

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: P1307105

Luminaire Tested: LDSQA3D13R159024DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307105  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R159024DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 2400K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

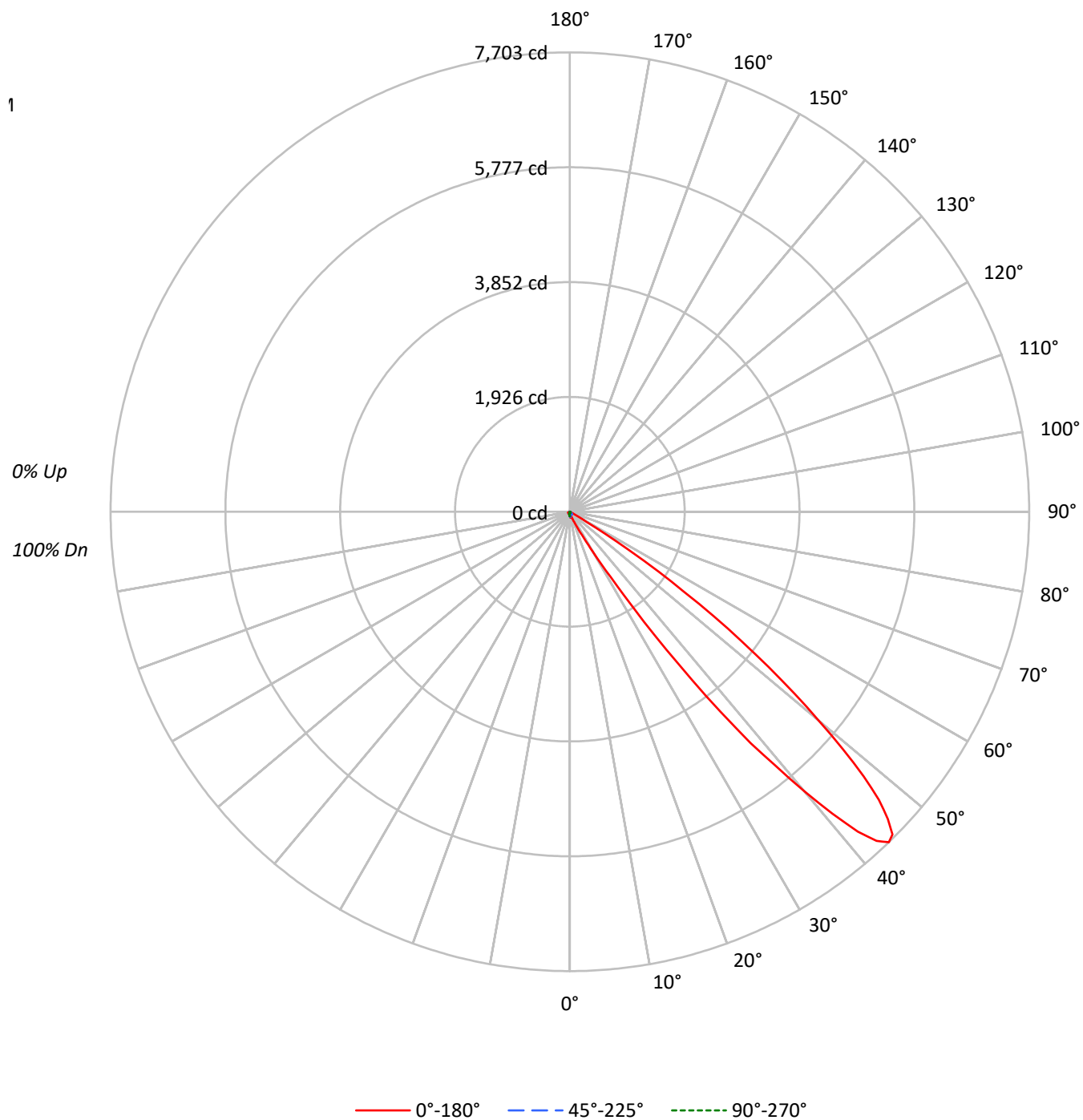
Lumens per Lamp: N/A  
Luminaire Lumens: 860.0 lumens  
Efficiency: N/A  
Efficacy: 58.9 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

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### Luminous Intensity Polar Plot



TEST NUMBER: P1307105

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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  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 87  |    |    |
| 2   | 101 | 93  | 87  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 73  |    |    |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |    |    |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  | 64  | 58  | 53  | 62  | 57  | 53  | 50  |    |    |
| 5   | 75  | 62  | 52  | 46  | 73  | 61  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 55  | 49  | 44  | 42  |    |    |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  | 49  | 42  | 37  | 48  | 42  | 37  | 35  |    |    |
| 7   | 62  | 47  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 31  | 44  | 36  | 31  | 42  | 36  | 31  | 29  |    |    |
| 8   | 56  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 26  | 39  | 31  | 26  | 37  | 31  | 26  | 24  |    |    |
| 9   | 52  | 37  | 28  | 22  | 50  | 37  | 28  | 22  | 35  | 28  | 22  | 34  | 27  | 22  | 33  | 27  | 22  | 20  |    |    |
| 10  | 48  | 33  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 24  | 19  | 31  | 24  | 19  | 30  | 23  | 19  | 17  |    |    |

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

|     | 0°      | 45°   | 90°   | 135°  | 180°  |
|-----|---------|-------|-------|-------|-------|
| 0°  | 13141   | 13141 | 13141 | 13141 | 13141 |
| 5°  | 16303   | 14522 | 11860 | 10373 | 10235 |
| 10° | 16054   | 12451 | 9146  | 8097  | 8254  |
| 15° | 13301   | 8861  | 6579  | 6722  | 7185  |
| 20° | 23111   | 7074  | 5022  | 5810  | 6598  |
| 25° | 51497   | 8475  | 4067  | 5378  | 6195  |
| 30° | 153982  | 10401 | 3580  | 5290  | 6483  |
| 35° | 592786  | 11711 | 3238  | 5403  | 6854  |
| 40° | 1375903 | 10207 | 3080  | 5598  | 7329  |
| 45° | 1863596 | 7721  | 2704  | 6065  | 7940  |
| 50° | 1461215 | 4608  | 2760  | 6430  | 8735  |
| 55° | 701350  | 2072  | 2582  | 6966  | 9518  |
| 60° | 64101   | 310   | 2377  | 7371  | 10643 |
| 65° | 7009    | 0     | 2078  | 7702  | 11533 |
| 70° | 1712    | 0     | 2568  | 8208  | 12538 |
| 75° | 1730    | 599   | 3394  | 9116  | 14240 |
| 80° | 1686    | 1686  | 4265  | 9323  | 15274 |
| 85° | 1778    | 1778  | 6719  | 8497  | 16994 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1863596 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 6.5    | 0.8       |
| 10°-20°   | 13.6   | 1.6       |
| 20°-30°   | 32.5   | 3.8       |
| 30°-40°   | 177.9  | 20.7      |
| 40°-50°   | 430.8  | 50.1      |
| 50°-60°   | 171.9  | 20.0      |
| 60°-70°   | 14.8   | 1.7       |
| 70°-80°   | 8.4    | 1.0       |
| 80°-90°   | 3.7    | 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°    | 52.6   | 6.1       |
| 0°-40°    | 230.5  | 26.8      |
| 0°-60°    | 833.1  | 96.9      |
| 0°-90°    | 860.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 860.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 76   | 76  | 76  | 76   | 76   |      |
| 5°  | 94   | 84  | 69  | 60   | 59   | 9    |
| 15° | 75   | 50  | 37  | 38   | 40   | 26   |
| 25° | 271  | 45  | 21  | 28   | 33   | 163  |
| 35° | 2820 | 56  | 15  | 26   | 33   | 1992 |
| 45° | 7652 | 32  | 11  | 25   | 33   | 5398 |
| 55° | 2336 | 7   | 9   | 23   | 32   | 2176 |
| 65° | 17   | 0   | 5   | 19   | 28   | 44   |
| 75° | 3    | 1   | 5   | 14   | 21   | 2    |
| 85° | 1    | 1   | 3   | 4    | 9    | 1    |
| 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°    | 76.3   | 76.3   | 76.3   | 76.3   | 76.3   | 76.3   | 76.3   | 76.3   | 76.3   | 76.3  | 76.3 |
| 2.5°  | 85.8   | 85.8   | 86.6   | 85.8   | 85.8   | 85.8   | 85.8   | 84.9   | 84.9   | 84.9  | 82.3 |
| 5°    | 94.3   | 94.3   | 94.3   | 94.3   | 93.5   | 93.5   | 93.5   | 92.6   | 92.6   | 91.8  | 84.0 |
| 7.5°  | 97.8   | 97.8   | 96.9   | 96.9   | 96.0   | 96.0   | 95.2   | 94.3   | 93.5   | 92.6  | 80.6 |
| 10°   | 91.8   | 91.8   | 91.8   | 90.9   | 90.9   | 90.0   | 89.2   | 88.3   | 87.5   | 85.8  | 71.2 |
| 12.5° | 81.5   | 81.5   | 82.3   | 81.5   | 80.6   | 79.7   | 78.0   | 77.2   | 76.3   | 74.6  | 59.2 |
| 15°   | 74.6   | 74.6   | 74.6   | 73.7   | 72.9   | 71.2   | 70.3   | 68.6   | 67.7   | 65.2  | 49.7 |
| 17.5° | 95.2   | 95.2   | 94.3   | 92.6   | 89.2   | 86.6   | 82.3   | 78.9   | 74.6   | 69.5  | 42.9 |
| 20°   | 126.1  | 126.1  | 124.3  | 122.6  | 118.3  | 114.0  | 107.2  | 101.2  | 94.3   | 88.3  | 38.6 |
| 22.5° | 182.6  | 185.2  | 180.1  | 174.1  | 168.1  | 157.8  | 148.3  | 138.9  | 126.9  | 116.6 | 39.4 |
| 25°   | 271.0  | 273.5  | 271.0  | 257.3  | 246.1  | 232.4  | 214.4  | 195.5  | 174.9  | 156.1 | 44.6 |
| 27.5° | 439.0  | 440.8  | 436.5  | 403.0  | 385.0  | 349.0  | 317.3  | 286.4  | 252.1  | 217.8 | 48.9 |
| 30°   | 774.3  | 775.2  | 747.7  | 680.9  | 621.7  | 542.8  | 475.9  | 411.6  | 357.6  | 302.7 | 52.3 |
| 31°   | 1019.6 | 995.6  | 937.2  | 856.6  | 762.3  | 656.0  | 564.2  | 481.1  | 400.5  | 341.3 | 53.2 |
| 32°   | 1294.8 | 1291.4 | 1194.5 | 1054.7 | 928.7  | 795.8  | 657.7  | 551.4  | 458.8  | 378.2 | 54.0 |
| 33°   | 1659.3 | 1661.0 | 1508.3 | 1343.7 | 1137.0 | 958.7  | 777.8  | 632.0  | 520.5  | 421.9 | 55.7 |
| 34°   | 2228.6 | 2094.9 | 1915.7 | 1692.7 | 1411.4 | 1143.0 | 908.1  | 725.4  | 576.2  | 463.9 | 55.7 |
| 35°   | 2819.5 | 2684.8 | 2487.6 | 2149.8 | 1763.9 | 1388.3 | 1063.3 | 825.8  | 643.1  | 509.4 | 55.7 |
| 36°   | 3481.5 | 3367.4 | 3069.0 | 2637.7 | 2145.5 | 1619.8 | 1227.9 | 941.5  | 709.2  | 550.5 | 54.9 |
| 37°   | 4196.6 | 4029.4 | 3698.4 | 3227.6 | 2569.1 | 1945.7 | 1428.6 | 1056.4 | 775.2  | 595.1 | 53.2 |
| 38°   | 4922.9 | 4772.0 | 4354.4 | 3784.2 | 3075.0 | 2289.5 | 1629.3 | 1167.1 | 836.1  | 628.5 | 50.6 |
| 39°   | 5473.4 | 5391.1 | 4976.9 | 4339.8 | 3478.9 | 2615.4 | 1835.9 | 1285.4 | 900.4  | 662.0 | 48.0 |
| 40°   | 6120.0 | 5987.1 | 5594.3 | 4806.3 | 3956.5 | 2947.2 | 2038.3 | 1390.0 | 953.5  | 688.6 | 45.4 |
| 41°   | 6709.9 | 6541.9 | 6046.2 | 5284.8 | 4339.0 | 3245.6 | 2230.4 | 1498.1 | 996.4  | 704.0 | 43.7 |
| 42°   | 7215.9 | 7020.4 | 6502.4 | 5694.7 | 4658.8 | 3484.0 | 2383.9 | 1575.2 | 1036.7 | 716.9 | 41.2 |
| 43°   | 7543.4 | 7374.5 | 6865.2 | 6002.5 | 4932.3 | 3702.7 | 2527.1 | 1655.8 | 1061.6 | 725.4 | 37.7 |
| 44°   | 7702.9 | 7532.3 | 7039.2 | 6195.4 | 5100.4 | 3833.9 | 2619.7 | 1711.6 | 1089.0 | 736.6 | 35.2 |
| 45°   | 7651.5 | 7478.3 | 7001.5 | 6198.9 | 5152.7 | 3881.0 | 2659.1 | 1736.4 | 1103.6 | 746.9 | 31.7 |
| 46°   | 7415.7 | 7293.9 | 6813.7 | 6037.7 | 5053.3 | 3830.5 | 2636.8 | 1717.6 | 1098.5 | 746.9 | 28.3 |
| 47°   | 7084.7 | 6945.8 | 6488.7 | 5760.7 | 4812.3 | 3700.1 | 2546.8 | 1660.1 | 1066.7 | 729.7 | 24.9 |
| 48°   | 6633.6 | 6515.3 | 6035.1 | 5320.8 | 4442.7 | 3416.3 | 2343.5 | 1566.7 | 1017.0 | 696.3 | 21.4 |
| 49°   | 6067.7 | 5903.0 | 5456.3 | 4758.3 | 3960.8 | 3013.3 | 2076.9 | 1408.9 | 937.2  | 649.1 | 18.9 |
| 50°   | 5453.7 | 5250.5 | 4905.8 | 4194.9 | 3462.6 | 2583.7 | 1726.1 | 1191.1 | 824.9  | 587.4 | 17.2 |
| 51°   | 4852.6 | 4645.9 | 4317.5 | 3713.0 | 2930.9 | 2143.8 | 1392.6 | 951.0  | 679.1  | 502.5 | 14.6 |
| 52°   | 4229.2 | 4056.0 | 3688.1 | 3213.1 | 2509.0 | 1737.3 | 1160.2 | 804.3  | 564.2  | 421.9 | 12.0 |
| 53°   | 3608.4 | 3490.0 | 3140.2 | 2659.1 | 2016.0 | 1419.2 | 947.5  | 688.6  | 492.2  | 361.0 | 9.4  |
| 54°   | 2986.7 | 2857.2 | 2591.4 | 2162.6 | 1625.0 | 1119.9 | 803.5  | 576.2  | 427.0  | 314.7 | 8.6  |
| 55°   | 2335.8 | 2268.9 | 2023.7 | 1649.0 | 1231.4 | 893.5  | 651.7  | 495.6  | 357.6  | 263.3 | 6.9  |
| 56°   | 1799.0 | 1723.6 | 1499.8 | 1196.2 | 915.0  | 699.7  | 527.4  | 404.7  | 302.7  | 220.4 | 5.1  |
| 57°   | 1178.2 | 1101.0 | 952.7  | 835.2  | 666.3  | 510.2  | 403.0  | 319.0  | 246.1  | 182.6 | 4.3  |
| 58°   | 696.3  | 626.0  | 602.8  | 514.5  | 444.2  | 346.4  | 297.6  | 237.5  | 181.8  | 144.1 | 2.6  |
| 59°   | 319.8  | 325.0  | 289.0  | 271.0  | 246.1  | 220.4  | 180.9  | 158.6  | 124.3  | 103.8 | 1.7  |
| 60°   | 186.1  | 175.8  | 171.5  | 153.5  | 136.3  | 120.9  | 108.9  | 96.0   | 78.0   | 66.9  | 0.9  |
| 62.5° | 63.5   | 60.9   | 62.6   | 56.6   | 53.2   | 51.5   | 47.2   | 40.3   | 33.4   | 27.4  | 0.0  |
| 65°   | 17.2   | 17.2   | 16.3   | 15.4   | 14.6   | 13.7   | 12.9   | 11.1   | 10.3   | 8.6   | 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° | 6.0 | 6.0  | 5.1 | 5.1  | 4.3 | 4.3   | 3.4 | 3.4   | 2.6 | 2.6   | 0.0 |
| 70°   | 3.4 | 3.4  | 3.4 | 2.6  | 2.6 | 2.6   | 1.7 | 1.7   | 1.7 | 0.9   | 0.0 |
| 72.5° | 2.6 | 2.6  | 2.6 | 2.6  | 2.6 | 2.6   | 1.7 | 1.7   | 1.7 | 0.9   | 0.9 |
| 75°   | 2.6 | 2.6  | 2.6 | 1.7  | 1.7 | 1.7   | 1.7 | 1.7   | 1.7 | 1.7   | 0.9 |
| 77.5° | 1.7 | 1.7  | 1.7 | 1.7  | 1.7 | 1.7   | 1.7 | 1.7   | 1.7 | 1.7   | 1.7 |
| 80°   | 1.7 | 1.7  | 1.7 | 1.7  | 1.7 | 1.7   | 1.7 | 1.7   | 1.7 | 0.9   | 1.7 |
| 82.5° | 0.9 | 0.9  | 0.9 | 0.9  | 0.9 | 0.9   | 0.9 | 0.9   | 0.9 | 0.9   | 1.7 |
| 85°   | 0.9 | 0.9  | 0.9 | 0.9  | 0.9 | 0.9   | 0.9 | 0.9   | 0.9 | 0.9   | 0.9 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.9 |
| 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°    | 76.3  | 76.3 | 76.3   | 76.3 | 76.3   | 76.3 |
| 2.5°  | 78.9  | 75.5 | 71.2   | 68.6 | 67.7   | 66.9 |
| 5°    | 75.5  | 68.6 | 63.5   | 60.0 | 59.2   | 59.2 |
| 7.5°  | 67.7  | 60.0 | 54.9   | 53.2 | 52.3   | 52.3 |
| 10°   | 59.2  | 52.3 | 48.0   | 46.3 | 47.2   | 47.2 |
| 12.5° | 49.7  | 43.7 | 42.0   | 42.0 | 42.9   | 43.7 |
| 15°   | 40.3  | 36.9 | 36.9   | 37.7 | 39.4   | 40.3 |
| 17.5° | 33.4  | 31.7 | 32.6   | 34.3 | 36.0   | 37.7 |
| 20°   | 27.4  | 27.4 | 29.2   | 31.7 | 34.3   | 36.0 |
| 22.5° | 23.2  | 24.0 | 26.6   | 29.2 | 32.6   | 34.3 |
| 25°   | 19.7  | 21.4 | 24.0   | 28.3 | 31.7   | 32.6 |
| 27.5° | 17.2  | 19.7 | 23.2   | 27.4 | 30.9   | 32.6 |
| 30°   | 14.6  | 18.0 | 22.3   | 26.6 | 30.9   | 32.6 |
| 31°   | 13.7  | 17.2 | 21.4   | 26.6 | 30.9   | 32.6 |
| 32°   | 12.9  | 17.2 | 21.4   | 26.6 | 30.9   | 32.6 |
| 33°   | 12.0  | 16.3 | 21.4   | 25.7 | 30.9   | 32.6 |
| 34°   | 11.1  | 16.3 | 21.4   | 26.6 | 30.9   | 32.6 |
| 35°   | 10.3  | 15.4 | 20.6   | 25.7 | 30.0   | 32.6 |
| 36°   | 9.4   | 15.4 | 20.6   | 25.7 | 30.9   | 32.6 |
| 37°   | 8.6   | 15.4 | 20.6   | 25.7 | 30.0   | 32.6 |
| 38°   | 8.6   | 14.6 | 19.7   | 25.7 | 30.0   | 32.6 |
| 39°   | 7.7   | 13.7 | 19.7   | 25.7 | 30.0   | 32.6 |
| 40°   | 6.9   | 13.7 | 18.9   | 24.9 | 30.0   | 32.6 |
| 41°   | 6.0   | 12.9 | 18.9   | 24.9 | 30.0   | 32.6 |
| 42°   | 5.1   | 12.9 | 18.9   | 24.9 | 30.0   | 32.6 |
| 43°   | 4.3   | 12.0 | 18.0   | 24.9 | 30.0   | 32.6 |
| 44°   | 4.3   | 12.0 | 18.0   | 24.9 | 30.0   | 32.6 |
| 45°   | 3.4   | 11.1 | 17.2   | 24.9 | 30.0   | 32.6 |
| 46°   | 3.4   | 11.1 | 17.2   | 24.0 | 30.0   | 32.6 |
| 47°   | 2.6   | 11.1 | 17.2   | 24.0 | 30.0   | 32.6 |
| 48°   | 2.6   | 10.3 | 17.2   | 24.0 | 30.0   | 32.6 |
| 49°   | 1.7   | 10.3 | 17.2   | 24.0 | 30.0   | 32.6 |
| 50°   | 1.7   | 10.3 | 16.3   | 24.0 | 30.0   | 32.6 |
| 51°   | 1.7   | 10.3 | 16.3   | 24.0 | 30.0   | 32.6 |
| 52°   | 1.7   | 9.4  | 16.3   | 24.0 | 30.0   | 32.6 |
| 53°   | 1.7   | 9.4  | 16.3   | 24.0 | 30.0   | 32.6 |
| 54°   | 1.7   | 9.4  | 15.4   | 24.0 | 30.0   | 32.6 |
| 55°   | 1.7   | 8.6  | 15.4   | 23.2 | 30.0   | 31.7 |
| 56°   | 1.7   | 8.6  | 15.4   | 23.2 | 30.0   | 31.7 |
| 57°   | 1.7   | 8.6  | 14.6   | 23.2 | 30.0   | 31.7 |
| 58°   | 1.7   | 7.7  | 14.6   | 22.3 | 29.2   | 31.7 |
| 59°   | 1.7   | 7.7  | 13.7   | 22.3 | 29.2   | 30.9 |
| 60°   | 1.7   | 6.9  | 13.7   | 21.4 | 28.3   | 30.9 |
| 62.5° | 1.7   | 6.0  | 12.0   | 20.6 | 27.4   | 29.2 |
| 65°   | 1.7   | 5.1  | 11.1   | 18.9 | 26.6   | 28.3 |



TEST NUMBER: P1307105

CATALOG NUMBER: LDSQA3D13R159024DE010 3LSQCA45R 1MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 1.7   | 5.1 | 10.3   | 18.0 | 24.9   | 27.4 |
| 70°   | 1.7   | 5.1 | 9.4    | 16.3 | 24.0   | 24.9 |
| 72.5° | 2.6   | 5.1 | 8.6    | 15.4 | 22.3   | 23.2 |
| 75°   | 3.4   | 5.1 | 7.7    | 13.7 | 20.6   | 21.4 |
| 77.5° | 3.4   | 5.1 | 6.9    | 12.0 | 18.0   | 18.9 |
| 80°   | 3.4   | 4.3 | 6.0    | 9.4  | 14.6   | 15.4 |
| 82.5° | 3.4   | 4.3 | 4.3    | 7.7  | 11.1   | 12.0 |
| 85°   | 2.6   | 3.4 | 3.4    | 4.3  | 7.7    | 8.6  |
| 87.5° | 2.6   | 3.4 | 1.7    | 2.6  | 3.4    | 3.4  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)