 107.8 | 15.1 | 2.0    | 1.5  | 1.5    | 1.5  |
| 25°   | 211.3 | 155.4 | 88.2  | 10.0 | 1.3    | 1.3  | 1.5    | 1.5  |
| 27.5° | 186.8 | 131.0 | 67.4  | 6.8  | 1.1    | 1.3  | 1.5    | 1.5  |
| 30°   | 156.1 | 103.7 | 48.5  | 4.4  | 1.1    | 1.3  | 1.3    | 1.5  |
| 32.5° | 124.0 | 75.5  | 31.9  | 2.6  | 0.9    | 1.3  | 1.5    | 1.7  |
| 35°   | 89.9  | 51.5  | 20.3  | 1.3  | 1.1    | 1.3  | 1.5    | 1.7  |
| 37.5° | 63.1  | 33.6  | 11.8  | 0.9  | 1.1    | 1.3  | 1.7    | 1.7  |
| 40°   | 41.0  | 18.8  | 4.4   | 0.7  | 1.1    | 1.5  | 1.7    | 2.0  |
| 42.5° | 21.4  | 6.5   | 0.9   | 0.7  | 1.1    | 1.5  | 2.0    | 2.2  |
| 45°   | 5.5   | 0.9   | 0.2   | 0.7  | 1.3    | 1.7  | 2.2    | 2.2  |
| 47.5° | 0.7   | 0.2   | 0.2   | 0.9  | 1.3    | 2.0  | 2.2    | 2.4  |
| 50°   | 0.2   | 0.4   | 0.4   | 0.9  | 1.3    | 2.0  | 2.4    | 2.6  |
| 52.5° | 0.4   | 0.4   | 0.4   | 0.9  | 1.5    | 2.0  | 2.6    | 2.8  |
| 55°   | 0.4   | 0.4   | 0.4   | 0.9  | 1.5    | 2.2  | 2.6    | 2.8  |
| 57.5° | 0.4   | 0.4   | 0.4   | 0.9  | 1.5    | 2.2  | 2.6    | 2.6  |
| 60°   | 0.4   | 0.4   | 0.4   | 0.9  | 1.5    | 2.2  | 2.6    | 2.6  |
| 62.5° | 0.4   | 0.4   | 0.7   | 0.9  | 1.5    | 2.0  | 2.6    | 2.6  |
| 65°   | 0.4   | 0.7   | 0.7   | 0.9  | 1.5    | 2.0  | 2.4    | 2.6  |
| 67.5° | 0.4   | 0.4   | 0.7   | 0.9  | 1.5    | 2.0  | 2.4    | 2.6  |
| 70°   | 0.4   | 0.4   | 0.7   | 0.9  | 1.3    | 1.7  | 2.2    | 2.4  |
| 72.5° | 0.4   | 0.4   | 0.7   | 0.9  | 1.3    | 1.7  | 2.0    | 2.2  |
| 75°   | 0.4   | 0.4   | 0.7   | 0.9  | 1.1    | 1.5  | 2.0    | 2.0  |
| 77.5° | 0.4   | 0.4   | 0.7   | 0.7  | 1.1    | 1.3  | 1.7    | 1.7  |
| 80°   | 0.4   | 0.4   | 0.7   | 0.7  | 0.9    | 1.1  | 1.3    | 1.5  |
| 82.5° | 0.4   | 0.4   | 0.4   | 0.7  | 0.7    | 0.9  | 1.1    | 1.1  |
| 85°   | 0.4   | 0.4   | 0.4   | 0.4  | 0.4    | 0.7  | 0.7    | 0.7  |
| 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)