

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: P1312101

Luminaire Tested: LDSQA3D02R359050DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

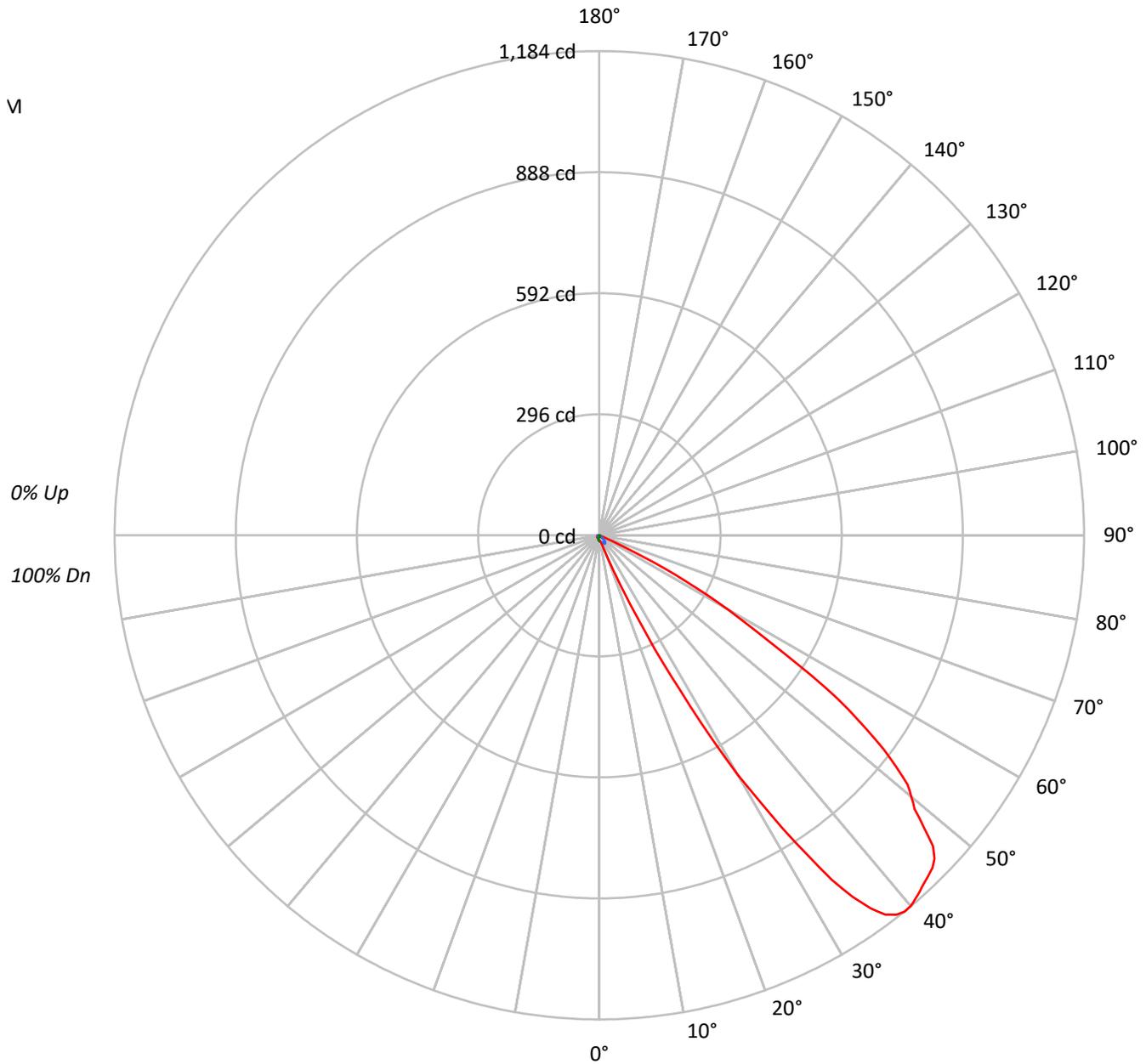
Test Method: LM-79-2019  
Report Number: P1312101  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R359050DE010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R35 optic, 5000K CCT AND, 90CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 295.0 lumens  
Efficiency: N/A  
Efficacy: 82.0 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): 3.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P1312101  
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### Luminous Intensity Polar Plot



— 0°-180°    - - - 45°-225°    ····· 90°-270°



TEST NUMBER: P1312101  
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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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 89  | 89  | 89  | 87  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 75  | 75  | 75  | 73  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 63  | 63  | 63  | 61  |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 52  | 52  | 52  | 50  |
| 5   | 75  | 62  | 52  | 46  | 73  | 61  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 55  | 49  | 44  | 44  | 44  | 44  | 42  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 38  | 50  | 43  | 37  | 48  | 42  | 37  | 37  | 37  | 37  | 35  |
| 7   | 62  | 48  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 32  | 44  | 37  | 31  | 42  | 36  | 31  | 31  | 31  | 31  | 29  |
| 8   | 57  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 27  | 39  | 32  | 26  | 38  | 31  | 26  | 26  | 26  | 26  | 24  |
| 9   | 52  | 38  | 29  | 23  | 50  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 22  | 34  | 27  | 22  | 22  | 22  | 22  | 20  |
| 10  | 48  | 34  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 25  | 19  | 31  | 24  | 19  | 30  | 24  | 19  | 19  | 19  | 19  | 17  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 2342   | 2342 | 2342 | 2342 | 2342 |
| 5°  | 2524   | 2489 | 2299 | 2075 | 2023 |
| 10° | 2658   | 2413 | 2046 | 1766 | 1766 |
| 15° | 3798   | 2371 | 1658 | 1516 | 1569 |
| 20° | 9512   | 2529 | 1320 | 1320 | 1466 |
| 25° | 44181  | 3230 | 1007 | 1216 | 1368 |
| 30° | 134294 | 4395 | 795  | 1114 | 1372 |
| 35° | 226981 | 5088 | 673  | 1072 | 1346 |
| 40° | 266053 | 5036 | 540  | 1079 | 1439 |
| 45° | 280191 | 3556 | 463  | 1169 | 1559 |
| 50° | 266698 | 2143 | 429  | 1206 | 1715 |
| 55° | 223484 | 871  | 480  | 1351 | 2012 |
| 60° | 125103 | 172  | 551  | 1550 | 2204 |
| 65° | 21598  | 122  | 530  | 1752 | 2486 |
| 70° | 403    | 151  | 655  | 1863 | 2820 |
| 75° | 333    | 200  | 865  | 2129 | 3194 |
| 80° | 298    | 298  | 1091 | 2380 | 3670 |
| 85° | 0      | 593  | 2174 | 2569 | 4150 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 46°  
 Luminance: 282187 cd/sqm



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**ZONAL LUMENS:**

| Zone            | Lumens       | % Fixture    |
|-----------------|--------------|--------------|
| 0°-10°          | 1.2          | 0.4          |
| 10°-20°         | 3.5          | 1.2          |
| 20°-30°         | 18.1         | 6.1          |
| 30°-40°         | 78.2         | 26.5         |
| 40°-50°         | 111.5        | 37.8         |
| 50°-60°         | 69.1         | 23.4         |
| 60°-70°         | 10.5         | 3.6          |
| 70°-80°         | 2.0          | 0.7          |
| 80°-90°         | 1.0          | 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          |
| <b>0°-30°</b>   | <b>22.8</b>  | <b>7.7</b>   |
| <b>0°-40°</b>   | <b>101.0</b> | <b>34.2</b>  |
| <b>0°-60°</b>   | <b>281.5</b> | <b>95.4</b>  |
| <b>0°-90°</b>   | <b>295.0</b> | <b>100.0</b> |
| 90°-120°        | 0.0          | 0.0          |
| 90°-150°        | 0.0          | 0.0          |
| <b>90°-180°</b> | <b>0.0</b>   | <b>0.0</b>   |
| <b>0°-180°</b>  | <b>295.0</b> | <b>100.0</b> |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 14   | 14  | 14  | 14   | 14   |      |
| 5°  | 15   | 14  | 13  | 12   | 12   | 1    |
| 15° | 21   | 13  | 9   | 8    | 9    | 8    |
| 25° | 232  | 17  | 5   | 6    | 7    | 139  |
| 35° | 1080 | 24  | 3   | 5    | 6    | 648  |
| 45° | 1150 | 15  | 2   | 5    | 6    | 869  |
| 55° | 744  | 3   | 2   | 4    | 7    | 634  |
| 65° | 53   | 0   | 1   | 4    | 6    | 108  |
| 75° | 0    | 0   | 1   | 3    | 5    | 1    |
| 85° | 0    | 0   | 1   | 1    | 2    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |



TEST NUMBER: P1312101

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°   | 20°   | 25°   | 30°   | 45°  | 67.5° | 90°  | 112.5° |
|-------|--------|--------|--------|-------|-------|-------|-------|------|-------|------|--------|
| 0°    | 13.6   | 13.6   | 13.6   | 13.6  | 13.6  | 13.6  | 13.6  | 13.6 | 13.6  | 13.6 | 13.6   |
| 2.5°  | 14.1   | 14.1   | 14.1   | 14.1  | 14.1  | 14.1  | 14.1  | 14.1 | 14.1  | 13.6 | 13.3   |
| 5°    | 14.6   | 14.6   | 14.4   | 14.4  | 14.4  | 14.4  | 14.4  | 14.4 | 13.8  | 13.3 | 12.5   |
| 7.5°  | 14.9   | 14.9   | 14.6   | 14.6  | 14.6  | 14.6  | 14.4  | 14.1 | 13.6  | 12.5 | 11.7   |
| 10°   | 15.2   | 15.2   | 15.2   | 15.2  | 14.9  | 14.6  | 14.4  | 13.8 | 13.0  | 11.7 | 10.9   |
| 12.5° | 17.0   | 17.0   | 16.8   | 16.2  | 15.7  | 15.2  | 14.6  | 13.6 | 12.0  | 10.7 | 9.9    |
| 15°   | 21.3   | 21.0   | 20.5   | 19.7  | 18.6  | 17.3  | 16.2  | 13.3 | 10.9  | 9.3  | 8.8    |
| 17.5° | 29.8   | 29.3   | 28.5   | 25.8  | 23.4  | 21.0  | 18.9  | 13.3 | 9.9   | 8.3  | 7.7    |
| 20°   | 51.9   | 52.2   | 46.6   | 40.2  | 34.9  | 29.0  | 23.7  | 13.8 | 8.8   | 7.2  | 6.9    |
| 22.5° | 108.4  | 104.1  | 90.8   | 75.4  | 57.5  | 44.5  | 33.6  | 15.2 | 7.7   | 6.1  | 6.1    |
| 25°   | 232.5  | 216.2  | 184.0  | 139.0 | 98.0  | 69.5  | 48.7  | 17.0 | 6.9   | 5.3  | 5.6    |
| 27.5° | 424.5  | 409.8  | 345.1  | 259.9 | 172.6 | 104.9 | 66.0  | 19.4 | 6.1   | 4.5  | 5.1    |
| 30°   | 675.3  | 634.9  | 550.4  | 426.1 | 288.4 | 160.6 | 88.7  | 22.1 | 5.1   | 4.0  | 4.8    |
| 31°   | 753.6  | 735.0  | 632.2  | 492.9 | 337.9 | 190.7 | 98.3  | 22.9 | 4.8   | 4.0  | 4.5    |
| 32°   | 846.6  | 813.5  | 721.4  | 566.2 | 388.3 | 217.6 | 109.7 | 23.7 | 4.5   | 3.5  | 4.5    |
| 33°   | 929.7  | 897.7  | 785.6  | 630.6 | 439.1 | 248.2 | 122.0 | 24.0 | 4.0   | 3.5  | 4.3    |
| 34°   | 1017.0 | 973.3  | 862.3  | 698.0 | 491.3 | 281.2 | 133.2 | 24.2 | 3.7   | 3.2  | 4.3    |
| 35°   | 1079.6 | 1035.9 | 928.3  | 751.2 | 536.3 | 310.5 | 145.9 | 24.2 | 3.5   | 3.2  | 4.0    |
| 36°   | 1128.0 | 1089.7 | 985.3  | 806.1 | 581.1 | 336.9 | 156.1 | 24.2 | 2.9   | 2.9  | 4.0    |
| 37°   | 1161.3 | 1124.9 | 1023.7 | 853.2 | 615.2 | 360.3 | 165.1 | 24.2 | 2.7   | 2.9  | 4.0    |
| 38°   | 1177.6 | 1147.2 | 1060.7 | 887.6 | 648.2 | 378.7 | 172.3 | 23.7 | 2.4   | 2.7  | 3.7    |
| 39°   | 1184.5 | 1159.7 | 1083.3 | 916.6 | 672.9 | 394.7 | 177.6 | 23.2 | 2.1   | 2.7  | 3.7    |
| 40°   | 1183.4 | 1161.9 | 1096.1 | 936.6 | 692.9 | 405.6 | 180.6 | 22.4 | 1.9   | 2.4  | 3.7    |
| 41°   | 1177.3 | 1158.7 | 1102.8 | 953.6 | 704.9 | 413.0 | 181.4 | 21.6 | 1.6   | 2.4  | 3.5    |
| 42°   | 1170.4 | 1153.3 | 1104.9 | 962.7 | 712.6 | 415.4 | 179.2 | 20.5 | 1.6   | 2.1  | 3.5    |
| 43°   | 1163.2 | 1147.5 | 1104.9 | 965.6 | 714.5 | 413.8 | 175.8 | 18.6 | 1.3   | 2.1  | 3.5    |
| 44°   | 1157.3 | 1142.4 | 1101.4 | 964.8 | 710.5 | 407.7 | 169.4 | 16.5 | 1.1   | 2.1  | 3.5    |
| 45°   | 1150.4 | 1135.8 | 1096.9 | 959.7 | 702.8 | 397.3 | 161.4 | 14.6 | 0.8   | 1.9  | 3.5    |
| 46°   | 1138.2 | 1126.7 | 1088.9 | 949.4 | 690.5 | 382.9 | 151.3 | 13.3 | 0.5   | 1.9  | 3.2    |
| 47°   | 1114.5 | 1104.6 | 1073.5 | 933.9 | 674.3 | 365.9 | 140.9 | 12.0 | 0.5   | 1.9  | 3.2    |
| 48°   | 1066.8 | 1066.5 | 1042.6 | 905.2 | 648.4 | 344.6 | 130.0 | 10.7 | 0.5   | 1.9  | 3.2    |
| 49°   | 1020.7 | 1015.9 | 986.1  | 854.6 | 611.4 | 319.0 | 118.5 | 9.6  | 0.3   | 1.9  | 3.2    |
| 50°   | 995.4  | 985.0  | 936.0  | 794.9 | 564.0 | 283.6 | 106.3 | 8.0  | 0.3   | 1.6  | 3.2    |
| 51°   | 969.1  | 954.2  | 896.4  | 741.1 | 507.6 | 249.5 | 92.9  | 6.4  | 0.3   | 1.6  | 2.9    |
| 52°   | 921.4  | 907.3  | 842.6  | 689.7 | 452.7 | 214.6 | 80.2  | 5.3  | 0.3   | 1.6  | 3.2    |
| 53°   | 870.0  | 849.8  | 779.5  | 633.3 | 404.5 | 183.7 | 67.1  | 4.5  | 0.3   | 1.6  | 2.9    |
| 54°   | 805.3  | 796.2  | 715.5  | 564.0 | 348.1 | 153.9 | 55.1  | 3.7  | 0.3   | 1.6  | 2.9    |
| 55°   | 744.3  | 731.0  | 647.1  | 493.2 | 296.9 | 126.2 | 46.1  | 2.9  | 0.3   | 1.6  | 2.9    |
| 56°   | 666.6  | 646.6  | 568.0  | 428.2 | 245.0 | 101.7 | 38.9  | 2.4  | 0.3   | 1.6  | 2.9    |
| 57°   | 573.9  | 552.6  | 490.5  | 356.0 | 192.3 | 77.5  | 32.5  | 1.9  | 0.3   | 1.6  | 2.9    |
| 58°   | 485.5  | 467.1  | 400.5  | 274.8 | 144.9 | 53.8  | 26.9  | 1.3  | 0.3   | 1.3  | 2.9    |
| 59°   | 419.4  | 399.2  | 333.1  | 211.4 | 100.7 | 39.7  | 20.2  | 1.1  | 0.3   | 1.6  | 2.9    |
| 60°   | 363.2  | 337.1  | 268.2  | 163.8 | 71.9  | 28.5  | 14.9  | 0.5  | 0.5   | 1.6  | 2.9    |
| 62.5° | 209.3  | 184.8  | 128.1  | 66.6  | 29.6  | 14.6  | 7.2   | 0.3  | 0.5   | 1.6  | 2.9    |
| 65°   | 53.0   | 47.1   | 30.6   | 14.4  | 8.3   | 5.1   | 2.7   | 0.3  | 0.5   | 1.3  | 2.7    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|--------|
| 67.5° | 1.9 | 1.9 | 1.9 | 1.6 | 1.3 | 1.1 | 0.5 | 0.3 | 0.5   | 1.3 | 2.7    |
| 70°   | 0.8 | 0.8 | 0.8 | 0.5 | 0.5 | 0.3 | 0.3 | 0.3 | 0.5   | 1.3 | 2.4    |
| 72.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.3 | 0.3 | 0.3 | 0.3 | 0.8   | 1.3 | 2.1    |
| 75°   | 0.5 | 0.5 | 0.5 | 0.5 | 0.3 | 0.3 | 0.3 | 0.3 | 0.8   | 1.3 | 2.1    |
| 77.5° | 0.5 | 0.5 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.8   | 1.1 | 1.9    |
| 80°   | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.8   | 1.1 | 1.6    |
| 82.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.8   | 1.1 | 1.3    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.3 | 0.8   | 1.1 | 1.1    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.8   | 1.1 | 0.8    |
| 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°    | 13.6 | 13.6   | 13.6 |
| 2.5°  | 12.8 | 12.8   | 12.8 |
| 5°    | 12.0 | 12.0   | 11.7 |
| 7.5°  | 11.2 | 10.9   | 10.9 |
| 10°   | 10.1 | 10.1   | 10.1 |
| 12.5° | 9.3  | 9.3    | 9.3  |
| 15°   | 8.5  | 8.8    | 8.8  |
| 17.5° | 7.7  | 8.3    | 8.3  |
| 20°   | 7.2  | 7.7    | 8.0  |
| 22.5° | 6.7  | 7.2    | 7.5  |
| 25°   | 6.4  | 6.9    | 7.2  |
| 27.5° | 5.9  | 6.7    | 7.2  |
| 30°   | 5.6  | 6.4    | 6.9  |
| 31°   | 5.6  | 6.4    | 6.7  |
| 32°   | 5.3  | 6.4    | 6.7  |
| 33°   | 5.3  | 6.4    | 6.7  |
| 34°   | 5.3  | 6.1    | 6.7  |
| 35°   | 5.1  | 6.1    | 6.4  |
| 36°   | 5.1  | 6.1    | 6.4  |
| 37°   | 5.1  | 6.1    | 6.7  |
| 38°   | 5.1  | 6.1    | 6.4  |
| 39°   | 4.8  | 6.1    | 6.4  |
| 40°   | 4.8  | 6.1    | 6.4  |
| 41°   | 4.8  | 6.1    | 6.4  |
| 42°   | 4.8  | 6.1    | 6.4  |
| 43°   | 4.8  | 6.1    | 6.4  |
| 44°   | 4.8  | 5.9    | 6.4  |
| 45°   | 4.8  | 5.9    | 6.4  |
| 46°   | 4.8  | 6.1    | 6.4  |
| 47°   | 4.8  | 6.1    | 6.7  |
| 48°   | 4.8  | 5.9    | 6.4  |
| 49°   | 4.5  | 5.9    | 6.4  |
| 50°   | 4.5  | 5.9    | 6.4  |
| 51°   | 4.5  | 6.1    | 6.7  |
| 52°   | 4.5  | 6.1    | 6.7  |
| 53°   | 4.5  | 6.1    | 6.7  |
| 54°   | 4.5  | 6.1    | 6.4  |
| 55°   | 4.5  | 6.1    | 6.7  |
| 56°   | 4.5  | 6.1    | 6.4  |
| 57°   | 4.5  | 6.1    | 6.4  |
| 58°   | 4.5  | 5.9    | 6.4  |
| 59°   | 4.5  | 5.9    | 6.4  |
| 60°   | 4.5  | 5.9    | 6.4  |
| 62.5° | 4.3  | 5.9    | 6.4  |
| 65°   | 4.3  | 5.6    | 6.1  |



TEST NUMBER: P1312101  
CATALOG NUMBER: LDSQA3D02R359050DE010 3LSQCA45R 1MMS

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 67.5° | 4.0  | 5.6    | 5.9  |
| 70°   | 3.7  | 5.3    | 5.6  |
| 72.5° | 3.5  | 5.1    | 5.3  |
| 75°   | 3.2  | 4.5    | 4.8  |
| 77.5° | 2.7  | 4.0    | 4.5  |
| 80°   | 2.4  | 3.5    | 3.7  |
| 82.5° | 1.9  | 2.9    | 3.2  |
| 85°   | 1.3  | 2.1    | 2.1  |
| 87.5° | 0.5  | 1.1    | 1.1  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)