

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: P1313689

Luminaire Tested: LDSQA3D13R359727DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R359727DE010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 97CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

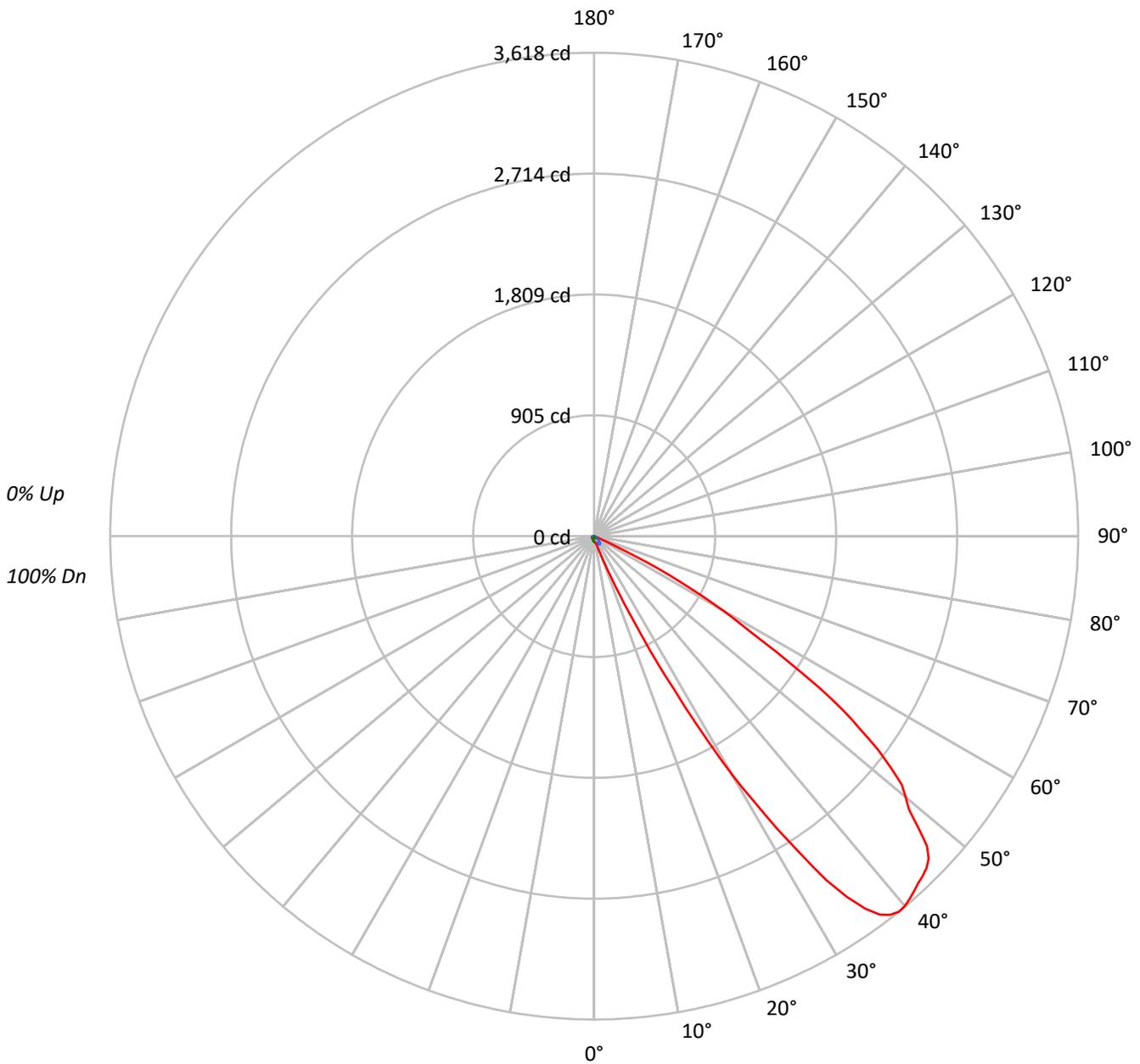
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 901.0 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
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: P1313689
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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°



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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 | 100 | 100 | 100 | 100 |
| 1 | 110 | 106 | 102 | 99 | 107 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 89 | 87 | 87 | 87 | 87 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 83 | 78 | 84 | 80 | 77 | 81 | 78 | 75 | 73 | 73 | 73 | 73 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 | 61 | 61 | 61 |
| 4 | 83 | 71 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 | 50 | 50 | 50 |
| 5 | 75 | 62 | 52 | 46 | 73 | 61 | 52 | 45 | 58 | 51 | 45 | 56 | 50 | 44 | 55 | 49 | 44 | 42 | 42 | 42 | 42 |
| 6 | 68 | 54 | 45 | 38 | 66 | 53 | 44 | 38 | 51 | 43 | 38 | 50 | 43 | 37 | 48 | 42 | 37 | 35 | 35 | 35 | 35 |
| 7 | 62 | 48 | 38 | 32 | 60 | 47 | 38 | 32 | 45 | 37 | 32 | 44 | 37 | 31 | 42 | 36 | 31 | 29 | 29 | 29 | 29 |
| 8 | 57 | 42 | 33 | 27 | 55 | 41 | 33 | 27 | 40 | 32 | 27 | 39 | 32 | 26 | 38 | 31 | 26 | 24 | 24 | 24 | 24 |
| 9 | 52 | 38 | 29 | 23 | 50 | 37 | 29 | 23 | 36 | 28 | 23 | 35 | 28 | 22 | 34 | 27 | 22 | 20 | 20 | 20 | 20 |
| 10 | 48 | 34 | 25 | 19 | 46 | 33 | 25 | 19 | 32 | 25 | 19 | 31 | 24 | 19 | 30 | 24 | 19 | 17 | 17 | 17 | 17 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|-------|------|------|-------|
| 0° | 7147 | 7147 | 7147 | 7147 | 7147 |
| 5° | 7728 | 7589 | 7036 | 6327 | 6189 |
| 10° | 8114 | 7397 | 6261 | 5404 | 5404 |
| 15° | 11607 | 7257 | 5081 | 4636 | 4778 |
| 20° | 29067 | 7753 | 4032 | 4032 | 4472 |
| 25° | 134938 | 9900 | 3097 | 3706 | 4181 |
| 30° | 410180 | 13423 | 2426 | 3401 | 4196 |
| 35° | 693241 | 15558 | 2060 | 3259 | 4100 |
| 40° | 812614 | 15355 | 1641 | 3282 | 4384 |
| 45° | 855795 | 10887 | 1388 | 3556 | 4749 |
| 50° | 814590 | 6538 | 1313 | 3697 | 5225 |
| 55° | 682583 | 2672 | 1471 | 4144 | 6095 |
| 60° | 382128 | 551 | 1688 | 4753 | 6717 |
| 65° | 65976 | 326 | 1671 | 5298 | 7621 |
| 70° | 1209 | 403 | 2065 | 5740 | 8611 |
| 75° | 1065 | 532 | 2728 | 6521 | 9715 |
| 80° | 793 | 793 | 3273 | 7240 | 11306 |
| 85° | 0 | 1581 | 6521 | 8102 | 12844 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 46°
 Luminance: 861834 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 3.7 | 0.4 |
| 10°-20° | 10.6 | 1.2 |
| 20°-30° | 55.3 | 6.1 |
| 30°-40° | 238.8 | 26.5 |
| 40°-50° | 340.6 | 37.8 |
| 50°-60° | 210.9 | 23.4 |
| 60°-70° | 32.1 | 3.6 |
| 70°-80° | 6.0 | 0.7 |
| 80°-90° | 3.0 | 0.3 |
| 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° | 69.6 | 7.7 |
| 0°-40° | 308.4 | 34.2 |
| 0°-60° | 859.9 | 95.4 |
| 0°-90° | 901.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 901.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 42 | 42 | 42 | 42 | 42 | |
| 5° | 45 | 44 | 41 | 37 | 36 | 4 |
| 15° | 65 | 41 | 28 | 26 | 27 | 23 |
| 25° | 710 | 52 | 16 | 20 | 22 | 425 |
| 35° | 3297 | 74 | 10 | 16 | 20 | 1980 |
| 45° | 3514 | 45 | 6 | 15 | 20 | 2655 |
| 55° | 2273 | 9 | 5 | 14 | 20 | 1936 |
| 65° | 162 | 1 | 4 | 13 | 19 | 331 |
| 75° | 2 | 1 | 4 | 10 | 15 | 2 |
| 85° | 0 | 1 | 3 | 4 | 6 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1313689

CATALOG NUMBER: LDSQA3D13R359727DE010 3LSQCA45R 1MB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|-------|------|-------|------|--------|
| 0° | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 |
| 2.5° | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 41.5 | 40.7 |
| 5° | 44.7 | 44.7 | 43.9 | 43.9 | 43.9 | 43.9 | 43.9 | 43.9 | 42.3 | 40.7 | 38.2 |
| 7.5° | 45.5 | 45.5 | 44.7 | 44.7 | 44.7 | 44.7 | 43.9 | 43.1 | 41.5 | 38.2 | 35.8 |
| 10° | 46.4 | 46.4 | 46.4 | 46.4 | 45.5 | 44.7 | 43.9 | 42.3 | 39.9 | 35.8 | 33.3 |
| 12.5° | 52.1 | 52.1 | 51.2 | 49.6 | 48.0 | 46.4 | 44.7 | 41.5 | 36.6 | 32.5 | 30.1 |
| 15° | 65.1 | 64.3 | 62.6 | 60.2 | 56.9 | 52.9 | 49.6 | 40.7 | 33.3 | 28.5 | 26.8 |
| 17.5° | 91.1 | 89.5 | 87.0 | 78.9 | 71.6 | 64.3 | 57.7 | 40.7 | 30.1 | 25.2 | 23.6 |
| 20° | 158.6 | 159.4 | 142.3 | 122.8 | 106.5 | 88.7 | 72.4 | 42.3 | 26.8 | 22.0 | 21.1 |
| 22.5° | 331.0 | 318.0 | 277.4 | 230.2 | 175.7 | 135.8 | 102.5 | 46.4 | 23.6 | 18.7 | 18.7 |
| 25° | 710.1 | 660.4 | 562.0 | 424.6 | 299.3 | 212.3 | 148.8 | 52.1 | 21.1 | 16.3 | 17.1 |
| 27.5° | 1296.5 | 1251.7 | 1054.1 | 793.8 | 527.0 | 320.5 | 201.7 | 59.4 | 18.7 | 13.8 | 15.5 |
| 30° | 2062.6 | 1939.0 | 1681.2 | 1301.4 | 880.9 | 490.4 | 270.8 | 67.5 | 15.5 | 12.2 | 14.6 |
| 31° | 2301.8 | 2244.8 | 1930.9 | 1505.5 | 1032.1 | 582.4 | 300.1 | 69.9 | 14.6 | 12.2 | 13.8 |
| 32° | 2585.6 | 2484.8 | 2203.4 | 1729.2 | 1185.9 | 664.5 | 335.1 | 72.4 | 13.8 | 10.6 | 13.8 |
| 33° | 2839.4 | 2741.8 | 2399.4 | 1926.0 | 1341.2 | 758.0 | 372.5 | 73.2 | 12.2 | 10.6 | 13.0 |
| 34° | 3106.2 | 2972.8 | 2633.6 | 2131.8 | 1500.6 | 858.9 | 406.7 | 74.0 | 11.4 | 9.8 | 13.0 |
| 35° | 3297.3 | 3163.9 | 2835.3 | 2294.4 | 1638.1 | 948.4 | 445.7 | 74.0 | 10.6 | 9.8 | 12.2 |
| 36° | 3445.3 | 3328.2 | 3009.4 | 2462.0 | 1774.7 | 1028.9 | 476.6 | 74.0 | 8.9 | 8.9 | 12.2 |
| 37° | 3547.0 | 3435.6 | 3126.5 | 2606.0 | 1878.8 | 1100.5 | 504.3 | 74.0 | 8.1 | 8.9 | 12.2 |
| 38° | 3596.6 | 3503.9 | 3239.6 | 2710.9 | 1979.7 | 1156.6 | 526.2 | 72.4 | 7.3 | 8.1 | 11.4 |
| 39° | 3617.8 | 3542.1 | 3308.7 | 2799.5 | 2055.3 | 1205.4 | 542.5 | 70.8 | 6.5 | 8.1 | 11.4 |
| 40° | 3614.5 | 3548.6 | 3347.7 | 2860.5 | 2116.3 | 1238.7 | 551.4 | 68.3 | 5.7 | 7.3 | 11.4 |
| 41° | 3595.8 | 3538.9 | 3368.1 | 2912.6 | 2152.9 | 1261.5 | 553.9 | 65.9 | 4.9 | 7.3 | 10.6 |
| 42° | 3574.7 | 3522.6 | 3374.6 | 2940.2 | 2176.5 | 1268.8 | 547.4 | 62.6 | 4.9 | 6.5 | 10.6 |
| 43° | 3552.7 | 3504.7 | 3374.6 | 2949.2 | 2182.2 | 1263.9 | 536.8 | 56.9 | 4.1 | 6.5 | 10.6 |
| 44° | 3534.8 | 3489.3 | 3364.0 | 2946.8 | 2170.0 | 1245.2 | 517.3 | 50.4 | 3.3 | 6.5 | 10.6 |
| 45° | 3513.7 | 3468.9 | 3350.2 | 2931.3 | 2146.4 | 1213.5 | 492.9 | 44.7 | 2.4 | 5.7 | 10.6 |
| 46° | 3476.2 | 3441.3 | 3325.8 | 2899.6 | 2109.0 | 1169.6 | 462.0 | 40.7 | 1.6 | 5.7 | 9.8 |
| 47° | 3403.9 | 3373.8 | 3278.6 | 2852.4 | 2059.4 | 1117.5 | 430.3 | 36.6 | 1.6 | 5.7 | 9.8 |
| 48° | 3258.3 | 3257.4 | 3184.2 | 2764.6 | 1980.5 | 1052.5 | 396.9 | 32.5 | 1.6 | 5.7 | 9.8 |
| 49° | 3117.6 | 3102.9 | 3011.8 | 2610.0 | 1867.4 | 974.4 | 361.9 | 29.3 | 0.8 | 5.7 | 9.8 |
| 50° | 3040.3 | 3008.6 | 2858.9 | 2427.8 | 1722.7 | 866.2 | 324.5 | 24.4 | 0.8 | 4.9 | 9.8 |
| 51° | 2959.8 | 2914.2 | 2737.7 | 2263.5 | 1550.2 | 762.1 | 283.9 | 19.5 | 0.8 | 4.9 | 8.9 |
| 52° | 2814.2 | 2771.1 | 2573.4 | 2106.6 | 1382.7 | 655.6 | 244.8 | 16.3 | 0.8 | 4.9 | 9.8 |
| 53° | 2657.2 | 2595.4 | 2380.7 | 1934.1 | 1235.5 | 561.2 | 205.0 | 13.8 | 0.8 | 4.9 | 8.9 |
| 54° | 2459.6 | 2431.9 | 2185.5 | 1722.7 | 1063.0 | 470.1 | 168.4 | 11.4 | 0.8 | 4.9 | 8.9 |
| 55° | 2273.3 | 2232.6 | 1976.4 | 1506.3 | 906.9 | 385.5 | 140.7 | 8.9 | 0.8 | 4.9 | 8.9 |
| 56° | 2035.8 | 1974.8 | 1734.9 | 1307.9 | 748.3 | 310.7 | 118.7 | 7.3 | 0.8 | 4.9 | 8.9 |
| 57° | 1752.8 | 1687.7 | 1498.2 | 1087.4 | 587.2 | 236.7 | 99.2 | 5.7 | 0.8 | 4.9 | 8.9 |
| 58° | 1482.7 | 1426.6 | 1223.3 | 839.4 | 442.5 | 164.3 | 82.1 | 4.1 | 0.8 | 4.1 | 8.9 |
| 59° | 1281.0 | 1219.2 | 1017.5 | 645.8 | 307.4 | 121.2 | 61.8 | 3.3 | 0.8 | 4.9 | 8.9 |
| 60° | 1109.4 | 1029.7 | 819.0 | 500.2 | 219.6 | 87.0 | 45.5 | 1.6 | 1.6 | 4.9 | 8.9 |
| 62.5° | 639.3 | 564.5 | 391.2 | 203.3 | 90.3 | 44.7 | 22.0 | 0.8 | 1.6 | 4.9 | 8.9 |
| 65° | 161.9 | 144.0 | 93.5 | 43.9 | 25.2 | 15.5 | 8.1 | 0.8 | 1.6 | 4.1 | 8.1 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|--------|
| 67.5° | 5.7 | 5.7 | 5.7 | 4.9 | 4.1 | 3.3 | 1.6 | 0.8 | 1.6 | 4.1 | 8.1 |
| 70° | 2.4 | 2.4 | 2.4 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 1.6 | 4.1 | 7.3 |
| 72.5° | 1.6 | 1.6 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 2.4 | 4.1 | 6.5 |
| 75° | 1.6 | 1.6 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 2.4 | 4.1 | 6.5 |
| 77.5° | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 2.4 | 3.3 | 5.7 |
| 80° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 2.4 | 3.3 | 4.9 |
| 82.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 2.4 | 3.3 | 4.1 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 0.8 | 2.4 | 3.3 | 3.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 2.4 | 3.3 | 2.4 |
| 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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CATALOG NUMBER: LDSQA3D13R359727DE010 3LSQCA45R 1MB

CANDELA DISTRIBUTION (continued):

| | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0° | 41.5 | 41.5 | 41.5 |
| 2.5° | 39.0 | 39.0 | 39.0 |
| 5° | 36.6 | 36.6 | 35.8 |
| 7.5° | 34.2 | 33.3 | 33.3 |
| 10° | 30.9 | 30.9 | 30.9 |
| 12.5° | 28.5 | 28.5 | 28.5 |
| 15° | 26.0 | 26.8 | 26.8 |
| 17.5° | 23.6 | 25.2 | 25.2 |
| 20° | 22.0 | 23.6 | 24.4 |
| 22.5° | 20.3 | 22.0 | 22.8 |
| 25° | 19.5 | 21.1 | 22.0 |
| 27.5° | 17.9 | 20.3 | 22.0 |
| 30° | 17.1 | 19.5 | 21.1 |
| 31° | 17.1 | 19.5 | 20.3 |
| 32° | 16.3 | 19.5 | 20.3 |
| 33° | 16.3 | 19.5 | 20.3 |
| 34° | 16.3 | 18.7 | 20.3 |
| 35° | 15.5 | 18.7 | 19.5 |
| 36° | 15.5 | 18.7 | 19.5 |
| 37° | 15.5 | 18.7 | 20.3 |
| 38° | 15.5 | 18.7 | 19.5 |
| 39° | 14.6 | 18.7 | 19.5 |
| 40° | 14.6 | 18.7 | 19.5 |
| 41° | 14.6 | 18.7 | 19.5 |
| 42° | 14.6 | 18.7 | 19.5 |
| 43° | 14.6 | 18.7 | 19.5 |
| 44° | 14.6 | 17.9 | 19.5 |
| 45° | 14.6 | 17.9 | 19.5 |
| 46° | 14.6 | 18.7 | 19.5 |
| 47° | 14.6 | 18.7 | 20.3 |
| 48° | 14.6 | 17.9 | 19.5 |
| 49° | 13.8 | 17.9 | 19.5 |
| 50° | 13.8 | 17.9 | 19.5 |
| 51° | 13.8 | 18.7 | 20.3 |
| 52° | 13.8 | 18.7 | 20.3 |
| 53° | 13.8 | 18.7 | 20.3 |
| 54° | 13.8 | 18.7 | 19.5 |
| 55° | 13.8 | 18.7 | 20.3 |
| 56° | 13.8 | 18.7 | 19.5 |
| 57° | 13.8 | 18.7 | 19.5 |
| 58° | 13.8 | 17.9 | 19.5 |
| 59° | 13.8 | 17.9 | 19.5 |
| 60° | 13.8 | 17.9 | 19.5 |
| 62.5° | 13.0 | 17.9 | 19.5 |
| 65° | 13.0 | 17.1 | 18.7 |



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CANDELA DISTRIBUTION (continued):

| | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 67.5° | 12.2 | 17.1 | 17.9 |
| 70° | 11.4 | 16.3 | 17.1 |
| 72.5° | 10.6 | 15.5 | 16.3 |
| 75° | 9.8 | 13.8 | 14.6 |
| 77.5° | 8.1 | 12.2 | 13.8 |
| 80° | 7.3 | 10.6 | 11.4 |
| 82.5° | 5.7 | 8.9 | 9.8 |
| 85° | 4.1 | 6.5 | 6.5 |
| 87.5° | 1.6 | 3.3 | 3.3 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)