

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: P1307750

Luminaire Tested: P3SQAS05R609030DE010 E3SQCA451MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307750  
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: P3SQAS05R609030DE010 E3SQCA451MB  
Description: 3in Adjustable LED luminaire with, R60 optic, 3000K CCT AND, 90CRI , E3SQCA451MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

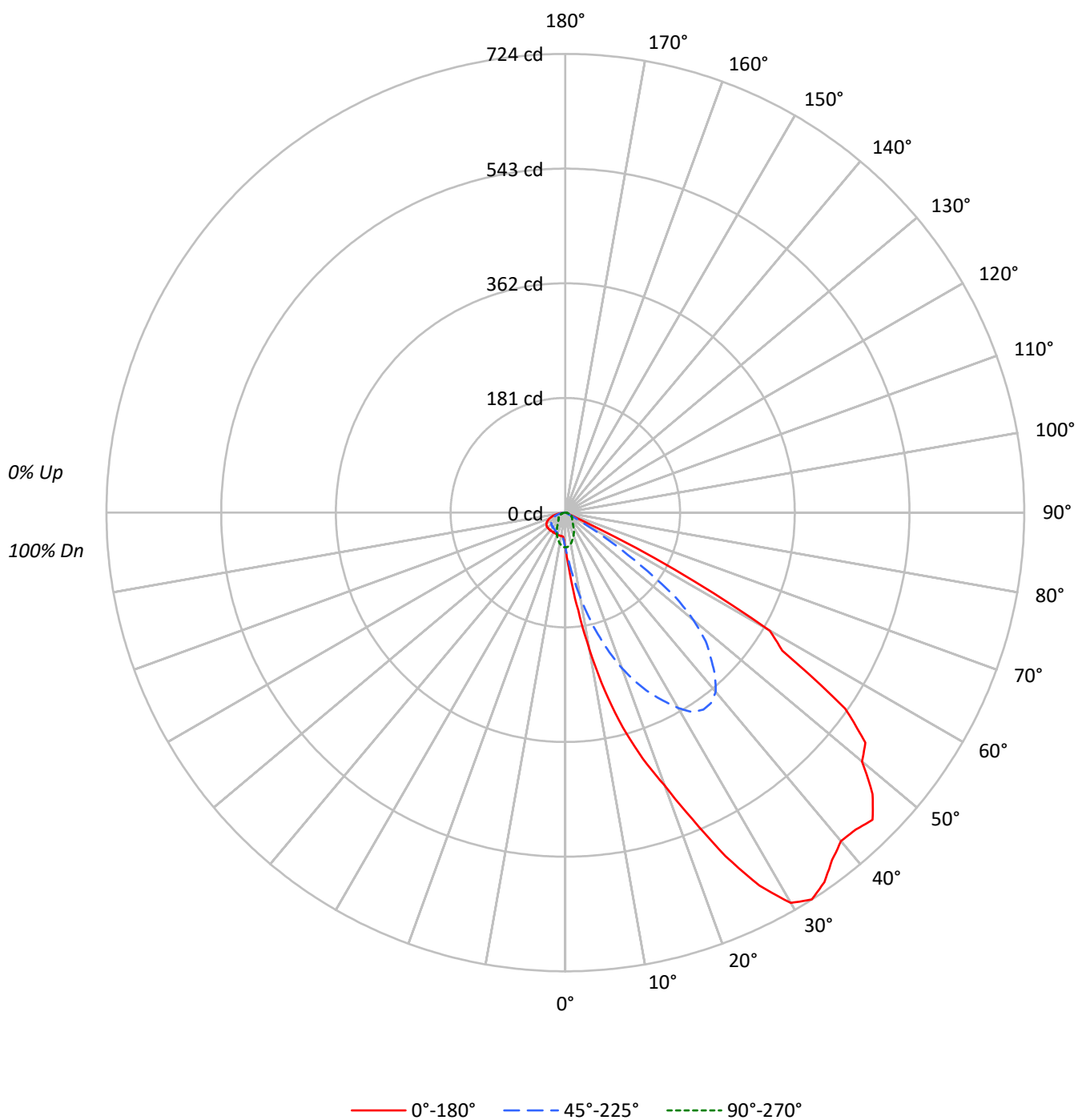
Lumens per Lamp: N/A  
Luminaire Lumens: 551.0 lumens  
Efficiency: N/A  
Efficacy: 76.5 lumens/watt  
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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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### 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  | 94  | 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°  | 9403   | 9403  | 9403 | 9403 | 9403  |
| 5°  | 18533  | 14453 | 9266 | 7019 | 6673  |
| 10° | 38281  | 23556 | 8674 | 6401 | 6488  |
| 15° | 62600  | 35356 | 7774 | 6437 | 6615  |
| 20° | 83995  | 47927 | 6983 | 6433 | 6708  |
| 25° | 113636 | 59478 | 6100 | 6385 | 6955  |
| 30° | 141433 | 70816 | 5071 | 6384 | 7278  |
| 35° | 149737 | 79830 | 4310 | 6539 | 7590  |
| 40° | 152136 | 82981 | 3934 | 6767 | 8228  |
| 45° | 167009 | 79059 | 3775 | 7209 | 8914  |
| 50° | 163733 | 70868 | 3751 | 7636 | 9806  |
| 55° | 161811 | 43478 | 3753 | 8257 | 10839 |
| 60° | 128340 | 10368 | 3961 | 8783 | 11746 |
| 65° | 8150   | 1834  | 3871 | 8965 | 12674 |
| 70° | 1762   | 2014  | 3777 | 9316 | 13344 |
| 75° | 1664   | 1996  | 3327 | 8983 | 13641 |
| 80° | 1488   | 1984  | 3471 | 8926 | 12893 |
| 85° | 988    | 1976  | 3952 | 7904 | 12844 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 176279 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 6.8    | 1.2       |
| 10°-20°   | 34.4   | 6.2       |
| 20°-30°   | 79.7   | 14.5      |
| 30°-40°   | 123.9  | 22.5      |
| 40°-50°   | 141.1  | 25.6      |
| 50°-60°   | 118.9  | 21.6      |
| 60°-70°   | 34.5   | 6.3       |
| 70°-80°   | 8.8    | 1.6       |
| 80°-90°   | 3.0    | 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°    | 120.9  | 21.9      |
| 0°-40°    | 244.7  | 44.4      |
| 0°-60°    | 504.7  | 91.6      |
| 0°-90°    | 551.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 551.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 55  | 55  | 55  | 55   | 55   |      |
| 5°  | 107 | 84  | 54  | 41   | 39   | 14   |
| 15° | 351 | 198 | 44  | 36   | 37   | 102  |
| 25° | 598 | 313 | 32  | 34   | 37   | 278  |
| 35° | 712 | 380 | 20  | 31   | 36   | 442  |
| 45° | 686 | 325 | 16  | 30   | 37   | 515  |
| 55° | 539 | 145 | 12  | 28   | 36   | 453  |
| 65° | 20  | 4   | 10  | 22   | 31   | 99   |
| 75° | 2   | 3   | 5   | 14   | 20   | 3    |
| 85° | 0   | 1   | 2   | 4    | 6    | 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°    | 54.6  | 54.6  | 54.6  | 54.6  | 54.6  | 54.6  | 54.6  | 54.6  | 54.6  | 54.6  | 54.6 |
| 2.5°  | 73.6  | 73.1  | 73.1  | 72.6  | 72.1  | 71.6  | 70.1  | 69.6  | 66.6  | 60.6  | 54.6 |
| 5°    | 107.2 | 106.7 | 105.2 | 104.7 | 102.2 | 98.7  | 95.2  | 91.7  | 83.6  | 66.6  | 53.6 |
| 7.5°  | 155.3 | 156.3 | 155.3 | 149.8 | 146.3 | 140.7 | 130.2 | 122.7 | 106.7 | 72.6  | 51.6 |
| 10°   | 218.9 | 218.9 | 217.4 | 208.9 | 201.3 | 190.8 | 177.3 | 164.3 | 134.7 | 78.1  | 49.6 |
| 12.5° | 288.0 | 289.5 | 282.0 | 275.0 | 261.5 | 248.4 | 229.9 | 210.4 | 166.8 | 82.6  | 47.1 |
| 15°   | 351.1 | 350.1 | 342.6 | 333.6 | 319.6 | 301.5 | 282.0 | 256.9 | 198.3 | 85.6  | 43.6 |
| 17.5° | 407.2 | 405.2 | 398.7 | 388.7 | 371.6 | 351.6 | 326.6 | 299.5 | 230.9 | 88.2  | 41.1 |
| 20°   | 458.3 | 451.3 | 443.8 | 433.2 | 416.7 | 395.7 | 369.6 | 339.1 | 261.5 | 88.2  | 38.1 |
| 22.5° | 522.9 | 515.9 | 505.4 | 489.3 | 467.3 | 441.3 | 410.7 | 376.2 | 288.5 | 86.1  | 35.1 |
| 25°   | 598.0 | 592.5 | 574.5 | 554.0 | 525.4 | 494.4 | 458.8 | 412.2 | 313.0 | 83.1  | 32.1 |
| 27.5° | 663.6 | 657.6 | 639.6 | 609.6 | 575.0 | 537.9 | 500.4 | 452.8 | 334.6 | 77.6  | 28.5 |
| 30°   | 711.2 | 703.7 | 689.7 | 661.1 | 619.1 | 574.0 | 529.4 | 483.8 | 356.1 | 71.1  | 25.5 |
| 32.5° | 723.8 | 722.8 | 712.2 | 691.2 | 653.6 | 604.0 | 551.0 | 501.4 | 373.1 | 62.6  | 23.0 |
| 35°   | 712.2 | 713.7 | 711.7 | 701.2 | 673.7 | 625.1 | 565.0 | 510.9 | 379.7 | 54.1  | 20.5 |
| 37.5° | 691.2 | 693.2 | 696.7 | 698.2 | 680.7 | 637.6 | 573.0 | 514.9 | 378.2 | 45.6  | 19.0 |
| 40°   | 676.7 | 675.7 | 675.7 | 685.7 | 682.2 | 643.1 | 574.0 | 511.9 | 369.1 | 36.6  | 17.5 |
| 42.5° | 678.2 | 667.2 | 659.6 | 675.7 | 680.7 | 640.6 | 567.5 | 503.9 | 349.6 | 28.0  | 16.0 |
| 45°   | 685.7 | 662.1 | 649.1 | 669.7 | 677.7 | 632.1 | 555.5 | 491.9 | 324.6 | 19.5  | 15.5 |
| 47.5° | 657.6 | 642.1 | 640.1 | 669.2 | 672.2 | 617.6 | 536.9 | 472.8 | 300.5 | 13.5  | 14.5 |
| 50°   | 611.1 | 608.6 | 619.1 | 649.1 | 649.6 | 593.5 | 515.9 | 438.3 | 264.5 | 9.5   | 14.0 |
| 52.5° | 596.5 | 598.0 | 607.6 | 623.1 | 608.6 | 553.0 | 477.8 | 409.2 | 218.9 | 7.5   | 13.5 |
| 55°   | 538.9 | 541.4 | 550.5 | 560.0 | 549.5 | 503.4 | 431.7 | 374.1 | 144.8 | 7.0   | 12.5 |
| 57.5° | 405.7 | 412.2 | 428.7 | 437.3 | 438.3 | 410.2 | 391.2 | 322.6 | 81.6  | 7.0   | 12.0 |
| 60°   | 372.6 | 364.1 | 356.6 | 339.1 | 323.1 | 319.6 | 321.6 | 241.9 | 30.1  | 6.5   | 11.5 |
| 62.5° | 194.8 | 190.8 | 202.3 | 209.9 | 211.9 | 222.9 | 208.4 | 127.7 | 6.5   | 6.5   | 10.5 |
| 65°   | 20.0  | 20.0  | 24.5  | 32.6  | 54.1  | 72.1  | 68.6  | 37.1  | 4.5   | 6.0   | 9.5  |
| 67.5° | 6.0   | 6.0   | 6.0   | 7.0   | 9.0   | 9.0   | 7.5   | 5.5   | 4.5   | 5.5   | 8.5  |
| 70°   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 4.0   | 3.5   | 4.0   | 5.0   | 7.5  |
| 72.5° | 3.0   | 3.0   | 3.0   | 3.0   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 4.5   | 6.5  |
| 75°   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 3.0   | 3.0   | 3.5   | 5.0  |
| 77.5° | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.5   | 2.5   | 2.5   | 3.0   | 4.0  |
| 80°   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 2.0   | 2.0   | 2.0   | 2.0   | 2.5   | 3.5  |
| 82.5° | 1.0   | 1.0   | 1.0   | 1.0   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 2.0   | 2.5  |
| 85°   | 0.5   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.5   | 2.0  |
| 87.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 1.0   | 1.0   | 1.5  |
| 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):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0°    | 54.6   | 54.6 | 54.6   | 54.6 |
| 2.5°  | 49.6   | 46.1 | 44.1   | 43.1 |
| 5°    | 45.1   | 40.6 | 39.1   | 38.6 |
| 7.5°  | 41.1   | 38.1 | 37.6   | 37.6 |
| 10°   | 38.6   | 36.6 | 37.1   | 37.1 |
| 12.5° | 37.1   | 36.6 | 37.1   | 37.6 |
| 15°   | 35.6   | 36.1 | 37.1   | 37.1 |
| 17.5° | 34.6   | 35.6 | 36.6   | 37.1 |
| 20°   | 33.1   | 35.1 | 36.6   | 36.6 |
| 22.5° | 32.1   | 34.6 | 36.1   | 36.6 |
| 25°   | 31.1   | 33.6 | 35.6   | 36.6 |
| 27.5° | 29.6   | 33.1 | 35.6   | 36.1 |
| 30°   | 28.0   | 32.1 | 35.1   | 36.6 |
| 32.5° | 26.5   | 31.6 | 35.1   | 36.1 |
| 35°   | 25.5   | 31.1 | 35.1   | 36.1 |
| 37.5° | 24.5   | 30.6 | 35.1   | 36.6 |
| 40°   | 24.0   | 30.1 | 34.6   | 36.6 |
| 42.5° | 23.0   | 30.1 | 34.6   | 36.6 |
| 45°   | 22.5   | 29.6 | 34.6   | 36.6 |
| 47.5° | 22.0   | 29.1 | 34.6   | 36.6 |
| 50°   | 21.0   | 28.5 | 34.1   | 36.6 |
| 52.5° | 20.5   | 28.0 | 34.1   | 36.6 |
| 55°   | 19.5   | 27.5 | 33.6   | 36.1 |
| 57.5° | 19.0   | 26.5 | 33.1   | 35.1 |
| 60°   | 18.0   | 25.5 | 32.1   | 34.1 |
| 62.5° | 16.5   | 24.0 | 30.6   | 33.1 |
| 65°   | 15.0   | 22.0 | 29.1   | 31.1 |
| 67.5° | 13.5   | 20.5 | 27.0   | 29.1 |
| 70°   | 12.0   | 18.5 | 24.5   | 26.5 |
| 72.5° | 10.5   | 16.0 | 22.0   | 23.5 |
| 75°   | 9.0    | 13.5 | 18.5   | 20.5 |
| 77.5° | 7.0    | 11.0 | 15.5   | 17.0 |
| 80°   | 5.5    | 9.0  | 12.0   | 13.0 |
| 82.5° | 4.5    | 6.5  | 9.0    | 9.5  |
| 85°   | 3.0    | 4.0  | 5.5    | 6.5  |
| 87.5° | 1.5    | 2.0  | 2.5    | 3.0  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)