

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: IRiS

Report Number: P1316613

Luminaire Tested: P3SQAS20R709827D010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316613  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS20R709827D010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

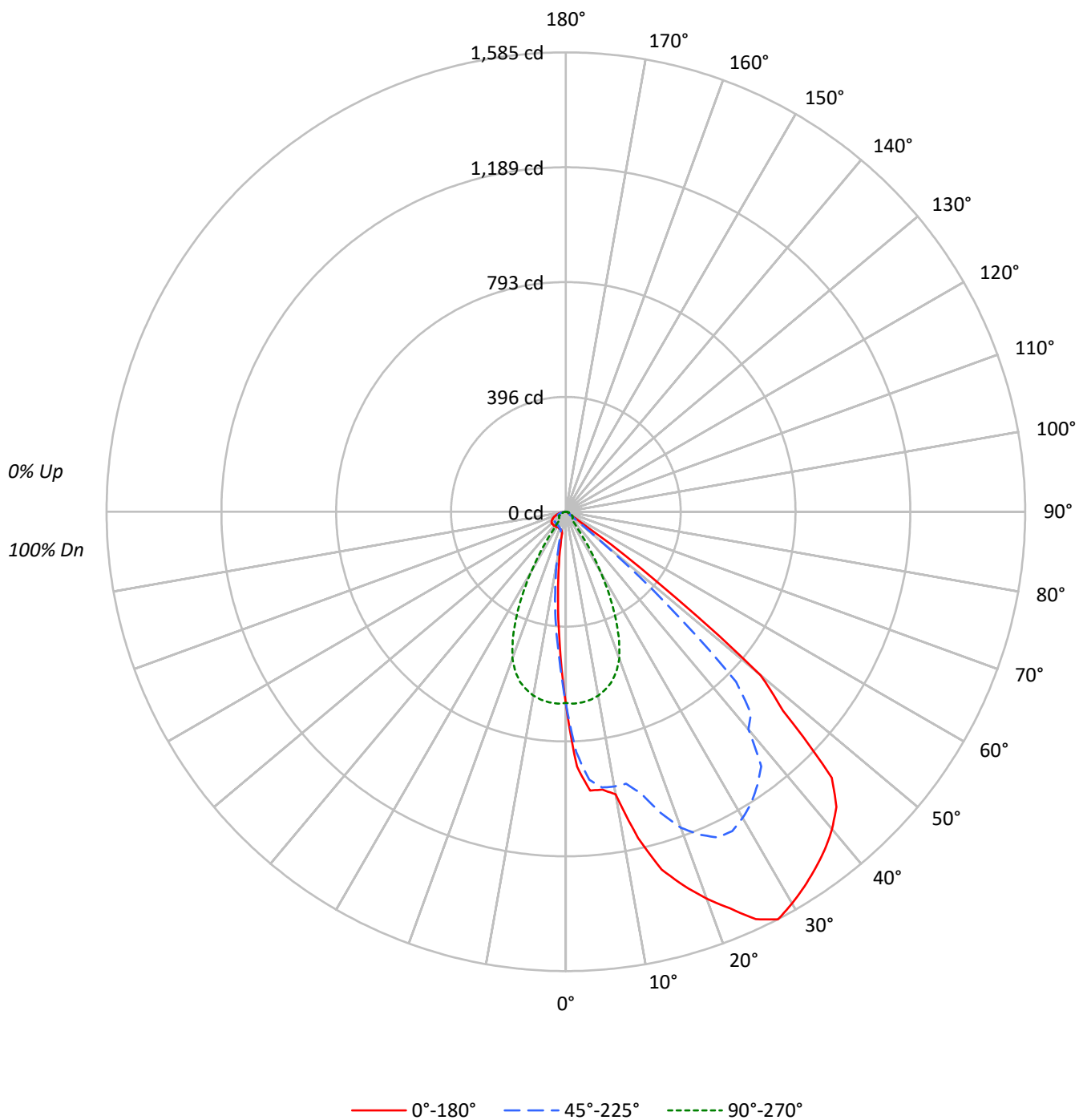
Lumens per Lamp: N/A  
Luminaire Lumens: 1253.0 lumens  
Efficiency: N/A  
Efficacy: 45.7 lumens/watt  
Spacing Criteria (0/90/45): 1.7 / 0.89 / 1.39  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 27.4  
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: P1316613

CATALOG NUMBER: P3SQAS20R709827D010 E3SQCA301MW

### 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   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98  | 98  | 96  | 95  | 95  | 93  | 92  |
| 2   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 88  | 93  | 89  | 86  | 90  | 87  | 84  | 87  | 84  | 82  |
| 3   | 97  | 89  | 83  | 78  | 95  | 87  | 82  | 77  | 85  | 80  | 76  | 82  | 78  | 74  | 80  | 76  | 73  |
| 4   | 90  | 81  | 74  | 68  | 88  | 80  | 73  | 68  | 77  | 72  | 67  | 75  | 70  | 66  | 73  | 69  | 65  |
| 5   | 84  | 74  | 66  | 61  | 82  | 73  | 66  | 61  | 71  | 65  | 60  | 69  | 64  | 59  | 67  | 62  | 59  |
| 6   | 79  | 67  | 60  | 54  | 77  | 66  | 59  | 54  | 65  | 58  | 54  | 63  | 58  | 53  | 62  | 57  | 53  |
| 7   | 73  | 62  | 54  | 49  | 72  | 61  | 54  | 49  | 60  | 53  | 48  | 58  | 52  | 48  | 57  | 52  | 48  |
| 8   | 69  | 57  | 49  | 44  | 67  | 56  | 49  | 44  | 55  | 49  | 44  | 54  | 48  | 44  | 53  | 47  | 43  |
| 9   | 64  | 52  | 45  | 40  | 63  | 52  | 45  | 40  | 51  | 44  | 40  | 50  | 44  | 40  | 49  | 44  | 40  |
| 10  | 60  | 49  | 42  | 37  | 59  | 48  | 41  | 37  | 47  | 41  | 37  | 46  | 41  | 36  | 45  | 40  | 36  |

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

|     | 0°     | 45°    | 90°    | 135°   | 180°   |
|-----|--------|--------|--------|--------|--------|
| 0°  | 113615 | 113615 | 113615 | 113615 | 113615 |
| 5°  | 166899 | 160502 | 114049 | 68080  | 53334  |
| 10° | 173043 | 168321 | 112640 | 32580  | 13186  |
| 15° | 227901 | 179475 | 108494 | 11661  | 11411  |
| 20° | 260306 | 212636 | 98749  | 11198  | 11473  |
| 25° | 294750 | 235595 | 77531  | 10813  | 11345  |
| 30° | 310449 | 242596 | 48066  | 10739  | 12151  |
| 35° | 315662 | 242118 | 15852  | 11059  | 12846  |
| 40° | 321246 | 220234 | 7666   | 11826  | 14074  |
| 45° | 316165 | 202228 | 7964   | 12470  | 15247  |
| 50° | 235029 | 37323  | 8011   | 13718  | 16772  |
| 55° | 18796  | 5134   | 8527   | 14503  | 17926  |
| 60° | 3927   | 5373   | 8336   | 14708  | 18600  |
| 65° | 4075   | 5216   | 8110   | 14467  | 19112  |
| 70° | 3575   | 5035   | 7855   | 13596  | 18631  |
| 75° | 2861   | 4724   | 6654   | 13242  | 17966  |
| 80° | 2777   | 4265   | 7042   | 12695  | 16960  |
| 85° | 2766   | 5533   | 8497   | 11263  | 14030  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 319964 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 60.0   | 4.8       |
| 10°-20°   | 168.8  | 13.5      |
| 20°-30°   | 283.5  | 22.6      |
| 30°-40°   | 340.9  | 27.2      |
| 40°-50°   | 270.2  | 21.6      |
| 50°-60°   | 86.4   | 6.9       |
| 60°-70°   | 24.1   | 1.9       |
| 70°-80°   | 14.4   | 1.1       |
| 80°-90°   | 4.5    | 0.4       |
| 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°    | 512.3  | 40.9      |
| 0°-40°    | 853.2  | 68.1      |
| 0°-60°    | 1209.9 | 96.6      |
| 0°-90°    | 1253.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1253.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 660  | 660  | 660 | 660  | 660  |      |
| 5°  | 965  | 928  | 660 | 394  | 308  | 91   |
| 15° | 1278 | 1007 | 608 | 65   | 64   | 360  |
| 25° | 1551 | 1240 | 408 | 57   | 60   | 709  |
| 35° | 1501 | 1152 | 75  | 53   | 61   | 940  |
| 45° | 1298 | 830  | 33  | 51   | 63   | 932  |
| 55° | 63   | 17   | 28  | 48   | 60   | 196  |
| 65° | 10   | 13   | 20  | 36   | 47   | 10   |
| 75° | 4    | 7    | 10  | 20   | 27   | 5    |
| 85° | 1    | 3    | 4   | 6    | 7    | 1    |
| 90° | 0    | 0    | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 659.7  | 659.7  | 659.7  | 659.7  | 659.7  | 659.7  | 659.7  | 659.7  | 659.7  | 659.7  | 659.7  |
| 2.5°  | 880.1  | 885.8  | 885.8  | 878.7  | 881.5  | 870.1  | 861.6  | 848.8  | 846.0  | 830.3  | 810.4  |
| 5°    | 965.4  | 962.5  | 962.5  | 956.8  | 959.7  | 955.4  | 951.2  | 948.3  | 939.8  | 928.4  | 917.0  |
| 7.5°  | 966.8  | 969.6  | 971.1  | 969.6  | 975.3  | 971.1  | 971.1  | 971.1  | 965.4  | 959.7  | 948.3  |
| 10°   | 989.5  | 985.3  | 981.0  | 971.1  | 965.4  | 961.1  | 961.1  | 962.5  | 965.4  | 962.5  | 955.4  |
| 12.5° | 1153.1 | 1137.4 | 1130.3 | 1106.1 | 1087.7 | 1056.4 | 1020.8 | 993.8  | 969.6  | 961.1  | 955.4  |
| 15°   | 1278.2 | 1275.3 | 1261.1 | 1238.4 | 1215.6 | 1178.6 | 1137.4 | 1096.2 | 1052.1 | 1006.6 | 973.9  |
| 17.5° | 1352.1 | 1346.4 | 1332.2 | 1308.0 | 1281.0 | 1246.9 | 1214.2 | 1182.9 | 1140.3 | 1089.1 | 1036.5 |
| 20°   | 1420.3 | 1407.5 | 1389.1 | 1360.6 | 1333.6 | 1300.9 | 1265.4 | 1235.5 | 1200.0 | 1160.2 | 1099.0 |
| 22.5° | 1481.5 | 1470.1 | 1440.3 | 1401.9 | 1374.8 | 1343.6 | 1312.3 | 1283.9 | 1251.2 | 1205.7 | 1150.2 |
| 25°   | 1551.1 | 1525.6 | 1477.2 | 1427.5 | 1394.8 | 1369.2 | 1346.4 | 1323.7 | 1289.5 | 1239.8 | 1174.4 |
| 27.5° | 1585.3 | 1549.7 | 1497.1 | 1447.4 | 1416.1 | 1389.1 | 1364.9 | 1342.1 | 1303.8 | 1242.6 | 1167.3 |
| 30°   | 1561.1 | 1541.2 | 1504.2 | 1465.8 | 1440.3 | 1414.7 | 1386.2 | 1352.1 | 1291.0 | 1219.9 | 1150.2 |
| 32.5° | 1532.7 | 1522.7 | 1505.7 | 1482.9 | 1467.3 | 1441.7 | 1401.9 | 1346.4 | 1261.1 | 1191.4 | 1116.1 |
| 35°   | 1501.4 | 1497.1 | 1491.4 | 1481.5 | 1471.5 | 1447.4 | 1397.6 | 1316.6 | 1231.3 | 1151.6 | 1079.1 |
| 37.5° | 1468.7 | 1464.4 | 1468.7 | 1467.3 | 1458.7 | 1427.5 | 1352.1 | 1276.7 | 1188.6 | 1107.6 | 966.8  |
| 40°   | 1428.9 | 1426.0 | 1433.1 | 1440.3 | 1430.3 | 1389.1 | 1308.0 | 1217.0 | 1138.8 | 979.6  | 931.3  |
| 42.5° | 1382.0 | 1380.5 | 1393.3 | 1399.0 | 1384.8 | 1323.7 | 1228.4 | 1161.6 | 996.7  | 945.5  | 831.7  |
| 45°   | 1298.1 | 1300.9 | 1306.6 | 1313.7 | 1305.2 | 1238.4 | 1151.6 | 1029.4 | 956.8  | 830.3  | 473.4  |
| 47.5° | 1016.6 | 1019.4 | 1047.8 | 1107.6 | 1148.8 | 1126.0 | 1052.1 | 961.1  | 855.9  | 474.9  | 149.3  |
| 50°   | 877.2  | 874.4  | 875.8  | 890.0  | 922.7  | 954.0  | 931.3  | 881.5  | 510.4  | 139.3  | 18.5   |
| 52.5° | 385.3  | 428.0  | 473.4  | 601.4  | 683.9  | 770.6  | 787.7  | 551.6  | 166.3  | 18.5   | 18.5   |
| 55°   | 62.6   | 65.4   | 82.5   | 120.9  | 217.5  | 328.4  | 398.1  | 184.8  | 17.1   | 17.1   | 17.1   |
| 57.5° | 12.8   | 12.8   | 12.8   | 14.2   | 21.3   | 45.5   | 52.6   | 15.6   | 15.6   | 15.6   | 17.1   |
| 60°   | 11.4   | 11.4   | 11.4   | 11.4   | 12.8   | 12.8   | 12.8   | 14.2   | 14.2   | 15.6   | 15.6   |
| 62.5° | 11.4   | 11.4   | 11.4   | 11.4   | 11.4   | 11.4   | 12.8   | 12.8   | 14.2   | 14.2   | 15.6   |
| 65°   | 10.0   | 10.0   | 10.0   | 10.0   | 11.4   | 11.4   | 11.4   | 11.4   | 12.8   | 12.8   | 14.2   |
| 67.5° | 8.5    | 8.5    | 8.5    | 8.5    | 10.0   | 10.0   | 10.0   | 11.4   | 11.4   | 11.4   | 12.8   |
| 70°   | 7.1    | 7.1    | 7.1    | 7.1    | 8.5    | 8.5    | 8.5    | 8.5    | 10.0   | 10.0   | 10.0   |
| 72.5° | 5.7    | 5.7    | 5.7    | 5.7    | 7.1    | 7.1    | 7.1    | 7.1    | 8.5    | 8.5    | 8.5    |
| 75°   | 4.3    | 4.3    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 7.1    | 7.1    | 7.1    |
| 77.5° | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 5.7    | 5.7    | 5.7    | 5.7    |
| 80°   | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    |
| 82.5° | 1.4    | 1.4    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    |
| 85°   | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 2.8    | 2.8    | 2.8    | 2.8    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 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):**

|       | 55°    | 60°    | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|--------|-------|-------|--------|-------|--------|-------|
| 0°    | 659.7  | 659.7  | 659.7 | 659.7 | 659.7  | 659.7 | 659.7  | 659.7 |
| 2.5°  | 797.6  | 777.7  | 750.7 | 662.5 | 581.5  | 507.6 | 470.6  | 466.3 |
| 5°    | 898.6  | 880.1  | 834.6 | 659.7 | 504.7  | 393.8 | 327.0  | 308.5 |
| 7.5°  | 936.9  | 921.3  | 881.5 | 654.0 | 432.2  | 282.9 | 207.6  | 179.1 |
| 10°   | 946.9  | 936.9  | 902.8 | 644.1 | 356.9  | 186.3 | 98.1   | 75.4  |
| 12.5° | 951.2  | 944.1  | 911.4 | 628.4 | 281.5  | 96.7  | 66.8   | 66.8  |
| 15°   | 958.3  | 951.2  | 919.9 | 608.5 | 207.6  | 65.4  | 64.0   | 64.0  |
| 17.5° | 989.5  | 966.8  | 931.3 | 578.7 | 136.5  | 62.6  | 62.6   | 62.6  |
| 20°   | 1040.7 | 991.0  | 936.9 | 538.8 | 85.3   | 61.1  | 61.1   | 62.6  |
| 22.5° | 1083.4 | 1016.6 | 935.5 | 479.1 | 62.6   | 58.3  | 59.7   | 61.1  |
| 25°   | 1101.9 | 1027.9 | 922.7 | 408.0 | 54.0   | 56.9  | 59.7   | 59.7  |
| 27.5° | 1099.0 | 1032.2 | 911.4 | 327.0 | 51.2   | 55.4  | 58.3   | 61.1  |
| 30°   | 1083.4 | 1020.8 | 885.8 | 241.7 | 48.3   | 54.0  | 58.3   | 61.1  |
| 32.5° | 1056.4 | 976.8  | 834.6 | 156.4 | 46.9   | 54.0  | 58.3   | 61.1  |
| 35°   | 968.2  | 905.7  | 760.6 | 75.4  | 45.5   | 52.6  | 59.7   | 61.1  |
| 37.5° | 917.0  | 830.3  | 580.1 | 37.0  | 44.1   | 52.6  | 59.7   | 61.1  |
| 40°   | 834.6  | 619.9  | 261.6 | 34.1  | 44.1   | 52.6  | 59.7   | 62.6  |
| 42.5° | 524.6  | 254.5  | 42.7  | 32.7  | 42.7   | 52.6  | 59.7   | 62.6  |
| 45°   | 191.9  | 34.1   | 22.7  | 32.7  | 42.7   | 51.2  | 59.7   | 62.6  |
| 47.5° | 19.9   | 19.9   | 21.3  | 31.3  | 41.2   | 51.2  | 59.7   | 62.6  |
| 50°   | 18.5   | 19.9   | 21.3  | 29.9  | 39.8   | 51.2  | 58.3   | 62.6  |
| 52.5° | 18.5   | 19.9   | 21.3  | 29.9  | 38.4   | 49.8  | 58.3   | 62.6  |
| 55°   | 18.5   | 19.9   | 19.9  | 28.4  | 37.0   | 48.3  | 56.9   | 59.7  |
| 57.5° | 17.1   | 18.5   | 19.9  | 27.0  | 35.5   | 45.5  | 55.4   | 58.3  |
| 60°   | 17.1   | 18.5   | 19.9  | 24.2  | 34.1   | 42.7  | 52.6   | 54.0  |
| 62.5° | 15.6   | 17.1   | 18.5  | 22.7  | 31.3   | 39.8  | 48.3   | 51.2  |
| 65°   | 15.6   | 15.6   | 17.1  | 19.9  | 28.4   | 35.5  | 44.1   | 46.9  |
| 67.5° | 12.8   | 14.2   | 14.2  | 17.1  | 24.2   | 31.3  | 39.8   | 42.7  |
| 70°   | 11.4   | 11.4   | 12.8  | 15.6  | 21.3   | 27.0  | 34.1   | 37.0  |
| 72.5° | 10.0   | 10.0   | 10.0  | 12.8  | 18.5   | 24.2  | 29.9   | 32.7  |
| 75°   | 8.5    | 8.5    | 8.5   | 10.0  | 15.6   | 19.9  | 25.6   | 27.0  |
| 77.5° | 7.1    | 7.1    | 7.1   | 8.5   | 12.8   | 17.1  | 19.9   | 22.7  |
| 80°   | 5.7    | 5.7    | 5.7   | 7.1   | 10.0   | 12.8  | 15.6   | 17.1  |
| 82.5° | 4.3    | 4.3    | 4.3   | 5.7   | 7.1    | 8.5   | 11.4   | 11.4  |
| 85°   | 2.8    | 2.8    | 2.8   | 4.3   | 4.3    | 5.7   | 7.1    | 7.1   |
| 87.5° | 1.4    | 1.4    | 1.4   | 2.8   | 2.8    | 2.8   | 2.8    | 2.8   |
| 90°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)