

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: P1316128

Luminaire Tested: LDSQA3D02R409740DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316128  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R409740DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

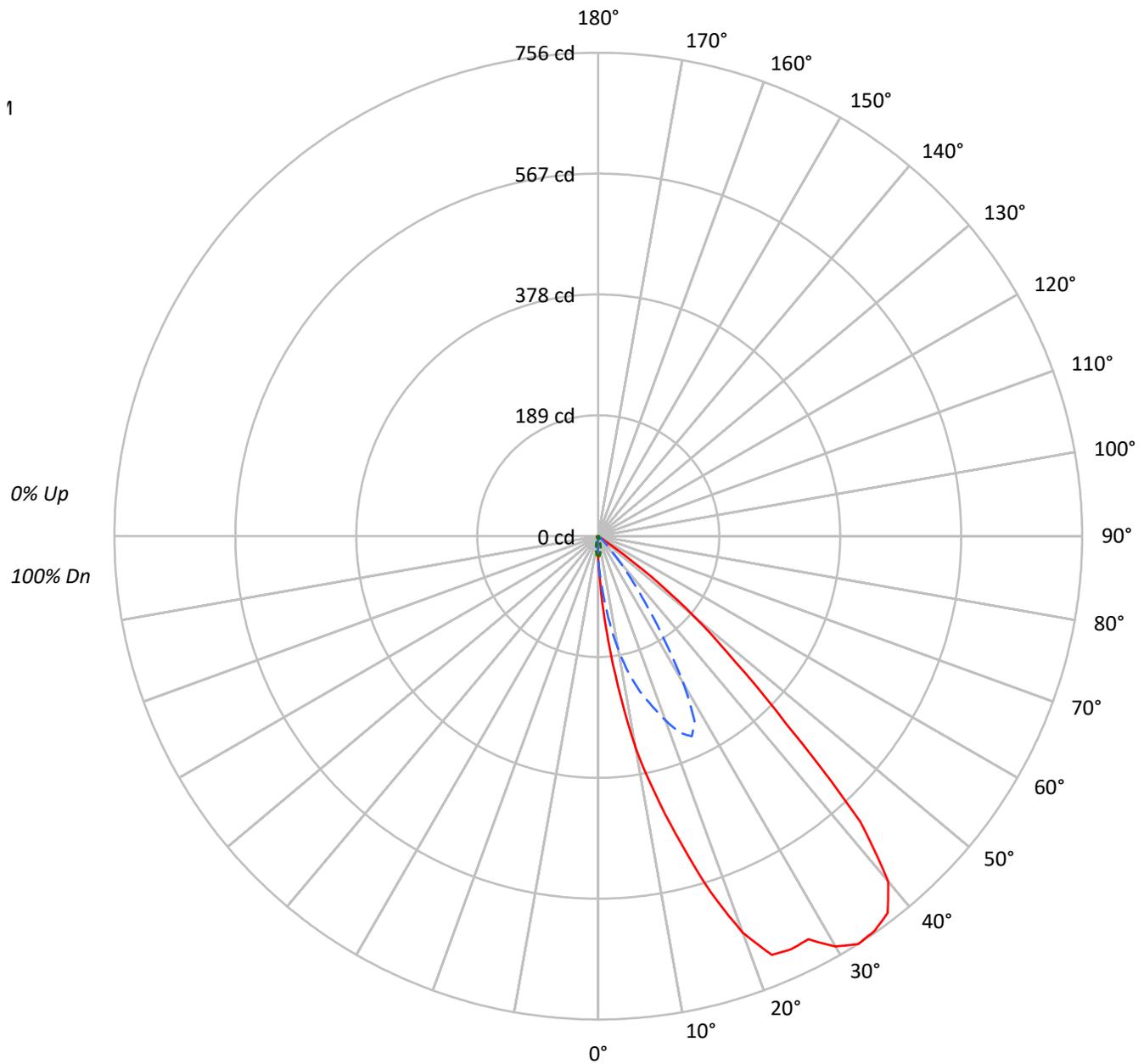
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 279.0 lumens  
Efficiency: N/A  
Efficacy: 77.5 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24  
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: P1316128  
CATALOG NUMBER: LDSQA3D02R409740DE010 3LSQCA30R 1MW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P1316128

CATALOG NUMBER: LDSQA3D02R409740DE010 3LSQCA30R 1MW

**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   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 96  | 94  | 93  | 91  |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 89  | 86  | 84  | 82  |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 82  | 79  | 76  | 74  |
| 4   | 92  | 83  | 77  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 78  | 73  | 69  | 76  | 72  | 68  | 76  | 72  | 68  | 67  |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 64  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 70  | 65  | 62  | 60  |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 60  | 56  | 64  | 60  | 56  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 52  | 62  | 56  | 51  | 61  | 55  | 51  | 59  | 54  | 51  | 59  | 54  | 51  | 49  |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 55  | 50  | 46  | 44  |
| 9   | 66  | 54  | 47  | 42  | 65  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 51  | 46  | 42  | 40  |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 47  | 42  | 38  | 37  |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 5683   | 5683  | 5683 | 5683 | 5683 |
| 5°  | 25638  | 16354 | 5100 | 1954 | 1435 |
| 10° | 58812  | 31583 | 3585 | 700  | 542  |
| 15° | 88258  | 44824 | 2229 | 374  | 339  |
| 20° | 120834 | 56174 | 1301 | 220  | 257  |
| 25° | 135451 | 65654 | 665  | 171  | 228  |
| 30° | 147340 | 52998 | 278  | 139  | 239  |
| 35° | 158357 | 27122 | 105  | 189  | 294  |
| 40° | 158409 | 10814 | 45   | 202  | 382  |
| 45° | 101150 | 3629  | 122  | 341  | 511  |
| 50° | 52514  | 455   | 188  | 455  | 643  |
| 55° | 4534   | 60    | 210  | 570  | 781  |
| 60° | 172    | 69    | 241  | 654  | 896  |
| 65° | 204    | 82    | 367  | 693  | 978  |
| 70° | 101    | 101   | 453  | 705  | 957  |
| 75° | 133    | 133   | 466  | 799  | 1131 |
| 80° | 198    | 198   | 694  | 694  | 893  |
| 85° | 0      | 395   | 1383 | 988  | 988  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 101150 cd/sqm



TEST NUMBER: P1316128

CATALOG NUMBER: LDSQA3D02R409740DE010 3LSQCA30R 1MW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 6.4    | 2.3       |
| 10°-20°   | 37.8   | 13.5      |
| 20°-30°   | 82.7   | 29.6      |
| 30°-40°   | 94.2   | 33.8      |
| 40°-50°   | 49.7   | 17.8      |
| 50°-60°   | 5.9    | 2.1       |
| 60°-70°   | 1.1    | 0.4       |
| 70°-80°   | 0.9    | 0.3       |
| 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°    | 126.9  | 45.5      |
| 0°-40°    | 221.1  | 79.3      |
| 0°-60°    | 276.7  | 99.2      |
| 0°-90°    | 279.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 279.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 33  | 33  | 33  | 33   | 33   |      |
| 5°  | 148 | 95  | 30  | 11   | 8    | 20   |
| 15° | 495 | 251 | 12  | 2    | 2    | 146  |
| 25° | 713 | 346 | 4   | 1    | 1    | 328  |
| 35° | 753 | 129 | 0   | 1    | 1    | 467  |
| 45° | 415 | 15  | 0   | 1    | 2    | 335  |
| 55° | 15  | 0   | 1   | 2    | 3    | 47   |
| 65° | 0   | 0   | 1   | 2    | 2    | 0    |
| 75° | 0   | 0   | 1   | 1    | 2    | 0    |
| 85° | 0   | 0   | 1   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



TEST NUMBER: P1316128

CATALOG NUMBER: LDSQA3D02R409740DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 67.5° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 33.0  | 33.0  | 33.0  | 33.0  | 33.0  | 33.0  | 33.0  | 33.0  | 33.0  | 33.0  | 33.0  |
| 2.5°  | 73.6  | 73.6  | 73.3  | 71.2  | 71.0  | 70.7  | 67.0  | 66.0  | 61.5  | 58.5  | 44.6  |
| 5°    | 148.3 | 145.0 | 144.8 | 141.0 | 134.6 | 126.2 | 120.7 | 112.0 | 103.5 | 94.6  | 54.9  |
| 7.5°  | 236.3 | 239.1 | 231.3 | 227.3 | 213.2 | 203.0 | 187.5 | 173.8 | 154.7 | 136.8 | 63.4  |
| 10°   | 336.3 | 331.3 | 323.5 | 315.7 | 300.4 | 282.3 | 259.2 | 234.9 | 207.3 | 180.6 | 68.1  |
| 12.5° | 414.3 | 407.9 | 403.2 | 392.6 | 377.5 | 354.2 | 326.6 | 294.0 | 257.5 | 219.1 | 67.9  |
| 15°   | 495.0 | 488.6 | 478.0 | 468.5 | 446.1 | 420.0 | 390.0 | 347.1 | 302.3 | 251.4 | 63.0  |
| 17.5° | 583.6 | 575.4 | 563.6 | 549.2 | 527.5 | 498.5 | 460.5 | 408.2 | 344.7 | 277.8 | 54.0  |
| 20°   | 659.3 | 654.4 | 642.6 | 625.6 | 604.4 | 576.1 | 532.2 | 474.2 | 396.9 | 306.5 | 42.9  |
| 22.5° | 708.8 | 704.4 | 696.3 | 681.5 | 665.4 | 635.3 | 595.2 | 531.5 | 440.5 | 332.7 | 32.5  |
| 25°   | 712.8 | 711.0 | 708.8 | 703.9 | 694.2 | 672.8 | 633.6 | 565.0 | 467.6 | 345.5 | 24.1  |
| 27.5° | 710.7 | 710.0 | 709.5 | 706.9 | 700.6 | 679.4 | 639.3 | 569.9 | 464.1 | 325.6 | 17.7  |
| 30°   | 740.9 | 738.8 | 737.6 | 729.1 | 712.4 | 679.6 | 627.2 | 543.3 | 412.4 | 266.5 | 12.7  |
| 32.5° | 756.2 | 755.8 | 754.6 | 746.3 | 722.7 | 680.1 | 607.0 | 478.9 | 327.1 | 192.4 | 8.7   |
| 35°   | 753.2 | 750.8 | 746.6 | 731.2 | 698.5 | 644.9 | 541.4 | 382.5 | 236.0 | 129.0 | 5.7   |
| 37.5° | 742.8 | 737.4 | 729.1 | 701.5 | 657.9 | 584.8 | 439.1 | 281.6 | 160.6 | 83.5  | 3.3   |
| 40°   | 704.6 | 697.3 | 684.3 | 650.6 | 593.3 | 482.0 | 324.7 | 190.3 | 105.4 | 48.1  | 0.9   |
| 42.5° | 605.8 | 596.4 | 586.9 | 549.2 | 483.6 | 359.4 | 213.6 | 117.7 | 60.1  | 26.4  | 0.2   |
| 45°   | 415.3 | 403.5 | 390.5 | 363.1 | 310.6 | 217.6 | 127.1 | 66.3  | 31.1  | 14.9  | 0.2   |
| 47.5° | 288.4 | 283.0 | 260.3 | 225.4 | 172.8 | 115.3 | 65.8  | 32.5  | 16.5  | 6.8   | 0.2   |
| 50°   | 196.0 | 189.8 | 163.4 | 129.7 | 92.0  | 55.2  | 30.2  | 16.3  | 7.3   | 1.7   | 0.2   |
| 52.5° | 102.8 | 95.3  | 78.5  | 59.9  | 37.3  | 23.1  | 13.2  | 7.1   | 2.1   | 0.2   | 0.2   |
| 55°   | 15.1  | 13.9  | 11.3  | 9.2   | 8.3   | 6.4   | 3.8   | 1.7   | 0.2   | 0.2   | 0.5   |
| 57.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.7   | 0.7   | 0.5   | 0.2   | 0.2   | 0.2   | 0.5   |
| 60°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.5   |
| 62.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.5   |
| 65°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.5   |
| 67.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.5   | 0.7   |
| 70°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.7   |
| 72.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.5   | 0.7   |
| 75°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.7   |
| 77.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.5   | 0.7   |
| 80°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.5   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.7   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.5   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 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   |



TEST NUMBER: P1316128

CATALOG NUMBER: LDSQA3D02R409740DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (continued):**

|       | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|------|--------|------|--------|------|
| 0°    | 33.0 | 33.0   | 33.0 | 33.0   | 33.0 |
| 2.5°  | 32.5 | 24.1   | 18.6 | 16.0   | 15.8 |
| 5°    | 29.5 | 17.2   | 11.3 | 8.7    | 8.3  |
| 7.5°  | 25.0 | 12.0   | 6.6  | 4.7    | 4.5  |
| 10°   | 20.5 | 8.3    | 4.0  | 3.3    | 3.1  |
| 12.5° | 16.3 | 5.4    | 2.8  | 2.6    | 2.4  |
| 15°   | 12.5 | 3.5    | 2.1  | 1.9    | 1.9  |
| 17.5° | 9.4  | 2.4    | 1.7  | 1.7    | 1.7  |
| 20°   | 7.1  | 1.7    | 1.2  | 1.4    | 1.4  |
| 22.5° | 5.0  | 1.2    | 0.9  | 1.2    | 1.2  |
| 25°   | 3.5  | 0.9    | 0.9  | 1.2    | 1.2  |
| 27.5° | 2.4  | 0.7    | 0.7  | 0.9    | 1.2  |
| 30°   | 1.4  | 0.5    | 0.7  | 0.9    | 1.2  |
| 32.5° | 0.7  | 0.5    | 0.7  | 1.2    | 1.2  |
| 35°   | 0.5  | 0.7    | 0.9  | 1.2    | 1.4  |
| 37.5° | 0.2  | 0.7    | 0.9  | 1.4    | 1.4  |
| 40°   | 0.2  | 0.7    | 0.9  | 1.4    | 1.7  |
| 42.5° | 0.5  | 0.9    | 1.2  | 1.7    | 1.9  |
| 45°   | 0.5  | 0.9    | 1.4  | 1.9    | 2.1  |
| 47.5° | 0.5  | 0.9    | 1.7  | 2.1    | 2.1  |
| 50°   | 0.7  | 1.2    | 1.7  | 2.1    | 2.4  |
| 52.5° | 0.7  | 1.2    | 1.7  | 2.4    | 2.6  |
| 55°   | 0.7  | 1.2    | 1.9  | 2.4    | 2.6  |
| 57.5° | 0.7  | 1.4    | 1.9  | 2.4    | 2.6  |
| 60°   | 0.7  | 1.2    | 1.9  | 2.4    | 2.6  |
| 62.5° | 0.9  | 1.2    | 1.7  | 2.4    | 2.4  |
| 65°   | 0.9  | 1.2    | 1.7  | 2.4    | 2.4  |
| 67.5° | 0.9  | 1.2    | 1.7  | 2.1    | 2.1  |
| 70°   | 0.9  | 1.2    | 1.4  | 1.9    | 1.9  |
| 72.5° | 0.9  | 1.2    | 1.4  | 1.7    | 1.9  |
| 75°   | 0.7  | 0.9    | 1.2  | 1.4    | 1.7  |
| 77.5° | 0.7  | 0.9    | 0.9  | 1.4    | 1.4  |
| 80°   | 0.7  | 0.7    | 0.7  | 0.9    | 0.9  |
| 82.5° | 0.7  | 0.7    | 0.5  | 0.7    | 0.7  |
| 85°   | 0.7  | 0.5    | 0.5  | 0.5    | 0.5  |
| 87.5° | 0.5  | 0.5    | 0.2  | 0.2    | 0.2  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)