

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: P1317397

Luminaire Tested: LDSQA3D09R609827DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317397  
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: PORTFOLIO  
Catalog Number: LDSQA3D09R609827DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R60 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

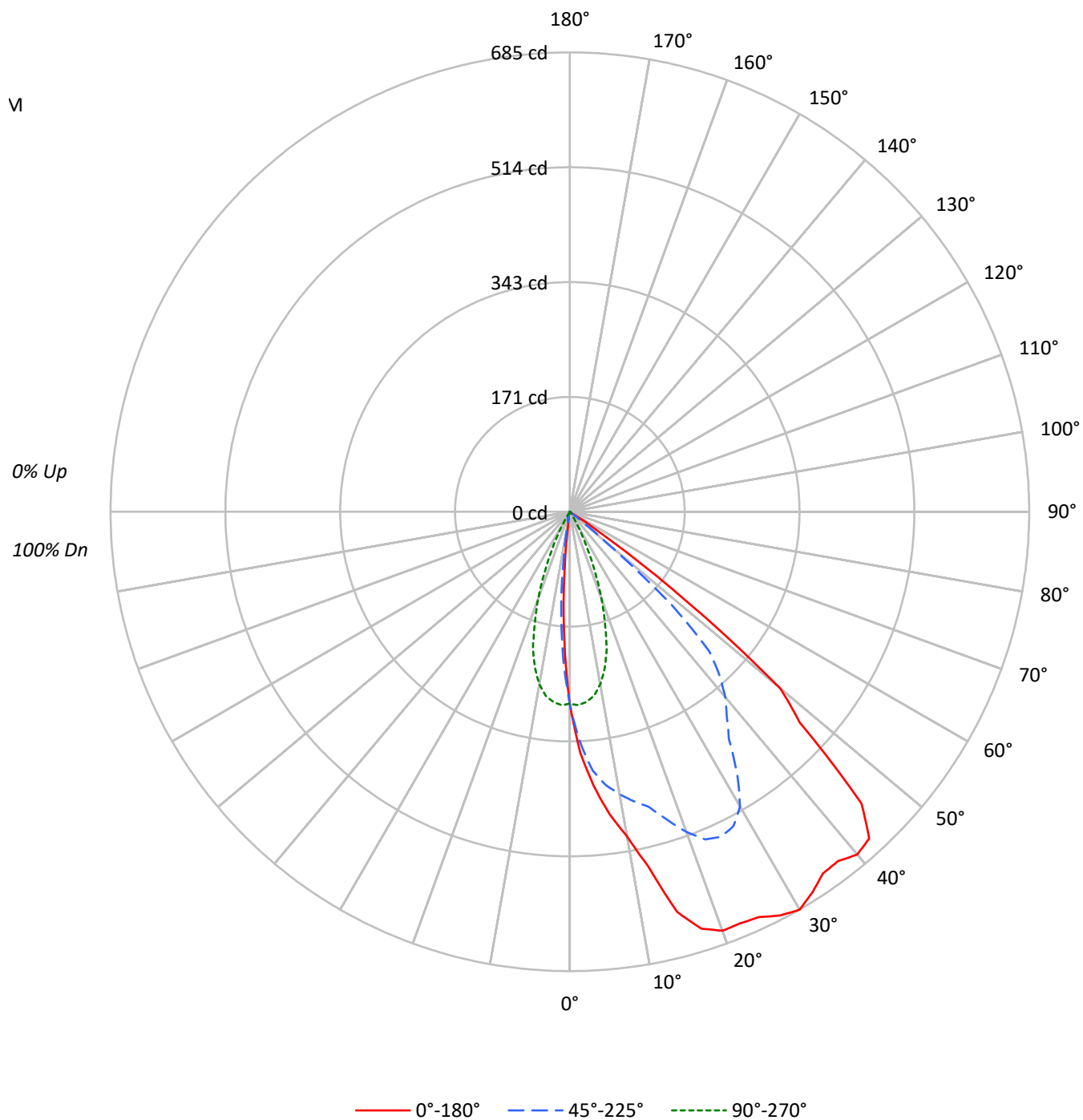
Lumens per Lamp: N/A  
Luminaire Lumens: 465.0 lumens  
Efficiency: N/A  
Efficacy: 42.3 lumens/watt  
Spacing Criteria (0/90/45): 1.74 / 0.65 / 1.25  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11  
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  | 0   |  |  |
| 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°  | 49273  | 49273  | 49273 | 49273 | 49273 |
| 5°  | 71019  | 66887  | 49202 | 25344 | 16285 |
| 10° | 85918  | 74778  | 45679 | 3025  | 1784  |
| 15° | 110099 | 81233  | 37853 | 1997  | 1640  |
| 20° | 121842 | 93122  | 25384 | 1118  | 183   |
| 25° | 126729 | 101569 | 12485 | 95    | 0     |
| 30° | 136263 | 100924 | 3440  | 0     | 0     |
| 35° | 138383 | 86915  | 0     | 0     | 0     |
| 40° | 149933 | 81025  | 0     | 0     | 0     |
| 45° | 149789 | 71533  | 0     | 0     | 0     |
| 50° | 109664 | 17335  | 0     | 0     | 0     |
| 55° | 21409  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 0     | 0     | 0     |
| 65° | 0      | 204    | 204   | 0     | 0     |
| 70° | 0      | 252    | 252   | 0     | 0     |
| 75° | 0      | 333    | 333   | 0     | 0     |
| 80° | 0      | 496    | 496   | 496   | 0     |
| 85° | 0      | 988    | 988   | 988   | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle:  $5^\circ$

Vertical Angle:  $45^\circ$

Luminance: 150033 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 24.6   | 5.3       |
| 10°-20°   | 70.0   | 15.0      |
| 20°-30°   | 111.5  | 24.0      |
| 30°-40°   | 128.9  | 27.7      |
| 40°-50°   | 102.4  | 22.0      |
| 50°-60°   | 26.9   | 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°    | 206.0  | 44.3      |
| 0°-40°    | 334.9  | 72.0      |
| 0°-60°    | 464.2  | 99.8      |
| 0°-90°    | 465.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 465.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 286 | 286 | 286 | 286  | 286  |      |
| 5°  | 411 | 387 | 285 | 147  | 94   | 41   |
| 15° | 618 | 456 | 212 | 11   | 9    | 172  |
| 25° | 667 | 534 | 66  | 0    | 0    | 311  |
| 35° | 658 | 413 | 0   | 0    | 0    | 418  |
| 45° | 615 | 294 | 0   | 0    | 0    | 438  |
| 55° | 71  | 0   | 0   | 0    | 0    | 107  |
| 65° | 0   | 0   | 0   | 0    | 0    | 0    |
| 75° | 0   | 0   | 0   | 0    | 0    | 0    |
| 85° | 0   | 0   | 0   | 0    | 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°    | 286.1 | 286.1 | 286.1 | 286.1 | 286.1 | 286.1 | 286.1 | 286.1 | 286.1 | 286.1 | 286.1 |
| 2.5°  | 359.9 | 363.5 | 361.9 | 360.4 | 356.9 | 355.3 | 355.3 | 351.3 | 344.6 | 343.6 | 339.0 |
| 5°    | 410.8 | 411.8 | 411.8 | 410.8 | 408.3 | 404.2 | 403.2 | 399.1 | 393.0 | 386.9 | 380.8 |
| 7.5°  | 455.1 | 454.6 | 451.5 | 449.5 | 444.9 | 439.3 | 434.2 | 428.6 | 419.5 | 411.3 | 402.7 |
| 10°   | 491.3 | 492.8 | 490.2 | 485.1 | 479.0 | 471.4 | 463.3 | 453.6 | 439.8 | 427.6 | 416.4 |
| 12.5° | 542.2 | 541.7 | 535.0 | 526.4 | 511.6 | 497.4 | 484.6 | 473.9 | 457.1 | 442.4 | 428.6 |
| 15°   | 617.5 | 616.5 | 610.4 | 602.7 | 581.4 | 560.0 | 538.1 | 508.1 | 480.1 | 455.6 | 436.3 |
| 17.5° | 651.6 | 653.6 | 648.6 | 644.5 | 632.3 | 618.0 | 598.7 | 568.6 | 525.4 | 481.1 | 440.3 |
| 20°   | 664.8 | 667.4 | 663.8 | 663.3 | 657.7 | 651.1 | 635.3 | 602.7 | 560.5 | 508.1 | 457.7 |
| 22.5° | 664.3 | 666.4 | 664.8 | 671.5 | 678.1 | 674.5 | 655.2 | 622.6 | 579.3 | 528.9 | 471.9 |
| 25°   | 666.9 | 665.4 | 659.8 | 669.4 | 679.1 | 676.0 | 666.4 | 638.4 | 591.0 | 534.5 | 477.0 |
| 27.5° | 678.6 | 667.4 | 656.2 | 668.4 | 673.0 | 674.0 | 668.4 | 635.3 | 589.0 | 528.4 | 466.8 |
| 30°   | 685.2 | 673.0 | 663.8 | 674.0 | 674.0 | 679.6 | 667.9 | 630.2 | 571.7 | 507.5 | 439.8 |
| 32.5° | 673.0 | 670.4 | 678.6 | 688.8 | 691.3 | 691.3 | 665.4 | 613.4 | 542.7 | 464.8 | 396.6 |
| 35°   | 658.2 | 664.3 | 687.8 | 692.3 | 692.3 | 681.1 | 649.6 | 583.9 | 499.4 | 413.4 | 364.5 |
| 37.5° | 656.7 | 666.4 | 692.3 | 686.7 | 677.6 | 656.7 | 610.9 | 532.5 | 437.8 | 384.3 | 340.6 |
| 40°   | 666.9 | 676.0 | 691.3 | 671.0 | 649.1 | 616.5 | 561.5 | 465.3 | 400.6 | 360.4 | 311.6 |
| 42.5° | 660.8 | 669.4 | 669.9 | 639.9 | 608.8 | 564.6 | 491.8 | 410.8 | 373.7 | 329.9 | 278.5 |
| 45°   | 615.0 | 616.0 | 613.9 | 581.9 | 549.8 | 504.0 | 426.6 | 383.8 | 344.1 | 293.7 | 204.6 |
| 47.5° | 464.8 | 462.7 | 470.4 | 461.2 | 462.7 | 435.3 | 387.4 | 352.3 | 304.9 | 206.2 | 62.1  |
| 50°   | 409.3 | 406.7 | 399.1 | 391.0 | 382.8 | 369.6 | 347.2 | 309.5 | 219.9 | 64.7  | 2.0   |
| 52.5° | 219.4 | 231.6 | 255.6 | 292.2 | 306.0 | 304.9 | 288.1 | 229.1 | 69.2  | 0.5   | 0.0   |
| 55°   | 71.3  | 70.3  | 78.4  | 92.7  | 127.3 | 146.6 | 152.7 | 77.9  | 1.5   | 0.0   | 0.0   |
| 57.5° | 0.0   | 0.0   | 0.0   | 1.5   | 5.1   | 13.2  | 17.3  | 1.0   | 0.0   | 0.5   | 0.0   |
| 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.0   | 0.0   |
| 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   |
| 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   |
| 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 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°    | 286.1 | 286.1 | 286.1 | 286.1 | 286.1  | 286.1 | 286.1  | 286.1 |
| 2.5°  | 332.9 | 325.8 | 317.7 | 288.6 | 254.5  | 221.4 | 197.5  | 191.4 |
| 5°    | 371.1 | 358.9 | 341.6 | 284.6 | 210.2  | 146.6 | 104.9  | 94.2  |
| 7.5°  | 391.0 | 380.3 | 361.9 | 276.4 | 162.9  | 72.3  | 27.0   | 18.3  |
| 10°   | 403.2 | 390.5 | 370.1 | 261.2 | 106.4  | 17.3  | 9.7    | 10.2  |
| 12.5° | 411.8 | 397.1 | 374.2 | 239.3 | 54.0   | 8.7   | 12.2   | 12.7  |
| 15°   | 415.4 | 399.6 | 373.7 | 212.3 | 19.3   | 11.2  | 10.7   | 9.2   |
| 17.5° | 413.4 | 393.5 | 367.0 | 173.6 | 6.6    | 10.7  | 5.6    | 4.6   |
| 20°   | 410.8 | 388.4 | 356.3 | 138.5 | 5.6    | 6.1   | 2.0    | 1.0   |
| 22.5° | 419.0 | 379.8 | 341.6 | 99.3  | 5.6    | 2.0   | 0.0    | 0.0   |
| 25°   | 420.0 | 376.2 | 322.8 | 65.7  | 2.5    | 0.5   | 0.0    | 0.0   |
| 27.5° | 409.8 | 355.3 | 293.7 | 38.7  | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 377.2 | 329.4 | 262.7 | 17.3  | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 345.1 | 300.4 | 228.1 | 4.1   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 319.7 | 270.3 | 189.9 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 288.1 | 234.7 | 141.5 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 255.0 | 189.4 | 70.8  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 199.0 | 90.1  | 7.1   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 76.4  | 8.1   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 4.1   | 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°   | 0.5   | 0.5   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.0    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5    | 0.0   | 0.0    | 0.0   |
| 77.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5    | 0.0   | 0.0    | 0.0   |
| 80°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5    | 0.5   | 0.0    | 0.0   |
| 82.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5    | 0.0   | 0.0    | 0.0   |
| 85°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5    | 0.5   | 0.0    | 0.0   |
| 87.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5    | 0.5   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)