

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: P1313045

Luminaire Tested: LDSQA3D24R459050D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313045
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: LDSQA3D24R459050D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

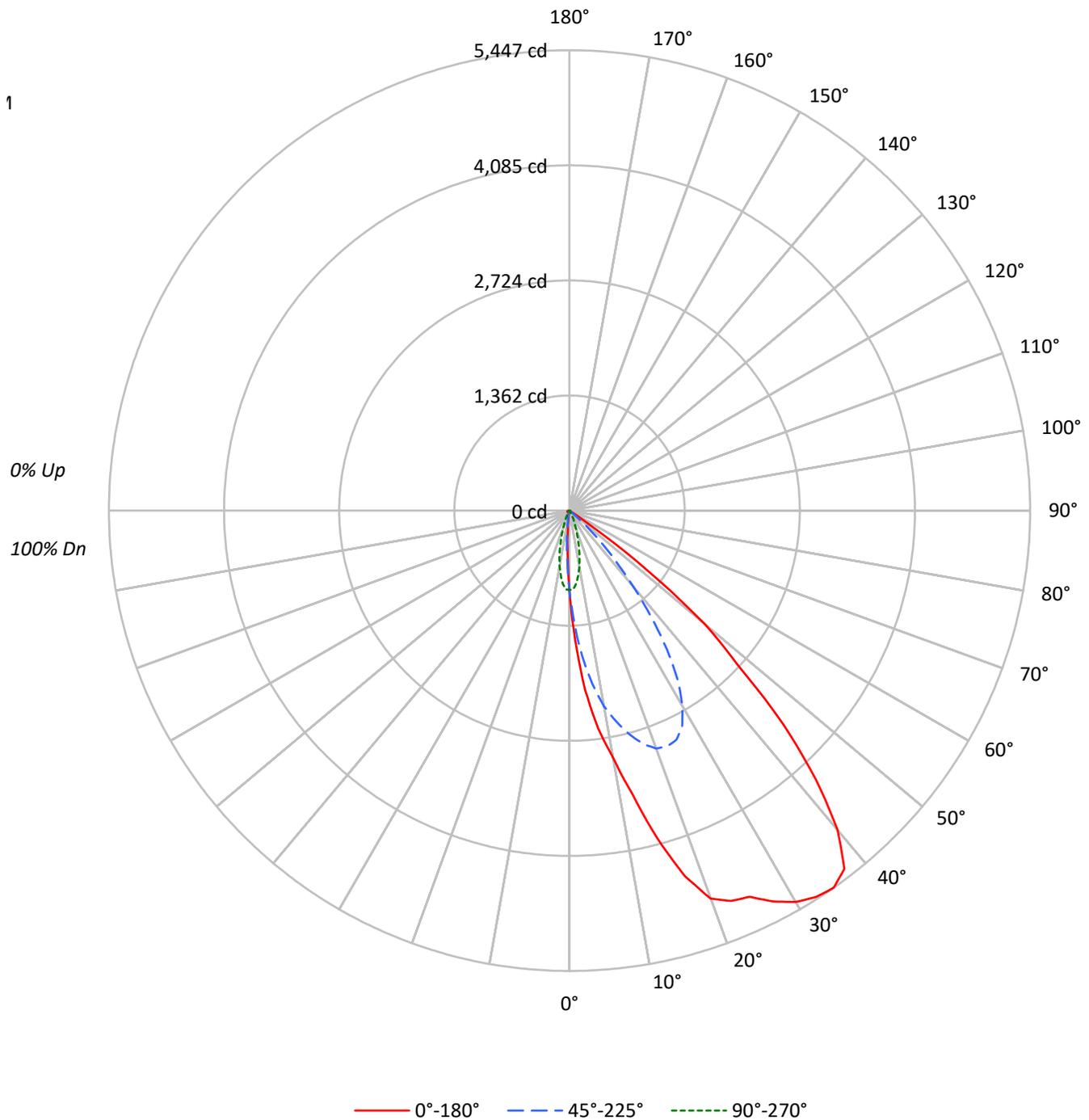
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2468.0 lumens
Efficiency: N/A
Efficacy: 85.7 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 (Ain): 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: P1313045

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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 | 100 | | |
| 1 | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 97 | 96 | 96 | 94 | 93 | 91 | | |
| 2 | 105 | 100 | 95 | 91 | 103 | 98 | 93 | 90 | 95 | 91 | 88 | 91 | 88 | 86 | 89 | 86 | 84 | 82 | | |
| 3 | 99 | 91 | 85 | 80 | 96 | 89 | 84 | 80 | 87 | 82 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 74 | | |
| 4 | 92 | 83 | 76 | 71 | 90 | 82 | 76 | 71 | 80 | 74 | 70 | 77 | 73 | 69 | 76 | 72 | 68 | 67 | | |
| 5 | 86 | 76 | 69 | 64 | 84 | 75 | 68 | 64 | 73 | 67 | 63 | 71 | 66 | 62 | 70 | 65 | 62 | 60 | | |
| 6 | 81 | 70 | 63 | 57 | 79 | 69 | 62 | 57 | 67 | 61 | 57 | 66 | 60 | 56 | 64 | 60 | 56 | 54 | | |
| 7 | 75 | 64 | 57 | 52 | 74 | 63 | 57 | 52 | 62 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 49 | | |
| 8 | 71 | 59 | 52 | 47 | 69 | 59 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 46 | 45 | | |
| 9 | 66 | 55 | 48 | 43 | 65 | 54 | 47 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 51 | 46 | 42 | 41 | | |
| 10 | 62 | 51 | 44 | 39 | 61 | 50 | 44 | 39 | 49 | 43 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 37 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|---------|--------|--------|--------|--------|
| 0° | 161734 | 161734 | 161734 | 161734 | 161734 |
| 5° | 368599 | 299014 | 151288 | 60664 | 41388 |
| 10° | 519409 | 410757 | 116942 | 13361 | 6138 |
| 15° | 715777 | 488715 | 74707 | 4422 | 3673 |
| 20° | 895008 | 548892 | 38964 | 3024 | 3024 |
| 25° | 957791 | 568313 | 18034 | 2356 | 2736 |
| 30° | 1063096 | 530732 | 8213 | 2466 | 2864 |
| 35° | 1145184 | 423097 | 2607 | 2607 | 3469 |
| 40° | 1108096 | 262186 | 1394 | 3237 | 4182 |
| 45° | 870190 | 123655 | 1510 | 4019 | 5017 |
| 50° | 559091 | 14388 | 2224 | 4984 | 6645 |
| 55° | 84914 | 1231 | 2492 | 6185 | 8047 |
| 60° | 1412 | 1412 | 2859 | 7096 | 8542 |
| 65° | 1671 | 1671 | 3382 | 7580 | 10106 |
| 70° | 2065 | 2065 | 4179 | 8308 | 11430 |
| 75° | 1397 | 2728 | 5523 | 9582 | 12377 |
| 80° | 2083 | 4066 | 6149 | 10215 | 14282 |
| 85° | 0 | 4150 | 8102 | 12251 | 12251 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 870190 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 102.8 | 4.2 |
| 10°-20° | 371.6 | 15.1 |
| 20°-30° | 652.8 | 26.5 |
| 30°-40° | 741.3 | 30.0 |
| 40°-50° | 480.0 | 19.4 |
| 50°-60° | 94.2 | 3.8 |
| 60°-70° | 11.4 | 0.5 |
| 70°-80° | 9.5 | 0.4 |
| 80°-90° | 4.3 | 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° | 1127.2 | 45.7 |
| 0°-40° | 1868.5 | 75.7 |
| 0°-60° | 2442.7 | 99.0 |
| 0°-90° | 2468.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2468.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 939 | 939 | 939 | 939 | 939 | |
| 5° | 2132 | 1730 | 875 | 351 | 239 | 227 |
| 15° | 4014 | 2741 | 419 | 25 | 21 | 1157 |
| 25° | 5040 | 2991 | 95 | 12 | 14 | 2363 |
| 35° | 5447 | 2012 | 12 | 12 | 16 | 3349 |
| 45° | 3573 | 508 | 6 | 16 | 21 | 2693 |
| 55° | 283 | 4 | 8 | 21 | 27 | 540 |
| 65° | 4 | 4 | 8 | 19 | 25 | 4 |
| 75° | 2 | 4 | 8 | 14 | 19 | 2 |
| 85° | 0 | 2 | 4 | 6 | 6 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1313045
 CATALOG NUMBER: LDSQA3D24R459050D010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 939.1 | 939.1 | 939.1 | 939.1 | 939.1 | 939.1 | 939.1 | 939.1 | 939.1 | 939.1 | 939.1 |
| 2.5° | 1525.3 | 1521.2 | 1527.4 | 1486.1 | 1484.0 | 1453.1 | 1444.8 | 1409.7 | 1362.2 | 1339.5 | 1285.9 |
| 5° | 2132.1 | 2111.5 | 2111.5 | 2061.9 | 2045.4 | 2010.3 | 1950.5 | 1876.2 | 1814.3 | 1729.6 | 1638.8 |
| 7.5° | 2600.6 | 2596.5 | 2596.5 | 2553.2 | 2511.9 | 2462.4 | 2381.9 | 2297.2 | 2198.2 | 2068.1 | 1936.0 |
| 10° | 2970.1 | 2976.3 | 2957.7 | 2918.5 | 2858.7 | 2805.0 | 2710.0 | 2606.8 | 2485.1 | 2348.8 | 2173.4 |
| 12.5° | 3436.6 | 3391.2 | 3376.7 | 3288.0 | 3211.6 | 3108.4 | 2994.9 | 2877.2 | 2726.6 | 2555.2 | 2357.1 |
| 15° | 4014.5 | 3956.7 | 3898.9 | 3781.3 | 3653.3 | 3494.4 | 3316.9 | 3143.5 | 2949.5 | 2741.0 | 2493.3 |
| 17.5° | 4530.5 | 4530.5 | 4454.1 | 4268.4 | 4103.2 | 3867.9 | 3628.5 | 3397.4 | 3168.3 | 2893.7 | 2584.1 |
| 20° | 4883.4 | 4864.9 | 4807.1 | 4670.8 | 4483.0 | 4216.8 | 3905.1 | 3581.1 | 3304.5 | 2994.9 | 2635.7 |
| 22.5° | 4999.0 | 4994.9 | 4997.0 | 4916.5 | 4765.8 | 4489.2 | 4107.4 | 3725.5 | 3378.8 | 3019.6 | 2611.0 |
| 25° | 5040.3 | 5048.6 | 5069.2 | 5038.2 | 4924.7 | 4648.1 | 4231.2 | 3793.6 | 3401.5 | 2990.7 | 2516.0 |
| 27.5° | 5211.6 | 5195.1 | 5217.8 | 5197.2 | 5069.2 | 4739.0 | 4256.0 | 3777.1 | 3351.9 | 2885.5 | 2346.8 |
| 30° | 5345.8 | 5341.7 | 5380.9 | 5362.3 | 5195.1 | 4796.8 | 4233.3 | 3715.2 | 3230.2 | 2668.8 | 2080.5 |
| 32.5° | 5422.1 | 5424.2 | 5434.5 | 5358.2 | 5110.5 | 4670.8 | 4121.8 | 3589.3 | 3001.1 | 2386.0 | 1733.8 |
| 35° | 5446.9 | 5434.5 | 5376.7 | 5188.9 | 4850.4 | 4379.8 | 3847.3 | 3290.0 | 2689.4 | 2012.4 | 1370.5 |
| 37.5° | 5339.6 | 5275.6 | 5127.0 | 4846.3 | 4454.1 | 4014.5 | 3496.4 | 2912.3 | 2262.2 | 1589.3 | 1021.7 |
| 40° | 4928.8 | 4844.2 | 4656.4 | 4369.5 | 4004.2 | 3579.0 | 3048.5 | 2437.6 | 1754.4 | 1166.2 | 718.3 |
| 42.5° | 4313.8 | 4270.4 | 4074.4 | 3824.6 | 3515.0 | 3085.7 | 2538.7 | 1919.5 | 1298.3 | 805.0 | 458.2 |
| 45° | 3572.8 | 3517.1 | 3393.2 | 3172.4 | 2928.8 | 2478.9 | 1969.1 | 1374.6 | 885.5 | 507.7 | 227.0 |
| 47.5° | 2679.1 | 2683.2 | 2598.6 | 2431.4 | 2192.0 | 1816.3 | 1347.8 | 922.6 | 555.2 | 262.1 | 51.6 |
| 50° | 2086.7 | 2057.8 | 1938.1 | 1766.8 | 1488.1 | 1209.5 | 871.0 | 582.1 | 293.1 | 53.7 | 4.1 |
| 52.5° | 1155.8 | 1174.4 | 1110.4 | 1054.7 | 910.2 | 722.4 | 513.9 | 295.2 | 61.9 | 6.2 | 4.1 |
| 55° | 282.8 | 299.3 | 286.9 | 293.1 | 303.4 | 270.4 | 208.5 | 57.8 | 6.2 | 4.1 | 4.1 |
| 57.5° | 6.2 | 6.2 | 6.2 | 6.2 | 10.3 | 14.4 | 14.4 | 4.1 | 4.1 | 4.1 | 4.1 |
| 60° | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| 62.5° | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| 65° | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| 67.5° | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| 70° | 4.1 | 4.1 | 4.1 | 2.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| 72.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 4.1 | 4.1 | 4.1 |
| 75° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 4.1 | 4.1 | 4.1 |
| 77.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 4.1 | 4.1 |
| 80° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 4.1 | 4.1 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 4.1 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 2.1 | 2.1 |
| 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° | 939.1 | 939.1 | 939.1 | 939.1 | 939.1 | 939.1 | 939.1 | 939.1 |
| 2.5° | 1259.0 | 1219.8 | 1147.6 | 932.9 | 749.2 | 604.8 | 518.1 | 509.8 |
| 5° | 1558.3 | 1453.1 | 1300.3 | 875.1 | 553.2 | 350.9 | 253.9 | 239.4 |
| 7.5° | 1795.7 | 1647.1 | 1411.8 | 780.2 | 377.7 | 179.6 | 99.1 | 82.6 |
| 10° | 1991.8 | 1781.2 | 1469.6 | 668.7 | 237.4 | 76.4 | 41.3 | 35.1 |
| 12.5° | 2125.9 | 1872.1 | 1479.9 | 544.9 | 136.2 | 37.2 | 26.8 | 24.8 |
| 15° | 2212.6 | 1901.0 | 1430.4 | 419.0 | 76.4 | 24.8 | 22.7 | 20.6 |
| 17.5° | 2247.7 | 1876.2 | 1335.4 | 303.4 | 41.3 | 18.6 | 18.6 | 18.6 |
| 20° | 2231.2 | 1795.7 | 1195.1 | 212.6 | 26.8 | 16.5 | 16.5 | 16.5 |
| 22.5° | 2152.8 | 1657.4 | 1019.6 | 142.4 | 18.6 | 14.4 | 14.4 | 14.4 |
| 25° | 1998.0 | 1469.6 | 833.9 | 94.9 | 12.4 | 12.4 | 14.4 | 14.4 |
| 27.5° | 1766.8 | 1238.4 | 637.8 | 64.0 | 10.3 | 12.4 | 14.4 | 14.4 |
| 30° | 1475.8 | 980.4 | 458.2 | 41.3 | 10.3 | 12.4 | 12.4 | 14.4 |
| 32.5° | 1172.4 | 714.1 | 301.3 | 24.8 | 8.3 | 12.4 | 14.4 | 16.5 |
| 35° | 850.4 | 487.1 | 192.0 | 12.4 | 10.3 | 12.4 | 14.4 | 16.5 |
| 37.5° | 596.5 | 317.9 | 111.5 | 8.3 | 10.3 | 12.4 | 16.5 | 16.5 |
| 40° | 388.0 | 177.5 | 41.3 | 6.2 | 10.3 | 14.4 | 16.5 | 18.6 |
| 42.5° | 202.3 | 61.9 | 8.3 | 6.2 | 10.3 | 14.4 | 18.6 | 20.6 |
| 45° | 51.6 | 8.3 | 2.1 | 6.2 | 12.4 | 16.5 | 20.6 | 20.6 |
| 47.5° | 6.2 | 2.1 | 2.1 | 8.3 | 12.4 | 18.6 | 20.6 | 22.7 |
| 50° | 2.1 | 4.1 | 4.1 | 8.3 | 12.4 | 18.6 | 22.7 | 24.8 |
| 52.5° | 4.1 | 4.1 | 4.1 | 8.3 | 14.4 | 18.6 | 24.8 | 26.8 |
| 55° | 4.1 | 4.1 | 4.1 | 8.3 | 14.4 | 20.6 | 24.8 | 26.8 |
| 57.5° | 4.1 | 4.1 | 4.1 | 8.3 | 14.4 | 20.6 | 24.8 | 24.8 |
| 60° | 4.1 | 4.1 | 4.1 | 8.3 | 14.4 | 20.6 | 24.8 | 24.8 |
| 62.5° | 4.1 | 4.1 | 6.2 | 8.3 | 14.4 | 18.6 | 24.8 | 24.8 |
| 65° | 4.1 | 6.2 | 6.2 | 8.3 | 14.4 | 18.6 | 22.7 | 24.8 |
| 67.5° | 4.1 | 4.1 | 6.2 | 8.3 | 14.4 | 18.6 | 22.7 | 24.8 |
| 70° | 4.1 | 4.1 | 6.2 | 8.3 | 12.4 | 16.5 | 20.6 | 22.7 |
| 72.5° | 4.1 | 4.1 | 6.2 | 8.3 | 12.4 | 16.5 | 18.6 | 20.6 |
| 75° | 4.1 | 4.1 | 6.2 | 8.3 | 10.3 | 14.4 | 18.6 | 18.6 |
| 77.5° | 4.1 | 4.1 | 6.2 | 6.2 | 10.3 | 12.4 | 16.5 | 16.5 |
| 80° | 4.1 | 4.1 | 6.2 | 6.2 | 8.3 | 10.3 | 12.4 | 14.4 |
| 82.5° | 4.1 | 4.1 | 4.1 | 6.2 | 6.2 | 8.3 | 10.3 | 10.3 |
| 85° | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 6.2 | 6.2 | 6.2 |
| 87.5° | 2.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 2.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)