

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: P1320465

Luminaire Tested: LDSQA3D20R609840D010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320465
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: LDSQA3D20R609840D010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

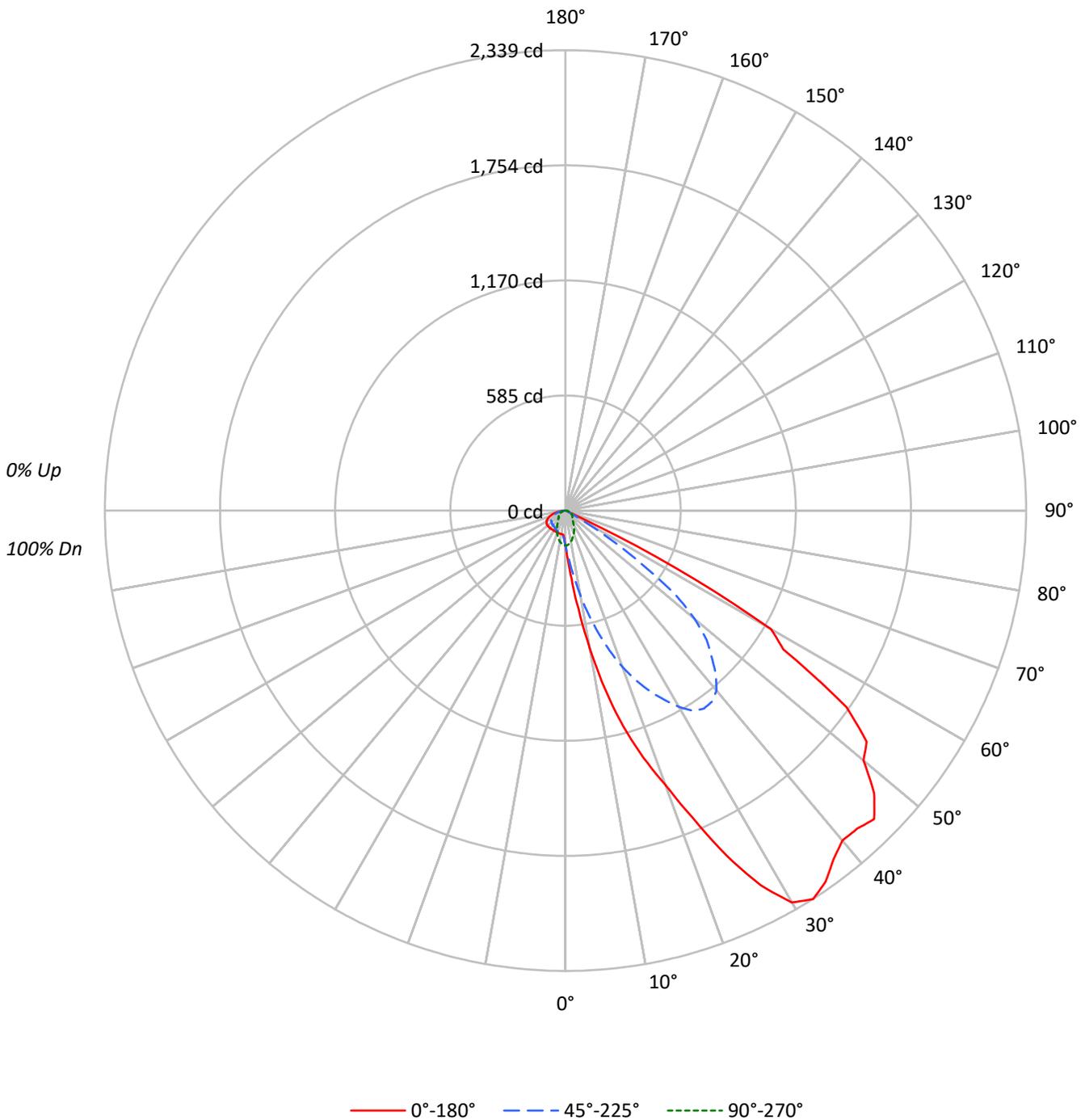
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1781.0 lumens
Efficiency: N/A
Efficacy: 65.0 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): 27.4
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 | 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 | 99 | 108 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 89 | 89 | 89 | 89 | 87 |
| 2 | 101 | 93 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 77 | 82 | 79 | 76 | 76 | 76 | 76 | 74 |
| 3 | 92 | 82 | 74 | 68 | 90 | 81 | 73 | 68 | 78 | 72 | 67 | 75 | 70 | 65 | 72 | 68 | 64 | 64 | 64 | 64 | 62 |
| 4 | 84 | 72 | 64 | 58 | 82 | 71 | 63 | 57 | 69 | 62 | 56 | 66 | 60 | 56 | 64 | 59 | 55 | 55 | 55 | 55 | 53 |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 47 | 47 | 47 | 45 |
| 6 | 70 | 57 | 48 | 42 | 69 | 56 | 48 | 42 | 54 | 47 | 41 | 53 | 46 | 41 | 51 | 45 | 41 | 41 | 41 | 41 | 39 |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 35 | 35 | 35 | 35 | 33 |
| 8 | 60 | 46 | 38 | 32 | 58 | 45 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 31 | 31 | 31 | 29 |
| 9 | 55 | 42 | 33 | 28 | 54 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 27 | 38 | 32 | 27 | 27 | 27 | 27 | 25 |
| 10 | 52 | 38 | 30 | 25 | 50 | 38 | 30 | 25 | 37 | 29 | 24 | 36 | 29 | 24 | 35 | 29 | 24 | 24 | 24 | 24 | 22 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|-------|-------|-------|
| 0° | 30397 | 30397 | 30397 | 30397 | 30397 |
| 5° | 59903 | 46747 | 29943 | 22665 | 21558 |
| 10° | 123727 | 76160 | 28033 | 20671 | 20951 |
| 15° | 202350 | 114307 | 25104 | 20790 | 21360 |
| 20° | 271486 | 154886 | 22543 | 20765 | 21663 |
| 25° | 367322 | 192269 | 19687 | 20618 | 22461 |
| 30° | 457172 | 228914 | 16426 | 20602 | 23506 |
| 35° | 484026 | 258013 | 13960 | 21109 | 24515 |
| 40° | 491728 | 268256 | 12747 | 21830 | 26574 |
| 45° | 539801 | 255518 | 12227 | 23260 | 28789 |
| 50° | 529190 | 229027 | 12137 | 24730 | 31669 |
| 55° | 523055 | 140492 | 12161 | 26723 | 35010 |
| 60° | 414884 | 33446 | 12813 | 28451 | 37923 |
| 65° | 26407 | 5950 | 12551 | 29015 | 40914 |
| 70° | 5690 | 6546 | 12236 | 30162 | 43204 |
| 75° | 5390 | 6455 | 10780 | 29079 | 44184 |
| 80° | 4860 | 6447 | 11207 | 28861 | 41754 |
| 85° | 3162 | 6323 | 12844 | 25688 | 41497 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 52.5°
 Luminance: 569774 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 22.0 | 1.2 |
| 10°-20° | 111.0 | 6.2 |
| 20°-30° | 257.5 | 14.5 |
| 30°-40° | 400.3 | 22.5 |
| 40°-50° | 456.2 | 25.6 |
| 50°-60° | 384.2 | 21.6 |
| 60°-70° | 111.5 | 6.3 |
| 70°-80° | 28.6 | 1.6 |
| 80°-90° | 9.7 | 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° | 390.6 | 21.9 |
| 0°-40° | 790.9 | 44.4 |
| 0°-60° | 1631.3 | 91.6 |
| 0°-90° | 1781.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1781.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 176 | 176 | 176 | 176 | 176 | |
| 5° | 346 | 270 | 173 | 131 | 125 | 44 |
| 15° | 1135 | 641 | 141 | 117 | 120 | 328 |
| 25° | 1933 | 1012 | 104 | 108 | 118 | 898 |
| 35° | 2302 | 1227 | 66 | 100 | 117 | 1430 |
| 45° | 2216 | 1049 | 50 | 96 | 118 | 1666 |
| 55° | 1742 | 468 | 40 | 89 | 117 | 1466 |
| 65° | 65 | 15 | 31 | 71 | 100 | 320 |
| 75° | 8 | 10 | 16 | 44 | 66 | 9 |
| 85° | 2 | 3 | 6 | 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° | 176.5 | 176.5 | 176.5 | 176.5 | 176.5 | 176.5 | 176.5 | 176.5 | 176.5 | 176.5 | 176.5 |
| 2.5° | 238.0 | 236.4 | 236.4 | 234.7 | 233.1 | 231.5 | 226.7 | 225.0 | 215.3 | 195.9 | 176.5 |
| 5° | 346.5 | 344.8 | 340.0 | 338.4 | 330.3 | 318.9 | 307.6 | 296.3 | 270.4 | 215.3 | 173.2 |
| 7.5° | 501.9 | 505.1 | 501.9 | 484.1 | 472.7 | 454.9 | 420.9 | 396.6 | 344.8 | 234.7 | 166.8 |
| 10° | 707.5 | 707.5 | 702.6 | 675.1 | 650.8 | 616.8 | 573.1 | 531.0 | 435.5 | 252.6 | 160.3 |
| 12.5° | 930.9 | 935.8 | 911.5 | 888.8 | 845.1 | 803.0 | 743.1 | 680.0 | 539.1 | 267.1 | 152.2 |
| 15° | 1134.9 | 1131.6 | 1107.4 | 1078.2 | 1032.9 | 974.6 | 911.5 | 830.5 | 641.1 | 276.8 | 140.8 |
| 17.5° | 1316.2 | 1309.7 | 1288.7 | 1256.3 | 1201.3 | 1136.5 | 1055.6 | 968.1 | 746.3 | 284.9 | 132.8 |
| 20° | 1481.3 | 1458.7 | 1434.4 | 1400.4 | 1347.0 | 1279.0 | 1194.8 | 1096.0 | 845.1 | 284.9 | 123.0 |
| 22.5° | 1690.2 | 1667.5 | 1633.5 | 1581.7 | 1510.5 | 1426.3 | 1327.5 | 1215.8 | 932.5 | 278.5 | 113.3 |
| 25° | 1933.0 | 1915.2 | 1856.9 | 1790.6 | 1698.3 | 1597.9 | 1483.0 | 1332.4 | 1011.8 | 268.7 | 103.6 |
| 27.5° | 2145.1 | 2125.7 | 2067.4 | 1970.3 | 1858.6 | 1738.8 | 1617.3 | 1463.5 | 1081.5 | 250.9 | 92.3 |
| 30° | 2298.9 | 2274.6 | 2229.3 | 2137.0 | 2001.0 | 1855.3 | 1711.2 | 1563.9 | 1151.1 | 229.9 | 82.6 |
| 32.5° | 2339.4 | 2336.1 | 2302.2 | 2234.2 | 2112.7 | 1952.5 | 1780.8 | 1620.6 | 1206.1 | 202.4 | 74.5 |
| 35° | 2302.2 | 2307.0 | 2300.5 | 2266.5 | 2177.5 | 2020.5 | 1826.2 | 1651.3 | 1227.2 | 174.8 | 66.4 |
| 37.5° | 2234.2 | 2240.6 | 2252.0 | 2256.8 | 2200.2 | 2060.9 | 1852.1 | 1664.3 | 1222.3 | 147.3 | 61.5 |
| 40° | 2187.2 | 2184.0 | 2184.0 | 2216.3 | 2205.0 | 2078.7 | 1855.3 | 1654.6 | 1193.2 | 118.2 | 56.7 |
| 42.5° | 2192.1 | 2156.4 | 2132.2 | 2184.0 | 2200.2 | 2070.6 | 1834.3 | 1628.7 | 1130.0 | 90.7 | 51.8 |
| 45° | 2216.3 | 2140.3 | 2098.2 | 2164.5 | 2190.4 | 2043.1 | 1795.4 | 1589.8 | 1049.1 | 63.1 | 50.2 |
| 47.5° | 2125.7 | 2075.5 | 2069.0 | 2162.9 | 2172.6 | 1996.2 | 1735.5 | 1528.3 | 971.4 | 43.7 | 46.9 |
| 50° | 1975.1 | 1967.0 | 2001.0 | 2098.2 | 2099.8 | 1918.5 | 1667.5 | 1416.6 | 854.8 | 30.8 | 45.3 |
| 52.5° | 1928.2 | 1933.0 | 1963.8 | 2014.0 | 1967.0 | 1787.3 | 1544.5 | 1322.7 | 707.5 | 24.3 | 43.7 |
| 55° | 1742.0 | 1750.1 | 1779.2 | 1810.0 | 1776.0 | 1627.0 | 1395.5 | 1209.4 | 467.9 | 22.7 | 40.5 |
| 57.5° | 1311.4 | 1332.4 | 1385.8 | 1413.3 | 1416.6 | 1325.9 | 1264.4 | 1042.6 | 263.9 | 22.7 | 38.9 |
| 60° | 1204.5 | 1177.0 | 1152.7 | 1096.0 | 1044.2 | 1032.9 | 1039.4 | 782.0 | 97.1 | 21.0 | 37.2 |
| 62.5° | 629.8 | 616.8 | 654.1 | 678.3 | 684.8 | 720.4 | 673.5 | 412.8 | 21.0 | 21.0 | 34.0 |
| 65° | 64.8 | 64.8 | 79.3 | 105.2 | 174.8 | 233.1 | 221.8 | 119.8 | 14.6 | 19.4 | 30.8 |
| 67.5° | 19.4 | 19.4 | 19.4 | 22.7 | 29.1 | 29.1 | 24.3 | 17.8 | 14.6 | 17.8 | 27.5 |
| 70° | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 13.0 | 11.3 | 13.0 | 16.2 | 24.3 |
| 72.5° | 9.7 | 9.7 | 9.7 | 9.7 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 14.6 | 21.0 |
| 75° | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 9.7 | 9.7 | 11.3 | 16.2 |
| 77.5° | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 8.1 | 8.1 | 8.1 | 9.7 | 13.0 |
| 80° | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 6.5 | 6.5 | 6.5 | 6.5 | 8.1 | 11.3 |
| 82.5° | 3.2 | 3.2 | 3.2 | 3.2 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 6.5 | 8.1 |
| 85° | 1.6 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 4.9 | 6.5 |
| 87.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 3.2 | 3.2 | 4.9 |
| 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° | 176.5 | 176.5 | 176.5 | 176.5 |
| 2.5° | 160.3 | 148.9 | 142.5 | 139.2 |
| 5° | 145.7 | 131.1 | 126.3 | 124.7 |
| 7.5° | 132.8 | 123.0 | 121.4 | 121.4 |
| 10° | 124.7 | 118.2 | 119.8 | 119.8 |
| 12.5° | 119.8 | 118.2 | 119.8 | 121.4 |
| 15° | 114.9 | 116.6 | 119.8 | 119.8 |
| 17.5° | 111.7 | 114.9 | 118.2 | 119.8 |
| 20° | 106.9 | 113.3 | 118.2 | 118.2 |
| 22.5° | 103.6 | 111.7 | 116.6 | 118.2 |
| 25° | 100.4 | 108.5 | 114.9 | 118.2 |
| 27.5° | 95.5 | 106.9 | 114.9 | 116.6 |
| 30° | 90.7 | 103.6 | 113.3 | 118.2 |
| 32.5° | 85.8 | 102.0 | 113.3 | 116.6 |
| 35° | 82.6 | 100.4 | 113.3 | 116.6 |
| 37.5° | 79.3 | 98.8 | 113.3 | 118.2 |
| 40° | 77.7 | 97.1 | 111.7 | 118.2 |
| 42.5° | 74.5 | 97.1 | 111.7 | 118.2 |
| 45° | 72.9 | 95.5 | 111.7 | 118.2 |
| 47.5° | 71.2 | 93.9 | 111.7 | 118.2 |
| 50° | 68.0 | 92.3 | 110.1 | 118.2 |
| 52.5° | 66.4 | 90.7 | 110.1 | 118.2 |
| 55° | 63.1 | 89.0 | 108.5 | 116.6 |
| 57.5° | 61.5 | 85.8 | 106.9 | 113.3 |
| 60° | 58.3 | 82.6 | 103.6 | 110.1 |
| 62.5° | 53.4 | 77.7 | 98.8 | 106.9 |
| 65° | 48.6 | 71.2 | 93.9 | 100.4 |
| 67.5° | 43.7 | 66.4 | 87.4 | 93.9 |
| 70° | 38.9 | 59.9 | 79.3 | 85.8 |
| 72.5° | 34.0 | 51.8 | 71.2 | 76.1 |
| 75° | 29.1 | 43.7 | 59.9 | 66.4 |
| 77.5° | 22.7 | 35.6 | 50.2 | 55.0 |
| 80° | 17.8 | 29.1 | 38.9 | 42.1 |
| 82.5° | 14.6 | 21.0 | 29.1 | 30.8 |
| 85° | 9.7 | 13.0 | 17.8 | 21.0 |
| 87.5° | 4.9 | 6.5 | 8.1 | 9.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)