

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: PORTFOLIO

Report Number: P1315529

Luminaire Tested: LDSQA3D09R709735DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315529  
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: PORTFOLIO  
Catalog Number: LDSQA3D09R709735DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

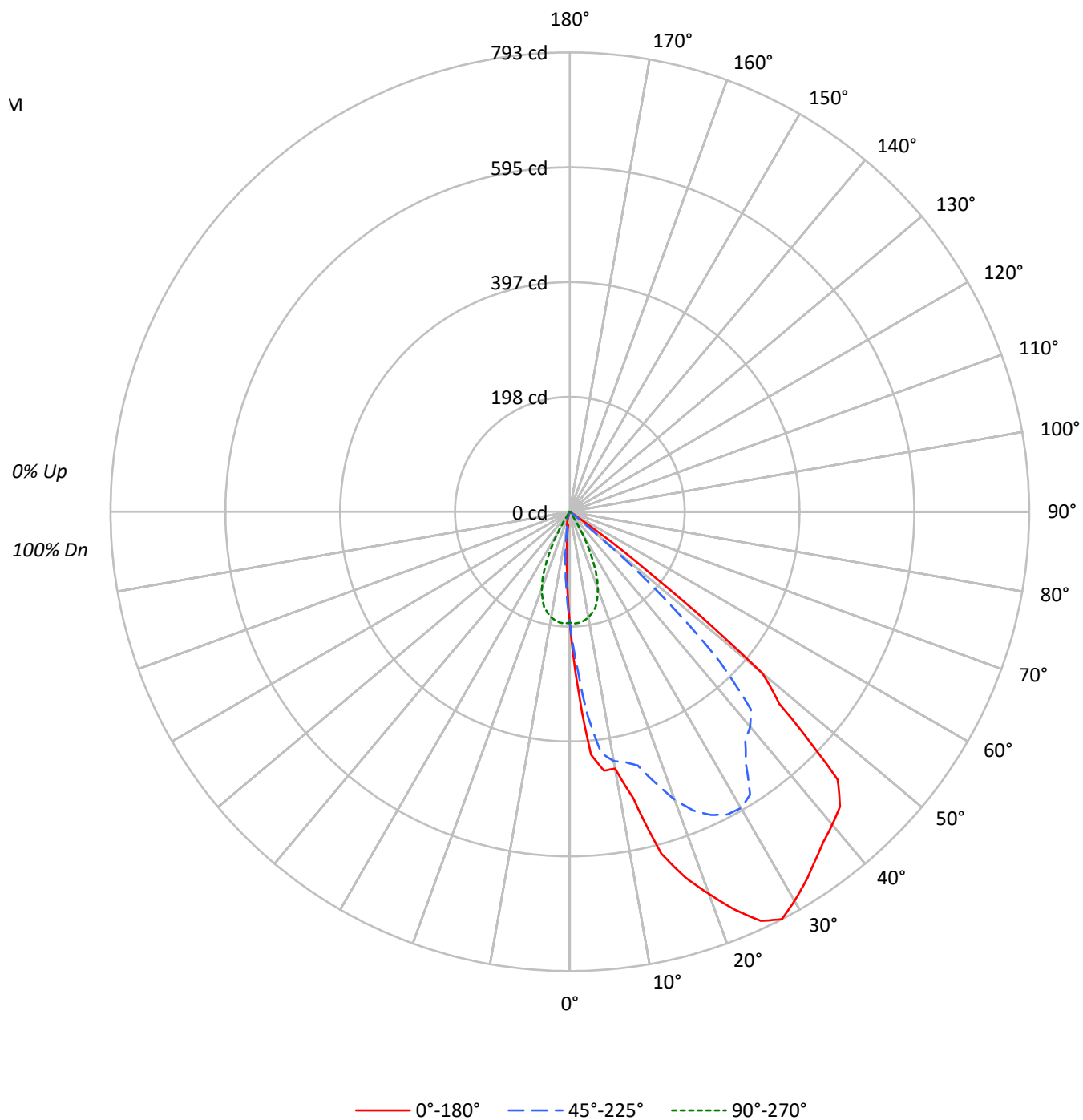
Lumens per Lamp: N/A  
Luminaire Lumens: 516.0 lumens  
Efficiency: N/A  
Efficacy: 46.5 lumens/watt  
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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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### Luminous Intensity Polar Plot



TEST NUMBER: P1315529

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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°  | 32981  | 32981  | 32981 | 32981 | 32981 |
| 5°  | 72765  | 61061  | 33228 | 15110 | 9941  |
| 10° | 78696  | 76405  | 32353 | 4197  | 4337  |
| 15° | 108922 | 80876  | 30507 | 4279  | 3120  |
| 20° | 128641 | 96879  | 25897 | 2529  | 935   |
| 25° | 148050 | 109721 | 18262 | 418   | 0     |
| 30° | 154220 | 117430 | 8392  | 0     | 0     |
| 35° | 154930 | 111304 | 463   | 0     | 0     |
| 40° | 158476 | 108858 | 0     | 0     | 0     |
| 45° | 159264 | 89216  | 0     | 0     | 0     |
| 50° | 116282 | 18541  | 0     | 0     | 0     |
| 55° | 6546   | 0      | 0     | 0     | 0     |
| 60° | 0      | 241    | 241   | 0     | 0     |
| 65° | 0      | 0      | 285   | 0     | 0     |
| 70° | 0      | 352    | 352   | 0     | 0     |
| 75° | 0      | 466    | 466   | 0     | 0     |
| 80° | 0      | 694    | 694   | 694   | 0     |
| 85° | 0      | 1383   | 1383  | 1383  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 162284 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 21.0   | 4.1       |
| 10°-20°   | 70.0   | 13.6      |
| 20°-30°   | 125.7  | 24.4      |
| 30°-40°   | 152.9  | 29.6      |
| 40°-50°   | 118.0  | 22.9      |
| 50°-60°   | 27.5   | 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°    | 216.7  | 42.0      |
| 0°-40°    | 369.5  | 71.6      |
| 0°-60°    | 515.0  | 99.8      |
| 0°-90°    | 516.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 516.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 192 | 192 | 192 | 192  | 192  |      |
| 5°  | 421 | 353 | 192 | 87   | 58   | 40   |
| 15° | 611 | 454 | 171 | 24   | 18   | 171  |
| 25° | 779 | 577 | 96  | 2    | 0    | 355  |
| 35° | 737 | 529 | 2   | 0    | 0    | 463  |
| 45° | 654 | 366 | 0   | 0    | 0    | 462  |
| 55° | 22  | 0   | 0   | 0    | 0    | 90   |
| 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°    | 191.5 | 191.5 | 191.5 | 191.5 | 191.5 | 191.5 | 191.5 | 191.5 | 191.5 | 191.5 | 191.5 |
| 2.5°  | 298.5 | 298.5 | 300.0 | 299.3 | 292.7 | 289.8 | 280.3 | 275.2 | 273.8 | 262.1 | 257.8 |
| 5°    | 420.9 | 421.6 | 418.0 | 417.2 | 410.0 | 404.9 | 396.8 | 384.5 | 372.1 | 353.2 | 336.4 |
| 7.5°  | 450.7 | 450.0 | 449.3 | 449.3 | 447.8 | 444.9 | 441.3 | 437.6 | 432.5 | 420.9 | 407.8 |
| 10°   | 450.0 | 450.0 | 449.3 | 449.3 | 448.5 | 449.3 | 448.5 | 446.4 | 444.2 | 436.9 | 429.6 |
| 12.5° | 506.8 | 502.4 | 496.6 | 487.9 | 473.3 | 462.4 | 450.0 | 446.4 | 444.9 | 442.7 | 438.4 |
| 15°   | 610.9 | 607.3 | 594.9 | 579.6 | 565.1 | 540.3 | 520.6 | 493.7 | 472.6 | 453.6 | 444.2 |
| 17.5° | 661.2 | 663.4 | 649.5 | 640.1 | 626.2 | 606.6 | 583.3 | 555.6 | 525.7 | 490.1 | 461.7 |
| 20°   | 701.9 | 704.1 | 692.5 | 683.0 | 667.0 | 646.6 | 626.2 | 596.4 | 568.0 | 528.6 | 491.5 |
| 22.5° | 743.4 | 744.9 | 734.0 | 720.1 | 701.9 | 680.8 | 654.6 | 624.0 | 593.4 | 558.5 | 519.2 |
| 25°   | 779.1 | 777.7 | 759.5 | 739.8 | 722.3 | 699.8 | 674.3 | 644.4 | 615.3 | 577.4 | 540.3 |
| 27.5° | 793.0 | 792.2 | 771.8 | 752.9 | 732.5 | 701.9 | 679.4 | 653.2 | 622.6 | 589.1 | 551.2 |
| 30°   | 775.5 | 787.1 | 774.0 | 760.2 | 735.4 | 704.9 | 683.0 | 651.7 | 623.3 | 590.5 | 547.6 |
| 32.5° | 757.3 | 771.8 | 767.5 | 760.9 | 731.8 | 707.8 | 679.4 | 650.2 | 616.8 | 578.9 | 513.4 |
| 35°   | 736.9 | 752.2 | 752.9 | 745.6 | 719.4 | 695.4 | 669.2 | 638.6 | 600.7 | 529.4 | 481.3 |
| 37.5° | 718.7 | 733.3 | 737.6 | 722.3 | 701.9 | 669.9 | 645.9 | 613.8 | 545.4 | 497.3 | 472.6 |
| 40°   | 704.9 | 715.8 | 722.3 | 698.3 | 677.9 | 646.6 | 618.9 | 562.9 | 501.0 | 484.2 | 449.3 |
| 42.5° | 690.3 | 700.5 | 703.4 | 677.2 | 645.9 | 616.0 | 576.0 | 505.3 | 487.1 | 462.4 | 368.4 |
| 45°   | 653.9 | 666.3 | 659.0 | 633.5 | 610.2 | 578.9 | 519.2 | 488.6 | 468.9 | 366.3 | 226.5 |
| 47.5° | 490.8 | 504.6 | 524.3 | 531.6 | 539.6 | 517.0 | 484.2 | 473.3 | 385.2 | 222.1 | 70.6  |
| 50°   | 434.0 | 431.8 | 431.8 | 435.4 | 442.0 | 449.3 | 458.7 | 399.0 | 231.6 | 69.2  | 0.0   |
| 52.5° | 176.9 | 185.7 | 228.6 | 267.2 | 311.7 | 356.1 | 369.9 | 244.7 | 90.3  | 1.5   | 0.0   |
| 55°   | 21.8  | 21.8  | 30.6  | 52.4  | 86.7  | 139.8 | 157.3 | 78.6  | 6.6   | 0.0   | 0.0   |
| 57.5° | 0.0   | 0.0   | 0.0   | 0.7   | 5.8   | 16.0  | 10.9  | 2.9   | 0.7   | 0.7   | 0.0   |
| 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 0.7   | 0.7   | 0.7   |
| 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   | 0.7   | 0.7   |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 0.7   |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 0.7   | 0.7   |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 0.7   | 0.7   | 0.7   |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 0.7   | 0.7   | 0.7   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 0.7   | 0.7   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 0.7   | 0.7   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 0.7   | 0.7   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 0.7   | 0.7   |
| 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°    | 191.5 | 191.5 | 191.5 | 191.5 | 191.5  | 191.5 | 191.5  | 191.5 |
| 2.5°  | 250.5 | 241.7 | 229.4 | 193.0 | 161.7  | 134.0 | 118.0  | 110.0 |
| 5°    | 320.4 | 299.3 | 270.9 | 192.2 | 131.1  | 87.4  | 65.5   | 57.5  |
| 7.5°  | 387.4 | 363.4 | 315.3 | 189.3 | 100.5  | 51.0  | 28.4   | 22.6  |
| 10°   | 416.5 | 399.0 | 356.1 | 185.0 | 72.8   | 24.0  | 24.0   | 24.8  |
| 12.5° | 428.2 | 415.1 | 380.1 | 178.4 | 48.1   | 23.3  | 24.8   | 23.3  |
| 15°   | 436.2 | 423.8 | 391.7 | 171.1 | 27.7   | 24.0  | 19.7   | 17.5  |
| 17.5° | 440.5 | 426.0 | 395.4 | 157.3 | 18.2   | 20.4  | 12.4   | 10.2  |
| 20°   | 454.4 | 431.1 | 398.3 | 141.3 | 17.5   | 13.8  | 6.6    | 5.1   |
| 22.5° | 477.7 | 441.3 | 399.0 | 121.6 | 13.8   | 8.0   | 2.2    | 0.0   |
| 25°   | 498.8 | 455.1 | 401.2 | 96.1  | 4.4    | 2.2   | 0.0    | 0.0   |
| 27.5° | 509.0 | 459.5 | 400.5 | 67.7  | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 496.6 | 448.5 | 393.9 | 42.2  | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 467.5 | 440.5 | 373.5 | 18.2  | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 458.0 | 423.1 | 326.9 | 2.2   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 436.9 | 372.8 | 240.3 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 375.7 | 269.4 | 114.3 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 248.3 | 115.0 | 6.6   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 87.4  | 7.3   | 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°   | 0.7   | 0.7   | 0.7   | 0.7   | 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   | 0.7   | 0.7   | 0.0    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.7   | 0.7   | 0.7   | 0.7   | 0.0    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.7   | 0.7   | 0.7   | 0.7   | 0.7    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7    | 0.0   | 0.0    | 0.0   |
| 77.5° | 0.7   | 0.7   | 0.7   | 0.7   | 0.7    | 0.0   | 0.0    | 0.0   |
| 80°   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7    | 0.7   | 0.0    | 0.0   |
| 82.5° | 0.7   | 0.7   | 0.7   | 0.7   | 0.7    | 0.7   | 0.0    | 0.0   |
| 85°   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7    | 0.7   | 0.0    | 0.0   |
| 87.5° | 0.7   | 0.7   | 0.7   | 0.7   | 0.7    | 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)