

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: P1311218

Luminaire Tested: P3SQAS09R609050DE010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311218  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-55)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS09R609050DE010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R60 optic, 5000K CCT AND, 90CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

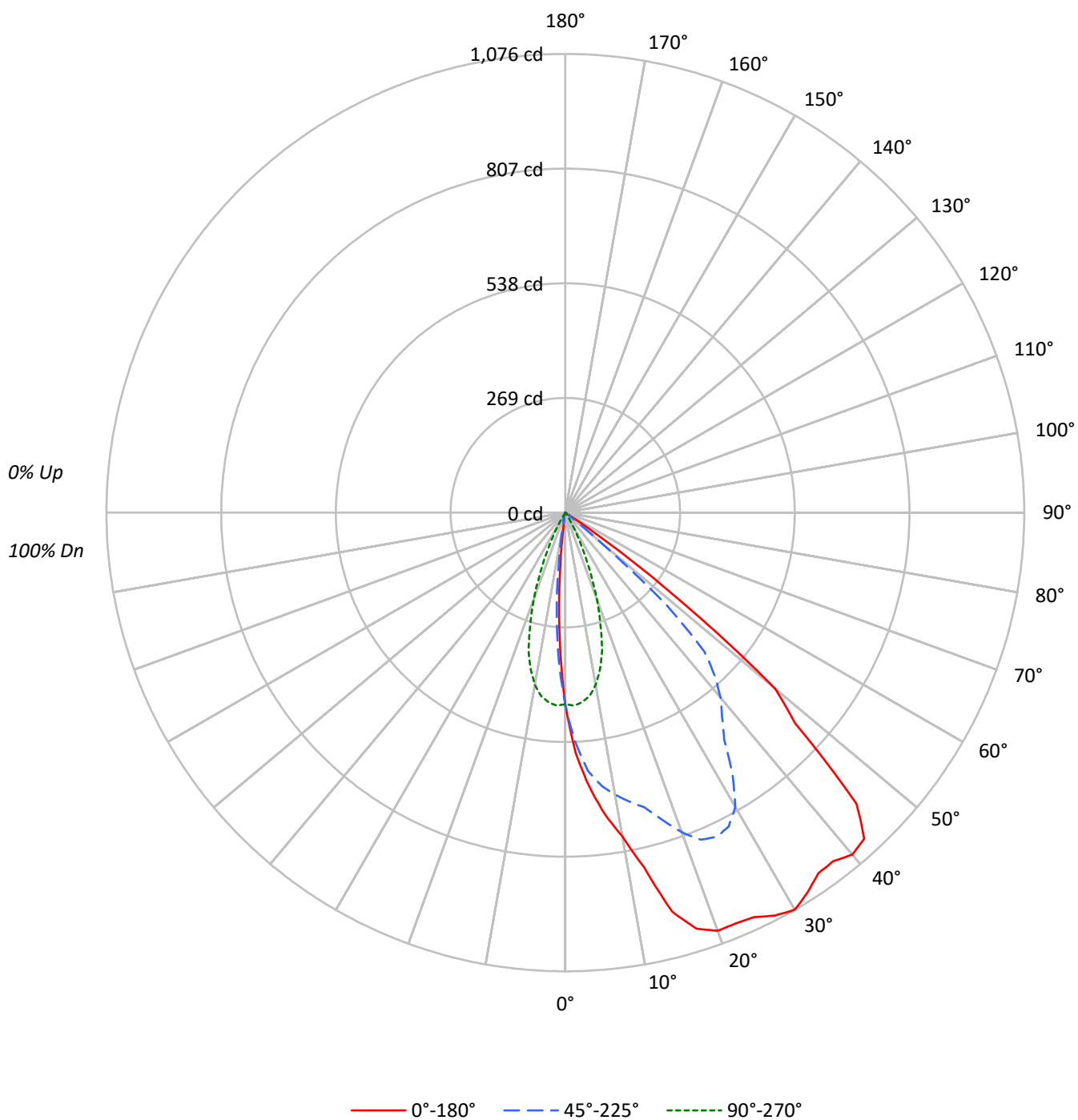
Lumens per Lamp: N/A  
Luminaire Lumens: 730.0 lumens  
Efficiency: N/A  
Efficacy: 65.8 lumens/watt  
Spacing Criteria (0/90/45): 1.74 / 0.65 / 1.25  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

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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  | 94  | 91  | 88  | 91  | 88  | 86  | 89  | 86  | 84  | 82  |    |    |
| 3   | 99  | 91  | 85  | 80  | 96  | 89  | 84  | 79  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 78  | 76  | 74  |    |    |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 69  | 75  | 71  | 68  | 66  |    |    |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 63  | 73  | 67  | 63  | 71  | 66  | 62  | 69  | 65  | 61  | 60  |    |    |
| 6   | 80  | 69  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 56  | 54  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 51  | 62  | 56  | 51  | 60  | 55  | 51  | 59  | 54  | 50  | 49  |    |    |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |    |    |
| 9   | 66  | 55  | 47  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 48  | 42  | 39  | 37  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 77345  | 77345  | 77345 | 77345 | 77345 |
| 5°  | 111491 | 105008 | 77226 | 39797 | 25552 |
| 10° | 134867 | 117397 | 71701 | 4757  | 2798  |
| 15° | 172842 | 127537 | 59427 | 3138  | 2567  |
| 20° | 191285 | 146181 | 39844 | 1759  | 293   |
| 25° | 198939 | 159451 | 19592 | 152   | 0     |
| 30° | 213920 | 158456 | 5409  | 0     | 0     |
| 35° | 217246 | 136428 | 0     | 0     | 0     |
| 40° | 235365 | 127204 | 0     | 0     | 0     |
| 45° | 235132 | 112305 | 0     | 0     | 0     |
| 50° | 172146 | 27195  | 0     | 0     | 0     |
| 55° | 33599  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 0     | 0     | 0     |
| 65° | 0      | 326    | 326   | 0     | 0     |
| 70° | 0      | 403    | 403   | 0     | 0     |
| 75° | 0      | 532    | 532   | 0     | 0     |
| 80° | 0      | 793    | 793   | 793   | 0     |
| 85° | 0      | 1581   | 1581  | 1581  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 235522 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 38.6   | 5.3       |
| 10°-20°   | 109.9  | 15.0      |
| 20°-30°   | 175.0  | 24.0      |
| 30°-40°   | 202.3  | 27.7      |
| 40°-50°   | 160.7  | 22.0      |
| 50°-60°   | 42.3   | 5.8       |
| 60°-70°   | 0.3    | 0.0       |
| 70°-80°   | 0.5    | 0.1       |
| 80°-90°   | 0.5    | 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°    | 323.5  | 44.3      |
| 0°-40°    | 525.8  | 72.0      |
| 0°-60°    | 728.8  | 99.8      |
| 0°-90°    | 730.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 730.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 449  | 449 | 449 | 449  | 449  |      |
| 5°  | 645  | 607 | 447 | 230  | 148  | 65   |
| 15° | 969  | 715 | 333 | 18   | 14   | 270  |
| 25° | 1047 | 839 | 103 | 1    | 0    | 488  |
| 35° | 1033 | 649 | 0   | 0    | 0    | 656  |
| 45° | 965  | 461 | 0   | 0    | 0    | 687  |
| 55° | 112  | 0   | 0   | 0    | 0    | 169  |
| 65° | 0    | 1   | 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°    | 449.1  | 449.1  | 449.1  | 449.1  | 449.1  | 449.1  | 449.1  | 449.1  | 449.1 | 449.1 | 449.1 |
| 2.5°  | 565.0  | 570.6  | 568.2  | 565.8  | 560.2  | 557.8  | 557.8  | 551.4  | 541.0 | 539.5 | 532.3 |
| 5°    | 644.9  | 646.5  | 646.5  | 644.9  | 640.9  | 634.6  | 633.0  | 626.6  | 617.0 | 607.4 | 597.8 |
| 7.5°  | 714.5  | 713.7  | 708.9  | 705.7  | 698.5  | 689.7  | 681.7  | 672.9  | 658.5 | 645.7 | 632.2 |
| 10°   | 771.2  | 773.6  | 769.6  | 761.6  | 752.0  | 740.0  | 727.3  | 712.1  | 690.5 | 671.3 | 653.7 |
| 12.5° | 851.1  | 850.3  | 839.9  | 826.4  | 803.2  | 780.8  | 760.8  | 744.0  | 717.7 | 694.5 | 672.9 |
| 15°   | 969.4  | 967.8  | 958.2  | 946.2  | 912.7  | 879.1  | 844.7  | 797.6  | 753.6 | 715.3 | 684.9 |
| 17.5° | 1023.0 | 1026.2 | 1018.2 | 1011.8 | 992.6  | 970.2  | 939.8  | 892.7  | 824.8 | 755.2 | 691.3 |
| 20°   | 1043.7 | 1047.7 | 1042.1 | 1041.3 | 1032.5 | 1022.2 | 997.4  | 946.2  | 879.9 | 797.6 | 718.5 |
| 22.5° | 1042.9 | 1046.1 | 1043.7 | 1054.1 | 1064.5 | 1058.9 | 1028.6 | 977.4  | 909.5 | 830.4 | 740.8 |
| 25°   | 1046.9 | 1044.5 | 1035.7 | 1050.9 | 1066.1 | 1061.3 | 1046.1 | 1002.2 | 927.9 | 839.1 | 748.8 |
| 27.5° | 1065.3 | 1047.7 | 1030.2 | 1049.3 | 1056.5 | 1058.1 | 1049.3 | 997.4  | 924.7 | 829.6 | 732.9 |
| 30°   | 1075.7 | 1056.5 | 1042.1 | 1058.1 | 1058.1 | 1066.9 | 1048.5 | 989.4  | 897.5 | 796.8 | 690.5 |
| 32.5° | 1056.5 | 1052.5 | 1065.3 | 1081.3 | 1085.3 | 1085.3 | 1044.5 | 963.0  | 851.9 | 729.7 | 622.6 |
| 35°   | 1033.3 | 1042.9 | 1079.7 | 1086.9 | 1086.9 | 1069.3 | 1019.8 | 916.7  | 784.0 | 648.9 | 572.2 |
| 37.5° | 1031.0 | 1046.1 | 1086.9 | 1078.1 | 1063.7 | 1031.0 | 959.0  | 835.9  | 687.3 | 603.4 | 534.7 |
| 40°   | 1046.9 | 1061.3 | 1085.3 | 1053.3 | 1019.0 | 967.8  | 881.5  | 730.5  | 629.0 | 565.8 | 489.1 |
| 42.5° | 1037.3 | 1050.9 | 1051.7 | 1004.6 | 955.8  | 886.3  | 772.0  | 644.9  | 586.6 | 517.9 | 437.2 |
| 45°   | 965.4  | 967.0  | 963.8  | 913.5  | 863.1  | 791.2  | 669.7  | 602.6  | 540.2 | 461.1 | 321.3 |
| 47.5° | 729.7  | 726.5  | 738.4  | 724.1  | 726.5  | 683.3  | 608.2  | 553.0  | 478.7 | 323.7 | 97.5  |
| 50°   | 642.5  | 638.5  | 626.6  | 613.8  | 601.0  | 580.2  | 545.0  | 485.9  | 345.2 | 101.5 | 3.2   |
| 52.5° | 344.4  | 363.6  | 401.2  | 458.7  | 480.3  | 478.7  | 452.3  | 359.6  | 108.7 | 0.8   | 0.0   |
| 55°   | 111.9  | 110.3  | 123.1  | 145.5  | 199.8  | 230.2  | 239.8  | 122.3  | 2.4   | 0.0   | 0.0   |
| 57.5° | 0.0    | 0.0    | 0.0    | 2.4    | 8.0    | 20.8   | 27.2   | 1.6    | 0.0   | 0.8   | 0.0   |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8   | 0.0   | 0.0   |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.8   | 0.8   |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8   | 0.8   | 0.8   |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8   | 0.8   | 0.8   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8   | 0.8   | 0.8   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8   | 0.8   | 0.8   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8   | 0.8   | 0.8   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8   | 0.8   | 0.8   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8   | 0.8   | 0.8   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8   | 0.8   | 0.8   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8   | 0.8   | 0.8   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8   | 0.8   | 0.8   |
| 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°    | 449.1 | 449.1 | 449.1 | 449.1 | 449.1  | 449.1 | 449.1  | 449.1 |
| 2.5°  | 522.7 | 511.5 | 498.7 | 453.1 | 399.6  | 347.6 | 310.1  | 300.5 |
| 5°    | 582.6 | 563.4 | 536.3 | 446.7 | 330.1  | 230.2 | 164.6  | 147.8 |
| 7.5°  | 613.8 | 597.0 | 568.2 | 434.0 | 255.7  | 113.5 | 42.4   | 28.8  |
| 10°   | 633.0 | 613.0 | 581.0 | 410.0 | 167.0  | 27.2  | 15.2   | 16.0  |
| 12.5° | 646.5 | 623.4 | 587.4 | 375.6 | 84.7   | 13.6  | 19.2   | 20.0  |
| 15°   | 652.1 | 627.4 | 586.6 | 333.3 | 30.4   | 17.6  | 16.8   | 14.4  |
| 17.5° | 648.9 | 617.8 | 576.2 | 272.5 | 10.4   | 16.8  | 8.8    | 7.2   |
| 20°   | 644.9 | 609.8 | 559.4 | 217.4 | 8.8    | 9.6   | 3.2    | 1.6   |
| 22.5° | 657.7 | 596.2 | 536.3 | 155.8 | 8.8    | 3.2   | 0.0    | 0.0   |
| 25°   | 659.3 | 590.6 | 506.7 | 103.1 | 4.0    | 0.8   | 0.0    | 0.0   |
| 27.5° | 643.3 | 557.8 | 461.1 | 60.7  | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 592.2 | 517.1 | 412.4 | 27.2  | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 541.8 | 471.5 | 358.0 | 6.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 501.9 | 424.4 | 298.1 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 452.3 | 368.4 | 222.2 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 400.4 | 297.3 | 111.1 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 312.5 | 141.5 | 11.2  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 119.9 | 12.8  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 6.4   | 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°   | 0.8   | 0.8   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.8   | 0.8   | 0.8   | 0.8   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.8   | 0.8   | 0.8   | 0.8   | 0.0    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.8   | 0.8   | 0.8   | 0.8   | 0.8    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.8   | 0.8   | 0.8   | 0.8   | 0.8    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8    | 0.0   | 0.0    | 0.0   |
| 77.5° | 0.8   | 0.8   | 0.8   | 0.8   | 0.8    | 0.0   | 0.0    | 0.0   |
| 80°   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8    | 0.8   | 0.0    | 0.0   |
| 82.5° | 0.8   | 0.8   | 0.8   | 0.8   | 0.8    | 0.0   | 0.0    | 0.0   |
| 85°   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8    | 0.8   | 0.0    | 0.0   |
| 87.5° | 0.8   | 0.8   | 0.8   | 0.8   | 0.8    | 0.8   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)