

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: P1310713

Luminaire Tested: LDSQA3D20R509035D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R509035D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

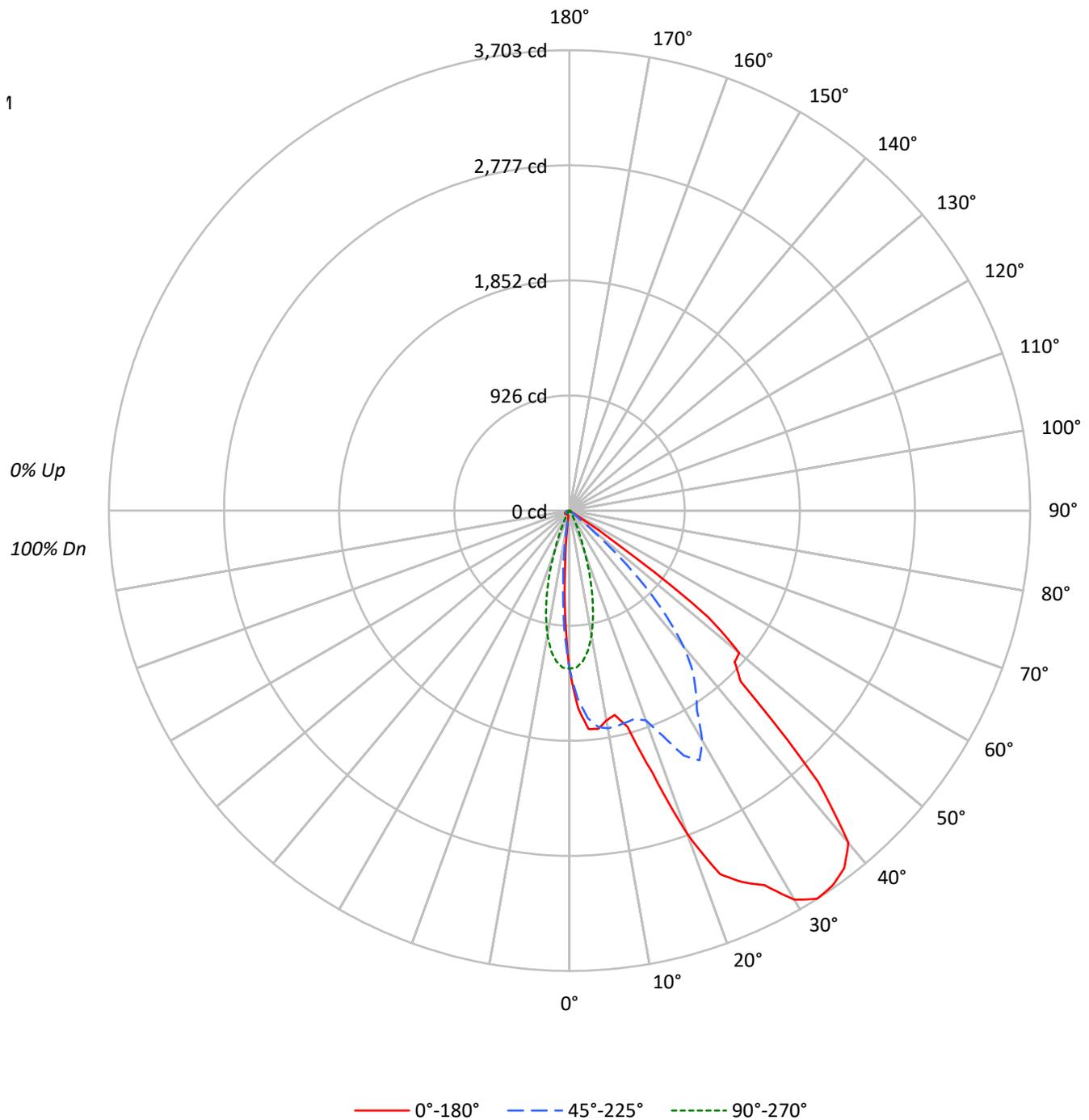
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1976.0 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
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: P1310713

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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 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 101 | 102 | 100 | 98 | 99 | 97 | 95 | 95 | 94 | 93 | 93 | 91 | |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | 91 | 88 | 85 | 88 | 85 | 83 | 83 | 81 | |
| 3 | 98 | 90 | 84 | 79 | 96 | 88 | 83 | 78 | 86 | 81 | 77 | 83 | 79 | 76 | 81 | 77 | 74 | 74 | 73 | |
| 4 | 91 | 82 | 75 | 70 | 89 | 81 | 74 | 69 | 78 | 73 | 68 | 76 | 71 | 68 | 74 | 70 | 67 | 67 | 65 | |
| 5 | 85 | 75 | 67 | 62 | 83 | 74 | 67 | 62 | 72 | 66 | 61 | 70 | 65 | 61 | 68 | 64 | 60 | 60 | 58 | |
| 6 | 79 | 68 | 61 | 56 | 78 | 68 | 61 | 55 | 66 | 60 | 55 | 64 | 59 | 55 | 63 | 58 | 54 | 54 | 53 | |
| 7 | 74 | 63 | 55 | 50 | 73 | 62 | 55 | 50 | 61 | 54 | 50 | 59 | 54 | 49 | 58 | 53 | 49 | 49 | 47 | |
| 8 | 69 | 58 | 51 | 45 | 68 | 57 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 45 | 43 | |
| 9 | 65 | 53 | 46 | 41 | 64 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 41 | 39 | |
| 10 | 61 | 50 | 43 | 38 | 60 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 37 | 46 | 41 | 37 | 37 | 36 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|--------|--------|--------|
| 0° | 218792 | 218792 | 218792 | 218792 | 218792 |
| 5° | 305065 | 289419 | 210309 | 101083 | 65591 |
| 10° | 299464 | 311041 | 177730 | 21300 | 9129 |
| 15° | 321150 | 314322 | 125664 | 7453 | 7132 |
| 20° | 507123 | 329163 | 66346 | 6378 | 6690 |
| 25° | 626670 | 413365 | 26452 | 5948 | 6613 |
| 30° | 718462 | 423942 | 10719 | 5886 | 6921 |
| 35° | 774585 | 372113 | 4752 | 6223 | 7674 |
| 40° | 784062 | 320437 | 3530 | 7037 | 8611 |
| 45° | 473870 | 207683 | 3385 | 7623 | 9742 |
| 50° | 477453 | 35903 | 3724 | 8869 | 11200 |
| 55° | 141093 | 2102 | 4174 | 9939 | 12551 |
| 60° | 2411 | 2411 | 4202 | 10781 | 13778 |
| 65° | 2119 | 2119 | 4238 | 11329 | 14874 |
| 70° | 2618 | 2618 | 4381 | 12287 | 16667 |
| 75° | 2329 | 2329 | 4658 | 12709 | 17367 |
| 80° | 1686 | 3471 | 5157 | 12100 | 18943 |
| 85° | 3359 | 6916 | 6916 | 13832 | 17191 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 541262 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 102.7 | 5.2 |
| 10°-20° | 255.1 | 12.9 |
| 20°-30° | 477.9 | 24.2 |
| 30°-40° | 571.3 | 28.9 |
| 40°-50° | 409.4 | 20.7 |
| 50°-60° | 126.2 | 6.4 |
| 60°-70° | 16.5 | 0.8 |
| 70°-80° | 12.0 | 0.6 |
| 80°-90° | 4.9 | 0.2 |
| 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° | 835.7 | 42.3 |
| 0°-40° | 1407.0 | 71.2 |
| 0°-60° | 1942.6 | 98.3 |
| 0°-90° | 1976.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1976.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1270 | 1270 | 1270 | 1270 | 1270 | |
| 5° | 1765 | 1674 | 1216 | 585 | 379 | 164 |
| 15° | 1801 | 1763 | 705 | 42 | 40 | 577 |
| 25° | 3298 | 2175 | 139 | 31 | 35 | 1520 |
| 35° | 3684 | 1770 | 23 | 30 | 36 | 2286 |
| 45° | 1946 | 853 | 14 | 31 | 40 | 1787 |
| 55° | 470 | 7 | 14 | 33 | 42 | 605 |
| 65° | 5 | 5 | 10 | 28 | 36 | 6 |
| 75° | 4 | 4 | 7 | 19 | 26 | 3 |
| 85° | 2 | 4 | 4 | 7 | 9 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1270.4 | 1270.4 | 1270.4 | 1270.4 | 1270.4 | 1270.4 | 1270.4 | 1270.4 | 1270.4 | 1270.4 | 1270.4 |
| 2.5° | 1588.9 | 1592.4 | 1597.6 | 1583.6 | 1574.9 | 1568.0 | 1555.8 | 1552.3 | 1522.7 | 1510.6 | 1498.4 |
| 5° | 1764.6 | 1761.2 | 1764.6 | 1759.4 | 1755.9 | 1745.5 | 1735.1 | 1717.7 | 1698.5 | 1674.1 | 1646.3 |
| 7.5° | 1769.9 | 1766.4 | 1773.3 | 1773.3 | 1780.3 | 1780.3 | 1780.3 | 1782.0 | 1771.6 | 1754.2 | 1729.8 |
| 10° | 1712.4 | 1712.4 | 1719.4 | 1715.9 | 1728.1 | 1733.3 | 1745.5 | 1766.4 | 1776.8 | 1778.6 | 1771.6 |
| 12.5° | 1682.8 | 1682.8 | 1684.6 | 1677.6 | 1681.1 | 1686.3 | 1700.2 | 1724.6 | 1749.0 | 1773.3 | 1787.3 |
| 15° | 1801.2 | 1804.7 | 1780.3 | 1745.5 | 1719.4 | 1691.5 | 1682.8 | 1698.5 | 1724.6 | 1762.9 | 1794.2 |
| 17.5° | 2203.2 | 2208.4 | 2182.3 | 2098.8 | 2018.7 | 1903.9 | 1801.2 | 1750.7 | 1722.9 | 1754.2 | 1796.0 |
| 20° | 2767.0 | 2747.9 | 2702.6 | 2613.9 | 2497.3 | 2319.8 | 2159.7 | 1997.8 | 1842.9 | 1796.0 | 1809.9 |
| 22.5° | 3165.6 | 3158.6 | 3122.1 | 3022.9 | 2921.9 | 2756.6 | 2553.0 | 2326.7 | 2102.3 | 1959.5 | 1884.7 |
| 25° | 3297.8 | 3292.6 | 3259.5 | 3200.4 | 3144.7 | 3019.4 | 2836.6 | 2608.7 | 2373.7 | 2175.3 | 1987.4 |
| 27.5° | 3397.0 | 3390.1 | 3337.8 | 3271.7 | 3214.3 | 3087.2 | 2920.2 | 2747.9 | 2532.1 | 2264.1 | 1975.2 |
| 30° | 3612.8 | 3593.7 | 3520.6 | 3402.2 | 3292.6 | 3116.8 | 2932.4 | 2718.3 | 2425.9 | 2131.8 | 1849.9 |
| 32.5° | 3703.3 | 3692.9 | 3630.2 | 3534.5 | 3414.4 | 3184.7 | 2904.5 | 2546.0 | 2161.4 | 1907.3 | 1702.0 |
| 35° | 3684.2 | 3668.5 | 3604.1 | 3494.5 | 3348.3 | 3127.3 | 2753.1 | 2260.6 | 1947.4 | 1769.9 | 1538.4 |
| 37.5° | 3626.7 | 3604.1 | 3527.5 | 3398.8 | 3221.2 | 2932.4 | 2443.3 | 2029.2 | 1827.3 | 1627.2 | 1315.6 |
| 40° | 3487.5 | 3451.0 | 3362.2 | 3228.2 | 3050.7 | 2671.3 | 2161.4 | 1889.9 | 1702.0 | 1425.3 | 1066.8 |
| 42.5° | 2955.0 | 2935.8 | 2979.3 | 2956.7 | 2800.1 | 2352.8 | 1961.3 | 1762.9 | 1503.6 | 1152.1 | 772.7 |
| 45° | 1945.6 | 1978.7 | 2057.0 | 2191.0 | 2222.3 | 2023.9 | 1797.7 | 1554.1 | 1237.3 | 852.7 | 445.5 |
| 47.5° | 1801.2 | 1794.2 | 1813.4 | 1839.5 | 1844.7 | 1761.2 | 1555.8 | 1284.3 | 918.9 | 487.3 | 123.6 |
| 50° | 1782.0 | 1771.6 | 1755.9 | 1724.6 | 1658.5 | 1496.6 | 1263.4 | 936.3 | 530.8 | 134.0 | 8.7 |
| 52.5° | 1407.9 | 1397.4 | 1397.4 | 1352.2 | 1266.9 | 1110.3 | 871.9 | 515.1 | 147.9 | 8.7 | 7.0 |
| 55° | 469.9 | 501.2 | 496.0 | 494.2 | 532.5 | 490.8 | 375.9 | 132.3 | 12.2 | 7.0 | 7.0 |
| 57.5° | 8.7 | 8.7 | 8.7 | 15.7 | 24.4 | 34.8 | 20.9 | 10.4 | 7.0 | 7.0 | 7.0 |
| 60° | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 |
| 62.5° | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 |
| 65° | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 7.0 |
| 67.5° | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| 70° | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| 72.5° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 5.2 | 5.2 | 5.2 |
| 75° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 5.2 |
| 77.5° | 1.7 | 1.7 | 1.7 | 1.7 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 80° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 3.5 | 3.5 | 3.5 | 3.5 |
| 82.5° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 3.5 | 3.5 | 3.5 |
| 85° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 3.5 | 3.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 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):

| | 55° | 60° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1270.4 | 1270.4 | 1270.4 | 1270.4 | 1270.4 | 1270.4 | 1270.4 | 1270.4 |
| 2.5° | 1470.5 | 1446.2 | 1399.2 | 1265.2 | 1117.3 | 948.4 | 833.6 | 819.7 |
| 5° | 1602.8 | 1566.2 | 1489.7 | 1216.5 | 878.8 | 584.7 | 435.1 | 379.4 |
| 7.5° | 1689.8 | 1641.1 | 1547.1 | 1136.4 | 640.4 | 308.0 | 165.3 | 132.3 |
| 10° | 1742.0 | 1696.8 | 1576.7 | 1016.3 | 407.2 | 121.8 | 55.7 | 52.2 |
| 12.5° | 1769.9 | 1726.4 | 1587.1 | 871.9 | 229.7 | 55.7 | 43.5 | 43.5 |
| 15° | 1789.0 | 1742.0 | 1571.5 | 704.8 | 114.9 | 41.8 | 40.0 | 40.0 |
| 17.5° | 1797.7 | 1740.3 | 1526.2 | 530.8 | 60.9 | 38.3 | 38.3 | 38.3 |
| 20° | 1802.9 | 1721.1 | 1442.7 | 362.0 | 41.8 | 34.8 | 36.5 | 36.5 |
| 22.5° | 1808.1 | 1674.1 | 1333.0 | 229.7 | 33.1 | 33.1 | 34.8 | 34.8 |
| 25° | 1797.7 | 1592.4 | 1178.2 | 139.2 | 29.6 | 31.3 | 33.1 | 34.8 |
| 27.5° | 1722.9 | 1468.8 | 990.2 | 85.3 | 26.1 | 29.6 | 33.1 | 34.8 |
| 30° | 1594.1 | 1287.8 | 772.7 | 53.9 | 24.4 | 29.6 | 33.1 | 34.8 |
| 32.5° | 1427.0 | 1080.7 | 551.7 | 33.1 | 24.4 | 29.6 | 33.1 | 34.8 |
| 35° | 1202.5 | 826.6 | 358.5 | 22.6 | 24.4 | 29.6 | 34.8 | 36.5 |
| 37.5° | 950.2 | 577.8 | 193.2 | 17.4 | 24.4 | 29.6 | 34.8 | 36.5 |
| 40° | 683.9 | 346.3 | 69.6 | 15.7 | 22.6 | 31.3 | 36.5 | 38.3 |
| 42.5° | 400.3 | 128.8 | 12.2 | 13.9 | 22.6 | 31.3 | 36.5 | 38.3 |
| 45° | 114.9 | 13.9 | 7.0 | 13.9 | 22.6 | 31.3 | 38.3 | 40.0 |
| 47.5° | 8.7 | 5.2 | 7.0 | 13.9 | 22.6 | 31.3 | 38.3 | 41.8 |
| 50° | 5.2 | 5.2 | 5.2 | 13.9 | 22.6 | 33.1 | 40.0 | 41.8 |
| 52.5° | 7.0 | 7.0 | 7.0 | 13.9 | 22.6 | 33.1 | 40.0 | 41.8 |
| 55° | 7.0 | 7.0 | 7.0 | 13.9 | 22.6 | 33.1 | 40.0 | 41.8 |
| 57.5° | 7.0 | 7.0 | 7.0 | 13.9 | 22.6 | 31.3 | 40.0 | 41.8 |
| 60° | 7.0 | 7.0 | 7.0 | 12.2 | 20.9 | 31.3 | 38.3 | 40.0 |
| 62.5° | 7.0 | 7.0 | 7.0 | 12.2 | 20.9 | 29.6 | 38.3 | 38.3 |
| 65° | 7.0 | 7.0 | 7.0 | 10.4 | 19.1 | 27.8 | 34.8 | 36.5 |
| 67.5° | 7.0 | 7.0 | 7.0 | 10.4 | 17.4 | 26.1 | 33.1 | 34.8 |
| 70° | 5.2 | 7.0 | 7.0 | 8.7 | 15.7 | 24.4 | 31.3 | 33.1 |
| 72.5° | 5.2 | 5.2 | 7.0 | 8.7 | 13.9 | 20.9 | 27.8 | 29.6 |
| 75° | 5.2 | 5.2 | 5.2 | 7.0 | 12.2 | 19.1 | 24.4 | 26.1 |
| 77.5° | 5.2 | 5.2 | 5.2 | 7.0 | 10.4 | 15.7 | 22.6 | 22.6 |
| 80° | 3.5 | 5.2 | 5.2 | 5.2 | 8.7 | 12.2 | 17.4 | 19.1 |
| 82.5° | 3.5 | 3.5 | 3.5 | 5.2 | 7.0 | 10.4 | 13.9 | 13.9 |
| 85° | 3.5 | 3.5 | 3.5 | 3.5 | 5.2 | 7.0 | 8.7 | 8.7 |
| 87.5° | 1.7 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)