

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: P1316500

Luminaire Tested: LDSQA3D09R709740DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316500  
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: LDSQA3D09R709740DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

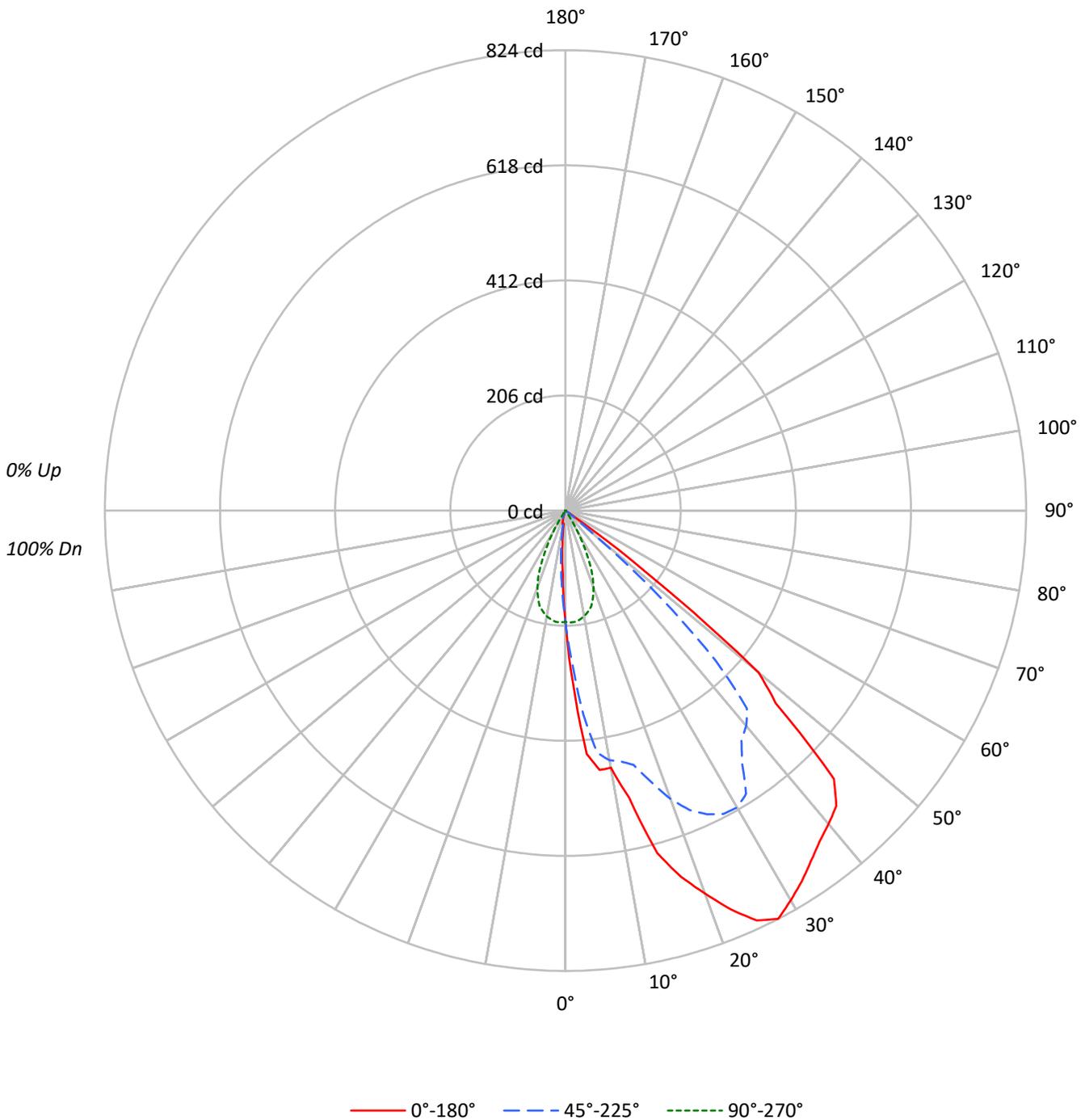
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 536.1 lumens  
Efficiency: N/A  
Efficacy: 48.3 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 (A<sub>in</sub>): 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: P1316500  
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### Luminous Intensity Polar Plot





TEST NUMBER: P1316500

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  | 0   |
| 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 | 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°  | 34255  | 34255  | 34255 | 34255 | 34255 |
| 5°  | 75583  | 63413  | 34524 | 15698 | 10338 |
| 10° | 81739  | 79360  | 33594 | 4372  | 4494  |
| 15° | 113148 | 84014  | 31684 | 4457  | 3245  |
| 20° | 133644 | 100637 | 26887 | 2639  | 971   |
| 25° | 153789 | 113978 | 18965 | 437   | 0     |
| 30° | 160186 | 121984 | 8730  | 0     | 0     |
| 35° | 160943 | 115614 | 484   | 0     | 0     |
| 40° | 164614 | 113085 | 0     | 0     | 0     |
| 45° | 165426 | 92674  | 0     | 0     | 0     |
| 50° | 120783 | 19264  | 0     | 0     | 0     |
| 55° | 6816   | 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: 168568 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 21.8   | 4.1       |
| 10°-20°   | 72.7   | 13.6      |
| 20°-30°   | 130.6  | 24.4      |
| 30°-40°   | 158.8  | 29.6      |
| 40°-50°   | 122.6  | 22.9      |
| 50°-60°   | 28.5   | 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°    | 225.1  | 42.0      |
| 0°-40°    | 383.9  | 71.6      |
| 0°-60°    | 535.0  | 99.8      |
| 0°-90°    | 536.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 536.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 199 | 199 | 199 | 199  | 199  |      |
| 5°  | 437 | 367 | 200 | 91   | 60   | 41   |
| 15° | 635 | 471 | 178 | 25   | 18   | 177  |
| 25° | 809 | 600 | 100 | 2    | 0    | 368  |
| 35° | 766 | 550 | 2   | 0    | 0    | 481  |
| 45° | 679 | 380 | 0   | 0    | 0    | 480  |
| 55° | 23  | 0   | 0   | 0    | 0    | 93   |
| 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°    | 198.9 | 198.9 | 198.9 | 198.9 | 198.9 | 198.9 | 198.9 | 198.9 | 198.9 | 198.9 | 198.9 |
| 2.5°  | 310.1 | 310.1 | 311.6 | 310.9 | 304.1 | 301.0 | 291.2 | 285.9 | 284.4 | 272.3 | 267.8 |
| 5°    | 437.2 | 437.9 | 434.2 | 433.4 | 425.8 | 420.5 | 412.2 | 399.4 | 386.5 | 366.8 | 349.4 |
| 7.5°  | 468.2 | 467.4 | 466.7 | 466.7 | 465.2 | 462.1 | 458.4 | 454.6 | 449.3 | 437.2 | 423.6 |
| 10°   | 467.4 | 467.4 | 466.7 | 466.7 | 465.9 | 466.7 | 465.9 | 463.7 | 461.4 | 453.8 | 446.3 |
| 12.5° | 526.4 | 521.9 | 515.9 | 506.8 | 491.6 | 480.3 | 467.4 | 463.7 | 462.1 | 459.9 | 455.3 |
| 15°   | 634.6 | 630.8 | 618.0 | 602.1 | 587.0 | 561.2 | 540.8 | 512.8 | 490.9 | 471.2 | 461.4 |
| 17.5° | 686.8 | 689.1 | 674.7 | 664.9 | 650.5 | 630.1 | 605.9 | 577.1 | 546.1 | 509.0 | 479.5 |
| 20°   | 729.2 | 731.4 | 719.3 | 709.5 | 692.8 | 671.7 | 650.5 | 619.5 | 590.0 | 549.1 | 510.6 |
| 22.5° | 772.3 | 773.8 | 762.4 | 748.1 | 729.2 | 707.2 | 680.0 | 648.2 | 616.5 | 580.1 | 539.3 |
| 25°   | 809.3 | 807.8 | 788.9 | 768.5 | 750.3 | 726.9 | 700.4 | 669.4 | 639.1 | 599.8 | 561.2 |
| 27.5° | 823.7 | 822.9 | 801.8 | 782.1 | 760.9 | 729.2 | 705.7 | 678.5 | 646.7 | 611.9 | 572.6 |
| 30°   | 805.5 | 817.6 | 804.0 | 789.7 | 763.9 | 732.2 | 709.5 | 677.0 | 647.5 | 613.4 | 568.8 |
| 32.5° | 786.6 | 801.8 | 797.2 | 790.4 | 760.2 | 735.2 | 705.7 | 675.4 | 640.7 | 601.3 | 533.2 |
| 35°   | 765.5 | 781.3 | 782.1 | 774.5 | 747.3 | 722.3 | 695.1 | 663.3 | 624.0 | 549.9 | 500.0 |
| 37.5° | 746.5 | 761.7 | 766.2 | 750.3 | 729.2 | 695.9 | 670.9 | 637.6 | 566.5 | 516.6 | 490.9 |
| 40°   | 732.2 | 743.5 | 750.3 | 725.4 | 704.2 | 671.7 | 642.9 | 584.7 | 520.4 | 503.0 | 466.7 |
| 42.5° | 717.0 | 727.6 | 730.7 | 703.4 | 670.9 | 639.9 | 598.3 | 524.9 | 506.0 | 480.3 | 382.7 |
| 45°   | 679.2 | 692.1 | 684.5 | 658.1 | 633.8 | 601.3 | 539.3 | 507.5 | 487.1 | 380.5 | 235.2 |
| 47.5° | 509.8 | 524.2 | 544.6 | 552.2 | 560.5 | 537.0 | 503.0 | 491.6 | 400.1 | 230.7 | 73.4  |
| 50°   | 450.8 | 448.5 | 448.5 | 452.3 | 459.1 | 466.7 | 476.5 | 414.5 | 240.5 | 71.9  | 0.0   |
| 52.5° | 183.8 | 192.9 | 237.5 | 277.6 | 323.7 | 369.9 | 384.2 | 254.1 | 93.8  | 1.5   | 0.0   |
| 55°   | 22.7  | 22.7  | 31.8  | 54.5  | 90.0  | 145.2 | 163.4 | 81.7  | 6.8   | 0.0   | 0.0   |
| 57.5° | 0.0   | 0.0   | 0.0   | 0.8   | 6.1   | 16.6  | 11.3  | 3.0   | 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°    | 198.9 | 198.9 | 198.9 | 198.9 | 198.9  | 198.9 | 198.9  | 198.9 |
| 2.5°  | 260.2 | 251.1 | 238.3 | 200.4 | 167.9  | 139.2 | 122.5  | 114.2 |
| 5°    | 332.8 | 310.9 | 281.4 | 199.7 | 136.1  | 90.8  | 68.1   | 59.8  |
| 7.5°  | 402.4 | 377.4 | 327.5 | 196.7 | 104.4  | 52.9  | 29.5   | 23.4  |
| 10°   | 432.7 | 414.5 | 369.9 | 192.1 | 75.6   | 25.0  | 25.0   | 25.7  |
| 12.5° | 444.8 | 431.1 | 394.8 | 185.3 | 49.9   | 24.2  | 25.7   | 24.2  |
| 15°   | 453.1 | 440.2 | 406.9 | 177.7 | 28.7   | 25.0  | 20.4   | 18.2  |
| 17.5° | 457.6 | 442.5 | 410.7 | 163.4 | 18.9   | 21.2  | 12.9   | 10.6  |
| 20°   | 472.0 | 447.8 | 413.7 | 146.7 | 18.2   | 14.4  | 6.8    | 5.3   |
| 22.5° | 496.2 | 458.4 | 414.5 | 126.3 | 14.4   | 8.3   | 2.3    | 0.0   |
| 25°   | 518.1 | 472.7 | 416.8 | 99.8  | 4.5    | 2.3   | 0.0    | 0.0   |
| 27.5° | 528.7 | 477.3 | 416.0 | 70.3  | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 515.9 | 465.9 | 409.2 | 43.9  | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 485.6 | 457.6 | 388.0 | 18.9  | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 475.8 | 439.5 | 339.6 | 2.3   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 453.8 | 387.3 | 249.6 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 390.3 | 279.9 | 118.8 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 257.9 | 119.5 | 6.8   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 90.8  | 7.6   | 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)