

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: PORTFOLIO

Report Number: P1312082

Luminaire Tested: LDSQA3D02R309050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

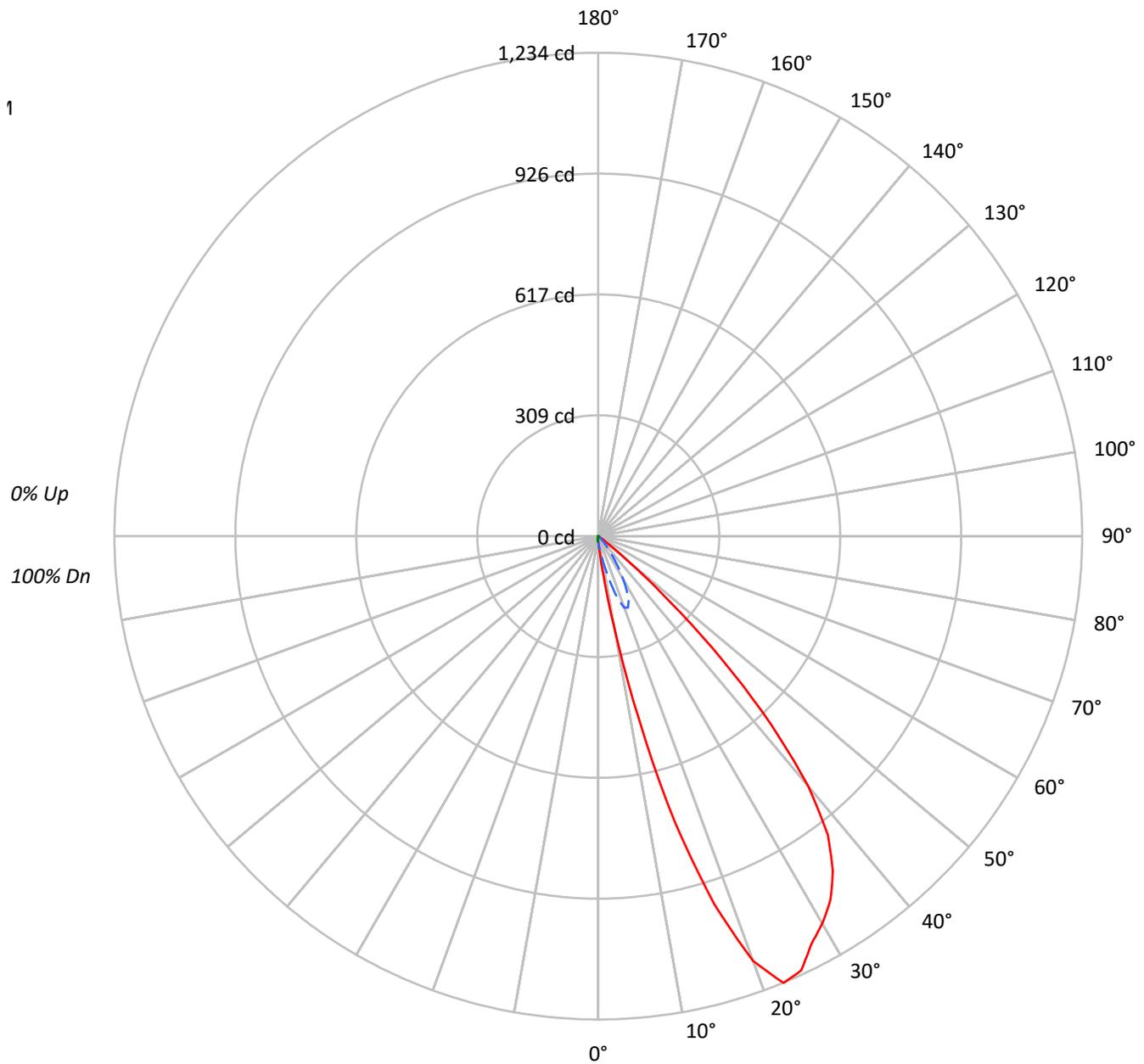
Test Method: LM-79-2019  
Report Number: P1312082  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R309050DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R30 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 291.0 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28  
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 (A<sub>in</sub>): 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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### Luminous Intensity Polar Plot



— 0°-180°    - - - 45°-225°    - - - - 90°-270°



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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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 96  | 95  | 93  | 92  |
| 2   | 106 | 100 | 95  | 92  | 103 | 98  | 94  | 90  | 95  | 92  | 88  | 92  | 89  | 87  | 89  | 87  | 85  | 89  | 87  | 85  | 83  |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 87  | 83  | 79  | 85  | 81  | 78  | 83  | 79  | 77  | 83  | 79  | 77  | 75  |
| 4   | 93  | 84  | 77  | 72  | 91  | 83  | 77  | 72  | 80  | 75  | 71  | 78  | 74  | 70  | 76  | 73  | 69  | 76  | 73  | 69  | 68  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 69  | 65  | 74  | 68  | 64  | 72  | 67  | 63  | 71  | 66  | 63  | 71  | 66  | 63  | 61  |
| 6   | 81  | 71  | 64  | 58  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 61  | 57  | 65  | 61  | 57  | 55  |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 60  | 55  | 52  | 50  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 56  | 51  | 47  | 45  |
| 9   | 67  | 55  | 48  | 43  | 65  | 55  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 52  | 46  | 43  | 52  | 46  | 43  | 41  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 48  | 43  | 39  | 37  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 2377   | 2377  | 2377 | 2377 | 2377 |
| 5°  | 7175   | 4789  | 2247 | 1003 | 830  |
| 10° | 41534  | 10143 | 1766 | 472  | 332  |
| 15° | 135079 | 23000 | 1230 | 89   | 53   |
| 20° | 211353 | 35574 | 788  | 0    | 0    |
| 25° | 232536 | 34756 | 399  | 0    | 0    |
| 30° | 227124 | 25057 | 159  | 0    | 0    |
| 35° | 219201 | 14255 | 63   | 0    | 0    |
| 40° | 186938 | 6048  | 0    | 0    | 0    |
| 45° | 109699 | 2265  | 73   | 0    | 73   |
| 50° | 26632  | 429   | 80   | 80   | 214  |
| 55° | 2312   | 0     | 150  | 240  | 330  |
| 60° | 103    | 0     | 172  | 276  | 448  |
| 65° | 122    | 122   | 326  | 326  | 530  |
| 70° | 151    | 151   | 403  | 403  | 554  |
| 75° | 0      | 200   | 532  | 532  | 532  |
| 80° | 0      | 298   | 793  | 496  | 496  |
| 85° | 0      | 593   | 1581 | 593  | 593  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 109699 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.5    | 0.9       |
| 10°-20°   | 40.0   | 13.7      |
| 20°-30°   | 101.6  | 34.9      |
| 30°-40°   | 101.3  | 34.8      |
| 40°-50°   | 41.0   | 14.1      |
| 50°-60°   | 2.8    | 1.0       |
| 60°-70°   | 0.7    | 0.2       |
| 70°-80°   | 0.6    | 0.2       |
| 80°-90°   | 0.4    | 0.1       |
| 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°    | 144.2  | 49.5      |
| 0°-40°    | 245.5  | 84.3      |
| 0°-60°    | 289.4  | 99.4      |
| 0°-90°    | 291.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 291.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 14   | 14  | 14  | 14   | 14   |      |
| 5°  | 42   | 28  | 13  | 6    | 5    | 10   |
| 15° | 758  | 129 | 7   | 0    | 0    | 220  |
| 25° | 1224 | 183 | 2   | 0    | 0    | 553  |
| 35° | 1043 | 68  | 0   | 0    | 0    | 639  |
| 45° | 450  | 9   | 0   | 0    | 0    | 344  |
| 55° | 8    | 0   | 0   | 1    | 1    | 20   |
| 65° | 0    | 0   | 1   | 1    | 1    | 0    |
| 75° | 0    | 0   | 1   | 1    | 1    | 0    |
| 85° | 0    | 0   | 1   | 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°   | 67.5° |
|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 0°    | 13.8   | 13.8   | 13.8   | 13.8   | 13.8   | 13.8  | 13.8  | 13.8  | 13.8  | 13.8  | 13.8  |
| 2.5°  | 22.9   | 23.1   | 23.1   | 22.6   | 22.3   | 22.3  | 21.5  | 21.3  | 20.5  | 19.7  | 17.0  |
| 5°    | 41.5   | 40.7   | 39.6   | 39.6   | 37.2   | 35.9  | 34.0  | 31.9  | 30.3  | 27.7  | 19.7  |
| 7.5°  | 94.1   | 87.7   | 85.9   | 83.5   | 74.5   | 67.3  | 59.0  | 51.9  | 45.2  | 39.6  | 21.8  |
| 10°   | 237.5  | 225.0  | 214.6  | 193.6  | 167.3  | 142.0 | 118.6 | 91.5  | 72.9  | 58.0  | 23.4  |
| 12.5° | 478.4  | 461.6  | 441.7  | 403.4  | 354.2  | 291.2 | 235.3 | 175.8 | 123.4 | 85.4  | 23.9  |
| 15°   | 757.6  | 729.1  | 698.0  | 649.3  | 568.8  | 478.4 | 377.6 | 282.7 | 198.1 | 129.0 | 23.4  |
| 17.5° | 985.2  | 974.0  | 928.0  | 861.5  | 762.9  | 646.4 | 522.2 | 392.5 | 267.2 | 168.9 | 21.8  |
| 20°   | 1153.2 | 1145.5 | 1090.0 | 1019.2 | 908.1  | 774.6 | 616.9 | 461.1 | 315.4 | 194.1 | 19.4  |
| 22.5° | 1234.3 | 1233.0 | 1192.9 | 1120.5 | 1002.7 | 851.4 | 677.8 | 500.7 | 330.3 | 197.6 | 16.2  |
| 25°   | 1223.7 | 1228.5 | 1205.6 | 1151.9 | 1038.9 | 883.1 | 695.9 | 500.7 | 319.4 | 182.9 | 13.6  |
| 27.5° | 1175.3 | 1178.5 | 1164.1 | 1122.9 | 1017.6 | 860.2 | 670.6 | 468.5 | 287.7 | 157.2 | 11.2  |
| 30°   | 1142.1 | 1143.4 | 1125.6 | 1081.4 | 969.8  | 808.1 | 611.1 | 409.0 | 239.8 | 126.0 | 8.2   |
| 32.5° | 1101.7 | 1101.4 | 1080.6 | 1030.1 | 907.0  | 735.0 | 535.5 | 338.0 | 184.3 | 95.7  | 4.8   |
| 35°   | 1042.6 | 1036.0 | 1007.8 | 949.6  | 813.4  | 636.6 | 439.0 | 257.4 | 132.7 | 67.8  | 2.9   |
| 37.5° | 961.5  | 944.2  | 904.4  | 826.4  | 682.1  | 499.1 | 325.5 | 180.8 | 90.7  | 44.9  | 1.9   |
| 40°   | 831.5  | 813.1  | 758.9  | 664.2  | 515.9  | 359.2 | 219.4 | 117.8 | 57.2  | 26.9  | 1.1   |
| 42.5° | 652.0  | 639.5  | 566.4  | 472.0  | 340.6  | 229.2 | 131.9 | 69.7  | 32.2  | 15.4  | 0.3   |
| 45°   | 450.4  | 434.2  | 376.8  | 296.8  | 204.5  | 127.1 | 73.9  | 36.4  | 18.3  | 9.3   | 0.0   |
| 47.5° | 248.6  | 228.7  | 195.4  | 153.7  | 102.9  | 66.7  | 37.2  | 19.7  | 10.4  | 4.5   | 0.0   |
| 50°   | 99.4   | 98.7   | 78.4   | 55.8   | 39.4   | 30.3  | 18.6  | 10.6  | 5.3   | 1.6   | 0.3   |
| 52.5° | 34.8   | 34.8   | 30.0   | 24.5   | 19.1   | 13.8  | 9.3   | 5.1   | 1.9   | 0.5   | 0.3   |
| 55°   | 7.7    | 8.5    | 8.0    | 7.4    | 7.2    | 6.1   | 4.0   | 1.9   | 0.5   | 0.0   | 0.3   |
| 57.5° | 0.8    | 0.8    | 0.8    | 1.1    | 1.3    | 1.3   | 1.1   | 0.5   | 0.0   | 0.0   | 0.3   |
| 60°   | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.3   | 0.0   | 0.0   | 0.0   | 0.5   |
| 62.5° | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   | 0.5   |
| 65°   | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.5   |
| 67.5° | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.5   |
| 70°   | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.8   |
| 72.5° | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.8   |
| 75°   | 0.0    | 0.0    | 0.3    | 0.3    | 0.0    | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.8   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.3    | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.5   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.3   | 0.3   | 0.3   | 0.5   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.5   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   | 0.5   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   | 0.5   |
| 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):**

|       | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|------|--------|------|--------|------|
| 0°    | 13.8 | 13.8   | 13.8 | 13.8   | 13.8 |
| 2.5°  | 13.8 | 10.9   | 9.0  | 8.0    | 7.7  |
| 5°    | 13.0 | 8.2    | 5.8  | 5.1    | 4.8  |
| 7.5°  | 11.7 | 6.1    | 4.0  | 3.2    | 2.9  |
| 10°   | 10.1 | 4.5    | 2.7  | 1.9    | 1.9  |
| 12.5° | 8.5  | 3.5    | 1.6  | 0.8    | 0.5  |
| 15°   | 6.9  | 2.1    | 0.5  | 0.3    | 0.3  |
| 17.5° | 5.3  | 1.3    | 0.0  | 0.0    | 0.0  |
| 20°   | 4.3  | 0.5    | 0.0  | 0.0    | 0.0  |
| 22.5° | 3.2  | 0.3    | 0.0  | 0.0    | 0.0  |
| 25°   | 2.1  | 0.0    | 0.0  | 0.0    | 0.0  |
| 27.5° | 1.3  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 0.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32.5° | 0.3  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 0.3  | 0.0    | 0.0  | 0.0    | 0.0  |
| 37.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 40°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 42.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 45°   | 0.3  | 0.0    | 0.0  | 0.3    | 0.3  |
| 47.5° | 0.3  | 0.3    | 0.3  | 0.5    | 0.5  |
| 50°   | 0.3  | 0.3    | 0.3  | 0.5    | 0.8  |
| 52.5° | 0.5  | 0.3    | 0.5  | 0.8    | 0.8  |
| 55°   | 0.5  | 0.5    | 0.8  | 1.1    | 1.1  |
| 57.5° | 0.5  | 0.5    | 0.8  | 1.1    | 1.1  |
| 60°   | 0.5  | 0.5    | 0.8  | 1.1    | 1.3  |
| 62.5° | 0.8  | 0.8    | 0.8  | 1.1    | 1.1  |
| 65°   | 0.8  | 0.8    | 0.8  | 1.1    | 1.3  |
| 67.5° | 0.8  | 0.8    | 0.8  | 1.1    | 1.3  |
| 70°   | 0.8  | 0.8    | 0.8  | 1.1    | 1.1  |
| 72.5° | 1.1  | 0.8    | 0.8  | 1.1    | 1.1  |
| 75°   | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |
| 77.5° | 0.8  | 0.8    | 0.5  | 0.8    | 0.8  |
| 80°   | 0.8  | 0.5    | 0.5  | 0.5    | 0.5  |
| 82.5° | 0.8  | 0.5    | 0.5  | 0.5    | 0.5  |
| 85°   | 0.8  | 0.5    | 0.3  | 0.3    | 0.3  |
| 87.5° | 0.8  | 0.5    | 0.3  | 0.3    | 0.3  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)