

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: P1316719

Luminaire Tested: P3SQAS02R459830DE010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316719  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS02R459830DE010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 98CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

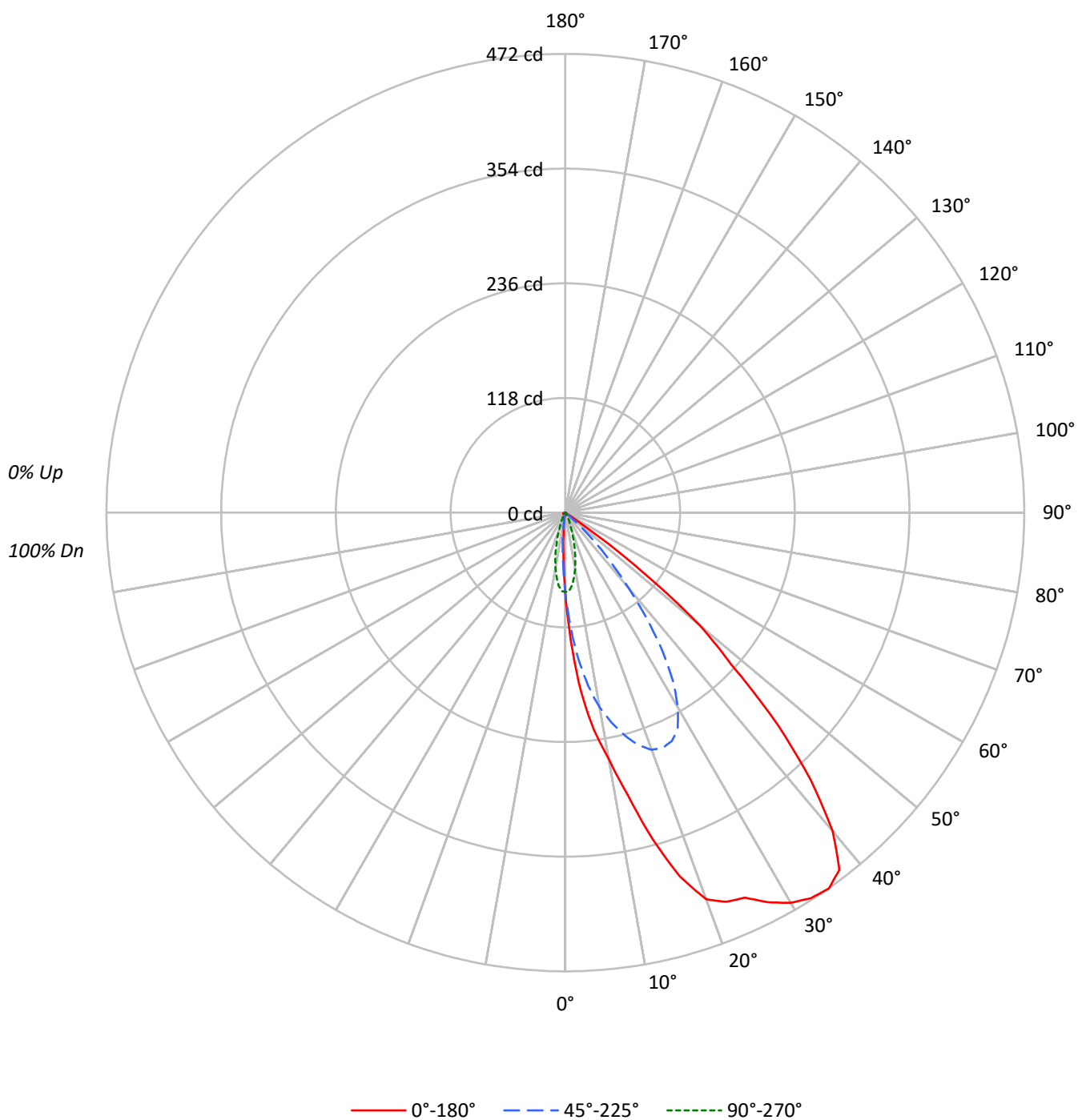
Lumens per Lamp: N/A  
Luminaire Lumens: 214.0 lumens  
Efficiency: N/A  
Efficacy: 59.5 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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: P1316719

CATALOG NUMBER: P3SQAS02R459830DE010 E3SQCA301MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1316719

CATALOG NUMBER: P3SQAS02R459830DE010 E3SQCA301MW

**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  | 94  | 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°  | 14019 | 14019 | 14019 | 14019 | 14019 |
| 5°  | 31966 | 25932 | 13122 | 5256  | 3596  |
| 10° | 45031 | 35623 | 10143 | 1154  | 525   |
| 15° | 62066 | 42381 | 6472  | 374   | 321   |
| 20° | 77599 | 47597 | 3372  | 257   | 257   |
| 25° | 83042 | 49274 | 1558  | 209   | 247   |
| 30° | 92174 | 46017 | 716   | 219   | 259   |
| 35° | 99299 | 36688 | 231   | 231   | 294   |
| 40° | 96088 | 22729 | 112   | 292   | 360   |
| 45° | 75455 | 10717 | 122   | 341   | 438   |
| 50° | 48469 | 1259  | 188   | 429   | 563   |
| 55° | 7356  | 120   | 210   | 540   | 691   |
| 60° | 138   | 138   | 241   | 620   | 723   |
| 65° | 163   | 163   | 285   | 652   | 856   |
| 70° | 201   | 201   | 352   | 705   | 1007  |
| 75° | 133   | 266   | 466   | 865   | 1065  |
| 80° | 198   | 397   | 496   | 893   | 1289  |
| 85° | 0     | 395   | 790   | 988   | 988   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 75455 cd/sqm

TEST NUMBER: P1316719

CATALOG NUMBER: P3SQAS02R459830DE010 E3SQCA301MW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 8.9    | 4.2       |
| 10°-20°   | 32.2   | 15.1      |
| 20°-30°   | 56.6   | 26.4      |
| 30°-40°   | 64.3   | 30.0      |
| 40°-50°   | 41.6   | 19.4      |
| 50°-60°   | 8.2    | 3.8       |
| 60°-70°   | 1.0    | 0.5       |
| 70°-80°   | 0.8    | 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       |
| 0°-30°    | 97.7   | 45.7      |
| 0°-40°    | 162.0  | 75.7      |
| 0°-60°    | 211.8  | 99.0      |
| 0°-90°    | 214.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 214.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 81  | 81  | 81  | 81   | 81   |      |
| 5°  | 185 | 150 | 76  | 30   | 21   | 20   |
| 15° | 348 | 238 | 36  | 2    | 2    | 100  |
| 25° | 437 | 259 | 8   | 1    | 1    | 205  |
| 35° | 472 | 174 | 1   | 1    | 1    | 290  |
| 45° | 310 | 44  | 0   | 1    | 2    | 233  |
| 55° | 24  | 0   | 1   | 2    | 2    | 47   |
| 65° | 0   | 0   | 1   | 2    | 2    | 0    |
| 75° | 0   | 0   | 1   | 1    | 2    | 0    |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1316719

CATALOG NUMBER: P3SQAS02R459830DE010 E3SQCA301MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 81.4  | 81.4  | 81.4  | 81.4  | 81.4  | 81.4  | 81.4  | 81.4  | 81.4  | 81.4  | 81.4  |
| 2.5°  | 132.3 | 131.9 | 132.4 | 128.9 | 128.7 | 126.0 | 125.3 | 122.2 | 118.1 | 116.2 | 111.5 |
| 5°    | 184.9 | 183.1 | 183.1 | 178.8 | 177.4 | 174.3 | 169.1 | 162.7 | 157.3 | 150.0 | 142.1 |
| 7.5°  | 225.5 | 225.1 | 225.1 | 221.4 | 217.8 | 213.5 | 206.5 | 199.2 | 190.6 | 179.3 | 167.9 |
| 10°   | 257.5 | 258.1 | 256.5 | 253.1 | 247.9 | 243.2 | 235.0 | 226.0 | 215.5 | 203.7 | 188.5 |
| 12.5° | 298.0 | 294.0 | 292.8 | 285.1 | 278.5 | 269.5 | 259.7 | 249.5 | 236.4 | 221.6 | 204.4 |
| 15°   | 348.1 | 343.1 | 338.1 | 327.9 | 316.8 | 303.0 | 287.6 | 272.6 | 255.7 | 237.7 | 216.2 |
| 17.5° | 392.8 | 392.8 | 386.2 | 370.1 | 355.8 | 335.4 | 314.6 | 294.6 | 274.7 | 250.9 | 224.1 |
| 20°   | 423.4 | 421.8 | 416.8 | 405.0 | 388.7 | 365.6 | 338.6 | 310.5 | 286.5 | 259.7 | 228.5 |
| 22.5° | 433.5 | 433.1 | 433.3 | 426.3 | 413.2 | 389.3 | 356.1 | 323.0 | 293.0 | 261.8 | 226.4 |
| 25°   | 437.0 | 437.8 | 439.5 | 436.9 | 427.0 | 403.0 | 366.9 | 328.9 | 294.9 | 259.3 | 218.2 |
| 27.5° | 451.9 | 450.5 | 452.4 | 450.6 | 439.5 | 410.9 | 369.0 | 327.5 | 290.6 | 250.2 | 203.5 |
| 30°   | 463.5 | 463.2 | 466.6 | 465.0 | 450.5 | 415.9 | 367.1 | 322.1 | 280.1 | 231.4 | 180.4 |
| 32.5° | 470.2 | 470.3 | 471.2 | 464.6 | 443.1 | 405.0 | 357.4 | 311.2 | 260.2 | 206.9 | 150.3 |
| 35°   | 472.3 | 471.2 | 466.2 | 449.9 | 420.6 | 379.8 | 333.6 | 285.3 | 233.2 | 174.5 | 118.8 |
| 37.5° | 463.0 | 457.4 | 444.6 | 420.2 | 386.2 | 348.1 | 303.2 | 252.5 | 196.2 | 137.8 | 88.6  |
| 40°   | 427.4 | 420.0 | 403.8 | 378.9 | 347.2 | 310.3 | 264.3 | 211.4 | 152.1 | 101.1 | 62.3  |
| 42.5° | 374.0 | 370.3 | 353.3 | 331.6 | 304.8 | 267.6 | 220.1 | 166.4 | 112.6 | 69.8  | 39.7  |
| 45°   | 309.8 | 305.0 | 294.2 | 275.1 | 254.0 | 214.9 | 170.7 | 119.2 | 76.8  | 44.0  | 19.7  |
| 47.5° | 232.3 | 232.7 | 225.3 | 210.8 | 190.1 | 157.5 | 116.9 | 80.0  | 48.1  | 22.7  | 4.5   |
| 50°   | 180.9 | 178.4 | 168.1 | 153.2 | 129.0 | 104.9 | 75.5  | 50.5  | 25.4  | 4.7   | 0.4   |
| 52.5° | 100.2 | 101.8 | 96.3  | 91.5  | 78.9  | 62.6  | 44.6  | 25.6  | 5.4   | 0.5   | 0.4   |
| 55°   | 24.5  | 26.0  | 24.9  | 25.4  | 26.3  | 23.4  | 18.1  | 5.0   | 0.5   | 0.4   | 0.4   |
| 57.5° | 0.5   | 0.5   | 0.5   | 0.5   | 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   |

TEST NUMBER: P1316719

CATALOG NUMBER: P3SQAS02R459830DE010 E3SQCA301MW

**CANDELA DISTRIBUTION (continued):**

|       | 55°   | 60°   | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-------|-------|------|--------|------|--------|------|
| 0°    | 81.4  | 81.4  | 81.4  | 81.4 | 81.4   | 81.4 | 81.4   | 81.4 |
| 2.5°  | 109.2 | 105.8 | 99.5  | 80.9 | 65.0   | 52.4 | 44.9   | 44.2 |
| 5°    | 135.1 | 126.0 | 112.8 | 75.9 | 48.0   | 30.4 | 22.0   | 20.8 |
| 7.5°  | 155.7 | 142.8 | 122.4 | 67.7 | 32.8   | 15.6 | 8.6    | 7.2  |
| 10°   | 172.7 | 154.5 | 127.4 | 58.0 | 20.6   | 6.6  | 3.6    | 3.0  |
| 12.5° | 184.3 | 162.3 | 128.3 | 47.2 | 11.8   | 3.2  | 2.3    | 2.1  |
| 15°   | 191.9 | 164.8 | 124.0 | 36.3 | 6.6    | 2.1  | 2.0    | 1.8  |
| 17.5° | 194.9 | 162.7 | 115.8 | 26.3 | 3.6    | 1.6  | 1.6    | 1.6  |
| 20°   | 193.5 | 155.7 | 103.6 | 18.4 | 2.3    | 1.4  | 1.4    | 1.4  |
| 22.5° | 186.7 | 143.7 | 88.4  | 12.3 | 1.6    | 1.3  | 1.3    | 1.3  |
| 25°   | 173.2 | 127.4 | 72.3  | 8.2  | 1.1    | 1.1  | 1.3    | 1.3  |
| 27.5° | 153.2 | 107.4 | 55.3  | 5.5  | 0.9    | 1.1  | 1.3    | 1.3  |
| 30°   | 128.0 | 85.0  | 39.7  | 3.6  | 0.9    | 1.1  | 1.1    | 1.3  |
| 32.5° | 101.7 | 61.9  | 26.1  | 2.1  | 0.7    | 1.1  | 1.3    | 1.4  |
| 35°   | 73.7  | 42.2  | 16.6  | 1.1  | 0.9    | 1.1  | 1.3    | 1.4  |
| 37.5° | 51.7  | 27.6  | 9.7   | 0.7  | 0.9    | 1.1  | 1.4    | 1.4  |
| 40°   | 33.6  | 15.4  | 3.6   | 0.5  | 0.9    | 1.3  | 1.4    | 1.6  |
| 42.5° | 17.5  | 5.4   | 0.7   | 0.5  | 0.9    | 1.3  | 1.6    | 1.8  |
| 45°   | 4.5   | 0.7   | 0.2   | 0.5  | 1.1    | 1.4  | 1.8    | 1.8  |
| 47.5° | 0.5   | 0.2   | 0.2   | 0.7  | 1.1    | 1.6  | 1.8    | 2.0  |
| 50°   | 0.2   | 0.4   | 0.4   | 0.7  | 1.1    | 1.6  | 2.0    | 2.1  |
| 52.5° | 0.4   | 0.4   | 0.4   | 0.7  | 1.3    | 1.6  | 2.1    | 2.3  |
| 55°   | 0.4   | 0.4   | 0.4   | 0.7  | 1.3    | 1.8  | 2.1    | 2.3  |
| 57.5° | 0.4   | 0.4   | 0.4   | 0.7  | 1.3    | 1.8  | 2.1    | 2.1  |
| 60°   | 0.4   | 0.4   | 0.4   | 0.7  | 1.3    | 1.8  | 2.1    | 2.1  |
| 62.5° | 0.4   | 0.4   | 0.5   | 0.7  | 1.3    | 1.6  | 2.1    | 2.1  |
| 65°   | 0.4   | 0.5   | 0.5   | 0.7  | 1.3    | 1.6  | 2.0    | 2.1  |
| 67.5° | 0.4   | 0.4   | 0.5   | 0.7  | 1.3    | 1.6  | 2.0    | 2.1  |
| 70°   | 0.4   | 0.4   | 0.5   | 0.7  | 1.1    | 1.4  | 1.8    | 2.0  |
| 72.5° | 0.4   | 0.4   | 0.5   | 0.7  | 1.1    | 1.4  | 1.6    | 1.8  |
| 75°   | 0.4   | 0.4   | 0.5   | 0.7  | 0.9    | 1.3  | 1.6    | 1.6  |
| 77.5° | 0.4   | 0.4   | 0.5   | 0.5  | 0.9    | 1.1  | 1.4    | 1.4  |
| 80°   | 0.4   | 0.4   | 0.5   | 0.5  | 0.7    | 0.9  | 1.1    | 1.3  |
| 82.5° | 0.4   | 0.4   | 0.4   | 0.5  | 0.5    | 0.7  | 0.9    | 0.9  |
| 85°   | 0.4   | 0.4   | 0.4   | 0.4  | 0.4    | 0.5  | 0.5    | 0.5  |
| 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)