

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: P1320015

Luminaire Tested: LDSQA3D09R559840DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-54)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R559840DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

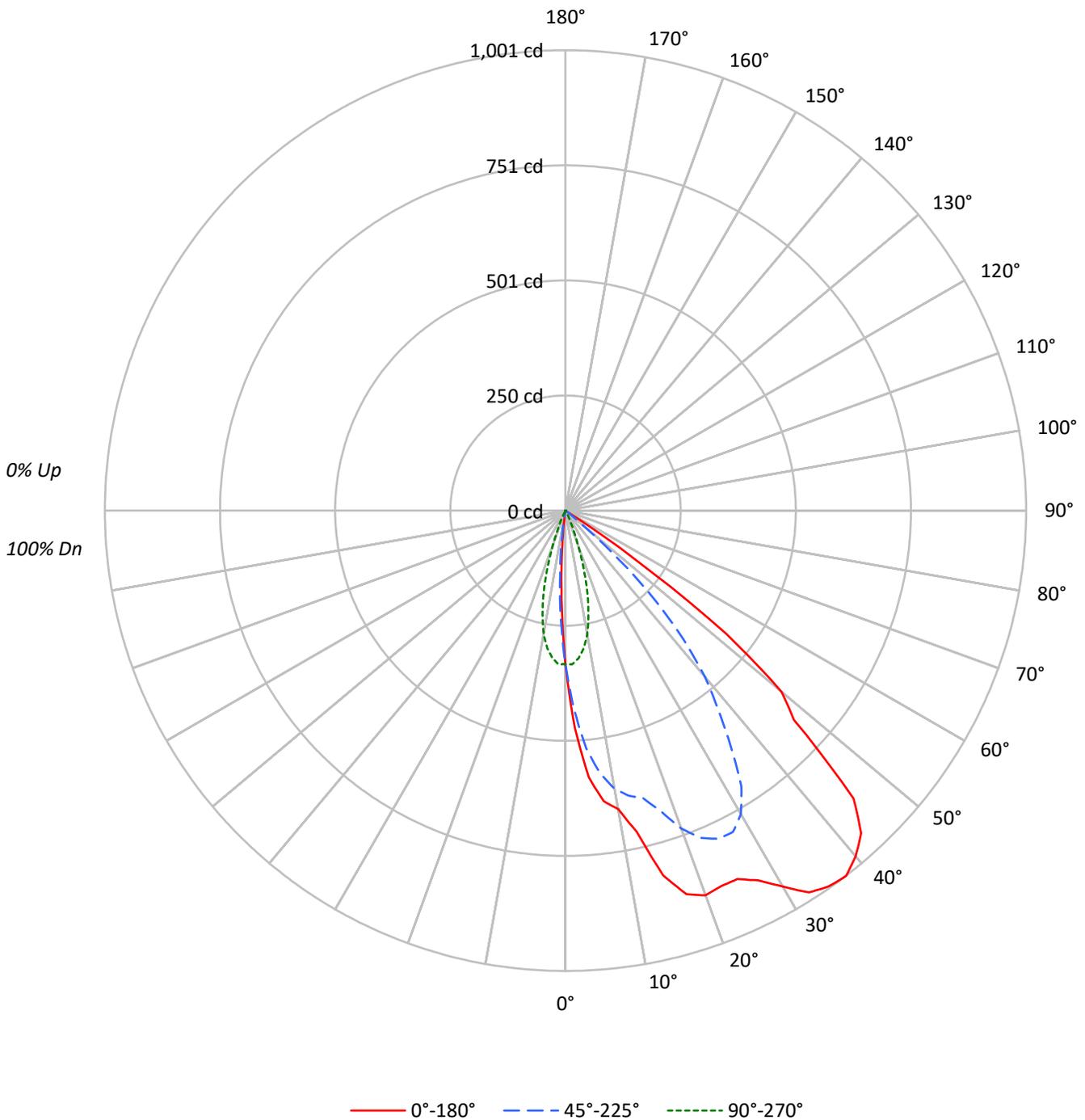
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 617.0 lumens
Efficiency: N/A
Efficacy: 56.1 lumens/watt
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27
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 (A_{in}): 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: P1320015

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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 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1 | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 97 | 96 | 96 | 94 | 93 | 96 | 94 | 93 | 91 |
| 2 | 105 | 99 | 95 | 90 | 103 | 98 | 93 | 89 | 94 | 91 | 87 | 91 | 88 | 86 | 88 | 86 | 84 | 88 | 86 | 84 | 82 |
| 3 | 98 | 90 | 84 | 80 | 96 | 89 | 83 | 79 | 86 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 75 | 81 | 78 | 75 | 73 |
| 4 | 92 | 82 | 76 | 71 | 90 | 81 | 75 | 70 | 79 | 74 | 69 | 77 | 72 | 68 | 75 | 71 | 68 | 75 | 71 | 68 | 66 |
| 5 | 86 | 75 | 68 | 63 | 84 | 74 | 68 | 63 | 72 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 61 | 69 | 64 | 61 | 59 |
| 6 | 80 | 69 | 62 | 56 | 78 | 68 | 61 | 56 | 66 | 60 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 64 | 59 | 55 | 53 |
| 7 | 75 | 63 | 56 | 51 | 73 | 63 | 56 | 51 | 61 | 55 | 50 | 60 | 54 | 50 | 59 | 54 | 50 | 59 | 54 | 50 | 48 |
| 8 | 70 | 58 | 51 | 46 | 68 | 58 | 51 | 46 | 56 | 50 | 46 | 55 | 50 | 46 | 54 | 49 | 45 | 54 | 49 | 45 | 44 |
| 9 | 66 | 54 | 47 | 42 | 64 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 50 | 45 | 41 | 50 | 45 | 41 | 40 |
| 10 | 62 | 50 | 43 | 38 | 60 | 49 | 43 | 38 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 47 | 42 | 38 | 36 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|-------|-------|-------|
| 0° | 57419 | 57419 | 57419 | 57419 | 57419 |
| 5° | 100634 | 89708 | 55737 | 23149 | 13329 |
| 10° | 115193 | 107376 | 47655 | 2536 | 909 |
| 15° | 146383 | 115270 | 32664 | 517 | 303 |
| 20° | 163115 | 134854 | 14350 | 0 | 0 |
| 25° | 167927 | 149627 | 4086 | 0 | 0 |
| 30° | 187610 | 151635 | 577 | 0 | 0 |
| 35° | 209677 | 131655 | 0 | 0 | 0 |
| 40° | 220572 | 105980 | 0 | 0 | 0 |
| 45° | 215648 | 66930 | 0 | 0 | 0 |
| 50° | 164215 | 13664 | 0 | 0 | 0 |
| 55° | 53807 | 0 | 0 | 0 | 0 |
| 60° | 0 | 0 | 0 | 0 | 0 |
| 65° | 0 | 245 | 245 | 0 | 0 |
| 70° | 0 | 302 | 302 | 0 | 0 |
| 75° | 0 | 399 | 399 | 0 | 0 |
| 80° | 0 | 595 | 1190 | 595 | 0 |
| 85° | 0 | 1186 | 1186 | 1186 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 215648 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 30.5 | 4.9 |
| 10°-20° | 89.3 | 14.5 |
| 20°-30° | 145.2 | 23.5 |
| 30°-40° | 172.5 | 28.0 |
| 40°-50° | 141.1 | 22.9 |
| 50°-60° | 37.4 | 6.1 |
| 60°-70° | 0.2 | 0.0 |
| 70°-80° | 0.4 | 0.1 |
| 80°-90° | 0.5 | 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° | 264.9 | 42.9 |
| 0°-40° | 437.5 | 70.9 |
| 0°-60° | 615.9 | 99.8 |
| 0°-90° | 617.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 617.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 333 | 333 | 333 | 333 | 333 | |
| 5° | 582 | 519 | 322 | 134 | 77 | 57 |
| 15° | 821 | 646 | 183 | 3 | 2 | 230 |
| 25° | 884 | 787 | 22 | 0 | 0 | 416 |
| 35° | 997 | 626 | 0 | 0 | 0 | 620 |
| 45° | 885 | 275 | 0 | 0 | 0 | 636 |
| 55° | 179 | 0 | 0 | 0 | 0 | 201 |
| 65° | 0 | 1 | 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° | 67.5° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 333.4 | 333.4 | 333.4 | 333.4 | 333.4 | 333.4 | 333.4 | 333.4 | 333.4 | 333.4 | 333.4 |
| 2.5° | 473.1 | 469.7 | 470.2 | 468.5 | 470.2 | 462.7 | 454.6 | 447.0 | 441.2 | 433.1 | 383.8 |
| 5° | 582.1 | 576.3 | 574.6 | 572.3 | 570.0 | 560.7 | 553.2 | 543.9 | 532.9 | 518.9 | 428.5 |
| 7.5° | 637.2 | 632.6 | 630.3 | 631.4 | 626.2 | 622.7 | 612.9 | 602.4 | 590.8 | 575.8 | 462.1 |
| 10° | 658.7 | 654.0 | 653.5 | 652.9 | 652.3 | 650.0 | 645.3 | 636.1 | 625.6 | 614.0 | 481.3 |
| 12.5° | 714.9 | 704.5 | 697.5 | 689.4 | 679.6 | 666.8 | 656.4 | 648.2 | 644.2 | 634.9 | 490.0 |
| 15° | 821.0 | 811.2 | 803.6 | 793.2 | 774.6 | 747.4 | 722.5 | 690.6 | 662.7 | 646.5 | 486.5 |
| 17.5° | 874.4 | 869.7 | 863.4 | 856.4 | 843.6 | 823.9 | 798.4 | 764.8 | 729.4 | 683.6 | 469.7 |
| 20° | 890.0 | 887.7 | 883.1 | 880.2 | 871.5 | 857.6 | 840.2 | 814.1 | 781.0 | 735.8 | 443.6 |
| 22.5° | 883.7 | 885.4 | 887.7 | 895.3 | 896.4 | 886.6 | 870.3 | 845.4 | 811.8 | 770.0 | 403.6 |
| 25° | 883.7 | 882.5 | 882.5 | 898.2 | 908.0 | 903.4 | 891.8 | 869.2 | 834.9 | 787.4 | 354.3 |
| 27.5° | 906.3 | 899.3 | 884.8 | 901.0 | 917.3 | 915.5 | 905.1 | 878.4 | 840.2 | 788.0 | 294.0 |
| 30° | 943.4 | 928.3 | 904.5 | 919.6 | 934.7 | 928.3 | 911.5 | 877.3 | 828.6 | 762.5 | 220.3 |
| 32.5° | 984.5 | 977.6 | 965.4 | 975.3 | 972.9 | 947.4 | 917.3 | 869.7 | 804.8 | 711.4 | 148.4 |
| 35° | 997.3 | 998.5 | 990.3 | 988.6 | 975.3 | 949.2 | 917.3 | 848.3 | 754.9 | 626.2 | 88.1 |
| 37.5° | 1001.4 | 1001.9 | 989.2 | 972.9 | 953.2 | 922.5 | 884.2 | 804.2 | 662.7 | 543.9 | 47.0 |
| 40° | 981.1 | 980.5 | 959.6 | 939.9 | 917.9 | 887.7 | 832.1 | 711.4 | 575.2 | 471.4 | 16.8 |
| 42.5° | 950.9 | 943.4 | 923.7 | 899.3 | 872.6 | 834.9 | 748.0 | 600.7 | 499.8 | 377.5 | 1.2 |
| 45° | 885.4 | 878.4 | 862.8 | 836.7 | 807.1 | 753.8 | 616.4 | 516.0 | 406.5 | 274.8 | 0.0 |
| 47.5° | 673.2 | 669.7 | 685.9 | 689.4 | 688.8 | 628.0 | 514.3 | 421.0 | 298.6 | 160.0 | 0.0 |
| 50° | 612.9 | 608.2 | 592.0 | 571.1 | 534.0 | 483.0 | 412.3 | 311.9 | 175.1 | 51.0 | 0.0 |
| 52.5° | 440.1 | 455.2 | 458.6 | 443.0 | 408.2 | 357.8 | 284.1 | 179.7 | 60.9 | 0.0 | 0.0 |
| 55° | 179.2 | 169.9 | 176.8 | 185.5 | 192.5 | 176.8 | 131.0 | 63.8 | 0.6 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.6 | 3.5 | 8.1 | 13.3 | 16.8 | 18.0 | 1.2 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.6 | 0.6 | 0.6 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 0.6 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 0.6 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 0.6 | 1.2 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 0.6 | 1.2 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 0.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 0.6 |
| 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):

| | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|--------|-------|--------|-------|
| 0° | 333.4 | 333.4 | 333.4 | 333.4 | 333.4 |
| 2.5° | 334.6 | 283.0 | 233.1 | 205.8 | 192.5 |
| 5° | 322.4 | 216.3 | 133.9 | 92.8 | 77.1 |
| 7.5° | 302.1 | 148.4 | 53.3 | 22.0 | 15.7 |
| 10° | 272.5 | 85.2 | 14.5 | 5.8 | 5.2 |
| 12.5° | 230.2 | 38.8 | 5.2 | 4.1 | 4.1 |
| 15° | 183.2 | 13.3 | 2.9 | 2.3 | 1.7 |
| 17.5° | 128.7 | 3.5 | 1.2 | 0.0 | 0.0 |
| 20° | 78.3 | 0.6 | 0.0 | 0.0 | 0.0 |
| 22.5° | 43.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25° | 21.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27.5° | 9.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 |
| 70° | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 |
| 75° | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 |
| 77.5° | 1.2 | 0.6 | 0.6 | 0.0 | 0.0 |
| 80° | 1.2 | 0.6 | 0.6 | 0.0 | 0.0 |
| 82.5° | 1.2 | 0.6 | 0.6 | 0.0 | 0.0 |
| 85° | 0.6 | 0.6 | 0.6 | 0.0 | 0.0 |
| 87.5° | 1.2 | 0.6 | 0.6 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)