

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: P1310565

Luminaire Tested: LDSQA3D17R509035DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

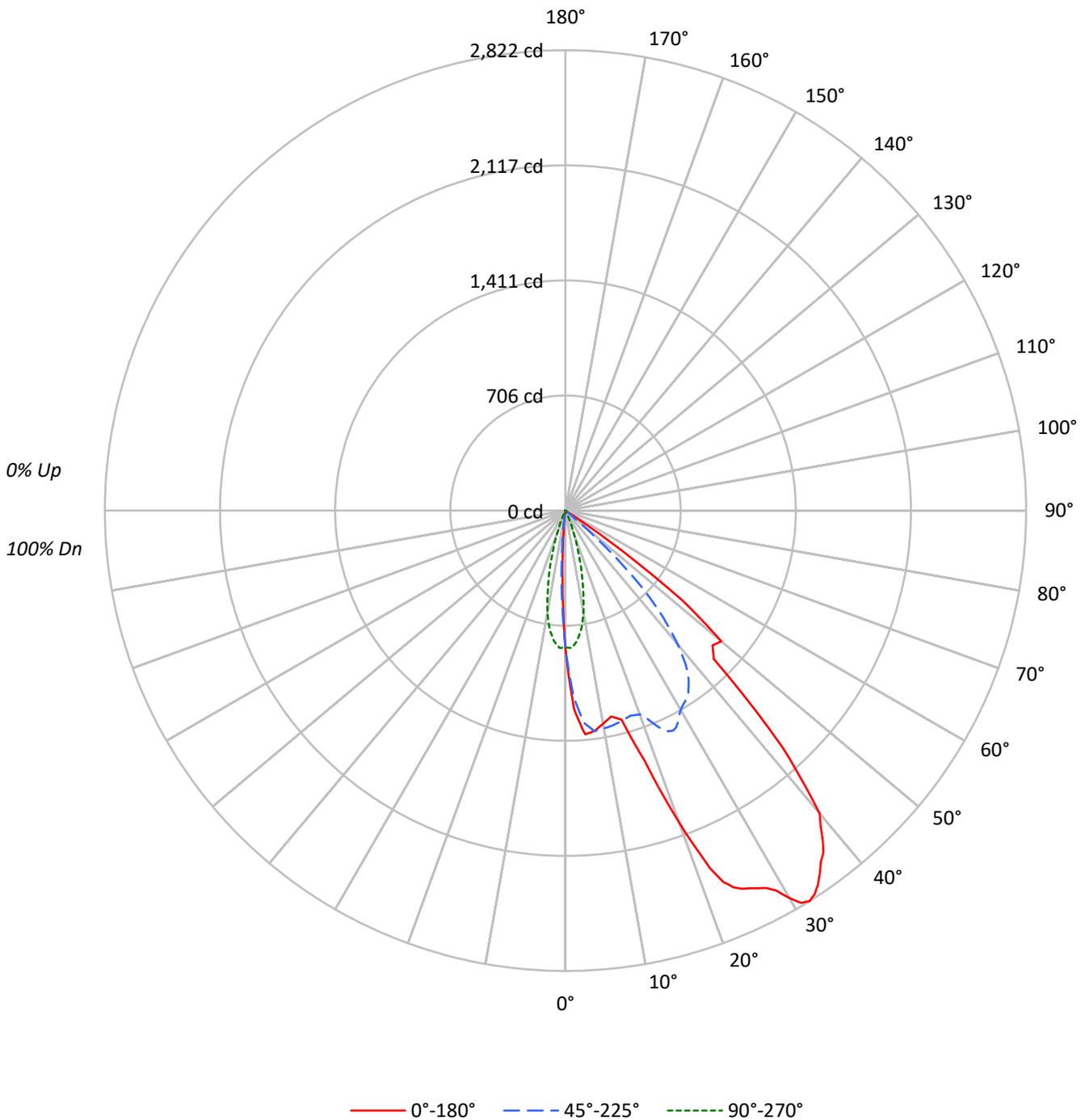
Test Method: LM-79-2019  
Report Number: P1310565  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R509035DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1351.0 lumens  
Efficiency: N/A  
Efficacy: 63.7 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P1310565

CATALOG NUMBER: LDSQA3D17R509035DE010 3LSQCA30R 1MB

**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  | 94  | 91  | 88  | 91  | 88  | 86  | 89  | 86  | 84  | 82  | 86  | 84  | 82  |
| 3   | 98  | 91  | 85  | 80  | 96  | 89  | 84  | 79  | 86  | 82  | 78  | 84  | 80  | 77  | 82  | 78  | 75  | 77  | 78  | 75  | 74  |
| 4   | 92  | 83  | 76  | 71  | 90  | 81  | 75  | 70  | 79  | 74  | 70  | 77  | 72  | 69  | 75  | 71  | 68  | 72  | 71  | 68  | 66  |
| 5   | 86  | 76  | 68  | 63  | 84  | 75  | 68  | 63  | 73  | 67  | 62  | 71  | 66  | 62  | 69  | 65  | 61  | 66  | 65  | 61  | 59  |
| 6   | 80  | 69  | 62  | 57  | 78  | 68  | 62  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 55  | 62  | 59  | 55  | 54  |
| 7   | 75  | 64  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 50  | 59  | 54  | 50  | 57  | 54  | 50  | 48  |
| 8   | 70  | 59  | 51  | 46  | 69  | 58  | 51  | 46  | 57  | 50  | 46  | 56  | 50  | 46  | 55  | 49  | 46  | 54  | 49  | 46  | 44  |
| 9   | 66  | 54  | 47  | 42  | 64  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 45  | 42  | 50  | 45  | 42  | 40  |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 46  | 42  | 38  | 37  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 45°    | 90°    | 135°   | 180°   |
|-----|--------|--------|--------|--------|--------|
| 0°  | 144460 | 144460 | 144460 | 144460 | 144460 |
| 5°  | 238022 | 225886 | 138823 | 41232  | 20625  |
| 10° | 231978 | 237067 | 111241 | 2081   | 2781   |
| 15° | 236512 | 237921 | 66630  | 2122   | 713    |
| 20° | 372801 | 243591 | 27436  | 0      | 0      |
| 25° | 485993 | 283786 | 6556   | 0      | 0      |
| 30° | 545488 | 280659 | 259    | 0      | 0      |
| 35° | 570857 | 276367 | 0      | 0      | 0      |
| 40° | 544606 | 240131 | 0      | 0      | 0      |
| 45° | 312755 | 158460 | 0      | 0      | 0      |
| 50° | 333735 | 18112  | 0      | 0      | 0      |
| 55° | 95093  | 0      | 0      | 0      | 0      |
| 60° | 0      | 0      | 448    | 0      | 0      |
| 65° | 0      | 530    | 530    | 0      | 0      |
| 70° | 0      | 655    | 655    | 0      | 0      |
| 75° | 0      | 865    | 865    | 0      | 0      |
| 80° | 0      | 1289   | 2678   | 1289   | 0      |
| 85° | 0      | 2569   | 5335   | 2569   | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 345343 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 70.5   | 5.2       |
| 10°-20°   | 177.5  | 13.1      |
| 20°-30°   | 340.9  | 25.2      |
| 30°-40°   | 396.8  | 29.4      |
| 40°-50°   | 284.0  | 21.0      |
| 50°-60°   | 79.0   | 5.9       |
| 60°-70°   | 0.5    | 0.0       |
| 70°-80°   | 0.8    | 0.1       |
| 80°-90°   | 1.0    | 0.1       |
| 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°    | 588.9  | 43.6      |
| 0°-40°    | 985.7  | 73.0      |
| 0°-60°    | 1348.7 | 99.8      |
| 0°-90°    | 1351.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1351.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 839  | 839  | 839 | 839  | 839  |      |
| 5°  | 1377 | 1307 | 803 | 238  | 119  | 126  |
| 15° | 1326 | 1334 | 374 | 12   | 4    | 428  |
| 25° | 2558 | 1493 | 34  | 0    | 0    | 1163 |
| 35° | 2715 | 1314 | 0   | 0    | 0    | 1680 |
| 45° | 1284 | 651  | 0   | 0    | 0    | 1208 |
| 55° | 317  | 0    | 0   | 0    | 0    | 399  |
| 65° | 0    | 1    | 1   | 0    | 0    | 0    |
| 75° | 0    | 1    | 1   | 0    | 0    | 0    |
| 85° | 0    | 1    | 3   | 1    | 0    | 0    |
| 90° | 0    | 0    | 0   | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 45°    | 67.5°  | 90°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0°    | 838.8  | 838.8  | 838.8  | 838.8  | 838.8  | 838.8  | 838.8  | 838.8  | 838.8  | 838.8  | 838.8 |
| 2.5°  | 1219.1 | 1225.8 | 1227.1 | 1211.2 | 1213.8 | 1191.3 | 1192.6 | 1176.7 | 1138.3 | 1004.5 | 842.8 |
| 5°    | 1376.8 | 1372.8 | 1376.8 | 1371.5 | 1376.8 | 1363.6 | 1355.6 | 1349.0 | 1306.6 | 1117.1 | 803.0 |
| 7.5°  | 1362.2 | 1356.9 | 1364.9 | 1367.5 | 1376.8 | 1372.8 | 1374.2 | 1378.1 | 1363.6 | 1178.0 | 735.5 |
| 10°   | 1326.5 | 1325.1 | 1329.1 | 1329.1 | 1339.7 | 1341.0 | 1346.3 | 1354.3 | 1355.6 | 1199.2 | 636.1 |
| 12.5° | 1292.0 | 1288.0 | 1288.0 | 1286.7 | 1292.0 | 1290.7 | 1303.9 | 1322.5 | 1347.7 | 1186.0 | 499.6 |
| 15°   | 1326.5 | 1322.5 | 1317.2 | 1302.6 | 1292.0 | 1280.1 | 1281.4 | 1293.3 | 1334.4 | 1151.5 | 373.7 |
| 17.5° | 1604.7 | 1583.5 | 1557.0 | 1510.7 | 1461.6 | 1376.8 | 1326.5 | 1294.7 | 1318.5 | 1098.5 | 249.1 |
| 20°   | 2034.1 | 2024.8 | 1982.4 | 1906.9 | 1827.4 | 1702.8 | 1547.8 | 1423.2 | 1329.1 | 1032.3 | 149.7 |
| 21°   | 2197.1 | 2191.8 | 2146.7 | 2076.5 | 1986.4 | 1835.3 | 1676.3 | 1526.6 | 1350.3 | 1004.5 | 117.9 |
| 22°   | 2364.0 | 2344.2 | 2308.4 | 2230.2 | 2136.1 | 1985.1 | 1807.5 | 1641.8 | 1392.7 | 968.7  | 90.1  |
| 23°   | 2471.4 | 2459.5 | 2421.0 | 2358.7 | 2268.6 | 2121.5 | 1940.0 | 1759.8 | 1433.8 | 928.9  | 67.6  |
| 24°   | 2527.0 | 2523.1 | 2492.6 | 2448.9 | 2372.0 | 2222.3 | 2050.0 | 1864.5 | 1468.3 | 882.5  | 49.0  |
| 25°   | 2557.5 | 2544.3 | 2525.7 | 2493.9 | 2435.6 | 2305.7 | 2152.0 | 1955.9 | 1493.4 | 836.2  | 34.5  |
| 26°   | 2576.1 | 2568.1 | 2539.0 | 2511.1 | 2455.5 | 2349.5 | 2218.3 | 2011.6 | 1500.1 | 779.2  | 23.9  |
| 27°   | 2597.3 | 2578.7 | 2550.9 | 2517.8 | 2455.5 | 2362.7 | 2243.5 | 2035.4 | 1492.1 | 720.9  | 15.9  |
| 28°   | 2619.8 | 2606.5 | 2568.1 | 2525.7 | 2451.5 | 2362.7 | 2234.2 | 2003.6 | 1468.3 | 665.2  | 9.3   |
| 29°   | 2663.5 | 2646.3 | 2598.6 | 2536.3 | 2452.8 | 2360.1 | 2198.4 | 1937.4 | 1436.4 | 602.9  | 5.3   |
| 30°   | 2743.0 | 2707.3 | 2648.9 | 2561.5 | 2462.1 | 2354.8 | 2138.8 | 1838.0 | 1411.3 | 532.7  | 1.3   |
| 31°   | 2805.3 | 2785.4 | 2717.9 | 2607.9 | 2488.6 | 2340.2 | 2068.5 | 1739.9 | 1394.0 | 471.7  | 0.0   |
| 32°   | 2822.5 | 2808.0 | 2758.9 | 2655.6 | 2533.7 | 2328.3 | 1989.0 | 1644.5 | 1380.8 | 404.2  | 0.0   |
| 33°   | 2802.7 | 2793.4 | 2741.7 | 2647.6 | 2545.6 | 2312.4 | 1897.6 | 1550.4 | 1366.2 | 343.2  | 0.0   |
| 34°   | 2765.6 | 2753.6 | 2708.6 | 2613.2 | 2515.1 | 2243.5 | 1810.1 | 1478.9 | 1345.0 | 286.2  | 0.0   |
| 35°   | 2715.2 | 2705.9 | 2659.5 | 2565.5 | 2459.5 | 2136.1 | 1722.7 | 1431.1 | 1314.5 | 229.2  | 0.0   |
| 36°   | 2660.9 | 2658.2 | 2598.6 | 2505.8 | 2387.9 | 2032.8 | 1616.7 | 1395.4 | 1284.1 | 181.5  | 0.0   |
| 37°   | 2625.1 | 2611.8 | 2546.9 | 2455.5 | 2303.1 | 1912.2 | 1531.9 | 1383.4 | 1241.7 | 140.5  | 0.0   |
| 38°   | 2560.2 | 2562.8 | 2488.6 | 2405.1 | 2217.0 | 1807.5 | 1463.0 | 1374.2 | 1193.9 | 102.0  | 0.0   |
| 39°   | 2483.3 | 2484.6 | 2407.8 | 2336.2 | 2114.9 | 1697.5 | 1406.0 | 1364.9 | 1134.3 | 64.9   | 0.0   |
| 40°   | 2422.4 | 2421.0 | 2333.6 | 2256.7 | 2004.9 | 1594.1 | 1375.5 | 1351.6 | 1068.1 | 37.1   | 0.0   |
| 42.5° | 1969.2 | 1977.1 | 1987.7 | 2019.5 | 1746.5 | 1412.6 | 1346.3 | 1277.4 | 879.9  | 0.0    | 0.0   |
| 45°   | 1284.1 | 1314.5 | 1322.5 | 1417.9 | 1416.6 | 1338.4 | 1277.4 | 1144.9 | 650.6  | 0.0    | 0.0   |
| 47.5° | 1221.8 | 1231.1 | 1248.3 | 1285.4 | 1305.3 | 1266.8 | 1142.3 | 956.7  | 355.1  | 0.0    | 0.0   |
| 50°   | 1245.6 | 1244.3 | 1248.3 | 1248.3 | 1212.5 | 1113.1 | 936.9  | 706.3  | 67.6   | 0.0    | 0.0   |
| 52.5° | 894.5  | 927.6  | 963.4  | 979.3  | 932.9  | 828.2  | 683.8  | 414.8  | 0.0    | 0.0    | 0.0   |
| 55°   | 316.7  | 306.1  | 298.2  | 326.0  | 319.4  | 359.1  | 296.8  | 96.7   | 0.0    | 0.0    | 0.0   |
| 57.5° | 0.0    | 0.0    | 0.0    | 1.3    | 5.3    | 11.9   | 15.9   | 0.0    | 0.0    | 0.0    | 0.0   |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 1.3   |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 1.3   |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 1.3    | 1.3   |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 1.3    | 1.3    | 1.3   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 1.3    | 1.3    | 1.3   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 1.3    | 1.3    | 1.3   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 1.3    | 1.3    | 1.3   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 1.3    | 1.3    | 1.3    | 2.7   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 1.3    | 1.3    | 1.3    | 2.7   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3   | 2.7 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3   | 2.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3   | 2.7 |
| 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: P1310565

CATALOG NUMBER: LDSQA3D17R509035DE010 3LSQCA30R 1MB

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|--------|-------|
| 0°    | 838.8  | 838.8 | 838.8  | 838.8 |
| 2.5°  | 671.8  | 515.5 | 417.4  | 424.0 |
| 5°    | 471.7  | 238.5 | 147.1  | 119.3 |
| 7.5°  | 282.3  | 72.9  | 14.6   | 11.9  |
| 10°   | 132.5  | 11.9  | 13.3   | 15.9  |
| 12.5° | 39.8   | 10.6  | 14.6   | 13.3  |
| 15°   | 10.6   | 11.9  | 6.6    | 4.0   |
| 17.5° | 4.0    | 5.3   | 0.0    | 0.0   |
| 20°   | 2.7    | 0.0   | 0.0    | 0.0   |
| 21°   | 2.7    | 0.0   | 0.0    | 0.0   |
| 22°   | 1.3    | 0.0   | 0.0    | 0.0   |
| 23°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 24°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 26°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 27°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 28°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 29°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 31°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 32°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 33°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 34°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 36°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 38°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 39°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 50°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 52.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 55°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 57.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 60°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 1.3    | 0.0   | 0.0    | 0.0   |
| 67.5° | 1.3    | 0.0   | 0.0    | 0.0   |
| 70°   | 1.3    | 0.0   | 0.0    | 0.0   |
| 72.5° | 1.3    | 0.0   | 0.0    | 0.0   |
| 75°   | 1.3    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.3    | 0.0   | 0.0    | 0.0   |
| 80°   | 1.3    | 1.3   | 0.0    | 0.0   |



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CATALOG NUMBER: LDSQA3D17R509035DE010 3LSQCA30R 1MB

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 1.3    | 1.3  | 0.0    | 0.0  |
| 85°   | 1.3    | 1.3  | 0.0    | 0.0  |
| 87.5° | 1.3    | 1.3  | 0.0    | 0.0  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)