

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: P1318952

Luminaire Tested: LDSQA3D05R359835DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1318952  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R359835DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 98CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

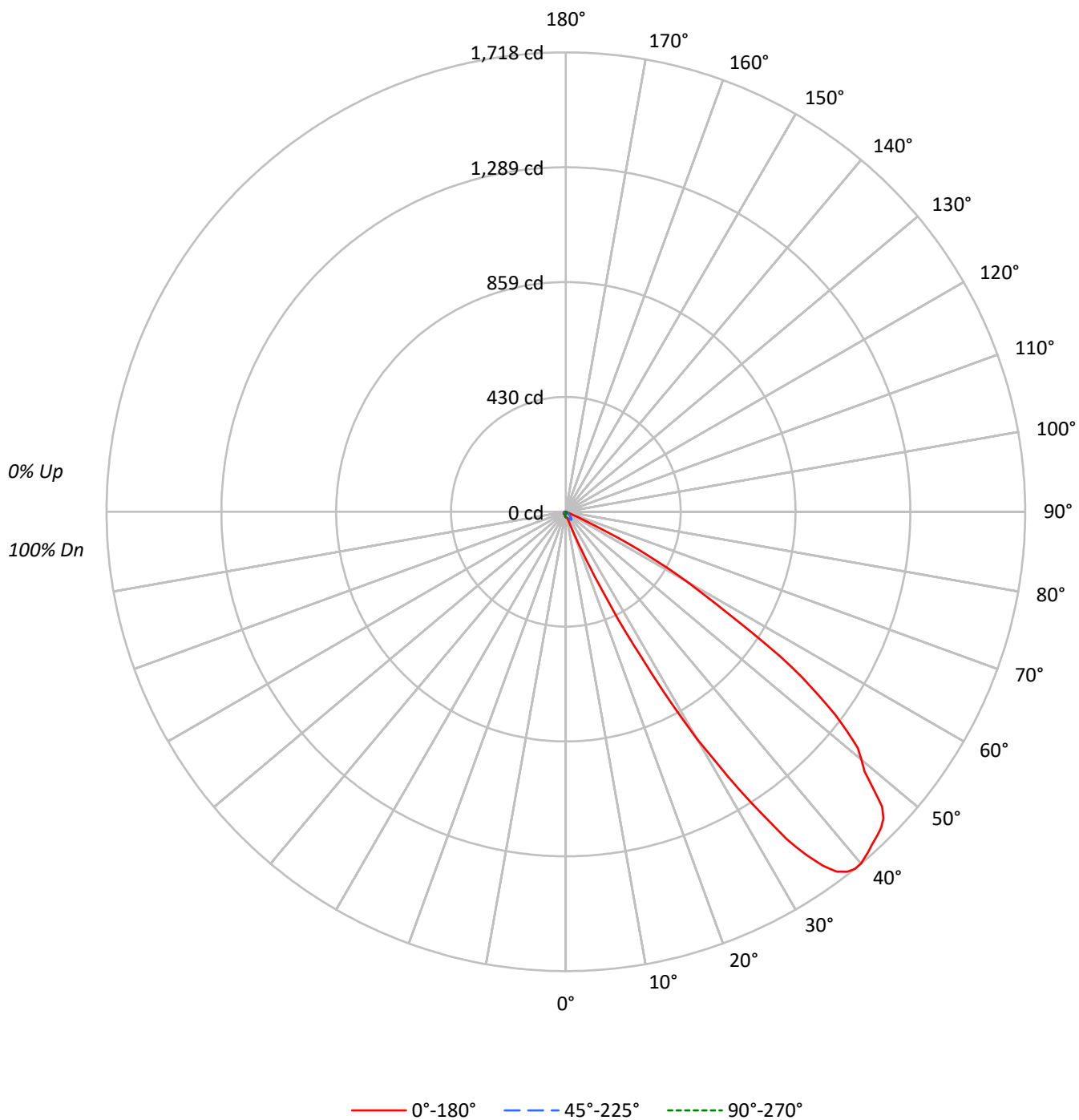
Lumens per Lamp: N/A  
Luminaire Lumens: 428.0 lumens  
Efficiency: N/A  
Efficacy: 59.4 lumens/watt  
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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



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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  | 107 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 87  |    |    |
| 2   | 100 | 93  | 86  | 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  | 52  | 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  | 38  | 50  | 43  | 37  | 48  | 42  | 37  | 35  |    |    |
| 7   | 62  | 48  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 32  | 44  | 37  | 31  | 42  | 36  | 31  | 29  |    |    |
| 8   | 57  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 27  | 39  | 32  | 26  | 38  | 31  | 26  | 24  |    |    |
| 9   | 52  | 38  | 29  | 23  | 50  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 22  | 34  | 27  | 22  | 20  |    |    |
| 10  | 48  | 34  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 25  | 19  | 31  | 24  | 19  | 30  | 24  | 19  | 17  |    |    |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 3393   | 3393 | 3393 | 3393 | 3393 |
| 5°  | 3665   | 3613 | 3337 | 3008 | 2939 |
| 10° | 3847   | 3515 | 2973 | 2571 | 2571 |
| 15° | 5509   | 3441 | 2407 | 2211 | 2264 |
| 20° | 13801  | 3684 | 1906 | 1906 | 2126 |
| 25° | 64096  | 4694 | 1463 | 1767 | 1976 |
| 30° | 194848 | 6384 | 1153 | 1611 | 1989 |
| 35° | 329307 | 7401 | 967  | 1535 | 1955 |
| 40° | 386017 | 7307 | 787  | 1574 | 2091 |
| 45° | 406525 | 5163 | 658  | 1705 | 2265 |
| 50° | 386946 | 3108 | 616  | 1768 | 2492 |
| 55° | 324252 | 1261 | 691  | 1982 | 2913 |
| 60° | 181523 | 276  | 792  | 2273 | 3203 |
| 65° | 31338  | 163  | 774  | 2527 | 3627 |
| 70° | 604    | 201  | 957  | 2719 | 4079 |
| 75° | 532    | 266  | 1264 | 3061 | 4658 |
| 80° | 397    | 397  | 1488 | 3471 | 5356 |
| 85° | 0      | 790  | 2964 | 3754 | 6126 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 409397 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.8    | 0.4       |
| 10°-20°   | 5.0    | 1.2       |
| 20°-30°   | 26.3   | 6.1       |
| 30°-40°   | 113.4  | 26.5      |
| 40°-50°   | 161.8  | 37.8      |
| 50°-60°   | 100.2  | 23.4      |
| 60°-70°   | 15.3   | 3.6       |
| 70°-80°   | 2.9    | 0.7       |
| 80°-90°   | 1.4    | 0.3       |
| 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°    | 33.1   | 7.7       |
| 0°-40°    | 146.5  | 34.2      |
| 0°-60°    | 408.5  | 95.4      |
| 0°-90°    | 428.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 428.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 20   | 20  | 20  | 20   | 20   |      |
| 5°  | 21   | 21  | 19  | 17   | 17   | 2    |
| 15° | 31   | 19  | 14  | 12   | 13   | 11   |
| 25° | 337  | 25  | 8   | 9    | 10   | 202  |
| 35° | 1566 | 35  | 5   | 7    | 9    | 940  |
| 45° | 1669 | 21  | 3   | 7    | 9    | 1261 |
| 55° | 1080 | 4   | 2   | 7    | 10   | 920  |
| 65° | 77   | 0   | 2   | 6    | 9    | 157  |
| 75° | 1    | 0   | 2   | 5    | 7    | 1    |
| 85° | 0    | 0   | 2   | 2    | 3    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°   | 30°   | 45°  | 67.5° | 90°  | 112.5° |
|-------|--------|--------|--------|--------|--------|-------|-------|------|-------|------|--------|
| 0°    | 19.7   | 19.7   | 19.7   | 19.7   | 19.7   | 19.7  | 19.7  | 19.7 | 19.7  | 19.7 | 19.7   |
| 2.5°  | 20.5   | 20.5   | 20.5   | 20.5   | 20.5   | 20.5  | 20.5  | 20.5 | 20.5  | 19.7 | 19.3   |
| 5°    | 21.2   | 21.2   | 20.9   | 20.9   | 20.9   | 20.9  | 20.9  | 20.9 | 20.1  | 19.3 | 18.2   |
| 7.5°  | 21.6   | 21.6   | 21.2   | 21.2   | 21.2   | 21.2  | 20.9  | 20.5 | 19.7  | 18.2 | 17.0   |
| 10°   | 22.0   | 22.0   | 22.0   | 22.0   | 21.6   | 21.2  | 20.9  | 20.1 | 18.9  | 17.0 | 15.8   |
| 12.5° | 24.7   | 24.7   | 24.3   | 23.6   | 22.8   | 22.0  | 21.2  | 19.7 | 17.4  | 15.5 | 14.3   |
| 15°   | 30.9   | 30.5   | 29.7   | 28.6   | 27.0   | 25.1  | 23.6  | 19.3 | 15.8  | 13.5 | 12.7   |
| 17.5° | 43.3   | 42.5   | 41.3   | 37.5   | 34.0   | 30.5  | 27.4  | 19.3 | 14.3  | 12.0 | 11.2   |
| 20°   | 75.3   | 75.7   | 67.6   | 58.3   | 50.6   | 42.1  | 34.4  | 20.1 | 12.7  | 10.4 | 10.0   |
| 22.5° | 157.2  | 151.1  | 131.7  | 109.3  | 83.5   | 64.5  | 48.7  | 22.0 | 11.2  | 8.9  | 8.9    |
| 25°   | 337.3  | 313.7  | 267.0  | 201.7  | 142.2  | 100.8 | 70.7  | 24.7 | 10.0  | 7.7  | 8.1    |
| 27.5° | 615.9  | 594.6  | 500.7  | 377.1  | 250.4  | 152.2 | 95.8  | 28.2 | 8.9   | 6.6  | 7.3    |
| 30°   | 979.8  | 921.1  | 798.6  | 618.2  | 418.4  | 233.0 | 128.7 | 32.1 | 7.3   | 5.8  | 7.0    |
| 31°   | 1093.4 | 1066.4 | 917.2  | 715.2  | 490.3  | 276.6 | 142.6 | 33.2 | 7.0   | 5.8  | 6.6    |
| 32°   | 1228.2 | 1180.3 | 1046.7 | 821.4  | 563.3  | 315.7 | 159.2 | 34.4 | 6.6   | 5.0  | 6.6    |
| 33°   | 1348.8 | 1302.4 | 1139.8 | 914.9  | 637.1  | 360.1 | 177.0 | 34.8 | 5.8   | 5.0  | 6.2    |
| 34°   | 1475.5 | 1412.2 | 1251.0 | 1012.7 | 712.8  | 408.0 | 193.2 | 35.2 | 5.4   | 4.6  | 6.2    |
| 35°   | 1566.3 | 1502.9 | 1346.9 | 1089.9 | 778.1  | 450.5 | 211.7 | 35.2 | 5.0   | 4.6  | 5.8    |
| 36°   | 1636.6 | 1581.0 | 1429.5 | 1169.5 | 843.0  | 488.7 | 226.4 | 35.2 | 4.2   | 4.2  | 5.8    |
| 37°   | 1684.9 | 1632.0 | 1485.2 | 1237.9 | 892.5  | 522.7 | 239.5 | 35.2 | 3.9   | 4.2  | 5.8    |
| 38°   | 1708.5 | 1664.4 | 1538.9 | 1287.7 | 940.4  | 549.4 | 250.0 | 34.4 | 3.5   | 3.9  | 5.4    |
| 39°   | 1718.5 | 1682.6 | 1571.7 | 1329.9 | 976.3  | 572.6 | 257.7 | 33.6 | 3.1   | 3.9  | 5.4    |
| 40°   | 1717.0 | 1685.7 | 1590.3 | 1358.8 | 1005.3 | 588.4 | 262.0 | 32.5 | 2.7   | 3.5  | 5.4    |
| 41°   | 1708.1 | 1681.1 | 1599.9 | 1383.6 | 1022.7 | 599.2 | 263.1 | 31.3 | 2.3   | 3.5  | 5.0    |
| 42°   | 1698.1 | 1673.3 | 1603.0 | 1396.7 | 1033.9 | 602.7 | 260.0 | 29.7 | 2.3   | 3.1  | 5.0    |
| 43°   | 1687.6 | 1664.8 | 1603.0 | 1400.9 | 1036.6 | 600.4 | 255.0 | 27.0 | 1.9   | 3.1  | 5.0    |
| 44°   | 1679.1 | 1657.5 | 1598.0 | 1399.8 | 1030.8 | 591.5 | 245.7 | 24.0 | 1.5   | 3.1  | 5.0    |
| 45°   | 1669.1 | 1647.8 | 1591.4 | 1392.4 | 1019.6 | 576.5 | 234.1 | 21.2 | 1.2   | 2.7  | 5.0    |
| 46°   | 1651.3 | 1634.7 | 1579.8 | 1377.4 | 1001.8 | 555.6 | 219.5 | 19.3 | 0.8   | 2.7  | 4.6    |
| 47°   | 1616.9 | 1602.6 | 1557.4 | 1355.0 | 978.3  | 530.9 | 204.4 | 17.4 | 0.8   | 2.7  | 4.6    |
| 48°   | 1547.8 | 1547.4 | 1512.6 | 1313.2 | 940.8  | 500.0 | 188.5 | 15.5 | 0.8   | 2.7  | 4.6    |
| 49°   | 1480.9 | 1474.0 | 1430.7 | 1239.8 | 887.1  | 462.9 | 171.9 | 13.9 | 0.4   | 2.7  | 4.6    |
| 50°   | 1444.2 | 1429.2 | 1358.1 | 1153.3 | 818.3  | 411.5 | 154.2 | 11.6 | 0.4   | 2.3  | 4.6    |
| 51°   | 1406.0 | 1384.3 | 1300.5 | 1075.2 | 736.4  | 362.0 | 134.8 | 9.3  | 0.4   | 2.3  | 4.2    |
| 52°   | 1336.8 | 1316.3 | 1222.4 | 1000.7 | 656.8  | 311.4 | 116.3 | 7.7  | 0.4   | 2.3  | 4.6    |
| 53°   | 1262.2 | 1232.9 | 1130.9 | 918.8  | 586.9  | 266.6 | 97.4  | 6.6  | 0.4   | 2.3  | 4.2    |
| 54°   | 1168.4 | 1155.2 | 1038.2 | 818.3  | 505.0  | 223.3 | 80.0  | 5.4  | 0.4   | 2.3  | 4.2    |
| 55°   | 1079.9 | 1060.6 | 938.9  | 715.5  | 430.8  | 183.1 | 66.8  | 4.2  | 0.4   | 2.3  | 4.2    |
| 56°   | 967.1  | 938.1  | 824.1  | 621.3  | 355.5  | 147.6 | 56.4  | 3.5  | 0.4   | 2.3  | 4.2    |
| 57°   | 832.6  | 801.7  | 711.7  | 516.6  | 279.0  | 112.4 | 47.1  | 2.7  | 0.4   | 2.3  | 4.2    |
| 58°   | 704.3  | 677.7  | 581.1  | 398.7  | 210.2  | 78.0  | 39.0  | 1.9  | 0.4   | 1.9  | 4.2    |
| 59°   | 608.5  | 579.2  | 483.3  | 306.8  | 146.0  | 57.6  | 29.4  | 1.5  | 0.4   | 2.3  | 4.2    |
| 60°   | 527.0  | 489.1  | 389.1  | 237.6  | 104.3  | 41.3  | 21.6  | 0.8  | 0.8   | 2.3  | 4.2    |
| 62.5° | 303.7  | 268.1  | 185.8  | 96.6   | 42.9   | 21.2  | 10.4  | 0.4  | 0.8   | 2.3  | 4.2    |
| 65°   | 76.9   | 68.4   | 44.4   | 20.9   | 12.0   | 7.3   | 3.9   | 0.4  | 0.8   | 1.9  | 3.9    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|--------|
| 67.5° | 2.7 | 2.7 | 2.7 | 2.3 | 1.9 | 1.5 | 0.8 | 0.4 | 0.8   | 1.9 | 3.9    |
| 70°   | 1.2 | 1.2 | 1.2 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.8   | 1.9 | 3.5    |
| 72.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 1.2   | 1.9 | 3.1    |
| 75°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 1.2   | 1.9 | 3.1    |
| 77.5° | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 1.2   | 1.5 | 2.7    |
| 80°   | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 1.2   | 1.5 | 2.3    |
| 82.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 1.2   | 1.5 | 1.9    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.4 | 1.2   | 1.5 | 1.5    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 1.2   | 1.5 | 1.2    |
| 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):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 19.7 | 19.7   | 19.7 |
| 2.5°  | 18.5 | 18.5   | 18.5 |
| 5°    | 17.4 | 17.4   | 17.0 |
| 7.5°  | 16.2 | 15.8   | 15.8 |
| 10°   | 14.7 | 14.7   | 14.7 |
| 12.5° | 13.5 | 13.5   | 13.5 |
| 15°   | 12.4 | 12.7   | 12.7 |
| 17.5° | 11.2 | 12.0   | 12.0 |
| 20°   | 10.4 | 11.2   | 11.6 |
| 22.5° | 9.7  | 10.4   | 10.8 |
| 25°   | 9.3  | 10.0   | 10.4 |
| 27.5° | 8.5  | 9.7    | 10.4 |
| 30°   | 8.1  | 9.3    | 10.0 |
| 31°   | 8.1  | 9.3    | 9.7  |
| 32°   | 7.7  | 9.3    | 9.7  |
| 33°   | 7.7  | 9.3    | 9.7  |
| 34°   | 7.7  | 8.9    | 9.7  |
| 35°   | 7.3  | 8.9    | 9.3  |
| 36°   | 7.3  | 8.9    | 9.3  |
| 37°   | 7.3  | 8.9    | 9.7  |
| 38°   | 7.3  | 8.9    | 9.3  |
| 39°   | 7.0  | 8.9    | 9.3  |
| 40°   | 7.0  | 8.9    | 9.3  |
| 41°   | 7.0  | 8.9    | 9.3  |
| 42°   | 7.0  | 8.9    | 9.3  |
| 43°   | 7.0  | 8.9    | 9.3  |
| 44°   | 7.0  | 8.5    | 9.3  |
| 45°   | 7.0  | 8.5    | 9.3  |
| 46°   | 7.0  | 8.9    | 9.3  |
| 47°   | 7.0  | 8.9    | 9.7  |
| 48°   | 7.0  | 8.5    | 9.3  |
| 49°   | 6.6  | 8.5    | 9.3  |
| 50°   | 6.6  | 8.5    | 9.3  |
| 51°   | 6.6  | 8.9    | 9.7  |
| 52°   | 6.6  | 8.9    | 9.7  |
| 53°   | 6.6  | 8.9    | 9.7  |
| 54°   | 6.6  | 8.9    | 9.3  |
| 55°   | 6.6  | 8.9    | 9.7  |
| 56°   | 6.6  | 8.9    | 9.3  |
| 57°   | 6.6  | 8.9    | 9.3  |
| 58°   | 6.6  | 8.5    | 9.3  |
| 59°   | 6.6  | 8.5    | 9.3  |
| 60°   | 6.6  | 8.5    | 9.3  |
| 62.5° | 6.2  | 8.5    | 9.3  |
| 65°   | 6.2  | 8.1    | 8.9  |





TEST NUMBER: P1318952

CATALOG NUMBER: LDSQA3D05R359835DE010 3LSQCA45R 1MB

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 67.5° | 5.8  | 8.1    | 8.5  |
| 70°   | 5.4  | 7.7    | 8.1  |
| 72.5° | 5.0  | 7.3    | 7.7  |
| 75°   | 4.6  | 6.6    | 7.0  |
| 77.5° | 3.9  | 5.8    | 6.6  |
| 80°   | 3.5  | 5.0    | 5.4  |
| 82.5° | 2.7  | 4.2    | 4.6  |
| 85°   | 1.9  | 3.1    | 3.1  |
| 87.5° | 0.8  | 1.5    | 1.5  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)