

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: P1307152

Luminaire Tested: LDSQA3D13R309024DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307152  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R309024DE010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R30 optic, 2400K CCT AND, 90CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

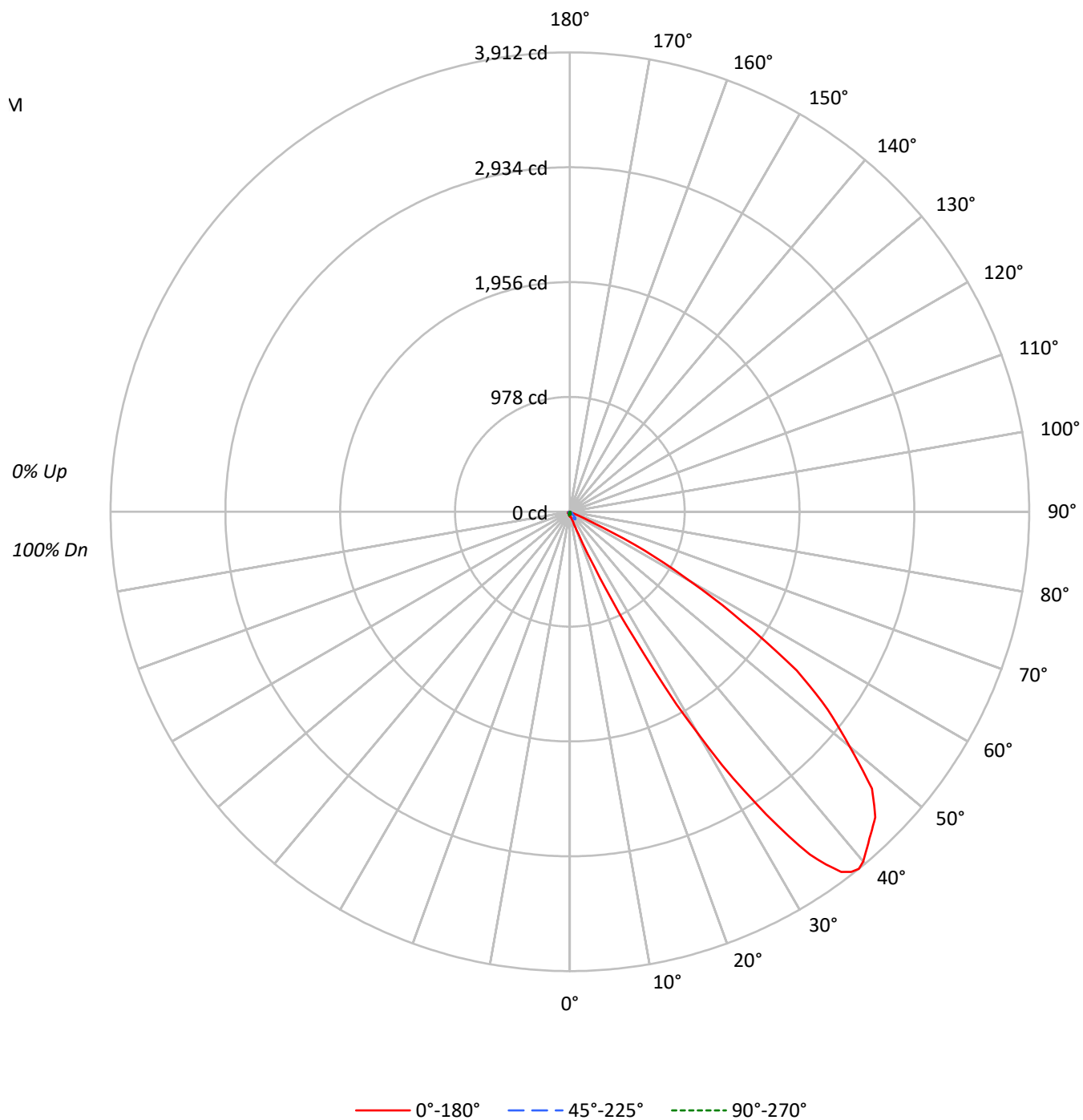
Lumens per Lamp: N/A  
Luminaire Lumens: 1017.0 lumens  
Efficiency: N/A  
Efficacy: 69.7 lumens/watt  
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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





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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 | 100 |    |    |   |  |  |  |
| 1   | 110 | 106 | 102 | 99  | 108 | 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  | 60  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 54  | 49  | 44  | 42  |    |    |   |  |  |  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  | 49  | 42  | 37  | 48  | 42  | 37  | 35  |    |    |   |  |  |  |
| 7   | 62  | 48  | 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  | 32  | 26  | 37  | 31  | 26  | 24  |    |    |   |  |  |  |
| 9   | 52  | 37  | 29  | 23  | 50  | 37  | 28  | 23  | 36  | 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  | 24  | 19  | 17  |    |    |   |  |  |  |

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

|     | 0°     | 45°   | 90°  | 135° | 180°  |
|-----|--------|-------|------|------|-------|
| 0°  | 6786   | 6786  | 6786 | 6786 | 6786  |
| 5°  | 7261   | 7105  | 6673 | 6068 | 5930  |
| 10° | 7940   | 7048  | 5841 | 5246 | 5089  |
| 15° | 11607  | 7025  | 4885 | 4422 | 4582  |
| 20° | 29196  | 7698  | 3775 | 3775 | 4234  |
| 25° | 135603 | 9596  | 2926 | 3420 | 3915  |
| 30° | 431697 | 13284 | 2207 | 3242 | 3918  |
| 35° | 749082 | 16210 | 1808 | 3070 | 3953  |
| 40° | 873631 | 16187 | 1349 | 3080 | 4047  |
| 45° | 895958 | 11472 | 1461 | 3337 | 4384  |
| 50° | 833185 | 6430  | 1152 | 3456 | 5037  |
| 55° | 708136 | 3333  | 1291 | 3873 | 5645  |
| 60° | 408994 | 896   | 1481 | 4133 | 6200  |
| 65° | 83418  | 0     | 1752 | 4890 | 6968  |
| 70° | 1309   | 453   | 2165 | 5589 | 8208  |
| 75° | 1131   | 599   | 2262 | 5723 | 9715  |
| 80° | 893    | 893   | 3372 | 6843 | 11009 |
| 85° | 0      | 1778  | 6719 | 6719 | 13635 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle:  $45^\circ$

Luminance: 895958 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.6    | 0.4       |
| 10°-20°   | 10.3   | 1.0       |
| 20°-30°   | 58.6   | 5.8       |
| 30°-40°   | 273.9  | 26.9      |
| 40°-50°   | 387.4  | 38.1      |
| 50°-60°   | 238.3  | 23.4      |
| 60°-70°   | 36.3   | 3.6       |
| 70°-80°   | 5.8    | 0.6       |
| 80°-90°   | 2.9    | 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°    | 72.5   | 7.1       |
| 0°-40°    | 346.4  | 34.1      |
| 0°-60°    | 972.1  | 95.6      |
| 0°-90°    | 1017.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1017.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 39   | 39  | 39  | 39   | 39   |      |
| 5°  | 42   | 41  | 39  | 35   | 34   | 4    |
| 15° | 65   | 39  | 27  | 25   | 26   | 23   |
| 25° | 714  | 50  | 15  | 18   | 21   | 439  |
| 35° | 3563 | 77  | 9   | 15   | 19   | 2138 |
| 45° | 3679 | 47  | 6   | 14   | 18   | 2789 |
| 55° | 2358 | 11  | 4   | 13   | 19   | 2007 |
| 65° | 205  | 0   | 4   | 12   | 17   | 371  |
| 75° | 2    | 1   | 3   | 9    | 15   | 2    |
| 85° | 0    | 1   | 3   | 3    | 7    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 45°  | 67.5° | 90°  | 112.5° | 135° |
|-------|--------|--------|--------|--------|--------|--------|------|-------|------|--------|------|
| 0°    | 39.4   | 39.4   | 39.4   | 39.4   | 39.4   | 39.4   | 39.4 | 39.4  | 39.4 | 39.4   | 39.4 |
| 2.5°  | 40.3   | 40.3   | 41.1   | 41.1   | 40.3   | 41.1   | 41.1 | 41.1  | 39.4 | 38.6   | 36.8 |
| 5°    | 42.0   | 42.0   | 42.0   | 42.8   | 42.0   | 42.0   | 41.1 | 40.3  | 38.6 | 36.0   | 35.1 |
| 7.5°  | 43.7   | 43.7   | 42.8   | 43.7   | 42.8   | 42.8   | 41.1 | 39.4  | 36.8 | 34.3   | 32.6 |
| 10°   | 45.4   | 45.4   | 44.5   | 44.5   | 43.7   | 43.7   | 40.3 | 37.7  | 33.4 | 30.8   | 30.0 |
| 12.5° | 50.5   | 50.5   | 49.7   | 48.8   | 47.1   | 46.3   | 39.4 | 35.1  | 30.0 | 27.4   | 26.6 |
| 15°   | 65.1   | 64.3   | 62.5   | 60.0   | 55.7   | 54.8   | 39.4 | 32.6  | 27.4 | 24.8   | 24.8 |
| 17.5° | 89.1   | 88.2   | 85.7   | 78.8   | 71.1   | 68.5   | 39.4 | 29.1  | 24.0 | 22.3   | 22.3 |
| 20°   | 159.3  | 152.5  | 139.6  | 122.5  | 104.5  | 95.1   | 42.0 | 25.7  | 20.6 | 19.7   | 20.6 |
| 21°   | 208.2  | 201.3  | 185.0  | 156.8  | 125.1  | 114.8  | 43.7 | 24.8  | 19.7 | 18.8   | 20.6 |
| 22°   | 283.6  | 275.9  | 242.4  | 203.9  | 158.5  | 140.5  | 44.5 | 23.1  | 18.0 | 18.0   | 19.7 |
| 23°   | 395.8  | 382.9  | 326.4  | 264.7  | 197.9  | 172.2  | 46.3 | 22.3  | 17.1 | 18.0   | 18.8 |
| 24°   | 518.3  | 507.2  | 442.9  | 350.4  | 252.7  | 215.9  | 48.0 | 21.4  | 16.3 | 16.3   | 18.0 |
| 25°   | 713.6  | 700.8  | 586.8  | 442.0  | 320.4  | 259.6  | 50.5 | 19.7  | 15.4 | 15.4   | 18.0 |
| 26°   | 966.3  | 907.2  | 755.6  | 569.7  | 394.9  | 325.5  | 53.1 | 18.8  | 14.6 | 15.4   | 17.1 |
| 27°   | 1206.2 | 1157.4 | 986.9  | 730.7  | 488.3  | 400.1  | 56.5 | 18.0  | 13.7 | 14.6   | 17.1 |
| 28°   | 1521.5 | 1452.9 | 1237.9 | 924.4  | 615.1  | 484.0  | 60.0 | 17.1  | 12.9 | 14.6   | 16.3 |
| 29°   | 1874.4 | 1778.5 | 1518.9 | 1142.0 | 758.2  | 578.3  | 63.4 | 16.3  | 12.0 | 13.7   | 16.3 |
| 30°   | 2170.8 | 2080.9 | 1821.3 | 1399.8 | 922.6  | 702.5  | 66.8 | 15.4  | 11.1 | 13.7   | 16.3 |
| 31°   | 2518.6 | 2382.4 | 2068.0 | 1618.3 | 1064.0 | 826.7  | 70.2 | 13.7  | 10.3 | 12.9   | 15.4 |
| 32°   | 2800.5 | 2705.4 | 2371.3 | 1865.0 | 1249.9 | 963.8  | 72.8 | 12.9  | 10.3 | 12.9   | 15.4 |
| 33°   | 3072.9 | 2945.3 | 2622.3 | 2101.4 | 1417.8 | 1104.3 | 75.4 | 12.0  | 9.4  | 12.0   | 15.4 |
| 34°   | 3333.3 | 3216.0 | 2859.6 | 2292.5 | 1576.3 | 1237.9 | 77.1 | 10.3  | 9.4  | 12.0   | 14.6 |
| 35°   | 3562.9 | 3426.7 | 3068.6 | 2479.2 | 1739.1 | 1359.5 | 77.1 | 9.4   | 8.6  | 11.1   | 14.6 |
| 36°   | 3712.0 | 3614.3 | 3250.2 | 2663.4 | 1886.4 | 1475.2 | 77.1 | 8.6   | 7.7  | 11.1   | 13.7 |
| 37°   | 3839.6 | 3725.7 | 3395.9 | 2804.8 | 1995.2 | 1567.7 | 77.1 | 7.7   | 7.7  | 11.1   | 13.7 |
| 38°   | 3891.9 | 3794.2 | 3496.1 | 2929.8 | 2097.1 | 1662.0 | 76.2 | 6.9   | 6.9  | 10.3   | 13.7 |
| 39°   | 3912.4 | 3825.1 | 3571.5 | 3019.8 | 2172.5 | 1725.3 | 74.5 | 6.0   | 6.9  | 10.3   | 13.7 |
| 40°   | 3885.9 | 3819.9 | 3610.0 | 3078.0 | 2232.5 | 1771.6 | 72.0 | 5.1   | 6.0  | 10.3   | 13.7 |
| 42.5° | 3776.2 | 3732.5 | 3601.5 | 3136.3 | 2283.9 | 1805.9 | 62.5 | 3.4   | 6.0  | 9.4    | 13.7 |
| 45°   | 3678.6 | 3630.6 | 3514.9 | 3075.5 | 2217.1 | 1738.2 | 47.1 | 1.7   | 6.0  | 9.4    | 13.7 |
| 47.5° | 3489.2 | 3459.3 | 3368.5 | 2920.4 | 2070.6 | 1585.7 | 33.4 | 0.9   | 5.1  | 8.6    | 12.9 |
| 50°   | 3109.7 | 3081.5 | 2961.5 | 2535.8 | 1781.0 | 1340.7 | 24.0 | 0.9   | 4.3  | 8.6    | 12.9 |
| 52.5° | 2769.6 | 2739.7 | 2567.5 | 2108.3 | 1368.1 | 982.6  | 15.4 | 0.9   | 4.3  | 8.6    | 12.9 |
| 55°   | 2358.4 | 2306.2 | 2080.0 | 1600.3 | 969.8  | 658.8  | 11.1 | 0.9   | 4.3  | 7.7    | 12.9 |
| 57.5° | 1745.9 | 1669.7 | 1467.5 | 1091.4 | 558.6  | 357.2  | 6.0  | 0.9   | 4.3  | 7.7    | 12.9 |
| 60°   | 1187.4 | 1142.0 | 918.4  | 575.7  | 238.2  | 150.8  | 2.6  | 0.9   | 4.3  | 7.7    | 12.0 |
| 62.5° | 719.6  | 662.2  | 461.7  | 245.0  | 102.8  | 68.5   | 0.0  | 1.7   | 4.3  | 7.7    | 12.0 |
| 65°   | 204.7  | 181.6  | 120.8  | 55.7   | 29.1   | 22.3   | 0.0  | 1.7   | 4.3  | 7.7    | 12.0 |
| 67.5° | 6.9    | 6.9    | 6.9    | 6.0    | 4.3    | 4.3    | 0.9  | 1.7   | 4.3  | 7.7    | 11.1 |
| 70°   | 2.6    | 2.6    | 2.6    | 1.7    | 1.7    | 0.9    | 0.9  | 1.7   | 4.3  | 6.9    | 11.1 |
| 72.5° | 1.7    | 1.7    | 1.7    | 1.7    | 0.9    | 0.9    | 0.9  | 1.7   | 3.4  | 6.0    | 10.3 |
| 75°   | 1.7    | 1.7    | 1.7    | 0.9    | 0.9    | 0.9    | 0.9  | 2.6   | 3.4  | 6.0    | 8.6  |
| 77.5° | 1.7    | 1.7    | 1.7    | 0.9    | 0.9    | 0.9    | 0.9  | 2.6   | 3.4  | 5.1    | 8.6  |
| 80°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9  | 2.6   | 3.4  | 5.1    | 6.9  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|-----|-----|-----|-----|-----|-------|-----|-------|-----|--------|------|
| 82.5° | 0.9 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0   | 0.9 | 2.6   | 3.4 | 3.4    | 5.1  |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.9 | 2.6   | 3.4 | 2.6    | 3.4  |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.9 | 2.6   | 2.6 | 2.6    | 1.7  |
| 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):**

|       | 157.5° | 180° |
|-------|--------|------|
| 0°    | 39.4   | 39.4 |
| 2.5°  | 36.8   | 36.8 |
| 5°    | 34.3   | 34.3 |
| 7.5°  | 31.7   | 31.7 |
| 10°   | 29.1   | 29.1 |
| 12.5° | 27.4   | 27.4 |
| 15°   | 24.8   | 25.7 |
| 17.5° | 23.1   | 24.0 |
| 20°   | 22.3   | 23.1 |
| 21°   | 22.3   | 23.1 |
| 22°   | 21.4   | 22.3 |
| 23°   | 21.4   | 22.3 |
| 24°   | 20.6   | 21.4 |
| 25°   | 19.7   | 20.6 |
| 26°   | 19.7   | 20.6 |
| 27°   | 19.7   | 20.6 |
| 28°   | 18.8   | 20.6 |
| 29°   | 18.8   | 19.7 |
| 30°   | 18.8   | 19.7 |
| 31°   | 18.0   | 19.7 |
| 32°   | 18.0   | 19.7 |
| 33°   | 18.0   | 18.8 |
| 34°   | 17.1   | 18.8 |
| 35°   | 17.1   | 18.8 |
| 36°   | 17.1   | 18.8 |
| 37°   | 17.1   | 18.0 |
| 38°   | 17.1   | 18.8 |
| 39°   | 17.1   | 18.0 |
| 40°   | 17.1   | 18.0 |
| 42.5° | 17.1   | 18.0 |
| 45°   | 17.1   | 18.0 |
| 47.5° | 17.1   | 18.8 |
| 50°   | 17.1   | 18.8 |
| 52.5° | 17.1   | 18.8 |
| 55°   | 17.1   | 18.8 |
| 57.5° | 17.1   | 18.0 |
| 60°   | 17.1   | 18.0 |
| 62.5° | 16.3   | 18.0 |
| 65°   | 16.3   | 17.1 |
| 67.5° | 16.3   | 17.1 |
| 70°   | 15.4   | 16.3 |
| 72.5° | 14.6   | 15.4 |
| 75°   | 12.9   | 14.6 |
| 77.5° | 12.0   | 12.9 |
| 80°   | 10.3   | 11.1 |

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CATALOG NUMBER: LDSQA3D13R309024DE010 3LSQCA45R 1MMS

**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 82.5° | 8.6    | 8.6  |
| 85°   | 6.0    | 6.9  |
| 87.5° | 3.4    | 3.4  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)