

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: P1315569

Luminaire Tested: P3SQAS17R609740DE010 E3SQCA451MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315569  
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: P3SQAS17R609740DE010 E3SQCA451MMS  
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 97CRI , E3SQCA451MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

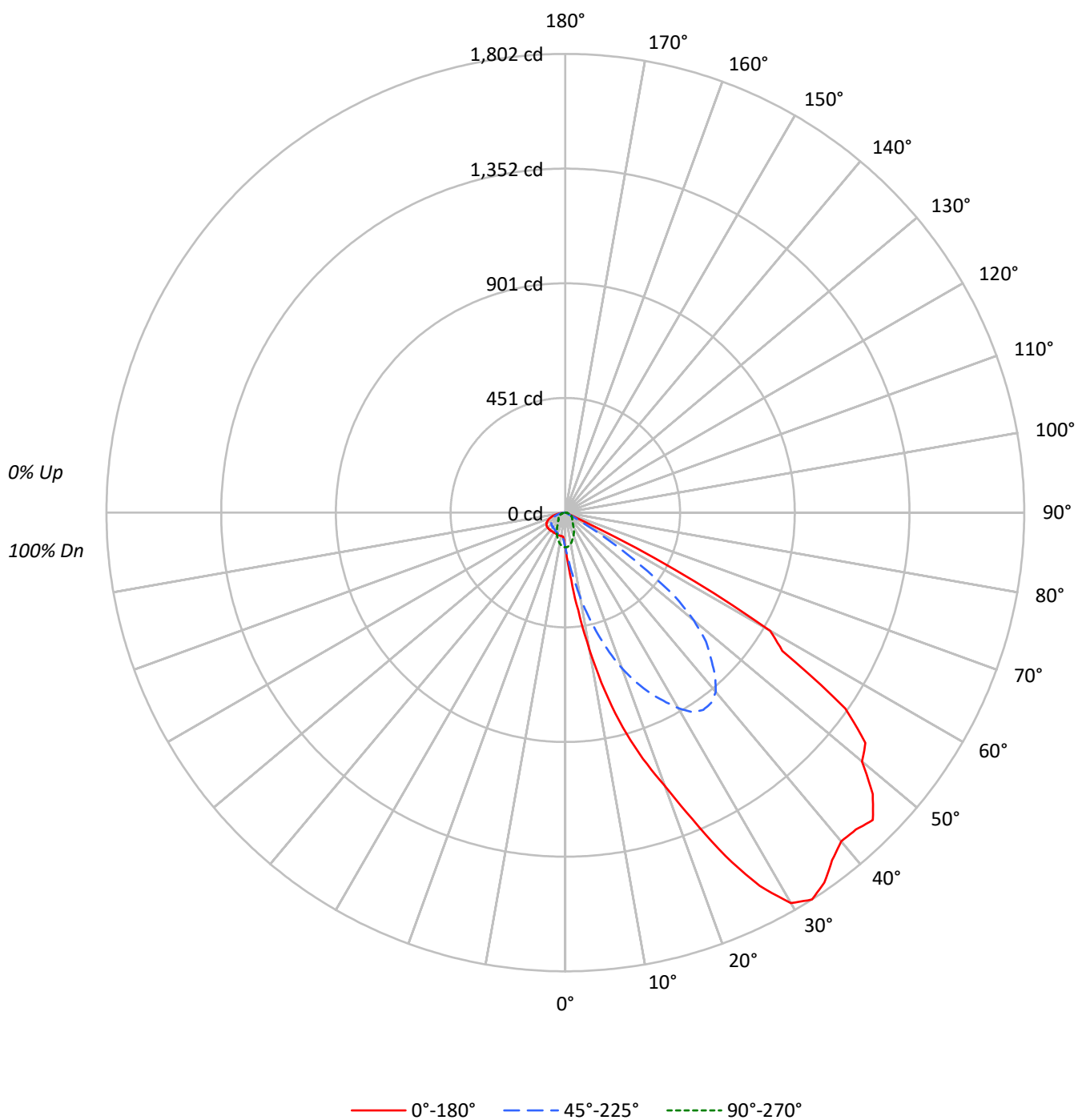
Lumens per Lamp: N/A  
Luminaire Lumens: 1372.0 lumens  
Efficiency: N/A  
Efficacy: 64.7 lumens/watt  
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.2  
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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  |  | 96  | 93  | 91  |  | 92  |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  |  | 85  | 81  | 77  |  | 82  |
| 3   | 92  | 82  | 74  | 68  | 90  | 81  | 73  | 68  | 78  | 72  | 67  |  | 75  | 70  | 65  |  | 72  |
| 4   | 84  | 72  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 56  |  | 66  | 60  | 56  |  | 64  |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  |  | 59  | 53  | 48  |  | 57  |
| 6   | 70  | 57  | 48  | 42  | 69  | 56  | 48  | 42  | 54  | 47  | 41  |  | 53  | 46  | 41  |  | 51  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  |  | 47  | 41  | 36  |  | 46  |
| 8   | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 32  | 44  | 37  | 31  |  | 43  | 36  | 31  |  | 42  |
| 9   | 55  | 42  | 33  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  |  | 39  | 32  | 27  |  | 38  |
| 10  | 52  | 38  | 30  | 25  | 50  | 38  | 30  | 25  | 37  | 29  | 24  |  | 36  | 29  | 24  |  | 35  |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 23405  | 23405  | 23405 | 23405 | 23405 |
| 5°  | 46142  | 36011  | 23062 | 17461 | 16597 |
| 10° | 95309  | 58672  | 21598 | 15914 | 16141 |
| 15° | 155886 | 88061  | 19345 | 16011 | 16457 |
| 20° | 209154 | 119312 | 17375 | 16000 | 16678 |
| 25° | 282969 | 148126 | 15164 | 15886 | 17292 |
| 30° | 352191 | 176334 | 12648 | 15869 | 18097 |
| 35° | 372870 | 198766 | 10744 | 16252 | 18880 |
| 40° | 378800 | 206655 | 9825  | 16817 | 20459 |
| 45° | 415854 | 196845 | 9426  | 17926 | 22164 |
| 50° | 407657 | 176432 | 9351  | 19050 | 24382 |
| 55° | 402950 | 108214 | 9368  | 20598 | 26963 |
| 60° | 319611 | 25765  | 9886  | 21907 | 29209 |
| 65° | 20335  | 4564   | 9658  | 22372 | 31501 |
| 70° | 4381   | 5035   | 9416  | 23213 | 33284 |
| 75° | 4126   | 4991   | 8318  | 22425 | 34003 |
| 80° | 3670   | 4959   | 8629  | 22216 | 32134 |
| 85° | 2371   | 4940   | 9880  | 19760 | 32012 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 438930 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 17.0   | 1.2       |
| 10°-20°   | 85.5   | 6.2       |
| 20°-30°   | 198.4  | 14.5      |
| 30°-40°   | 308.4  | 22.5      |
| 40°-50°   | 351.4  | 25.6      |
| 50°-60°   | 296.0  | 21.6      |
| 60°-70°   | 85.9   | 6.3       |
| 70°-80°   | 22.0   | 1.6       |
| 80°-90°   | 7.4    | 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°    | 300.9  | 21.9      |
| 0°-40°    | 609.3  | 44.4      |
| 0°-60°    | 1256.7 | 91.6      |
| 0°-90°    | 1372.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1372.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 136  | 136 | 136 | 136  | 136  |      |
| 5°  | 267  | 208 | 133 | 101  | 96   | 34   |
| 15° | 874  | 494 | 108 | 90   | 92   | 253  |
| 25° | 1489 | 780 | 80  | 84   | 91   | 692  |
| 35° | 1774 | 945 | 51  | 77   | 90   | 1102 |
| 45° | 1707 | 808 | 39  | 74   | 91   | 1284 |
| 55° | 1342 | 360 | 31  | 69   | 90   | 1129 |
| 65° | 50   | 11  | 24  | 55   | 77   | 247  |
| 75° | 6    | 8   | 12  | 34   | 51   | 7    |
| 85° | 1    | 2   | 5   | 10   | 16   | 2    |
| 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°    | 135.9  | 135.9  | 135.9  | 135.9  | 135.9  | 135.9  | 135.9  | 135.9  | 135.9 | 135.9 | 135.9 |
| 2.5°  | 183.3  | 182.1  | 182.1  | 180.8  | 179.6  | 178.3  | 174.6  | 173.4  | 165.9 | 150.9 | 135.9 |
| 5°    | 266.9  | 265.6  | 261.9  | 260.7  | 254.4  | 245.7  | 237.0  | 228.2  | 208.3 | 165.9 | 133.4 |
| 7.5°  | 386.6  | 389.1  | 386.6  | 372.9  | 364.2  | 350.5  | 324.3  | 305.6  | 265.6 | 180.8 | 128.5 |
| 10°   | 545.0  | 545.0  | 541.3  | 520.1  | 501.4  | 475.2  | 441.5  | 409.1  | 335.5 | 194.6 | 123.5 |
| 12.5° | 717.1  | 720.9  | 702.2  | 684.7  | 651.0  | 618.6  | 572.4  | 523.8  | 415.3 | 205.8 | 117.2 |
| 15°   | 874.3  | 871.8  | 853.1  | 830.6  | 795.7  | 750.8  | 702.2  | 639.8  | 493.9 | 213.3 | 108.5 |
| 17.5° | 1013.9 | 1009.0 | 992.7  | 967.8  | 925.4  | 875.5  | 813.2  | 745.8  | 574.9 | 219.5 | 102.3 |
| 20°   | 1141.2 | 1123.7 | 1105.0 | 1078.8 | 1037.6 | 985.3  | 920.4  | 844.3  | 651.0 | 219.5 | 94.8  |
| 22.5° | 1302.0 | 1284.6 | 1258.4 | 1218.5 | 1163.6 | 1098.8 | 1022.7 | 936.6  | 718.4 | 214.5 | 87.3  |
| 25°   | 1489.1 | 1475.4 | 1430.5 | 1379.4 | 1308.3 | 1231.0 | 1142.4 | 1026.4 | 779.5 | 207.0 | 79.8  |
| 27.5° | 1652.5 | 1637.5 | 1592.6 | 1517.8 | 1431.7 | 1339.5 | 1245.9 | 1127.4 | 833.1 | 193.3 | 71.1  |
| 30°   | 1771.0 | 1752.3 | 1717.3 | 1646.3 | 1541.5 | 1429.3 | 1318.3 | 1204.8 | 886.7 | 177.1 | 63.6  |
| 32.5° | 1802.2 | 1799.7 | 1773.5 | 1721.1 | 1627.6 | 1504.1 | 1371.9 | 1248.4 | 929.1 | 155.9 | 57.4  |
| 35°   | 1773.5 | 1777.2 | 1772.2 | 1746.0 | 1677.4 | 1556.5 | 1406.8 | 1272.1 | 945.4 | 134.7 | 51.1  |
| 37.5° | 1721.1 | 1726.1 | 1734.8 | 1738.5 | 1694.9 | 1587.6 | 1426.8 | 1282.1 | 941.6 | 113.5 | 47.4  |
| 40°   | 1684.9 | 1682.4 | 1682.4 | 1707.4 | 1698.6 | 1601.4 | 1429.3 | 1274.6 | 919.2 | 91.0  | 43.7  |
| 42.5° | 1688.7 | 1661.2 | 1642.5 | 1682.4 | 1694.9 | 1595.1 | 1413.0 | 1254.6 | 870.5 | 69.8  | 39.9  |
| 45°   | 1707.4 | 1648.8 | 1616.3 | 1667.5 | 1687.4 | 1573.9 | 1383.1 | 1224.7 | 808.2 | 48.6  | 38.7  |
| 47.5° | 1637.5 | 1598.9 | 1593.9 | 1666.2 | 1673.7 | 1537.8 | 1337.0 | 1177.3 | 748.3 | 33.7  | 36.2  |
| 50°   | 1521.5 | 1515.3 | 1541.5 | 1616.3 | 1617.6 | 1477.9 | 1284.6 | 1091.3 | 658.5 | 23.7  | 34.9  |
| 52.5° | 1485.4 | 1489.1 | 1512.8 | 1551.5 | 1515.3 | 1376.9 | 1189.8 | 1018.9 | 545.0 | 18.7  | 33.7  |
| 55°   | 1342.0 | 1348.2 | 1370.6 | 1394.3 | 1368.1 | 1253.4 | 1075.1 | 931.6  | 360.4 | 17.5  | 31.2  |
| 57.5° | 1010.2 | 1026.4 | 1067.6 | 1088.8 | 1091.3 | 1021.4 | 974.0  | 803.2  | 203.3 | 17.5  | 29.9  |
| 60°   | 927.9  | 906.7  | 888.0  | 844.3  | 804.4  | 795.7  | 800.7  | 602.4  | 74.8  | 16.2  | 28.7  |
| 62.5° | 485.1  | 475.2  | 503.9  | 522.6  | 527.6  | 555.0  | 518.8  | 318.0  | 16.2  | 16.2  | 26.2  |
| 65°   | 49.9   | 49.9   | 61.1   | 81.1   | 134.7  | 179.6  | 170.9  | 92.3   | 11.2  | 15.0  | 23.7  |
| 67.5° | 15.0   | 15.0   | 15.0   | 17.5   | 22.4   | 22.4   | 18.7   | 13.7   | 11.2  | 13.7  | 21.2  |
| 70°   | 8.7    | 8.7    | 8.7    | 8.7    | 8.7    | 8.7    | 10.0   | 8.7    | 10.0  | 12.5  | 18.7  |
| 72.5° | 7.5    | 7.5    | 7.5    | 7.5    | 8.7    | 8.7    | 8.7    | 8.7    | 8.7   | 11.2  | 16.2  |
| 75°   | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 7.5    | 7.5   | 8.7   | 12.5  |
| 77.5° | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 6.2    | 6.2    | 6.2   | 7.5   | 10.0  |
| 80°   | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    | 5.0    | 5.0    | 5.0    | 5.0   | 6.2   | 8.7   |
| 82.5° | 2.5    | 2.5    | 2.5    | 2.5    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7   | 5.0   | 6.2   |
| 85°   | 1.2    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5   | 3.7   | 5.0   |
| 87.5° | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 2.5   | 2.5   | 3.7   |
| 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°    | 135.9  | 135.9 | 135.9  | 135.9 |
| 2.5°  | 123.5  | 114.7 | 109.8  | 107.3 |
| 5°    | 112.2  | 101.0 | 97.3   | 96.0  |
| 7.5°  | 102.3  | 94.8  | 93.5   | 93.5  |
| 10°   | 96.0   | 91.0  | 92.3   | 92.3  |
| 12.5° | 92.3   | 91.0  | 92.3   | 93.5  |
| 15°   | 88.5   | 89.8  | 92.3   | 92.3  |
| 17.5° | 86.1   | 88.5  | 91.0   | 92.3  |
| 20°   | 82.3   | 87.3  | 91.0   | 91.0  |
| 22.5° | 79.8   | 86.1  | 89.8   | 91.0  |
| 25°   | 77.3   | 83.6  | 88.5   | 91.0  |
| 27.5° | 73.6   | 82.3  | 88.5   | 89.8  |
| 30°   | 69.8   | 79.8  | 87.3   | 91.0  |
| 32.5° | 66.1   | 78.6  | 87.3   | 89.8  |
| 35°   | 63.6   | 77.3  | 87.3   | 89.8  |
| 37.5° | 61.1   | 76.1  | 87.3   | 91.0  |
| 40°   | 59.9   | 74.8  | 86.1   | 91.0  |
| 42.5° | 57.4   | 74.8  | 86.1   | 91.0  |
| 45°   | 56.1   | 73.6  | 86.1   | 91.0  |
| 47.5° | 54.9   | 72.3  | 86.1   | 91.0  |
| 50°   | 52.4   | 71.1  | 84.8   | 91.0  |
| 52.5° | 51.1   | 69.8  | 84.8   | 91.0  |
| 55°   | 48.6   | 68.6  | 83.6   | 89.8  |
| 57.5° | 47.4   | 66.1  | 82.3   | 87.3  |
| 60°   | 44.9   | 63.6  | 79.8   | 84.8  |
| 62.5° | 41.2   | 59.9  | 76.1   | 82.3  |
| 65°   | 37.4   | 54.9  | 72.3   | 77.3  |
| 67.5° | 33.7   | 51.1  | 67.3   | 72.3  |
| 70°   | 29.9   | 46.1  | 61.1   | 66.1  |
| 72.5° | 26.2   | 39.9  | 54.9   | 58.6  |
| 75°   | 22.4   | 33.7  | 46.1   | 51.1  |
| 77.5° | 17.5   | 27.4  | 38.7   | 42.4  |
| 80°   | 13.7   | 22.4  | 29.9   | 32.4  |
| 82.5° | 11.2   | 16.2  | 22.4   | 23.7  |
| 85°   | 7.5    | 10.0  | 13.7   | 16.2  |
| 87.5° | 3.7    | 5.0   | 6.2    | 7.5   |
| 90°   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)