

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: P1319781

Luminaire Tested: LDSQA3D05R209840DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319781  
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: LDSQA3D05R209840DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

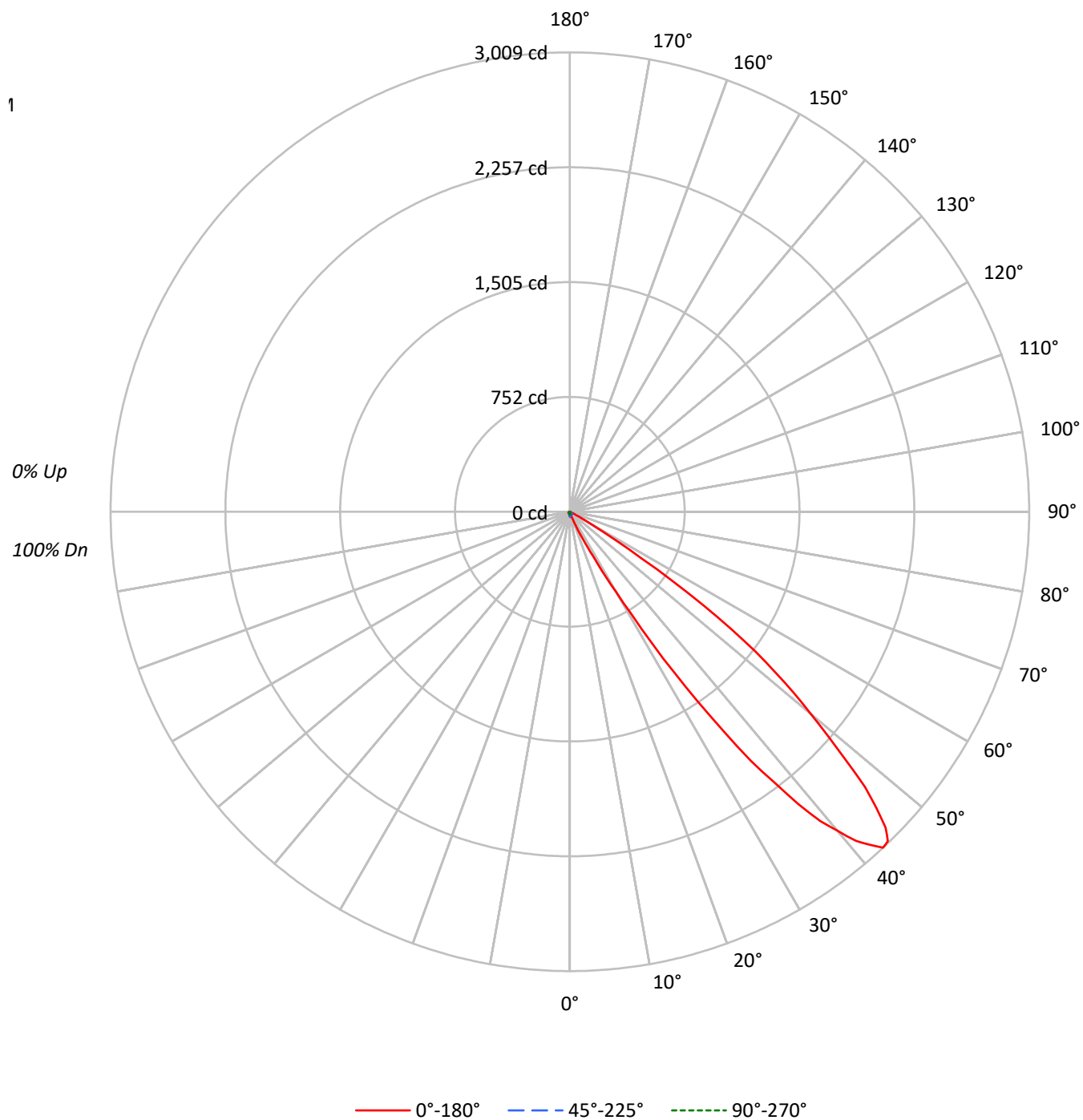
Lumens per Lamp: N/A  
Luminaire Lumens: 418.0 lumens  
Efficiency: N/A  
Efficacy: 58.1 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

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### Luminous Intensity Polar Plot



TEST NUMBER: P1319781

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

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 5012   | 5012 | 5012 | 5012 | 5012 |
| 5°  | 5843   | 5428 | 4685 | 4080 | 3942 |
| 10° | 5771   | 4949 | 3707 | 3165 | 3095 |
| 15° | 5046   | 3780 | 2728 | 2514 | 2657 |
| 20° | 7496   | 3171 | 2016 | 2163 | 2383 |
| 25° | 32248  | 3287 | 1558 | 1938 | 2318 |
| 30° | 121944 | 3977 | 1332 | 1869 | 2267 |
| 35° | 369674 | 4794 | 1240 | 1892 | 2397 |
| 40° | 612996 | 4766 | 1057 | 2023 | 2563 |
| 45° | 712485 | 3264 | 950  | 2095 | 2777 |
| 50° | 553090 | 1795 | 938  | 2197 | 3162 |
| 55° | 320108 | 1171 | 931  | 2462 | 3423 |
| 60° | 54112  | 276  | 827  | 2583 | 3789 |
| 65° | 4157   | 0    | 978  | 2893 | 4320 |
| 70° | 604    | 0    | 1209 | 3172 | 4935 |
| 75° | 532    | 266  | 1331 | 3660 | 5723 |
| 80° | 397    | 397  | 1984 | 3868 | 6645 |
| 85° | 790    | 790  | 3162 | 3952 | 6916 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 712485 cd/sqm

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CATALOG NUMBER: LDSQA3D05R209840DE010 3LSQCA45R 1MW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.5    | 0.6       |
| 10°-20°   | 5.2    | 1.3       |
| 20°-30°   | 16.7   | 4.0       |
| 30°-40°   | 106.6  | 25.5      |
| 40°-50°   | 195.1  | 46.7      |
| 50°-60°   | 80.2   | 19.2      |
| 60°-70°   | 6.8    | 1.6       |
| 70°-80°   | 3.4    | 0.8       |
| 80°-90°   | 1.6    | 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°    | 24.4   | 5.8       |
| 0°-40°    | 131.0  | 31.3      |
| 0°-60°    | 406.3  | 97.2      |
| 0°-90°    | 418.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 418.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 29   | 29  | 29  | 29   | 29   |      |
| 5°  | 34   | 31  | 27  | 24   | 23   | 3    |
| 15° | 28   | 21  | 15  | 14   | 15   | 9    |
| 25° | 170  | 17  | 8   | 10   | 12   | 112  |
| 35° | 1758 | 23  | 6   | 9    | 11   | 1113 |
| 45° | 2925 | 13  | 4   | 9    | 11   | 2100 |
| 55° | 1066 | 4   | 3   | 8    | 11   | 932  |
| 65° | 10   | 0   | 2   | 7    | 11   | 33   |
| 75° | 1    | 0   | 2   | 6    | 9    | 1    |
| 85° | 0    | 0   | 2   | 2    | 4    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1319781

CATALOG NUMBER: LDSQA3D05R209840DE010 3LSQCA45R 1MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°   | 22.5° | 45°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------|
| 0°    | 29.1   | 29.1   | 29.1   | 29.1   | 29.1   | 29.1   | 29.1   | 29.1   | 29.1  | 29.1  | 29.1 |
| 2.5°  | 31.8   | 31.8   | 31.8   | 31.4   | 31.4   | 31.8   | 31.4   | 31.4   | 31.4  | 31.4  | 31.0 |
| 5°    | 33.8   | 33.8   | 33.8   | 33.8   | 33.8   | 33.8   | 33.8   | 33.4   | 33.4  | 33.0  | 31.4 |
| 7.5°  | 34.6   | 34.6   | 34.6   | 34.6   | 34.2   | 34.2   | 34.2   | 34.2   | 33.8  | 33.4  | 30.6 |
| 10°   | 33.0   | 33.0   | 33.0   | 32.6   | 32.6   | 32.6   | 32.2   | 32.2   | 31.8  | 31.4  | 28.3 |
| 12.5° | 29.9   | 29.9   | 29.9   | 29.9   | 29.5   | 29.5   | 29.1   | 29.1   | 28.7  | 28.3  | 24.7 |
| 15°   | 28.3   | 28.3   | 28.3   | 27.9   | 27.9   | 27.5   | 27.1   | 26.7   | 26.3  | 25.5  | 21.2 |
| 17.5° | 30.6   | 30.6   | 30.2   | 30.2   | 29.5   | 28.7   | 28.3   | 27.1   | 26.3  | 25.1  | 18.9 |
| 20°   | 40.9   | 41.2   | 39.7   | 38.5   | 37.7   | 35.4   | 34.2   | 32.2   | 30.6  | 28.7  | 17.3 |
| 22.5° | 82.5   | 80.9   | 78.2   | 73.9   | 68.7   | 64.4   | 56.6   | 50.3   | 46.0  | 40.1  | 16.9 |
| 25°   | 169.7  | 168.1  | 160.7  | 154.4  | 138.7  | 126.5  | 109.6  | 95.8   | 81.7  | 68.0  | 17.3 |
| 27.5° | 322.5  | 311.9  | 309.9  | 281.3  | 259.3  | 227.8  | 195.2  | 167.7  | 142.6 | 114.7 | 18.5 |
| 30°   | 613.2  | 601.0  | 558.2  | 515.0  | 455.7  | 388.5  | 324.5  | 264.8  | 214.9 | 169.7 | 20.0 |
| 31°   | 778.2  | 790.0  | 739.7  | 652.9  | 565.3  | 479.2  | 391.6  | 315.8  | 251.4 | 195.2 | 20.8 |
| 32°   | 1022.9 | 971.4  | 918.4  | 829.2  | 702.0  | 592.0  | 482.0  | 372.8  | 287.9 | 222.7 | 21.6 |
| 33°   | 1254.3 | 1224.0 | 1143.1 | 1031.9 | 879.1  | 724.8  | 582.2  | 440.0  | 332.7 | 256.1 | 22.0 |
| 34°   | 1501.0 | 1467.6 | 1402.0 | 1242.5 | 1074.8 | 872.5  | 682.3  | 517.3  | 386.1 | 288.7 | 22.4 |
| 35°   | 1758.3 | 1744.1 | 1617.6 | 1479.4 | 1273.1 | 1029.2 | 802.9  | 602.2  | 438.4 | 318.6 | 22.8 |
| 36°   | 2017.1 | 1971.6 | 1872.6 | 1670.7 | 1455.4 | 1174.1 | 929.4  | 681.2  | 491.4 | 353.9 | 22.8 |
| 37°   | 2212.0 | 2201.8 | 2070.6 | 1873.8 | 1620.8 | 1328.9 | 1038.6 | 768.8  | 544.8 | 384.2 | 22.8 |
| 38°   | 2426.9 | 2386.4 | 2253.2 | 2052.9 | 1776.3 | 1470.7 | 1152.9 | 845.0  | 595.5 | 411.7 | 22.4 |
| 39°   | 2607.9 | 2547.8 | 2413.5 | 2215.5 | 1912.3 | 1578.4 | 1243.7 | 918.8  | 640.3 | 434.5 | 22.0 |
| 40°   | 2726.6 | 2684.9 | 2544.7 | 2322.0 | 2035.6 | 1680.1 | 1335.6 | 979.7  | 673.7 | 451.7 | 21.2 |
| 41°   | 2857.4 | 2788.2 | 2649.6 | 2425.7 | 2125.2 | 1769.7 | 1393.3 | 1019.8 | 699.6 | 463.1 | 20.4 |
| 42°   | 2935.6 | 2879.0 | 2714.4 | 2495.2 | 2189.2 | 1820.7 | 1440.5 | 1050.4 | 715.3 | 469.0 | 18.9 |
| 43°   | 3008.6 | 2931.6 | 2771.4 | 2535.7 | 2231.6 | 1856.9 | 1462.1 | 1064.5 | 718.9 | 469.0 | 16.9 |
| 44°   | 2998.8 | 2925.7 | 2759.6 | 2541.2 | 2241.0 | 1867.5 | 1471.1 | 1064.9 | 713.4 | 463.1 | 14.9 |
| 45°   | 2925.3 | 2852.7 | 2703.0 | 2493.2 | 2207.3 | 1846.7 | 1453.0 | 1049.2 | 698.0 | 452.9 | 13.4 |
| 46°   | 2790.6 | 2718.3 | 2603.6 | 2413.1 | 2144.4 | 1799.5 | 1411.0 | 1015.1 | 672.5 | 436.4 | 11.8 |
| 47°   | 2644.1 | 2573.8 | 2456.3 | 2283.9 | 2037.2 | 1715.5 | 1350.1 | 967.1  | 636.8 | 412.5 | 10.6 |
| 48°   | 2431.6 | 2387.6 | 2269.7 | 2122.4 | 1888.3 | 1583.9 | 1243.3 | 889.0  | 588.8 | 381.4 | 9.0  |
| 49°   | 2243.8 | 2197.4 | 2094.1 | 1935.8 | 1694.2 | 1430.7 | 1115.6 | 793.9  | 526.4 | 346.9 | 7.9  |
| 50°   | 2064.3 | 2023.8 | 1928.4 | 1749.6 | 1519.0 | 1245.6 | 943.2  | 674.1  | 447.8 | 304.0 | 6.7  |
| 51°   | 1888.7 | 1858.4 | 1761.0 | 1596.8 | 1362.7 | 1103.4 | 817.1  | 561.3  | 370.0 | 252.2 | 6.3  |
| 52°   | 1712.3 | 1708.8 | 1603.1 | 1436.9 | 1210.7 | 961.6  | 694.5  | 473.7  | 313.9 | 211.7 | 5.9  |
| 53°   | 1522.6 | 1499.8 | 1407.5 | 1258.2 | 1041.0 | 813.9  | 588.8  | 399.5  | 270.3 | 180.3 | 5.1  |
| 54°   | 1306.5 | 1281.0 | 1182.0 | 1047.3 | 850.5  | 666.6  | 474.5  | 322.9  | 225.1 | 152.4 | 4.7  |
| 55°   | 1066.1 | 1022.5 | 950.6  | 812.4  | 664.3  | 508.7  | 366.5  | 255.7  | 179.9 | 126.9 | 3.9  |
| 56°   | 808.8  | 765.2  | 724.8  | 623.0  | 487.5  | 379.5  | 273.0  | 196.0  | 140.6 | 100.2 | 3.5  |
| 57°   | 562.5  | 560.2  | 493.8  | 415.6  | 326.0  | 258.5  | 187.0  | 138.3  | 99.4  | 77.8  | 2.7  |
| 58°   | 364.9  | 352.8  | 310.3  | 265.2  | 213.3  | 161.4  | 120.2  | 93.9   | 67.6  | 53.0  | 2.4  |
| 59°   | 255.7  | 231.4  | 208.6  | 176.8  | 134.3  | 101.7  | 77.4   | 60.1   | 46.7  | 36.9  | 1.6  |
| 60°   | 157.1  | 152.0  | 136.7  | 107.6  | 87.2   | 71.9   | 57.7   | 44.4   | 34.2  | 26.3  | 0.8  |
| 62.5° | 44.8   | 45.6   | 41.2   | 36.5   | 31.4   | 27.1   | 24.4   | 20.8   | 17.3  | 13.7  | 0.0  |
| 65°   | 10.2   | 9.8    | 10.6   | 9.8    | 9.0    | 9.0    | 7.9    | 7.1    | 6.3   | 5.9   | 0.0  |



TEST NUMBER: P1319781

CATALOG NUMBER: LDSQA3D05R209840DE010 3LSQCA45R 1MW

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 67.5° | 3.1 | 3.1  | 2.7 | 2.7  | 2.7 | 2.4   | 2.4 | 2.0   | 2.0 | 1.6   | 0.0 |
| 70°   | 1.2 | 1.2  | 1.2 | 1.2  | 1.2 | 0.8   | 0.8 | 0.8   | 0.4 | 0.4   | 0.0 |
| 72.5° | 1.2 | 1.2  | 1.2 | 0.8  | 0.8 | 0.8   | 0.8 | 0.8   | 0.4 | 0.4   | 0.4 |
| 75°   | 0.8 | 0.8  | 0.8 | 0.8  | 0.8 | 0.8   | 0.8 | 0.4   | 0.4 | 0.4   | 0.4 |
| 77.5° | 0.8 | 0.8  | 0.8 | 0.8  | 0.8 | 0.4   | 0.8 | 0.4   | 0.4 | 0.4   | 0.4 |
| 80°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 |
| 82.5° | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 |
| 85°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.0 | 0.0   | 0.4 | 0.4   | 0.4 | 0.0   | 0.4 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.4 |
| 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: P1319781

CATALOG NUMBER: LDSQA3D05R209840DE010 3LSQCA45R 1MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 29.1  | 29.1 | 29.1   | 29.1 | 29.1   | 29.1 |
| 2.5°  | 30.2  | 28.7 | 27.5   | 26.3 | 25.9   | 25.9 |
| 5°    | 29.5  | 27.1 | 24.7   | 23.6 | 22.8   | 22.8 |
| 7.5°  | 27.1  | 24.4 | 22.0   | 20.8 | 20.4   | 20.4 |
| 10°   | 24.4  | 21.2 | 18.9   | 18.1 | 18.1   | 17.7 |
| 12.5° | 21.2  | 18.1 | 16.5   | 16.1 | 16.1   | 16.1 |
| 15°   | 17.7  | 15.3 | 14.1   | 14.1 | 14.5   | 14.9 |
| 17.5° | 14.9  | 12.6 | 12.2   | 13.0 | 13.7   | 13.7 |
| 20°   | 12.6  | 11.0 | 11.0   | 11.8 | 12.6   | 13.0 |
| 22.5° | 10.6  | 9.4  | 9.8    | 11.0 | 12.2   | 12.6 |
| 25°   | 9.4   | 8.2  | 9.0    | 10.2 | 11.4   | 12.2 |
| 27.5° | 7.9   | 7.5  | 8.2    | 9.8  | 11.4   | 11.8 |
| 30°   | 6.7   | 6.7  | 7.9    | 9.4  | 11.0   | 11.4 |
| 31°   | 6.3   | 6.3  | 7.9    | 9.4  | 11.0   | 11.4 |
| 32°   | 5.9   | 6.3  | 7.5    | 9.4  | 11.0   | 11.4 |
| 33°   | 5.5   | 5.9  | 7.5    | 9.0  | 11.0   | 11.4 |
| 34°   | 5.1   | 5.9  | 7.5    | 9.0  | 11.0   | 11.4 |
| 35°   | 4.7   | 5.9  | 7.5    | 9.0  | 11.0   | 11.4 |
| 36°   | 4.3   | 5.5  | 7.1    | 9.0  | 11.0   | 11.4 |
| 37°   | 3.9   | 5.5  | 7.1    | 9.0  | 11.0   | 11.4 |
| 38°   | 3.5   | 5.1  | 7.1    | 9.0  | 11.0   | 11.4 |
| 39°   | 3.5   | 5.1  | 6.7    | 9.0  | 10.6   | 11.4 |
| 40°   | 3.1   | 4.7  | 6.7    | 9.0  | 10.6   | 11.4 |
| 41°   | 2.7   | 4.7  | 6.7    | 8.6  | 10.6   | 11.4 |
| 42°   | 2.4   | 4.3  | 6.3    | 8.6  | 10.6   | 11.4 |
| 43°   | 2.0   | 4.3  | 6.3    | 8.6  | 10.6   | 11.4 |
| 44°   | 2.0   | 3.9  | 6.3    | 8.6  | 10.6   | 11.4 |
| 45°   | 1.6   | 3.9  | 6.3    | 8.6  | 10.6   | 11.4 |
| 46°   | 1.2   | 3.9  | 6.3    | 8.6  | 10.6   | 11.4 |
| 47°   | 1.2   | 3.5  | 5.9    | 8.6  | 10.6   | 11.4 |
| 48°   | 0.8   | 3.5  | 5.9    | 8.6  | 10.6   | 11.4 |
| 49°   | 0.8   | 3.5  | 5.9    | 8.6  | 10.6   | 11.8 |
| 50°   | 0.8   | 3.5  | 5.9    | 8.2  | 10.6   | 11.8 |
| 51°   | 0.4   | 3.5  | 5.9    | 8.2  | 10.6   | 11.8 |
| 52°   | 0.4   | 3.5  | 5.5    | 8.2  | 11.0   | 11.8 |
| 53°   | 0.4   | 3.1  | 5.5    | 8.2  | 11.0   | 11.8 |
| 54°   | 0.4   | 3.1  | 5.5    | 8.2  | 11.0   | 11.4 |
| 55°   | 0.4   | 3.1  | 5.5    | 8.2  | 10.6   | 11.4 |
| 56°   | 0.4   | 2.7  | 5.5    | 8.2  | 10.6   | 11.4 |
| 57°   | 0.4   | 2.7  | 5.1    | 7.9  | 10.6   | 11.0 |
| 58°   | 0.4   | 2.7  | 5.1    | 7.9  | 10.6   | 11.0 |
| 59°   | 0.4   | 2.7  | 5.1    | 7.9  | 10.2   | 11.0 |
| 60°   | 0.8   | 2.4  | 4.7    | 7.5  | 10.2   | 11.0 |
| 62.5° | 0.8   | 2.4  | 4.7    | 7.5  | 9.8    | 10.6 |
| 65°   | 0.8   | 2.4  | 4.3    | 7.1  | 9.8    | 10.6 |



TEST NUMBER: P1319781

CATALOG NUMBER: LDSQA3D05R209840DE010 3LSQCA45R 1MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.8   | 2.0 | 3.9    | 6.7  | 9.4    | 10.2 |
| 70°   | 0.8   | 2.4 | 3.9    | 6.3  | 9.0    | 9.8  |
| 72.5° | 1.2   | 2.0 | 3.5    | 5.9  | 8.6    | 9.4  |
| 75°   | 1.2   | 2.0 | 3.5    | 5.5  | 8.2    | 8.6  |
| 77.5° | 1.6   | 2.0 | 3.1    | 4.7  | 7.5    | 7.9  |
| 80°   | 1.6   | 2.0 | 2.7    | 3.9  | 6.3    | 6.7  |
| 82.5° | 1.6   | 2.0 | 2.0    | 3.1  | 4.7    | 5.1  |
| 85°   | 1.2   | 1.6 | 1.6    | 2.0  | 3.1    | 3.5  |
| 87.5° | 1.2   | 1.6 | 1.2    | 0.8  | 1.6    | 1.6  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)