

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: P1319281

Luminaire Tested: LDSQA3D13R509835DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319281
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: LDSQA3D13R509835DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

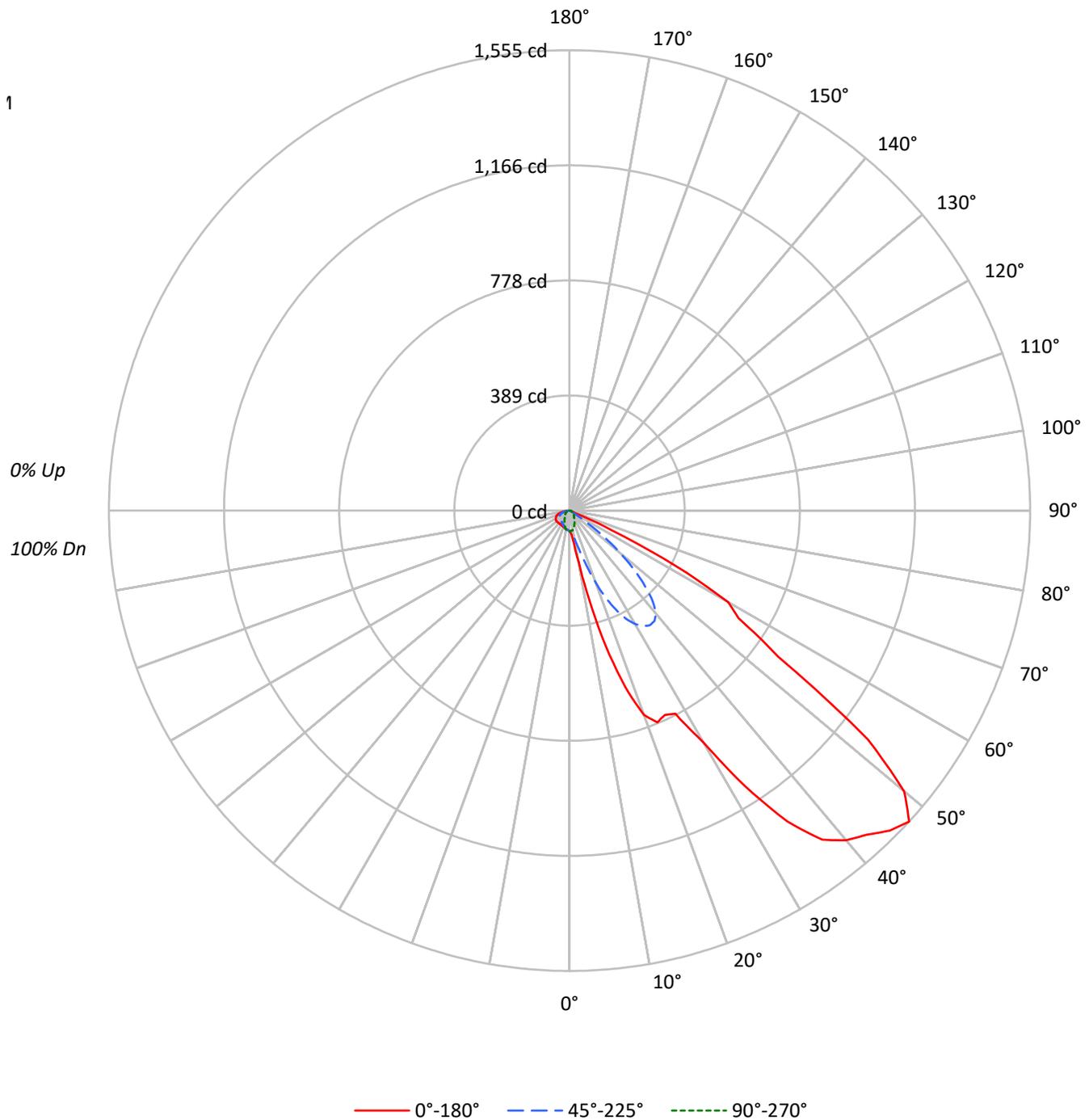
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 877.0 lumens
Efficiency: N/A
Efficacy: 60.5 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): 14.5
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: P1319281

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|-------|-------|-------|
| 0° | 12004 | 12004 | 12004 | 12004 | 12004 |
| 5° | 14280 | 13364 | 11911 | 11393 | 11255 |
| 10° | 30726 | 16561 | 11385 | 11000 | 11122 |
| 15° | 85084 | 27155 | 10270 | 10537 | 10947 |
| 20° | 134524 | 47615 | 8889 | 10135 | 10685 |
| 25° | 144667 | 69949 | 7620 | 9786 | 10794 |
| 30° | 179556 | 87819 | 6622 | 9645 | 11156 |
| 35° | 269471 | 99383 | 5740 | 9713 | 11795 |
| 40° | 326799 | 102181 | 5103 | 10049 | 12433 |
| 45° | 372305 | 87633 | 4993 | 10692 | 13664 |
| 50° | 395171 | 60472 | 5064 | 11575 | 15218 |
| 55° | 258164 | 24351 | 5014 | 12521 | 16845 |
| 60° | 212902 | 4168 | 4960 | 13571 | 18531 |
| 65° | 64224 | 2160 | 4646 | 14507 | 20376 |
| 70° | 2669 | 2266 | 4582 | 14855 | 22106 |
| 75° | 2529 | 2529 | 4525 | 15105 | 24221 |
| 80° | 2281 | 2281 | 4463 | 14976 | 24795 |
| 85° | 1581 | 2964 | 5928 | 15018 | 23910 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 396429 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 7.3 | 0.8 |
| 10°-20° | 41.5 | 4.7 |
| 20°-30° | 106.8 | 12.2 |
| 30°-40° | 191.7 | 21.9 |
| 40°-50° | 256.1 | 29.2 |
| 50°-60° | 195.1 | 22.2 |
| 60°-70° | 59.2 | 6.8 |
| 70°-80° | 14.1 | 1.6 |
| 80°-90° | 5.1 | 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° | 155.5 | 17.7 |
| 0°-40° | 347.3 | 39.6 |
| 0°-60° | 798.5 | 91.1 |
| 0°-90° | 877.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 877.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 70 | 70 | 70 | 70 | 70 | |
| 5° | 83 | 77 | 69 | 66 | 65 | 11 |
| 15° | 477 | 152 | 58 | 59 | 61 | 140 |
| 25° | 761 | 368 | 40 | 52 | 57 | 363 |
| 35° | 1282 | 473 | 27 | 46 | 56 | 787 |
| 45° | 1529 | 360 | 20 | 44 | 56 | 1169 |
| 55° | 860 | 81 | 17 | 42 | 56 | 855 |
| 65° | 158 | 5 | 11 | 36 | 50 | 218 |
| 75° | 4 | 4 | 7 | 23 | 36 | 4 |
| 85° | 1 | 2 | 3 | 8 | 12 | 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° | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 |
| 2.5° | 74.2 | 74.2 | 74.2 | 74.2 | 74.2 | 74.2 | 73.5 | 73.5 | 73.5 | 72.0 | 70.4 |
| 5° | 82.6 | 83.3 | 82.6 | 82.6 | 81.1 | 81.1 | 79.5 | 79.5 | 77.3 | 72.7 | 68.9 |
| 7.5° | 108.3 | 107.6 | 106.8 | 103.8 | 101.5 | 96.2 | 93.9 | 90.1 | 83.3 | 72.7 | 67.4 |
| 10° | 175.7 | 171.2 | 168.2 | 161.3 | 147.0 | 137.9 | 125.7 | 113.6 | 94.7 | 72.7 | 65.1 |
| 12.5° | 305.3 | 304.5 | 295.4 | 272.7 | 252.2 | 224.2 | 194.7 | 165.1 | 116.7 | 71.2 | 62.1 |
| 15° | 477.2 | 470.4 | 457.5 | 431.0 | 394.7 | 350.7 | 297.7 | 245.4 | 152.3 | 68.9 | 57.6 |
| 17.5° | 624.2 | 615.8 | 606.0 | 579.5 | 537.8 | 482.5 | 418.9 | 346.9 | 200.7 | 65.9 | 53.0 |
| 20° | 734.0 | 728.7 | 720.4 | 699.2 | 659.8 | 609.8 | 538.6 | 451.5 | 259.8 | 62.1 | 48.5 |
| 22.5° | 774.2 | 773.4 | 774.9 | 767.3 | 747.7 | 708.3 | 640.1 | 549.2 | 318.1 | 57.6 | 43.9 |
| 25° | 761.3 | 760.5 | 770.4 | 780.2 | 784.8 | 768.9 | 716.6 | 628.0 | 368.1 | 53.8 | 40.1 |
| 27.5° | 773.4 | 771.1 | 766.6 | 768.1 | 781.0 | 790.1 | 765.8 | 688.6 | 411.3 | 48.5 | 36.4 |
| 30° | 902.9 | 890.1 | 869.6 | 834.8 | 809.0 | 806.7 | 796.1 | 736.3 | 441.6 | 43.2 | 33.3 |
| 32.5° | 1105.2 | 1089.3 | 1052.2 | 987.8 | 926.4 | 879.5 | 846.1 | 776.4 | 462.8 | 37.9 | 29.5 |
| 35° | 1281.7 | 1270.3 | 1227.1 | 1163.5 | 1075.6 | 987.8 | 927.2 | 835.5 | 472.7 | 33.3 | 27.3 |
| 37.5° | 1401.4 | 1396.8 | 1354.4 | 1286.2 | 1196.8 | 1093.1 | 1012.8 | 896.1 | 470.4 | 28.0 | 25.0 |
| 40° | 1453.6 | 1440.0 | 1404.4 | 1346.8 | 1256.7 | 1163.5 | 1078.7 | 934.8 | 454.5 | 22.7 | 22.7 |
| 42.5° | 1484.7 | 1469.5 | 1430.9 | 1376.4 | 1287.7 | 1188.5 | 1086.3 | 918.1 | 416.6 | 18.2 | 22.0 |
| 45° | 1528.6 | 1512.7 | 1462.0 | 1403.6 | 1314.3 | 1199.1 | 1056.7 | 859.0 | 359.8 | 13.6 | 20.5 |
| 47.5° | 1555.1 | 1544.5 | 1506.7 | 1448.3 | 1340.0 | 1184.0 | 988.5 | 803.7 | 296.9 | 10.6 | 19.7 |
| 50° | 1474.9 | 1464.2 | 1436.2 | 1396.1 | 1323.4 | 1133.2 | 928.7 | 714.3 | 225.7 | 8.3 | 18.9 |
| 52.5° | 1269.6 | 1278.7 | 1284.0 | 1295.3 | 1242.3 | 1019.6 | 839.3 | 643.1 | 152.3 | 6.8 | 17.4 |
| 55° | 859.8 | 873.4 | 888.5 | 934.0 | 996.1 | 907.5 | 745.4 | 556.0 | 81.1 | 6.8 | 16.7 |
| 57.5° | 675.7 | 671.1 | 666.6 | 663.6 | 712.0 | 748.4 | 655.2 | 444.7 | 34.8 | 6.8 | 15.1 |
| 60° | 618.1 | 604.5 | 595.4 | 597.7 | 621.9 | 607.5 | 518.9 | 290.1 | 12.1 | 6.8 | 14.4 |
| 62.5° | 405.3 | 415.9 | 436.3 | 471.2 | 454.5 | 390.1 | 301.5 | 115.1 | 6.1 | 6.8 | 12.9 |
| 65° | 157.6 | 152.3 | 157.6 | 167.4 | 144.7 | 107.6 | 67.4 | 20.5 | 5.3 | 6.1 | 11.4 |
| 67.5° | 21.2 | 18.9 | 14.4 | 9.1 | 8.3 | 7.6 | 6.1 | 5.3 | 5.3 | 6.1 | 10.6 |
| 70° | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 4.5 | 4.5 | 5.3 | 9.1 |
| 72.5° | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 5.3 | 7.6 |
| 75° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 4.5 | 6.8 |
| 77.5° | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.8 | 5.3 |
| 80° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 3.0 | 4.5 |
| 82.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 2.3 | 2.3 | 3.0 | 3.8 |
| 85° | 0.8 | 1.5 | 0.8 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 2.3 | 3.0 |
| 87.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 | 2.3 | 2.3 |
| 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° | 69.7 | 69.7 | 69.7 | 69.7 |
| 2.5° | 68.9 | 67.4 | 67.4 | 67.4 |
| 5° | 67.4 | 65.9 | 65.9 | 65.1 |
| 7.5° | 65.1 | 64.4 | 64.4 | 64.4 |
| 10° | 63.6 | 62.9 | 63.6 | 63.6 |
| 12.5° | 60.6 | 61.4 | 62.1 | 62.1 |
| 15° | 57.6 | 59.1 | 60.6 | 61.4 |
| 17.5° | 54.5 | 57.6 | 59.1 | 59.8 |
| 20° | 51.5 | 55.3 | 57.6 | 58.3 |
| 22.5° | 49.2 | 53.0 | 56.1 | 57.6 |
| 25° | 46.2 | 51.5 | 55.3 | 56.8 |
| 27.5° | 43.2 | 49.2 | 53.8 | 56.1 |
| 30° | 40.9 | 48.5 | 53.8 | 56.1 |
| 32.5° | 38.6 | 47.0 | 53.0 | 55.3 |
| 35° | 37.1 | 46.2 | 53.0 | 56.1 |
| 37.5° | 35.6 | 45.4 | 53.0 | 55.3 |
| 40° | 34.8 | 44.7 | 53.0 | 55.3 |
| 42.5° | 34.1 | 44.7 | 53.0 | 56.1 |
| 45° | 32.6 | 43.9 | 53.0 | 56.1 |
| 47.5° | 31.8 | 43.9 | 53.0 | 56.1 |
| 50° | 31.1 | 43.2 | 53.0 | 56.8 |
| 52.5° | 30.3 | 42.4 | 53.0 | 56.8 |
| 55° | 28.8 | 41.7 | 52.3 | 56.1 |
| 57.5° | 28.0 | 40.9 | 51.5 | 54.5 |
| 60° | 26.5 | 39.4 | 50.0 | 53.8 |
| 62.5° | 25.0 | 37.9 | 48.5 | 51.5 |
| 65° | 22.7 | 35.6 | 46.2 | 50.0 |
| 67.5° | 20.5 | 32.6 | 43.9 | 47.7 |
| 70° | 18.2 | 29.5 | 40.9 | 43.9 |
| 72.5° | 15.9 | 26.5 | 37.9 | 40.1 |
| 75° | 13.6 | 22.7 | 33.3 | 36.4 |
| 77.5° | 11.4 | 19.7 | 28.0 | 30.3 |
| 80° | 8.3 | 15.1 | 22.7 | 25.0 |
| 82.5° | 6.8 | 11.4 | 16.7 | 18.2 |
| 85° | 4.5 | 7.6 | 10.6 | 12.1 |
| 87.5° | 2.3 | 3.8 | 5.3 | 6.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)