

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: P1313148

Luminaire Tested: LDSQA3D02R209727DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1313148  
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: LDSQA3D02R209727DE010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

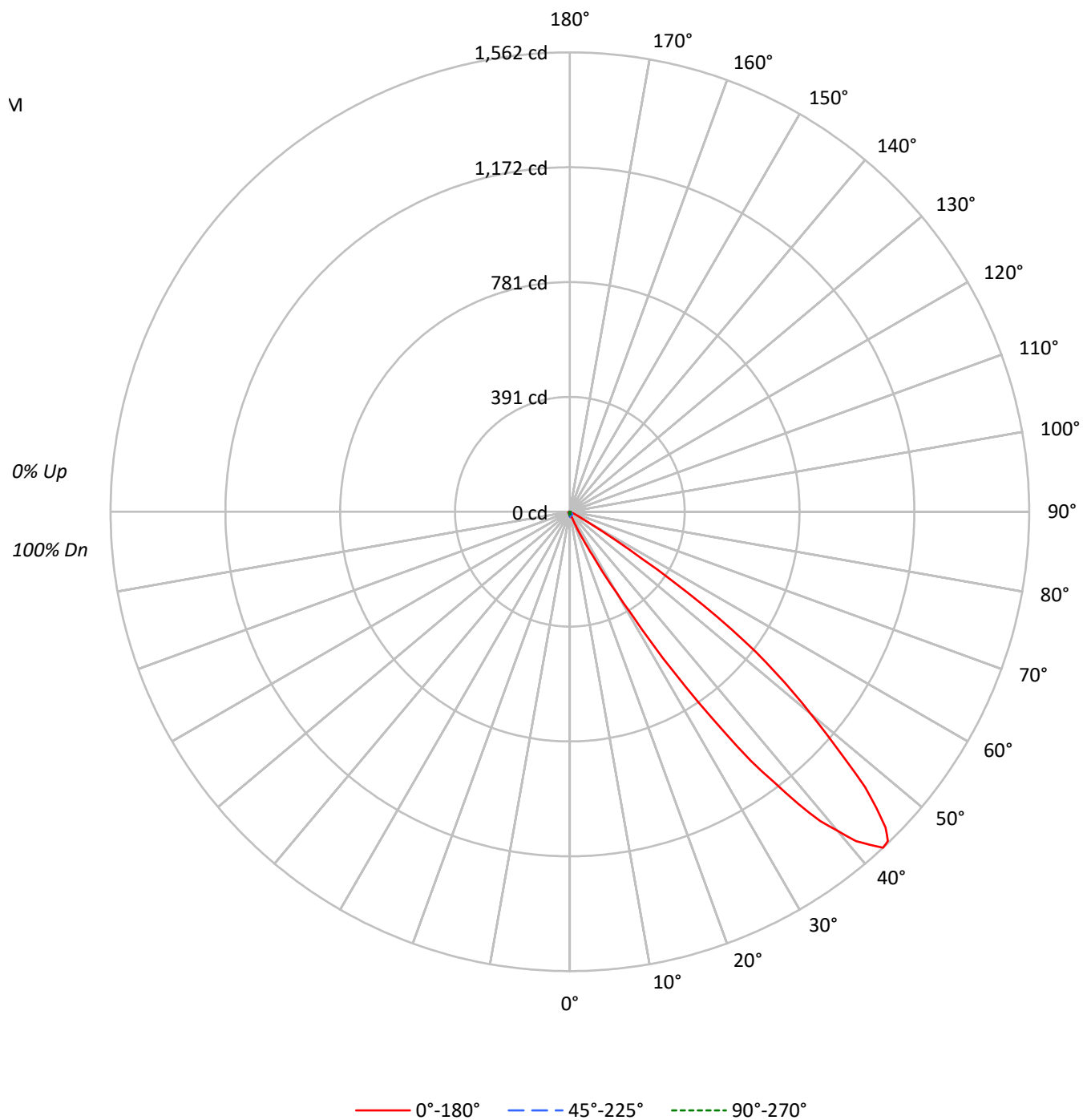
Lumens per Lamp: N/A  
Luminaire Lumens: 217.0 lumens  
Efficiency: N/A  
Efficacy: 60.3 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.52 / 1.13  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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: P1313148

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### Luminous Intensity Polar Plot



TEST NUMBER: P1313148

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 97  | 100 | 97  | 94  | 96  | 94  | 92  | 92  | 91  | 89  |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 78  | 75  |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 67  | 63  |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  | 57  | 50  | 45  | 55  | 49  | 45  |
| 6   | 68  | 55  | 45  | 39  | 66  | 54  | 45  | 38  | 52  | 44  | 38  | 50  | 43  | 38  | 48  | 42  | 37  |
| 7   | 62  | 48  | 39  | 32  | 60  | 47  | 38  | 32  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  |
| 8   | 57  | 42  | 33  | 27  | 55  | 42  | 33  | 27  | 40  | 33  | 27  | 39  | 32  | 27  | 38  | 31  | 27  |
| 9   | 52  | 38  | 29  | 23  | 51  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 23  | 34  | 27  | 23  |
| 10  | 48  | 34  | 25  | 20  | 47  | 33  | 25  | 20  | 32  | 25  | 19  | 31  | 24  | 19  | 30  | 24  | 19  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 2601   | 2601 | 2601 | 2601 | 2601 |
| 5°  | 3025   | 2818 | 2438 | 2109 | 2040 |
| 10° | 2990   | 2571 | 1924 | 1644 | 1609 |
| 15° | 2621   | 1961 | 1426 | 1302 | 1373 |
| 20° | 3885   | 1649 | 1045 | 1118 | 1228 |
| 25° | 16741  | 1710 | 817  | 1007 | 1197 |
| 30° | 63299  | 2068 | 696  | 974  | 1173 |
| 35° | 191912 | 2481 | 652  | 988  | 1240 |
| 40° | 318234 | 2473 | 540  | 1057 | 1326 |
| 45° | 369894 | 1681 | 487  | 1096 | 1437 |
| 50° | 287115 | 938  | 482  | 1152 | 1634 |
| 55° | 166194 | 601  | 480  | 1291 | 1772 |
| 60° | 28107  | 138  | 413  | 1343 | 1963 |
| 65° | 2160   | 0    | 489  | 1508 | 2241 |
| 70° | 302    | 0    | 604  | 1662 | 2568 |
| 75° | 266    | 133  | 665  | 1930 | 2994 |
| 80° | 198    | 198  | 992  | 1984 | 3471 |
| 85° | 395    | 395  | 1581 | 1976 | 3557 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 369894 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.3    | 0.6       |
| 10°-20°   | 2.7    | 1.3       |
| 20°-30°   | 8.7    | 4.0       |
| 30°-40°   | 55.3   | 25.5      |
| 40°-50°   | 101.3  | 46.7      |
| 50°-60°   | 41.6   | 19.2      |
| 60°-70°   | 3.5    | 1.6       |
| 70°-80°   | 1.7    | 0.8       |
| 80°-90°   | 0.8    | 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°    | 12.7   | 5.8       |
| 0°-40°    | 68.0   | 31.3      |
| 0°-60°    | 210.9  | 97.2      |
| 0°-90°    | 217.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 217.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 15   | 15  | 15  | 15   | 15   |      |
| 5°  | 18   | 16  | 14  | 12   | 12   | 2    |
| 15° | 15   | 11  | 8   | 7    | 8    | 5    |
| 25° | 88   | 9   | 4   | 5    | 6    | 58   |
| 35° | 913  | 12  | 3   | 5    | 6    | 578  |
| 45° | 1519 | 7   | 2   | 4    | 6    | 1090 |
| 55° | 554  | 2   | 2   | 4    | 6    | 484  |
| 65° | 5    | 0   | 1   | 4    | 6    | 17   |
| 75° | 0    | 0   | 1   | 3    | 4    | 0    |
| 85° | 0    | 0   | 1   | 1    | 2    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5° | 15°   | 17.5° | 20°   | 22.5° | 45°  |
|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|------|
| 0°    | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   | 15.1  | 15.1  | 15.1  | 15.1  | 15.1  | 15.1 |
| 2.5°  | 16.5   | 16.5   | 16.5   | 16.3   | 16.3   | 16.5  | 16.3  | 16.3  | 16.3  | 16.3  | 16.1 |
| 5°    | 17.5   | 17.5   | 17.5   | 17.5   | 17.5   | 17.5  | 17.5  | 17.3  | 17.3  | 17.1  | 16.3 |
| 7.5°  | 17.9   | 17.9   | 17.9   | 17.9   | 17.7   | 17.7  | 17.7  | 17.7  | 17.5  | 17.3  | 15.9 |
| 10°   | 17.1   | 17.1   | 17.1   | 16.9   | 16.9   | 16.9  | 16.7  | 16.7  | 16.5  | 16.3  | 14.7 |
| 12.5° | 15.5   | 15.5   | 15.5   | 15.5   | 15.3   | 15.3  | 15.1  | 15.1  | 14.9  | 14.7  | 12.8 |
| 15°   | 14.7   | 14.7   | 14.7   | 14.5   | 14.5   | 14.3  | 14.1  | 13.9  | 13.7  | 13.3  | 11.0 |
| 17.5° | 15.9   | 15.9   | 15.7   | 15.7   | 15.3   | 14.9  | 14.7  | 14.1  | 13.7  | 13.1  | 9.8  |
| 20°   | 21.2   | 21.4   | 20.6   | 20.0   | 19.6   | 18.4  | 17.7  | 16.7  | 15.9  | 14.9  | 9.0  |
| 22.5° | 42.8   | 42.0   | 40.6   | 38.3   | 35.7   | 33.4  | 29.4  | 26.1  | 23.9  | 20.8  | 8.8  |
| 25°   | 88.1   | 87.3   | 83.4   | 80.1   | 72.0   | 65.7  | 56.9  | 49.8  | 42.4  | 35.3  | 9.0  |
| 27.5° | 167.4  | 161.9  | 160.9  | 146.0  | 134.6  | 118.3 | 101.4 | 87.1  | 74.0  | 59.5  | 9.6  |
| 30°   | 318.3  | 312.0  | 289.8  | 267.4  | 236.6  | 201.7 | 168.4 | 137.4 | 111.5 | 88.1  | 10.4 |
| 31°   | 404.0  | 410.1  | 384.0  | 338.9  | 293.5  | 248.8 | 203.3 | 164.0 | 130.5 | 101.4 | 10.8 |
| 32°   | 531.0  | 504.3  | 476.8  | 430.5  | 364.4  | 307.3 | 250.2 | 193.5 | 149.5 | 115.6 | 11.2 |
| 33°   | 651.1  | 635.4  | 593.4  | 535.7  | 456.4  | 376.2 | 302.2 | 228.4 | 172.7 | 133.0 | 11.4 |
| 34°   | 779.2  | 761.9  | 727.8  | 645.0  | 557.9  | 452.9 | 354.2 | 268.6 | 200.5 | 149.9 | 11.6 |
| 35°   | 912.8  | 905.4  | 839.8  | 768.0  | 660.9  | 534.3 | 416.8 | 312.6 | 227.6 | 165.4 | 11.8 |
| 36°   | 1047.2 | 1023.5 | 972.1  | 867.3  | 755.6  | 609.5 | 482.5 | 353.6 | 255.1 | 183.7 | 11.8 |
| 37°   | 1148.3 | 1143.0 | 1074.9 | 972.7  | 841.4  | 689.9 | 539.2 | 399.1 | 282.8 | 199.4 | 11.8 |
| 38°   | 1259.9 | 1238.9 | 1169.7 | 1065.7 | 922.2  | 763.5 | 598.5 | 438.7 | 309.2 | 213.7 | 11.6 |
| 39°   | 1353.9 | 1322.7 | 1252.9 | 1150.2 | 992.7  | 819.4 | 645.6 | 477.0 | 332.4 | 225.5 | 11.4 |
| 40°   | 1415.5 | 1393.9 | 1321.1 | 1205.4 | 1056.8 | 872.2 | 693.4 | 508.6 | 349.7 | 234.5 | 11.0 |
| 41°   | 1483.4 | 1447.5 | 1375.5 | 1259.3 | 1103.3 | 918.7 | 723.3 | 529.4 | 363.2 | 240.4 | 10.6 |
| 42°   | 1524.0 | 1494.6 | 1409.1 | 1295.4 | 1136.5 | 945.2 | 747.8 | 545.3 | 371.4 | 243.5 | 9.8  |
| 43°   | 1561.9 | 1521.9 | 1438.7 | 1316.4 | 1158.5 | 964.0 | 759.0 | 552.6 | 373.2 | 243.5 | 8.8  |
| 44°   | 1556.8 | 1518.9 | 1432.6 | 1319.2 | 1163.4 | 969.5 | 763.7 | 552.9 | 370.3 | 240.4 | 7.7  |
| 45°   | 1518.7 | 1480.9 | 1403.2 | 1294.3 | 1145.9 | 958.7 | 754.3 | 544.7 | 362.4 | 235.1 | 6.9  |
| 46°   | 1448.7 | 1411.2 | 1351.6 | 1252.7 | 1113.2 | 934.2 | 732.5 | 527.0 | 349.1 | 226.6 | 6.1  |
| 47°   | 1372.6 | 1336.1 | 1275.2 | 1185.6 | 1057.6 | 890.6 | 700.9 | 502.1 | 330.6 | 214.1 | 5.5  |
| 48°   | 1262.3 | 1239.5 | 1178.3 | 1101.8 | 980.3  | 822.2 | 645.4 | 461.5 | 305.7 | 198.0 | 4.7  |
| 49°   | 1164.8 | 1140.8 | 1087.1 | 1005.0 | 879.5  | 742.7 | 579.2 | 412.1 | 273.3 | 180.1 | 4.1  |
| 50°   | 1071.6 | 1050.6 | 1001.1 | 908.3  | 788.6  | 646.7 | 489.6 | 349.9 | 232.5 | 157.8 | 3.5  |
| 51°   | 980.5  | 964.8  | 914.2  | 829.0  | 707.4  | 572.8 | 424.2 | 291.4 | 192.1 | 130.9 | 3.3  |
| 52°   | 888.9  | 887.1  | 832.2  | 746.0  | 628.5  | 499.2 | 360.5 | 245.9 | 162.9 | 109.9 | 3.1  |
| 53°   | 790.4  | 778.6  | 730.7  | 653.2  | 540.4  | 422.5 | 305.7 | 207.4 | 140.3 | 93.6  | 2.7  |
| 54°   | 678.3  | 665.0  | 613.6  | 543.7  | 441.5  | 346.1 | 246.3 | 167.6 | 116.9 | 79.1  | 2.4  |
| 55°   | 553.5  | 530.8  | 493.5  | 421.7  | 344.8  | 264.1 | 190.3 | 132.8 | 93.4  | 65.9  | 2.0  |
| 56°   | 419.9  | 397.3  | 376.2  | 323.4  | 253.1  | 197.0 | 141.7 | 101.8 | 73.0  | 52.0  | 1.8  |
| 57°   | 292.0  | 290.8  | 256.3  | 215.8  | 169.3  | 134.2 | 97.1  | 71.8  | 51.6  | 40.4  | 1.4  |
| 58°   | 189.5  | 183.1  | 161.1  | 137.7  | 110.7  | 83.8  | 62.4  | 48.7  | 35.1  | 27.5  | 1.2  |
| 59°   | 132.8  | 120.1  | 108.3  | 91.8   | 69.7   | 52.8  | 40.2  | 31.2  | 24.3  | 19.2  | 0.8  |
| 60°   | 81.6   | 78.9   | 71.0   | 55.9   | 45.3   | 37.3  | 30.0  | 23.0  | 17.7  | 13.7  | 0.4  |
| 62.5° | 23.2   | 23.7   | 21.4   | 19.0   | 16.3   | 14.1  | 12.6  | 10.8  | 9.0   | 7.1   | 0.0  |
| 65°   | 5.3    | 5.1    | 5.5    | 5.1    | 4.7    | 4.7   | 4.1   | 3.7   | 3.3   | 3.1   | 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° | 1.6 | 1.6  | 1.4 | 1.4  | 1.4 | 1.2   | 1.2 | 1.0   | 1.0 | 0.8   | 0.0 |
| 70°   | 0.6 | 0.6  | 0.6 | 0.6  | 0.6 | 0.4   | 0.4 | 0.4   | 0.2 | 0.2   | 0.0 |
| 72.5° | 0.6 | 0.6  | 0.6 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.2 | 0.2   | 0.2 |
| 75°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.2   | 0.2 | 0.2   | 0.2 |
| 77.5° | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.2   | 0.4 | 0.2   | 0.2 | 0.2   | 0.2 |
| 80°   | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 |
| 82.5° | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 |
| 85°   | 0.2 | 0.2  | 0.2 | 0.2  | 0.0 | 0.0   | 0.2 | 0.2   | 0.2 | 0.0   | 0.2 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.2 |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 15.1  | 15.1 | 15.1   | 15.1 | 15.1   | 15.1 |
| 2.5°  | 15.7  | 14.9 | 14.3   | 13.7 | 13.5   | 13.5 |
| 5°    | 15.3  | 14.1 | 12.8   | 12.2 | 11.8   | 11.8 |
| 7.5°  | 14.1  | 12.6 | 11.4   | 10.8 | 10.6   | 10.6 |
| 10°   | 12.6  | 11.0 | 9.8    | 9.4  | 9.4    | 9.2  |
| 12.5° | 11.0  | 9.4  | 8.6    | 8.4  | 8.4    | 8.4  |
| 15°   | 9.2   | 8.0  | 7.3    | 7.3  | 7.5    | 7.7  |
| 17.5° | 7.7   | 6.5  | 6.3    | 6.7  | 7.1    | 7.1  |
| 20°   | 6.5   | 5.7  | 5.7    | 6.1  | 6.5    | 6.7  |
| 22.5° | 5.5   | 4.9  | 5.1    | 5.7  | 6.3    | 6.5  |
| 25°   | 4.9   | 4.3  | 4.7    | 5.3  | 5.9    | 6.3  |
| 27.5° | 4.1   | 3.9  | 4.3    | 5.1  | 5.9    | 6.1  |
| 30°   | 3.5   | 3.5  | 4.1    | 4.9  | 5.7    | 5.9  |
| 31°   | 3.3   | 3.3  | 4.1    | 4.9  | 5.7    | 5.9  |
| 32°   | 3.1   | 3.3  | 3.9    | 4.9  | 5.7    | 5.9  |
| 33°   | 2.9   | 3.1  | 3.9    | 4.7  | 5.7    | 5.9  |
| 34°   | 2.7   | 3.1  | 3.9    | 4.7  | 5.7    | 5.9  |
| 35°   | 2.4   | 3.1  | 3.9    | 4.7  | 5.7    | 5.9  |
| 36°   | 2.2   | 2.9  | 3.7    | 4.7  | 5.7    | 5.9  |
| 37°   | 2.0   | 2.9  | 3.7    | 4.7  | 5.7    | 5.9  |
| 38°   | 1.8   | 2.7  | 3.7    | 4.7  | 5.7    | 5.9  |
| 39°   | 1.8   | 2.7  | 3.5    | 4.7  | 5.5    | 5.9  |
| 40°   | 1.6   | 2.4  | 3.5    | 4.7  | 5.5    | 5.9  |
| 41°   | 1.4   | 2.4  | 3.5    | 4.5  | 5.5    | 5.9  |
| 42°   | 1.2   | 2.2  | 3.3    | 4.5  | 5.5    | 5.9  |
| 43°   | 1.0   | 2.2  | 3.3    | 4.5  | 5.5    | 5.9  |
| 44°   | 1.0   | 2.0  | 3.3    | 4.5  | 5.5    | 5.9  |
| 45°   | 0.8   | 2.0  | 3.3    | 4.5  | 5.5    | 5.9  |
| 46°   | 0.6   | 2.0  | 3.3    | 4.5  | 5.5    | 5.9  |
| 47°   | 0.6   | 1.8  | 3.1    | 4.5  | 5.5    | 5.9  |
| 48°   | 0.4   | 1.8  | 3.1    | 4.5  | 5.5    | 5.9  |
| 49°   | 0.4   | 1.8  | 3.1    | 4.5  | 5.5    | 6.1  |
| 50°   | 0.4   | 1.8  | 3.1    | 4.3  | 5.5    | 6.1  |
| 51°   | 0.2   | 1.8  | 3.1    | 4.3  | 5.5    | 6.1  |
| 52°   | 0.2   | 1.8  | 2.9    | 4.3  | 5.7    | 6.1  |
| 53°   | 0.2   | 1.6  | 2.9    | 4.3  | 5.7    | 6.1  |
| 54°   | 0.2   | 1.6  | 2.9    | 4.3  | 5.7    | 5.9  |
| 55°   | 0.2   | 1.6  | 2.9    | 4.3  | 5.5    | 5.9  |
| 56°   | 0.2   | 1.4  | 2.9    | 4.3  | 5.5    | 5.9  |
| 57°   | 0.2   | 1.4  | 2.7    | 4.1  | 5.5    | 5.7  |
| 58°   | 0.2   | 1.4  | 2.7    | 4.1  | 5.5    | 5.7  |
| 59°   | 0.2   | 1.4  | 2.7    | 4.1  | 5.3    | 5.7  |
| 60°   | 0.4   | 1.2  | 2.4    | 3.9  | 5.3    | 5.7  |
| 62.5° | 0.4   | 1.2  | 2.4    | 3.9  | 5.1    | 5.5  |
| 65°   | 0.4   | 1.2  | 2.2    | 3.7  | 5.1    | 5.5  |



TEST NUMBER: P1313148

CATALOG NUMBER: LDSQA3D02R209727DE010 3LSQCA45R 1MMS

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.4   | 1.0 | 2.0    | 3.5  | 4.9    | 5.3  |
| 70°   | 0.4   | 1.2 | 2.0    | 3.3  | 4.7    | 5.1  |
| 72.5° | 0.6   | 1.0 | 1.8    | 3.1  | 4.5    | 4.9  |
| 75°   | 0.6   | 1.0 | 1.8    | 2.9  | 4.3    | 4.5  |
| 77.5° | 0.8   | 1.0 | 1.6    | 2.4  | 3.9    | 4.1  |
| 80°   | 0.8   | 1.0 | 1.4    | 2.0  | 3.3    | 3.5  |
| 82.5° | 0.8   | 1.0 | 1.0    | 1.6  | 2.4    | 2.7  |
| 85°   | 0.6   | 0.8 | 0.8    | 1.0  | 1.6    | 1.8  |
| 87.5° | 0.6   | 0.8 | 0.6    | 0.4  | 0.8    | 0.8  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)