

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: P1315261

Luminaire Tested: LDSQA3D05R209735DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315261
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: LDSQA3D05R209735DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

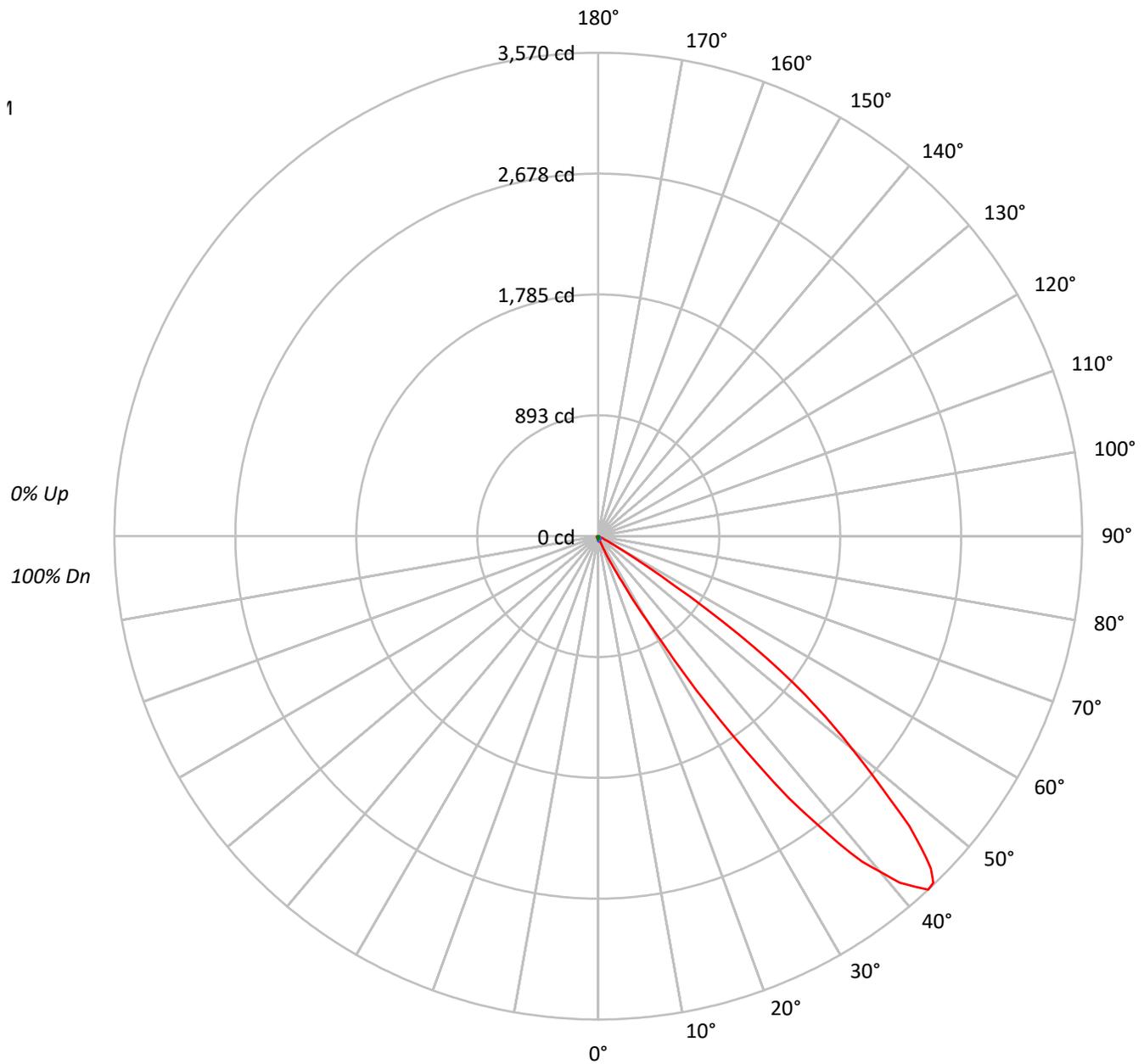
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 496.0 lumens
Efficiency: N/A
Efficacy: 68.9 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): 7.2
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: P1315261
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Luminous Intensity Polar Plot



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



TEST NUMBER: P1315261

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|------|------|------|------|
| 0° | 5942 | 5942 | 5942 | 5942 | 5942 |
| 5° | 6933 | 6448 | 5567 | 4841 | 4668 |
| 10° | 6855 | 5876 | 4407 | 3742 | 3672 |
| 15° | 5991 | 4493 | 3245 | 2995 | 3156 |
| 20° | 8889 | 3757 | 2401 | 2566 | 2822 |
| 25° | 38271 | 3896 | 1862 | 2299 | 2736 |
| 30° | 144695 | 4733 | 1571 | 2227 | 2685 |
| 35° | 438655 | 5677 | 1472 | 2250 | 2838 |
| 40° | 727385 | 5665 | 1259 | 2406 | 3035 |
| 45° | 845444 | 3848 | 1145 | 2509 | 3288 |
| 50° | 656297 | 2117 | 1125 | 2626 | 3751 |
| 55° | 379860 | 1411 | 1111 | 2943 | 4054 |
| 60° | 64205 | 310 | 964 | 3066 | 4512 |
| 65° | 4931 | 0 | 1141 | 3423 | 5135 |
| 70° | 705 | 0 | 1410 | 3777 | 5891 |
| 75° | 599 | 333 | 1530 | 4325 | 6854 |
| 80° | 496 | 496 | 2281 | 4661 | 7835 |
| 85° | 988 | 988 | 3754 | 4545 | 8299 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 845444 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 3.0 | 0.6 |
| 10°-20° | 6.2 | 1.3 |
| 20°-30° | 19.8 | 4.0 |
| 30°-40° | 126.5 | 25.5 |
| 40°-50° | 231.5 | 46.7 |
| 50°-60° | 95.1 | 19.2 |
| 60°-70° | 8.0 | 1.6 |
| 70°-80° | 4.0 | 0.8 |
| 80°-90° | 1.9 | 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° | 29.0 | 5.8 |
| 0°-40° | 155.5 | 31.3 |
| 0°-60° | 482.1 | 97.2 |
| 0°-90° | 496.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 496.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 34 | 34 | 34 | 34 | 34 | |
| 5° | 40 | 37 | 32 | 28 | 27 | 4 |
| 15° | 34 | 25 | 18 | 17 | 18 | 11 |
| 25° | 201 | 20 | 10 | 12 | 14 | 132 |
| 35° | 2086 | 27 | 7 | 11 | 14 | 1321 |
| 45° | 3471 | 16 | 5 | 10 | 14 | 2492 |
| 55° | 1265 | 5 | 4 | 10 | 14 | 1106 |
| 65° | 12 | 0 | 3 | 8 | 13 | 39 |
| 75° | 1 | 0 | 2 | 6 | 10 | 1 |
| 85° | 0 | 0 | 2 | 2 | 4 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1315261

CATALOG NUMBER: LDSQA3D05R209735DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------|
| 0° | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 |
| 2.5° | 37.8 | 37.8 | 37.8 | 37.3 | 37.3 | 37.8 | 37.3 | 37.3 | 37.3 | 37.3 | 36.8 |
| 5° | 40.1 | 40.1 | 40.1 | 40.1 | 40.1 | 40.1 | 40.1 | 39.6 | 39.6 | 39.2 | 37.3 |
| 7.5° | 41.0 | 41.0 | 41.0 | 41.0 | 40.6 | 40.6 | 40.6 | 40.6 | 40.1 | 39.6 | 36.4 |
| 10° | 39.2 | 39.2 | 39.2 | 38.7 | 38.7 | 38.7 | 38.2 | 38.2 | 37.8 | 37.3 | 33.6 |
| 12.5° | 35.4 | 35.4 | 35.4 | 35.4 | 35.0 | 35.0 | 34.5 | 34.5 | 34.0 | 33.6 | 29.4 |
| 15° | 33.6 | 33.6 | 33.6 | 33.1 | 33.1 | 32.6 | 32.2 | 31.7 | 31.2 | 30.3 | 25.2 |
| 17.5° | 36.4 | 36.4 | 35.9 | 35.9 | 35.0 | 34.0 | 33.6 | 32.2 | 31.2 | 29.8 | 22.4 |
| 20° | 48.5 | 48.9 | 47.1 | 45.7 | 44.7 | 42.0 | 40.6 | 38.2 | 36.4 | 34.0 | 20.5 |
| 22.5° | 97.9 | 96.0 | 92.8 | 87.6 | 81.6 | 76.4 | 67.1 | 59.7 | 54.5 | 47.5 | 20.0 |
| 25° | 201.4 | 199.5 | 190.6 | 183.2 | 164.5 | 150.1 | 130.0 | 113.7 | 97.0 | 80.6 | 20.5 |
| 27.5° | 382.7 | 370.1 | 367.8 | 333.7 | 307.6 | 270.4 | 231.7 | 199.0 | 169.2 | 136.1 | 21.9 |
| 30° | 727.6 | 713.2 | 662.4 | 611.1 | 540.7 | 461.0 | 385.0 | 314.2 | 255.0 | 201.4 | 23.8 |
| 31° | 923.4 | 937.4 | 877.7 | 774.7 | 670.8 | 568.7 | 464.7 | 374.8 | 298.3 | 231.7 | 24.7 |
| 32° | 1213.8 | 1152.7 | 1089.8 | 984.0 | 833.0 | 702.4 | 571.9 | 442.4 | 341.7 | 264.3 | 25.6 |
| 33° | 1488.3 | 1452.4 | 1356.4 | 1224.5 | 1043.2 | 860.0 | 690.8 | 522.1 | 394.8 | 303.9 | 26.1 |
| 34° | 1781.1 | 1741.4 | 1663.6 | 1474.3 | 1275.3 | 1035.3 | 809.7 | 613.9 | 458.2 | 342.6 | 26.6 |
| 35° | 2086.4 | 2069.6 | 1919.5 | 1755.4 | 1510.7 | 1221.2 | 952.8 | 714.6 | 520.2 | 378.0 | 27.0 |
| 36° | 2393.5 | 2339.5 | 2222.0 | 1982.4 | 1727.0 | 1393.2 | 1102.8 | 808.3 | 583.1 | 420.0 | 27.0 |
| 37° | 2624.7 | 2612.6 | 2456.9 | 2223.4 | 1923.2 | 1576.9 | 1232.4 | 912.2 | 646.5 | 455.9 | 27.0 |
| 38° | 2879.7 | 2831.7 | 2673.7 | 2436.0 | 2107.8 | 1745.2 | 1368.1 | 1002.6 | 706.6 | 488.5 | 26.6 |
| 39° | 3094.6 | 3023.3 | 2863.9 | 2628.9 | 2269.1 | 1872.9 | 1475.7 | 1090.3 | 759.8 | 515.5 | 26.1 |
| 40° | 3235.4 | 3186.0 | 3019.5 | 2755.3 | 2415.5 | 1993.6 | 1584.8 | 1162.5 | 799.4 | 536.0 | 25.2 |
| 41° | 3390.6 | 3308.5 | 3144.0 | 2878.3 | 2521.7 | 2099.9 | 1653.3 | 1210.1 | 830.2 | 549.6 | 24.2 |
| 42° | 3483.3 | 3416.2 | 3220.9 | 2960.8 | 2597.7 | 2160.5 | 1709.3 | 1246.4 | 848.8 | 556.6 | 22.4 |
| 43° | 3570.0 | 3478.7 | 3288.5 | 3008.8 | 2648.0 | 2203.4 | 1734.9 | 1263.2 | 853.0 | 556.6 | 20.0 |
| 44° | 3558.4 | 3471.7 | 3274.5 | 3015.4 | 2659.2 | 2216.0 | 1745.6 | 1263.7 | 846.5 | 549.6 | 17.7 |
| 45° | 3471.2 | 3385.0 | 3207.4 | 2958.5 | 2619.1 | 2191.2 | 1724.2 | 1245.0 | 828.3 | 537.4 | 15.8 |
| 46° | 3311.3 | 3225.6 | 3089.5 | 2863.4 | 2544.6 | 2135.3 | 1674.3 | 1204.5 | 798.0 | 517.9 | 14.0 |
| 47° | 3137.5 | 3054.0 | 2914.7 | 2710.0 | 2417.3 | 2035.6 | 1602.1 | 1147.6 | 755.6 | 489.4 | 12.6 |
| 48° | 2885.3 | 2833.1 | 2693.3 | 2518.5 | 2240.7 | 1879.4 | 1475.3 | 1054.8 | 698.7 | 452.6 | 10.7 |
| 49° | 2662.5 | 2607.5 | 2484.9 | 2297.1 | 2010.4 | 1697.6 | 1323.8 | 942.0 | 624.6 | 411.6 | 9.3 |
| 50° | 2449.5 | 2401.5 | 2288.2 | 2076.1 | 1802.5 | 1478.1 | 1119.2 | 799.9 | 531.4 | 360.8 | 7.9 |
| 51° | 2241.1 | 2205.2 | 2089.6 | 1894.8 | 1617.0 | 1309.3 | 969.5 | 666.1 | 439.1 | 299.3 | 7.5 |
| 52° | 2031.8 | 2027.6 | 1902.3 | 1705.1 | 1436.6 | 1141.1 | 824.1 | 562.1 | 372.4 | 251.2 | 7.0 |
| 53° | 1806.7 | 1779.7 | 1670.1 | 1493.0 | 1235.2 | 965.8 | 698.7 | 474.0 | 320.7 | 214.0 | 6.1 |
| 54° | 1550.3 | 1520.0 | 1402.6 | 1242.7 | 1009.2 | 791.0 | 563.1 | 383.2 | 267.1 | 180.9 | 5.6 |
| 55° | 1265.1 | 1213.3 | 1128.0 | 963.9 | 788.2 | 603.6 | 434.9 | 303.4 | 213.5 | 150.6 | 4.7 |
| 56° | 959.7 | 908.0 | 860.0 | 739.3 | 578.5 | 450.3 | 324.0 | 232.6 | 166.9 | 118.9 | 4.2 |
| 57° | 667.5 | 664.7 | 585.9 | 493.2 | 386.9 | 306.7 | 221.9 | 164.1 | 117.9 | 92.3 | 3.3 |
| 58° | 433.0 | 418.6 | 368.2 | 314.6 | 253.1 | 191.6 | 142.6 | 111.4 | 80.2 | 62.9 | 2.8 |
| 59° | 303.4 | 274.5 | 247.5 | 209.8 | 159.4 | 120.7 | 91.8 | 71.3 | 55.5 | 43.8 | 1.9 |
| 60° | 186.4 | 180.4 | 162.2 | 127.7 | 103.5 | 85.3 | 68.5 | 52.7 | 40.6 | 31.2 | 0.9 |
| 62.5° | 53.1 | 54.1 | 48.9 | 43.3 | 37.3 | 32.2 | 28.9 | 24.7 | 20.5 | 16.3 | 0.0 |
| 65° | 12.1 | 11.7 | 12.6 | 11.7 | 10.7 | 10.7 | 9.3 | 8.4 | 7.5 | 7.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 67.5° | 3.7 | 3.7 | 3.3 | 3.3 | 3.3 | 2.8 | 2.8 | 2.3 | 2.3 | 1.9 | 0.0 |
| 70° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.0 |
| 72.5° | 1.4 | 1.4 | 1.4 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 |
| 75° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 |
| 77.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.5 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 |
| 80° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 82.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 85° | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.0 | 0.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 |
| 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: P1315261

CATALOG NUMBER: LDSQA3D05R209735DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

| | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0° | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 |
| 2.5° | 35.9 | 34.0 | 32.6 | 31.2 | 30.8 | 30.8 |
| 5° | 35.0 | 32.2 | 29.4 | 28.0 | 27.0 | 27.0 |
| 7.5° | 32.2 | 28.9 | 26.1 | 24.7 | 24.2 | 24.2 |
| 10° | 28.9 | 25.2 | 22.4 | 21.4 | 21.4 | 21.0 |
| 12.5° | 25.2 | 21.4 | 19.6 | 19.1 | 19.1 | 19.1 |
| 15° | 21.0 | 18.2 | 16.8 | 16.8 | 17.2 | 17.7 |
| 17.5° | 17.7 | 14.9 | 14.4 | 15.4 | 16.3 | 16.3 |
| 20° | 14.9 | 13.1 | 13.1 | 14.0 | 14.9 | 15.4 |
| 22.5° | 12.6 | 11.2 | 11.7 | 13.1 | 14.4 | 14.9 |
| 25° | 11.2 | 9.8 | 10.7 | 12.1 | 13.5 | 14.4 |
| 27.5° | 9.3 | 8.9 | 9.8 | 11.7 | 13.5 | 14.0 |
| 30° | 7.9 | 7.9 | 9.3 | 11.2 | 13.1 | 13.5 |
| 31° | 7.5 | 7.5 | 9.3 | 11.2 | 13.1 | 13.5 |
| 32° | 7.0 | 7.5 | 8.9 | 11.2 | 13.1 | 13.5 |
| 33° | 6.5 | 7.0 | 8.9 | 10.7 | 13.1 | 13.5 |
| 34° | 6.1 | 7.0 | 8.9 | 10.7 | 13.1 | 13.5 |
| 35° | 5.6 | 7.0 | 8.9 | 10.7 | 13.1 | 13.5 |
| 36° | 5.1 | 6.5 | 8.4 | 10.7 | 13.1 | 13.5 |
| 37° | 4.7 | 6.5 | 8.4 | 10.7 | 13.1 | 13.5 |
| 38° | 4.2 | 6.1 | 8.4 | 10.7 | 13.1 | 13.5 |
| 39° | 4.2 | 6.1 | 7.9 | 10.7 | 12.6 | 13.5 |
| 40° | 3.7 | 5.6 | 7.9 | 10.7 | 12.6 | 13.5 |
| 41° | 3.3 | 5.6 | 7.9 | 10.3 | 12.6 | 13.5 |
| 42° | 2.8 | 5.1 | 7.5 | 10.3 | 12.6 | 13.5 |
| 43° | 2.3 | 5.1 | 7.5 | 10.3 | 12.6 | 13.5 |
| 44° | 2.3 | 4.7 | 7.5 | 10.3 | 12.6 | 13.5 |
| 45° | 1.9 | 4.7 | 7.5 | 10.3 | 12.6 | 13.5 |
| 46° | 1.4 | 4.7 | 7.5 | 10.3 | 12.6 | 13.5 |
| 47° | 1.4 | 4.2 | 7.0 | 10.3 | 12.6 | 13.5 |
| 48° | 0.9 | 4.2 | 7.0 | 10.3 | 12.6 | 13.5 |
| 49° | 0.9 | 4.2 | 7.0 | 10.3 | 12.6 | 14.0 |
| 50° | 0.9 | 4.2 | 7.0 | 9.8 | 12.6 | 14.0 |
| 51° | 0.5 | 4.2 | 7.0 | 9.8 | 12.6 | 14.0 |
| 52° | 0.5 | 4.2 | 6.5 | 9.8 | 13.1 | 14.0 |
| 53° | 0.5 | 3.7 | 6.5 | 9.8 | 13.1 | 14.0 |
| 54° | 0.5 | 3.7 | 6.5 | 9.8 | 13.1 | 13.5 |
| 55° | 0.5 | 3.7 | 6.5 | 9.8 | 12.6 | 13.5 |
| 56° | 0.5 | 3.3 | 6.5 | 9.8 | 12.6 | 13.5 |
| 57° | 0.5 | 3.3 | 6.1 | 9.3 | 12.6 | 13.1 |
| 58° | 0.5 | 3.3 | 6.1 | 9.3 | 12.6 | 13.1 |
| 59° | 0.5 | 3.3 | 6.1 | 9.3 | 12.1 | 13.1 |
| 60° | 0.9 | 2.8 | 5.6 | 8.9 | 12.1 | 13.1 |
| 62.5° | 0.9 | 2.8 | 5.6 | 8.9 | 11.7 | 12.6 |
| 65° | 0.9 | 2.8 | 5.1 | 8.4 | 11.7 | 12.6 |



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CATALOG NUMBER: LDSQA3D05R209735DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

| | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.9 | 2.3 | 4.7 | 7.9 | 11.2 | 12.1 |
| 70° | 0.9 | 2.8 | 4.7 | 7.5 | 10.7 | 11.7 |
| 72.5° | 1.4 | 2.3 | 4.2 | 7.0 | 10.3 | 11.2 |
| 75° | 1.4 | 2.3 | 4.2 | 6.5 | 9.8 | 10.3 |
| 77.5° | 1.9 | 2.3 | 3.7 | 5.6 | 8.9 | 9.3 |
| 80° | 1.9 | 2.3 | 3.3 | 4.7 | 7.5 | 7.9 |
| 82.5° | 1.9 | 2.3 | 2.3 | 3.7 | 5.6 | 6.1 |
| 85° | 1.4 | 1.9 | 1.9 | 2.3 | 3.7 | 4.2 |
| 87.5° | 1.4 | 1.9 | 1.4 | 0.9 | 1.9 | 1.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)