

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: P1309035

Luminaire Tested: P3SQAS09R709035DE010 E3SQCA301MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1309035  
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: P3SQAS09R709035DE010 E3SQCA301MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 90CRI , E3SQCA301MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

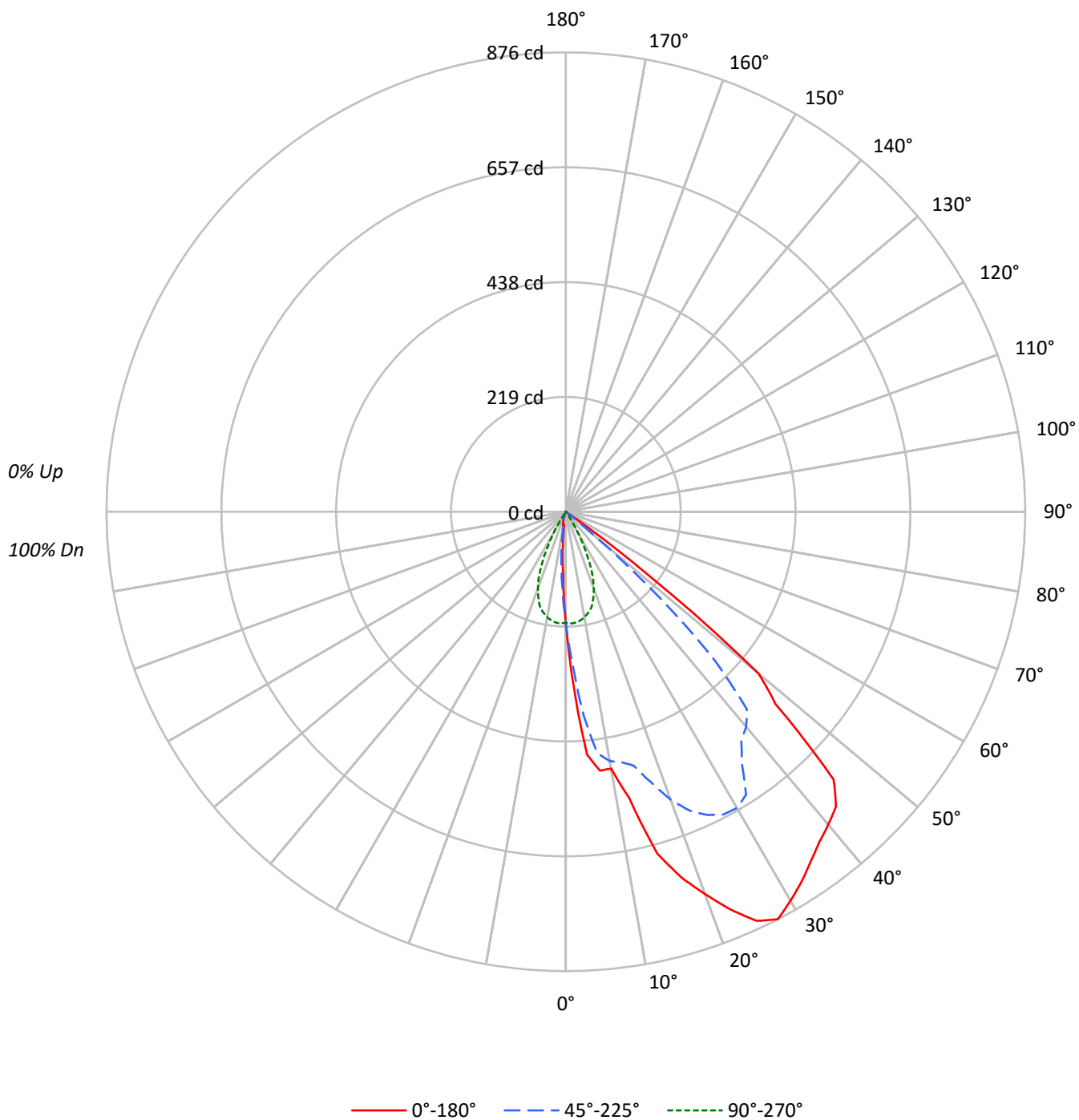
Lumens per Lamp: N/A  
Luminaire Lumens: 570.0 lumens  
Efficiency: N/A  
Efficacy: 51.4 lumens/watt  
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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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CATALOG NUMBER: P3SQAS09R709035DE010 E3SQCA301MB

### Luminous Intensity Polar Plot



TEST NUMBER: P1309035

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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°  | 36425  | 36425  | 36425 | 36425 | 36425 |
| 5°  | 80372  | 67441  | 36720 | 16683 | 10978 |
| 10° | 86933  | 84397  | 35728 | 4634  | 4774  |
| 15° | 120333 | 89345  | 33698 | 4725  | 3441  |
| 20° | 142112 | 107033 | 28591 | 2804  | 1026  |
| 25° | 163556 | 121218 | 20181 | 456   | 0     |
| 30° | 170348 | 129720 | 9287  | 0     | 0     |
| 35° | 171139 | 122951 | 505   | 0     | 0     |
| 40° | 175045 | 120257 | 0     | 0     | 0     |
| 45° | 175923 | 98544  | 0     | 0     | 0     |
| 50° | 128446 | 20470  | 0     | 0     | 0     |
| 55° | 7236   | 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: 179260 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 23.1   | 4.1       |
| 10°-20°   | 77.3   | 13.6      |
| 20°-30°   | 138.9  | 24.4      |
| 30°-40°   | 168.9  | 29.6      |
| 40°-50°   | 130.4  | 22.9      |
| 50°-60°   | 30.3   | 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°    | 239.3  | 42.0      |
| 0°-40°    | 408.2  | 71.6      |
| 0°-60°    | 568.9  | 99.8      |
| 0°-90°    | 570.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 570.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 212 | 212 | 212 | 212  | 212  |      |
| 5°  | 465 | 390 | 212 | 96   | 64   | 44   |
| 15° | 675 | 501 | 189 | 26   | 19   | 189  |
| 25° | 861 | 638 | 106 | 2    | 0    | 392  |
| 35° | 814 | 585 | 2   | 0    | 0    | 511  |
| 45° | 722 | 405 | 0   | 0    | 0    | 510  |
| 55° | 24  | 0   | 0   | 0    | 0    | 99   |
| 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°    | 211.5 | 211.5 | 211.5 | 211.5 | 211.5 | 211.5 | 211.5 | 211.5 | 211.5 | 211.5 | 211.5 |
| 2.5°  | 329.8 | 329.8 | 331.4 | 330.6 | 323.4 | 320.1 | 309.7 | 304.0 | 302.4 | 289.6 | 284.7 |
| 5°    | 464.9 | 465.7 | 461.7 | 460.9 | 452.9 | 447.2 | 438.4 | 424.7 | 411.0 | 390.1 | 371.6 |
| 7.5°  | 497.9 | 497.1 | 496.3 | 496.3 | 494.7 | 491.5 | 487.4 | 483.4 | 477.8 | 464.9 | 450.4 |
| 10°   | 497.1 | 497.1 | 496.3 | 496.3 | 495.5 | 496.3 | 495.5 | 493.1 | 490.7 | 482.6 | 474.6 |
| 12.5° | 559.8 | 555.0 | 548.6 | 538.9 | 522.8 | 510.8 | 497.1 | 493.1 | 491.5 | 489.1 | 484.2 |
| 15°   | 674.9 | 670.8 | 657.2 | 640.3 | 624.2 | 596.8 | 575.1 | 545.4 | 522.0 | 501.1 | 490.7 |
| 17.5° | 730.4 | 732.8 | 717.5 | 707.0 | 691.8 | 670.0 | 644.3 | 613.7 | 580.7 | 541.3 | 510.0 |
| 20°   | 775.4 | 777.8 | 764.9 | 754.5 | 736.8 | 714.3 | 691.8 | 658.8 | 627.4 | 584.0 | 542.9 |
| 22.5° | 821.3 | 822.9 | 810.8 | 795.5 | 775.4 | 752.1 | 723.1 | 689.3 | 655.6 | 616.9 | 573.5 |
| 25°   | 860.7 | 859.1 | 838.9 | 817.2 | 797.9 | 773.0 | 744.8 | 711.9 | 679.7 | 637.9 | 596.8 |
| 27.5° | 875.9 | 875.1 | 852.6 | 831.7 | 809.2 | 775.4 | 750.5 | 721.5 | 687.7 | 650.7 | 608.9 |
| 30°   | 856.6 | 869.5 | 855.0 | 839.8 | 812.4 | 778.6 | 754.5 | 719.9 | 688.5 | 652.3 | 604.9 |
| 32.5° | 836.5 | 852.6 | 847.8 | 840.6 | 808.4 | 781.8 | 750.5 | 718.3 | 681.3 | 639.5 | 567.1 |
| 35°   | 814.0 | 830.9 | 831.7 | 823.7 | 794.7 | 768.2 | 739.2 | 705.4 | 663.6 | 584.8 | 531.7 |
| 37.5° | 793.9 | 810.0 | 814.8 | 797.9 | 775.4 | 740.0 | 713.5 | 678.1 | 602.5 | 549.4 | 522.0 |
| 40°   | 778.6 | 790.7 | 797.9 | 771.4 | 748.9 | 714.3 | 683.7 | 621.8 | 553.4 | 534.9 | 496.3 |
| 42.5° | 762.5 | 773.8 | 777.0 | 748.1 | 713.5 | 680.5 | 636.2 | 558.2 | 538.1 | 510.8 | 407.0 |
| 45°   | 722.3 | 736.0 | 727.9 | 699.8 | 674.1 | 639.5 | 573.5 | 539.7 | 518.0 | 404.6 | 250.2 |
| 47.5° | 542.1 | 557.4 | 579.1 | 587.2 | 596.0 | 571.1 | 534.9 | 522.8 | 425.5 | 245.3 | 78.0  |
| 50°   | 479.4 | 477.0 | 477.0 | 481.0 | 488.2 | 496.3 | 506.7 | 440.8 | 255.8 | 76.4  | 0.0   |
| 52.5° | 195.5 | 205.1 | 252.6 | 295.2 | 344.3 | 393.3 | 408.6 | 270.3 | 99.7  | 1.6   | 0.0   |
| 55°   | 24.1  | 24.1  | 33.8  | 57.9  | 95.7  | 154.4 | 173.7 | 86.9  | 7.2   | 0.0   | 0.0   |
| 57.5° | 0.0   | 0.0   | 0.0   | 0.8   | 6.4   | 17.7  | 12.1  | 3.2   | 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°    | 211.5 | 211.5 | 211.5 | 211.5 | 211.5  | 211.5 | 211.5  | 211.5 |
| 2.5°  | 276.7 | 267.0 | 253.4 | 213.2 | 178.6  | 148.0 | 130.3  | 121.5 |
| 5°    | 353.9 | 330.6 | 299.2 | 212.4 | 144.8  | 96.5  | 72.4   | 63.5  |
| 7.5°  | 427.9 | 401.4 | 348.3 | 209.1 | 111.0  | 56.3  | 31.4   | 24.9  |
| 10°   | 460.1 | 440.8 | 393.3 | 204.3 | 80.4   | 26.5  | 26.5   | 27.3  |
| 12.5° | 473.0 | 458.5 | 419.9 | 197.1 | 53.1   | 25.7  | 27.3   | 25.7  |
| 15°   | 481.8 | 468.1 | 432.7 | 189.0 | 30.6   | 26.5  | 21.7   | 19.3  |
| 17.5° | 486.6 | 470.6 | 436.8 | 173.7 | 20.1   | 22.5  | 13.7   | 11.3  |
| 20°   | 501.9 | 476.2 | 440.0 | 156.0 | 19.3   | 15.3  | 7.2    | 5.6   |
| 22.5° | 527.7 | 487.4 | 440.8 | 134.3 | 15.3   | 8.8   | 2.4    | 0.0   |
| 25°   | 551.0 | 502.7 | 443.2 | 106.2 | 4.8    | 2.4   | 0.0    | 0.0   |
| 27.5° | 562.2 | 507.6 | 442.4 | 74.8  | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 548.6 | 495.5 | 435.2 | 46.7  | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 516.4 | 486.6 | 412.6 | 20.1  | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 505.9 | 467.3 | 361.2 | 2.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 482.6 | 411.8 | 265.4 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 415.1 | 297.6 | 126.3 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 274.3 | 127.1 | 7.2   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 96.5  | 8.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 1.6   | 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)