

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: P1326909

Luminaire Tested: LDSQA3D09R50W2N902765DE010 3LSQCA45R 1MB_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R50W2N902765DE010 3LSQCA45R 1MB_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R50 optic, 2700K CCT AND, 90CRI ,
3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

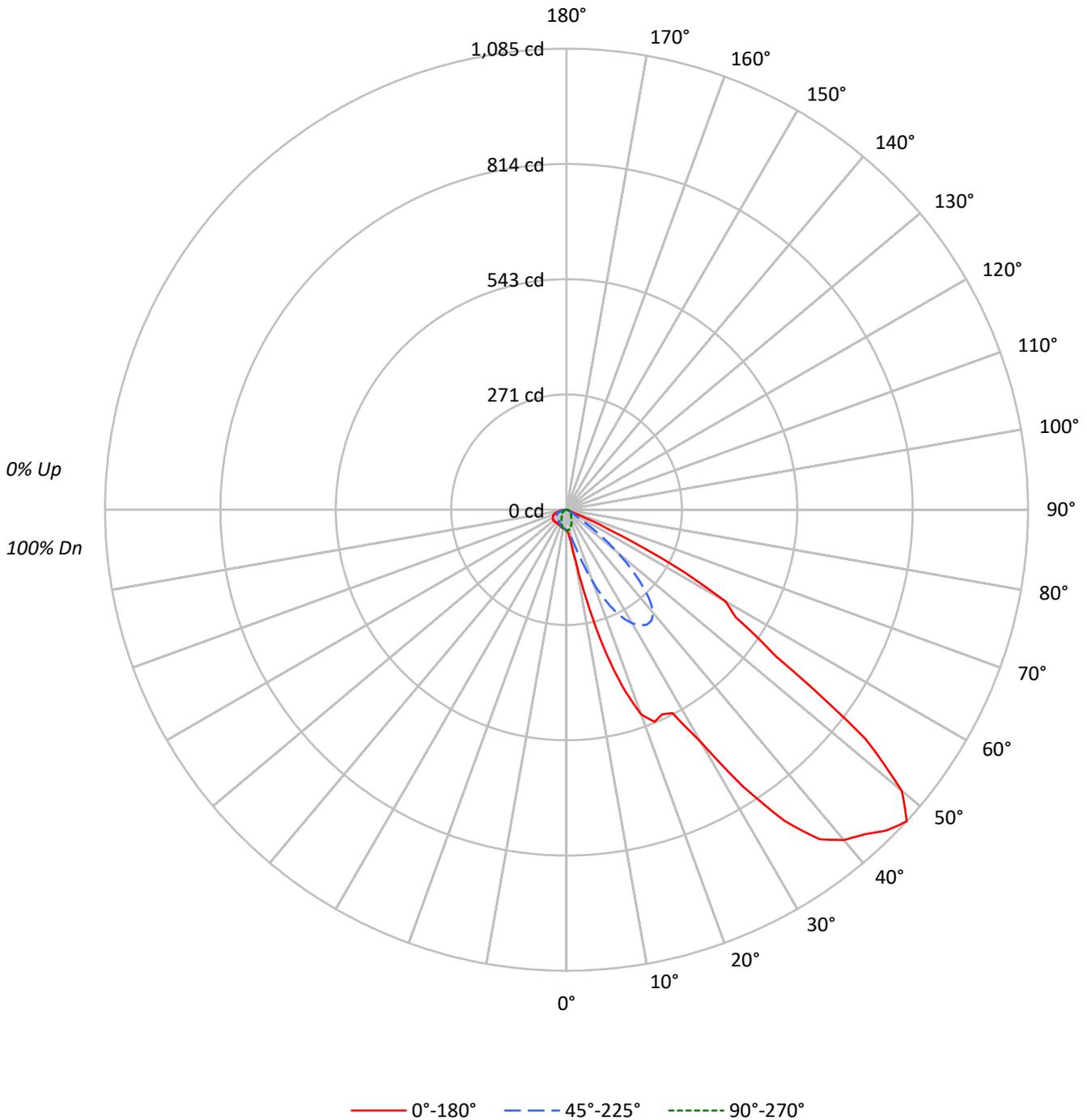
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 612.0 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.83 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 9
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: P1326909

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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 | 100 | 100 | 100 | 100 |
| 1 | 110 | 106 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | 86 | 86 | 86 | 86 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 75 | 73 | 73 | 73 | 73 |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 | 61 | 61 | 61 |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 | 51 | 51 | 51 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 60 | 52 | 46 | 58 | 51 | 46 | 56 | 50 | 45 | 43 | 43 | 43 | 43 |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 39 | 51 | 44 | 39 | 50 | 43 | 39 | 37 | 37 | 37 | 37 |
| 7 | 63 | 50 | 41 | 34 | 62 | 49 | 40 | 34 | 47 | 39 | 34 | 46 | 39 | 34 | 44 | 38 | 33 | 31 | 31 | 31 | 31 |
| 8 | 58 | 44 | 36 | 30 | 57 | 44 | 35 | 29 | 42 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 27 | 27 | 27 | 27 |
| 9 | 54 | 40 | 31 | 26 | 53 | 39 | 31 | 26 | 38 | 31 | 25 | 37 | 30 | 25 | 36 | 30 | 25 | 23 | 23 | 23 | 23 |
| 10 | 50 | 36 | 28 | 23 | 49 | 36 | 28 | 22 | 35 | 27 | 22 | 34 | 27 | 22 | 33 | 27 | 22 | 20 | 20 | 20 | 20 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|-------|------|-------|-------|
| 0° | 8370 | 8370 | 8370 | 8370 | 8370 |
| 5° | 9958 | 9318 | 8316 | 7953 | 7866 |
| 10° | 21440 | 11560 | 7957 | 7677 | 7765 |
| 15° | 59373 | 18953 | 7168 | 7346 | 7631 |
| 20° | 93874 | 33228 | 6195 | 7074 | 7459 |
| 25° | 100961 | 48818 | 5321 | 6822 | 7525 |
| 30° | 125305 | 61290 | 4634 | 6722 | 7776 |
| 35° | 188043 | 69360 | 3995 | 6770 | 8221 |
| 40° | 228058 | 71313 | 3575 | 7014 | 8678 |
| 45° | 259805 | 61158 | 3483 | 7477 | 9523 |
| 50° | 275754 | 42199 | 3537 | 8065 | 10610 |
| 55° | 180157 | 16995 | 3483 | 8738 | 11740 |
| 60° | 148559 | 2928 | 3444 | 9472 | 12917 |
| 65° | 44826 | 1508 | 3219 | 10106 | 14222 |
| 70° | 1863 | 1611 | 3172 | 10373 | 15459 |
| 75° | 1730 | 1730 | 3194 | 10580 | 16902 |
| 80° | 1587 | 1587 | 3174 | 10513 | 17257 |
| 85° | 988 | 2174 | 4150 | 10473 | 16796 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 276641 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 5.1 | 0.8 |
| 10°-20° | 29.0 | 4.7 |
| 20°-30° | 74.5 | 12.2 |
| 30°-40° | 133.8 | 21.9 |
| 40°-50° | 178.7 | 29.2 |
| 50°-60° | 136.1 | 22.2 |
| 60°-70° | 41.3 | 6.8 |
| 70°-80° | 9.9 | 1.6 |
| 80°-90° | 3.6 | 0.6 |
| 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° | 108.5 | 17.7 |
| 0°-40° | 242.4 | 39.6 |
| 0°-60° | 557.2 | 91.1 |
| 0°-90° | 612.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 612.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 49 | 49 | 49 | 49 | 49 | |
| 5° | 58 | 54 | 48 | 46 | 46 | 7 |
| 15° | 333 | 106 | 40 | 41 | 43 | 98 |
| 25° | 531 | 257 | 28 | 36 | 40 | 253 |
| 35° | 894 | 330 | 19 | 32 | 39 | 549 |
| 45° | 1067 | 251 | 14 | 31 | 39 | 816 |
| 55° | 600 | 57 | 12 | 29 | 39 | 597 |
| 65° | 110 | 4 | 8 | 25 | 35 | 152 |
| 75° | 3 | 3 | 5 | 16 | 25 | 3 |
| 85° | 0 | 1 | 2 | 5 | 8 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|------|
| 0° | 48.6 | 48.6 | 48.6 | 48.6 | 48.6 | 48.6 | 48.6 | 48.6 | 48.6 | 48.6 | 48.6 |
| 2.5° | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.3 | 51.3 | 51.3 | 50.2 | 49.2 |
| 5° | 57.6 | 58.1 | 57.6 | 57.6 | 56.6 | 56.6 | 55.5 | 55.5 | 53.9 | 50.7 | 48.1 |
| 7.5° | 75.6 | 75.1 | 74.5 | 72.4 | 70.8 | 67.1 | 65.5 | 62.9 | 58.1 | 50.7 | 47.0 |
| 10° | 122.6 | 119.5 | 117.4 | 112.6 | 102.6 | 96.2 | 87.7 | 79.3 | 66.1 | 50.7 | 45.5 |
| 12.5° | 213.0 | 212.5 | 206.2 | 190.3 | 176.0 | 156.5 | 135.9 | 115.2 | 81.4 | 49.7 | 43.3 |
| 15° | 333.0 | 328.3 | 319.3 | 300.8 | 275.4 | 244.7 | 207.7 | 171.3 | 106.3 | 48.1 | 40.2 |
| 17.5° | 435.6 | 429.8 | 422.9 | 404.4 | 375.3 | 336.7 | 292.3 | 242.1 | 140.1 | 46.0 | 37.0 |
| 20° | 512.2 | 508.5 | 502.7 | 487.9 | 460.4 | 425.5 | 375.8 | 315.1 | 181.3 | 43.3 | 33.8 |
| 22.5° | 540.2 | 539.7 | 540.8 | 535.5 | 521.7 | 494.2 | 446.7 | 383.2 | 222.0 | 40.2 | 30.7 |
| 25° | 531.3 | 530.7 | 537.6 | 544.5 | 547.6 | 536.5 | 500.1 | 438.2 | 256.9 | 37.5 | 28.0 |
| 27.5° | 539.7 | 538.1 | 535.0 | 536.0 | 545.0 | 551.3 | 534.4 | 480.5 | 287.0 | 33.8 | 25.4 |
| 30° | 630.1 | 621.1 | 606.8 | 582.5 | 564.6 | 563.0 | 555.6 | 513.8 | 308.2 | 30.1 | 23.3 |
| 32.5° | 771.2 | 760.1 | 734.2 | 689.3 | 646.5 | 613.7 | 590.5 | 541.8 | 323.0 | 26.4 | 20.6 |
| 35° | 894.4 | 886.5 | 856.3 | 811.9 | 750.6 | 689.3 | 647.0 | 583.1 | 329.9 | 23.3 | 19.0 |
| 37.5° | 977.9 | 974.8 | 945.2 | 897.6 | 835.2 | 762.8 | 706.7 | 625.3 | 328.3 | 19.6 | 17.4 |
| 40° | 1014.4 | 1004.9 | 980.0 | 939.9 | 877.0 | 811.9 | 752.7 | 652.3 | 317.2 | 15.9 | 15.9 |
| 42.5° | 1036.1 | 1025.5 | 998.5 | 960.5 | 898.6 | 829.4 | 758.0 | 640.7 | 290.7 | 12.7 | 15.3 |
| 45° | 1066.7 | 1055.6 | 1020.2 | 979.5 | 917.1 | 836.8 | 737.4 | 599.4 | 251.1 | 9.5 | 14.3 |
| 47.5° | 1085.2 | 1077.8 | 1051.4 | 1010.7 | 935.1 | 826.2 | 689.8 | 560.9 | 207.2 | 7.4 | 13.7 |
| 50° | 1029.2 | 1021.8 | 1002.2 | 974.2 | 923.5 | 790.8 | 648.1 | 498.5 | 157.5 | 5.8 | 13.2 |
| 52.5° | 885.9 | 892.3 | 896.0 | 903.9 | 866.9 | 711.5 | 585.7 | 448.8 | 106.3 | 4.8 | 12.2 |
| 55° | 600.0 | 609.5 | 620.1 | 651.8 | 695.1 | 633.3 | 520.2 | 388.0 | 56.6 | 4.8 | 11.6 |
| 57.5° | 471.5 | 468.3 | 465.2 | 463.1 | 496.9 | 522.3 | 457.2 | 310.3 | 24.3 | 4.8 | 10.6 |
| 60° | 431.3 | 421.8 | 415.5 | 417.1 | 434.0 | 423.9 | 362.1 | 202.5 | 8.5 | 4.8 | 10.0 |
| 62.5° | 282.8 | 290.2 | 304.5 | 328.8 | 317.2 | 272.2 | 210.4 | 80.3 | 4.2 | 4.8 | 9.0 |
| 65° | 110.0 | 106.3 | 110.0 | 116.8 | 101.0 | 75.1 | 47.0 | 14.3 | 3.7 | 4.2 | 7.9 |
| 67.5° | 14.8 | 13.2 | 10.0 | 6.3 | 5.8 | 5.3 | 4.2 | 3.7 | 3.7 | 4.2 | 7.4 |
| 70° | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.2 | 3.2 | 3.7 | 6.3 |
| 72.5° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.7 | 5.3 |
| 75° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 3.2 | 4.8 |
| 77.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.6 | 3.7 |
| 80° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 2.1 | 3.2 |
| 82.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.6 | 1.6 | 2.1 | 2.6 |
| 85° | 0.5 | 1.1 | 0.5 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.6 | 2.1 |
| 87.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.1 | 1.6 | 1.6 |
| 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):

| | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0° | 48.6 | 48.6 | 48.6 | 48.6 |
| 2.5° | 48.1 | 47.0 | 47.0 | 47.0 |
| 5° | 47.0 | 46.0 | 46.0 | 45.5 |
| 7.5° | 45.5 | 44.9 | 44.9 | 44.9 |
| 10° | 44.4 | 43.9 | 44.4 | 44.4 |
| 12.5° | 42.3 | 42.8 | 43.3 | 43.3 |
| 15° | 40.2 | 41.2 | 42.3 | 42.8 |
| 17.5° | 38.1 | 40.2 | 41.2 | 41.8 |
| 20° | 35.9 | 38.6 | 40.2 | 40.7 |
| 22.5° | 34.4 | 37.0 | 39.1 | 40.2 |
| 25° | 32.2 | 35.9 | 38.6 | 39.6 |
| 27.5° | 30.1 | 34.4 | 37.5 | 39.1 |
| 30° | 28.5 | 33.8 | 37.5 | 39.1 |
| 32.5° | 27.0 | 32.8 | 37.0 | 38.6 |
| 35° | 25.9 | 32.2 | 37.0 | 39.1 |
| 37.5° | 24.8 | 31.7 | 37.0 | 38.6 |
| 40° | 24.3 | 31.2 | 37.0 | 38.6 |
| 42.5° | 23.8 | 31.2 | 37.0 | 39.1 |
| 45° | 22.7 | 30.7 | 37.0 | 39.1 |
| 47.5° | 22.2 | 30.7 | 37.0 | 39.1 |
| 50° | 21.7 | 30.1 | 37.0 | 39.6 |
| 52.5° | 21.1 | 29.6 | 37.0 | 39.6 |
| 55° | 20.1 | 29.1 | 36.5 | 39.1 |
| 57.5° | 19.6 | 28.5 | 35.9 | 38.1 |
| 60° | 18.5 | 27.5 | 34.9 | 37.5 |
| 62.5° | 17.4 | 26.4 | 33.8 | 35.9 |
| 65° | 15.9 | 24.8 | 32.2 | 34.9 |
| 67.5° | 14.3 | 22.7 | 30.7 | 33.3 |
| 70° | 12.7 | 20.6 | 28.5 | 30.7 |
| 72.5° | 11.1 | 18.5 | 26.4 | 28.0 |
| 75° | 9.5 | 15.9 | 23.3 | 25.4 |
| 77.5° | 7.9 | 13.7 | 19.6 | 21.1 |
| 80° | 5.8 | 10.6 | 15.9 | 17.4 |
| 82.5° | 4.8 | 7.9 | 11.6 | 12.7 |
| 85° | 3.2 | 5.3 | 7.4 | 8.5 |
| 87.5° | 1.6 | 2.6 | 3.7 | 4.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)