

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: P1310533

Luminaire Tested: LDSQA3D17R359035DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310533  
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: LDSQA3D17R359035DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 90CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

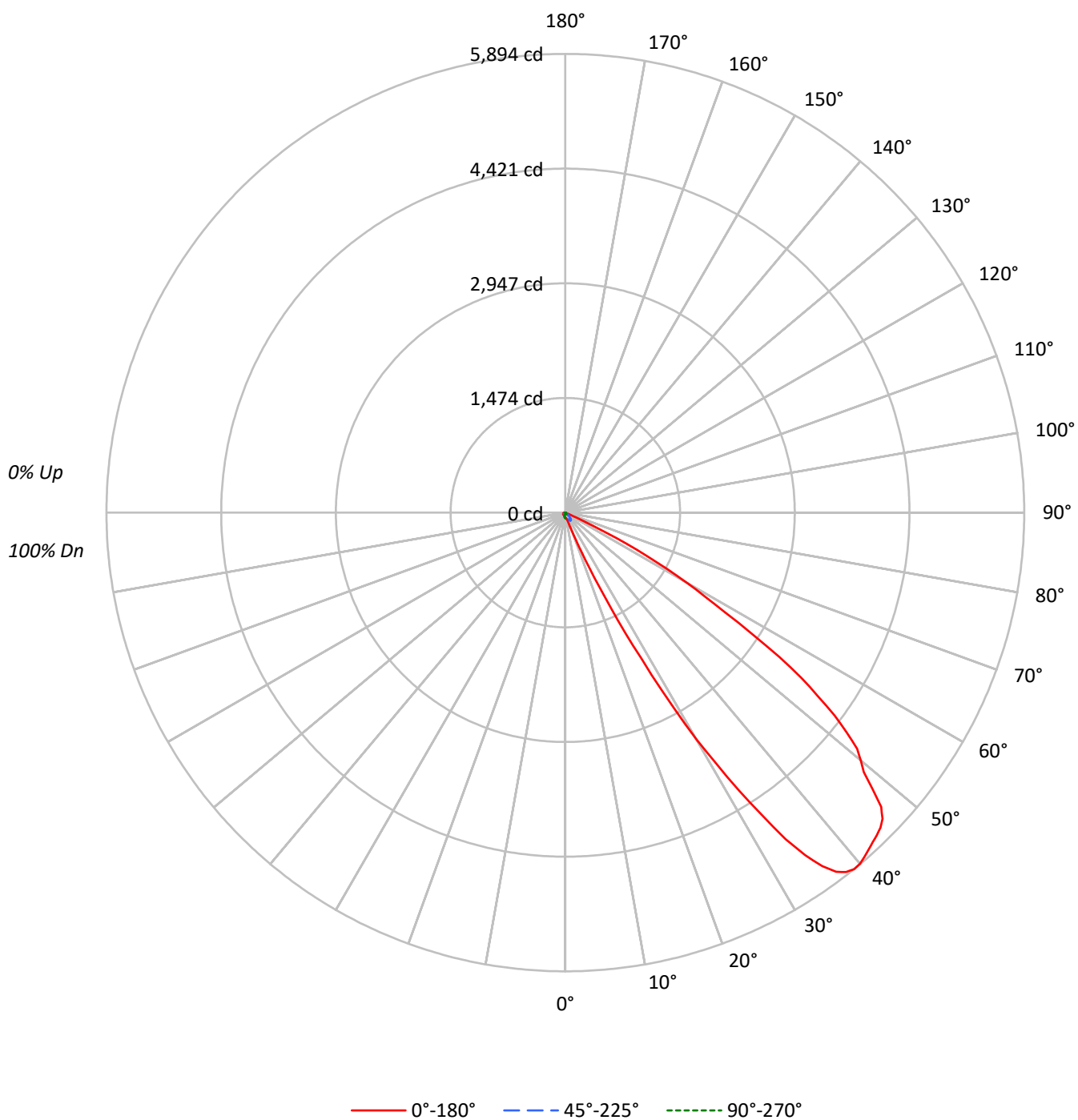
Lumens per Lamp: N/A  
Luminaire Lumens: 1468.0 lumens  
Efficiency: N/A  
Efficacy: 69.2 lumens/watt  
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.2  
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

TEST NUMBER: P1310533

CATALOG NUMBER: LDSQA3D17R359035DE010 3LSQCA45R 1MB

### 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  | 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°  | 11642   | 11642 | 11642 | 11642 | 11642 |
| 5°  | 12603   | 12378 | 11462 | 10304 | 10079 |
| 10° | 13203   | 12049 | 10195 | 8814  | 8814  |
| 15° | 18900   | 11821 | 8273  | 7560  | 7792  |
| 20° | 47358   | 12628 | 6561  | 6561  | 7294  |
| 25° | 219842  | 16114 | 5036  | 6043  | 6803  |
| 30° | 668328  | 21875 | 3957  | 5528  | 6861  |
| 35° | 1129499 | 25356 | 3343  | 5298  | 6686  |
| 40° | 1323992 | 25023 | 2675  | 5373  | 7149  |
| 45° | 1394330 | 17755 | 2265  | 5821  | 7745  |
| 50° | 1327196 | 10664 | 2143  | 6028  | 8520  |
| 55° | 1112137 | 4384  | 2402  | 6756  | 9939  |
| 60° | 622619  | 930   | 2756  | 7750  | 10953 |
| 65° | 107461  | 530   | 2690  | 8639  | 12429 |
| 70° | 2014    | 655   | 3323  | 9366  | 13999 |
| 75° | 1797    | 865   | 4392  | 10580 | 15903 |
| 80° | 1289    | 1289  | 5256  | 11802 | 18447 |
| 85° | 0       | 2569  | 10473 | 13042 | 20946 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 1404193 cd/sqm

TEST NUMBER: P1310533

CATALOG NUMBER: LDSQA3D17R359035DE010 3LSQCA45R 1MB

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 6.1    | 0.4       |
| 10°-20°   | 17.3   | 1.2       |
| 20°-30°   | 90.1   | 6.1       |
| 30°-40°   | 389.0  | 26.5      |
| 40°-50°   | 554.9  | 37.8      |
| 50°-60°   | 343.7  | 23.4      |
| 60°-70°   | 52.3   | 3.6       |
| 70°-80°   | 9.8    | 0.7       |
| 80°-90°   | 4.9    | 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°    | 113.5  | 7.7       |
| 0°-40°    | 502.5  | 34.2      |
| 0°-60°    | 1401.0 | 95.4      |
| 0°-90°    | 1468.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1468.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 68   | 68  | 68  | 68   | 68   |      |
| 5°  | 73   | 72  | 66  | 60   | 58   | 7    |
| 15° | 106  | 66  | 46  | 42   | 44   | 38   |
| 25° | 1157 | 85  | 26  | 32   | 36   | 692  |
| 35° | 5372 | 121 | 16  | 25   | 32   | 3226 |
| 45° | 5725 | 73  | 9   | 24   | 32   | 4325 |
| 55° | 3704 | 15  | 8   | 22   | 33   | 3155 |
| 65° | 264  | 1   | 7   | 21   | 30   | 539  |
| 75° | 3    | 1   | 7   | 16   | 24   | 3    |
| 85° | 0    | 1   | 5   | 7    | 11   | 1    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1310533

CATALOG NUMBER: LDSQA3D17R359035DE010 3LSQCA45R 1MB

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°   | 45°   | 67.5° | 90°  | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|--------|
| 0°    | 67.6   | 67.6   | 67.6   | 67.6   | 67.6   | 67.6   | 67.6  | 67.6  | 67.6  | 67.6 | 67.6   |
| 2.5°  | 70.2   | 70.2   | 70.2   | 70.2   | 70.2   | 70.2   | 70.2  | 70.2  | 70.2  | 67.6 | 66.3   |
| 5°    | 72.9   | 72.9   | 71.6   | 71.6   | 71.6   | 71.6   | 71.6  | 71.6  | 68.9  | 66.3 | 62.3   |
| 7.5°  | 74.2   | 74.2   | 72.9   | 72.9   | 72.9   | 72.9   | 71.6  | 70.2  | 67.6  | 62.3 | 58.3   |
| 10°   | 75.5   | 75.5   | 75.5   | 75.5   | 74.2   | 72.9   | 71.6  | 68.9  | 64.9  | 58.3 | 54.3   |
| 12.5° | 84.8   | 84.8   | 83.5   | 80.8   | 78.2   | 75.5   | 72.9  | 67.6  | 59.6  | 53.0 | 49.0   |
| 15°   | 106.0  | 104.7  | 102.0  | 98.1   | 92.8   | 86.1   | 80.8  | 66.3  | 54.3  | 46.4 | 43.7   |
| 17.5° | 148.4  | 145.8  | 141.8  | 128.5  | 116.6  | 104.7  | 94.1  | 66.3  | 49.0  | 41.1 | 38.4   |
| 20°   | 258.4  | 259.7  | 231.9  | 200.1  | 173.6  | 144.4  | 117.9 | 68.9  | 43.7  | 35.8 | 34.5   |
| 22.5° | 539.3  | 518.1  | 451.9  | 375.0  | 286.2  | 221.3  | 167.0 | 75.5  | 38.4  | 30.5 | 30.5   |
| 25°   | 1156.9 | 1076.0 | 915.7  | 691.7  | 487.7  | 345.9  | 242.5 | 84.8  | 34.5  | 26.5 | 27.8   |
| 27.5° | 2112.3 | 2039.5 | 1717.4 | 1293.4 | 858.7  | 522.1  | 328.6 | 96.7  | 30.5  | 22.5 | 25.2   |
| 30°   | 3360.7 | 3159.2 | 2739.2 | 2120.3 | 1435.2 | 799.1  | 441.3 | 110.0 | 25.2  | 19.9 | 23.9   |
| 31°   | 3750.3 | 3657.5 | 3146.0 | 2452.9 | 1681.7 | 948.8  | 489.0 | 114.0 | 23.9  | 19.9 | 22.5   |
| 32°   | 4212.8 | 4048.4 | 3589.9 | 2817.3 | 1932.1 | 1082.7 | 546.0 | 117.9 | 22.5  | 17.2 | 22.5   |
| 33°   | 4626.2 | 4467.2 | 3909.3 | 3138.0 | 2185.2 | 1235.1 | 606.9 | 119.3 | 19.9  | 17.2 | 21.2   |
| 34°   | 5060.9 | 4843.5 | 4290.9 | 3473.3 | 2445.0 | 1399.4 | 662.6 | 120.6 | 18.6  | 15.9 | 21.2   |
| 35°   | 5372.3 | 5155.0 | 4619.6 | 3738.3 | 2668.9 | 1545.2 | 726.2 | 120.6 | 17.2  | 15.9 | 19.9   |
| 36°   | 5613.5 | 5422.7 | 4903.2 | 4011.3 | 2891.6 | 1676.4 | 776.6 | 120.6 | 14.6  | 14.6 | 19.9   |
| 37°   | 5779.1 | 5597.6 | 5094.0 | 4245.9 | 3061.2 | 1793.0 | 821.6 | 120.6 | 13.3  | 14.6 | 19.9   |
| 38°   | 5860.0 | 5708.9 | 5278.2 | 4416.8 | 3225.5 | 1884.4 | 857.4 | 117.9 | 11.9  | 13.3 | 18.6   |
| 39°   | 5894.4 | 5771.2 | 5390.8 | 4561.3 | 3348.7 | 1963.9 | 883.9 | 115.3 | 10.6  | 13.3 | 18.6   |
| 40°   | 5889.1 | 5781.8 | 5454.5 | 4660.7 | 3448.1 | 2018.3 | 898.5 | 111.3 | 9.3   | 11.9 | 18.6   |
| 41°   | 5858.6 | 5765.9 | 5487.6 | 4745.5 | 3507.8 | 2055.4 | 902.5 | 107.3 | 8.0   | 11.9 | 17.2   |
| 42°   | 5824.2 | 5739.4 | 5498.2 | 4790.5 | 3546.2 | 2067.3 | 891.8 | 102.0 | 8.0   | 10.6 | 17.2   |
| 43°   | 5788.4 | 5710.2 | 5498.2 | 4805.1 | 3555.5 | 2059.3 | 874.6 | 92.8  | 6.6   | 10.6 | 17.2   |
| 44°   | 5759.3 | 5685.0 | 5481.0 | 4801.1 | 3535.6 | 2028.9 | 842.8 | 82.2  | 5.3   | 10.6 | 17.2   |
| 45°   | 5724.8 | 5651.9 | 5458.4 | 4776.0 | 3497.2 | 1977.2 | 803.1 | 72.9  | 4.0   | 9.3  | 17.2   |
| 46°   | 5663.8 | 5606.9 | 5418.7 | 4724.3 | 3436.2 | 1905.6 | 752.7 | 66.3  | 2.7   | 9.3  | 15.9   |
| 47°   | 5545.9 | 5496.9 | 5341.8 | 4647.4 | 3355.4 | 1820.8 | 701.0 | 59.6  | 2.7   | 9.3  | 15.9   |
| 48°   | 5308.7 | 5307.4 | 5188.1 | 4504.3 | 3226.8 | 1714.8 | 646.7 | 53.0  | 2.7   | 9.3  | 15.9   |
| 49°   | 5079.4 | 5055.6 | 4907.2 | 4252.5 | 3042.6 | 1587.6 | 589.7 | 47.7  | 1.3   | 9.3  | 15.9   |
| 50°   | 4953.5 | 4901.9 | 4658.0 | 3955.7 | 2806.7 | 1411.3 | 528.7 | 39.8  | 1.3   | 8.0  | 15.9   |
| 51°   | 4822.3 | 4748.1 | 4460.6 | 3688.0 | 2525.8 | 1241.7 | 462.5 | 31.8  | 1.3   | 8.0  | 14.6   |
| 52°   | 4585.1 | 4514.9 | 4192.9 | 3432.2 | 2252.8 | 1068.1 | 398.9 | 26.5  | 1.3   | 8.0  | 15.9   |
| 53°   | 4329.4 | 4228.7 | 3878.8 | 3151.3 | 2013.0 | 914.4  | 333.9 | 22.5  | 1.3   | 8.0  | 14.6   |
| 54°   | 4007.4 | 3962.3 | 3560.8 | 2806.7 | 1732.0 | 766.0  | 274.3 | 18.6  | 1.3   | 8.0  | 14.6   |
| 55°   | 3703.9 | 3637.6 | 3220.2 | 2454.2 | 1477.6 | 628.1  | 229.3 | 14.6  | 1.3   | 8.0  | 14.6   |
| 56°   | 3316.9 | 3217.5 | 2826.6 | 2130.9 | 1219.2 | 506.2  | 193.5 | 11.9  | 1.3   | 8.0  | 14.6   |
| 57°   | 2855.8 | 2749.8 | 2441.0 | 1771.8 | 956.8  | 385.6  | 161.7 | 9.3   | 1.3   | 8.0  | 14.6   |
| 58°   | 2415.8 | 2324.4 | 1993.1 | 1367.6 | 720.9  | 267.7  | 133.8 | 6.6   | 1.3   | 6.6  | 14.6   |
| 59°   | 2087.2 | 1986.5 | 1657.8 | 1052.2 | 500.9  | 197.5  | 100.7 | 5.3   | 1.3   | 8.0  | 14.6   |
| 60°   | 1807.6 | 1677.7 | 1334.5 | 815.0  | 357.8  | 141.8  | 74.2  | 2.7   | 2.7   | 8.0  | 14.6   |
| 62.5° | 1041.6 | 919.7  | 637.4  | 331.3  | 147.1  | 72.9   | 35.8  | 1.3   | 2.7   | 8.0  | 14.6   |
| 65°   | 263.7  | 234.6  | 152.4  | 71.6   | 41.1   | 25.2   | 13.3  | 1.3   | 2.7   | 6.6  | 13.3   |



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CATALOG NUMBER: LDSQA3D17R359035DE010 3LSQCA45R 1MB

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|--------|
| 67.5° | 9.3 | 9.3 | 9.3 | 8.0 | 6.6 | 5.3 | 2.7 | 1.3 | 2.7   | 6.6 | 13.3   |
| 70°   | 4.0 | 4.0 | 4.0 | 2.7 | 2.7 | 1.3 | 1.3 | 1.3 | 2.7   | 6.6 | 11.9   |
| 72.5° | 2.7 | 2.7 | 2.7 | 2.7 | 1.3 | 1.3 | 1.3 | 1.3 | 4.0   | 6.6 | 10.6   |
| 75°   | 2.7 | 2.7 | 2.7 | 2.7 | 1.3 | 1.3 | 1.3 | 1.3 | 4.0   | 6.6 | 10.6   |
| 77.5° | 2.7 | 2.7 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 4.0   | 5.3 | 9.3    |
| 80°   | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 4.0   | 5.3 | 8.0    |
| 82.5° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 4.0   | 5.3 | 6.6    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 1.3 | 4.0   | 5.3 | 5.3    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 4.0   | 5.3 | 4.0    |
| 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: P1310533

CATALOG NUMBER: LDSQA3D17R359035DE010 3LSQCA45R 1MB

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 67.6 | 67.6   | 67.6 |
| 2.5°  | 63.6 | 63.6   | 63.6 |
| 5°    | 59.6 | 59.6   | 58.3 |
| 7.5°  | 55.7 | 54.3   | 54.3 |
| 10°   | 50.4 | 50.4   | 50.4 |
| 12.5° | 46.4 | 46.4   | 46.4 |
| 15°   | 42.4 | 43.7   | 43.7 |
| 17.5° | 38.4 | 41.1   | 41.1 |
| 20°   | 35.8 | 38.4   | 39.8 |
| 22.5° | 33.1 | 35.8   | 37.1 |
| 25°   | 31.8 | 34.5   | 35.8 |
| 27.5° | 29.2 | 33.1   | 35.8 |
| 30°   | 27.8 | 31.8   | 34.5 |
| 31°   | 27.8 | 31.8   | 33.1 |
| 32°   | 26.5 | 31.8   | 33.1 |
| 33°   | 26.5 | 31.8   | 33.1 |
| 34°   | 26.5 | 30.5   | 33.1 |
| 35°   | 25.2 | 30.5   | 31.8 |
| 36°   | 25.2 | 30.5   | 31.8 |
| 37°   | 25.2 | 30.5   | 33.1 |
| 38°   | 25.2 | 30.5   | 31.8 |
| 39°   | 23.9 | 30.5   | 31.8 |
| 40°   | 23.9 | 30.5   | 31.8 |
| 41°   | 23.9 | 30.5   | 31.8 |
| 42°   | 23.9 | 30.5   | 31.8 |
| 43°   | 23.9 | 30.5   | 31.8 |
| 44°   | 23.9 | 29.2   | 31.8 |
| 45°   | 23.9 | 29.2   | 31.8 |
| 46°   | 23.9 | 30.5   | 31.8 |
| 47°   | 23.9 | 30.5   | 33.1 |
| 48°   | 23.9 | 29.2   | 31.8 |
| 49°   | 22.5 | 29.2   | 31.8 |
| 50°   | 22.5 | 29.2   | 31.8 |
| 51°   | 22.5 | 30.5   | 33.1 |
| 52°   | 22.5 | 30.5   | 33.1 |
| 53°   | 22.5 | 30.5   | 33.1 |
| 54°   | 22.5 | 30.5   | 31.8 |
| 55°   | 22.5 | 30.5   | 33.1 |
| 56°   | 22.5 | 30.5   | 31.8 |
| 57°   | 22.5 | 30.5   | 31.8 |
| 58°   | 22.5 | 29.2   | 31.8 |
| 59°   | 22.5 | 29.2   | 31.8 |
| 60°   | 22.5 | 29.2   | 31.8 |
| 62.5° | 21.2 | 29.2   | 31.8 |
| 65°   | 21.2 | 27.8   | 30.5 |





TEST NUMBER: P1310533

CATALOG NUMBER: LDSQA3D17R359035DE010 3LSQCA45R 1MB

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 67.5° | 19.9 | 27.8   | 29.2 |
| 70°   | 18.6 | 26.5   | 27.8 |
| 72.5° | 17.2 | 25.2   | 26.5 |
| 75°   | 15.9 | 22.5   | 23.9 |
| 77.5° | 13.3 | 19.9   | 22.5 |
| 80°   | 11.9 | 17.2   | 18.6 |
| 82.5° | 9.3  | 14.6   | 15.9 |
| 85°   | 6.6  | 10.6   | 10.6 |
| 87.5° | 2.7  | 5.3    | 5.3  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)