

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: P1315031

Luminaire Tested: LDSQA3D20R709730D010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315031  
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: LDSQA3D20R709730D010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 97CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

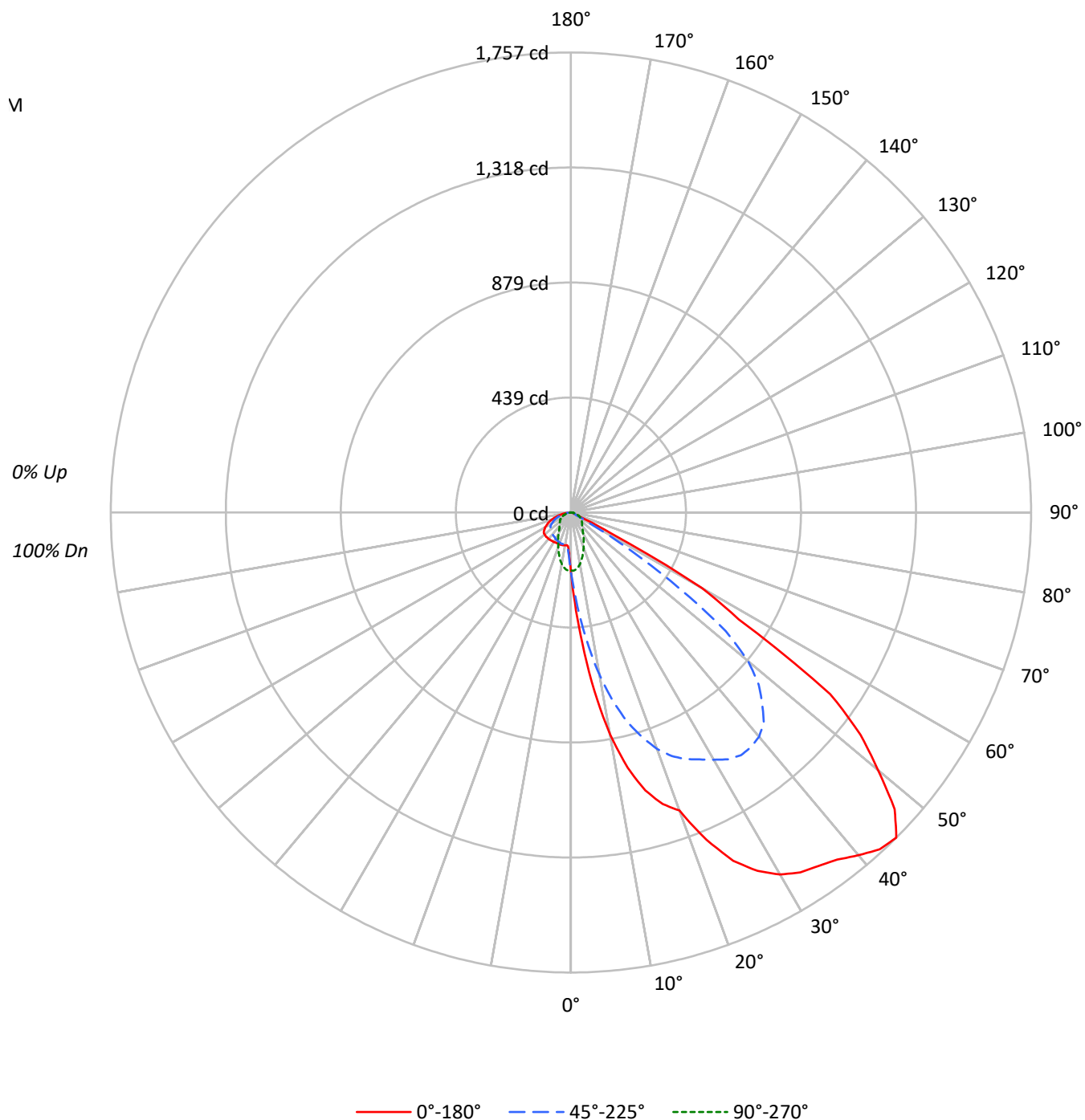
Lumens per Lamp: N/A  
Luminaire Lumens: 1518.0 lumens  
Efficiency: N/A  
Efficacy: 52.7 lumens/watt  
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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°  | 38078  | 38078  | 38078 | 38078 | 38078 |
| 5°  | 86665  | 69377  | 37705 | 23823 | 22250 |
| 10° | 150169 | 110174 | 34958 | 21720 | 22245 |
| 15° | 196039 | 147167 | 30507 | 22145 | 22947 |
| 20° | 222057 | 175981 | 26098 | 22488 | 23862 |
| 25° | 278883 | 197438 | 21872 | 22727 | 24456 |
| 30° | 317449 | 216843 | 18673 | 23188 | 25892 |
| 35° | 346442 | 237850 | 16231 | 23568 | 27374 |
| 40° | 384084 | 251282 | 14973 | 24505 | 29631 |
| 45° | 427885 | 251573 | 14760 | 25817 | 32101 |
| 50° | 409854 | 236583 | 14602 | 27195 | 34885 |
| 55° | 362895 | 153253 | 15013 | 28645 | 37743 |
| 60° | 198745 | 32860  | 15121 | 29209 | 39129 |
| 65° | 14181  | 8028   | 14793 | 29015 | 39488 |
| 70° | 6848   | 7604   | 13747 | 27443 | 38118 |
| 75° | 6055   | 8052   | 13109 | 26217 | 35267 |
| 80° | 6050   | 7538   | 12001 | 24001 | 33027 |
| 85° | 5928   | 8892   | 12054 | 20946 | 29838 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle:  $45^\circ$

Luminance: 427885 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 28.8   | 1.9       |
| 10°-20°   | 123.4  | 8.1       |
| 20°-30°   | 236.7  | 15.6      |
| 30°-40°   | 334.7  | 22.0      |
| 40°-50°   | 378.6  | 24.9      |
| 50°-60°   | 299.9  | 19.8      |
| 60°-70°   | 80.8   | 5.3       |
| 70°-80°   | 26.8   | 1.8       |
| 80°-90°   | 8.2    | 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°    | 388.9  | 25.6      |
| 0°-40°    | 723.6  | 47.7      |
| 0°-60°    | 1402.1 | 92.4      |
| 0°-90°    | 1518.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1518.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 221  | 221  | 221 | 221  | 221  |      |
| 5°  | 501  | 401  | 218 | 138  | 129  | 59   |
| 15° | 1100 | 825  | 171 | 124  | 129  | 310  |
| 25° | 1468 | 1039 | 115 | 120  | 129  | 673  |
| 35° | 1648 | 1131 | 77  | 112  | 130  | 1038 |
| 45° | 1757 | 1033 | 61  | 106  | 132  | 1314 |
| 55° | 1209 | 510  | 50  | 95   | 126  | 981  |
| 65° | 35   | 20   | 36  | 71   | 97   | 126  |
| 75° | 9    | 12   | 20  | 39   | 53   | 10   |
| 85° | 3    | 4    | 6   | 11   | 15   | 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°    | 221.1  | 221.1  | 221.1  | 221.1  | 221.1  | 221.1  | 221.1  | 221.1  | 221.1 | 221.1 | 221.1  |
| 2.5°  | 343.8  | 343.8  | 342.3  | 336.2  | 333.2  | 325.6  | 319.6  | 302.9  | 262.0 | 222.6 | 190.8  |
| 5°    | 501.3  | 508.9  | 498.3  | 496.8  | 487.7  | 474.0  | 465.0  | 401.3  | 302.9 | 218.1 | 163.6  |
| 7.5°  | 687.6  | 690.6  | 687.6  | 672.4  | 658.8  | 636.1  | 614.9  | 514.9  | 343.8 | 210.5 | 143.9  |
| 10°   | 858.7  | 854.2  | 845.1  | 834.5  | 814.8  | 790.6  | 754.2  | 630.0  | 383.2 | 199.9 | 131.8  |
| 12.5° | 998.1  | 996.5  | 985.9  | 975.3  | 951.1  | 919.3  | 883.0  | 734.5  | 416.5 | 186.3 | 125.7  |
| 15°   | 1099.5 | 1099.5 | 1088.9 | 1076.8 | 1054.1 | 1028.4 | 987.5  | 825.4  | 443.8 | 171.1 | 119.6  |
| 17.5° | 1167.7 | 1164.7 | 1157.1 | 1148.0 | 1129.8 | 1104.1 | 1072.3 | 898.1  | 461.9 | 156.0 | 118.1  |
| 20°   | 1211.6 | 1210.1 | 1204.0 | 1190.4 | 1175.3 | 1155.6 | 1126.8 | 960.2  | 469.5 | 142.4 | 116.6  |
| 22.5° | 1352.5 | 1340.3 | 1317.6 | 1288.8 | 1252.5 | 1205.6 | 1166.2 | 1007.1 | 466.5 | 127.2 | 113.6  |
| 25°   | 1467.6 | 1463.0 | 1438.8 | 1404.0 | 1355.5 | 1294.9 | 1229.8 | 1039.0 | 451.3 | 115.1 | 110.6  |
| 27.5° | 1543.3 | 1535.7 | 1513.0 | 1475.1 | 1423.6 | 1364.6 | 1304.0 | 1063.2 | 430.1 | 104.5 | 106.0  |
| 30°   | 1596.3 | 1591.8 | 1569.0 | 1526.6 | 1473.6 | 1408.5 | 1346.4 | 1090.4 | 401.3 | 93.9  | 101.5  |
| 32.5° | 1629.6 | 1625.1 | 1602.4 | 1564.5 | 1513.0 | 1444.8 | 1373.7 | 1117.7 | 366.5 | 84.8  | 96.9   |
| 35°   | 1647.8 | 1643.2 | 1617.5 | 1584.2 | 1535.7 | 1469.1 | 1393.3 | 1131.3 | 324.1 | 77.2  | 92.4   |
| 37.5° | 1670.5 | 1661.4 | 1626.6 | 1585.7 | 1537.2 | 1475.1 | 1399.4 | 1129.8 | 281.7 | 71.2  | 89.4   |
| 40°   | 1708.4 | 1684.1 | 1634.2 | 1579.6 | 1529.7 | 1467.6 | 1394.9 | 1117.7 | 234.7 | 66.6  | 86.3   |
| 42.5° | 1744.7 | 1709.9 | 1635.7 | 1570.5 | 1514.5 | 1453.9 | 1378.2 | 1090.4 | 183.3 | 63.6  | 84.8   |
| 45°   | 1756.8 | 1705.3 | 1614.5 | 1549.3 | 1496.3 | 1434.2 | 1355.5 | 1032.9 | 124.2 | 60.6  | 81.8   |
| 47.5° | 1676.6 | 1638.7 | 1563.0 | 1514.5 | 1464.5 | 1404.0 | 1322.2 | 972.3  | 71.2  | 57.6  | 78.8   |
| 50°   | 1529.7 | 1505.4 | 1463.0 | 1432.7 | 1405.5 | 1363.1 | 1282.8 | 883.0  | 42.4  | 54.5  | 75.7   |
| 52.5° | 1393.3 | 1385.8 | 1355.5 | 1331.3 | 1316.1 | 1296.4 | 1223.7 | 745.1  | 34.8  | 53.0  | 72.7   |
| 55°   | 1208.6 | 1184.3 | 1176.8 | 1167.7 | 1199.5 | 1198.0 | 1099.5 | 510.4  | 33.3  | 50.0  | 69.7   |
| 57.5° | 758.8  | 769.4  | 808.7  | 881.4  | 967.8  | 1017.8 | 1014.7 | 272.6  | 31.8  | 46.9  | 65.1   |
| 60°   | 577.0  | 575.5  | 587.6  | 617.9  | 681.5  | 752.7  | 819.4  | 95.4   | 30.3  | 43.9  | 62.1   |
| 62.5° | 172.7  | 177.2  | 213.5  | 313.5  | 375.6  | 463.4  | 422.5  | 22.7   | 28.8  | 39.4  | 56.0   |
| 65°   | 34.8   | 36.3   | 36.3   | 40.9   | 50.0   | 75.7   | 92.4   | 19.7   | 27.3  | 36.3  | 51.5   |
| 67.5° | 15.1   | 15.1   | 15.1   | 16.7   | 16.7   | 19.7   | 16.7   | 18.2   | 24.2  | 31.8  | 45.4   |
| 70°   | 13.6   | 13.6   | 13.6   | 13.6   | 13.6   | 13.6   | 15.1   | 15.1   | 21.2  | 27.3  | 39.4   |
| 72.5° | 10.6   | 10.6   | 10.6   | 12.1   | 12.1   | 12.1   | 12.1   | 13.6   | 18.2  | 22.7  | 33.3   |
| 75°   | 9.1    | 9.1    | 9.1    | 9.1    | 10.6   | 10.6   | 10.6   | 12.1   | 15.1  | 19.7  | 27.3   |
| 77.5° | 7.6    | 7.6    | 7.6    | 7.6    | 7.6    | 9.1    | 9.1    | 9.1    | 12.1  | 15.1  | 22.7   |
| 80°   | 6.1    | 6.1    | 6.1    | 6.1    | 6.1    | 6.1    | 6.1    | 7.6    | 9.1   | 12.1  | 16.7   |
| 82.5° | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 4.5    | 6.1    | 7.6   | 9.1   | 12.1   |
| 85°   | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 4.5    | 4.5   | 6.1   | 7.6    |
| 87.5° | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 3.0    | 3.0   | 3.0   | 4.5    |
| 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):**

|       | 135°  | 157.5° | 180°  |
|-------|-------|--------|-------|
| 0°    | 221.1 | 221.1  | 221.1 |
| 2.5°  | 168.1 | 159.0  | 154.5 |
| 5°    | 137.8 | 130.2  | 128.7 |
| 7.5°  | 127.2 | 125.7  | 125.7 |
| 10°   | 124.2 | 125.7  | 127.2 |
| 12.5° | 124.2 | 127.2  | 128.7 |
| 15°   | 124.2 | 127.2  | 128.7 |
| 17.5° | 124.2 | 127.2  | 128.7 |
| 20°   | 122.7 | 127.2  | 130.2 |
| 22.5° | 121.2 | 127.2  | 128.7 |
| 25°   | 119.6 | 127.2  | 128.7 |
| 27.5° | 118.1 | 125.7  | 128.7 |
| 30°   | 116.6 | 125.7  | 130.2 |
| 32.5° | 113.6 | 125.7  | 130.2 |
| 35°   | 112.1 | 125.7  | 130.2 |
| 37.5° | 110.6 | 125.7  | 131.8 |
| 40°   | 109.0 | 125.7  | 131.8 |
| 42.5° | 107.5 | 125.7  | 131.8 |
| 45°   | 106.0 | 124.2  | 131.8 |
| 47.5° | 103.0 | 124.2  | 131.8 |
| 50°   | 101.5 | 122.7  | 130.2 |
| 52.5° | 98.4  | 121.2  | 130.2 |
| 55°   | 95.4  | 118.1  | 125.7 |
| 57.5° | 90.9  | 113.6  | 119.6 |
| 60°   | 84.8  | 107.5  | 113.6 |
| 62.5° | 77.2  | 100.0  | 104.5 |
| 65°   | 71.2  | 90.9   | 96.9  |
| 67.5° | 62.1  | 80.3   | 86.3  |
| 70°   | 54.5  | 69.7   | 75.7  |
| 72.5° | 46.9  | 59.1   | 65.1  |
| 75°   | 39.4  | 48.5   | 53.0  |
| 77.5° | 30.3  | 39.4   | 42.4  |
| 80°   | 24.2  | 30.3   | 33.3  |
| 82.5° | 16.7  | 21.2   | 22.7  |
| 85°   | 10.6  | 13.6   | 15.1  |
| 87.5° | 4.5   | 6.1    | 6.1   |
| 90°   | 0.0   | 0.0    | 0.0   |

(END OF REPORT)