

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: P1317195

Luminaire Tested: P3SQAS13R709830DE010 E3SQCA301MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317195  
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: P3SQAS13R709830DE010 E3SQCA301MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 98CRI , E3SQCA301MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

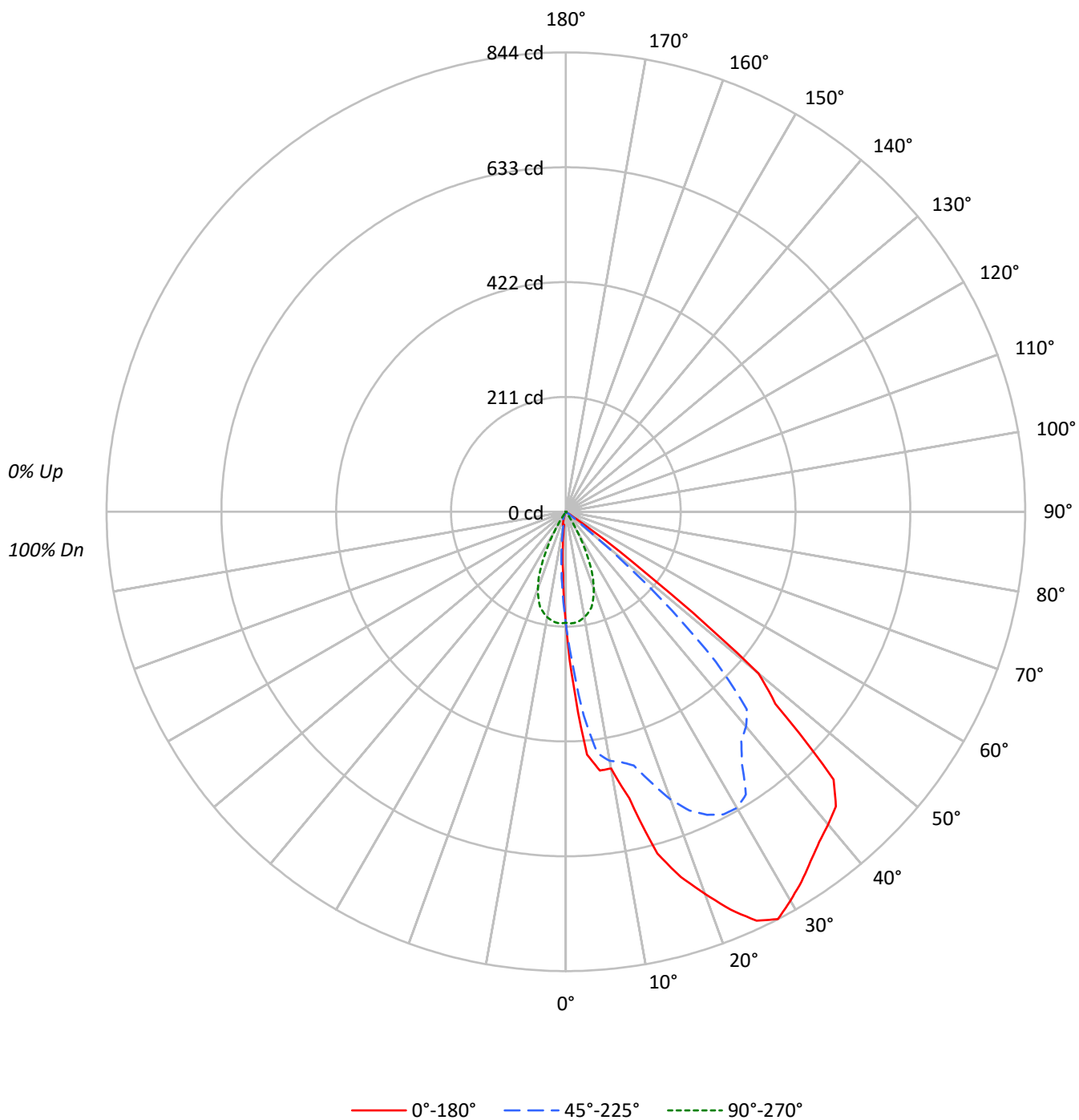
Lumens per Lamp: N/A  
Luminaire Lumens: 549.0 lumens  
Efficiency: N/A  
Efficacy: 37.9 lumens/watt  
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
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: P1317195

CATALOG NUMBER: P3SQAS13R709830DE010 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  | 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°  | 35099  | 35099  | 35099 | 35099 | 35099 |
| 5°  | 77416  | 64951  | 35354 | 16078 | 10580 |
| 10° | 83732  | 81284  | 34416 | 4477  | 4599  |
| 15° | 115894 | 86064  | 32468 | 4564  | 3316  |
| 20° | 136870 | 103092 | 27546 | 2694  | 990   |
| 25° | 157532 | 116752 | 19440 | 437   | 0     |
| 30° | 164084 | 124947 | 8929  | 0     | 0     |
| 35° | 164832 | 118410 | 484   | 0     | 0     |
| 40° | 168593 | 115828 | 0     | 0     | 0     |
| 45° | 169444 | 94915  | 0     | 0     | 0     |
| 50° | 123704 | 19720  | 0     | 0     | 0     |
| 55° | 6966   | 0      | 0     | 0     | 0     |
| 60° | 0      | 276    | 276   | 0     | 0     |
| 65° | 0      | 0      | 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: 172659 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 22.3   | 4.1       |
| 10°-20°   | 74.4   | 13.6      |
| 20°-30°   | 133.8  | 24.4      |
| 30°-40°   | 162.7  | 29.6      |
| 40°-50°   | 125.6  | 22.9      |
| 50°-60°   | 29.2   | 5.3       |
| 60°-70°   | 0.2    | 0.0       |
| 70°-80°   | 0.4    | 0.1       |
| 80°-90°   | 0.4    | 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°    | 230.5  | 42.0      |
| 0°-40°    | 393.2  | 71.6      |
| 0°-60°    | 548.0  | 99.8      |
| 0°-90°    | 549.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 549.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 204 | 204 | 204 | 204  | 204  |      |
| 5°  | 448 | 376 | 204 | 93   | 61   | 42   |
| 15° | 650 | 483 | 182 | 26   | 19   | 182  |
| 25° | 829 | 614 | 102 | 2    | 0    | 377  |
| 35° | 784 | 563 | 2   | 0    | 0    | 492  |
| 45° | 696 | 390 | 0   | 0    | 0    | 492  |
| 55° | 23  | 0   | 0   | 0    | 0    | 96   |
| 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°    | 203.8 | 203.8 | 203.8 | 203.8 | 203.8 | 203.8 | 203.8 | 203.8 | 203.8 | 203.8 | 203.8 |
| 2.5°  | 317.6 | 317.6 | 319.2 | 318.4 | 311.4 | 308.3 | 298.3 | 292.8 | 291.3 | 278.9 | 274.3 |
| 5°    | 447.8 | 448.6 | 444.7 | 443.9 | 436.2 | 430.7 | 422.2 | 409.1 | 395.9 | 375.7 | 357.9 |
| 7.5°  | 479.6 | 478.8 | 478.0 | 478.0 | 476.5 | 473.4 | 469.5 | 465.6 | 460.2 | 447.8 | 433.8 |
| 10°   | 478.8 | 478.8 | 478.0 | 478.0 | 477.2 | 478.0 | 477.2 | 474.9 | 472.6 | 464.8 | 457.1 |
| 12.5° | 539.2 | 534.6 | 528.4 | 519.1 | 503.6 | 492.0 | 478.8 | 474.9 | 473.4 | 471.0 | 466.4 |
| 15°   | 650.0 | 646.1 | 633.0 | 616.7 | 601.2 | 574.8 | 553.9 | 525.3 | 502.8 | 482.7 | 472.6 |
| 17.5° | 703.5 | 705.8 | 691.1 | 681.0 | 666.3 | 645.3 | 620.6 | 591.1 | 559.4 | 521.4 | 491.2 |
| 20°   | 746.8 | 749.2 | 736.8 | 726.7 | 709.6 | 688.0 | 666.3 | 634.5 | 604.3 | 562.5 | 522.9 |
| 22.5° | 791.0 | 792.5 | 780.9 | 766.2 | 746.8 | 724.4 | 696.5 | 663.9 | 631.4 | 594.2 | 552.4 |
| 25°   | 829.0 | 827.4 | 808.0 | 787.1 | 768.5 | 744.5 | 717.4 | 685.6 | 654.6 | 614.4 | 574.8 |
| 27.5° | 843.7 | 842.9 | 821.2 | 801.1 | 779.4 | 746.8 | 722.8 | 694.9 | 662.4 | 626.8 | 586.5 |
| 30°   | 825.1 | 837.5 | 823.5 | 808.8 | 782.5 | 749.9 | 726.7 | 693.4 | 663.2 | 628.3 | 582.6 |
| 32.5° | 805.7 | 821.2 | 816.6 | 809.6 | 778.6 | 753.0 | 722.8 | 691.8 | 656.2 | 615.9 | 546.2 |
| 35°   | 784.0 | 800.3 | 801.1 | 793.3 | 765.4 | 739.9 | 712.0 | 679.4 | 639.1 | 563.2 | 512.1 |
| 37.5° | 764.7 | 780.1 | 784.8 | 768.5 | 746.8 | 712.7 | 687.2 | 653.1 | 580.3 | 529.1 | 502.8 |
| 40°   | 749.9 | 761.6 | 768.5 | 743.0 | 721.3 | 688.0 | 658.5 | 598.9 | 533.0 | 515.2 | 478.0 |
| 42.5° | 734.4 | 745.3 | 748.4 | 720.5 | 687.2 | 655.4 | 612.8 | 537.7 | 518.3 | 492.0 | 392.0 |
| 45°   | 695.7 | 708.9 | 701.1 | 674.0 | 649.2 | 615.9 | 552.4 | 519.8 | 498.9 | 389.7 | 240.9 |
| 47.5° | 522.2 | 536.9 | 557.8 | 565.6 | 574.1 | 550.1 | 515.2 | 503.6 | 409.8 | 236.3 | 75.1  |
| 50°   | 461.7 | 459.4 | 459.4 | 463.3 | 470.3 | 478.0 | 488.1 | 424.6 | 246.4 | 73.6  | 0.0   |
| 52.5° | 188.3 | 197.6 | 243.3 | 284.3 | 331.6 | 378.8 | 393.6 | 260.3 | 96.1  | 1.5   | 0.0   |
| 55°   | 23.2  | 23.2  | 32.5  | 55.8  | 92.2  | 148.7 | 167.3 | 83.7  | 7.0   | 0.0   | 0.0   |
| 57.5° | 0.0   | 0.0   | 0.0   | 0.8   | 6.2   | 17.0  | 11.6  | 3.1   | 0.8   | 0.8   | 0.0   |
| 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.8   | 0.8   | 0.8   | 0.8   |
| 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   | 0.8   | 0.8   |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 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   | 0.0   | 0.8   | 0.8   | 0.8   | 0.8   |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.8   | 0.8   | 0.8   | 0.8   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.8   | 0.8   | 0.8   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.8   | 0.8   | 0.8   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.8   | 0.8   | 0.8   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 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°    | 203.8 | 203.8 | 203.8 | 203.8 | 203.8  | 203.8 | 203.8  | 203.8 |
| 2.5°  | 266.5 | 257.2 | 244.0 | 205.3 | 172.0  | 142.5 | 125.5  | 117.0 |
| 5°    | 340.9 | 318.4 | 288.2 | 204.5 | 139.5  | 93.0  | 69.7   | 61.2  |
| 7.5°  | 412.2 | 386.6 | 335.5 | 201.4 | 106.9  | 54.2  | 30.2   | 24.0  |
| 10°   | 443.1 | 424.6 | 378.8 | 196.8 | 77.5   | 25.6  | 25.6   | 26.3  |
| 12.5° | 455.5 | 441.6 | 404.4 | 189.8 | 51.1   | 24.8  | 26.3   | 24.8  |
| 15°   | 464.1 | 450.9 | 416.8 | 182.1 | 29.4   | 25.6  | 20.9   | 18.6  |
| 17.5° | 468.7 | 453.2 | 420.7 | 167.3 | 19.4   | 21.7  | 13.2   | 10.8  |
| 20°   | 483.4 | 458.6 | 423.8 | 150.3 | 18.6   | 14.7  | 7.0    | 5.4   |
| 22.5° | 508.2 | 469.5 | 424.6 | 129.4 | 14.7   | 8.5   | 2.3    | 0.0   |
| 25°   | 530.7 | 484.2 | 426.9 | 102.3 | 4.6    | 2.3   | 0.0    | 0.0   |
| 27.5° | 541.5 | 488.9 | 426.1 | 72.0  | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 528.4 | 477.2 | 419.1 | 44.9  | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 497.4 | 468.7 | 397.4 | 19.4  | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 487.3 | 450.1 | 347.9 | 2.3   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 464.8 | 396.7 | 255.7 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 399.8 | 286.6 | 121.6 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 264.2 | 122.4 | 7.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 93.0  | 7.7   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 1.5   | 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   | 0.8   | 0.8   | 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   | 0.8   | 0.8   | 0.0    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.8   | 0.8   | 0.8   | 0.8   | 0.0    | 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    | 0.8   | 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    | 0.0   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)