

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: P1312508

Luminaire Tested: P3SQAS13R609727DE010 E3SQCA451MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312508  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS13R609727DE010 E3SQCA451MW  
Description: 3in Adjustable LED luminaire with, R60 optic, 2700K CCT AND, 97CRI , E3SQCA451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

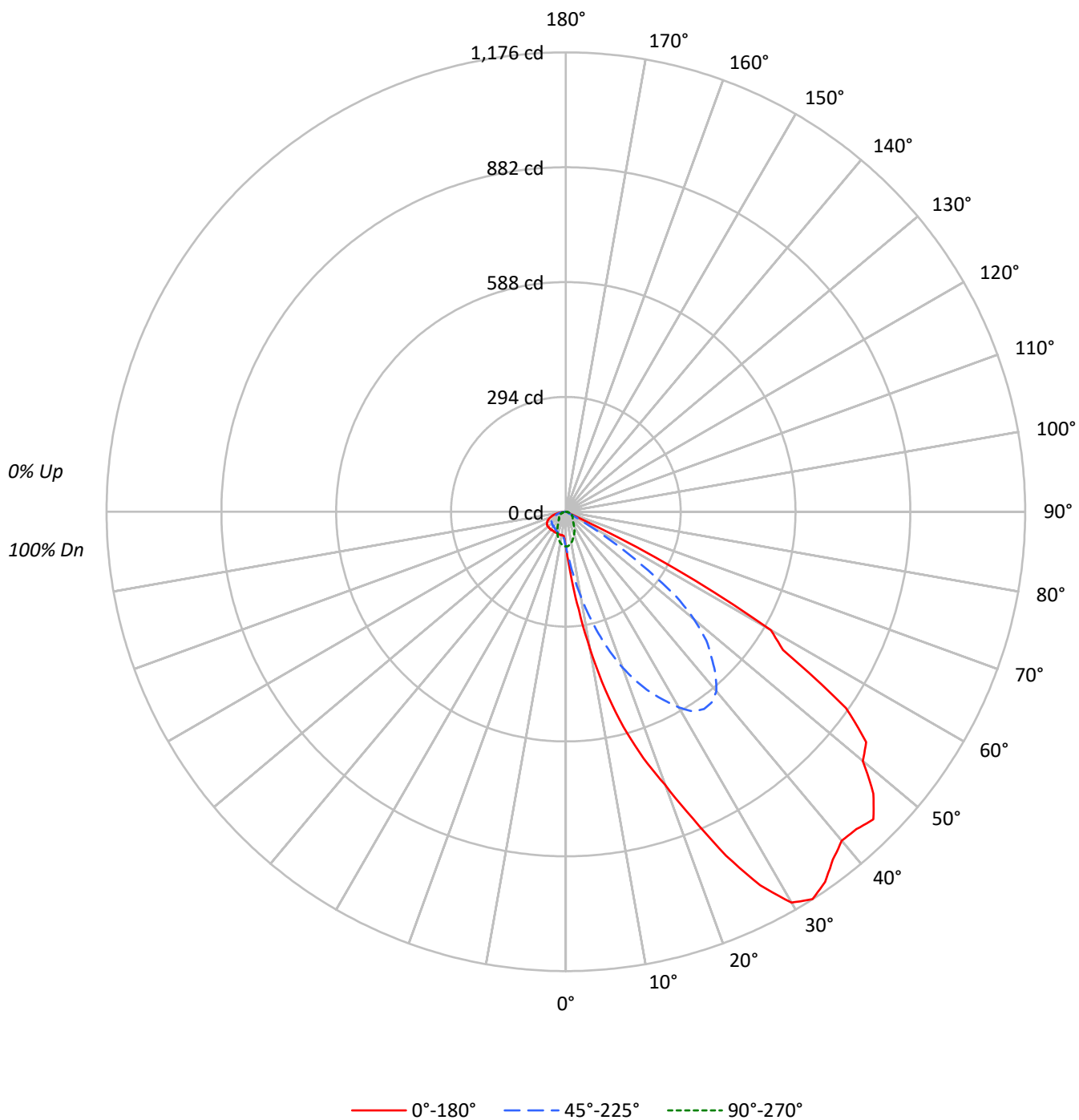
Lumens per Lamp: N/A  
Luminaire Lumens: 895.0 lumens  
Efficiency: N/A  
Efficacy: 61.3 lumens/watt  
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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

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### Luminous Intensity Polar Plot



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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 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 87  |    |    |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 79  | 76  | 74  |    |    |
| 3   | 92  | 82  | 74  | 68  | 90  | 81  | 73  | 68  | 78  | 72  | 67  | 75  | 70  | 65  | 72  | 68  | 64  | 62  |    |    |
| 4   | 84  | 72  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 53  |    |    |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |    |    |
| 6   | 70  | 57  | 48  | 42  | 69  | 56  | 48  | 42  | 54  | 47  | 41  | 53  | 46  | 41  | 51  | 45  | 41  | 39  |    |    |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 35  | 33  |    |    |
| 8   | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 32  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 29  |    |    |
| 9   | 55  | 42  | 33  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 25  |    |    |
| 10  | 52  | 38  | 30  | 25  | 50  | 38  | 30  | 25  | 37  | 29  | 24  | 36  | 29  | 24  | 35  | 29  | 24  | 22  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 15276  | 15276  | 15276 | 15276 | 15276 |
| 5°  | 30098  | 23494  | 15058 | 11393 | 10822 |
| 10° | 62170  | 38264  | 14078 | 10388 | 10528 |
| 15° | 101683 | 57448  | 12623 | 10448 | 10734 |
| 20° | 136430 | 77837  | 11326 | 10428 | 10887 |
| 25° | 184592 | 96629  | 9900  | 10356 | 11288 |
| 30° | 229749 | 115024 | 8253  | 10361 | 11813 |
| 35° | 243232 | 129658 | 7022  | 10596 | 12320 |
| 40° | 247100 | 134802 | 6407  | 10971 | 13354 |
| 45° | 271277 | 128405 | 6138  | 11691 | 14467 |
| 50° | 265948 | 115103 | 6109  | 12432 | 15915 |
| 55° | 262848 | 70591  | 6095  | 13422 | 17595 |
| 60° | 208493 | 16809  | 6441  | 14294 | 19048 |
| 65° | 13244  | 2975   | 6316  | 14589 | 20539 |
| 70° | 2870   | 3273   | 6143  | 15157 | 21703 |
| 75° | 2728   | 3261   | 5390  | 14639 | 22225 |
| 80° | 2380   | 3273   | 5653  | 14480 | 21026 |
| 85° | 1581   | 3162   | 6521  | 12844 | 20946 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 286330 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 11.1   | 1.2       |
| 10°-20°   | 55.8   | 6.2       |
| 20°-30°   | 129.4  | 14.5      |
| 30°-40°   | 201.2  | 22.5      |
| 40°-50°   | 229.2  | 25.6      |
| 50°-60°   | 193.1  | 21.6      |
| 60°-70°   | 56.0   | 6.3       |
| 70°-80°   | 14.4   | 1.6       |
| 80°-90°   | 4.8    | 0.5       |
| 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°    | 196.3  | 21.9      |
| 0°-40°    | 397.5  | 44.4      |
| 0°-60°    | 819.8  | 91.6      |
| 0°-90°    | 895.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 895.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 89   | 89  | 89  | 89   | 89   |      |
| 5°  | 174  | 136 | 87  | 66   | 63   | 22   |
| 15° | 570  | 322 | 71  | 59   | 60   | 165  |
| 25° | 971  | 508 | 52  | 54   | 59   | 451  |
| 35° | 1157 | 617 | 33  | 50   | 59   | 719  |
| 45° | 1114 | 527 | 25  | 48   | 59   | 837  |
| 55° | 875  | 235 | 20  | 45   | 59   | 737  |
| 65° | 32   | 7   | 16  | 36   | 50   | 161  |
| 75° | 4    | 5   | 8   | 22   | 33   | 4    |
| 85° | 1    | 2   | 3   | 6    | 11   | 1    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°   | 35°   | 45°   | 67.5° | 90°  |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|------|
| 0°    | 88.7   | 88.7   | 88.7   | 88.7   | 88.7   | 88.7   | 88.7  | 88.7  | 88.7  | 88.7  | 88.7 |
| 2.5°  | 119.6  | 118.8  | 118.8  | 118.0  | 117.2  | 116.3  | 113.9 | 113.1 | 108.2 | 98.4  | 88.7 |
| 5°    | 174.1  | 173.3  | 170.8  | 170.0  | 166.0  | 160.3  | 154.6 | 148.9 | 135.9 | 108.2 | 87.1 |
| 7.5°  | 252.2  | 253.8  | 252.2  | 243.3  | 237.6  | 228.6  | 211.5 | 199.3 | 173.3 | 118.0 | 83.8 |
| 10°   | 355.5  | 355.5  | 353.1  | 339.3  | 327.1  | 310.0  | 288.0 | 266.8 | 218.8 | 126.9 | 80.5 |
| 12.5° | 467.8  | 470.2  | 458.0  | 446.6  | 424.7  | 403.5  | 373.4 | 341.7 | 270.9 | 134.2 | 76.5 |
| 15°   | 570.3  | 568.7  | 556.5  | 541.8  | 519.1  | 489.8  | 458.0 | 417.4 | 322.2 | 139.1 | 70.8 |
| 17.5° | 661.4  | 658.2  | 647.6  | 631.3  | 603.7  | 571.1  | 530.4 | 486.5 | 375.1 | 143.2 | 66.7 |
| 20°   | 744.4  | 733.0  | 720.8  | 703.7  | 676.9  | 642.7  | 600.4 | 550.8 | 424.7 | 143.2 | 61.8 |
| 22.5° | 849.4  | 838.0  | 820.9  | 794.9  | 759.1  | 716.8  | 667.1 | 611.0 | 468.6 | 139.9 | 56.9 |
| 25°   | 971.4  | 962.4  | 933.2  | 899.8  | 853.4  | 803.0  | 745.2 | 669.6 | 508.5 | 135.1 | 52.1 |
| 27.5° | 1078.0 | 1068.2 | 1038.9 | 990.1  | 934.0  | 873.8  | 812.8 | 735.5 | 543.5 | 126.1 | 46.4 |
| 30°   | 1155.3 | 1143.1 | 1120.3 | 1073.9 | 1005.6 | 932.3  | 859.9 | 785.9 | 578.4 | 115.5 | 41.5 |
| 32.5° | 1175.6 | 1174.0 | 1156.9 | 1122.7 | 1061.7 | 981.2  | 894.9 | 814.4 | 606.1 | 101.7 | 37.4 |
| 35°   | 1156.9 | 1159.3 | 1156.1 | 1139.0 | 1094.2 | 1015.3 | 917.7 | 829.8 | 616.7 | 87.9  | 33.4 |
| 37.5° | 1122.7 | 1126.0 | 1131.7 | 1134.1 | 1105.6 | 1035.7 | 930.7 | 836.3 | 614.2 | 74.0  | 30.9 |
| 40°   | 1099.1 | 1097.5 | 1097.5 | 1113.8 | 1108.1 | 1044.6 | 932.3 | 831.5 | 599.6 | 59.4  | 28.5 |
| 42.5° | 1101.6 | 1083.7 | 1071.5 | 1097.5 | 1105.6 | 1040.6 | 921.8 | 818.4 | 567.9 | 45.6  | 26.0 |
| 45°   | 1113.8 | 1075.5 | 1054.4 | 1087.7 | 1100.8 | 1026.7 | 902.2 | 798.9 | 527.2 | 31.7  | 25.2 |
| 47.5° | 1068.2 | 1043.0 | 1039.7 | 1086.9 | 1091.8 | 1003.1 | 872.1 | 768.0 | 488.1 | 22.0  | 23.6 |
| 50°   | 992.6  | 988.5  | 1005.6 | 1054.4 | 1055.2 | 964.1  | 838.0 | 711.9 | 429.6 | 15.5  | 22.8 |
| 52.5° | 969.0  | 971.4  | 986.9  | 1012.1 | 988.5  | 898.2  | 776.1 | 664.7 | 355.5 | 12.2  | 22.0 |
| 55°   | 875.4  | 879.5  | 894.1  | 909.6  | 892.5  | 817.6  | 701.3 | 607.7 | 235.1 | 11.4  | 20.3 |
| 57.5° | 659.0  | 669.6  | 696.4  | 710.2  | 711.9  | 666.3  | 635.4 | 523.9 | 132.6 | 11.4  | 19.5 |
| 60°   | 605.3  | 591.5  | 579.3  | 550.8  | 524.8  | 519.1  | 522.3 | 393.0 | 48.8  | 10.6  | 18.7 |
| 62.5° | 316.5  | 310.0  | 328.7  | 340.9  | 344.1  | 362.0  | 338.4 | 207.5 | 10.6  | 10.6  | 17.1 |
| 65°   | 32.5   | 32.5   | 39.9   | 52.9   | 87.9   | 117.2  | 111.5 | 60.2  | 7.3   | 9.8   | 15.5 |
| 67.5° | 9.8    | 9.8    | 9.8    | 11.4   | 14.6   | 14.6   | 12.2  | 8.9   | 7.3   | 8.9   | 13.8 |
| 70°   | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 6.5   | 5.7   | 6.5   | 8.1   | 12.2 |
| 72.5° | 4.9    | 4.9    | 4.9    | 4.9    | 5.7    | 5.7    | 5.7   | 5.7   | 5.7   | 7.3   | 10.6 |
| 75°   | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1   | 4.9   | 4.9   | 5.7   | 8.1  |
| 77.5° | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 4.1   | 4.1   | 4.1   | 4.9   | 6.5  |
| 80°   | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 3.3    | 3.3   | 3.3   | 3.3   | 4.1   | 5.7  |
| 82.5° | 1.6    | 1.6    | 1.6    | 1.6    | 2.4    | 2.4    | 2.4   | 2.4   | 2.4   | 3.3   | 4.1  |
| 85°   | 0.8    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6   | 1.6   | 1.6   | 2.4   | 3.3  |
| 87.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   | 0.8   | 1.6   | 1.6   | 2.4  |
| 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):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0°    | 88.7   | 88.7 | 88.7   | 88.7 |
| 2.5°  | 80.5   | 74.8 | 71.6   | 70.0 |
| 5°    | 73.2   | 65.9 | 63.5   | 62.6 |
| 7.5°  | 66.7   | 61.8 | 61.0   | 61.0 |
| 10°   | 62.6   | 59.4 | 60.2   | 60.2 |
| 12.5° | 60.2   | 59.4 | 60.2   | 61.0 |
| 15°   | 57.8   | 58.6 | 60.2   | 60.2 |
| 17.5° | 56.1   | 57.8 | 59.4   | 60.2 |
| 20°   | 53.7   | 56.9 | 59.4   | 59.4 |
| 22.5° | 52.1   | 56.1 | 58.6   | 59.4 |
| 25°   | 50.4   | 54.5 | 57.8   | 59.4 |
| 27.5° | 48.0   | 53.7 | 57.8   | 58.6 |
| 30°   | 45.6   | 52.1 | 56.9   | 59.4 |
| 32.5° | 43.1   | 51.3 | 56.9   | 58.6 |
| 35°   | 41.5   | 50.4 | 56.9   | 58.6 |
| 37.5° | 39.9   | 49.6 | 56.9   | 59.4 |
| 40°   | 39.1   | 48.8 | 56.1   | 59.4 |
| 42.5° | 37.4   | 48.8 | 56.1   | 59.4 |
| 45°   | 36.6   | 48.0 | 56.1   | 59.4 |
| 47.5° | 35.8   | 47.2 | 56.1   | 59.4 |
| 50°   | 34.2   | 46.4 | 55.3   | 59.4 |
| 52.5° | 33.4   | 45.6 | 55.3   | 59.4 |
| 55°   | 31.7   | 44.7 | 54.5   | 58.6 |
| 57.5° | 30.9   | 43.1 | 53.7   | 56.9 |
| 60°   | 29.3   | 41.5 | 52.1   | 55.3 |
| 62.5° | 26.8   | 39.1 | 49.6   | 53.7 |
| 65°   | 24.4   | 35.8 | 47.2   | 50.4 |
| 67.5° | 22.0   | 33.4 | 43.9   | 47.2 |
| 70°   | 19.5   | 30.1 | 39.9   | 43.1 |
| 72.5° | 17.1   | 26.0 | 35.8   | 38.2 |
| 75°   | 14.6   | 22.0 | 30.1   | 33.4 |
| 77.5° | 11.4   | 17.9 | 25.2   | 27.7 |
| 80°   | 8.9    | 14.6 | 19.5   | 21.2 |
| 82.5° | 7.3    | 10.6 | 14.6   | 15.5 |
| 85°   | 4.9    | 6.5  | 8.9    | 10.6 |
| 87.5° | 2.4    | 3.3  | 4.1    | 4.9  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)