

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: P1316047

Luminaire Tested: LDSQA3D02R159740DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316047  
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: LDSQA3D02R159740DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 97CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

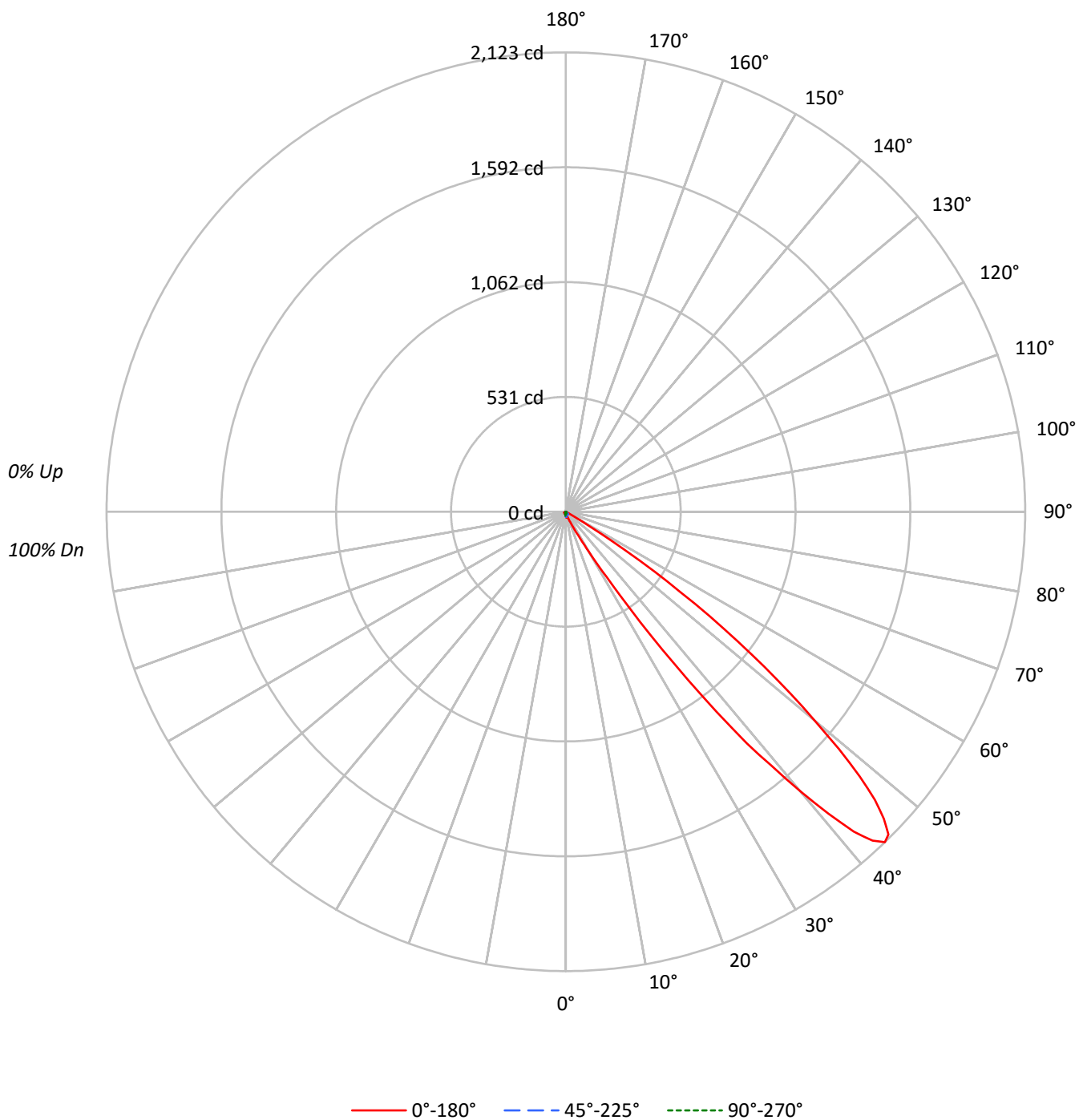
Lumens per Lamp: N/A  
Luminaire Lumens: 237.0 lumens  
Efficiency: N/A  
Efficacy: 65.8 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.48 / 1.09  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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: P1316047

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### Luminous Intensity Polar Plot



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

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 3617   | 3617 | 3617 | 3617 | 3617 |
| 5°  | 4495   | 4011 | 3267 | 2853 | 2818 |
| 10° | 4424   | 3428 | 2518 | 2238 | 2273 |
| 15° | 3673   | 2443 | 1819 | 1854 | 1979 |
| 20° | 6360   | 1943 | 1393 | 1594 | 1814 |
| 25° | 14195  | 2337 | 1121 | 1482 | 1710 |
| 30° | 42438  | 2864 | 994  | 1452 | 1790 |
| 35° | 163360 | 3238 | 904  | 1493 | 1892 |
| 40° | 379183 | 2810 | 854  | 1551 | 2023 |
| 45° | 513570 | 2119 | 755  | 1681 | 2192 |
| 50° | 402673 | 1259 | 750  | 1768 | 2411 |
| 55° | 193278 | 570  | 721  | 1922 | 2612 |
| 60° | 17670  | 69   | 654  | 2032 | 2928 |
| 65° | 1915   | 0    | 571  | 2119 | 3179 |
| 70° | 453    | 0    | 705  | 2266 | 3474 |
| 75° | 466    | 133  | 932  | 2529 | 3926 |
| 80° | 496    | 496  | 1190 | 2579 | 4265 |
| 85° | 395    | 395  | 1778 | 2371 | 4742 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 513570 cd/sqm

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CATALOG NUMBER: LDSQA3D02R159740DE010 3LSQCA45R 1MB

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.8    | 0.8       |
| 10°-20°   | 3.7    | 1.6       |
| 20°-30°   | 9.0    | 3.8       |
| 30°-40°   | 49.0   | 20.7      |
| 40°-50°   | 118.7  | 50.1      |
| 50°-60°   | 47.4   | 20.0      |
| 60°-70°   | 4.1    | 1.7       |
| 70°-80°   | 2.3    | 1.0       |
| 80°-90°   | 1.0    | 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°    | 14.5   | 6.1       |
| 0°-40°    | 63.5   | 26.8      |
| 0°-60°    | 229.6  | 96.9      |
| 0°-90°    | 237.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 237.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 21   | 21  | 21  | 21   | 21   |      |
| 5°  | 26   | 23  | 19  | 16   | 16   | 2    |
| 15° | 21   | 14  | 10  | 10   | 11   | 7    |
| 25° | 75   | 12  | 6   | 8    | 9    | 45   |
| 35° | 777  | 15  | 4   | 7    | 9    | 549  |
| 45° | 2109 | 9   | 3   | 7    | 9    | 1487 |
| 55° | 644  | 2   | 2   | 6    | 9    | 600  |
| 65° | 5    | 0   | 1   | 5    | 8    | 12   |
| 75° | 1    | 0   | 1   | 4    | 6    | 1    |
| 85° | 0    | 0   | 1   | 1    | 2    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1316047

CATALOG NUMBER: LDSQA3D02R159740DE010 3LSQCA45R 1MB

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°   | 17.5° | 20°   | 22.5° | 45°  |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|------|
| 0°    | 21.0   | 21.0   | 21.0   | 21.0   | 21.0   | 21.0   | 21.0  | 21.0  | 21.0  | 21.0  | 21.0 |
| 2.5°  | 23.6   | 23.6   | 23.9   | 23.6   | 23.6   | 23.6   | 23.6  | 23.4  | 23.4  | 23.4  | 22.7 |
| 5°    | 26.0   | 26.0   | 26.0   | 26.0   | 25.8   | 25.8   | 25.8  | 25.5  | 25.5  | 25.3  | 23.2 |
| 7.5°  | 26.9   | 26.9   | 26.7   | 26.7   | 26.5   | 26.5   | 26.2  | 26.0  | 25.8  | 25.5  | 22.2 |
| 10°   | 25.3   | 25.3   | 25.3   | 25.0   | 25.0   | 24.8   | 24.6  | 24.3  | 24.1  | 23.6  | 19.6 |
| 12.5° | 22.4   | 22.4   | 22.7   | 22.4   | 22.2   | 22.0   | 21.5  | 21.3  | 21.0  | 20.6  | 16.3 |
| 15°   | 20.6   | 20.6   | 20.6   | 20.3   | 20.1   | 19.6   | 19.4  | 18.9  | 18.7  | 18.0  | 13.7 |
| 17.5° | 26.2   | 26.2   | 26.0   | 25.5   | 24.6   | 23.9   | 22.7  | 21.7  | 20.6  | 19.1  | 11.8 |
| 20°   | 34.7   | 34.7   | 34.3   | 33.8   | 32.6   | 31.4   | 29.5  | 27.9  | 26.0  | 24.3  | 10.6 |
| 22.5° | 50.3   | 51.0   | 49.6   | 48.0   | 46.3   | 43.5   | 40.9  | 38.3  | 35.0  | 32.1  | 10.9 |
| 25°   | 74.7   | 75.4   | 74.7   | 70.9   | 67.8   | 64.0   | 59.1  | 53.9  | 48.2  | 43.0  | 12.3 |
| 27.5° | 121.0  | 121.5  | 120.3  | 111.1  | 106.1  | 96.2   | 87.4  | 78.9  | 69.5  | 60.0  | 13.5 |
| 30°   | 213.4  | 213.6  | 206.1  | 187.6  | 171.3  | 149.6  | 131.2 | 113.4 | 98.5  | 83.4  | 14.4 |
| 31°   | 281.0  | 274.4  | 258.3  | 236.1  | 210.1  | 180.8  | 155.5 | 132.6 | 110.4 | 94.1  | 14.7 |
| 32°   | 356.8  | 355.9  | 329.2  | 290.7  | 255.9  | 219.3  | 181.3 | 151.9 | 126.4 | 104.2 | 14.9 |
| 33°   | 457.3  | 457.7  | 415.7  | 370.3  | 313.3  | 264.2  | 214.3 | 174.2 | 143.4 | 116.3 | 15.4 |
| 34°   | 614.2  | 577.3  | 527.9  | 466.5  | 389.0  | 315.0  | 250.3 | 199.9 | 158.8 | 127.8 | 15.4 |
| 35°   | 777.0  | 739.9  | 685.5  | 592.4  | 486.1  | 382.6  | 293.0 | 227.6 | 177.2 | 140.4 | 15.4 |
| 36°   | 959.4  | 928.0  | 845.8  | 726.9  | 591.3  | 446.4  | 338.4 | 259.5 | 195.4 | 151.7 | 15.1 |
| 37°   | 1156.5 | 1110.4 | 1019.2 | 889.5  | 708.0  | 536.2  | 393.7 | 291.1 | 213.6 | 164.0 | 14.7 |
| 38°   | 1356.7 | 1315.1 | 1200.0 | 1042.8 | 847.4  | 631.0  | 449.0 | 321.6 | 230.4 | 173.2 | 13.9 |
| 39°   | 1508.4 | 1485.7 | 1371.6 | 1196.0 | 958.7  | 720.7  | 505.9 | 354.2 | 248.1 | 182.4 | 13.2 |
| 40°   | 1686.6 | 1649.9 | 1541.7 | 1324.5 | 1090.3 | 812.2  | 561.7 | 383.1 | 262.8 | 189.8 | 12.5 |
| 41°   | 1849.1 | 1802.8 | 1666.2 | 1456.4 | 1195.7 | 894.4  | 614.6 | 412.8 | 274.6 | 194.0 | 12.1 |
| 42°   | 1988.6 | 1934.7 | 1791.9 | 1569.3 | 1283.9 | 960.1  | 656.9 | 434.1 | 285.7 | 197.6 | 11.3 |
| 43°   | 2078.8 | 2032.3 | 1891.9 | 1654.2 | 1359.3 | 1020.4 | 696.4 | 456.3 | 292.6 | 199.9 | 10.4 |
| 44°   | 2122.8 | 2075.8 | 1939.9 | 1707.3 | 1405.6 | 1056.5 | 721.9 | 471.7 | 300.1 | 203.0 | 9.7  |
| 45°   | 2108.6 | 2060.9 | 1929.5 | 1708.3 | 1420.0 | 1069.5 | 732.8 | 478.5 | 304.1 | 205.8 | 8.7  |
| 46°   | 2043.6 | 2010.1 | 1877.7 | 1663.9 | 1392.6 | 1055.6 | 726.7 | 473.3 | 302.7 | 205.8 | 7.8  |
| 47°   | 1952.4 | 1914.1 | 1788.2 | 1587.5 | 1326.2 | 1019.7 | 701.8 | 457.5 | 294.0 | 201.1 | 6.9  |
| 48°   | 1828.1 | 1795.5 | 1663.2 | 1466.3 | 1224.3 | 941.5  | 645.8 | 431.7 | 280.3 | 191.9 | 5.9  |
| 49°   | 1672.1 | 1626.8 | 1503.6 | 1311.3 | 1091.5 | 830.4  | 572.3 | 388.3 | 258.3 | 178.9 | 5.2  |
| 50°   | 1502.9 | 1446.9 | 1351.9 | 1156.0 | 954.2  | 712.0  | 475.7 | 328.2 | 227.3 | 161.9 | 4.7  |
| 51°   | 1337.3 | 1280.3 | 1189.8 | 1023.2 | 807.7  | 590.8  | 383.8 | 262.1 | 187.2 | 138.5 | 4.0  |
| 52°   | 1165.5 | 1117.8 | 1016.4 | 885.5  | 691.4  | 478.8  | 319.7 | 221.7 | 155.5 | 116.3 | 3.3  |
| 53°   | 994.4  | 961.8  | 865.4  | 732.8  | 555.6  | 391.1  | 261.1 | 189.8 | 135.6 | 99.5  | 2.6  |
| 54°   | 823.1  | 787.4  | 714.1  | 596.0  | 447.8  | 308.6  | 221.4 | 158.8 | 117.7 | 86.7  | 2.4  |
| 55°   | 643.7  | 625.3  | 557.7  | 454.4  | 339.3  | 246.2  | 179.6 | 136.6 | 98.5  | 72.5  | 1.9  |
| 56°   | 495.8  | 475.0  | 413.3  | 329.7  | 252.1  | 192.8  | 145.3 | 111.5 | 83.4  | 60.7  | 1.4  |
| 57°   | 324.7  | 303.4  | 262.5  | 230.2  | 183.6  | 140.6  | 111.1 | 87.9  | 67.8  | 50.3  | 1.2  |
| 58°   | 191.9  | 172.5  | 166.1  | 141.8  | 122.4  | 95.5   | 82.0  | 65.5  | 50.1  | 39.7  | 0.7  |
| 59°   | 88.1   | 89.6   | 79.6   | 74.7   | 67.8   | 60.7   | 49.9  | 43.7  | 34.3  | 28.6  | 0.5  |
| 60°   | 51.3   | 48.4   | 47.3   | 42.3   | 37.6   | 33.3   | 30.0  | 26.5  | 21.5  | 18.4  | 0.2  |
| 62.5° | 17.5   | 16.8   | 17.3   | 15.6   | 14.7   | 14.2   | 13.0  | 11.1  | 9.2   | 7.6   | 0.0  |
| 65°   | 4.7    | 4.7    | 4.5    | 4.3    | 4.0    | 3.8    | 3.5   | 3.1   | 2.8   | 2.4   | 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° | 1.7 | 1.7  | 1.4 | 1.4  | 1.2 | 1.2   | 0.9 | 0.9   | 0.7 | 0.7   | 0.0 |
| 70°   | 0.9 | 0.9  | 0.9 | 0.7  | 0.7 | 0.7   | 0.5 | 0.5   | 0.5 | 0.2   | 0.0 |
| 72.5° | 0.7 | 0.7  | 0.7 | 0.7  | 0.7 | 0.7   | 0.5 | 0.5   | 0.5 | 0.2   | 0.2 |
| 75°   | 0.7 | 0.7  | 0.7 | 0.5  | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5   | 0.2 |
| 77.5° | 0.5 | 0.5  | 0.5 | 0.5  | 0.5 | 0.5   | 0.5 | 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 | 0.2   | 0.5 |
| 82.5° | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.5 |
| 85°   | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 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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CATALOG NUMBER: LDSQA3D02R159740DE010 3LSQCA45R 1MB

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 21.0  | 21.0 | 21.0   | 21.0 | 21.0   | 21.0 |
| 2.5°  | 21.7  | 20.8 | 19.6   | 18.9 | 18.7   | 18.4 |
| 5°    | 20.8  | 18.9 | 17.5   | 16.5 | 16.3   | 16.3 |
| 7.5°  | 18.7  | 16.5 | 15.1   | 14.7 | 14.4   | 14.4 |
| 10°   | 16.3  | 14.4 | 13.2   | 12.8 | 13.0   | 13.0 |
| 12.5° | 13.7  | 12.1 | 11.6   | 11.6 | 11.8   | 12.1 |
| 15°   | 11.1  | 10.2 | 10.2   | 10.4 | 10.9   | 11.1 |
| 17.5° | 9.2   | 8.7  | 9.0    | 9.5  | 9.9    | 10.4 |
| 20°   | 7.6   | 7.6  | 8.0    | 8.7  | 9.5    | 9.9  |
| 22.5° | 6.4   | 6.6  | 7.3    | 8.0  | 9.0    | 9.5  |
| 25°   | 5.4   | 5.9  | 6.6    | 7.8  | 8.7    | 9.0  |
| 27.5° | 4.7   | 5.4  | 6.4    | 7.6  | 8.5    | 9.0  |
| 30°   | 4.0   | 5.0  | 6.1    | 7.3  | 8.5    | 9.0  |
| 31°   | 3.8   | 4.7  | 5.9    | 7.3  | 8.5    | 9.0  |
| 32°   | 3.5   | 4.7  | 5.9    | 7.3  | 8.5    | 9.0  |
| 33°   | 3.3   | 4.5  | 5.9    | 7.1  | 8.5    | 9.0  |
| 34°   | 3.1   | 4.5  | 5.9    | 7.3  | 8.5    | 9.0  |
| 35°   | 2.8   | 4.3  | 5.7    | 7.1  | 8.3    | 9.0  |
| 36°   | 2.6   | 4.3  | 5.7    | 7.1  | 8.5    | 9.0  |
| 37°   | 2.4   | 4.3  | 5.7    | 7.1  | 8.3    | 9.0  |
| 38°   | 2.4   | 4.0  | 5.4    | 7.1  | 8.3    | 9.0  |
| 39°   | 2.1   | 3.8  | 5.4    | 7.1  | 8.3    | 9.0  |
| 40°   | 1.9   | 3.8  | 5.2    | 6.9  | 8.3    | 9.0  |
| 41°   | 1.7   | 3.5  | 5.2    | 6.9  | 8.3    | 9.0  |
| 42°   | 1.4   | 3.5  | 5.2    | 6.9  | 8.3    | 9.0  |
| 43°   | 1.2   | 3.3  | 5.0    | 6.9  | 8.3    | 9.0  |
| 44°   | 1.2   | 3.3  | 5.0    | 6.9  | 8.3    | 9.0  |
| 45°   | 0.9   | 3.1  | 4.7    | 6.9  | 8.3    | 9.0  |
| 46°   | 0.9   | 3.1  | 4.7    | 6.6  | 8.3    | 9.0  |
| 47°   | 0.7   | 3.1  | 4.7    | 6.6  | 8.3    | 9.0  |
| 48°   | 0.7   | 2.8  | 4.7    | 6.6  | 8.3    | 9.0  |
| 49°   | 0.5   | 2.8  | 4.7    | 6.6  | 8.3    | 9.0  |
| 50°   | 0.5   | 2.8  | 4.5    | 6.6  | 8.3    | 9.0  |
| 51°   | 0.5   | 2.8  | 4.5    | 6.6  | 8.3    | 9.0  |
| 52°   | 0.5   | 2.6  | 4.5    | 6.6  | 8.3    | 9.0  |
| 53°   | 0.5   | 2.6  | 4.5    | 6.6  | 8.3    | 9.0  |
| 54°   | 0.5   | 2.6  | 4.3    | 6.6  | 8.3    | 9.0  |
| 55°   | 0.5   | 2.4  | 4.3    | 6.4  | 8.3    | 8.7  |
| 56°   | 0.5   | 2.4  | 4.3    | 6.4  | 8.3    | 8.7  |
| 57°   | 0.5   | 2.4  | 4.0    | 6.4  | 8.3    | 8.7  |
| 58°   | 0.5   | 2.1  | 4.0    | 6.1  | 8.0    | 8.7  |
| 59°   | 0.5   | 2.1  | 3.8    | 6.1  | 8.0    | 8.5  |
| 60°   | 0.5   | 1.9  | 3.8    | 5.9  | 7.8    | 8.5  |
| 62.5° | 0.5   | 1.7  | 3.3    | 5.7  | 7.6    | 8.0  |
| 65°   | 0.5   | 1.4  | 3.1    | 5.2  | 7.3    | 7.8  |



TEST NUMBER: P1316047

CATALOG NUMBER: LDSQA3D02R159740DE010 3LSQCA45R 1MB

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.5   | 1.4 | 2.8    | 5.0  | 6.9    | 7.6  |
| 70°   | 0.5   | 1.4 | 2.6    | 4.5  | 6.6    | 6.9  |
| 72.5° | 0.7   | 1.4 | 2.4    | 4.3  | 6.1    | 6.4  |
| 75°   | 0.9   | 1.4 | 2.1    | 3.8  | 5.7    | 5.9  |
| 77.5° | 0.9   | 1.4 | 1.9    | 3.3  | 5.0    | 5.2  |
| 80°   | 0.9   | 1.2 | 1.7    | 2.6  | 4.0    | 4.3  |
| 82.5° | 0.9   | 1.2 | 1.2    | 2.1  | 3.1    | 3.3  |
| 85°   | 0.7   | 0.9 | 0.9    | 1.2  | 2.1    | 2.4  |
| 87.5° | 0.7   | 0.9 | 0.5    | 0.7  | 0.9    | 0.9  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)