

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: P1308242

Luminaire Tested: P3SQAS17R709030DE010 E3SQCA301MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308242  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS17R709030DE010 E3SQCA301MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 90CRI , E3SQCA301MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

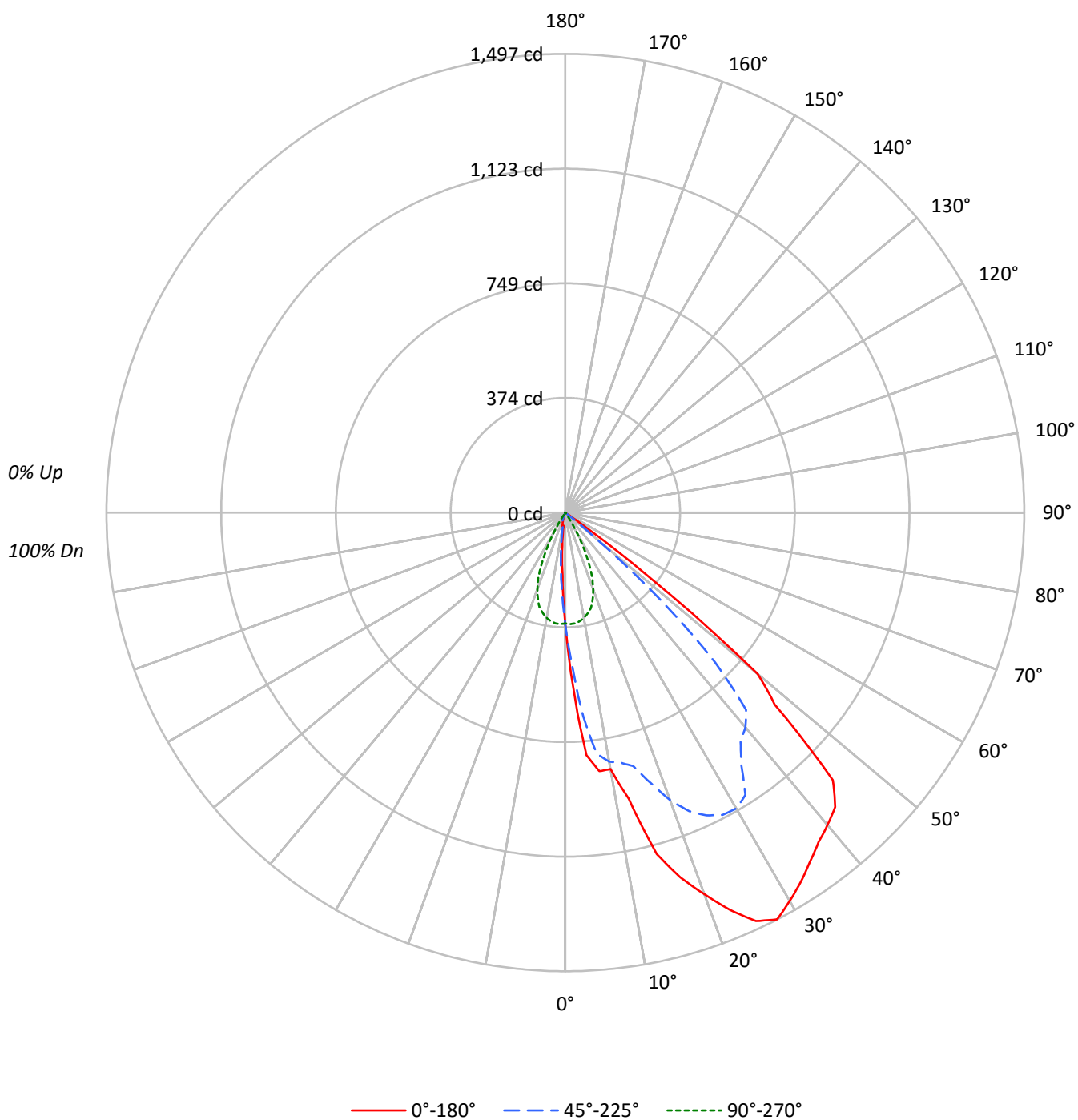
Lumens per Lamp: N/A  
Luminaire Lumens: 974.0 lumens  
Efficiency: N/A  
Efficacy: 45.9 lumens/watt  
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1308242

CATALOG NUMBER: P3SQAS17R709030DE010 E3SQCA301MB

### 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 | 103 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 105 | 99  | 94  | 90  | 103 | 98  | 93  | 89  | 94  | 91  | 87  | 91  | 88  | 85  | 88  | 86  | 84  | 82  |    |    |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 79  | 86  | 81  | 77  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |    |    |
| 4   | 92  | 82  | 76  | 70  | 90  | 81  | 75  | 70  | 79  | 73  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 66  |    |    |
| 5   | 85  | 75  | 68  | 63  | 84  | 74  | 67  | 62  | 72  | 66  | 62  | 70  | 65  | 61  | 69  | 64  | 61  | 59  |    |    |
| 6   | 80  | 69  | 61  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 55  | 53  |    |    |
| 7   | 74  | 63  | 56  | 50  | 73  | 62  | 55  | 50  | 61  | 55  | 50  | 59  | 54  | 50  | 58  | 53  | 49  | 48  |    |    |
| 8   | 69  | 58  | 51  | 46  | 68  | 57  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 43  |    |    |
| 9   | 65  | 53  | 46  | 41  | 64  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 39  |    |    |
| 10  | 61  | 49  | 42  | 38  | 60  | 49  | 42  | 38  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 36  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 62258  | 62258  | 62258 | 62258 | 62258 |
| 5°  | 137336 | 115242 | 62738 | 28508 | 18775 |
| 10° | 148543 | 144223 | 61050 | 7940  | 8167  |
| 15° | 205613 | 152677 | 57590 | 8095  | 5884  |
| 20° | 242840 | 182891 | 48861 | 4783  | 1759  |
| 25° | 279472 | 207129 | 34471 | 779   | 0     |
| 30° | 291099 | 221675 | 15850 | 0     | 0     |
| 35° | 292451 | 210077 | 862   | 0     | 0     |
| 40° | 299124 | 205486 | 0     | 0     | 0     |
| 45° | 300626 | 168397 | 0     | 0     | 0     |
| 50° | 219489 | 34992  | 0     | 0     | 0     |
| 55° | 12371  | 0      | 0     | 0     | 0     |
| 60° | 0      | 482    | 482   | 0     | 0     |
| 65° | 0      | 0      | 571   | 0     | 0     |
| 70° | 0      | 705    | 705   | 0     | 0     |
| 75° | 0      | 932    | 932   | 0     | 0     |
| 80° | 0      | 1389   | 1389  | 1389  | 0     |
| 85° | 0      | 2766   | 2766  | 2766  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 306301 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 39.5   | 4.1       |
| 10°-20°   | 132.1  | 13.6      |
| 20°-30°   | 237.4  | 24.4      |
| 30°-40°   | 288.6  | 29.6      |
| 40°-50°   | 222.8  | 22.9      |
| 50°-60°   | 51.8   | 5.3       |
| 60°-70°   | 0.3    | 0.0       |
| 70°-80°   | 0.7    | 0.1       |
| 80°-90°   | 0.8    | 0.1       |
| 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°    | 409.0  | 42.0      |
| 0°-40°    | 697.5  | 71.6      |
| 0°-60°    | 972.2  | 99.8      |
| 0°-90°    | 974.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 974.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 362  | 362  | 362 | 362  | 362  |      |
| 5°  | 794  | 667  | 363 | 165  | 109  | 75   |
| 15° | 1153 | 856  | 323 | 45   | 33   | 322  |
| 25° | 1471 | 1090 | 181 | 4    | 0    | 669  |
| 35° | 1391 | 999  | 4   | 0    | 0    | 874  |
| 45° | 1234 | 691  | 0   | 0    | 0    | 872  |
| 55° | 41   | 0    | 0   | 0    | 0    | 169  |
| 65° | 0    | 0    | 1   | 0    | 0    | 0    |
| 75° | 0    | 1    | 1   | 0    | 0    | 0    |
| 85° | 0    | 1    | 1   | 1    | 0    | 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°    | 361.5  | 361.5  | 361.5  | 361.5  | 361.5  | 361.5  | 361.5  | 361.5  | 361.5  | 361.5  | 361.5  |
| 2.5°  | 563.5  | 563.5  | 566.3  | 564.9  | 552.5  | 547.0  | 529.2  | 519.5  | 516.8  | 494.8  | 486.6  |
| 5°    | 794.4  | 795.8  | 788.9  | 787.6  | 773.8  | 764.2  | 749.1  | 725.7  | 702.4  | 666.6  | 635.0  |
| 7.5°  | 850.8  | 849.4  | 848.0  | 848.0  | 845.3  | 839.8  | 832.9  | 826.1  | 816.4  | 794.4  | 769.7  |
| 10°   | 849.4  | 849.4  | 848.0  | 848.0  | 846.7  | 848.0  | 846.7  | 842.5  | 838.4  | 824.7  | 810.9  |
| 12.5° | 956.6  | 948.4  | 937.4  | 920.9  | 893.4  | 872.8  | 849.4  | 842.5  | 839.8  | 835.7  | 827.4  |
| 15°   | 1153.2 | 1146.3 | 1122.9 | 1094.1 | 1066.6 | 1019.9 | 982.7  | 931.9  | 892.0  | 856.3  | 838.4  |
| 17.5° | 1248.0 | 1252.1 | 1226.0 | 1208.2 | 1182.0 | 1144.9 | 1101.0 | 1048.7 | 992.4  | 925.0  | 871.4  |
| 20°   | 1325.0 | 1329.1 | 1307.1 | 1289.3 | 1259.0 | 1220.5 | 1182.0 | 1125.7 | 1072.1 | 997.9  | 927.8  |
| 22.5° | 1403.3 | 1406.1 | 1385.5 | 1359.4 | 1325.0 | 1285.1 | 1235.6 | 1177.9 | 1120.2 | 1054.2 | 980.0  |
| 25°   | 1470.7 | 1467.9 | 1433.6 | 1396.5 | 1363.5 | 1320.9 | 1272.8 | 1216.4 | 1161.4 | 1090.0 | 1019.9 |
| 27.5° | 1496.8 | 1495.4 | 1456.9 | 1421.2 | 1382.7 | 1325.0 | 1282.4 | 1232.9 | 1175.2 | 1111.9 | 1040.5 |
| 30°   | 1463.8 | 1485.8 | 1461.1 | 1434.9 | 1388.2 | 1330.5 | 1289.3 | 1230.2 | 1176.5 | 1114.7 | 1033.6 |
| 32.5° | 1429.4 | 1456.9 | 1448.7 | 1436.3 | 1381.3 | 1336.0 | 1282.4 | 1227.4 | 1164.2 | 1092.7 | 969.0  |
| 35°   | 1391.0 | 1419.8 | 1421.2 | 1407.5 | 1358.0 | 1312.6 | 1263.1 | 1205.4 | 1133.9 | 999.2  | 908.5  |
| 37.5° | 1356.6 | 1384.1 | 1392.3 | 1363.5 | 1325.0 | 1264.5 | 1219.2 | 1158.7 | 1029.5 | 938.8  | 892.0  |
| 40°   | 1330.5 | 1351.1 | 1363.5 | 1318.1 | 1279.6 | 1220.5 | 1168.3 | 1062.5 | 945.6  | 914.0  | 848.0  |
| 42.5° | 1303.0 | 1322.2 | 1327.7 | 1278.3 | 1219.2 | 1162.8 | 1087.2 | 953.9  | 919.5  | 872.8  | 695.5  |
| 45°   | 1234.3 | 1257.6 | 1243.9 | 1195.8 | 1151.8 | 1092.7 | 980.0  | 922.3  | 885.2  | 691.4  | 427.5  |
| 47.5° | 926.4  | 952.5  | 989.6  | 1003.4 | 1018.5 | 975.9  | 914.0  | 893.4  | 727.1  | 419.2  | 133.3  |
| 50°   | 819.2  | 815.1  | 815.1  | 821.9  | 834.3  | 848.0  | 865.9  | 753.2  | 437.1  | 130.6  | 0.0    |
| 52.5° | 334.0  | 350.5  | 431.6  | 504.4  | 588.3  | 672.1  | 698.2  | 461.8  | 170.4  | 2.7    | 0.0    |
| 55°   | 41.2   | 41.2   | 57.7   | 99.0   | 163.6  | 263.9  | 296.9  | 148.4  | 12.4   | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 1.4    | 11.0   | 30.2   | 20.6   | 5.5    | 1.4    | 1.4    | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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°    | 361.5 | 361.5 | 361.5 | 361.5 | 361.5  | 361.5 | 361.5  | 361.5 |
| 2.5°  | 472.8 | 456.3 | 433.0 | 364.2 | 305.1  | 252.9 | 222.7  | 207.5 |
| 5°    | 604.8 | 564.9 | 511.3 | 362.9 | 247.4  | 164.9 | 123.7  | 108.6 |
| 7.5°  | 731.2 | 685.9 | 595.1 | 357.4 | 189.7  | 96.2  | 53.6   | 42.6  |
| 10°   | 786.2 | 753.2 | 672.1 | 349.1 | 137.4  | 45.4  | 45.4   | 46.7  |
| 12.5° | 808.2 | 783.4 | 717.5 | 336.7 | 90.7   | 44.0  | 46.7   | 44.0  |
| 15°   | 823.3 | 799.9 | 739.5 | 323.0 | 52.2   | 45.4  | 37.1   | 33.0  |
| 17.5° | 831.6 | 804.1 | 746.3 | 296.9 | 34.4   | 38.5  | 23.4   | 19.2  |
| 20°   | 857.7 | 813.7 | 751.8 | 266.6 | 33.0   | 26.1  | 12.4   | 9.6   |
| 22.5° | 901.7 | 832.9 | 753.2 | 229.5 | 26.1   | 15.1  | 4.1    | 0.0   |
| 25°   | 941.5 | 859.0 | 757.3 | 181.4 | 8.2    | 4.1   | 0.0    | 0.0   |
| 27.5° | 960.8 | 867.3 | 756.0 | 127.8 | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 937.4 | 846.7 | 743.6 | 79.7  | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 882.4 | 831.6 | 705.1 | 34.4  | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 864.5 | 798.6 | 617.1 | 4.1   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 824.7 | 703.7 | 453.6 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 709.2 | 508.6 | 215.8 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 468.7 | 217.2 | 12.4  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 164.9 | 13.7  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 2.7   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 50°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 52.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 55°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 57.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 60°   | 1.4   | 1.4   | 1.4   | 1.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.0   | 0.0   | 1.4   | 1.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 67.5° | 1.4   | 1.4   | 1.4   | 1.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 70°   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4    | 0.0   | 0.0    | 0.0   |
| 72.5° | 1.4   | 1.4   | 1.4   | 1.4   | 1.4    | 0.0   | 0.0    | 0.0   |
| 75°   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.4   | 1.4   | 1.4   | 1.4   | 1.4    | 0.0   | 0.0    | 0.0   |
| 80°   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4    | 1.4   | 0.0    | 0.0   |
| 82.5° | 1.4   | 1.4   | 1.4   | 1.4   | 1.4    | 1.4   | 0.0    | 0.0   |
| 85°   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4    | 1.4   | 0.0    | 0.0   |
| 87.5° | 1.4   | 1.4   | 1.4   | 1.4   | 1.4    | 0.0   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)