

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: P1317693

Luminaire Tested: LDSQA3D17R609827DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317693  
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: LDSQA3D17R609827DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R60 optic, 2700K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

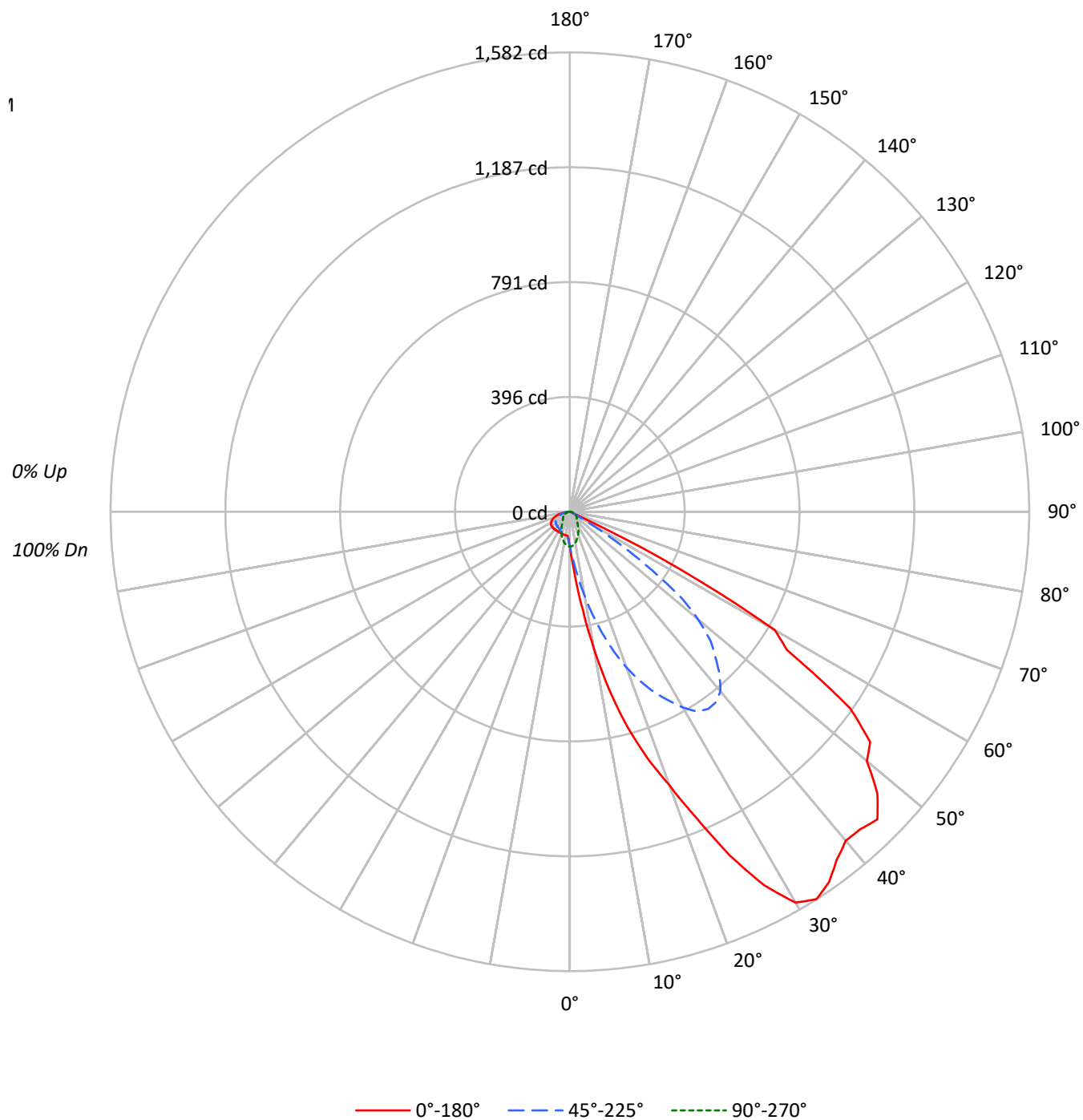
Lumens per Lamp: N/A  
Luminaire Lumens: 1204.0 lumens  
Efficiency: N/A  
Efficacy: 59.0 lumens/watt  
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.4  
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

TEST NUMBER: P1317693

CATALOG NUMBER: LDSQA3D17R609827DE010 3LSQCA45R 1MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1317693

CATALOG NUMBER: LDSQA3D17R609827DE010 3LSQCA45R 1MW

**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°  | 20546  | 20546  | 20546 | 20546 | 20546 |
| 5°  | 40489  | 31603  | 20244 | 15335 | 14574 |
| 10° | 83645  | 51485  | 18957 | 13973 | 14165 |
| 15° | 136790 | 77274  | 16974 | 14050 | 14442 |
| 20° | 183532 | 104705 | 15249 | 14039 | 14644 |
| 25° | 248327 | 129978 | 13302 | 13929 | 15183 |
| 30° | 309057 | 154757 | 11097 | 13921 | 15889 |
| 35° | 327204 | 174419 | 9440  | 14276 | 16567 |
| 40° | 332420 | 181340 | 8611  | 14771 | 17963 |
| 45° | 364925 | 172732 | 8257  | 15734 | 19460 |
| 50° | 357741 | 154837 | 8199  | 16719 | 21408 |
| 55° | 353587 | 94973  | 8227  | 18076 | 23661 |
| 60° | 280482 | 22630  | 8680  | 19220 | 25627 |
| 65° | 17849  | 4034   | 8476  | 19642 | 27670 |
| 70° | 3877   | 4431   | 8258  | 20394 | 29206 |
| 75° | 3660   | 4392   | 7253  | 19696 | 29877 |
| 80° | 3273   | 4364   | 7637  | 19538 | 28266 |
| 85° | 2174   | 4347   | 8695  | 17389 | 28060 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 385177 cd/sqm

TEST NUMBER: P1317693

CATALOG NUMBER: LDSQA3D17R609827DE010 3LSQCA45R 1MW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 14.9   | 1.2       |
| 10°-20°   | 75.1   | 6.2       |
| 20°-30°   | 174.1  | 14.5      |
| 30°-40°   | 270.6  | 22.5      |
| 40°-50°   | 308.4  | 25.6      |
| 50°-60°   | 259.7  | 21.6      |
| 60°-70°   | 75.4   | 6.3       |
| 70°-80°   | 19.3   | 1.6       |
| 80°-90°   | 6.5    | 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°    | 264.1  | 21.9      |
| 0°-40°    | 534.7  | 44.4      |
| 0°-60°    | 1102.8 | 91.6      |
| 0°-90°    | 1204.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1204.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 119  | 119 | 119 | 119  | 119  |      |
| 5°  | 234  | 183 | 117 | 89   | 84   | 30   |
| 15° | 767  | 433 | 95  | 79   | 81   | 222  |
| 25° | 1307 | 684 | 70  | 73   | 80   | 607  |
| 35° | 1556 | 830 | 45  | 68   | 79   | 967  |
| 45° | 1498 | 709 | 34  | 65   | 80   | 1126 |
| 55° | 1178 | 316 | 27  | 60   | 79   | 991  |
| 65° | 44   | 10  | 21  | 48   | 68   | 217  |
| 75° | 6    | 7   | 11  | 30   | 45   | 6    |
| 85° | 1    | 2   | 4   | 9    | 14   | 2    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1317693

CATALOG NUMBER: LDSQA3D17R609827DE010 3LSQCA45R 1MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 45°   | 67.5° | 90°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0°    | 119.3  | 119.3  | 119.3  | 119.3  | 119.3  | 119.3  | 119.3  | 119.3  | 119.3 | 119.3 | 119.3 |
| 2.5°  | 160.9  | 159.8  | 159.8  | 158.7  | 157.6  | 156.5  | 153.2  | 152.1  | 145.6 | 132.4 | 119.3 |
| 5°    | 234.2  | 233.1  | 229.8  | 228.7  | 223.3  | 215.6  | 207.9  | 200.3  | 182.8 | 145.6 | 117.1 |
| 7.5°  | 339.3  | 341.5  | 339.3  | 327.2  | 319.6  | 307.5  | 284.6  | 268.1  | 233.1 | 158.7 | 112.7 |
| 10°   | 478.3  | 478.3  | 475.0  | 456.4  | 440.0  | 417.0  | 387.4  | 359.0  | 294.4 | 170.7 | 108.4 |
| 12.5° | 629.3  | 632.6  | 616.2  | 600.9  | 571.3  | 542.8  | 502.4  | 459.7  | 364.5 | 180.6 | 102.9 |
| 15°   | 767.2  | 765.0  | 748.6  | 728.9  | 698.3  | 658.9  | 616.2  | 561.5  | 433.4 | 187.2 | 95.2  |
| 17.5° | 889.8  | 885.4  | 871.2  | 849.3  | 812.1  | 768.3  | 713.6  | 654.5  | 504.5 | 192.6 | 89.7  |
| 20°   | 1001.4 | 986.1  | 969.7  | 946.7  | 910.6  | 864.6  | 807.7  | 740.9  | 571.3 | 192.6 | 83.2  |
| 22.5° | 1142.6 | 1127.3 | 1104.3 | 1069.3 | 1021.1 | 964.2  | 897.5  | 821.9  | 630.4 | 188.2 | 76.6  |
| 25°   | 1306.8 | 1294.7 | 1255.3 | 1210.5 | 1148.1 | 1080.2 | 1002.5 | 900.7  | 684.0 | 181.7 | 70.0  |
| 27.5° | 1450.1 | 1437.0 | 1397.6 | 1331.9 | 1256.4 | 1175.4 | 1093.4 | 989.4  | 731.1 | 169.6 | 62.4  |
| 30°   | 1554.1 | 1537.7 | 1507.1 | 1444.7 | 1352.7 | 1254.2 | 1156.8 | 1057.2 | 778.2 | 155.4 | 55.8  |
| 32.5° | 1581.5 | 1579.3 | 1556.3 | 1510.3 | 1428.3 | 1319.9 | 1203.9 | 1095.5 | 815.4 | 136.8 | 50.3  |
| 35°   | 1556.3 | 1559.6 | 1555.2 | 1532.2 | 1472.0 | 1365.9 | 1234.5 | 1116.3 | 829.6 | 118.2 | 44.9  |
| 37.5° | 1510.3 | 1514.7 | 1522.4 | 1525.7 | 1487.4 | 1393.2 | 1252.1 | 1125.1 | 826.3 | 99.6  | 41.6  |
| 40°   | 1478.6 | 1476.4 | 1476.4 | 1498.3 | 1490.6 | 1405.3 | 1254.2 | 1118.5 | 806.6 | 79.9  | 38.3  |
| 42.5° | 1481.9 | 1457.8 | 1441.4 | 1476.4 | 1487.4 | 1399.8 | 1240.0 | 1101.0 | 763.9 | 61.3  | 35.0  |
| 45°   | 1498.3 | 1446.9 | 1418.4 | 1463.3 | 1480.8 | 1381.2 | 1213.7 | 1074.8 | 709.2 | 42.7  | 33.9  |
| 47.5° | 1437.0 | 1403.1 | 1398.7 | 1462.2 | 1468.8 | 1349.5 | 1173.3 | 1033.2 | 656.7 | 29.6  | 31.7  |
| 50°   | 1335.2 | 1329.8 | 1352.7 | 1418.4 | 1419.5 | 1296.9 | 1127.3 | 957.6  | 577.9 | 20.8  | 30.6  |
| 52.5° | 1303.5 | 1306.8 | 1327.6 | 1361.5 | 1329.8 | 1208.3 | 1044.1 | 894.2  | 478.3 | 16.4  | 29.6  |
| 55°   | 1177.6 | 1183.1 | 1202.8 | 1223.6 | 1200.6 | 1099.9 | 943.4  | 817.6  | 316.3 | 15.3  | 27.4  |
| 57.5° | 886.5  | 900.7  | 936.9  | 955.5  | 957.6  | 896.4  | 854.8  | 704.8  | 178.4 | 15.3  | 26.3  |
| 60°   | 814.3  | 795.7  | 779.2  | 740.9  | 705.9  | 698.3  | 702.6  | 528.6  | 65.7  | 14.2  | 25.2  |
| 62.5° | 425.7  | 417.0  | 442.2  | 458.6  | 463.0  | 487.0  | 455.3  | 279.1  | 14.2  | 14.2  | 23.0  |
| 65°   | 43.8   | 43.8   | 53.6   | 71.1   | 118.2  | 157.6  | 149.9  | 81.0   | 9.9   | 13.1  | 20.8  |
| 67.5° | 13.1   | 13.1   | 13.1   | 15.3   | 19.7   | 19.7   | 16.4   | 12.0   | 9.9   | 12.0  | 18.6  |
| 70°   | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 8.8    | 7.7    | 8.8   | 10.9  | 16.4  |
| 72.5° | 6.6    | 6.6    | 6.6    | 6.6    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7   | 9.9   | 14.2  |
| 75°   | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 6.6    | 6.6   | 7.7   | 10.9  |
| 77.5° | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    | 4.4    | 5.5    | 5.5    | 5.5   | 6.6   | 8.8   |
| 80°   | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 4.4    | 4.4    | 4.4    | 4.4   | 5.5   | 7.7   |
| 82.5° | 2.2    | 2.2    | 2.2    | 2.2    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3   | 4.4   | 5.5   |
| 85°   | 1.1    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2   | 3.3   | 4.4   |
| 87.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 2.2   | 2.2   | 3.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   |

TEST NUMBER: P1317693

CATALOG NUMBER: LDSQA3D17R609827DE010 3LSQCA45R 1MW

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|--------|-------|
| 0°    | 119.3  | 119.3 | 119.3  | 119.3 |
| 2.5°  | 108.4  | 100.7 | 96.3   | 94.1  |
| 5°    | 98.5   | 88.7  | 85.4   | 84.3  |
| 7.5°  | 89.7   | 83.2  | 82.1   | 82.1  |
| 10°   | 84.3   | 79.9  | 81.0   | 81.0  |
| 12.5° | 81.0   | 79.9  | 81.0   | 82.1  |
| 15°   | 77.7   | 78.8  | 81.0   | 81.0  |
| 17.5° | 75.5   | 77.7  | 79.9   | 81.0  |
| 20°   | 72.2   | 76.6  | 79.9   | 79.9  |
| 22.5° | 70.0   | 75.5  | 78.8   | 79.9  |
| 25°   | 67.9   | 73.3  | 77.7   | 79.9  |
| 27.5° | 64.6   | 72.2  | 77.7   | 78.8  |
| 30°   | 61.3   | 70.0  | 76.6   | 79.9  |
| 32.5° | 58.0   | 69.0  | 76.6   | 78.8  |
| 35°   | 55.8   | 67.9  | 76.6   | 78.8  |
| 37.5° | 53.6   | 66.8  | 76.6   | 79.9  |
| 40°   | 52.5   | 65.7  | 75.5   | 79.9  |
| 42.5° | 50.3   | 65.7  | 75.5   | 79.9  |
| 45°   | 49.3   | 64.6  | 75.5   | 79.9  |
| 47.5° | 48.2   | 63.5  | 75.5   | 79.9  |
| 50°   | 46.0   | 62.4  | 74.4   | 79.9  |
| 52.5° | 44.9   | 61.3  | 74.4   | 79.9  |
| 55°   | 42.7   | 60.2  | 73.3   | 78.8  |
| 57.5° | 41.6   | 58.0  | 72.2   | 76.6  |
| 60°   | 39.4   | 55.8  | 70.0   | 74.4  |
| 62.5° | 36.1   | 52.5  | 66.8   | 72.2  |
| 65°   | 32.8   | 48.2  | 63.5   | 67.9  |
| 67.5° | 29.6   | 44.9  | 59.1   | 63.5  |
| 70°   | 26.3   | 40.5  | 53.6   | 58.0  |
| 72.5° | 23.0   | 35.0  | 48.2   | 51.4  |
| 75°   | 19.7   | 29.6  | 40.5   | 44.9  |
| 77.5° | 15.3   | 24.1  | 33.9   | 37.2  |
| 80°   | 12.0   | 19.7  | 26.3   | 28.5  |
| 82.5° | 9.9    | 14.2  | 19.7   | 20.8  |
| 85°   | 6.6    | 8.8   | 12.0   | 14.2  |
| 87.5° | 3.3    | 4.4   | 5.5    | 6.6   |
| 90°   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)