

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: P1311718

Luminaire Tested: LDSQA3D17R709040DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311718  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R709040DE010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

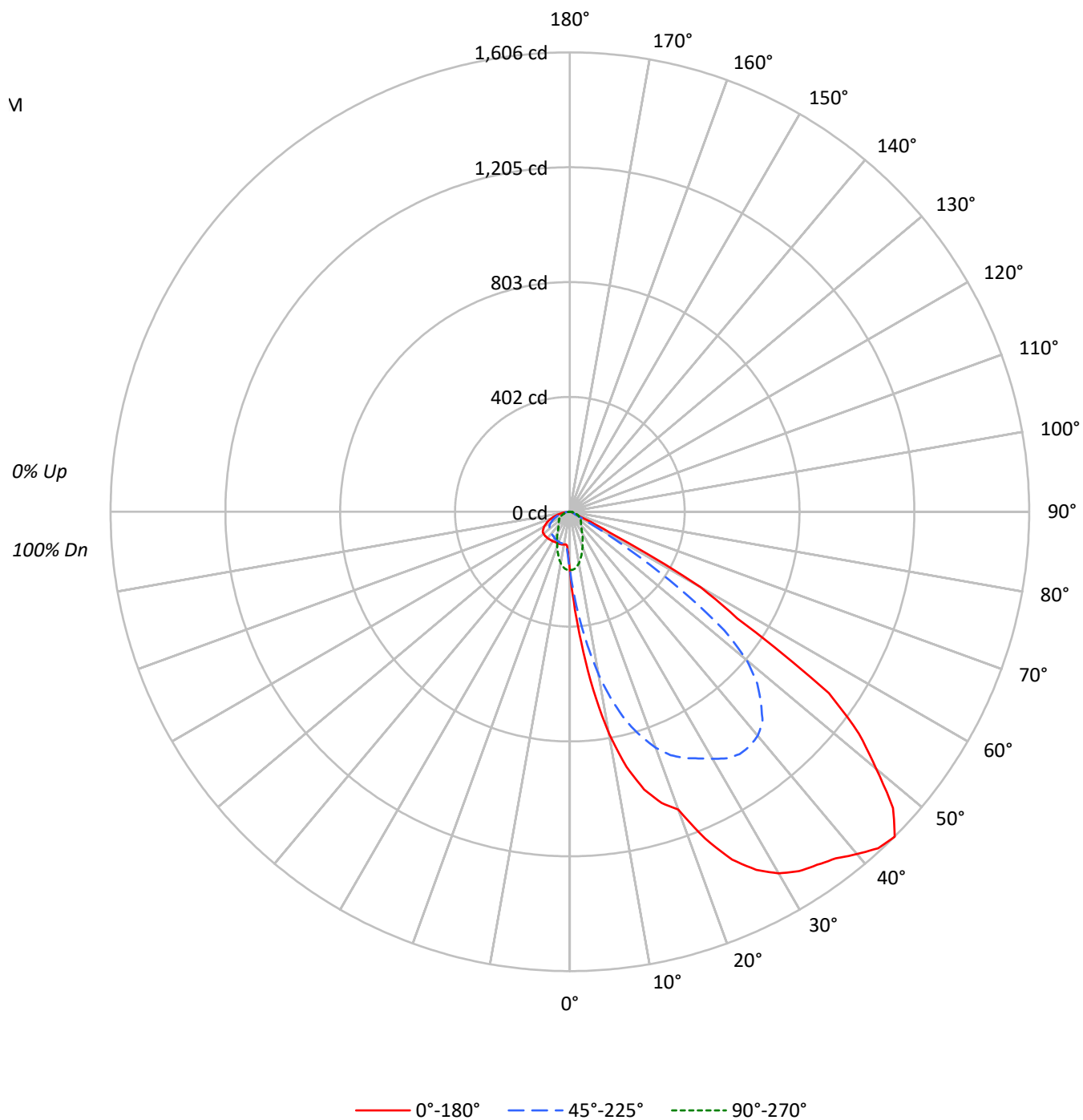
Lumens per Lamp: N/A  
Luminaire Lumens: 1388.0 lumens  
Efficiency: N/A  
Efficacy: 65.5 lumens/watt  
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  | 30  | 10  | 0   |  |  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |  |  |
| 1   | 110 | 106 | 103 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 87  |  |  |
| 2   | 101 | 94  | 88  | 83  | 99  | 92  | 87  | 82  | 89  | 84  | 80  | 86  | 82  | 78  | 83  | 79  | 77  | 75  |  |  |
| 3   | 93  | 83  | 76  | 70  | 90  | 82  | 75  | 69  | 79  | 73  | 68  | 76  | 71  | 67  | 74  | 69  | 66  | 64  |  |  |
| 4   | 85  | 74  | 66  | 59  | 83  | 72  | 65  | 59  | 70  | 63  | 58  | 68  | 62  | 57  | 66  | 61  | 57  | 54  |  |  |
| 5   | 78  | 66  | 57  | 51  | 76  | 65  | 57  | 51  | 63  | 55  | 50  | 61  | 54  | 49  | 59  | 53  | 49  | 47  |  |  |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 41  |  |  |
| 7   | 66  | 53  | 44  | 38  | 65  | 52  | 44  | 38  | 51  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 37  | 35  |  |  |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 33  | 45  | 38  | 33  | 44  | 38  | 33  | 31  |  |  |
| 9   | 57  | 44  | 35  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 29  | 28  |  |  |
| 10  | 53  | 40  | 32  | 27  | 52  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 26  | 37  | 31  | 26  | 25  |  |  |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 34823  | 34823  | 34823 | 34823 | 34823 |
| 5°  | 79248  | 63447  | 34472 | 21783 | 20348 |
| 10° | 137315 | 100748 | 31968 | 19866 | 20338 |
| 15° | 179261 | 134561 | 27904 | 20255 | 20986 |
| 20° | 203033 | 160916 | 23862 | 20564 | 21828 |
| 25° | 254997 | 180525 | 19991 | 20789 | 22366 |
| 30° | 290264 | 198289 | 17083 | 21199 | 23685 |
| 35° | 316776 | 217498 | 14843 | 21550 | 25040 |
| 40° | 351192 | 229767 | 13692 | 22415 | 27091 |
| 45° | 391254 | 230018 | 13493 | 23601 | 29349 |
| 50° | 374755 | 216301 | 13370 | 24864 | 31911 |
| 55° | 331818 | 140132 | 13722 | 26183 | 34500 |
| 60° | 181729 | 30036  | 13847 | 26695 | 35788 |
| 65° | 13000  | 7335   | 13529 | 26529 | 36106 |
| 70° | 6294   | 6949   | 12538 | 25127 | 34845 |
| 75° | 5523   | 7386   | 11978 | 23955 | 32273 |
| 80° | 5455   | 6843   | 11009 | 22018 | 30250 |
| 85° | 5533   | 8299   | 10868 | 19168 | 27269 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle:  $45^\circ$

Luminance: 391254 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 26.4   | 1.9       |
| 10°-20°   | 112.8  | 8.1       |
| 20°-30°   | 216.4  | 15.6      |
| 30°-40°   | 306.0  | 22.0      |
| 40°-50°   | 346.2  | 24.9      |
| 50°-60°   | 274.2  | 19.8      |
| 60°-70°   | 73.9   | 5.3       |
| 70°-80°   | 24.5   | 1.8       |
| 80°-90°   | 7.5    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 355.6  | 25.6      |
| 0°-40°    | 661.6  | 47.7      |
| 0°-60°    | 1282.0 | 92.4      |
| 0°-90°    | 1388.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1388.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 202  | 202  | 202 | 202  | 202  |      |
| 5°  | 458  | 367  | 199 | 126  | 118  | 54   |
| 15° | 1005 | 755  | 156 | 114  | 118  | 283  |
| 25° | 1342 | 950  | 105 | 109  | 118  | 615  |
| 35° | 1507 | 1034 | 71  | 102  | 119  | 949  |
| 45° | 1606 | 944  | 55  | 97   | 120  | 1202 |
| 55° | 1105 | 467  | 46  | 87   | 115  | 897  |
| 65° | 32   | 18   | 33  | 65   | 89   | 115  |
| 75° | 8    | 11   | 18  | 36   | 48   | 9    |
| 85° | 3    | 4    | 6   | 10   | 14   | 3    |
| 90° | 0    | 0    | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 45°    | 67.5° | 90°   | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|
| 0°    | 202.2  | 202.2  | 202.2  | 202.2  | 202.2  | 202.2  | 202.2  | 202.2  | 202.2 | 202.2 | 202.2  |
| 2.5°  | 314.4  | 314.4  | 313.0  | 307.4  | 304.7  | 297.7  | 292.2  | 277.0  | 239.6 | 203.6 | 174.5  |
| 5°    | 458.4  | 465.3  | 455.6  | 454.2  | 445.9  | 433.4  | 425.1  | 367.0  | 277.0 | 199.4 | 149.6  |
| 7.5°  | 628.7  | 631.5  | 628.7  | 614.9  | 602.4  | 581.6  | 562.2  | 470.8  | 314.4 | 192.5 | 131.6  |
| 10°   | 785.2  | 781.0  | 772.7  | 763.0  | 745.0  | 722.9  | 689.6  | 576.1  | 350.4 | 182.8 | 120.5  |
| 12.5° | 912.6  | 911.2  | 901.5  | 891.8  | 869.7  | 840.6  | 807.3  | 671.6  | 380.8 | 170.3 | 114.9  |
| 15°   | 1005.4 | 1005.4 | 995.7  | 984.6  | 963.8  | 940.3  | 902.9  | 754.7  | 405.7 | 156.5 | 109.4  |
| 17.5° | 1067.7 | 1064.9 | 1058.0 | 1049.7 | 1033.1 | 1009.5 | 980.4  | 821.2  | 422.4 | 142.6 | 108.0  |
| 20°   | 1107.8 | 1106.5 | 1100.9 | 1088.5 | 1074.6 | 1056.6 | 1030.3 | 878.0  | 429.3 | 130.2 | 106.6  |
| 22.5° | 1236.6 | 1225.6 | 1204.8 | 1178.5 | 1145.2 | 1102.3 | 1066.3 | 920.9  | 426.5 | 116.3 | 103.9  |
| 25°   | 1341.9 | 1337.7 | 1315.6 | 1283.7 | 1239.4 | 1184.0 | 1124.5 | 950.0  | 412.7 | 105.2 | 101.1  |
| 27.5° | 1411.1 | 1404.2 | 1383.4 | 1348.8 | 1301.7 | 1247.7 | 1192.3 | 972.1  | 393.3 | 95.6  | 96.9   |
| 30°   | 1459.6 | 1455.4 | 1434.7 | 1395.9 | 1347.4 | 1287.9 | 1231.1 | 997.1  | 367.0 | 85.9  | 92.8   |
| 32.5° | 1490.1 | 1485.9 | 1465.1 | 1430.5 | 1383.4 | 1321.1 | 1256.0 | 1022.0 | 335.1 | 77.5  | 88.6   |
| 35°   | 1506.7 | 1502.5 | 1479.0 | 1448.5 | 1404.2 | 1343.3 | 1274.0 | 1034.5 | 296.3 | 70.6  | 84.5   |
| 37.5° | 1527.4 | 1519.1 | 1487.3 | 1449.9 | 1405.6 | 1348.8 | 1279.6 | 1033.1 | 257.6 | 65.1  | 81.7   |
| 40°   | 1562.1 | 1539.9 | 1494.2 | 1444.4 | 1398.7 | 1341.9 | 1275.4 | 1022.0 | 214.6 | 60.9  | 78.9   |
| 42.5° | 1595.3 | 1563.5 | 1495.6 | 1436.0 | 1384.8 | 1329.4 | 1260.2 | 997.1  | 167.6 | 58.2  | 77.5   |
| 45°   | 1606.4 | 1559.3 | 1476.2 | 1416.7 | 1368.2 | 1311.4 | 1239.4 | 944.4  | 113.6 | 55.4  | 74.8   |
| 47.5° | 1533.0 | 1498.4 | 1429.1 | 1384.8 | 1339.1 | 1283.7 | 1208.9 | 889.0  | 65.1  | 52.6  | 72.0   |
| 50°   | 1398.7 | 1376.5 | 1337.7 | 1310.0 | 1285.1 | 1246.3 | 1172.9 | 807.3  | 38.8  | 49.9  | 69.2   |
| 52.5° | 1274.0 | 1267.1 | 1239.4 | 1217.2 | 1203.4 | 1185.4 | 1118.9 | 681.3  | 31.9  | 48.5  | 66.5   |
| 55°   | 1105.1 | 1082.9 | 1076.0 | 1067.7 | 1096.8 | 1095.4 | 1005.4 | 466.7  | 30.5  | 45.7  | 63.7   |
| 57.5° | 693.8  | 703.5  | 739.5  | 806.0  | 884.9  | 930.6  | 927.8  | 249.3  | 29.1  | 42.9  | 59.5   |
| 60°   | 527.6  | 526.2  | 537.3  | 565.0  | 623.2  | 688.3  | 749.2  | 87.2   | 27.7  | 40.2  | 56.8   |
| 62.5° | 157.9  | 162.0  | 195.3  | 286.7  | 343.4  | 423.8  | 386.4  | 20.8   | 26.3  | 36.0  | 51.2   |
| 65°   | 31.9   | 33.2   | 33.2   | 37.4   | 45.7   | 69.2   | 84.5   | 18.0   | 24.9  | 33.2  | 47.1   |
| 67.5° | 13.8   | 13.8   | 13.8   | 15.2   | 15.2   | 18.0   | 15.2   | 16.6   | 22.2  | 29.1  | 41.5   |
| 70°   | 12.5   | 12.5   | 12.5   | 12.5   | 12.5   | 12.5   | 13.8   | 13.8   | 19.4  | 24.9  | 36.0   |
| 72.5° | 9.7    | 9.7    | 9.7    | 11.1   | 11.1   | 11.1   | 11.1   | 12.5   | 16.6  | 20.8  | 30.5   |
| 75°   | 8.3    | 8.3    | 8.3    | 8.3    | 9.7    | 9.7    | 9.7    | 11.1   | 13.8  | 18.0  | 24.9   |
| 77.5° | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 8.3    | 8.3    | 8.3    | 11.1  | 13.8  | 20.8   |
| 80°   | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 6.9    | 8.3   | 11.1  | 15.2   |
| 82.5° | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 5.5    | 6.9   | 8.3   | 11.1   |
| 85°   | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 4.2    | 4.2   | 5.5   | 6.9    |
| 87.5° | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 2.8    | 2.8   | 2.8   | 4.2    |
| 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):**

|       | 135°  | 157.5° | 180°  |
|-------|-------|--------|-------|
| 0°    | 202.2 | 202.2  | 202.2 |
| 2.5°  | 153.7 | 145.4  | 141.3 |
| 5°    | 126.0 | 119.1  | 117.7 |
| 7.5°  | 116.3 | 114.9  | 114.9 |
| 10°   | 113.6 | 114.9  | 116.3 |
| 12.5° | 113.6 | 116.3  | 117.7 |
| 15°   | 113.6 | 116.3  | 117.7 |
| 17.5° | 113.6 | 116.3  | 117.7 |
| 20°   | 112.2 | 116.3  | 119.1 |
| 22.5° | 110.8 | 116.3  | 117.7 |
| 25°   | 109.4 | 116.3  | 117.7 |
| 27.5° | 108.0 | 114.9  | 117.7 |
| 30°   | 106.6 | 114.9  | 119.1 |
| 32.5° | 103.9 | 114.9  | 119.1 |
| 35°   | 102.5 | 114.9  | 119.1 |
| 37.5° | 101.1 | 114.9  | 120.5 |
| 40°   | 99.7  | 114.9  | 120.5 |
| 42.5° | 98.3  | 114.9  | 120.5 |
| 45°   | 96.9  | 113.6  | 120.5 |
| 47.5° | 94.2  | 113.6  | 120.5 |
| 50°   | 92.8  | 112.2  | 119.1 |
| 52.5° | 90.0  | 110.8  | 119.1 |
| 55°   | 87.2  | 108.0  | 114.9 |
| 57.5° | 83.1  | 103.9  | 109.4 |
| 60°   | 77.5  | 98.3   | 103.9 |
| 62.5° | 70.6  | 91.4   | 95.6  |
| 65°   | 65.1  | 83.1   | 88.6  |
| 67.5° | 56.8  | 73.4   | 78.9  |
| 70°   | 49.9  | 63.7   | 69.2  |
| 72.5° | 42.9  | 54.0   | 59.5  |
| 75°   | 36.0  | 44.3   | 48.5  |
| 77.5° | 27.7  | 36.0   | 38.8  |
| 80°   | 22.2  | 27.7   | 30.5  |
| 82.5° | 15.2  | 19.4   | 20.8  |
| 85°   | 9.7   | 12.5   | 13.8  |
| 87.5° | 4.2   | 5.5    | 5.5   |
| 90°   | 0.0   | 0.0    | 0.0   |

(END OF REPORT)