

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: P1308656

Luminaire Tested: LDSQA3D24R709027D010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308656  
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: LDSQA3D24R709027D010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

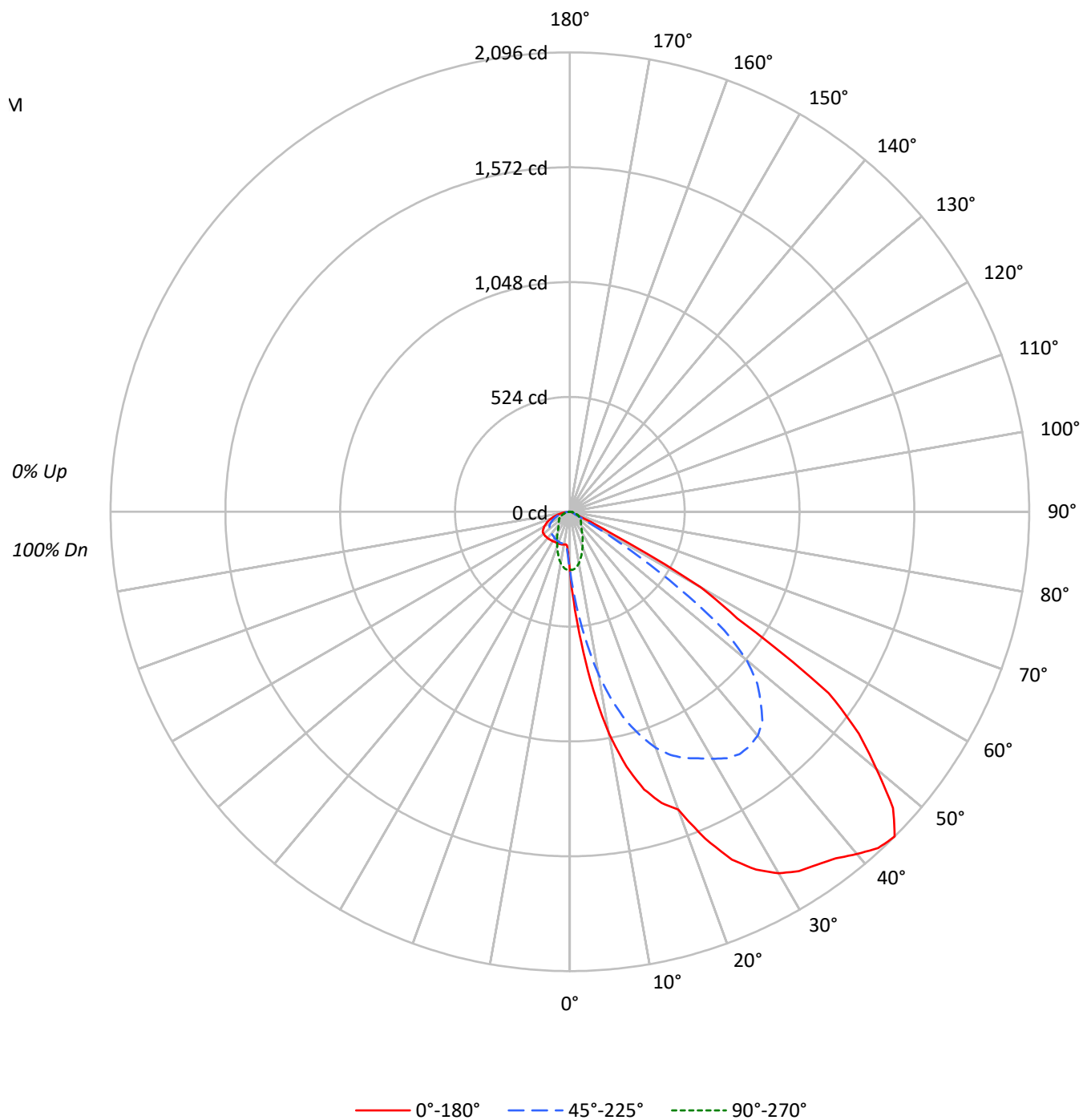
Lumens per Lamp: N/A  
Luminaire Lumens: 1811.0 lumens  
Efficiency: N/A  
Efficacy: 62.9 lumens/watt  
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 45432  | 45432  | 45432 | 45432 | 45432 |
| 5°  | 103400 | 82775  | 44984 | 28422 | 26554 |
| 10° | 179164 | 131439 | 41709 | 25917 | 26547 |
| 15° | 233891 | 175570 | 36408 | 26424 | 27387 |
| 20° | 264925 | 209942 | 31120 | 26832 | 28481 |
| 25° | 332699 | 235538 | 26091 | 27117 | 29188 |
| 30° | 378720 | 258704 | 22273 | 27662 | 30904 |
| 35° | 413300 | 283768 | 19364 | 28110 | 32672 |
| 40° | 458207 | 299776 | 17873 | 29249 | 35342 |
| 45° | 510477 | 300138 | 17609 | 30810 | 38288 |
| 50° | 488947 | 282238 | 17416 | 32446 | 41636 |
| 55° | 432946 | 182829 | 17896 | 34170 | 45039 |
| 60° | 237116 | 39198  | 18049 | 34858 | 46672 |
| 65° | 16953  | 9577   | 17686 | 34598 | 47109 |
| 70° | 8208   | 9114   | 16365 | 32730 | 45470 |
| 75° | 7187   | 9649   | 15637 | 31275 | 42054 |
| 80° | 7141   | 8926   | 14381 | 28663 | 39473 |
| 85° | 7114   | 10671  | 14227 | 24898 | 35766 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 510477 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 34.4   | 1.9       |
| 10°-20°   | 147.2  | 8.1       |
| 20°-30°   | 282.4  | 15.6      |
| 30°-40°   | 399.3  | 22.0      |
| 40°-50°   | 451.7  | 24.9      |
| 50°-60°   | 357.7  | 19.8      |
| 60°-70°   | 96.5   | 5.3       |
| 70°-80°   | 32.0   | 1.8       |
| 80°-90°   | 9.8    | 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°    | 464.0  | 25.6      |
| 0°-40°    | 863.3  | 47.7      |
| 0°-60°    | 1672.7 | 92.4      |
| 0°-90°    | 1811.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1811.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 264  | 264  | 264 | 264  | 264  |      |
| 5°  | 598  | 479  | 260 | 164  | 154  | 71   |
| 15° | 1312 | 985  | 204 | 148  | 154  | 370  |
| 25° | 1751 | 1240 | 137 | 143  | 154  | 802  |
| 35° | 1966 | 1350 | 92  | 134  | 155  | 1238 |
| 45° | 2096 | 1232 | 72  | 126  | 157  | 1568 |
| 55° | 1442 | 609  | 60  | 114  | 150  | 1170 |
| 65° | 42   | 24   | 43  | 85   | 116  | 150  |
| 75° | 11   | 14   | 24  | 47   | 63   | 12   |
| 85° | 4    | 5    | 7   | 13   | 18   | 4    |
| 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°    | 263.8  | 263.8  | 263.8  | 263.8  | 263.8  | 263.8  | 263.8  | 263.8  | 263.8 | 263.8 | 263.8  |
| 2.5°  | 410.2  | 410.2  | 408.3  | 401.1  | 397.5  | 388.5  | 381.2  | 361.4  | 312.6 | 265.6 | 227.7  |
| 5°    | 598.1  | 607.1  | 594.4  | 592.6  | 581.8  | 565.5  | 554.7  | 478.8  | 361.4 | 260.2 | 195.1  |
| 7.5°  | 820.3  | 823.9  | 820.3  | 802.2  | 786.0  | 758.9  | 733.6  | 614.3  | 410.2 | 251.2 | 171.6  |
| 10°   | 1024.5 | 1019.1 | 1008.2 | 995.6  | 972.1  | 943.2  | 899.8  | 751.6  | 457.1 | 238.5 | 157.2  |
| 12.5° | 1190.7 | 1188.9 | 1176.3 | 1163.6 | 1134.7 | 1096.8 | 1053.4 | 876.3  | 496.9 | 222.2 | 150.0  |
| 15°   | 1311.8 | 1311.8 | 1299.1 | 1284.7 | 1257.6 | 1226.8 | 1178.1 | 984.7  | 529.4 | 204.2 | 142.7  |
| 17.5° | 1393.1 | 1389.5 | 1380.4 | 1369.6 | 1347.9 | 1317.2 | 1279.2 | 1071.5 | 551.1 | 186.1 | 140.9  |
| 20°   | 1445.5 | 1443.7 | 1436.4 | 1420.2 | 1402.1 | 1378.6 | 1344.3 | 1145.5 | 560.1 | 169.8 | 139.1  |
| 22.5° | 1613.5 | 1599.1 | 1571.9 | 1537.6 | 1494.3 | 1438.2 | 1391.3 | 1201.5 | 556.5 | 151.8 | 135.5  |
| 25°   | 1750.8 | 1745.4 | 1716.5 | 1674.9 | 1617.1 | 1544.8 | 1467.2 | 1239.5 | 538.4 | 137.3 | 131.9  |
| 27.5° | 1841.2 | 1832.1 | 1805.0 | 1759.9 | 1698.4 | 1628.0 | 1555.7 | 1268.4 | 513.1 | 124.7 | 126.5  |
| 30°   | 1904.4 | 1899.0 | 1871.9 | 1821.3 | 1758.1 | 1680.4 | 1606.3 | 1300.9 | 478.8 | 112.0 | 121.1  |
| 32.5° | 1944.2 | 1938.7 | 1911.6 | 1866.5 | 1805.0 | 1723.7 | 1638.8 | 1333.4 | 437.3 | 101.2 | 115.6  |
| 35°   | 1965.8 | 1960.4 | 1929.7 | 1890.0 | 1832.1 | 1752.6 | 1662.3 | 1349.7 | 386.7 | 92.1  | 110.2  |
| 37.5° | 1992.9 | 1982.1 | 1940.5 | 1891.8 | 1833.9 | 1759.9 | 1669.5 | 1347.9 | 336.1 | 84.9  | 106.6  |
| 40°   | 2038.1 | 2009.2 | 1949.6 | 1884.5 | 1824.9 | 1750.8 | 1664.1 | 1333.4 | 280.1 | 79.5  | 103.0  |
| 42.5° | 2081.5 | 2039.9 | 1951.4 | 1873.7 | 1806.8 | 1734.6 | 1644.2 | 1300.9 | 218.6 | 75.9  | 101.2  |
| 45°   | 2095.9 | 2034.5 | 1926.1 | 1848.4 | 1785.2 | 1711.1 | 1617.1 | 1232.3 | 148.2 | 72.3  | 97.6   |
| 47.5° | 2000.2 | 1955.0 | 1864.7 | 1806.8 | 1747.2 | 1674.9 | 1577.4 | 1160.0 | 84.9  | 68.7  | 94.0   |
| 50°   | 1824.9 | 1796.0 | 1745.4 | 1709.3 | 1676.7 | 1626.2 | 1530.4 | 1053.4 | 50.6  | 65.0  | 90.3   |
| 52.5° | 1662.3 | 1653.3 | 1617.1 | 1588.2 | 1570.1 | 1546.7 | 1459.9 | 889.0  | 41.6  | 63.2  | 86.7   |
| 55°   | 1441.9 | 1412.9 | 1403.9 | 1393.1 | 1431.0 | 1429.2 | 1311.8 | 608.9  | 39.8  | 59.6  | 83.1   |
| 57.5° | 905.2  | 917.9  | 964.9  | 1051.6 | 1154.6 | 1214.2 | 1210.6 | 325.2  | 37.9  | 56.0  | 77.7   |
| 60°   | 688.4  | 686.6  | 701.1  | 737.2  | 813.1  | 898.0  | 977.5  | 113.8  | 36.1  | 52.4  | 74.1   |
| 62.5° | 206.0  | 211.4  | 254.8  | 374.0  | 448.1  | 552.9  | 504.1  | 27.1   | 34.3  | 47.0  | 66.9   |
| 65°   | 41.6   | 43.4   | 43.4   | 48.8   | 59.6   | 90.3   | 110.2  | 23.5   | 32.5  | 43.4  | 61.4   |
| 67.5° | 18.1   | 18.1   | 18.1   | 19.9   | 19.9   | 23.5   | 19.9   | 21.7   | 28.9  | 37.9  | 54.2   |
| 70°   | 16.3   | 16.3   | 16.3   | 16.3   | 16.3   | 16.3   | 18.1   | 18.1   | 25.3  | 32.5  | 47.0   |
| 72.5° | 12.6   | 12.6   | 12.6   | 14.5   | 14.5   | 14.5   | 14.5   | 16.3   | 21.7  | 27.1  | 39.8   |
| 75°   | 10.8   | 10.8   | 10.8   | 10.8   | 12.6   | 12.6   | 12.6   | 14.5   | 18.1  | 23.5  | 32.5   |
| 77.5° | 9.0    | 9.0    | 9.0    | 9.0    | 9.0    | 10.8   | 10.8   | 10.8   | 14.5  | 18.1  | 27.1   |
| 80°   | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 9.0    | 10.8  | 14.5  | 19.9   |
| 82.5° | 5.4    | 5.4    | 5.4    | 5.4    | 5.4    | 5.4    | 5.4    | 7.2    | 9.0   | 10.8  | 14.5   |
| 85°   | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 5.4    | 5.4   | 7.2   | 9.0    |
| 87.5° | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 3.6    | 3.6   | 3.6   | 5.4    |
| 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°    | 263.8 | 263.8  | 263.8 |
| 2.5°  | 200.6 | 189.7  | 184.3 |
| 5°    | 164.4 | 155.4  | 153.6 |
| 7.5°  | 151.8 | 150.0  | 150.0 |
| 10°   | 148.2 | 150.0  | 151.8 |
| 12.5° | 148.2 | 151.8  | 153.6 |
| 15°   | 148.2 | 151.8  | 153.6 |
| 17.5° | 148.2 | 151.8  | 153.6 |
| 20°   | 146.4 | 151.8  | 155.4 |
| 22.5° | 144.5 | 151.8  | 153.6 |
| 25°   | 142.7 | 151.8  | 153.6 |
| 27.5° | 140.9 | 150.0  | 153.6 |
| 30°   | 139.1 | 150.0  | 155.4 |
| 32.5° | 135.5 | 150.0  | 155.4 |
| 35°   | 133.7 | 150.0  | 155.4 |
| 37.5° | 131.9 | 150.0  | 157.2 |
| 40°   | 130.1 | 150.0  | 157.2 |
| 42.5° | 128.3 | 150.0  | 157.2 |
| 45°   | 126.5 | 148.2  | 157.2 |
| 47.5° | 122.9 | 148.2  | 157.2 |
| 50°   | 121.1 | 146.4  | 155.4 |
| 52.5° | 117.4 | 144.5  | 155.4 |
| 55°   | 113.8 | 140.9  | 150.0 |
| 57.5° | 108.4 | 135.5  | 142.7 |
| 60°   | 101.2 | 128.3  | 135.5 |
| 62.5° | 92.1  | 119.3  | 124.7 |
| 65°   | 84.9  | 108.4  | 115.6 |
| 67.5° | 74.1  | 95.8   | 103.0 |
| 70°   | 65.0  | 83.1   | 90.3  |
| 72.5° | 56.0  | 70.5   | 77.7  |
| 75°   | 47.0  | 57.8   | 63.2  |
| 77.5° | 36.1  | 47.0   | 50.6  |
| 80°   | 28.9  | 36.1   | 39.8  |
| 82.5° | 19.9  | 25.3   | 27.1  |
| 85°   | 12.6  | 16.3   | 18.1  |
| 87.5° | 5.4   | 7.2    | 7.2   |
| 90°   | 0.0   | 0.0    | 0.0   |

(END OF REPORT)