

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: P1308468

Luminaire Tested: LDSQA3D20R459027D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308468
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: LDSQA3D20R459027D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

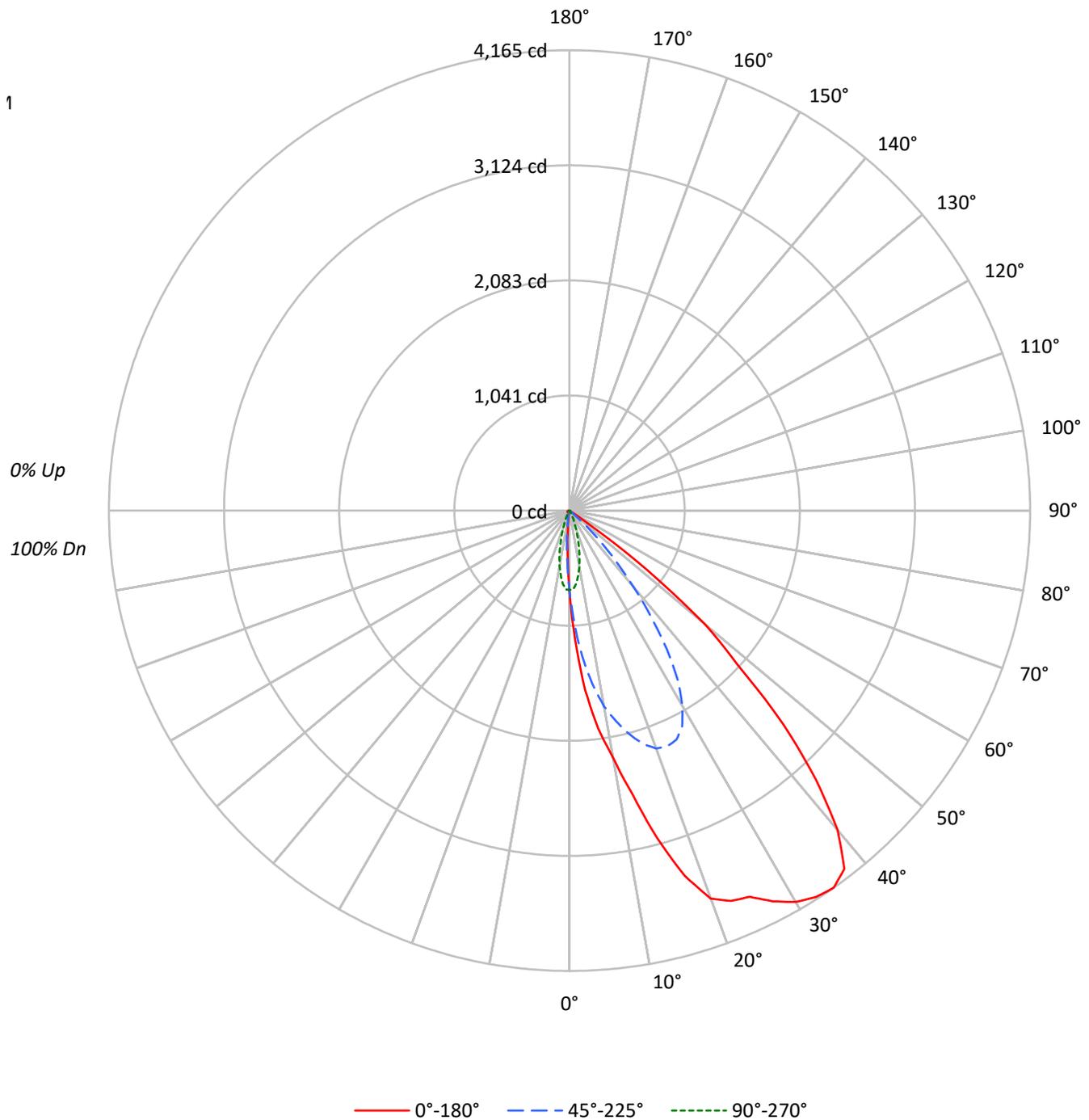
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1887.0 lumens
Efficiency: N/A
Efficacy: 65.5 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

TEST NUMBER: P1308468
CATALOG NUMBER: LDSQA3D20R459027D010 3LSQCA30R 1MW

Luminous Intensity Polar Plot





TEST NUMBER: P1308468

CATALOG NUMBER: LDSQA3D20R459027D010 3LSQCA30R 1MW

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° | 123656 | 123656 | 123656 | 123656 | 123656 |
| 5° | 281830 | 228634 | 115674 | 46384 | 31654 |
| 10° | 397134 | 314066 | 89416 | 10213 | 4687 |
| 15° | 547268 | 373659 | 57127 | 3370 | 2817 |
| 20° | 684314 | 419664 | 29782 | 2309 | 2309 |
| 25° | 732325 | 434534 | 13796 | 1805 | 2090 |
| 30° | 812823 | 405785 | 6284 | 1889 | 2188 |
| 35° | 875586 | 323504 | 1997 | 1997 | 2649 |
| 40° | 847237 | 200450 | 1057 | 2473 | 3192 |
| 45° | 665332 | 94550 | 1145 | 3069 | 3848 |
| 50° | 427484 | 10985 | 1688 | 3805 | 5064 |
| 55° | 64916 | 961 | 1892 | 4744 | 6155 |
| 60° | 1102 | 1102 | 2170 | 5442 | 6510 |
| 65° | 1304 | 1304 | 2567 | 5787 | 7702 |
| 70° | 1611 | 1611 | 3172 | 6345 | 8762 |
| 75° | 1065 | 2129 | 4192 | 7320 | 9449 |
| 80° | 1587 | 3174 | 4661 | 7835 | 10910 |
| 85° | 0 | 3162 | 6323 | 9287 | 9287 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 665332 cd/sqm



TEST NUMBER: P1308468

CATALOG NUMBER: LDSQA3D20R459027D010 3LSQCA30R 1MW

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 78.6 | 4.2 |
| 10°-20° | 284.1 | 15.1 |
| 20°-30° | 499.1 | 26.5 |
| 30°-40° | 566.8 | 30.0 |
| 40°-50° | 367.0 | 19.4 |
| 50°-60° | 72.0 | 3.8 |
| 60°-70° | 8.8 | 0.5 |
| 70°-80° | 7.3 | 0.4 |
| 80°-90° | 3.3 | 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° | 861.8 | 45.7 |
| 0°-40° | 1428.6 | 75.7 |
| 0°-60° | 1867.7 | 99.0 |
| 0°-90° | 1887.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1887.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 718 | 718 | 718 | 718 | 718 | |
| 5° | 1630 | 1322 | 669 | 268 | 183 | 174 |
| 15° | 3069 | 2096 | 320 | 19 | 16 | 884 |
| 25° | 3854 | 2287 | 73 | 10 | 11 | 1806 |
| 35° | 4165 | 1539 | 10 | 10 | 13 | 2560 |
| 45° | 2732 | 388 | 5 | 13 | 16 | 2059 |
| 55° | 216 | 3 | 6 | 16 | 20 | 413 |
| 65° | 3 | 3 | 6 | 14 | 19 | 3 |
| 75° | 2 | 3 | 6 | 11 | 14 | 2 |
| 85° | 0 | 2 | 3 | 5 | 5 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1308468
 CATALOG NUMBER: LDSQA3D20R459027D010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 718.0 | 718.0 | 718.0 | 718.0 | 718.0 | 718.0 | 718.0 | 718.0 | 718.0 | 718.0 | 718.0 |
| 2.5° | 1166.2 | 1163.1 | 1167.8 | 1136.2 | 1134.7 | 1111.0 | 1104.7 | 1077.9 | 1041.6 | 1024.2 | 983.2 |
| 5° | 1630.2 | 1614.4 | 1614.4 | 1576.5 | 1563.9 | 1537.1 | 1491.3 | 1434.5 | 1387.2 | 1322.5 | 1253.0 |
| 7.5° | 1988.4 | 1985.3 | 1985.3 | 1952.1 | 1920.6 | 1882.7 | 1821.1 | 1756.4 | 1680.7 | 1581.3 | 1480.3 |
| 10° | 2270.9 | 2275.6 | 2261.4 | 2231.5 | 2185.7 | 2144.7 | 2072.1 | 1993.2 | 1900.0 | 1795.9 | 1661.8 |
| 12.5° | 2627.6 | 2592.8 | 2581.8 | 2513.9 | 2455.5 | 2376.6 | 2289.8 | 2199.9 | 2084.7 | 1953.7 | 1802.2 |
| 15° | 3069.4 | 3025.2 | 2981.1 | 2891.1 | 2793.3 | 2671.7 | 2536.0 | 2403.5 | 2255.1 | 2095.7 | 1906.4 |
| 17.5° | 3464.0 | 3464.0 | 3405.6 | 3263.5 | 3137.3 | 2957.4 | 2774.3 | 2597.6 | 2422.4 | 2212.5 | 1975.8 |
| 20° | 3733.8 | 3719.6 | 3675.4 | 3571.3 | 3427.7 | 3224.1 | 2985.8 | 2738.0 | 2526.6 | 2289.8 | 2015.2 |
| 22.5° | 3822.2 | 3819.0 | 3820.6 | 3759.1 | 3643.9 | 3432.4 | 3140.4 | 2848.5 | 2583.4 | 2308.8 | 1996.3 |
| 25° | 3853.8 | 3860.1 | 3875.8 | 3852.2 | 3765.4 | 3553.9 | 3235.1 | 2900.6 | 2600.7 | 2286.7 | 1923.7 |
| 27.5° | 3984.7 | 3972.1 | 3989.5 | 3973.7 | 3875.8 | 3623.3 | 3254.1 | 2887.9 | 2562.9 | 2206.2 | 1794.3 |
| 30° | 4087.3 | 4084.2 | 4114.1 | 4099.9 | 3972.1 | 3667.5 | 3236.7 | 2840.6 | 2469.7 | 2040.5 | 1590.7 |
| 32.5° | 4145.7 | 4147.3 | 4155.2 | 4096.8 | 3907.4 | 3571.3 | 3151.5 | 2744.3 | 2294.6 | 1824.3 | 1325.6 |
| 35° | 4164.6 | 4155.2 | 4111.0 | 3967.4 | 3708.6 | 3348.8 | 2941.6 | 2515.5 | 2056.3 | 1538.7 | 1047.9 |
| 37.5° | 4082.6 | 4033.7 | 3920.0 | 3705.4 | 3405.6 | 3069.4 | 2673.3 | 2226.7 | 1729.6 | 1215.1 | 781.2 |
| 40° | 3768.5 | 3703.8 | 3560.2 | 3340.9 | 3061.5 | 2736.4 | 2330.9 | 1863.8 | 1341.4 | 891.6 | 549.2 |
| 42.5° | 3298.3 | 3265.1 | 3115.2 | 2924.2 | 2687.5 | 2359.3 | 1941.1 | 1467.6 | 992.6 | 615.5 | 350.3 |
| 45° | 2731.7 | 2689.1 | 2594.4 | 2425.6 | 2239.3 | 1895.3 | 1505.5 | 1051.0 | 677.0 | 388.2 | 173.6 |
| 47.5° | 2048.4 | 2051.5 | 1986.8 | 1859.0 | 1676.0 | 1388.7 | 1030.5 | 705.4 | 424.5 | 200.4 | 39.5 |
| 50° | 1595.5 | 1573.4 | 1481.8 | 1350.9 | 1137.8 | 924.8 | 666.0 | 445.0 | 224.1 | 41.0 | 3.2 |
| 52.5° | 883.7 | 897.9 | 849.0 | 806.4 | 695.9 | 552.3 | 393.0 | 225.7 | 47.3 | 4.7 | 3.2 |
| 55° | 216.2 | 228.8 | 219.4 | 224.1 | 232.0 | 206.7 | 159.4 | 44.2 | 4.7 | 3.2 | 3.2 |
| 57.5° | 4.7 | 4.7 | 4.7 | 4.7 | 7.9 | 11.0 | 11.0 | 3.2 | 3.2 | 3.2 | 3.2 |
| 60° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 62.5° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 65° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 67.5° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 70° | 3.2 | 3.2 | 3.2 | 1.6 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 72.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 3.2 | 3.2 | 3.2 |
| 75° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 3.2 | 3.2 | 3.2 |
| 77.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 3.2 | 3.2 |
| 80° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 3.2 | 3.2 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 3.2 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 | 1.6 | 1.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P1308468
 CATALOG NUMBER: LDSQA3D20R459027D010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|-------|--------|-------|--------|-------|
| 0° | 718.0 | 718.0 | 718.0 | 718.0 | 718.0 | 718.0 | 718.0 | 718.0 |
| 2.5° | 962.6 | 932.7 | 877.4 | 713.3 | 572.9 | 462.4 | 396.1 | 389.8 |
| 5° | 1191.5 | 1111.0 | 994.2 | 669.1 | 422.9 | 268.3 | 194.1 | 183.1 |
| 7.5° | 1373.0 | 1259.3 | 1079.4 | 596.5 | 288.8 | 137.3 | 75.7 | 63.1 |
| 10° | 1522.9 | 1361.9 | 1123.6 | 511.3 | 181.5 | 58.4 | 31.6 | 26.8 |
| 12.5° | 1625.5 | 1431.3 | 1131.5 | 416.6 | 104.2 | 28.4 | 20.5 | 18.9 |
| 15° | 1691.7 | 1453.4 | 1093.6 | 320.4 | 58.4 | 18.9 | 17.4 | 15.8 |
| 17.5° | 1718.6 | 1434.5 | 1021.0 | 232.0 | 31.6 | 14.2 | 14.2 | 14.2 |
| 20° | 1705.9 | 1373.0 | 913.7 | 162.5 | 20.5 | 12.6 | 12.6 | 12.6 |
| 22.5° | 1646.0 | 1267.2 | 779.6 | 108.9 | 14.2 | 11.0 | 11.0 | 11.0 |
| 25° | 1527.6 | 1123.6 | 637.6 | 72.6 | 9.5 | 9.5 | 11.0 | 11.0 |
| 27.5° | 1350.9 | 946.9 | 487.6 | 48.9 | 7.9 | 9.5 | 11.0 | 11.0 |
| 30° | 1128.4 | 749.6 | 350.3 | 31.6 | 7.9 | 9.5 | 9.5 | 11.0 |
| 32.5° | 896.4 | 546.0 | 230.4 | 18.9 | 6.3 | 9.5 | 11.0 | 12.6 |
| 35° | 650.2 | 372.4 | 146.8 | 9.5 | 7.9 | 9.5 | 11.0 | 12.6 |
| 37.5° | 456.1 | 243.0 | 85.2 | 6.3 | 7.9 | 9.5 | 12.6 | 12.6 |
| 40° | 296.7 | 135.7 | 31.6 | 4.7 | 7.9 | 11.0 | 12.6 | 14.2 |
| 42.5° | 154.7 | 47.3 | 6.3 | 4.7 | 7.9 | 11.0 | 14.2 | 15.8 |
| 45° | 39.5 | 6.3 | 1.6 | 4.7 | 9.5 | 12.6 | 15.8 | 15.8 |
| 47.5° | 4.7 | 1.6 | 1.6 | 6.3 | 9.5 | 14.2 | 15.8 | 17.4 |
| 50° | 1.6 | 3.2 | 3.2 | 6.3 | 9.5 | 14.2 | 17.4 | 18.9 |
| 52.5° | 3.2 | 3.2 | 3.2 | 6.3 | 11.0 | 14.2 | 18.9 | 20.5 |
| 55° | 3.2 | 3.2 | 3.2 | 6.3 | 11.0 | 15.8 | 18.9 | 20.5 |
| 57.5° | 3.2 | 3.2 | 3.2 | 6.3 | 11.0 | 15.8 | 18.9 | 18.9 |
| 60° | 3.2 | 3.2 | 3.2 | 6.3 | 11.0 | 15.8 | 18.9 | 18.9 |
| 62.5° | 3.2 | 3.2 | 4.7 | 6.3 | 11.0 | 14.2 | 18.9 | 18.9 |
| 65° | 3.2 | 4.7 | 4.7 | 6.3 | 11.0 | 14.2 | 17.4 | 18.9 |
| 67.5° | 3.2 | 3.2 | 4.7 | 6.3 | 11.0 | 14.2 | 17.4 | 18.9 |
| 70° | 3.2 | 3.2 | 4.7 | 6.3 | 9.5 | 12.6 | 15.8 | 17.4 |
| 72.5° | 3.2 | 3.2 | 4.7 | 6.3 | 9.5 | 12.6 | 14.2 | 15.8 |
| 75° | 3.2 | 3.2 | 4.7 | 6.3 | 7.9 | 11.0 | 14.2 | 14.2 |
| 77.5° | 3.2 | 3.2 | 4.7 | 4.7 | 7.9 | 9.5 | 12.6 | 12.6 |
| 80° | 3.2 | 3.2 | 4.7 | 4.7 | 6.3 | 7.9 | 9.5 | 11.0 |
| 82.5° | 3.2 | 3.2 | 3.2 | 4.7 | 4.7 | 6.3 | 7.9 | 7.9 |
| 85° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 4.7 | 4.7 | 4.7 |
| 87.5° | 1.6 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 1.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)