

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: P1310733

Luminaire Tested: LDSQA3D20R609035D010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R609035D010 3LSQCA45R 1MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 90CRI , 3LSQCA45R 1MMS TRII
Light Source: -
Ballast/Driver: -

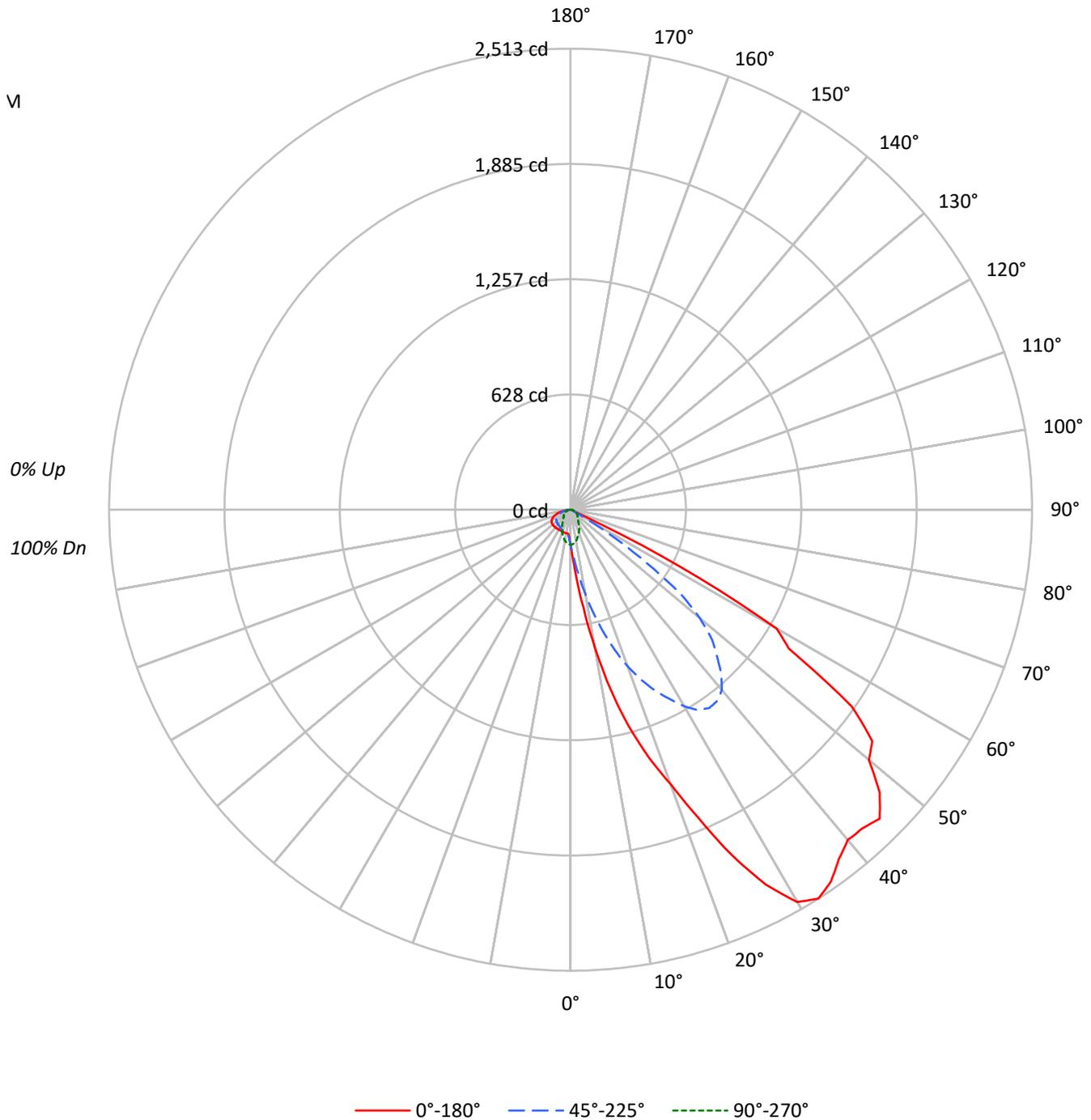
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1913.0 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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: P1310733

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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 | 99 | 108 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 89 | 87 | 87 | 87 | 87 | |
| 2 | 101 | 93 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 77 | 82 | 79 | 76 | 74 | 74 | 74 | 74 | |
| 3 | 92 | 82 | 74 | 68 | 90 | 81 | 73 | 68 | 78 | 72 | 67 | 75 | 70 | 65 | 72 | 68 | 64 | 62 | 62 | 62 | 62 | |
| 4 | 84 | 72 | 64 | 58 | 82 | 71 | 63 | 57 | 69 | 62 | 56 | 66 | 60 | 56 | 64 | 59 | 55 | 53 | 53 | 53 | 53 | |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 45 | 45 | 45 | 45 | |
| 6 | 70 | 57 | 48 | 42 | 69 | 56 | 48 | 42 | 54 | 47 | 41 | 53 | 46 | 41 | 51 | 45 | 41 | 39 | 39 | 39 | 39 | |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 35 | 33 | 33 | 33 | 33 | |
| 8 | 60 | 46 | 38 | 32 | 58 | 45 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 29 | 29 | 29 | 29 | |
| 9 | 55 | 42 | 33 | 28 | 54 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 27 | 38 | 32 | 27 | 25 | 25 | 25 | 25 | |
| 10 | 52 | 38 | 30 | 25 | 50 | 38 | 30 | 25 | 37 | 29 | 24 | 36 | 29 | 24 | 35 | 29 | 24 | 22 | 22 | 22 | 22 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|-------|-------|-------|
| 0° | 32636 | 32636 | 32636 | 32636 | 32636 |
| 5° | 64329 | 50204 | 32173 | 24359 | 23149 |
| 10° | 132891 | 81809 | 30114 | 22192 | 22507 |
| 15° | 217345 | 122776 | 26976 | 22323 | 22947 |
| 20° | 291610 | 166359 | 24229 | 22305 | 23258 |
| 25° | 394552 | 206521 | 21150 | 22138 | 24114 |
| 30° | 491059 | 245877 | 17639 | 22134 | 25236 |
| 35° | 519894 | 277124 | 14990 | 22664 | 26323 |
| 40° | 528171 | 288130 | 13692 | 23449 | 28530 |
| 45° | 579818 | 274443 | 13128 | 24989 | 30908 |
| 50° | 568415 | 246014 | 13048 | 26552 | 34000 |
| 55° | 561818 | 150911 | 13061 | 28705 | 37593 |
| 60° | 445643 | 35926 | 13778 | 30552 | 40713 |
| 65° | 28363 | 6398 | 13448 | 31175 | 43930 |
| 70° | 6143 | 6999 | 13143 | 32378 | 46427 |
| 75° | 5789 | 6920 | 11578 | 31275 | 47444 |
| 80° | 5157 | 6943 | 12100 | 31043 | 44829 |
| 85° | 3359 | 6916 | 13832 | 27467 | 44658 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 52.5°
 Luminance: 611984 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 23.7 | 1.2 |
| 10°-20° | 119.3 | 6.2 |
| 20°-30° | 276.6 | 14.5 |
| 30°-40° | 430.0 | 22.5 |
| 40°-50° | 490.0 | 25.6 |
| 50°-60° | 412.7 | 21.6 |
| 60°-70° | 119.7 | 6.3 |
| 70°-80° | 30.7 | 1.6 |
| 80°-90° | 10.4 | 0.5 |
| 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° | 419.5 | 21.9 |
| 0°-40° | 849.5 | 44.4 |
| 0°-60° | 1752.2 | 91.6 |
| 0°-90° | 1913.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1913.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 190 | 190 | 190 | 190 | 190 | |
| 5° | 372 | 290 | 186 | 141 | 134 | 48 |
| 15° | 1219 | 689 | 151 | 125 | 129 | 353 |
| 25° | 2076 | 1087 | 111 | 116 | 127 | 964 |
| 35° | 2473 | 1318 | 71 | 108 | 125 | 1536 |
| 45° | 2381 | 1127 | 54 | 103 | 127 | 1790 |
| 55° | 1871 | 503 | 44 | 96 | 125 | 1574 |
| 65° | 70 | 16 | 33 | 76 | 108 | 344 |
| 75° | 9 | 10 | 17 | 47 | 71 | 9 |
| 85° | 2 | 4 | 7 | 14 | 23 | 3 |
| 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° | 189.5 | 189.5 | 189.5 | 189.5 | 189.5 | 189.5 | 189.5 | 189.5 | 189.5 | 189.5 | 189.5 |
| 2.5° | 255.6 | 253.9 | 253.9 | 252.1 | 250.4 | 248.7 | 243.5 | 241.7 | 231.3 | 210.4 | 189.5 |
| 5° | 372.1 | 370.4 | 365.2 | 363.4 | 354.7 | 342.6 | 330.4 | 318.2 | 290.4 | 231.3 | 186.1 |
| 7.5° | 539.1 | 542.5 | 539.1 | 519.9 | 507.8 | 488.6 | 452.1 | 426.0 | 370.4 | 252.1 | 179.1 |
| 10° | 759.9 | 759.9 | 754.7 | 725.1 | 699.1 | 662.5 | 615.6 | 570.4 | 467.8 | 271.3 | 172.2 |
| 12.5° | 999.9 | 1005.1 | 979.0 | 954.7 | 907.7 | 862.5 | 798.2 | 730.4 | 579.1 | 286.9 | 163.5 |
| 15° | 1219.0 | 1215.5 | 1189.4 | 1158.1 | 1109.4 | 1046.8 | 979.0 | 892.1 | 688.6 | 297.4 | 151.3 |
| 17.5° | 1413.8 | 1406.8 | 1384.2 | 1349.4 | 1290.3 | 1220.7 | 1133.8 | 1039.9 | 801.7 | 306.1 | 142.6 |
| 20° | 1591.1 | 1566.8 | 1540.7 | 1504.2 | 1446.8 | 1373.8 | 1283.3 | 1177.3 | 907.7 | 306.1 | 132.2 |
| 22.5° | 1815.5 | 1791.1 | 1754.6 | 1698.9 | 1622.4 | 1532.0 | 1425.9 | 1305.9 | 1001.6 | 299.1 | 121.7 |
| 25° | 2076.3 | 2057.2 | 1994.6 | 1923.3 | 1824.2 | 1716.3 | 1592.9 | 1431.1 | 1086.8 | 288.7 | 111.3 |
| 27.5° | 2304.1 | 2283.2 | 2220.6 | 2116.3 | 1996.3 | 1867.6 | 1737.2 | 1572.0 | 1161.6 | 269.5 | 99.1 |
| 30° | 2469.3 | 2443.2 | 2394.5 | 2295.4 | 2149.3 | 1992.8 | 1838.1 | 1679.8 | 1236.4 | 246.9 | 88.7 |
| 32.5° | 2512.8 | 2509.3 | 2472.8 | 2399.7 | 2269.3 | 2097.2 | 1912.8 | 1740.7 | 1295.5 | 217.4 | 80.0 |
| 35° | 2472.8 | 2478.0 | 2471.0 | 2434.5 | 2338.9 | 2170.2 | 1961.5 | 1773.7 | 1318.1 | 187.8 | 71.3 |
| 37.5° | 2399.7 | 2406.7 | 2418.9 | 2424.1 | 2363.2 | 2213.7 | 1989.3 | 1787.6 | 1312.9 | 158.2 | 66.1 |
| 40° | 2349.3 | 2345.8 | 2345.8 | 2380.6 | 2368.4 | 2232.8 | 1992.8 | 1777.2 | 1281.6 | 126.9 | 60.9 |
| 42.5° | 2354.5 | 2316.3 | 2290.2 | 2345.8 | 2363.2 | 2224.1 | 1970.2 | 1749.4 | 1213.8 | 97.4 | 55.6 |
| 45° | 2380.6 | 2298.9 | 2253.7 | 2325.0 | 2352.8 | 2194.5 | 1928.5 | 1707.6 | 1126.8 | 67.8 | 53.9 |
| 47.5° | 2283.2 | 2229.3 | 2222.4 | 2323.2 | 2333.7 | 2144.1 | 1864.1 | 1641.6 | 1043.4 | 47.0 | 50.4 |
| 50° | 2121.5 | 2112.8 | 2149.3 | 2253.7 | 2255.4 | 2060.6 | 1791.1 | 1521.6 | 918.2 | 33.0 | 48.7 |
| 52.5° | 2071.1 | 2076.3 | 2109.3 | 2163.2 | 2112.8 | 1919.8 | 1659.0 | 1420.7 | 759.9 | 26.1 | 47.0 |
| 55° | 1871.1 | 1879.8 | 1911.1 | 1944.1 | 1907.6 | 1747.6 | 1499.0 | 1299.0 | 502.6 | 24.3 | 43.5 |
| 57.5° | 1408.5 | 1431.1 | 1488.5 | 1518.1 | 1521.6 | 1424.2 | 1358.1 | 1119.9 | 283.4 | 24.3 | 41.7 |
| 60° | 1293.8 | 1264.2 | 1238.1 | 1177.3 | 1121.6 | 1109.4 | 1116.4 | 839.9 | 104.3 | 22.6 | 40.0 |
| 62.5° | 676.4 | 662.5 | 702.5 | 728.6 | 735.6 | 773.8 | 723.4 | 443.4 | 22.6 | 22.6 | 36.5 |
| 65° | 69.6 | 69.6 | 85.2 | 113.0 | 187.8 | 250.4 | 238.2 | 128.7 | 15.7 | 20.9 | 33.0 |
| 67.5° | 20.9 | 20.9 | 20.9 | 24.3 | 31.3 | 31.3 | 26.1 | 19.1 | 15.7 | 19.1 | 29.6 |
| 70° | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 13.9 | 12.2 | 13.9 | 17.4 | 26.1 |
| 72.5° | 10.4 | 10.4 | 10.4 | 10.4 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 15.7 | 22.6 |
| 75° | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 10.4 | 10.4 | 12.2 | 17.4 |
| 77.5° | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 8.7 | 8.7 | 8.7 | 10.4 | 13.9 |
| 80° | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 7.0 | 7.0 | 7.0 | 7.0 | 8.7 | 12.2 |
| 82.5° | 3.5 | 3.5 | 3.5 | 3.5 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 7.0 | 8.7 |
| 85° | 1.7 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 5.2 | 7.0 |
| 87.5° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 3.5 | 3.5 | 5.2 |
| 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° | 189.5 | 189.5 | 189.5 | 189.5 |
| 2.5° | 172.2 | 160.0 | 153.0 | 149.5 |
| 5° | 156.5 | 140.9 | 135.6 | 133.9 |
| 7.5° | 142.6 | 132.2 | 130.4 | 130.4 |
| 10° | 133.9 | 126.9 | 128.7 | 128.7 |
| 12.5° | 128.7 | 126.9 | 128.7 | 130.4 |
| 15° | 123.5 | 125.2 | 128.7 | 128.7 |
| 17.5° | 120.0 | 123.5 | 126.9 | 128.7 |
| 20° | 114.8 | 121.7 | 126.9 | 126.9 |
| 22.5° | 111.3 | 120.0 | 125.2 | 126.9 |
| 25° | 107.8 | 116.5 | 123.5 | 126.9 |
| 27.5° | 102.6 | 114.8 | 123.5 | 125.2 |
| 30° | 97.4 | 111.3 | 121.7 | 126.9 |
| 32.5° | 92.2 | 109.6 | 121.7 | 125.2 |
| 35° | 88.7 | 107.8 | 121.7 | 125.2 |
| 37.5° | 85.2 | 106.1 | 121.7 | 126.9 |
| 40° | 83.5 | 104.3 | 120.0 | 126.9 |
| 42.5° | 80.0 | 104.3 | 120.0 | 126.9 |
| 45° | 78.3 | 102.6 | 120.0 | 126.9 |
| 47.5° | 76.5 | 100.9 | 120.0 | 126.9 |
| 50° | 73.0 | 99.1 | 118.2 | 126.9 |
| 52.5° | 71.3 | 97.4 | 118.2 | 126.9 |
| 55° | 67.8 | 95.6 | 116.5 | 125.2 |
| 57.5° | 66.1 | 92.2 | 114.8 | 121.7 |
| 60° | 62.6 | 88.7 | 111.3 | 118.2 |
| 62.5° | 57.4 | 83.5 | 106.1 | 114.8 |
| 65° | 52.2 | 76.5 | 100.9 | 107.8 |
| 67.5° | 47.0 | 71.3 | 93.9 | 100.9 |
| 70° | 41.7 | 64.3 | 85.2 | 92.2 |
| 72.5° | 36.5 | 55.6 | 76.5 | 81.7 |
| 75° | 31.3 | 47.0 | 64.3 | 71.3 |
| 77.5° | 24.3 | 38.3 | 53.9 | 59.1 |
| 80° | 19.1 | 31.3 | 41.7 | 45.2 |
| 82.5° | 15.7 | 22.6 | 31.3 | 33.0 |
| 85° | 10.4 | 13.9 | 19.1 | 22.6 |
| 87.5° | 5.2 | 7.0 | 8.7 | 10.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)