

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: P1308496

Luminaire Tested: LDSQA3D20R609027D010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308496
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: LDSQA3D20R609027D010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R60 optic, 2700K CCT AND, 90CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

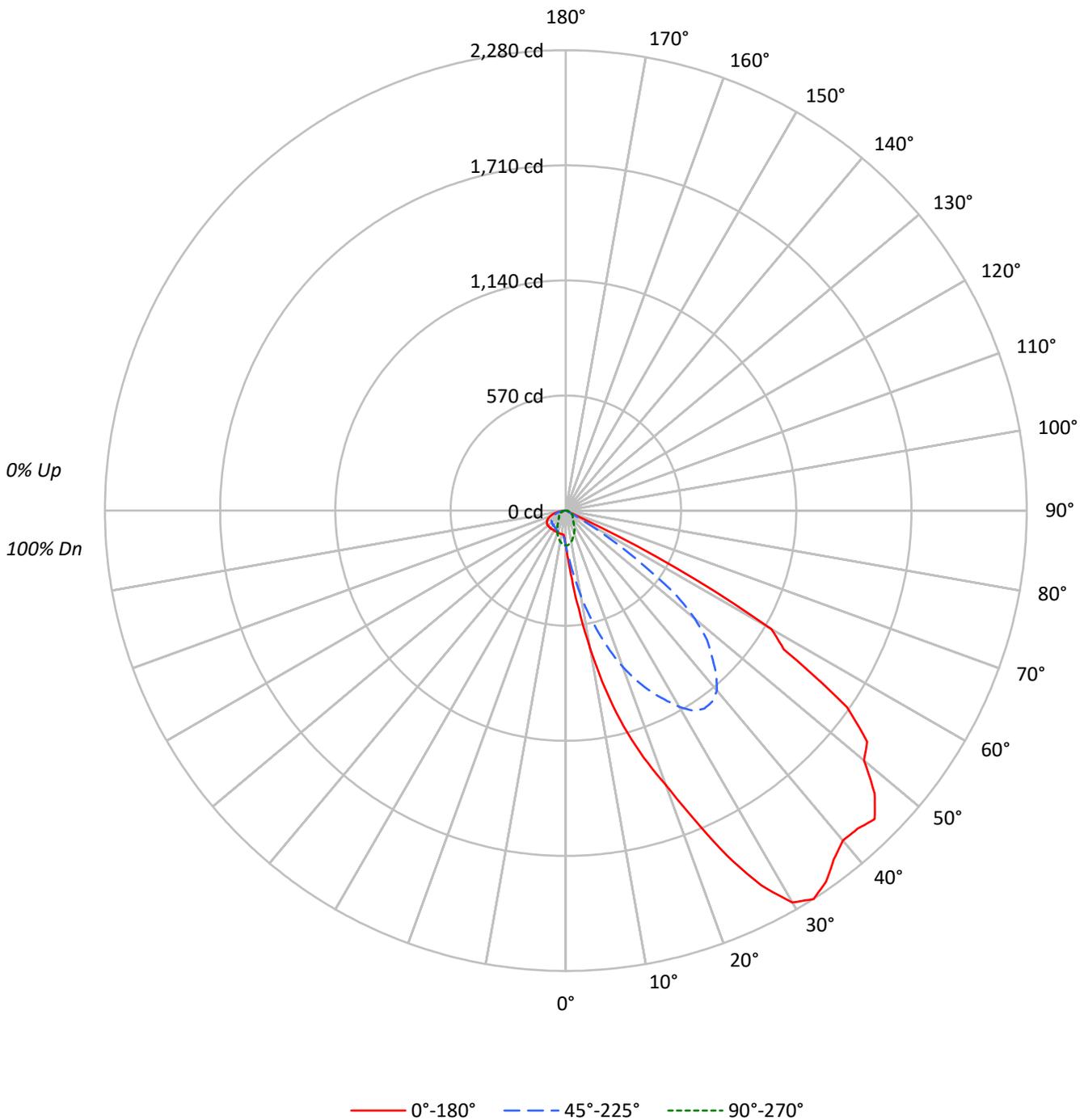
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1736.0 lumens
Efficiency: N/A
Efficacy: 60.3 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





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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 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 100 | |
| 1 | 110 | 106 | 102 | 99 | 108 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 89 | 89 | 87 | |
| 2 | 101 | 93 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 77 | 82 | 79 | 76 | 76 | 74 | |
| 3 | 92 | 82 | 74 | 68 | 90 | 81 | 73 | 68 | 78 | 72 | 67 | 75 | 70 | 65 | 72 | 68 | 64 | 64 | 62 | |
| 4 | 84 | 72 | 64 | 58 | 82 | 71 | 63 | 57 | 69 | 62 | 56 | 66 | 60 | 56 | 64 | 59 | 55 | 55 | 53 | |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 47 | 45 | |
| 6 | 70 | 57 | 48 | 42 | 69 | 56 | 48 | 42 | 54 | 47 | 41 | 53 | 46 | 41 | 51 | 45 | 41 | 41 | 39 | |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 35 | 35 | 33 | |
| 8 | 60 | 46 | 38 | 32 | 58 | 45 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 31 | 29 | |
| 9 | 55 | 42 | 33 | 28 | 54 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 27 | 38 | 32 | 27 | 27 | 25 | |
| 10 | 52 | 38 | 30 | 25 | 50 | 38 | 30 | 25 | 37 | 29 | 24 | 36 | 29 | 24 | 35 | 29 | 24 | 24 | 22 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|-------|-------|-------|
| 0° | 29622 | 29622 | 29622 | 29622 | 29622 |
| 5° | 58382 | 45554 | 29200 | 22094 | 21005 |
| 10° | 120597 | 74236 | 27316 | 20146 | 20426 |
| 15° | 197233 | 111418 | 24480 | 20255 | 20825 |
| 20° | 264632 | 150964 | 21975 | 20252 | 21113 |
| 25° | 358048 | 187423 | 19193 | 20086 | 21891 |
| 30° | 445618 | 223127 | 16009 | 20085 | 22909 |
| 35° | 471790 | 251495 | 13603 | 20562 | 23884 |
| 40° | 479295 | 261466 | 12410 | 21291 | 25899 |
| 45° | 526162 | 249064 | 11910 | 22675 | 28058 |
| 50° | 515821 | 223240 | 11843 | 24087 | 30866 |
| 55° | 509843 | 136949 | 11860 | 26063 | 34110 |
| 60° | 404413 | 32619 | 12503 | 27728 | 36959 |
| 65° | 25714 | 5787 | 12225 | 28281 | 39855 |
| 70° | 5539 | 6345 | 11934 | 29407 | 42096 |
| 75° | 5257 | 6321 | 10514 | 28347 | 43052 |
| 80° | 4661 | 6248 | 10910 | 28167 | 40663 |
| 85° | 3162 | 6323 | 12449 | 24898 | 40509 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 52.5°
 Luminance: 555374 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 21.5 | 1.2 |
| 10°-20° | 108.2 | 6.2 |
| 20°-30° | 251.0 | 14.5 |
| 30°-40° | 390.2 | 22.5 |
| 40°-50° | 444.6 | 25.6 |
| 50°-60° | 374.5 | 21.6 |
| 60°-70° | 108.7 | 6.3 |
| 70°-80° | 27.8 | 1.6 |
| 80°-90° | 9.4 | 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° | 380.7 | 21.9 |
| 0°-40° | 770.9 | 44.4 |
| 0°-60° | 1590.1 | 91.6 |
| 0°-90° | 1736.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1736.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 172 | 172 | 172 | 172 | 172 | |
| 5° | 338 | 264 | 169 | 128 | 122 | 43 |
| 15° | 1106 | 625 | 137 | 114 | 117 | 320 |
| 25° | 1884 | 986 | 101 | 106 | 115 | 875 |
| 35° | 2244 | 1196 | 65 | 98 | 114 | 1394 |
| 45° | 2160 | 1023 | 49 | 93 | 115 | 1624 |
| 55° | 1698 | 456 | 40 | 87 | 114 | 1429 |
| 65° | 63 | 14 | 30 | 69 | 98 | 312 |
| 75° | 8 | 10 | 16 | 43 | 65 | 8 |
| 85° | 2 | 3 | 6 | 13 | 20 | 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° | 172.0 | 172.0 | 172.0 | 172.0 | 172.0 | 172.0 | 172.0 | 172.0 | 172.0 | 172.0 | 172.0 |
| 2.5° | 232.0 | 230.4 | 230.4 | 228.8 | 227.2 | 225.7 | 220.9 | 219.3 | 209.9 | 190.9 | 172.0 |
| 5° | 337.7 | 336.1 | 331.4 | 329.8 | 321.9 | 310.9 | 299.8 | 288.8 | 263.5 | 209.9 | 168.9 |
| 7.5° | 489.2 | 492.4 | 489.2 | 471.8 | 460.8 | 443.4 | 410.3 | 386.6 | 336.1 | 228.8 | 162.5 |
| 10° | 689.6 | 689.6 | 684.9 | 658.0 | 634.4 | 601.2 | 558.6 | 517.6 | 424.5 | 246.2 | 156.2 |
| 12.5° | 907.4 | 912.1 | 888.4 | 866.3 | 823.7 | 782.7 | 724.3 | 662.8 | 525.5 | 260.4 | 148.3 |
| 15° | 1106.2 | 1103.1 | 1079.4 | 1051.0 | 1006.8 | 950.0 | 888.4 | 809.5 | 624.9 | 269.8 | 137.3 |
| 17.5° | 1283.0 | 1276.6 | 1256.1 | 1224.6 | 1170.9 | 1107.8 | 1028.9 | 943.7 | 727.5 | 277.7 | 129.4 |
| 20° | 1443.9 | 1421.8 | 1398.1 | 1365.0 | 1312.9 | 1246.7 | 1164.6 | 1068.3 | 823.7 | 277.7 | 119.9 |
| 22.5° | 1647.5 | 1625.4 | 1592.2 | 1541.8 | 1472.3 | 1390.3 | 1294.0 | 1185.1 | 909.0 | 271.4 | 110.5 |
| 25° | 1884.2 | 1866.8 | 1810.0 | 1745.3 | 1655.4 | 1557.5 | 1445.5 | 1298.7 | 986.3 | 262.0 | 101.0 |
| 27.5° | 2090.9 | 2072.0 | 2015.2 | 1920.5 | 1811.6 | 1694.8 | 1576.5 | 1426.6 | 1054.1 | 244.6 | 89.9 |
| 30° | 2240.8 | 2217.2 | 2173.0 | 2083.0 | 1950.5 | 1808.4 | 1668.0 | 1524.4 | 1122.0 | 224.1 | 80.5 |
| 32.5° | 2280.3 | 2277.1 | 2244.0 | 2177.7 | 2059.4 | 1903.1 | 1735.9 | 1579.6 | 1175.6 | 197.3 | 72.6 |
| 35° | 2244.0 | 2248.7 | 2242.4 | 2209.3 | 2122.5 | 1969.4 | 1780.0 | 1609.6 | 1196.2 | 170.4 | 64.7 |
| 37.5° | 2177.7 | 2184.0 | 2195.1 | 2199.8 | 2144.6 | 2008.9 | 1805.3 | 1622.2 | 1191.4 | 143.6 | 60.0 |
| 40° | 2131.9 | 2128.8 | 2128.8 | 2160.3 | 2149.3 | 2026.2 | 1808.4 | 1612.8 | 1163.0 | 115.2 | 55.2 |
| 42.5° | 2136.7 | 2102.0 | 2078.3 | 2128.8 | 2144.6 | 2018.3 | 1787.9 | 1587.5 | 1101.5 | 88.4 | 50.5 |
| 45° | 2160.3 | 2086.2 | 2045.1 | 2109.8 | 2135.1 | 1991.5 | 1750.1 | 1549.6 | 1022.6 | 61.5 | 48.9 |
| 47.5° | 2072.0 | 2023.1 | 2016.7 | 2108.3 | 2117.7 | 1945.7 | 1691.7 | 1489.7 | 946.8 | 42.6 | 45.8 |
| 50° | 1925.2 | 1917.3 | 1950.5 | 2045.1 | 2046.7 | 1870.0 | 1625.4 | 1380.8 | 833.2 | 30.0 | 44.2 |
| 52.5° | 1879.5 | 1884.2 | 1914.2 | 1963.1 | 1917.3 | 1742.2 | 1505.5 | 1289.3 | 689.6 | 23.7 | 42.6 |
| 55° | 1698.0 | 1705.9 | 1734.3 | 1764.3 | 1731.1 | 1585.9 | 1360.3 | 1178.8 | 456.1 | 22.1 | 39.5 |
| 57.5° | 1278.2 | 1298.7 | 1350.8 | 1377.6 | 1380.8 | 1292.4 | 1232.5 | 1016.3 | 257.2 | 22.1 | 37.9 |
| 60° | 1174.1 | 1147.2 | 1123.6 | 1068.3 | 1017.8 | 1006.8 | 1013.1 | 762.2 | 94.7 | 20.5 | 36.3 |
| 62.5° | 613.9 | 601.2 | 637.5 | 661.2 | 667.5 | 702.2 | 656.5 | 402.4 | 20.5 | 20.5 | 33.1 |
| 65° | 63.1 | 63.1 | 77.3 | 102.6 | 170.4 | 227.2 | 216.2 | 116.8 | 14.2 | 18.9 | 30.0 |
| 67.5° | 18.9 | 18.9 | 18.9 | 22.1 | 28.4 | 28.4 | 23.7 | 17.4 | 14.2 | 17.4 | 26.8 |
| 70° | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 12.6 | 11.0 | 12.6 | 15.8 | 23.7 |
| 72.5° | 9.5 | 9.5 | 9.5 | 9.5 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 14.2 | 20.5 |
| 75° | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 9.5 | 9.5 | 11.0 | 15.8 |
| 77.5° | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 7.9 | 7.9 | 7.9 | 9.5 | 12.6 |
| 80° | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 6.3 | 6.3 | 6.3 | 6.3 | 7.9 | 11.0 |
| 82.5° | 3.2 | 3.2 | 3.2 | 3.2 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 6.3 | 7.9 |
| 85° | 1.6 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 4.7 | 6.3 |
| 87.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 3.2 | 3.2 | 4.7 |
| 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° | 172.0 | 172.0 | 172.0 | 172.0 |
| 2.5° | 156.2 | 145.2 | 138.9 | 135.7 |
| 5° | 142.0 | 127.8 | 123.1 | 121.5 |
| 7.5° | 129.4 | 119.9 | 118.4 | 118.4 |
| 10° | 121.5 | 115.2 | 116.8 | 116.8 |
| 12.5° | 116.8 | 115.2 | 116.8 | 118.4 |
| 15° | 112.0 | 113.6 | 116.8 | 116.8 |
| 17.5° | 108.9 | 112.0 | 115.2 | 116.8 |
| 20° | 104.2 | 110.5 | 115.2 | 115.2 |
| 22.5° | 101.0 | 108.9 | 113.6 | 115.2 |
| 25° | 97.8 | 105.7 | 112.0 | 115.2 |
| 27.5° | 93.1 | 104.2 | 112.0 | 113.6 |
| 30° | 88.4 | 101.0 | 110.5 | 115.2 |
| 32.5° | 83.6 | 99.4 | 110.5 | 113.6 |
| 35° | 80.5 | 97.8 | 110.5 | 113.6 |
| 37.5° | 77.3 | 96.3 | 110.5 | 115.2 |
| 40° | 75.7 | 94.7 | 108.9 | 115.2 |
| 42.5° | 72.6 | 94.7 | 108.9 | 115.2 |
| 45° | 71.0 | 93.1 | 108.9 | 115.2 |
| 47.5° | 69.4 | 91.5 | 108.9 | 115.2 |
| 50° | 66.3 | 89.9 | 107.3 | 115.2 |
| 52.5° | 64.7 | 88.4 | 107.3 | 115.2 |
| 55° | 61.5 | 86.8 | 105.7 | 113.6 |
| 57.5° | 60.0 | 83.6 | 104.2 | 110.5 |
| 60° | 56.8 | 80.5 | 101.0 | 107.3 |
| 62.5° | 52.1 | 75.7 | 96.3 | 104.2 |
| 65° | 47.3 | 69.4 | 91.5 | 97.8 |
| 67.5° | 42.6 | 64.7 | 85.2 | 91.5 |
| 70° | 37.9 | 58.4 | 77.3 | 83.6 |
| 72.5° | 33.1 | 50.5 | 69.4 | 74.2 |
| 75° | 28.4 | 42.6 | 58.4 | 64.7 |
| 77.5° | 22.1 | 34.7 | 48.9 | 53.7 |
| 80° | 17.4 | 28.4 | 37.9 | 41.0 |
| 82.5° | 14.2 | 20.5 | 28.4 | 30.0 |
| 85° | 9.5 | 12.6 | 17.4 | 20.5 |
| 87.5° | 4.7 | 6.3 | 7.9 | 9.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)