

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: P1311447

Luminaire Tested: LDSQA3D13R209040DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-74)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R209040DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

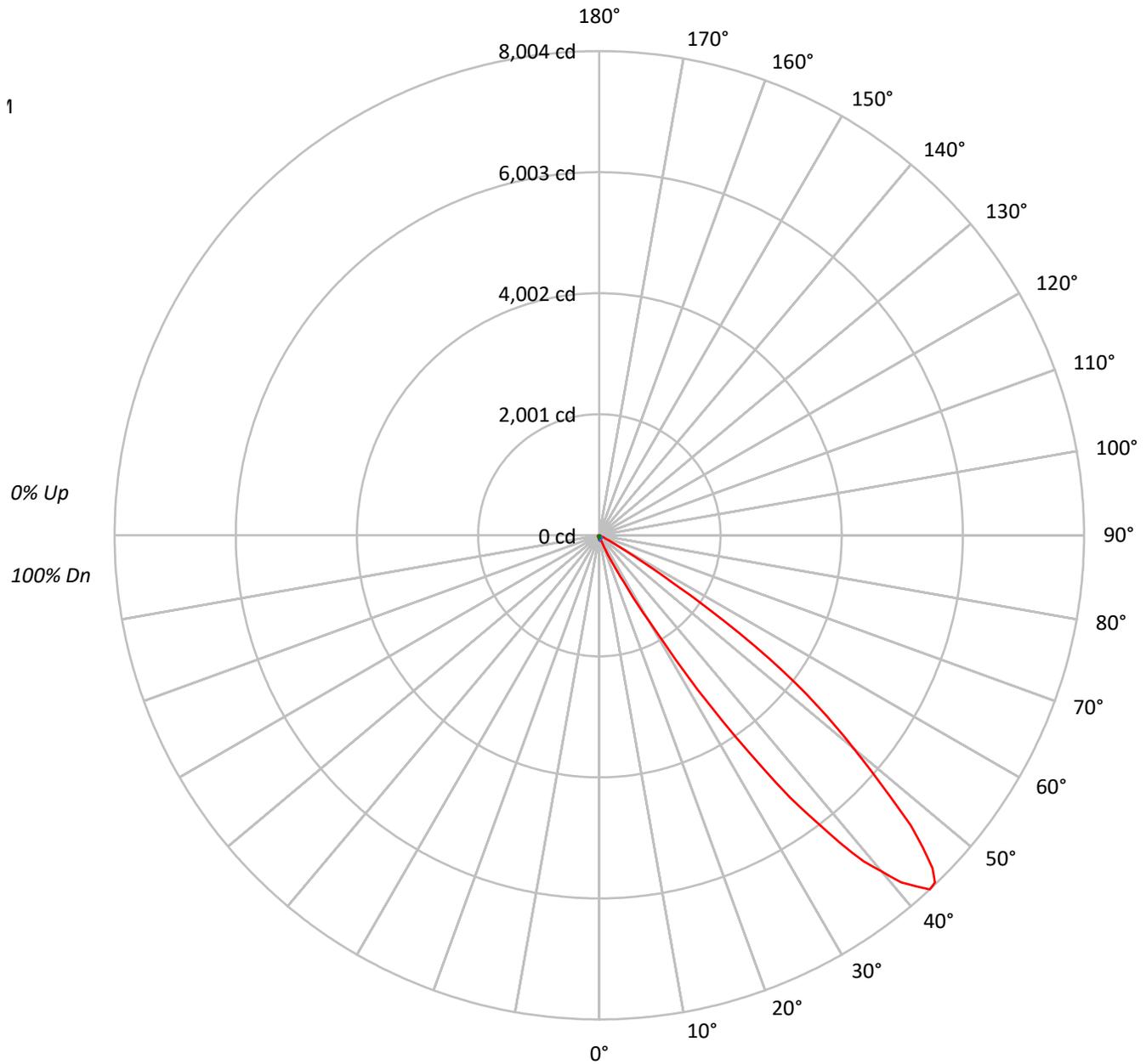
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1112.0 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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: P1311447
CATALOG NUMBER: LDSQA3D13R209040DE010 3LSQCA45R 1MW

Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° ····· 90°-270°



TEST NUMBER: P1311447

CATALOG NUMBER: LDSQA3D13R209040DE010 3LSQCA45R 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 | 100 | 100 | 100 | 100 |
| 1 | 110 | 106 | 102 | 99 | 108 | 104 | 101 | 97 | 100 | 97 | 94 | 96 | 94 | 92 | 92 | 91 | 89 | 87 | 87 | 87 | 87 |
| 2 | 101 | 93 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 77 | 82 | 78 | 75 | 73 | 73 | 73 | 73 |
| 3 | 92 | 81 | 74 | 67 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 65 | 72 | 67 | 63 | 61 | 61 | 61 | 61 |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 | 51 | 51 | 51 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 53 | 46 | 59 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 42 | 42 | 42 | 42 |
| 6 | 68 | 55 | 45 | 39 | 66 | 54 | 45 | 38 | 52 | 44 | 38 | 50 | 43 | 38 | 48 | 42 | 37 | 35 | 35 | 35 | 35 |
| 7 | 62 | 48 | 39 | 32 | 60 | 47 | 38 | 32 | 46 | 38 | 32 | 44 | 37 | 32 | 43 | 36 | 31 | 29 | 29 | 29 | 29 |
| 8 | 57 | 42 | 33 | 27 | 55 | 42 | 33 | 27 | 40 | 33 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 25 | 25 | 25 | 25 |
| 9 | 52 | 38 | 29 | 23 | 51 | 37 | 29 | 23 | 36 | 28 | 23 | 35 | 28 | 23 | 34 | 27 | 23 | 21 | 21 | 21 | 21 |
| 10 | 48 | 34 | 25 | 20 | 47 | 33 | 25 | 20 | 32 | 25 | 19 | 31 | 24 | 19 | 30 | 24 | 19 | 17 | 17 | 17 | 17 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|---------|-------|-------|-------|-------|
| 0° | 13313 | 13313 | 13313 | 13313 | 13313 |
| 5° | 15542 | 14453 | 12465 | 10840 | 10477 |
| 10° | 15354 | 13151 | 9863 | 8412 | 8219 |
| 15° | 13408 | 10056 | 7275 | 6704 | 7078 |
| 20° | 19922 | 8431 | 5370 | 5755 | 6323 |
| 25° | 85778 | 8741 | 4162 | 5169 | 6157 |
| 30° | 324409 | 10600 | 3540 | 4992 | 6026 |
| 35° | 983421 | 12741 | 3301 | 5046 | 6370 |
| 40° | 1630737 | 12680 | 2810 | 5396 | 6812 |
| 45° | 1895454 | 8646 | 2557 | 5602 | 7380 |
| 50° | 1471369 | 4769 | 2519 | 5868 | 8413 |
| 55° | 851600 | 3153 | 2522 | 6576 | 9098 |
| 60° | 143978 | 723 | 2170 | 6854 | 10092 |
| 65° | 11084 | 0 | 2567 | 7661 | 11492 |
| 70° | 1561 | 0 | 3172 | 8409 | 13143 |
| 75° | 1397 | 665 | 3460 | 9715 | 15305 |
| 80° | 992 | 992 | 5157 | 10414 | 17654 |
| 85° | 1976 | 1976 | 8299 | 10275 | 18575 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1895454 cd/sqm



TEST NUMBER: P1311447

CATALOG NUMBER: LDSQA3D13R209040DE010 3LSQCA45R 1MW

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 6.6 | 0.6 |
| 10°-20° | 13.9 | 1.3 |
| 20°-30° | 44.4 | 4.0 |
| 30°-40° | 283.6 | 25.5 |
| 40°-50° | 519.0 | 46.7 |
| 50°-60° | 213.3 | 19.2 |
| 60°-70° | 18.0 | 1.6 |
| 70°-80° | 8.9 | 0.8 |
| 80°-90° | 4.2 | 0.4 |
| 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° | 65.0 | 5.8 |
| 0°-40° | 348.5 | 31.3 |
| 0°-60° | 1080.8 | 97.2 |
| 0°-90° | 1112.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1112.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 77 | 77 | 77 | 77 | 77 | |
| 5° | 90 | 84 | 72 | 63 | 61 | 9 |
| 15° | 75 | 56 | 41 | 38 | 40 | 24 |
| 25° | 451 | 46 | 22 | 27 | 32 | 297 |
| 35° | 4678 | 61 | 16 | 24 | 30 | 2961 |
| 45° | 7782 | 36 | 10 | 23 | 30 | 5588 |
| 55° | 2836 | 10 | 8 | 22 | 30 | 2479 |
| 65° | 27 | 0 | 6 | 19 | 28 | 88 |
| 75° | 2 | 1 | 5 | 15 | 23 | 2 |
| 85° | 1 | 1 | 4 | 5 | 9 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1311447

CATALOG NUMBER: LDSQA3D13R209040DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|
| 0° | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 |
| 2.5° | 84.6 | 84.6 | 84.6 | 83.6 | 83.6 | 84.6 | 83.6 | 83.6 | 83.6 | 83.6 | 82.6 |
| 5° | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 88.8 | 88.8 | 87.8 | 83.6 |
| 7.5° | 92.0 | 92.0 | 92.0 | 92.0 | 90.9 | 90.9 | 90.9 | 90.9 | 89.9 | 88.8 | 81.5 |
| 10° | 87.8 | 87.8 | 87.8 | 86.7 | 86.7 | 86.7 | 85.7 | 85.7 | 84.6 | 83.6 | 75.2 |
| 12.5° | 79.4 | 79.4 | 79.4 | 79.4 | 78.4 | 78.4 | 77.3 | 77.3 | 76.3 | 75.2 | 65.8 |
| 15° | 75.2 | 75.2 | 75.2 | 74.2 | 74.2 | 73.2 | 72.1 | 71.1 | 70.0 | 67.9 | 56.4 |
| 17.5° | 81.5 | 81.5 | 80.5 | 80.5 | 78.4 | 76.3 | 75.2 | 72.1 | 70.0 | 66.9 | 50.2 |
| 20° | 108.7 | 109.7 | 105.5 | 102.4 | 100.3 | 94.1 | 90.9 | 85.7 | 81.5 | 76.3 | 46.0 |
| 22.5° | 219.5 | 215.3 | 208.0 | 196.5 | 182.9 | 171.4 | 150.5 | 133.8 | 122.3 | 106.6 | 44.9 |
| 25° | 451.4 | 447.3 | 427.4 | 410.7 | 368.9 | 336.5 | 291.6 | 255.0 | 217.4 | 180.8 | 46.0 |
| 27.5° | 858.0 | 829.7 | 824.5 | 748.2 | 689.7 | 606.1 | 519.4 | 446.2 | 379.3 | 305.1 | 49.1 |
| 30° | 1631.3 | 1598.9 | 1485.0 | 1370.0 | 1212.2 | 1033.5 | 863.2 | 704.3 | 571.6 | 451.4 | 53.3 |
| 31° | 2070.2 | 2101.5 | 1967.8 | 1736.8 | 1503.8 | 1274.9 | 1041.9 | 840.2 | 668.8 | 519.4 | 55.4 |
| 32° | 2721.2 | 2584.3 | 2443.3 | 2206.0 | 1867.4 | 1574.8 | 1282.2 | 991.7 | 766.0 | 592.5 | 57.5 |
| 33° | 3336.7 | 3256.3 | 3041.0 | 2745.3 | 2338.8 | 1928.1 | 1548.7 | 1170.4 | 885.1 | 681.4 | 58.5 |
| 34° | 3993.0 | 3904.2 | 3729.7 | 3305.4 | 2859.2 | 2321.0 | 1815.2 | 1376.3 | 1027.3 | 768.1 | 59.6 |
| 35° | 4677.5 | 4639.9 | 4303.4 | 3935.5 | 3386.9 | 2737.9 | 2136.0 | 1602.0 | 1166.2 | 847.5 | 60.6 |
| 36° | 5366.2 | 5245.0 | 4981.6 | 4444.5 | 3871.8 | 3123.6 | 2472.5 | 1812.1 | 1307.3 | 941.6 | 60.6 |
| 37° | 5884.5 | 5857.3 | 5508.3 | 4984.7 | 4311.7 | 3535.3 | 2763.0 | 2045.1 | 1449.4 | 1022.0 | 60.6 |
| 38° | 6456.1 | 6348.5 | 5994.2 | 5461.3 | 4725.6 | 3912.6 | 3067.1 | 2247.8 | 1584.2 | 1095.2 | 59.6 |
| 39° | 6937.9 | 6778.0 | 6420.6 | 5893.9 | 5087.2 | 4198.9 | 3308.5 | 2444.3 | 1703.4 | 1155.8 | 58.5 |
| 40° | 7253.5 | 7142.7 | 6769.6 | 6177.1 | 5415.3 | 4469.5 | 3553.1 | 2606.3 | 1792.2 | 1201.8 | 56.4 |
| 41° | 7601.5 | 7417.5 | 7048.7 | 6453.0 | 5653.6 | 4707.8 | 3706.7 | 2712.9 | 1861.2 | 1232.1 | 54.3 |
| 42° | 7809.4 | 7658.9 | 7221.1 | 6638.0 | 5823.9 | 4843.7 | 3832.1 | 2794.4 | 1903.0 | 1247.8 | 50.2 |
| 43° | 8003.8 | 7799.0 | 7372.6 | 6745.6 | 5936.8 | 4939.8 | 3889.6 | 2832.0 | 1912.4 | 1247.8 | 44.9 |
| 44° | 7977.7 | 7783.3 | 7341.3 | 6760.2 | 5961.8 | 4968.0 | 3913.6 | 2833.0 | 1897.8 | 1232.1 | 39.7 |
| 45° | 7782.3 | 7588.9 | 7190.8 | 6632.7 | 5872.0 | 4912.6 | 3865.5 | 2791.2 | 1857.0 | 1204.9 | 35.5 |
| 46° | 7423.8 | 7231.5 | 6926.4 | 6419.6 | 5704.8 | 4787.2 | 3753.7 | 2700.3 | 1789.1 | 1161.0 | 31.4 |
| 47° | 7034.0 | 6847.0 | 6534.5 | 6075.7 | 5419.5 | 4563.6 | 3591.7 | 2572.8 | 1694.0 | 1097.3 | 28.2 |
| 48° | 6468.7 | 6351.6 | 6038.1 | 5646.2 | 5023.4 | 4213.5 | 3307.5 | 2364.9 | 1566.5 | 1014.7 | 24.0 |
| 49° | 5969.1 | 5845.8 | 5571.0 | 5149.9 | 4507.2 | 3806.0 | 2967.9 | 2112.0 | 1400.3 | 922.8 | 20.9 |
| 50° | 5491.6 | 5383.9 | 5130.0 | 4654.5 | 4041.1 | 3313.8 | 2509.1 | 1793.3 | 1191.3 | 808.8 | 17.8 |
| 51° | 5024.5 | 4944.0 | 4684.8 | 4248.0 | 3625.2 | 2935.5 | 2173.6 | 1493.3 | 984.4 | 670.9 | 16.7 |
| 52° | 4555.2 | 4545.8 | 4264.7 | 3822.7 | 3220.7 | 2558.2 | 1847.6 | 1260.3 | 835.0 | 563.3 | 15.7 |
| 53° | 4050.5 | 3989.9 | 3744.3 | 3347.2 | 2769.3 | 2165.3 | 1566.5 | 1062.8 | 719.0 | 479.7 | 13.6 |
| 54° | 3475.7 | 3407.8 | 3144.5 | 2786.0 | 2262.5 | 1773.4 | 1262.4 | 859.0 | 598.8 | 405.5 | 12.5 |
| 55° | 2836.2 | 2720.2 | 2528.9 | 2161.1 | 1767.1 | 1353.3 | 975.0 | 680.3 | 478.6 | 337.5 | 10.5 |
| 56° | 2151.7 | 2035.7 | 1928.1 | 1657.4 | 1296.9 | 1009.5 | 726.3 | 521.5 | 374.1 | 266.5 | 9.4 |
| 57° | 1496.5 | 1490.2 | 1313.6 | 1105.6 | 867.4 | 687.6 | 497.4 | 367.8 | 264.4 | 206.9 | 7.3 |
| 58° | 970.8 | 938.4 | 825.6 | 705.4 | 567.4 | 429.5 | 319.8 | 249.8 | 179.7 | 141.1 | 6.3 |
| 59° | 680.3 | 615.5 | 554.9 | 470.3 | 357.4 | 270.7 | 205.9 | 159.9 | 124.4 | 98.2 | 4.2 |
| 60° | 418.0 | 404.4 | 363.7 | 286.3 | 232.0 | 191.2 | 153.6 | 118.1 | 90.9 | 70.0 | 2.1 |
| 62.5° | 119.1 | 121.2 | 109.7 | 97.2 | 83.6 | 72.1 | 64.8 | 55.4 | 46.0 | 36.6 | 0.0 |
| 65° | 27.2 | 26.1 | 28.2 | 26.1 | 24.0 | 24.0 | 20.9 | 18.8 | 16.7 | 15.7 | 0.0 |



TEST NUMBER: P1311447

CATALOG NUMBER: LDSQA3D13R209040DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 67.5° | 8.4 | 8.4 | 7.3 | 7.3 | 7.3 | 6.3 | 6.3 | 5.2 | 5.2 | 4.2 | 0.0 |
| 70° | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 2.1 | 2.1 | 2.1 | 1.0 | 1.0 | 0.0 |
| 72.5° | 3.1 | 3.1 | 3.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 1.0 | 1.0 | 1.0 |
| 75° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 1.0 | 1.0 | 1.0 | 1.0 |
| 77.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 1.0 | 2.1 | 1.0 | 1.0 | 1.0 | 1.0 |
| 80° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 82.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 85° | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 0.0 | 1.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| 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: P1311447

CATALOG NUMBER: LDSQA3D13R209040DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

| | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0° | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 |
| 2.5° | 80.5 | 76.3 | 73.2 | 70.0 | 69.0 | 69.0 |
| 5° | 78.4 | 72.1 | 65.8 | 62.7 | 60.6 | 60.6 |
| 7.5° | 72.1 | 64.8 | 58.5 | 55.4 | 54.3 | 54.3 |
| 10° | 64.8 | 56.4 | 50.2 | 48.1 | 48.1 | 47.0 |
| 12.5° | 56.4 | 48.1 | 43.9 | 42.8 | 42.8 | 42.8 |
| 15° | 47.0 | 40.8 | 37.6 | 37.6 | 38.7 | 39.7 |
| 17.5° | 39.7 | 33.4 | 32.4 | 34.5 | 36.6 | 36.6 |
| 20° | 33.4 | 29.3 | 29.3 | 31.4 | 33.4 | 34.5 |
| 22.5° | 28.2 | 25.1 | 26.1 | 29.3 | 32.4 | 33.4 |
| 25° | 25.1 | 21.9 | 24.0 | 27.2 | 30.3 | 32.4 |
| 27.5° | 20.9 | 19.9 | 21.9 | 26.1 | 30.3 | 31.4 |
| 30° | 17.8 | 17.8 | 20.9 | 25.1 | 29.3 | 30.3 |
| 31° | 16.7 | 16.7 | 20.9 | 25.1 | 29.3 | 30.3 |
| 32° | 15.7 | 16.7 | 19.9 | 25.1 | 29.3 | 30.3 |
| 33° | 14.6 | 15.7 | 19.9 | 24.0 | 29.3 | 30.3 |
| 34° | 13.6 | 15.7 | 19.9 | 24.0 | 29.3 | 30.3 |
| 35° | 12.5 | 15.7 | 19.9 | 24.0 | 29.3 | 30.3 |
| 36° | 11.5 | 14.6 | 18.8 | 24.0 | 29.3 | 30.3 |
| 37° | 10.5 | 14.6 | 18.8 | 24.0 | 29.3 | 30.3 |
| 38° | 9.4 | 13.6 | 18.8 | 24.0 | 29.3 | 30.3 |
| 39° | 9.4 | 13.6 | 17.8 | 24.0 | 28.2 | 30.3 |
| 40° | 8.4 | 12.5 | 17.8 | 24.0 | 28.2 | 30.3 |
| 41° | 7.3 | 12.5 | 17.8 | 23.0 | 28.2 | 30.3 |
| 42° | 6.3 | 11.5 | 16.7 | 23.0 | 28.2 | 30.3 |
| 43° | 5.2 | 11.5 | 16.7 | 23.0 | 28.2 | 30.3 |
| 44° | 5.2 | 10.5 | 16.7 | 23.0 | 28.2 | 30.3 |
| 45° | 4.2 | 10.5 | 16.7 | 23.0 | 28.2 | 30.3 |
| 46° | 3.1 | 10.5 | 16.7 | 23.0 | 28.2 | 30.3 |
| 47° | 3.1 | 9.4 | 15.7 | 23.0 | 28.2 | 30.3 |
| 48° | 2.1 | 9.4 | 15.7 | 23.0 | 28.2 | 30.3 |
| 49° | 2.1 | 9.4 | 15.7 | 23.0 | 28.2 | 31.4 |
| 50° | 2.1 | 9.4 | 15.7 | 21.9 | 28.2 | 31.4 |
| 51° | 1.0 | 9.4 | 15.7 | 21.9 | 28.2 | 31.4 |
| 52° | 1.0 | 9.4 | 14.6 | 21.9 | 29.3 | 31.4 |
| 53° | 1.0 | 8.4 | 14.6 | 21.9 | 29.3 | 31.4 |
| 54° | 1.0 | 8.4 | 14.6 | 21.9 | 29.3 | 30.3 |
| 55° | 1.0 | 8.4 | 14.6 | 21.9 | 28.2 | 30.3 |
| 56° | 1.0 | 7.3 | 14.6 | 21.9 | 28.2 | 30.3 |
| 57° | 1.0 | 7.3 | 13.6 | 20.9 | 28.2 | 29.3 |
| 58° | 1.0 | 7.3 | 13.6 | 20.9 | 28.2 | 29.3 |
| 59° | 1.0 | 7.3 | 13.6 | 20.9 | 27.2 | 29.3 |
| 60° | 2.1 | 6.3 | 12.5 | 19.9 | 27.2 | 29.3 |
| 62.5° | 2.1 | 6.3 | 12.5 | 19.9 | 26.1 | 28.2 |
| 65° | 2.1 | 6.3 | 11.5 | 18.8 | 26.1 | 28.2 |



TEST NUMBER: P1311447

CATALOG NUMBER: LDSQA3D13R209040DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

| | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 2.1 | 5.2 | 10.5 | 17.8 | 25.1 | 27.2 |
| 70° | 2.1 | 6.3 | 10.5 | 16.7 | 24.0 | 26.1 |
| 72.5° | 3.1 | 5.2 | 9.4 | 15.7 | 23.0 | 25.1 |
| 75° | 3.1 | 5.2 | 9.4 | 14.6 | 21.9 | 23.0 |
| 77.5° | 4.2 | 5.2 | 8.4 | 12.5 | 19.9 | 20.9 |
| 80° | 4.2 | 5.2 | 7.3 | 10.5 | 16.7 | 17.8 |
| 82.5° | 4.2 | 5.2 | 5.2 | 8.4 | 12.5 | 13.6 |
| 85° | 3.1 | 4.2 | 4.2 | 5.2 | 8.4 | 9.4 |
| 87.5° | 3.1 | 4.2 | 3.1 | 2.1 | 4.2 | 4.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)