

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: P1313890

Luminaire Tested: LDSQA3D17R609727DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1313890  
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: LDSQA3D17R609727DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R60 optic, 2700K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

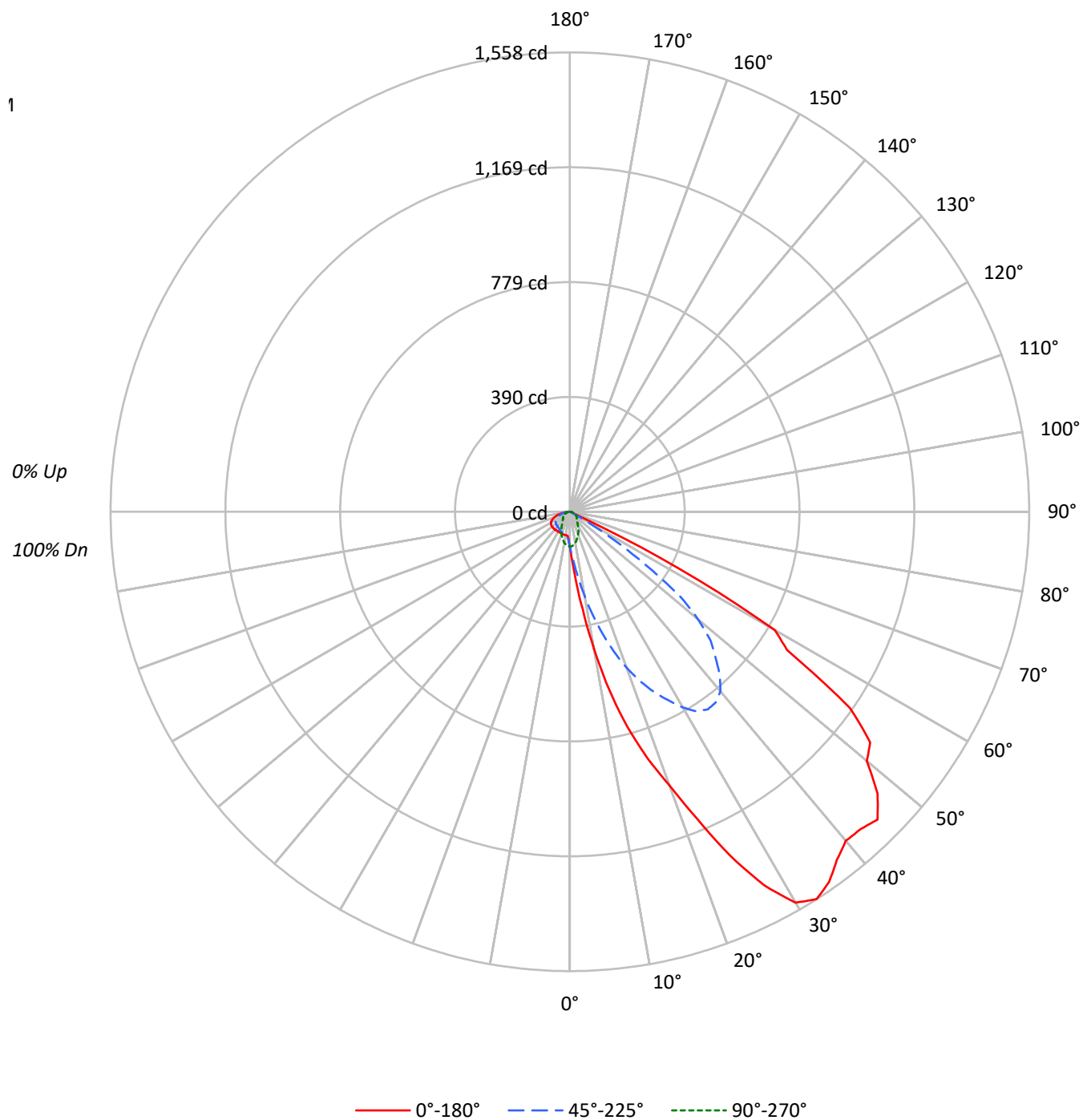
Lumens per Lamp: N/A  
Luminaire Lumens: 1186.0 lumens  
Efficiency: N/A  
Efficacy: 55.9 lumens/watt  
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 87  |    |    |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 79  | 76  | 74  |    |    |
| 3   | 92  | 82  | 74  | 68  | 90  | 81  | 73  | 68  | 78  | 72  | 67  | 75  | 70  | 65  | 72  | 68  | 64  | 62  |    |    |
| 4   | 84  | 72  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 53  |    |    |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |    |    |
| 6   | 70  | 57  | 48  | 42  | 69  | 56  | 48  | 42  | 54  | 47  | 41  | 53  | 46  | 41  | 51  | 45  | 41  | 39  |    |    |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 35  | 33  |    |    |
| 8   | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 32  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 29  |    |    |
| 9   | 55  | 42  | 33  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 25  |    |    |
| 10  | 52  | 38  | 30  | 25  | 50  | 38  | 30  | 25  | 37  | 29  | 24  | 36  | 29  | 24  | 35  | 29  | 24  | 22  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 20236  | 20236  | 20236 | 20236 | 20236 |
| 5°  | 39884  | 31118  | 19950 | 15092 | 14349 |
| 10° | 82386  | 50715  | 18660 | 13763 | 13955 |
| 15° | 134740 | 76115  | 16724 | 13836 | 14228 |
| 20° | 180801 | 103147 | 15010 | 13837 | 14424 |
| 25° | 244602 | 128040 | 13112 | 13720 | 14955 |
| 30° | 304443 | 152430 | 10938 | 13722 | 15651 |
| 35° | 322306 | 171812 | 9293  | 14044 | 16315 |
| 40° | 327451 | 178643 | 8476  | 14546 | 17693 |
| 45° | 359470 | 170151 | 8135  | 15490 | 19168 |
| 50° | 352409 | 152506 | 8092  | 16478 | 21086 |
| 55° | 348303 | 93561  | 8107  | 17805 | 23300 |
| 60° | 276280 | 22286  | 8542  | 18944 | 25248 |
| 65° | 17564  | 3953   | 8354  | 19316 | 27222 |
| 70° | 3777   | 4330   | 8157  | 20091 | 28752 |
| 75° | 3593   | 4325   | 7187  | 19364 | 29411 |
| 80° | 3174   | 4265   | 7438  | 19241 | 27770 |
| 85° | 2174   | 4347   | 8497  | 16994 | 27664 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 379406 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 14.7   | 1.2       |
| 10°-20°   | 73.9   | 6.2       |
| 20°-30°   | 171.5  | 14.5      |
| 30°-40°   | 266.6  | 22.5      |
| 40°-50°   | 303.8  | 25.6      |
| 50°-60°   | 255.8  | 21.6      |
| 60°-70°   | 74.2   | 6.3       |
| 70°-80°   | 19.0   | 1.6       |
| 80°-90°   | 6.4    | 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°    | 260.1  | 21.9      |
| 0°-40°    | 526.7  | 44.4      |
| 0°-60°    | 1086.3 | 91.6      |
| 0°-90°    | 1186.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1186.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 118  | 118 | 118 | 118  | 118  |      |
| 5°  | 231  | 180 | 115 | 87   | 83   | 30   |
| 15° | 756  | 427 | 94  | 78   | 80   | 219  |
| 25° | 1287 | 674 | 69  | 72   | 79   | 598  |
| 35° | 1533 | 817 | 44  | 67   | 78   | 952  |
| 45° | 1476 | 699 | 33  | 64   | 79   | 1109 |
| 55° | 1160 | 312 | 27  | 59   | 78   | 976  |
| 65° | 43   | 10  | 20  | 47   | 67   | 213  |
| 75° | 5    | 6   | 11  | 29   | 44   | 6    |
| 85° | 1    | 2   | 4   | 9    | 14   | 2    |
| 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°    | 117.5  | 117.5  | 117.5  | 117.5  | 117.5  | 117.5  | 117.5  | 117.5  | 117.5 | 117.5 | 117.5 |
| 2.5°  | 158.5  | 157.4  | 157.4  | 156.3  | 155.2  | 154.2  | 150.9  | 149.9  | 143.4 | 130.4 | 117.5 |
| 5°    | 230.7  | 229.6  | 226.4  | 225.3  | 219.9  | 212.4  | 204.8  | 197.3  | 180.0 | 143.4 | 115.4 |
| 7.5°  | 334.2  | 336.4  | 334.2  | 322.3  | 314.8  | 302.9  | 280.3  | 264.1  | 229.6 | 156.3 | 111.0 |
| 10°   | 471.1  | 471.1  | 467.9  | 449.6  | 433.4  | 410.8  | 381.6  | 353.6  | 290.0 | 168.2 | 106.7 |
| 12.5° | 619.9  | 623.1  | 607.0  | 591.9  | 562.8  | 534.7  | 494.8  | 452.8  | 359.0 | 177.9 | 101.3 |
| 15°   | 755.7  | 753.6  | 737.4  | 718.0  | 687.8  | 649.0  | 607.0  | 553.1  | 426.9 | 184.4 | 93.8  |
| 17.5° | 876.5  | 872.2  | 858.2  | 836.6  | 799.9  | 756.8  | 702.9  | 644.7  | 497.0 | 189.7 | 88.4  |
| 20°   | 986.5  | 971.4  | 955.2  | 932.5  | 897.0  | 851.7  | 795.6  | 729.9  | 562.8 | 189.7 | 81.9  |
| 22.5° | 1125.5 | 1110.4 | 1087.8 | 1053.3 | 1005.9 | 949.8  | 884.0  | 809.6  | 621.0 | 185.4 | 75.5  |
| 25°   | 1287.2 | 1275.4 | 1236.6 | 1192.4 | 1130.9 | 1064.1 | 987.5  | 887.3  | 673.8 | 179.0 | 69.0  |
| 27.5° | 1428.5 | 1415.5 | 1376.7 | 1312.0 | 1237.6 | 1157.9 | 1077.0 | 974.6  | 720.2 | 167.1 | 61.5  |
| 30°   | 1530.9 | 1514.7 | 1484.5 | 1423.1 | 1332.5 | 1235.5 | 1139.5 | 1041.4 | 766.5 | 153.1 | 55.0  |
| 32.5° | 1557.8 | 1555.7 | 1533.0 | 1487.8 | 1406.9 | 1300.2 | 1185.9 | 1079.2 | 803.2 | 134.8 | 49.6  |
| 35°   | 1533.0 | 1536.3 | 1532.0 | 1509.3 | 1450.0 | 1345.5 | 1216.1 | 1099.7 | 817.2 | 116.4 | 44.2  |
| 37.5° | 1487.8 | 1492.1 | 1499.6 | 1502.9 | 1465.1 | 1372.4 | 1233.3 | 1108.3 | 814.0 | 98.1  | 41.0  |
| 40°   | 1456.5 | 1454.3 | 1454.3 | 1475.9 | 1468.4 | 1384.3 | 1235.5 | 1101.8 | 794.6 | 78.7  | 37.7  |
| 42.5° | 1459.7 | 1436.0 | 1419.8 | 1454.3 | 1465.1 | 1378.9 | 1221.5 | 1084.6 | 752.5 | 60.4  | 34.5  |
| 45°   | 1475.9 | 1425.2 | 1397.2 | 1441.4 | 1458.7 | 1360.5 | 1195.6 | 1058.7 | 698.6 | 42.0  | 33.4  |
| 47.5° | 1415.5 | 1382.1 | 1377.8 | 1440.3 | 1446.8 | 1329.3 | 1155.7 | 1017.7 | 646.9 | 29.1  | 31.3  |
| 50°   | 1315.3 | 1309.9 | 1332.5 | 1397.2 | 1398.3 | 1277.5 | 1110.4 | 943.3  | 569.2 | 20.5  | 30.2  |
| 52.5° | 1284.0 | 1287.2 | 1307.7 | 1341.1 | 1309.9 | 1190.2 | 1028.5 | 880.8  | 471.1 | 16.2  | 29.1  |
| 55°   | 1160.0 | 1165.4 | 1184.8 | 1205.3 | 1182.7 | 1083.5 | 929.3  | 805.3  | 311.6 | 15.1  | 27.0  |
| 57.5° | 873.3  | 887.3  | 922.8  | 941.2  | 943.3  | 883.0  | 842.0  | 694.3  | 175.7 | 15.1  | 25.9  |
| 60°   | 802.1  | 783.8  | 767.6  | 729.9  | 695.4  | 687.8  | 692.1  | 520.7  | 64.7  | 14.0  | 24.8  |
| 62.5° | 419.4  | 410.8  | 435.5  | 451.7  | 456.0  | 479.7  | 448.5  | 274.9  | 14.0  | 14.0  | 22.6  |
| 65°   | 43.1   | 43.1   | 52.8   | 70.1   | 116.4  | 155.2  | 147.7  | 79.8   | 9.7   | 12.9  | 20.5  |
| 67.5° | 12.9   | 12.9   | 12.9   | 15.1   | 19.4   | 19.4   | 16.2   | 11.9   | 9.7   | 11.9  | 18.3  |
| 70°   | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 8.6    | 7.5    | 8.6   | 10.8  | 16.2  |
| 72.5° | 6.5    | 6.5    | 6.5    | 6.5    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5   | 9.7   | 14.0  |
| 75°   | 5.4    | 5.4    | 5.4    | 5.4    | 5.4    | 5.4    | 5.4    | 6.5    | 6.5   | 7.5   | 10.8  |
| 77.5° | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 5.4    | 5.4    | 5.4   | 6.5   | 8.6   |
| 80°   | 3.2    | 3.2    | 3.2    | 3.2    | 3.2    | 4.3    | 4.3    | 4.3    | 4.3   | 5.4   | 7.5   |
| 82.5° | 2.2    | 2.2    | 2.2    | 2.2    | 3.2    | 3.2    | 3.2    | 3.2    | 3.2   | 4.3   | 5.4   |
| 85°   | 1.1    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2   | 3.2   | 4.3   |
| 87.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 2.2   | 2.2   | 3.2   |
| 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):**

|       | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|--------|-------|
| 0°    | 117.5  | 117.5 | 117.5  | 117.5 |
| 2.5°  | 106.7  | 99.2  | 94.9   | 92.7  |
| 5°    | 97.0   | 87.3  | 84.1   | 83.0  |
| 7.5°  | 88.4   | 81.9  | 80.9   | 80.9  |
| 10°   | 83.0   | 78.7  | 79.8   | 79.8  |
| 12.5° | 79.8   | 78.7  | 79.8   | 80.9  |
| 15°   | 76.5   | 77.6  | 79.8   | 79.8  |
| 17.5° | 74.4   | 76.5  | 78.7   | 79.8  |
| 20°   | 71.2   | 75.5  | 78.7   | 78.7  |
| 22.5° | 69.0   | 74.4  | 77.6   | 78.7  |
| 25°   | 66.8   | 72.2  | 76.5   | 78.7  |
| 27.5° | 63.6   | 71.2  | 76.5   | 77.6  |
| 30°   | 60.4   | 69.0  | 75.5   | 78.7  |
| 32.5° | 57.1   | 67.9  | 75.5   | 77.6  |
| 35°   | 55.0   | 66.8  | 75.5   | 77.6  |
| 37.5° | 52.8   | 65.8  | 75.5   | 78.7  |
| 40°   | 51.7   | 64.7  | 74.4   | 78.7  |
| 42.5° | 49.6   | 64.7  | 74.4   | 78.7  |
| 45°   | 48.5   | 63.6  | 74.4   | 78.7  |
| 47.5° | 47.4   | 62.5  | 74.4   | 78.7  |
| 50°   | 45.3   | 61.5  | 73.3   | 78.7  |
| 52.5° | 44.2   | 60.4  | 73.3   | 78.7  |
| 55°   | 42.0   | 59.3  | 72.2   | 77.6  |
| 57.5° | 41.0   | 57.1  | 71.2   | 75.5  |
| 60°   | 38.8   | 55.0  | 69.0   | 73.3  |
| 62.5° | 35.6   | 51.7  | 65.8   | 71.2  |
| 65°   | 32.3   | 47.4  | 62.5   | 66.8  |
| 67.5° | 29.1   | 44.2  | 58.2   | 62.5  |
| 70°   | 25.9   | 39.9  | 52.8   | 57.1  |
| 72.5° | 22.6   | 34.5  | 47.4   | 50.7  |
| 75°   | 19.4   | 29.1  | 39.9   | 44.2  |
| 77.5° | 15.1   | 23.7  | 33.4   | 36.7  |
| 80°   | 11.9   | 19.4  | 25.9   | 28.0  |
| 82.5° | 9.7    | 14.0  | 19.4   | 20.5  |
| 85°   | 6.5    | 8.6   | 11.9   | 14.0  |
| 87.5° | 3.2    | 4.3   | 5.4    | 6.5   |
| 90°   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)