

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: P1310599

Luminaire Tested: LDSQA3D17R709035DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310599  
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: LDSQA3D17R709035DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 90CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

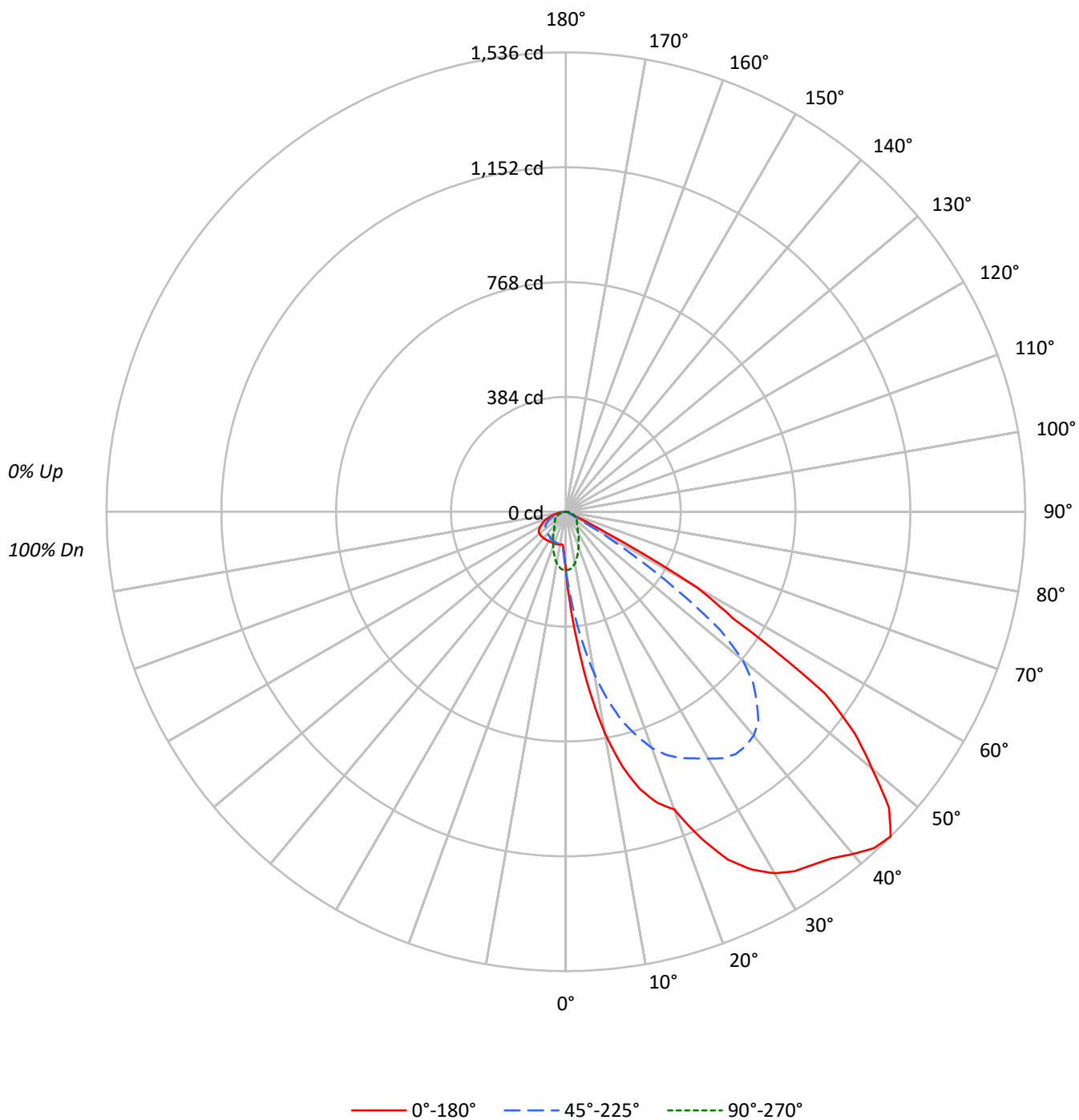
Lumens per Lamp: N/A  
Luminaire Lumens: 1327.0 lumens  
Efficiency: N/A  
Efficacy: 62.6 lumens/watt  
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |     |     | 0   |
| 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°  | 33291  | 33291  | 33291 | 33291 | 33291 |
| 5°  | 75756  | 60646  | 32951 | 20832 | 19449 |
| 10° | 131282 | 96324  | 30569 | 18992 | 19447 |
| 15° | 171380 | 128660 | 26673 | 19363 | 20059 |
| 20° | 194125 | 153841 | 22818 | 19647 | 20875 |
| 25° | 243785 | 172582 | 19117 | 19877 | 21378 |
| 30° | 277497 | 189559 | 16327 | 20264 | 22651 |
| 35° | 302858 | 207932 | 14192 | 20604 | 23947 |
| 40° | 335747 | 219672 | 13107 | 21425 | 25899 |
| 45° | 374059 | 219910 | 12909 | 22578 | 28058 |
| 50° | 358277 | 206816 | 12780 | 23765 | 30517 |
| 55° | 317226 | 133976 | 13121 | 25042 | 32999 |
| 60° | 173738 | 28727  | 13227 | 25523 | 34203 |
| 65° | 12429  | 7009   | 12959 | 25347 | 34516 |
| 70° | 5992   | 6647   | 11984 | 24019 | 33335 |
| 75° | 5257   | 7053   | 11445 | 22890 | 30809 |
| 80° | 5256   | 6546   | 10513 | 21026 | 28861 |
| 85° | 5138   | 7904   | 10473 | 18377 | 26084 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 374059 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 25.2   | 1.9       |
| 10°-20°   | 107.8  | 8.1       |
| 20°-30°   | 206.9  | 15.6      |
| 30°-40°   | 292.6  | 22.0      |
| 40°-50°   | 331.0  | 24.9      |
| 50°-60°   | 262.1  | 19.8      |
| 60°-70°   | 70.7   | 5.3       |
| 70°-80°   | 23.5   | 1.8       |
| 80°-90°   | 7.2    | 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°    | 340.0  | 25.6      |
| 0°-40°    | 632.6  | 47.7      |
| 0°-60°    | 1225.7 | 92.4      |
| 0°-90°    | 1327.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1327.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 193  | 193 | 193 | 193  | 193  |      |
| 5°  | 438  | 351 | 191 | 120  | 112  | 52   |
| 15° | 961  | 722 | 150 | 109  | 112  | 271  |
| 25° | 1283 | 908 | 101 | 105  | 112  | 588  |
| 35° | 1440 | 989 | 68  | 98   | 114  | 907  |
| 45° | 1536 | 903 | 53  | 93   | 115  | 1149 |
| 55° | 1056 | 446 | 44  | 83   | 110  | 857  |
| 65° | 30   | 17  | 32  | 62   | 85   | 110  |
| 75° | 8    | 11  | 17  | 34   | 46   | 9    |
| 85° | 3    | 4   | 5   | 9    | 13   | 3    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1310599

CATALOG NUMBER: LDSQA3D17R709035DE010 3LSQCA45R 1MB

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 45°   | 67.5° | 90°   | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|
| 0°    | 193.3  | 193.3  | 193.3  | 193.3  | 193.3  | 193.3  | 193.3  | 193.3 | 193.3 | 193.3 | 193.3  |
| 2.5°  | 300.5  | 300.5  | 299.2  | 293.9  | 291.3  | 284.6  | 279.4  | 264.8 | 229.0 | 194.6 | 166.8  |
| 5°    | 438.2  | 444.8  | 435.6  | 434.3  | 426.3  | 414.4  | 406.5  | 350.8 | 264.8 | 190.6 | 143.0  |
| 7.5°  | 601.1  | 603.7  | 601.1  | 587.8  | 575.9  | 556.1  | 537.5  | 450.1 | 300.5 | 184.0 | 125.8  |
| 10°   | 750.7  | 746.7  | 738.8  | 729.5  | 712.3  | 691.1  | 659.3  | 550.8 | 335.0 | 174.8 | 115.2  |
| 12.5° | 872.5  | 871.2  | 861.9  | 852.6  | 831.4  | 803.6  | 771.9  | 642.1 | 364.1 | 162.8 | 109.9  |
| 15°   | 961.2  | 961.2  | 951.9  | 941.3  | 921.5  | 899.0  | 863.2  | 721.6 | 387.9 | 149.6 | 104.6  |
| 17.5° | 1020.8 | 1018.1 | 1011.5 | 1003.6 | 987.7  | 965.2  | 937.4  | 785.1 | 403.8 | 136.4 | 103.3  |
| 20°   | 1059.2 | 1057.8 | 1052.5 | 1040.6 | 1027.4 | 1010.2 | 985.0  | 839.4 | 410.4 | 124.5 | 101.9  |
| 22.5° | 1182.3 | 1171.7 | 1151.8 | 1126.7 | 1094.9 | 1053.9 | 1019.4 | 880.4 | 407.8 | 111.2 | 99.3   |
| 25°   | 1282.9 | 1278.9 | 1257.8 | 1227.3 | 1184.9 | 1132.0 | 1075.0 | 908.2 | 394.5 | 100.6 | 96.6   |
| 27.5° | 1349.1 | 1342.5 | 1322.6 | 1289.5 | 1244.5 | 1192.9 | 1139.9 | 929.4 | 376.0 | 91.4  | 92.7   |
| 30°   | 1395.4 | 1391.5 | 1371.6 | 1334.5 | 1288.2 | 1231.3 | 1177.0 | 953.2 | 350.8 | 82.1  | 88.7   |
| 32.5° | 1424.6 | 1420.6 | 1400.7 | 1367.6 | 1322.6 | 1263.0 | 1200.8 | 977.1 | 320.4 | 74.1  | 84.7   |
| 35°   | 1440.5 | 1436.5 | 1414.0 | 1384.9 | 1342.5 | 1284.2 | 1218.0 | 989.0 | 283.3 | 67.5  | 80.8   |
| 37.5° | 1460.3 | 1452.4 | 1421.9 | 1386.2 | 1343.8 | 1289.5 | 1223.3 | 987.7 | 246.3 | 62.2  | 78.1   |
| 40°   | 1493.4 | 1472.2 | 1428.5 | 1380.9 | 1337.2 | 1282.9 | 1219.4 | 977.1 | 205.2 | 58.3  | 75.5   |
| 42.5° | 1525.2 | 1494.7 | 1429.9 | 1372.9 | 1323.9 | 1271.0 | 1204.8 | 953.2 | 160.2 | 55.6  | 74.1   |
| 45°   | 1535.8 | 1490.8 | 1411.3 | 1354.4 | 1308.1 | 1253.8 | 1184.9 | 902.9 | 108.6 | 53.0  | 71.5   |
| 47.5° | 1465.6 | 1432.5 | 1366.3 | 1323.9 | 1280.3 | 1227.3 | 1155.8 | 850.0 | 62.2  | 50.3  | 68.8   |
| 50°   | 1337.2 | 1316.0 | 1278.9 | 1252.5 | 1228.6 | 1191.6 | 1121.4 | 771.9 | 37.1  | 47.7  | 66.2   |
| 52.5° | 1218.0 | 1211.4 | 1184.9 | 1163.8 | 1150.5 | 1133.3 | 1069.8 | 651.4 | 30.5  | 46.3  | 63.5   |
| 55°   | 1056.5 | 1035.3 | 1028.7 | 1020.8 | 1048.6 | 1047.2 | 961.2  | 446.2 | 29.1  | 43.7  | 60.9   |
| 57.5° | 663.3  | 672.6  | 707.0  | 770.5  | 846.0  | 889.7  | 887.0  | 238.3 | 27.8  | 41.0  | 56.9   |
| 60°   | 504.4  | 503.1  | 513.7  | 540.2  | 595.8  | 658.0  | 716.3  | 83.4  | 26.5  | 38.4  | 54.3   |
| 62.5° | 150.9  | 154.9  | 186.7  | 274.1  | 328.3  | 405.1  | 369.4  | 19.9  | 25.2  | 34.4  | 49.0   |
| 65°   | 30.5   | 31.8   | 31.8   | 35.7   | 43.7   | 66.2   | 80.8   | 17.2  | 23.8  | 31.8  | 45.0   |
| 67.5° | 13.2   | 13.2   | 13.2   | 14.6   | 14.6   | 17.2   | 14.6   | 15.9  | 21.2  | 27.8  | 39.7   |
| 70°   | 11.9   | 11.9   | 11.9   | 11.9   | 11.9   | 11.9   | 13.2   | 13.2  | 18.5  | 23.8  | 34.4   |
| 72.5° | 9.3    | 9.3    | 9.3    | 10.6   | 10.6   | 10.6   | 10.6   | 11.9  | 15.9  | 19.9  | 29.1   |
| 75°   | 7.9    | 7.9    | 7.9    | 7.9    | 9.3    | 9.3    | 9.3    | 10.6  | 13.2  | 17.2  | 23.8   |
| 77.5° | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 7.9    | 7.9    | 7.9   | 10.6  | 13.2  | 19.9   |
| 80°   | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 6.6   | 7.9   | 10.6  | 14.6   |
| 82.5° | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 5.3   | 6.6   | 7.9   | 10.6   |
| 85°   | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 4.0   | 4.0   | 5.3   | 6.6    |
| 87.5° | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 2.6   | 2.6   | 2.6   | 4.0    |
| 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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CATALOG NUMBER: LDSQA3D17R709035DE010 3LSQCA45R 1MB

**CANDELA DISTRIBUTION (continued):**

|       | 135°  | 157.5° | 180°  |
|-------|-------|--------|-------|
| 0°    | 193.3 | 193.3  | 193.3 |
| 2.5°  | 147.0 | 139.0  | 135.0 |
| 5°    | 120.5 | 113.9  | 112.5 |
| 7.5°  | 111.2 | 109.9  | 109.9 |
| 10°   | 108.6 | 109.9  | 111.2 |
| 12.5° | 108.6 | 111.2  | 112.5 |
| 15°   | 108.6 | 111.2  | 112.5 |
| 17.5° | 108.6 | 111.2  | 112.5 |
| 20°   | 107.2 | 111.2  | 113.9 |
| 22.5° | 105.9 | 111.2  | 112.5 |
| 25°   | 104.6 | 111.2  | 112.5 |
| 27.5° | 103.3 | 109.9  | 112.5 |
| 30°   | 101.9 | 109.9  | 113.9 |
| 32.5° | 99.3  | 109.9  | 113.9 |
| 35°   | 98.0  | 109.9  | 113.9 |
| 37.5° | 96.6  | 109.9  | 115.2 |
| 40°   | 95.3  | 109.9  | 115.2 |
| 42.5° | 94.0  | 109.9  | 115.2 |
| 45°   | 92.7  | 108.6  | 115.2 |
| 47.5° | 90.0  | 108.6  | 115.2 |
| 50°   | 88.7  | 107.2  | 113.9 |
| 52.5° | 86.1  | 105.9  | 113.9 |
| 55°   | 83.4  | 103.3  | 109.9 |
| 57.5° | 79.4  | 99.3   | 104.6 |
| 60°   | 74.1  | 94.0   | 99.3  |
| 62.5° | 67.5  | 87.4   | 91.4  |
| 65°   | 62.2  | 79.4   | 84.7  |
| 67.5° | 54.3  | 70.2   | 75.5  |
| 70°   | 47.7  | 60.9   | 66.2  |
| 72.5° | 41.0  | 51.6   | 56.9  |
| 75°   | 34.4  | 42.4   | 46.3  |
| 77.5° | 26.5  | 34.4   | 37.1  |
| 80°   | 21.2  | 26.5   | 29.1  |
| 82.5° | 14.6  | 18.5   | 19.9  |
| 85°   | 9.3   | 11.9   | 13.2  |
| 87.5° | 4.0   | 5.3    | 5.3   |
| 90°   | 0.0   | 0.0    | 0.0   |

(END OF REPORT)