

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: P1309204

Luminaire Tested: P3SQAS13R709035DE010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1309204  
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: P3SQAS13R709035DE010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 90CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

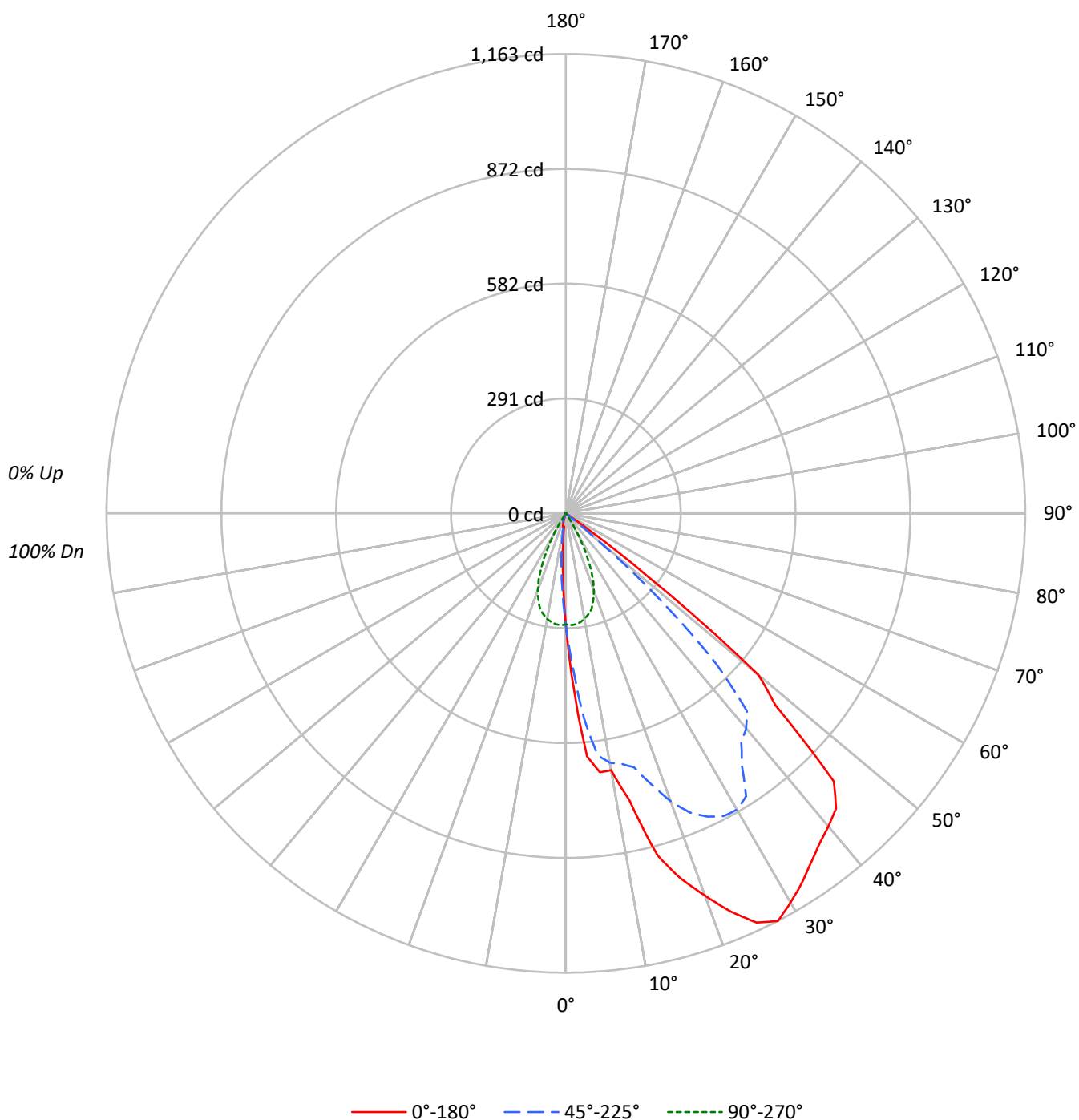
Lumens per Lamp: N/A  
Luminaire Lumens: 757.0 lumens  
Efficiency: N/A  
Efficacy: 51.9 lumens/watt  
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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   | 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  | 90  | 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°  | 48377  | 48377  | 48377 | 48377 | 48377 |
| 5°  | 106736 | 89569  | 48752 | 22163 | 14591 |
| 10° | 115455 | 112080 | 47445 | 6173  | 6348  |
| 15° | 159808 | 118657 | 44753 | 6294  | 4564  |
| 20° | 188737 | 142130 | 37975 | 3720  | 1375  |
| 25° | 217200 | 160972 | 26794 | 608   | 0     |
| 30° | 226249 | 172277 | 12330 | 0     | 0     |
| 35° | 227296 | 163276 | 673   | 0     | 0     |
| 40° | 232487 | 159713 | 0     | 0     | 0     |
| 45° | 233647 | 130865 | 0     | 0     | 0     |
| 50° | 170592 | 27195  | 0     | 0     | 0     |
| 55° | 9608   | 0      | 0     | 0     | 0     |
| 60° | 0      | 379    | 379   | 0     | 0     |
| 65° | 0      | 0      | 448   | 0     | 0     |
| 70° | 0      | 554    | 554   | 0     | 0     |
| 75° | 0      | 732    | 732   | 0     | 0     |
| 80° | 0      | 1091   | 1091  | 1091  | 0     |
| 85° | 0      | 2174   | 2174  | 2174  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 238055 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 30.7   | 4.1       |
| 10°-20°   | 102.6  | 13.6      |
| 20°-30°   | 184.5  | 24.4      |
| 30°-40°   | 224.3  | 29.6      |
| 40°-50°   | 173.2  | 22.9      |
| 50°-60°   | 40.3   | 5.3       |
| 60°-70°   | 0.3    | 0.0       |
| 70°-80°   | 0.6    | 0.1       |
| 80°-90°   | 0.6    | 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°    | 317.9  | 42.0      |
| 0°-40°    | 542.1  | 71.6      |
| 0°-60°    | 755.6  | 99.8      |
| 0°-90°    | 757.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 757.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 281  | 281 | 281 | 281  | 281  |      |
| 5°  | 617  | 518 | 282 | 128  | 84   | 58   |
| 15° | 896  | 666 | 251 | 35   | 26   | 251  |
| 25° | 1143 | 847 | 141 | 3    | 0    | 520  |
| 35° | 1081 | 777 | 3   | 0    | 0    | 679  |
| 45° | 959  | 537 | 0   | 0    | 0    | 678  |
| 55° | 32   | 0   | 0   | 0    | 0    | 132  |
| 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°    | 280.9  | 280.9  | 280.9  | 280.9  | 280.9  | 280.9  | 280.9  | 280.9 | 280.9 | 280.9 | 280.9 |
| 2.5°  | 438.0  | 438.0  | 440.1  | 439.0  | 429.4  | 425.2  | 411.3  | 403.8 | 401.7 | 384.6 | 378.2 |
| 5°    | 617.4  | 618.5  | 613.2  | 612.1  | 601.4  | 593.9  | 582.2  | 564.0 | 545.9 | 518.1 | 493.5 |
| 7.5°  | 661.2  | 660.2  | 659.1  | 659.1  | 657.0  | 652.7  | 647.4  | 642.0 | 634.5 | 617.4 | 598.2 |
| 10°   | 660.2  | 660.2  | 659.1  | 659.1  | 658.0  | 659.1  | 658.0  | 654.8 | 651.6 | 640.9 | 630.3 |
| 12.5° | 743.5  | 737.1  | 728.5  | 715.7  | 694.4  | 678.3  | 660.2  | 654.8 | 652.7 | 649.5 | 643.1 |
| 15°   | 896.3  | 890.9  | 872.8  | 850.3  | 829.0  | 792.6  | 763.8  | 724.3 | 693.3 | 665.5 | 651.6 |
| 17.5° | 970.0  | 973.2  | 952.9  | 939.0  | 918.7  | 889.9  | 855.7  | 815.1 | 771.3 | 718.9 | 677.3 |
| 20°   | 1029.8 | 1033.0 | 1015.9 | 1002.0 | 978.5  | 948.6  | 918.7  | 874.9 | 833.2 | 775.5 | 721.1 |
| 22.5° | 1090.7 | 1092.8 | 1076.8 | 1056.5 | 1029.8 | 998.8  | 960.4  | 915.5 | 870.6 | 819.3 | 761.7 |
| 25°   | 1143.0 | 1140.9 | 1114.2 | 1085.3 | 1059.7 | 1026.6 | 989.2  | 945.4 | 902.7 | 847.1 | 792.6 |
| 27.5° | 1163.3 | 1162.3 | 1132.3 | 1104.6 | 1074.7 | 1029.8 | 996.7  | 958.2 | 913.4 | 864.2 | 808.7 |
| 30°   | 1137.7 | 1154.8 | 1135.5 | 1115.3 | 1078.9 | 1034.1 | 1002.0 | 956.1 | 914.4 | 866.3 | 803.3 |
| 32.5° | 1111.0 | 1132.3 | 1125.9 | 1116.3 | 1073.6 | 1038.3 | 996.7  | 953.9 | 904.8 | 849.3 | 753.1 |
| 35°   | 1081.1 | 1103.5 | 1104.6 | 1093.9 | 1055.4 | 1020.2 | 981.7  | 936.9 | 881.3 | 776.6 | 706.1 |
| 37.5° | 1054.4 | 1075.7 | 1082.1 | 1059.7 | 1029.8 | 982.8  | 947.5  | 900.5 | 800.1 | 729.6 | 693.3 |
| 40°   | 1034.1 | 1050.1 | 1059.7 | 1024.4 | 994.5  | 948.6  | 908.0  | 825.8 | 735.0 | 710.4 | 659.1 |
| 42.5° | 1012.7 | 1027.7 | 1031.9 | 993.5  | 947.5  | 903.7  | 845.0  | 741.4 | 714.7 | 678.3 | 540.5 |
| 45°   | 959.3  | 977.4  | 966.8  | 929.4  | 895.2  | 849.3  | 761.7  | 716.8 | 688.0 | 537.3 | 332.2 |
| 47.5° | 720.0  | 740.3  | 769.1  | 779.8  | 791.6  | 758.5  | 710.4  | 694.4 | 565.1 | 325.8 | 103.6 |
| 50°   | 636.7  | 633.5  | 633.5  | 638.8  | 648.4  | 659.1  | 673.0  | 585.4 | 339.7 | 101.5 | 0.0   |
| 52.5° | 259.6  | 272.4  | 335.4  | 392.0  | 457.2  | 522.4  | 542.7  | 358.9 | 132.5 | 2.1   | 0.0   |
| 55°   | 32.0   | 32.0   | 44.9   | 76.9   | 127.1  | 205.1  | 230.7  | 115.4 | 9.6   | 0.0   | 0.0   |
| 57.5° | 0.0    | 0.0    | 0.0    | 1.1    | 8.5    | 23.5   | 16.0   | 4.3   | 1.1   | 1.1   | 0.0   |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.1   | 1.1   | 1.1   | 1.1   |
| 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   | 1.1   | 1.1   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 1.1   | 1.1   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 1.1   | 1.1   | 1.1   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.1   | 1.1   | 1.1   | 1.1   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.1   | 1.1   | 1.1   | 1.1   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 1.1   | 1.1   | 1.1   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 1.1   | 1.1   | 1.1   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 1.1   | 1.1   | 1.1   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 1.1   | 1.1   | 1.1   |
| 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°    | 280.9 | 280.9 | 280.9 | 280.9 | 280.9  | 280.9 | 280.9  | 280.9 |
| 2.5°  | 367.5 | 354.7 | 336.5 | 283.1 | 237.2  | 196.6 | 173.1  | 161.3 |
| 5°    | 470.0 | 439.0 | 397.4 | 282.0 | 192.3  | 128.2 | 96.1   | 84.4  |
| 7.5°  | 568.3 | 533.1 | 462.6 | 277.7 | 147.4  | 74.8  | 41.7   | 33.1  |
| 10°   | 611.0 | 585.4 | 522.4 | 271.3 | 106.8  | 35.3  | 35.3   | 36.3  |
| 12.5° | 628.1 | 608.9 | 557.6 | 261.7 | 70.5   | 34.2  | 36.3   | 34.2  |
| 15°   | 639.9 | 621.7 | 574.7 | 251.0 | 40.6   | 35.3  | 28.8   | 25.6  |
| 17.5° | 646.3 | 624.9 | 580.1 | 230.7 | 26.7   | 29.9  | 18.2   | 15.0  |
| 20°   | 666.6 | 632.4 | 584.3 | 207.2 | 25.6   | 20.3  | 9.6    | 7.5   |
| 22.5° | 700.8 | 647.4 | 585.4 | 178.4 | 20.3   | 11.8  | 3.2    | 0.0   |
| 25°   | 731.7 | 667.7 | 588.6 | 141.0 | 6.4    | 3.2   | 0.0    | 0.0   |
| 27.5° | 746.7 | 674.1 | 587.5 | 99.3  | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 728.5 | 658.0 | 577.9 | 62.0  | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 685.8 | 646.3 | 548.0 | 26.7  | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 671.9 | 620.7 | 479.6 | 3.2   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 640.9 | 546.9 | 352.5 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 551.2 | 395.3 | 167.7 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 364.3 | 168.8 | 9.6   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 128.2 | 10.7  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 2.1   | 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°   | 1.1   | 1.1   | 1.1   | 1.1   | 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   | 1.1   | 1.1   | 0.0    | 0.0   | 0.0    | 0.0   |
| 67.5° | 1.1   | 1.1   | 1.1   | 1.1   | 0.0    | 0.0   | 0.0    | 0.0   |
| 70°   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1    | 0.0   | 0.0    | 0.0   |
| 72.5° | 1.1   | 1.1   | 1.1   | 1.1   | 1.1    | 0.0   | 0.0    | 0.0   |
| 75°   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.1   | 1.1   | 1.1   | 1.1   | 1.1    | 0.0   | 0.0    | 0.0   |
| 80°   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1    | 1.1   | 0.0    | 0.0   |
| 82.5° | 1.1   | 1.1   | 1.1   | 1.1   | 1.1    | 1.1   | 0.0    | 0.0   |
| 85°   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1    | 1.1   | 0.0    | 0.0   |
| 87.5° | 1.1   | 1.1   | 1.1   | 1.1   | 1.1    | 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)