

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: P1312899

Luminaire Tested: LDSQA3D20R459050D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R459050D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

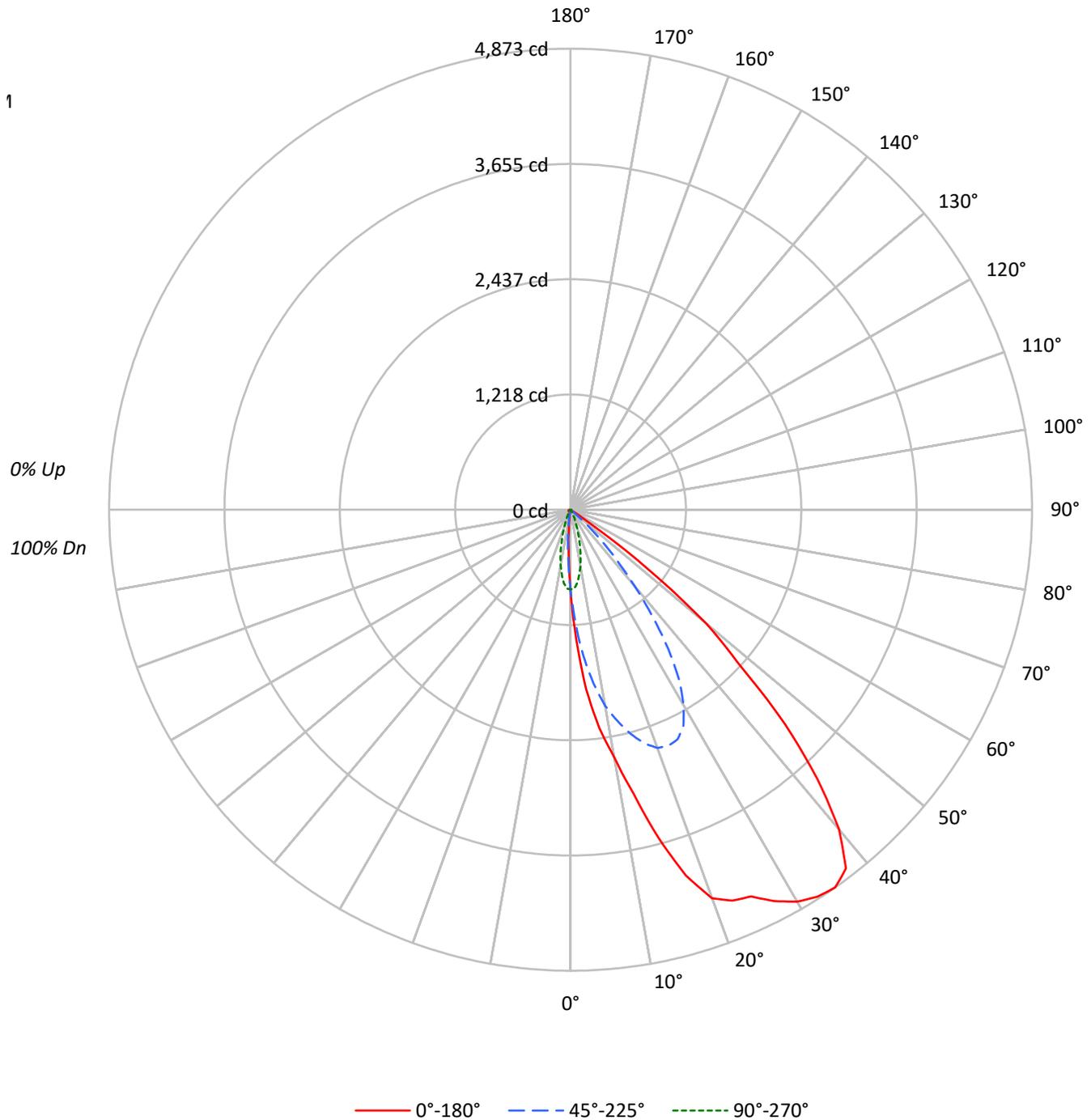
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2208.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
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: P1312899

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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 | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 97 | 96 | 96 | 94 | 93 | 96 | 94 | 93 | 91 |
| 2 | 105 | 100 | 95 | 91 | 103 | 98 | 93 | 90 | 95 | 91 | 88 | 91 | 88 | 86 | 89 | 86 | 84 | 89 | 86 | 84 | 82 |
| 3 | 99 | 91 | 85 | 80 | 96 | 89 | 84 | 80 | 87 | 82 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 82 | 79 | 76 | 74 |
| 4 | 92 | 83 | 76 | 71 | 90 | 82 | 76 | 71 | 80 | 74 | 70 | 77 | 73 | 69 | 76 | 72 | 68 | 76 | 72 | 68 | 67 |
| 5 | 86 | 76 | 69 | 64 | 84 | 75 | 68 | 64 | 73 | 67 | 63 | 71 | 66 | 62 | 70 | 65 | 62 | 70 | 65 | 62 | 60 |
| 6 | 81 | 70 | 63 | 57 | 79 | 69 | 62 | 57 | 67 | 61 | 57 | 66 | 60 | 56 | 64 | 60 | 56 | 64 | 60 | 56 | 54 |
| 7 | 75 | 64 | 57 | 52 | 74 | 63 | 57 | 52 | 62 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 60 | 55 | 51 | 49 |
| 8 | 71 | 59 | 52 | 47 | 69 | 59 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 46 | 55 | 50 | 46 | 45 |
| 9 | 66 | 55 | 48 | 43 | 65 | 54 | 47 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 51 | 46 | 42 | 51 | 46 | 42 | 41 |
| 10 | 62 | 51 | 44 | 39 | 61 | 50 | 44 | 39 | 49 | 43 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 48 | 43 | 39 | 37 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|---------|--------|--------|--------|--------|
| 0° | 144701 | 144701 | 144701 | 144701 | 144701 |
| 5° | 329770 | 267515 | 135348 | 54267 | 37031 |
| 10° | 464690 | 367492 | 104630 | 11944 | 5491 |
| 15° | 640375 | 437222 | 66844 | 3958 | 3299 |
| 20° | 800731 | 491068 | 34859 | 2712 | 2712 |
| 25° | 856887 | 508454 | 16133 | 2109 | 2451 |
| 30° | 951095 | 474811 | 7338 | 2207 | 2565 |
| 35° | 1024545 | 378525 | 2334 | 2334 | 3112 |
| 40° | 991369 | 234555 | 1237 | 2900 | 3732 |
| 45° | 778514 | 110649 | 1340 | 3605 | 4506 |
| 50° | 500200 | 12861 | 1983 | 4448 | 5948 |
| 55° | 75966 | 1111 | 2222 | 5555 | 7206 |
| 60° | 1274 | 1274 | 2549 | 6372 | 7647 |
| 65° | 1508 | 1508 | 3016 | 6765 | 9047 |
| 70° | 1863 | 1863 | 3726 | 7452 | 10222 |
| 75° | 1198 | 2462 | 4924 | 8584 | 11046 |
| 80° | 1785 | 3670 | 5455 | 9124 | 12794 |
| 85° | 0 | 3557 | 7311 | 10868 | 10868 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 778514 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 91.9 | 4.2 |
| 10°-20° | 332.4 | 15.1 |
| 20°-30° | 584.0 | 26.5 |
| 30°-40° | 663.2 | 30.0 |
| 40°-50° | 429.4 | 19.4 |
| 50°-60° | 84.3 | 3.8 |
| 60°-70° | 10.2 | 0.5 |
| 70°-80° | 8.5 | 0.4 |
| 80°-90° | 3.9 | 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° | 1008.4 | 45.7 |
| 0°-40° | 1671.6 | 75.7 |
| 0°-60° | 2185.4 | 99.0 |
| 0°-90° | 2208.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2208.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 840 | 840 | 840 | 840 | 840 | |
| 5° | 1908 | 1547 | 783 | 314 | 214 | 203 |
| 15° | 3592 | 2452 | 375 | 22 | 18 | 1035 |
| 25° | 4509 | 2676 | 85 | 11 | 13 | 2114 |
| 35° | 4873 | 1800 | 11 | 11 | 15 | 2996 |
| 45° | 3196 | 454 | 6 | 15 | 18 | 2409 |
| 55° | 253 | 4 | 7 | 18 | 24 | 483 |
| 65° | 4 | 4 | 7 | 17 | 22 | 4 |
| 75° | 2 | 4 | 7 | 13 | 17 | 2 |
| 85° | 0 | 2 | 4 | 6 | 6 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1312899

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 840.2 | 840.2 | 840.2 | 840.2 | 840.2 | 840.2 | 840.2 | 840.2 | 840.2 | 840.2 | 840.2 |
| 2.5° | 1364.6 | 1360.9 | 1366.5 | 1329.5 | 1327.7 | 1300.0 | 1292.6 | 1261.2 | 1218.7 | 1198.4 | 1150.4 |
| 5° | 1907.5 | 1889.0 | 1889.0 | 1844.7 | 1829.9 | 1798.6 | 1745.0 | 1678.5 | 1623.1 | 1547.4 | 1466.2 |
| 7.5° | 2326.7 | 2323.0 | 2323.0 | 2284.2 | 2247.3 | 2203.0 | 2130.9 | 2055.2 | 1966.6 | 1850.3 | 1732.1 |
| 10° | 2657.2 | 2662.8 | 2646.1 | 2611.0 | 2557.5 | 2509.5 | 2424.5 | 2332.2 | 2223.3 | 2101.4 | 1944.4 |
| 12.5° | 3074.5 | 3033.9 | 3021.0 | 2941.6 | 2873.3 | 2780.9 | 2679.4 | 2574.1 | 2439.3 | 2286.1 | 2108.8 |
| 15° | 3591.6 | 3539.9 | 3488.2 | 3382.9 | 3268.4 | 3126.2 | 2967.4 | 2812.3 | 2638.7 | 2452.2 | 2230.7 |
| 17.5° | 4053.2 | 4053.2 | 3984.9 | 3818.7 | 3671.0 | 3460.5 | 3246.3 | 3039.4 | 2834.5 | 2588.9 | 2311.9 |
| 20° | 4369.0 | 4352.4 | 4300.7 | 4178.8 | 4010.7 | 3772.5 | 3493.7 | 3203.8 | 2956.4 | 2679.4 | 2358.1 |
| 22.5° | 4472.4 | 4468.7 | 4470.5 | 4398.5 | 4263.7 | 4016.3 | 3674.7 | 3333.1 | 3022.8 | 2701.5 | 2335.9 |
| 25° | 4509.3 | 4516.7 | 4535.2 | 4507.5 | 4405.9 | 4158.5 | 3785.5 | 3394.0 | 3043.1 | 2675.7 | 2251.0 |
| 27.5° | 4662.6 | 4647.8 | 4668.1 | 4649.7 | 4535.2 | 4239.7 | 3807.6 | 3379.2 | 2998.8 | 2581.5 | 2099.5 |
| 30° | 4782.6 | 4778.9 | 4814.0 | 4797.4 | 4647.8 | 4291.4 | 3787.3 | 3323.8 | 2889.9 | 2387.6 | 1861.3 |
| 32.5° | 4850.9 | 4852.8 | 4862.0 | 4793.7 | 4572.1 | 4178.8 | 3687.6 | 3211.2 | 2684.9 | 2134.6 | 1551.1 |
| 35° | 4873.1 | 4862.0 | 4810.3 | 4642.3 | 4339.4 | 3918.4 | 3442.0 | 2943.4 | 2406.1 | 1800.4 | 1226.1 |
| 37.5° | 4777.1 | 4719.8 | 4586.9 | 4335.7 | 3984.9 | 3591.6 | 3128.1 | 2605.5 | 2023.8 | 1421.9 | 914.1 |
| 40° | 4409.6 | 4333.9 | 4165.9 | 3909.2 | 3582.3 | 3201.9 | 2727.4 | 2180.8 | 1569.6 | 1043.3 | 642.6 |
| 42.5° | 3859.3 | 3820.5 | 3645.1 | 3421.7 | 3144.7 | 2760.6 | 2271.3 | 1717.3 | 1161.5 | 720.2 | 409.9 |
| 45° | 3196.4 | 3146.6 | 3035.8 | 2838.2 | 2620.3 | 2217.7 | 1761.6 | 1229.8 | 792.2 | 454.3 | 203.1 |
| 47.5° | 2396.8 | 2400.5 | 2324.8 | 2175.3 | 1961.1 | 1625.0 | 1205.8 | 825.4 | 496.7 | 234.5 | 46.2 |
| 50° | 1866.9 | 1841.0 | 1733.9 | 1580.7 | 1331.4 | 1082.1 | 779.3 | 520.7 | 262.2 | 48.0 | 3.7 |
| 52.5° | 1034.1 | 1050.7 | 993.5 | 943.6 | 814.3 | 646.3 | 459.8 | 264.1 | 55.4 | 5.5 | 3.7 |
| 55° | 253.0 | 267.8 | 256.7 | 262.2 | 271.4 | 241.9 | 186.5 | 51.7 | 5.5 | 3.7 | 3.7 |
| 57.5° | 5.5 | 5.5 | 5.5 | 5.5 | 9.2 | 12.9 | 12.9 | 3.7 | 3.7 | 3.7 | 3.7 |
| 60° | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| 62.5° | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| 65° | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| 67.5° | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| 70° | 3.7 | 3.7 | 3.7 | 1.8 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| 72.5° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 3.7 | 3.7 | 3.7 |
| 75° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 3.7 | 3.7 | 3.7 |
| 77.5° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 3.7 | 3.7 |
| 80° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 3.7 | 3.7 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 3.7 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 1.8 | 1.8 |
| 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° | 840.2 | 840.2 | 840.2 | 840.2 | 840.2 | 840.2 | 840.2 | 840.2 |
| 2.5° | 1126.4 | 1091.3 | 1026.7 | 834.6 | 670.3 | 541.0 | 463.5 | 456.1 |
| 5° | 1394.2 | 1300.0 | 1163.3 | 782.9 | 494.9 | 313.9 | 227.1 | 214.2 |
| 7.5° | 1606.5 | 1473.6 | 1263.1 | 698.0 | 337.9 | 160.7 | 88.6 | 73.9 |
| 10° | 1781.9 | 1593.6 | 1314.8 | 598.3 | 212.4 | 68.3 | 36.9 | 31.4 |
| 12.5° | 1902.0 | 1674.8 | 1324.0 | 487.5 | 121.9 | 33.2 | 24.0 | 22.2 |
| 15° | 1979.5 | 1700.7 | 1279.7 | 374.9 | 68.3 | 22.2 | 20.3 | 18.5 |
| 17.5° | 2010.9 | 1678.5 | 1194.7 | 271.4 | 36.9 | 16.6 | 16.6 | 16.6 |
| 20° | 1996.1 | 1606.5 | 1069.2 | 190.2 | 24.0 | 14.8 | 14.8 | 14.8 |
| 22.5° | 1926.0 | 1482.8 | 912.2 | 127.4 | 16.6 | 12.9 | 12.9 | 12.9 |
| 25° | 1787.5 | 1314.8 | 746.0 | 84.9 | 11.1 | 11.1 | 12.9 | 12.9 |
| 27.5° | 1580.7 | 1107.9 | 570.6 | 57.2 | 9.2 | 11.1 | 12.9 | 12.9 |
| 30° | 1320.3 | 877.1 | 409.9 | 36.9 | 9.2 | 11.1 | 11.1 | 12.9 |
| 32.5° | 1048.9 | 638.9 | 269.6 | 22.2 | 7.4 | 11.1 | 12.9 | 14.8 |
| 35° | 760.8 | 435.8 | 171.7 | 11.1 | 9.2 | 11.1 | 12.9 | 14.8 |
| 37.5° | 533.7 | 284.4 | 99.7 | 7.4 | 9.2 | 11.1 | 14.8 | 14.8 |
| 40° | 347.2 | 158.8 | 36.9 | 5.5 | 9.2 | 12.9 | 14.8 | 16.6 |
| 42.5° | 181.0 | 55.4 | 7.4 | 5.5 | 9.2 | 12.9 | 16.6 | 18.5 |
| 45° | 46.2 | 7.4 | 1.8 | 5.5 | 11.1 | 14.8 | 18.5 | 18.5 |
| 47.5° | 5.5 | 1.8 | 1.8 | 7.4 | 11.1 | 16.6 | 18.5 | 20.3 |
| 50° | 1.8 | 3.7 | 3.7 | 7.4 | 11.1 | 16.6 | 20.3 | 22.2 |
| 52.5° | 3.7 | 3.7 | 3.7 | 7.4 | 12.9 | 16.6 | 22.2 | 24.0 |
| 55° | 3.7 | 3.7 | 3.7 | 7.4 | 12.9 | 18.5 | 22.2 | 24.0 |
| 57.5° | 3.7 | 3.7 | 3.7 | 7.4 | 12.9 | 18.5 | 22.2 | 22.2 |
| 60° | 3.7 | 3.7 | 3.7 | 7.4 | 12.9 | 18.5 | 22.2 | 22.2 |
| 62.5° | 3.7 | 3.7 | 5.5 | 7.4 | 12.9 | 16.6 | 22.2 | 22.2 |
| 65° | 3.7 | 5.5 | 5.5 | 7.4 | 12.9 | 16.6 | 20.3 | 22.2 |
| 67.5° | 3.7 | 3.7 | 5.5 | 7.4 | 12.9 | 16.6 | 20.3 | 22.2 |
| 70° | 3.7 | 3.7 | 5.5 | 7.4 | 11.1 | 14.8 | 18.5 | 20.3 |
| 72.5° | 3.7 | 3.7 | 5.5 | 7.4 | 11.1 | 14.8 | 16.6 | 18.5 |
| 75° | 3.7 | 3.7 | 5.5 | 7.4 | 9.2 | 12.9 | 16.6 | 16.6 |
| 77.5° | 3.7 | 3.7 | 5.5 | 5.5 | 9.2 | 11.1 | 14.8 | 14.8 |
| 80° | 3.7 | 3.7 | 5.5 | 5.5 | 7.4 | 9.2 | 11.1 | 12.9 |
| 82.5° | 3.7 | 3.7 | 3.7 | 5.5 | 5.5 | 7.4 | 9.2 | 9.2 |
| 85° | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 5.5 | 5.5 | 5.5 |
| 87.5° | 1.8 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 1.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)