

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: P1307879

Luminaire Tested: P3SQAS09R459030DE010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307879  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS09R459030DE010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

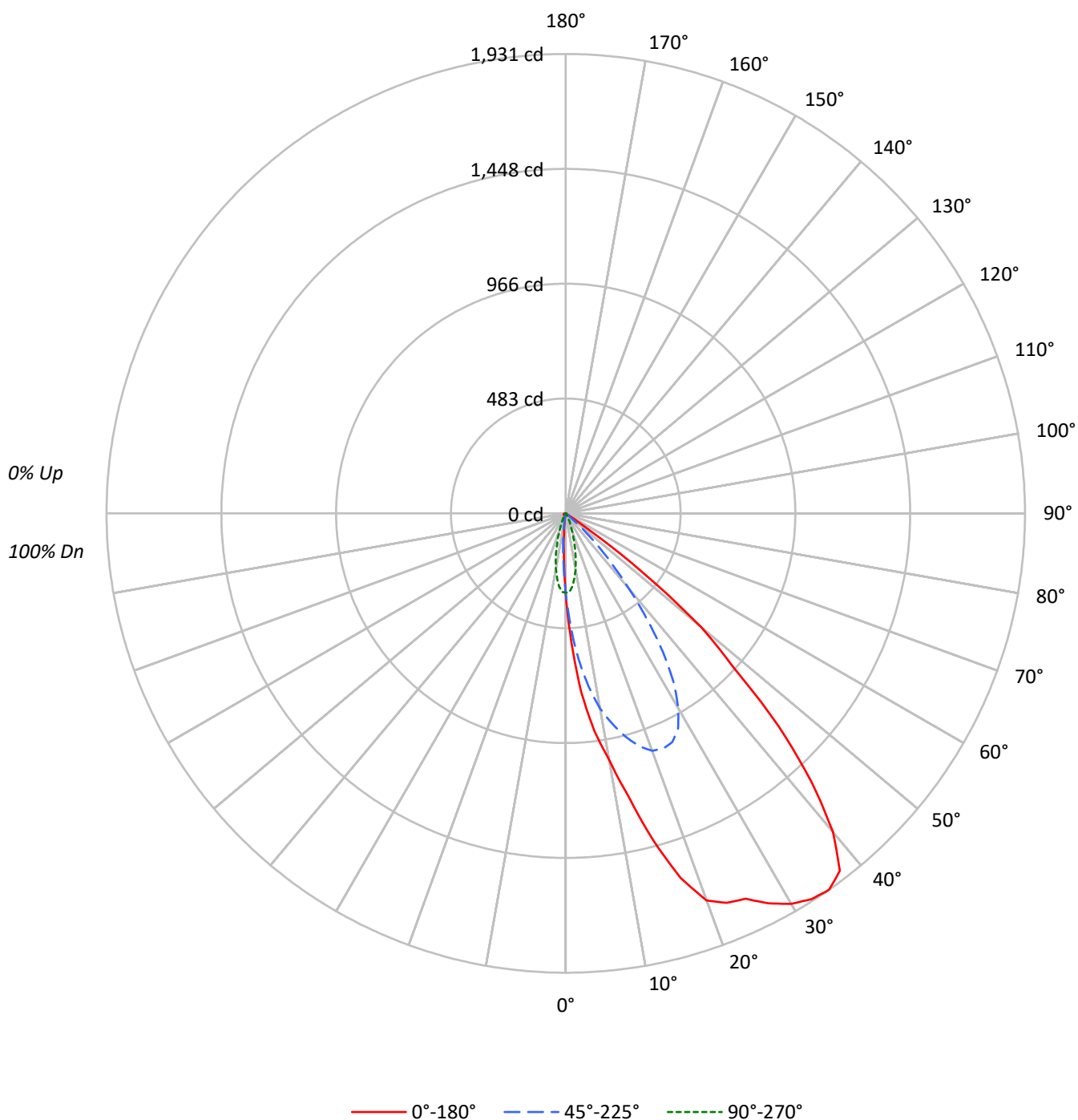
Lumens per Lamp: N/A  
Luminaire Lumens: 875.0 lumens  
Efficiency: N/A  
Efficacy: 78.8 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
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: P1307879

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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   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 93  | 90  | 95  | 91  | 88  | 91  | 88  | 86  | 89  | 86  | 84  | 82  |    |    |
| 3   | 99  | 91  | 85  | 80  | 96  | 89  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 74  |    |    |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 77  | 73  | 69  | 76  | 72  | 68  | 67  |    |    |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 64  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 60  |    |    |
| 6   | 81  | 70  | 63  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 60  | 56  | 54  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 57  | 52  | 62  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 51  | 49  |    |    |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 46  | 45  |    |    |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 51  | 46  | 42  | 41  |    |    |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 37  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 57350  | 57350  | 57350 | 57350 | 57350 |
| 5°  | 130680 | 106010 | 53645 | 21506 | 14678 |
| 10° | 184148 | 145640 | 41464 | 4739  | 2169  |
| 15° | 253772 | 173270 | 26477 | 1569  | 1302  |
| 20° | 317323 | 194602 | 13819 | 1081  | 1081  |
| 25° | 339578 | 201485 | 6404  | 836   | 969   |
| 30° | 376910 | 188167 | 2903  | 875   | 1014  |
| 35° | 406004 | 150010 | 925   | 925   | 1240  |
| 40° | 392874 | 92941  | 495   | 1147  | 1484  |
| 45° | 308517 | 43841  | 536   | 1437  | 1778  |
| 50° | 198215 | 5091   | 777   | 1768  | 2358  |
| 55° | 30116  | 450    | 871   | 2192  | 2852  |
| 60° | 517    | 517    | 999   | 2514  | 3031  |
| 65° | 611    | 611    | 1182  | 2690  | 3586  |
| 70° | 755    | 755    | 1460  | 2971  | 4028  |
| 75° | 466    | 998    | 1930  | 3394  | 4392  |
| 80° | 694    | 1488   | 2182  | 3670  | 5058  |
| 85° | 0      | 1383   | 2964  | 4347  | 4347  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 308517 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 36.4   | 4.2       |
| 10°-20°   | 131.7  | 15.1      |
| 20°-30°   | 231.5  | 26.5      |
| 30°-40°   | 262.8  | 30.0      |
| 40°-50°   | 170.2  | 19.4      |
| 50°-60°   | 33.4   | 3.8       |
| 60°-70°   | 4.1    | 0.5       |
| 70°-80°   | 3.4    | 0.4       |
| 80°-90°   | 1.5    | 0.2       |
| 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°    | 399.6  | 45.7      |
| 0°-40°    | 662.5  | 75.7      |
| 0°-60°    | 866.0  | 99.0      |
| 0°-90°    | 875.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 875.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 333  | 333  | 333 | 333  | 333  |      |
| 5°  | 756  | 613  | 310 | 124  | 85   | 80   |
| 15° | 1423 | 972  | 148 | 9    | 7    | 410  |
| 25° | 1787 | 1060 | 34  | 4    | 5    | 838  |
| 35° | 1931 | 714  | 4   | 4    | 6    | 1187 |
| 45° | 1267 | 180  | 2   | 6    | 7    | 955  |
| 55° | 100  | 2    | 3   | 7    | 10   | 191  |
| 65° | 2    | 2    | 3   | 7    | 9    | 1    |
| 75° | 1    | 2    | 3   | 5    | 7    | 1    |
| 85° | 0    | 1    | 2   | 2    | 2    | 0    |
| 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°    | 333.0  | 333.0  | 333.0  | 333.0  | 333.0  | 333.0  | 333.0  | 333.0  | 333.0  | 333.0  | 333.0 |
| 2.5°  | 540.8  | 539.3  | 541.5  | 526.9  | 526.1  | 515.2  | 512.2  | 499.8  | 483.0  | 474.9  | 455.9 |
| 5°    | 755.9  | 748.6  | 748.6  | 731.0  | 725.2  | 712.7  | 691.5  | 665.2  | 643.2  | 613.2  | 581.0 |
| 7.5°  | 922.0  | 920.6  | 920.6  | 905.2  | 890.6  | 873.0  | 844.5  | 814.5  | 779.3  | 733.2  | 686.4 |
| 10°   | 1053.0 | 1055.2 | 1048.6 | 1034.7 | 1013.5 | 994.5  | 960.8  | 924.2  | 881.1  | 832.8  | 770.6 |
| 12.5° | 1218.4 | 1202.3 | 1197.2 | 1165.7 | 1138.6 | 1102.0 | 1061.8 | 1020.1 | 966.7  | 905.9  | 835.7 |
| 15°   | 1423.3 | 1402.8 | 1382.3 | 1340.6 | 1295.2 | 1238.9 | 1176.0 | 1114.5 | 1045.7 | 971.8  | 884.0 |
| 17.5° | 1606.2 | 1606.2 | 1579.2 | 1513.3 | 1454.8 | 1371.3 | 1286.5 | 1204.5 | 1123.3 | 1025.9 | 916.2 |
| 20°   | 1731.4 | 1724.8 | 1704.3 | 1656.0 | 1589.4 | 1495.0 | 1384.5 | 1269.6 | 1171.6 | 1061.8 | 934.5 |
| 22.5° | 1772.3 | 1770.9 | 1771.6 | 1743.1 | 1689.7 | 1591.6 | 1456.2 | 1320.8 | 1197.9 | 1070.6 | 925.7 |
| 25°   | 1787.0 | 1789.9 | 1797.2 | 1786.2 | 1746.0 | 1647.9 | 1500.1 | 1345.0 | 1206.0 | 1060.3 | 892.0 |
| 27.5° | 1847.7 | 1841.9 | 1849.9 | 1842.6 | 1797.2 | 1680.1 | 1508.9 | 1339.1 | 1188.4 | 1023.0 | 832.0 |
| 30°   | 1895.3 | 1893.8 | 1907.7 | 1901.1 | 1841.9 | 1700.6 | 1500.9 | 1317.2 | 1145.2 | 946.2  | 737.6 |
| 32.5° | 1922.4 | 1923.1 | 1926.7 | 1899.7 | 1811.9 | 1656.0 | 1461.3 | 1272.5 | 1064.0 | 845.9  | 614.7 |
| 35°   | 1931.1 | 1926.7 | 1906.3 | 1839.7 | 1719.7 | 1552.8 | 1364.0 | 1166.4 | 953.5  | 713.5  | 485.9 |
| 37.5° | 1893.1 | 1870.4 | 1817.7 | 1718.2 | 1579.2 | 1423.3 | 1239.6 | 1032.5 | 802.0  | 563.5  | 362.2 |
| 40°   | 1747.5 | 1717.5 | 1650.9 | 1549.2 | 1419.6 | 1268.9 | 1080.8 | 864.2  | 622.0  | 413.4  | 254.7 |
| 42.5° | 1529.4 | 1514.0 | 1444.5 | 1356.0 | 1246.2 | 1094.0 | 900.1  | 680.5  | 460.3  | 285.4  | 162.5 |
| 45°   | 1266.7 | 1246.9 | 1203.0 | 1124.7 | 1038.4 | 878.9  | 698.1  | 487.4  | 313.9  | 180.0  | 80.5  |
| 47.5° | 949.8  | 951.3  | 921.3  | 862.0  | 777.1  | 644.0  | 477.8  | 327.1  | 196.8  | 92.9   | 18.3  |
| 50°   | 739.8  | 729.6  | 687.1  | 626.4  | 527.6  | 428.8  | 308.8  | 206.4  | 103.9  | 19.0   | 1.5   |
| 52.5° | 409.8  | 416.4  | 393.7  | 373.9  | 322.7  | 256.1  | 182.2  | 104.6  | 22.0   | 2.2    | 1.5   |
| 55°   | 100.3  | 106.1  | 101.7  | 103.9  | 107.6  | 95.9   | 73.9   | 20.5   | 2.2    | 1.5    | 1.5   |
| 57.5° | 2.2    | 2.2    | 2.2    | 2.2    | 3.7    | 5.1    | 5.1    | 1.5    | 1.5    | 1.5    | 1.5   |
| 60°   | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5   |
| 62.5° | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5   |
| 65°   | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5   |
| 67.5° | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5   |
| 70°   | 1.5    | 1.5    | 1.5    | 0.7    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5   |
| 72.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 1.5    | 1.5    | 1.5   |
| 75°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 1.5    | 1.5    | 1.5   |
| 77.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 1.5    | 1.5   |
| 80°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 1.5    | 1.5   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 1.5   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    | 0.7    | 0.7   |
| 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°    | 333.0 | 333.0 | 333.0 | 333.0 | 333.0  | 333.0 | 333.0  | 333.0 |
| 2.5°  | 446.4 | 432.5 | 406.9 | 330.8 | 265.6  | 214.4 | 183.7  | 180.7 |
| 5°    | 552.5 | 515.2 | 461.0 | 310.3 | 196.1  | 124.4 | 90.0   | 84.9  |
| 7.5°  | 636.6 | 584.0 | 500.5 | 276.6 | 133.9  | 63.7  | 35.1   | 29.3  |
| 10°   | 706.2 | 631.5 | 521.0 | 237.1 | 84.2   | 27.1  | 14.6   | 12.4  |
| 12.5° | 753.7 | 663.7 | 524.7 | 193.2 | 48.3   | 13.2  | 9.5    | 8.8   |
| 15°   | 784.5 | 674.0 | 507.1 | 148.5 | 27.1   | 8.8   | 8.0    | 7.3   |
| 17.5° | 796.9 | 665.2 | 473.5 | 107.6 | 14.6   | 6.6   | 6.6    | 6.6   |
| 20°   | 791.0 | 636.6 | 423.7 | 75.4  | 9.5    | 5.9   | 5.9    | 5.9   |
| 22.5° | 763.2 | 587.6 | 361.5 | 50.5  | 6.6    | 5.1   | 5.1    | 5.1   |
| 25°   | 708.4 | 521.0 | 295.6 | 33.7  | 4.4    | 4.4   | 5.1    | 5.1   |
| 27.5° | 626.4 | 439.1 | 226.1 | 22.7  | 3.7    | 4.4   | 5.1    | 5.1   |
| 30°   | 523.2 | 347.6 | 162.5 | 14.6  | 3.7    | 4.4   | 4.4    | 5.1   |
| 32.5° | 415.6 | 253.2 | 106.8 | 8.8   | 2.9    | 4.4   | 5.1    | 5.9   |
| 35°   | 301.5 | 172.7 | 68.1  | 4.4   | 3.7    | 4.4   | 5.1    | 5.9   |
| 37.5° | 211.5 | 112.7 | 39.5  | 2.9   | 3.7    | 4.4   | 5.9    | 5.9   |
| 40°   | 137.6 | 62.9  | 14.6  | 2.2   | 3.7    | 5.1   | 5.9    | 6.6   |
| 42.5° | 71.7  | 22.0  | 2.9   | 2.2   | 3.7    | 5.1   | 6.6    | 7.3   |
| 45°   | 18.3  | 2.9   | 0.7   | 2.2   | 4.4    | 5.9   | 7.3    | 7.3   |
| 47.5° | 2.2   | 0.7   | 0.7   | 2.9   | 4.4    | 6.6   | 7.3    | 8.0   |
| 50°   | 0.7   | 1.5   | 1.5   | 2.9   | 4.4    | 6.6   | 8.0    | 8.8   |
| 52.5° | 1.5   | 1.5   | 1.5   | 2.9   | 5.1    | 6.6   | 8.8    | 9.5   |
| 55°   | 1.5   | 1.5   | 1.5   | 2.9   | 5.1    | 7.3   | 8.8    | 9.5   |
| 57.5° | 1.5   | 1.5   | 1.5   | 2.9   | 5.1    | 7.3   | 8.8    | 8.8   |
| 60°   | 1.5   | 1.5   | 1.5   | 2.9   | 5.1    | 7.3   | 8.8    | 8.8   |
| 62.5° | 1.5   | 1.5   | 2.2   | 2.9   | 5.1    | 6.6   | 8.8    | 8.8   |
| 65°   | 1.5   | 2.2   | 2.2   | 2.9   | 5.1    | 6.6   | 8.0    | 8.8   |
| 67.5° | 1.5   | 1.5   | 2.2   | 2.9   | 5.1    | 6.6   | 8.0    | 8.8   |
| 70°   | 1.5   | 1.5   | 2.2   | 2.9   | 4.4    | 5.9   | 7.3    | 8.0   |
| 72.5° | 1.5   | 1.5   | 2.2   | 2.9   | 4.4    | 5.9   | 6.6    | 7.3   |
| 75°   | 1.5   | 1.5   | 2.2   | 2.9   | 3.7    | 5.1   | 6.6    | 6.6   |
| 77.5° | 1.5   | 1.5   | 2.2   | 2.2   | 3.7    | 4.4   | 5.9    | 5.9   |
| 80°   | 1.5   | 1.5   | 2.2   | 2.2   | 2.9    | 3.7   | 4.4    | 5.1   |
| 82.5° | 1.5   | 1.5   | 1.5   | 2.2   | 2.2    | 2.9   | 3.7    | 3.7   |
| 85°   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5    | 2.2   | 2.2    | 2.2   |
| 87.5° | 0.7   | 1.5   | 1.5   | 1.5   | 1.5    | 1.5   | 1.5    | 0.7   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)