

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: P1339491

Luminaire Tested: P3A05R459827DE010 E3A301GPH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1339491  
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: P3A05R459827DE010 E3A301GPH  
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 98CRI , E3A301GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

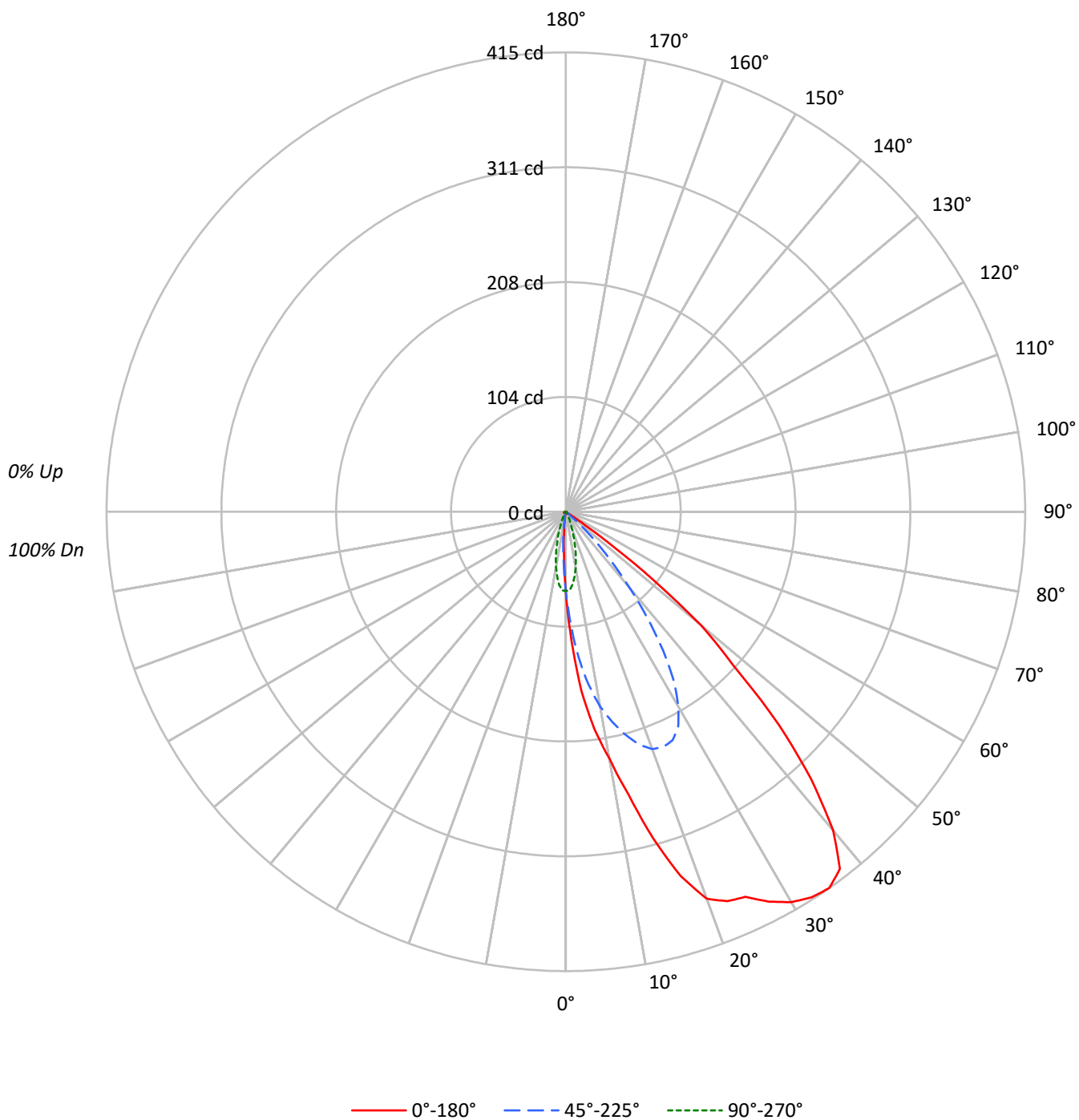
Lumens per Lamp: N/A  
Luminaire Lumens: 188.0 lumens  
Efficiency: N/A  
Efficacy: 26.1 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

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CATALOG NUMBER: P3A05R459827DE010 E3A301GPH

### Luminous Intensity Polar Plot



TEST NUMBER: P1339491

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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°  | 15679  | 15679 | 15679 | 15679 | 15679 |
| 5°  | 35747  | 29012 | 14682 | 5877  | 4006  |
| 10° | 50366  | 39834 | 11334 | 1291  | 601   |
| 15° | 69422  | 47401 | 7242  | 431   | 363   |
| 20° | 86808  | 53228 | 3780  | 303   | 303   |
| 25° | 92884  | 55116 | 1742  | 218   | 266   |
| 30° | 103104 | 51476 | 785   | 228   | 279   |
| 35° | 111066 | 41037 | 241   | 241   | 348   |
| 40° | 107487 | 25419 | 143   | 315   | 401   |
| 45° | 84412  | 12001 | 155   | 403   | 496   |
| 50° | 54241  | 1399  | 205   | 478   | 648   |
| 55° | 8220   | 115   | 229   | 612   | 765   |
| 60° | 132    | 132   | 263   | 702   | 833   |
| 65° | 156    | 156   | 311   | 726   | 986   |
| 70° | 192    | 192   | 385   | 833   | 1090  |
| 75° | 169    | 254   | 508   | 932   | 1186  |
| 80° | 253    | 379   | 631   | 1010  | 1389  |
| 85° | 0      | 503   | 755   | 1258  | 1258  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 84412 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 7.8    | 4.2       |
| 10°-20°   | 28.3   | 15.1      |
| 20°-30°   | 49.7   | 26.5      |
| 30°-40°   | 56.5   | 30.0      |
| 40°-50°   | 36.6   | 19.5      |
| 50°-60°   | 7.2    | 3.8       |
| 60°-70°   | 0.9    | 0.5       |
| 70°-80°   | 0.7    | 0.4       |
| 80°-90°   | 0.3    | 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°    | 85.9   | 45.7      |
| 0°-40°    | 142.3  | 75.7      |
| 0°-60°    | 186.1  | 99.0      |
| 0°-90°    | 188.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 188.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 72  | 72  | 72  | 72   | 72   |      |
| 5°  | 162 | 132 | 67  | 27   | 18   | 17   |
| 15° | 306 | 209 | 32  | 2    | 2    | 88   |
| 25° | 384 | 228 | 7   | 1    | 1    | 180  |
| 35° | 415 | 153 | 1   | 1    | 1    | 255  |
| 45° | 272 | 39  | 0   | 1    | 2    | 205  |
| 55° | 22  | 0   | 1   | 2    | 2    | 41   |
| 65° | 0   | 0   | 1   | 1    | 2    | 0    |
| 75° | 0   | 0   | 1   | 1    | 1    | 0    |
| 85° | 0   | 0   | 0   | 0    | 0    | 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°    | 71.5  | 71.5  | 71.5  | 71.5  | 71.5  | 71.5  | 71.5  | 71.5  | 71.5  | 71.5  | 71.5  |
| 2.5°  | 116.2 | 115.9 | 116.3 | 113.2 | 113.0 | 110.7 | 110.1 | 107.4 | 103.8 | 102.0 | 98.0  |
| 5°    | 162.4 | 160.8 | 160.8 | 157.1 | 155.8 | 153.1 | 148.6 | 142.9 | 138.2 | 131.8 | 124.8 |
| 7.5°  | 198.1 | 197.8 | 197.8 | 194.5 | 191.3 | 187.6 | 181.4 | 175.0 | 167.4 | 157.5 | 147.5 |
| 10°   | 226.2 | 226.7 | 225.3 | 222.3 | 217.8 | 213.7 | 206.4 | 198.6 | 189.3 | 178.9 | 165.6 |
| 12.5° | 261.8 | 258.3 | 257.2 | 250.5 | 244.6 | 236.8 | 228.1 | 219.2 | 207.7 | 194.6 | 179.6 |
| 15°   | 305.8 | 301.4 | 297.0 | 288.0 | 278.3 | 266.2 | 252.7 | 239.5 | 224.7 | 208.8 | 189.9 |
| 17.5° | 345.1 | 345.1 | 339.3 | 325.1 | 312.6 | 294.6 | 276.4 | 258.8 | 241.3 | 220.4 | 196.8 |
| 20°   | 372.0 | 370.6 | 366.2 | 355.8 | 341.5 | 321.2 | 297.5 | 272.8 | 251.7 | 228.1 | 200.8 |
| 22.5° | 380.8 | 380.5 | 380.6 | 374.5 | 363.0 | 342.0 | 312.9 | 283.8 | 257.4 | 230.0 | 198.9 |
| 25°   | 383.9 | 384.6 | 386.1 | 383.8 | 375.1 | 354.1 | 322.3 | 289.0 | 259.1 | 227.8 | 191.7 |
| 27.5° | 397.0 | 395.7 | 397.5 | 395.9 | 386.1 | 361.0 | 324.2 | 287.7 | 255.3 | 219.8 | 178.8 |
| 30°   | 407.2 | 406.9 | 409.9 | 408.5 | 395.7 | 365.4 | 322.5 | 283.0 | 246.1 | 203.3 | 158.5 |
| 32.5° | 413.0 | 413.2 | 414.0 | 408.2 | 389.3 | 355.8 | 314.0 | 273.4 | 228.6 | 181.8 | 132.1 |
| 35°   | 414.9 | 414.0 | 409.6 | 395.3 | 369.5 | 333.6 | 293.1 | 250.6 | 204.9 | 153.3 | 104.4 |
| 37.5° | 406.7 | 401.9 | 390.5 | 369.2 | 339.3 | 305.8 | 266.3 | 221.8 | 172.3 | 121.1 | 77.8  |
| 40°   | 375.5 | 369.0 | 354.7 | 332.8 | 305.0 | 272.6 | 232.2 | 185.7 | 133.6 | 88.8  | 54.7  |
| 42.5° | 328.6 | 325.3 | 310.4 | 291.3 | 267.8 | 235.1 | 193.4 | 146.2 | 98.9  | 61.3  | 34.9  |
| 45°   | 272.2 | 267.9 | 258.5 | 241.7 | 223.1 | 188.8 | 150.0 | 104.7 | 67.4  | 38.7  | 17.3  |
| 47.5° | 204.1 | 204.4 | 197.9 | 185.2 | 167.0 | 138.4 | 102.7 | 70.3  | 42.3  | 20.0  | 3.9   |
| 50°   | 159.0 | 156.8 | 147.6 | 134.6 | 113.4 | 92.1  | 66.3  | 44.3  | 22.3  | 4.1   | 0.3   |
| 52.5° | 88.0  | 89.5  | 84.6  | 80.3  | 69.3  | 55.0  | 39.1  | 22.5  | 4.7   | 0.5   | 0.3   |
| 55°   | 21.5  | 22.8  | 21.9  | 22.3  | 23.1  | 20.6  | 15.9  | 4.4   | 0.5   | 0.3   | 0.3   |
| 57.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.8   | 1.1   | 1.1   | 0.3   | 0.3   | 0.3   | 0.3   |
| 60°   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   |
| 62.5° | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   |
| 65°   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   |
| 67.5° | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   |
| 70°   | 0.3   | 0.3   | 0.3   | 0.2   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   |
| 72.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.3   | 0.3   | 0.3   |
| 75°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.3   | 0.3   | 0.3   |
| 77.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.3   | 0.3   |
| 80°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.3   | 0.3   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.3   |
| 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°    | 71.5  | 71.5  | 71.5  | 71.5 | 71.5   | 71.5 | 71.5   | 71.5 |
| 2.5°  | 95.9  | 92.9  | 87.4  | 71.1 | 57.1   | 46.1 | 39.5   | 38.8 |
| 5°    | 118.7 | 110.7 | 99.1  | 66.7 | 42.1   | 26.7 | 19.3   | 18.2 |
| 7.5°  | 136.8 | 125.5 | 107.5 | 59.4 | 28.8   | 13.7 | 7.5    | 6.3  |
| 10°   | 151.7 | 135.7 | 111.9 | 50.9 | 18.1   | 5.8  | 3.1    | 2.7  |
| 12.5° | 161.9 | 142.6 | 112.7 | 41.5 | 10.4   | 2.8  | 2.0    | 1.9  |
| 15°   | 168.5 | 144.8 | 109.0 | 31.9 | 5.8    | 1.9  | 1.7    | 1.6  |
| 17.5° | 171.2 | 142.9 | 101.7 | 23.1 | 3.1    | 1.4  | 1.4    | 1.4  |
| 20°   | 170.0 | 136.8 | 91.0  | 16.2 | 2.0    | 1.3  | 1.3    | 1.3  |
| 22.5° | 164.0 | 126.3 | 77.7  | 10.8 | 1.4    | 1.1  | 1.1    | 1.1  |
| 25°   | 152.2 | 111.9 | 63.5  | 7.2  | 0.9    | 0.9  | 1.1    | 1.1  |
| 27.5° | 134.6 | 94.3  | 48.6  | 4.9  | 0.8    | 0.9  | 1.1    | 1.1  |
| 30°   | 112.4 | 74.7  | 34.9  | 3.1  | 0.8    | 0.9  | 0.9    | 1.1  |
| 32.5° | 89.3  | 54.4  | 23.0  | 1.9  | 0.6    | 0.9  | 1.1    | 1.3  |
| 35°   | 64.8  | 37.1  | 14.6  | 0.9  | 0.8    | 0.9  | 1.1    | 1.3  |
| 37.5° | 45.4  | 24.2  | 8.5   | 0.6  | 0.8    | 0.9  | 1.3    | 1.3  |
| 40°   | 29.6  | 13.5  | 3.1   | 0.5  | 0.8    | 1.1  | 1.3    | 1.4  |
| 42.5° | 15.4  | 4.7   | 0.6   | 0.5  | 0.8    | 1.1  | 1.4    | 1.6  |
| 45°   | 3.9   | 0.6   | 0.2   | 0.5  | 0.9    | 1.3  | 1.6    | 1.6  |
| 47.5° | 0.5   | 0.2   | 0.2   | 0.6  | 0.9    | 1.4  | 1.6    | 1.7  |
| 50°   | 0.2   | 0.3   | 0.3   | 0.6  | 0.9    | 1.4  | 1.7    | 1.9  |
| 52.5° | 0.3   | 0.3   | 0.3   | 0.6  | 1.1    | 1.4  | 1.9    | 2.0  |
| 55°   | 0.3   | 0.3   | 0.3   | 0.6  | 1.1    | 1.6  | 1.9    | 2.0  |
| 57.5° | 0.3   | 0.3   | 0.3   | 0.6  | 1.1    | 1.6  | 1.9    | 1.9  |
| 60°   | 0.3   | 0.3   | 0.3   | 0.6  | 1.1    | 1.6  | 1.9    | 1.9  |
| 62.5° | 0.3   | 0.3   | 0.5   | 0.6  | 1.1    | 1.4  | 1.9    | 1.9  |
| 65°   | 0.3   | 0.5   | 0.5   | 0.6  | 1.1    | 1.4  | 1.7    | 1.9  |
| 67.5° | 0.3   | 0.3   | 0.5   | 0.6  | 1.1    | 1.4  | 1.7    | 1.9  |
| 70°   | 0.3   | 0.3   | 0.5   | 0.6  | 0.9    | 1.3  | 1.6    | 1.7  |
| 72.5° | 0.3   | 0.3   | 0.5   | 0.6  | 0.9    | 1.3  | 1.4    | 1.6  |
| 75°   | 0.3   | 0.3   | 0.5   | 0.6  | 0.8    | 1.1  | 1.4    | 1.4  |
| 77.5° | 0.3   | 0.3   | 0.5   | 0.5  | 0.8    | 0.9  | 1.3    | 1.3  |
| 80°   | 0.3   | 0.3   | 0.5   | 0.5  | 0.6    | 0.8  | 0.9    | 1.1  |
| 82.5° | 0.3   | 0.3   | 0.3   | 0.5  | 0.5    | 0.6  | 0.8    | 0.8  |
| 85°   | 0.3   | 0.3   | 0.3   | 0.3  | 0.3    | 0.5  | 0.5    | 0.5  |
| 87.5° | 0.2   | 0.3   | 0.3   | 0.3  | 0.3    | 0.3  | 0.3    | 0.2  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)