

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: P1305814

Luminaire Tested: P3SQASS09R609024DE010 E3SQCA301MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1305814  
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: P3SQASS09R609024DE010 E3SQCA301MB  
Description: 3in Adjustable LED luminaire with, R60 optic, 2400K CCT AND, 90CRI , E3SQCA301MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

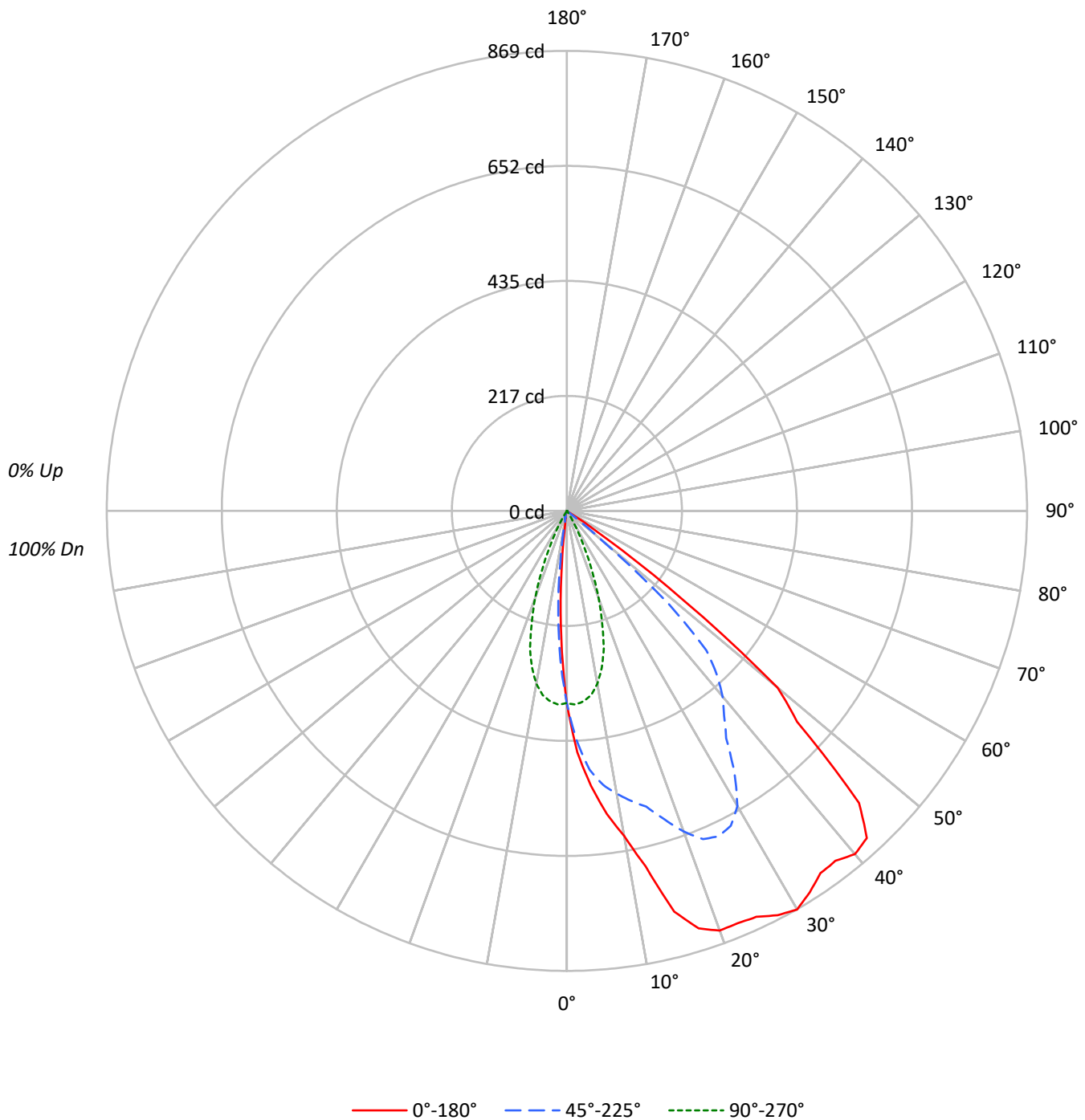
Lumens per Lamp: N/A  
Luminaire Lumens: 589.9 lumens  
Efficiency: N/A  
Efficacy: 53.1 lumens/watt  
Spacing Criteria (0/90/45): 1.74 / 0.65 / 1.25  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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°  | 62517  | 62517  | 62517 | 62517 | 62517 |
| 5°  | 90123  | 84867  | 62427 | 32156 | 20659 |
| 10° | 109002 | 94890  | 57955 | 3847  | 2256  |
| 15° | 139696 | 103074 | 48016 | 2532  | 2068  |
| 20° | 154611 | 118139 | 32202 | 1430  | 238   |
| 25° | 160801 | 128876 | 15829 | 114   | 0     |
| 30° | 172894 | 128069 | 4375  | 0     | 0     |
| 35° | 175597 | 110274 | 0     | 0     | 0     |
| 40° | 190243 | 102811 | 0     | 0     | 0     |
| 45° | 190050 | 90775  | 0     | 0     | 0     |
| 50° | 139136 | 21970  | 0     | 0     | 0     |
| 55° | 27144  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 0     | 0     | 0     |
| 65° | 0      | 245    | 245   | 0     | 0     |
| 70° | 0      | 302    | 302   | 0     | 0     |
| 75° | 0      | 399    | 399   | 0     | 0     |
| 80° | 0      | 595    | 595   | 595   | 0     |
| 85° | 0      | 1186   | 1186  | 1186  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 190366 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 31.2   | 5.3       |
| 10°-20°   | 88.8   | 15.0      |
| 20°-30°   | 141.5  | 24.0      |
| 30°-40°   | 163.5  | 27.7      |
| 40°-50°   | 129.9  | 22.0      |
| 50°-60°   | 34.2   | 5.8       |
| 60°-70°   | 0.2    | 0.0       |
| 70°-80°   | 0.3    | 0.1       |
| 80°-90°   | 0.3    | 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°    | 261.4  | 44.3      |
| 0°-40°    | 425.0  | 72.0      |
| 0°-60°    | 589.0  | 99.8      |
| 0°-90°    | 589.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 589.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 363 | 363 | 363 | 363  | 363  |      |
| 5°  | 521 | 491 | 361 | 186  | 120  | 53   |
| 15° | 784 | 578 | 269 | 14   | 12   | 218  |
| 25° | 846 | 678 | 83  | 1    | 0    | 395  |
| 35° | 835 | 524 | 0   | 0    | 0    | 530  |
| 45° | 780 | 373 | 0   | 0    | 0    | 556  |
| 55° | 90  | 0   | 0   | 0    | 0    | 136  |
| 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°    | 363.0 | 363.0 | 363.0 | 363.0 | 363.0 | 363.0 | 363.0 | 363.0 | 363.0 | 363.0 | 363.0 |
| 2.5°  | 456.7 | 461.2 | 459.2 | 457.3 | 452.8 | 450.9 | 450.9 | 445.7 | 437.3 | 436.0 | 430.2 |
| 5°    | 521.3 | 522.5 | 522.5 | 521.3 | 518.0 | 512.9 | 511.6 | 506.4 | 498.6 | 490.9 | 483.1 |
| 7.5°  | 577.5 | 576.8 | 572.9 | 570.3 | 564.5 | 557.4 | 551.0 | 543.9 | 532.2 | 521.9 | 510.9 |
| 10°   | 623.3 | 625.2 | 622.0 | 615.6 | 607.8 | 598.1 | 587.8 | 575.5 | 558.1 | 542.6 | 528.4 |
| 12.5° | 687.9 | 687.3 | 678.9 | 667.9 | 649.1 | 631.1 | 614.9 | 601.3 | 580.0 | 561.3 | 543.9 |
| 15°   | 783.5 | 782.2 | 774.5 | 764.8 | 737.6 | 710.5 | 682.7 | 644.6 | 609.1 | 578.1 | 553.6 |
| 17.5° | 826.8 | 829.4 | 822.9 | 817.7 | 802.2 | 784.1 | 759.6 | 721.5 | 666.6 | 610.4 | 558.7 |
| 20°   | 843.6 | 846.8 | 842.3 | 841.6 | 834.5 | 826.1 | 806.1 | 764.8 | 711.2 | 644.6 | 580.7 |
| 22.5° | 842.9 | 845.5 | 843.6 | 852.0 | 860.4 | 855.8 | 831.3 | 790.0 | 735.1 | 671.1 | 598.8 |
| 25°   | 846.2 | 844.2 | 837.1 | 849.4 | 861.7 | 857.8 | 845.5 | 810.0 | 749.9 | 678.2 | 605.2 |
| 27.5° | 861.0 | 846.8 | 832.6 | 848.1 | 853.9 | 855.2 | 848.1 | 806.1 | 747.3 | 670.5 | 592.3 |
| 30°   | 869.4 | 853.9 | 842.3 | 855.2 | 855.2 | 862.3 | 847.4 | 799.6 | 725.4 | 644.0 | 558.1 |
| 32.5° | 853.9 | 850.7 | 861.0 | 873.9 | 877.2 | 877.2 | 844.2 | 778.3 | 688.5 | 589.7 | 503.2 |
| 35°   | 835.2 | 842.9 | 872.6 | 878.4 | 878.4 | 864.2 | 824.2 | 740.9 | 633.6 | 524.5 | 462.5 |
| 37.5° | 833.2 | 845.5 | 878.4 | 871.3 | 859.7 | 833.2 | 775.1 | 675.6 | 555.5 | 487.7 | 432.1 |
| 40°   | 846.2 | 857.8 | 877.2 | 851.3 | 823.5 | 782.2 | 712.4 | 590.4 | 508.3 | 457.3 | 395.3 |
| 42.5° | 838.4 | 849.4 | 850.0 | 811.9 | 772.5 | 716.3 | 624.0 | 521.3 | 474.1 | 418.6 | 353.3 |
| 45°   | 780.3 | 781.6 | 779.0 | 738.3 | 697.6 | 639.5 | 541.3 | 487.0 | 436.6 | 372.7 | 259.7 |
| 47.5° | 589.7 | 587.1 | 596.8 | 585.2 | 587.1 | 552.3 | 491.5 | 447.0 | 386.9 | 261.6 | 78.8  |
| 50°   | 519.3 | 516.1 | 506.4 | 496.1 | 485.7 | 468.9 | 440.5 | 392.7 | 279.0 | 82.0  | 2.6   |
| 52.5° | 278.4 | 293.9 | 324.3 | 370.8 | 388.2 | 386.9 | 365.6 | 290.7 | 87.8  | 0.6   | 0.0   |
| 55°   | 90.4  | 89.1  | 99.5  | 117.6 | 161.5 | 186.0 | 193.8 | 98.8  | 1.9   | 0.0   | 0.0   |
| 57.5° | 0.0   | 0.0   | 0.0   | 1.9   | 6.5   | 16.8  | 22.0  | 1.3   | 0.0   | 0.6   | 0.0   |
| 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.0   | 0.0   |
| 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.6   |
| 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.6   | 0.6   |
| 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.6   | 0.6   | 0.6   |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.6   | 0.6   | 0.6   |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.6   | 0.6   |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.6   | 0.6   | 0.6   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.6   | 0.6   | 0.6   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 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°    | 363.0 | 363.0 | 363.0 | 363.0 | 363.0  | 363.0 | 363.0  | 363.0 |
| 2.5°  | 422.4 | 413.4 | 403.1 | 366.2 | 323.0  | 281.0 | 250.6  | 242.9 |
| 5°    | 470.9 | 455.4 | 433.4 | 361.1 | 266.8  | 186.0 | 133.1  | 119.5 |
| 7.5°  | 496.1 | 482.5 | 459.2 | 350.7 | 206.7  | 91.7  | 34.2   | 23.3  |
| 10°   | 511.6 | 495.4 | 469.6 | 331.4 | 135.0  | 22.0  | 12.3   | 12.9  |
| 12.5° | 522.5 | 503.8 | 474.7 | 303.6 | 68.5   | 11.0  | 15.5   | 16.1  |
| 15°   | 527.1 | 507.0 | 474.1 | 269.3 | 24.5   | 14.2  | 13.6   | 11.6  |
| 17.5° | 524.5 | 499.3 | 465.7 | 220.3 | 8.4    | 13.6  | 7.1    | 5.8   |
| 20°   | 521.3 | 492.8 | 452.1 | 175.7 | 7.1    | 7.8   | 2.6    | 1.3   |
| 22.5° | 531.6 | 481.9 | 433.4 | 126.0 | 7.1    | 2.6   | 0.0    | 0.0   |
| 25°   | 532.9 | 477.3 | 409.5 | 83.3  | 3.2    | 0.6   | 0.0    | 0.0   |
| 27.5° | 520.0 | 450.9 | 372.7 | 49.1  | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 478.6 | 417.9 | 333.3 | 22.0  | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 437.9 | 381.1 | 289.4 | 5.2   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 405.6 | 343.0 | 240.9 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 365.6 | 297.8 | 179.6 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 323.6 | 240.3 | 89.8  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 252.6 | 114.3 | 9.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 96.9  | 10.3  | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 5.2   | 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°   | 0.6   | 0.6   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.6   | 0.6   | 0.6   | 0.6   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.6   | 0.6   | 0.6   | 0.6   | 0.0    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.6   | 0.6   | 0.6   | 0.6   | 0.6    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.6   | 0.6   | 0.6   | 0.6   | 0.6    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6    | 0.0   | 0.0    | 0.0   |
| 77.5° | 0.6   | 0.6   | 0.6   | 0.6   | 0.6    | 0.0   | 0.0    | 0.0   |
| 80°   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6    | 0.6   | 0.0    | 0.0   |
| 82.5° | 0.6   | 0.6   | 0.6   | 0.6   | 0.6    | 0.0   | 0.0    | 0.0   |
| 85°   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6    | 0.6   | 0.0    | 0.0   |
| 87.5° | 0.6   | 0.6   | 0.6   | 0.6   | 0.6    | 0.6   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)