

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: P1315686

Luminaire Tested: LDSQA3D13R609735DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315686  
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: PORTFOLIO  
Catalog Number: LDSQA3D13R609735DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 97CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

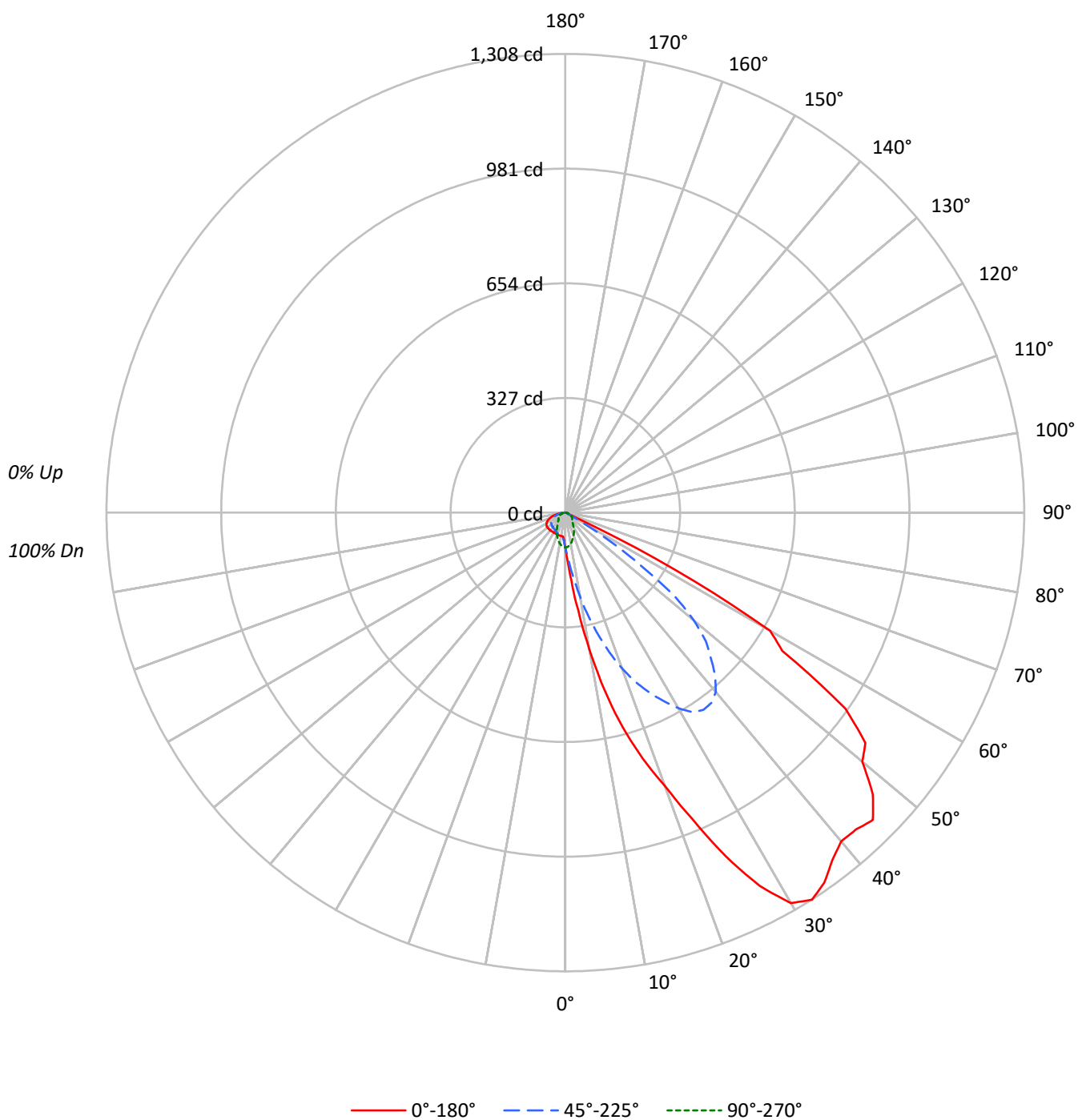
Lumens per Lamp: N/A  
Luminaire Lumens: 996.0 lumens  
Efficiency: N/A  
Efficacy: 68.2 lumens/watt  
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 16998  | 16998  | 16998 | 16998 | 16998 |
| 5°  | 33504  | 26140  | 16752 | 12672 | 12050 |
| 10° | 69182  | 42583  | 15669 | 11560 | 11717 |
| 15° | 113166 | 63920  | 14050 | 11625 | 11946 |
| 20° | 151825 | 86616  | 12609 | 11620 | 12115 |
| 25° | 205419 | 107536 | 11003 | 11535 | 12561 |
| 30° | 255662 | 128010 | 9188  | 11514 | 13145 |
| 35° | 270669 | 144291 | 7800  | 11795 | 13708 |
| 40° | 275001 | 150023 | 7127  | 12208 | 14861 |
| 45° | 301892 | 142896 | 6844  | 13006 | 16099 |
| 50° | 295956 | 128071 | 6805  | 13825 | 17710 |
| 55° | 292514 | 78578  | 6786  | 14953 | 19577 |
| 60° | 232018 | 18703  | 7164  | 15913 | 21218 |
| 65° | 14752  | 3301   | 7009  | 16219 | 22862 |
| 70° | 3172   | 3626   | 6848  | 16869 | 24170 |
| 75° | 2994   | 3593   | 6055  | 16236 | 24687 |
| 80° | 2678   | 3570   | 6248  | 16166 | 23307 |
| 85° | 1778   | 3557   | 7114  | 14227 | 23317 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 318638 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 12.3   | 1.2       |
| 10°-20°   | 62.1   | 6.2       |
| 20°-30°   | 144.0  | 14.5      |
| 30°-40°   | 223.9  | 22.5      |
| 40°-50°   | 255.1  | 25.6      |
| 50°-60°   | 214.9  | 21.6      |
| 60°-70°   | 62.3   | 6.3       |
| 70°-80°   | 16.0   | 1.6       |
| 80°-90°   | 5.4    | 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°    | 218.4  | 21.9      |
| 0°-40°    | 442.3  | 44.4      |
| 0°-60°    | 912.3  | 91.6      |
| 0°-90°    | 996.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 996.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 99   | 99  | 99  | 99   | 99   |      |
| 5°  | 194  | 151 | 97  | 73   | 70   | 25   |
| 15° | 635  | 358 | 79  | 65   | 67   | 184  |
| 25° | 1081 | 566 | 58  | 61   | 66   | 502  |
| 35° | 1287 | 686 | 37  | 56   | 65   | 800  |
| 45° | 1240 | 587 | 28  | 53   | 66   | 932  |
| 55° | 974  | 262 | 23  | 50   | 65   | 820  |
| 65° | 36   | 8   | 17  | 40   | 56   | 179  |
| 75° | 4    | 5   | 9   | 24   | 37   | 5    |
| 85° | 1    | 2   | 4   | 7    | 12   | 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°    | 98.7   | 98.7   | 98.7   | 98.7   | 98.7   | 98.7   | 98.7   | 98.7  | 98.7  | 98.7  | 98.7 |
| 2.5°  | 133.1  | 132.2  | 132.2  | 131.3  | 130.4  | 129.5  | 126.8  | 125.8 | 120.4 | 109.6 | 98.7 |
| 5°    | 193.8  | 192.8  | 190.1  | 189.2  | 184.7  | 178.4  | 172.0  | 165.7 | 151.2 | 120.4 | 96.9 |
| 7.5°  | 280.7  | 282.5  | 280.7  | 270.7  | 264.4  | 254.4  | 235.4  | 221.8 | 192.8 | 131.3 | 93.3 |
| 10°   | 395.6  | 395.6  | 392.9  | 377.5  | 364.0  | 344.9  | 320.5  | 297.0 | 243.5 | 141.2 | 89.6 |
| 12.5° | 520.6  | 523.3  | 509.7  | 497.1  | 472.6  | 449.1  | 415.6  | 380.3 | 301.5 | 149.4 | 85.1 |
| 15°   | 634.7  | 632.9  | 619.3  | 603.0  | 577.6  | 545.0  | 509.7  | 464.5 | 358.5 | 154.8 | 78.8 |
| 17.5° | 736.1  | 732.5  | 720.7  | 702.6  | 671.8  | 635.6  | 590.3  | 541.4 | 417.4 | 159.3 | 74.2 |
| 20°   | 828.4  | 815.7  | 802.2  | 783.2  | 753.3  | 715.2  | 668.2  | 612.9 | 472.6 | 159.3 | 68.8 |
| 22.5° | 945.2  | 932.5  | 913.5  | 884.6  | 844.7  | 797.6  | 742.4  | 679.9 | 521.5 | 155.7 | 63.4 |
| 25°   | 1081.0 | 1071.1 | 1038.5 | 1001.3 | 949.7  | 893.6  | 829.3  | 745.1 | 565.9 | 150.3 | 57.9 |
| 27.5° | 1199.6 | 1188.8 | 1156.2 | 1101.8 | 1039.4 | 972.4  | 904.5  | 818.5 | 604.8 | 140.3 | 51.6 |
| 30°   | 1285.6 | 1272.1 | 1246.7 | 1195.1 | 1119.0 | 1037.6 | 957.0  | 874.6 | 643.7 | 128.6 | 46.2 |
| 32.5° | 1308.3 | 1306.5 | 1287.4 | 1249.4 | 1181.5 | 1091.9 | 995.9  | 906.3 | 674.5 | 113.2 | 41.6 |
| 35°   | 1287.4 | 1290.2 | 1286.5 | 1267.5 | 1217.7 | 1129.9 | 1021.3 | 923.5 | 686.3 | 97.8  | 37.1 |
| 37.5° | 1249.4 | 1253.0 | 1259.4 | 1262.1 | 1230.4 | 1152.5 | 1035.8 | 930.7 | 683.6 | 82.4  | 34.4 |
| 40°   | 1223.2 | 1221.4 | 1221.4 | 1239.5 | 1233.1 | 1162.5 | 1037.6 | 925.3 | 667.3 | 66.1  | 31.7 |
| 42.5° | 1225.9 | 1206.0 | 1192.4 | 1221.4 | 1230.4 | 1158.0 | 1025.8 | 910.8 | 632.0 | 50.7  | 29.0 |
| 45°   | 1239.5 | 1196.9 | 1173.4 | 1210.5 | 1225.0 | 1142.6 | 1004.1 | 889.1 | 586.7 | 35.3  | 28.1 |
| 47.5° | 1188.8 | 1160.7 | 1157.1 | 1209.6 | 1215.0 | 1116.3 | 970.6  | 854.7 | 543.2 | 24.4  | 26.3 |
| 50°   | 1104.6 | 1100.0 | 1119.0 | 1173.4 | 1174.3 | 1072.9 | 932.5  | 792.2 | 478.0 | 17.2  | 25.4 |
| 52.5° | 1078.3 | 1081.0 | 1098.2 | 1126.3 | 1100.0 | 999.5  | 863.7  | 739.7 | 395.6 | 13.6  | 24.4 |
| 55°   | 974.2  | 978.7  | 995.0  | 1012.2 | 993.2  | 909.9  | 780.4  | 676.3 | 261.7 | 12.7  | 22.6 |
| 57.5° | 733.4  | 745.1  | 775.0  | 790.4  | 792.2  | 741.5  | 707.1  | 583.1 | 147.6 | 12.7  | 21.7 |
| 60°   | 673.6  | 658.2  | 644.6  | 612.9  | 584.0  | 577.6  | 581.3  | 437.3 | 54.3  | 11.8  | 20.8 |
| 62.5° | 352.2  | 344.9  | 365.8  | 379.4  | 383.0  | 402.9  | 376.6  | 230.9 | 11.8  | 11.8  | 19.0 |
| 65°   | 36.2   | 36.2   | 44.4   | 58.8   | 97.8   | 130.4  | 124.0  | 67.0  | 8.1   | 10.9  | 17.2 |
| 67.5° | 10.9   | 10.9   | 10.9   | 12.7   | 16.3   | 16.3   | 13.6   | 10.0  | 8.1   | 10.0  | 15.4 |
| 70°   | 6.3    | 6.3    | 6.3    | 6.3    | 6.3    | 6.3    | 7.2    | 6.3   | 7.2   | 9.1   | 13.6 |
| 72.5° | 5.4    | 5.4    | 5.4    | 5.4    | 6.3    | 6.3    | 6.3    | 6.3   | 6.3   | 8.1   | 11.8 |
| 75°   | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 5.4   | 5.4   | 6.3   | 9.1  |
| 77.5° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 4.5    | 4.5   | 4.5   | 5.4   | 7.2  |
| 80°   | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 3.6    | 3.6    | 3.6   | 3.6   | 4.5   | 6.3  |
| 82.5° | 1.8    | 1.8    | 1.8    | 1.8    | 2.7    | 2.7    | 2.7    | 2.7   | 2.7   | 3.6   | 4.5  |
| 85°   | 0.9    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8   | 1.8   | 2.7   | 3.6  |
| 87.5° | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9   | 1.8   | 1.8   | 2.7  |
| 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°    | 98.7   | 98.7 | 98.7   | 98.7 |
| 2.5°  | 89.6   | 83.3 | 79.7   | 77.9 |
| 5°    | 81.5   | 73.3 | 70.6   | 69.7 |
| 7.5°  | 74.2   | 68.8 | 67.9   | 67.9 |
| 10°   | 69.7   | 66.1 | 67.0   | 67.0 |
| 12.5° | 67.0   | 66.1 | 67.0   | 67.9 |
| 15°   | 64.3   | 65.2 | 67.0   | 67.0 |
| 17.5° | 62.5   | 64.3 | 66.1   | 67.0 |
| 20°   | 59.8   | 63.4 | 66.1   | 66.1 |
| 22.5° | 57.9   | 62.5 | 65.2   | 66.1 |
| 25°   | 56.1   | 60.7 | 64.3   | 66.1 |
| 27.5° | 53.4   | 59.8 | 64.3   | 65.2 |
| 30°   | 50.7   | 57.9 | 63.4   | 66.1 |
| 32.5° | 48.0   | 57.0 | 63.4   | 65.2 |
| 35°   | 46.2   | 56.1 | 63.4   | 65.2 |
| 37.5° | 44.4   | 55.2 | 63.4   | 66.1 |
| 40°   | 43.5   | 54.3 | 62.5   | 66.1 |
| 42.5° | 41.6   | 54.3 | 62.5   | 66.1 |
| 45°   | 40.7   | 53.4 | 62.5   | 66.1 |
| 47.5° | 39.8   | 52.5 | 62.5   | 66.1 |
| 50°   | 38.0   | 51.6 | 61.6   | 66.1 |
| 52.5° | 37.1   | 50.7 | 61.6   | 66.1 |
| 55°   | 35.3   | 49.8 | 60.7   | 65.2 |
| 57.5° | 34.4   | 48.0 | 59.8   | 63.4 |
| 60°   | 32.6   | 46.2 | 57.9   | 61.6 |
| 62.5° | 29.9   | 43.5 | 55.2   | 59.8 |
| 65°   | 27.2   | 39.8 | 52.5   | 56.1 |
| 67.5° | 24.4   | 37.1 | 48.9   | 52.5 |
| 70°   | 21.7   | 33.5 | 44.4   | 48.0 |
| 72.5° | 19.0   | 29.0 | 39.8   | 42.6 |
| 75°   | 16.3   | 24.4 | 33.5   | 37.1 |
| 77.5° | 12.7   | 19.9 | 28.1   | 30.8 |
| 80°   | 10.0   | 16.3 | 21.7   | 23.5 |
| 82.5° | 8.1    | 11.8 | 16.3   | 17.2 |
| 85°   | 5.4    | 7.2  | 10.0   | 11.8 |
| 87.5° | 2.7    | 3.6  | 4.5    | 5.4  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)