

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: P1310569

Luminaire Tested: LDSQA3D17R509035DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310569
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: LDSQA3D17R509035DE010 3LSQCA45R 1MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 90CRI , 3LSQCA45R 1MMS TRII
Light Source: -
Ballast/Driver: -

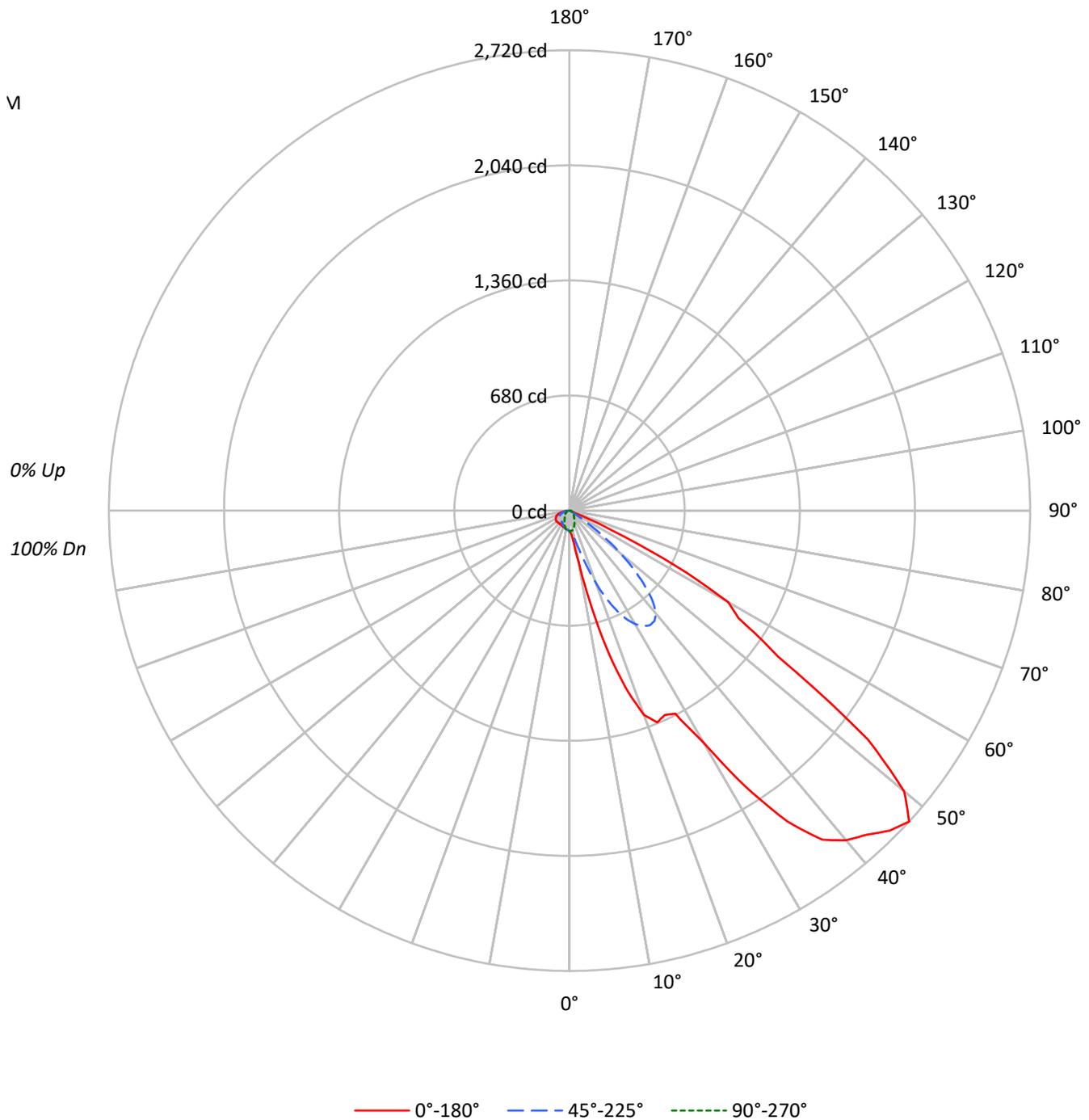
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1533.9 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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: P1310569

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|-------|-------|-------|
| 0° | 20994 | 20994 | 20994 | 20994 | 20994 |
| 5° | 24964 | 23356 | 20849 | 19933 | 19691 |
| 10° | 53758 | 28960 | 19919 | 19237 | 19464 |
| 15° | 148825 | 47481 | 17955 | 18418 | 19131 |
| 20° | 235307 | 83299 | 15542 | 17723 | 18694 |
| 25° | 253039 | 122358 | 13340 | 17121 | 18889 |
| 30° | 314088 | 153624 | 11594 | 16864 | 19489 |
| 35° | 471348 | 173831 | 10029 | 16988 | 20604 |
| 40° | 571629 | 178732 | 8925 | 17581 | 21740 |
| 45° | 651230 | 153296 | 8719 | 18705 | 23869 |
| 50° | 691181 | 105779 | 8869 | 20229 | 26632 |
| 55° | 451533 | 42577 | 8738 | 21889 | 29426 |
| 60° | 372414 | 7302 | 8680 | 23732 | 32412 |
| 65° | 112311 | 3790 | 8110 | 25388 | 35617 |
| 70° | 4683 | 3978 | 8006 | 26033 | 38672 |
| 75° | 4392 | 4392 | 7918 | 26417 | 42321 |
| 80° | 3967 | 3967 | 7835 | 26282 | 43341 |
| 85° | 2569 | 5138 | 10473 | 26084 | 41892 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 693438 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 12.7 | 0.8 |
| 10°-20° | 72.6 | 4.7 |
| 20°-30° | 186.7 | 12.2 |
| 30°-40° | 335.4 | 21.9 |
| 40°-50° | 448.0 | 29.2 |
| 50°-60° | 341.2 | 22.2 |
| 60°-70° | 103.6 | 6.8 |
| 70°-80° | 24.7 | 1.6 |
| 80°-90° | 8.9 | 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° | 272.1 | 17.7 |
| 0°-40° | 607.5 | 39.6 |
| 0°-60° | 1396.7 | 91.1 |
| 0°-90° | 1533.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1533.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 122 | 122 | 122 | 122 | 122 | |
| 5° | 144 | 135 | 121 | 115 | 114 | 19 |
| 15° | 835 | 266 | 101 | 103 | 107 | 246 |
| 25° | 1332 | 644 | 70 | 90 | 99 | 635 |
| 35° | 2242 | 827 | 48 | 81 | 98 | 1376 |
| 45° | 2674 | 629 | 36 | 77 | 98 | 2044 |
| 55° | 1504 | 142 | 29 | 73 | 98 | 1496 |
| 65° | 276 | 9 | 20 | 62 | 87 | 381 |
| 75° | 7 | 7 | 12 | 40 | 64 | 7 |
| 85° | 1 | 3 | 5 | 13 | 21 | 2 |
| 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° | 121.9 | 121.9 | 121.9 | 121.9 | 121.9 | 121.9 | 121.9 | 121.9 | 121.9 | 121.9 | 121.9 |
| 2.5° | 129.8 | 129.8 | 129.8 | 129.8 | 129.8 | 129.8 | 128.5 | 128.5 | 128.5 | 125.9 | 123.2 |
| 5° | 144.4 | 145.7 | 144.4 | 144.4 | 141.8 | 141.8 | 139.1 | 139.1 | 135.1 | 127.2 | 120.6 |
| 7.5° | 189.5 | 188.1 | 186.8 | 181.5 | 177.5 | 168.3 | 164.3 | 157.7 | 145.7 | 127.2 | 117.9 |
| 10° | 307.4 | 299.4 | 294.1 | 282.2 | 257.0 | 241.1 | 219.9 | 198.7 | 165.6 | 127.2 | 113.9 |
| 12.5° | 534.0 | 532.6 | 516.7 | 477.0 | 441.2 | 392.2 | 340.5 | 288.8 | 204.0 | 124.5 | 108.6 |
| 15° | 834.7 | 822.8 | 800.3 | 753.9 | 690.3 | 613.5 | 520.7 | 429.3 | 266.3 | 120.6 | 100.7 |
| 17.5° | 1091.8 | 1077.2 | 1060.0 | 1013.6 | 940.7 | 844.0 | 732.7 | 606.8 | 351.1 | 115.3 | 92.7 |
| 20° | 1283.9 | 1274.6 | 1260.1 | 1223.0 | 1154.1 | 1066.6 | 942.1 | 789.7 | 454.5 | 108.6 | 84.8 |
| 22.5° | 1354.1 | 1352.8 | 1355.5 | 1342.2 | 1307.8 | 1238.9 | 1119.6 | 960.6 | 556.5 | 100.7 | 76.8 |
| 25° | 1331.6 | 1330.3 | 1347.5 | 1364.7 | 1372.7 | 1344.9 | 1253.4 | 1098.4 | 643.9 | 94.1 | 70.2 |
| 27.5° | 1352.8 | 1348.8 | 1340.9 | 1343.5 | 1366.1 | 1381.9 | 1339.6 | 1204.4 | 719.5 | 84.8 | 63.6 |
| 30° | 1579.4 | 1556.8 | 1521.1 | 1460.1 | 1415.1 | 1411.1 | 1392.5 | 1287.9 | 772.5 | 75.5 | 58.3 |
| 32.5° | 1933.1 | 1905.3 | 1840.4 | 1727.8 | 1620.4 | 1538.3 | 1480.0 | 1358.1 | 809.6 | 66.2 | 51.7 |
| 35° | 2241.9 | 2222.0 | 2146.5 | 2035.2 | 1881.5 | 1727.8 | 1621.8 | 1461.4 | 826.8 | 58.3 | 47.7 |
| 37.5° | 2451.2 | 2443.3 | 2369.1 | 2249.8 | 2093.5 | 1911.9 | 1771.5 | 1567.4 | 822.8 | 49.0 | 43.7 |
| 40° | 2542.6 | 2518.8 | 2456.5 | 2355.8 | 2198.1 | 2035.2 | 1886.8 | 1635.0 | 795.0 | 39.7 | 39.7 |
| 42.5° | 2597.0 | 2570.5 | 2502.9 | 2407.5 | 2252.5 | 2078.9 | 1900.0 | 1605.9 | 728.7 | 31.8 | 38.4 |
| 45° | 2673.8 | 2646.0 | 2557.2 | 2455.2 | 2298.8 | 2097.4 | 1848.3 | 1502.5 | 629.4 | 23.8 | 35.8 |
| 47.5° | 2720.2 | 2701.6 | 2635.4 | 2533.4 | 2343.9 | 2070.9 | 1729.1 | 1405.8 | 519.4 | 18.5 | 34.4 |
| 50° | 2579.7 | 2561.2 | 2512.2 | 2441.9 | 2314.7 | 1982.2 | 1624.4 | 1249.5 | 394.8 | 14.6 | 33.1 |
| 52.5° | 2220.7 | 2236.6 | 2245.8 | 2265.7 | 2173.0 | 1783.4 | 1468.1 | 1124.9 | 266.3 | 11.9 | 30.5 |
| 55° | 1503.8 | 1527.7 | 1554.2 | 1633.7 | 1742.3 | 1587.3 | 1303.8 | 972.5 | 141.8 | 11.9 | 29.1 |
| 57.5° | 1181.9 | 1173.9 | 1166.0 | 1160.7 | 1245.5 | 1309.1 | 1146.1 | 777.8 | 60.9 | 11.9 | 26.5 |
| 60° | 1081.2 | 1057.3 | 1041.4 | 1045.4 | 1087.8 | 1062.6 | 907.6 | 507.5 | 21.2 | 11.9 | 25.2 |
| 62.5° | 708.9 | 727.4 | 763.2 | 824.1 | 795.0 | 682.4 | 527.3 | 201.4 | 10.6 | 11.9 | 22.5 |
| 65° | 275.6 | 266.3 | 275.6 | 292.8 | 253.1 | 188.1 | 117.9 | 35.8 | 9.3 | 10.6 | 19.9 |
| 67.5° | 37.1 | 33.1 | 25.2 | 15.9 | 14.6 | 13.2 | 10.6 | 9.3 | 9.3 | 10.6 | 18.5 |
| 70° | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | 7.9 | 7.9 | 9.3 | 15.9 |
| 72.5° | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 9.3 | 13.2 |
| 75° | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 7.9 | 11.9 |
| 77.5° | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 6.6 | 9.3 |
| 80° | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 5.3 | 7.9 |
| 82.5° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 4.0 | 4.0 | 5.3 | 6.6 |
| 85° | 1.3 | 2.6 | 1.3 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 4.0 | 5.3 |
| 87.5° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 2.6 | 4.0 | 4.0 |
| 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° | 121.9 | 121.9 | 121.9 | 121.9 |
| 2.5° | 120.6 | 117.9 | 117.9 | 117.9 |
| 5° | 117.9 | 115.3 | 115.3 | 113.9 |
| 7.5° | 113.9 | 112.6 | 112.6 | 112.6 |
| 10° | 111.3 | 110.0 | 111.3 | 111.3 |
| 12.5° | 106.0 | 107.3 | 108.6 | 108.6 |
| 15° | 100.7 | 103.3 | 106.0 | 107.3 |
| 17.5° | 95.4 | 100.7 | 103.3 | 104.7 |
| 20° | 90.1 | 96.7 | 100.7 | 102.0 |
| 22.5° | 86.1 | 92.7 | 98.0 | 100.7 |
| 25° | 80.8 | 90.1 | 96.7 | 99.4 |
| 27.5° | 75.5 | 86.1 | 94.1 | 98.0 |
| 30° | 71.5 | 84.8 | 94.1 | 98.0 |
| 32.5° | 67.6 | 82.1 | 92.7 | 96.7 |
| 35° | 64.9 | 80.8 | 92.7 | 98.0 |
| 37.5° | 62.3 | 79.5 | 92.7 | 96.7 |
| 40° | 60.9 | 78.2 | 92.7 | 96.7 |
| 42.5° | 59.6 | 78.2 | 92.7 | 98.0 |
| 45° | 57.0 | 76.8 | 92.7 | 98.0 |
| 47.5° | 55.6 | 76.8 | 92.7 | 98.0 |
| 50° | 54.3 | 75.5 | 92.7 | 99.4 |
| 52.5° | 53.0 | 74.2 | 92.7 | 99.4 |
| 55° | 50.3 | 72.9 | 91.4 | 98.0 |
| 57.5° | 49.0 | 71.5 | 90.1 | 95.4 |
| 60° | 46.4 | 68.9 | 87.4 | 94.1 |
| 62.5° | 43.7 | 66.2 | 84.8 | 90.1 |
| 65° | 39.7 | 62.3 | 80.8 | 87.4 |
| 67.5° | 35.8 | 57.0 | 76.8 | 83.5 |
| 70° | 31.8 | 51.7 | 71.5 | 76.8 |
| 72.5° | 27.8 | 46.4 | 66.2 | 70.2 |
| 75° | 23.8 | 39.7 | 58.3 | 63.6 |
| 77.5° | 19.9 | 34.4 | 49.0 | 53.0 |
| 80° | 14.6 | 26.5 | 39.7 | 43.7 |
| 82.5° | 11.9 | 19.9 | 29.1 | 31.8 |
| 85° | 7.9 | 13.2 | 18.5 | 21.2 |
| 87.5° | 4.0 | 6.6 | 9.3 | 10.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)