

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: P1309415

Luminaire Tested: LDSQA3D17R359030DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

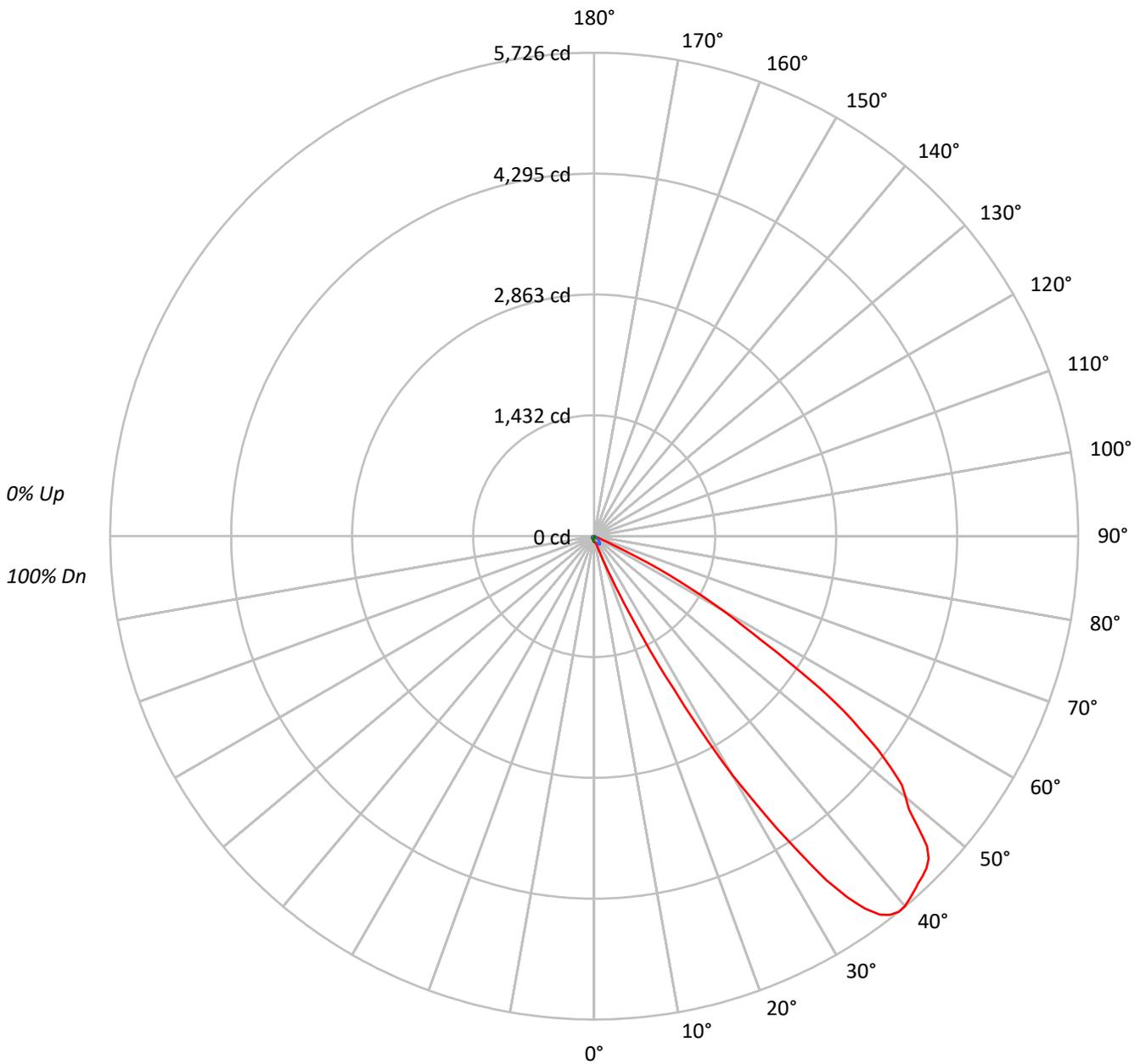
Test Method: LM-79-2019  
Report Number: P1309415  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R359030DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R35 optic, 3000K CCT AND, 90CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1426.0 lumens  
Efficiency: N/A  
Efficacy: 67.3 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 (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: P1309415  
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### Luminous Intensity Polar Plot



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



TEST NUMBER: P1309415

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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°  | 11315   | 11315 | 11315 | 11315 | 11315 |
| 5°  | 12240   | 12015 | 11134 | 10010 | 9785  |
| 10° | 12836   | 11699 | 9898  | 8552  | 8552  |
| 15° | 18365   | 11482 | 8041  | 7346  | 7578  |
| 20° | 46002   | 12261 | 6378  | 6378  | 7074  |
| 25° | 213552  | 15658 | 4884  | 5872  | 6613  |
| 30° | 649197  | 21239 | 3838  | 5369  | 6662  |
| 35° | 1097185 | 24620 | 3238  | 5151  | 6497  |
| 40° | 1286109 | 24303 | 2608  | 5216  | 6947  |
| 45° | 1354435 | 17244 | 2192  | 5651  | 7526  |
| 50° | 1289230 | 10342 | 2063  | 5868  | 8279  |
| 55° | 1080309 | 4264  | 2312  | 6576  | 9668  |
| 60° | 604777  | 896   | 2652  | 7543  | 10643 |
| 65° | 104405  | 530   | 2608  | 8395  | 12062 |
| 70° | 1964    | 655   | 3223  | 9064  | 13596 |
| 75° | 1730    | 865   | 4259  | 10247 | 15438 |
| 80° | 1289    | 1289  | 5058  | 11505 | 17852 |
| 85° | 0       | 2569  | 10078 | 12647 | 20353 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 46°  
 Luminance: 1364030 cd/sqm



TEST NUMBER: P1309415

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.9    | 0.4       |
| 10°-20°   | 16.8   | 1.2       |
| 20°-30°   | 87.5   | 6.1       |
| 30°-40°   | 377.9  | 26.5      |
| 40°-50°   | 539.0  | 37.8      |
| 50°-60°   | 333.8  | 23.4      |
| 60°-70°   | 50.8   | 3.6       |
| 70°-80°   | 9.5    | 0.7       |
| 80°-90°   | 4.8    | 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°    | 110.2  | 7.7       |
| 0°-40°    | 488.1  | 34.2      |
| 0°-60°    | 1360.9 | 95.4      |
| 0°-90°    | 1426.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1426.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 66   | 66  | 66  | 66   | 66   |      |
| 5°  | 71   | 70  | 64  | 58   | 57   | 7    |
| 15° | 103  | 64  | 45  | 41   | 42   | 37   |
| 25° | 1124 | 82  | 26  | 31   | 35   | 672  |
| 35° | 5219 | 117 | 15  | 24   | 31   | 3133 |
| 45° | 5561 | 71  | 9   | 23   | 31   | 4201 |
| 55° | 3598 | 14  | 8   | 22   | 32   | 3064 |
| 65° | 256  | 1   | 6   | 21   | 30   | 523  |
| 75° | 3    | 1   | 6   | 15   | 23   | 3    |
| 85° | 0    | 1   | 5   | 6    | 10   | 1    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |



TEST NUMBER: P1309415  
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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°   | 45°   | 67.5° | 90°  | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|--------|
| 0°    | 65.7   | 65.7   | 65.7   | 65.7   | 65.7   | 65.7   | 65.7  | 65.7  | 65.7  | 65.7 | 65.7   |
| 2.5°  | 68.2   | 68.2   | 68.2   | 68.2   | 68.2   | 68.2   | 68.2  | 68.2  | 68.2  | 65.7 | 64.4   |
| 5°    | 70.8   | 70.8   | 69.5   | 69.5   | 69.5   | 69.5   | 69.5  | 69.5  | 66.9  | 64.4 | 60.5   |
| 7.5°  | 72.1   | 72.1   | 70.8   | 70.8   | 70.8   | 70.8   | 69.5  | 68.2  | 65.7  | 60.5 | 56.6   |
| 10°   | 73.4   | 73.4   | 73.4   | 73.4   | 72.1   | 70.8   | 69.5  | 66.9  | 63.1  | 56.6 | 52.8   |
| 12.5° | 82.4   | 82.4   | 81.1   | 78.5   | 75.9   | 73.4   | 70.8  | 65.7  | 57.9  | 51.5 | 47.6   |
| 15°   | 103.0  | 101.7  | 99.1   | 95.3   | 90.1   | 83.7   | 78.5  | 64.4  | 52.8  | 45.1 | 42.5   |
| 17.5° | 144.2  | 141.6  | 137.7  | 124.9  | 113.3  | 101.7  | 91.4  | 64.4  | 47.6  | 39.9 | 37.3   |
| 20°   | 251.0  | 252.3  | 225.3  | 194.4  | 168.6  | 140.3  | 114.6 | 66.9  | 42.5  | 34.8 | 33.5   |
| 22.5° | 523.9  | 503.3  | 439.0  | 364.3  | 278.1  | 215.0  | 162.2 | 73.4  | 37.3  | 29.6 | 29.6   |
| 25°   | 1123.8 | 1045.3 | 889.5  | 672.0  | 473.7  | 336.0  | 235.6 | 82.4  | 33.5  | 25.7 | 27.0   |
| 27.5° | 2051.9 | 1981.1 | 1668.3 | 1256.4 | 834.2  | 507.2  | 319.2 | 94.0  | 29.6  | 21.9 | 24.5   |
| 30°   | 3264.5 | 3068.9 | 2660.8 | 2059.6 | 1394.1 | 776.2  | 428.7 | 106.8 | 24.5  | 19.3 | 23.2   |
| 31°   | 3643.0 | 3552.9 | 3056.0 | 2382.7 | 1633.5 | 921.7  | 475.0 | 110.7 | 23.2  | 19.3 | 21.9   |
| 32°   | 4092.2 | 3932.6 | 3487.2 | 2736.7 | 1876.8 | 1051.7 | 530.4 | 114.6 | 21.9  | 16.7 | 21.9   |
| 33°   | 4493.9 | 4339.4 | 3797.4 | 3048.3 | 2122.7 | 1199.7 | 589.6 | 115.9 | 19.3  | 16.7 | 20.6   |
| 34°   | 4916.1 | 4705.0 | 4168.2 | 3373.9 | 2375.0 | 1359.4 | 643.6 | 117.1 | 18.0  | 15.4 | 20.6   |
| 35°   | 5218.6 | 5007.5 | 4487.4 | 3631.4 | 2592.6 | 1501.0 | 705.4 | 117.1 | 16.7  | 15.4 | 19.3   |
| 36°   | 5452.9 | 5267.5 | 4762.9 | 3896.6 | 2808.8 | 1628.4 | 754.3 | 117.1 | 14.2  | 14.2 | 19.3   |
| 37°   | 5613.8 | 5437.4 | 4948.3 | 4124.4 | 2973.6 | 1741.7 | 798.1 | 117.1 | 12.9  | 14.2 | 19.3   |
| 38°   | 5692.3 | 5545.6 | 5127.2 | 4290.5 | 3133.2 | 1830.5 | 832.9 | 114.6 | 11.6  | 12.9 | 18.0   |
| 39°   | 5725.8 | 5606.1 | 5236.6 | 4430.8 | 3252.9 | 1907.7 | 858.6 | 112.0 | 10.3  | 12.9 | 18.0   |
| 40°   | 5720.6 | 5616.4 | 5298.4 | 4527.3 | 3349.5 | 1960.5 | 872.8 | 108.1 | 9.0   | 11.6 | 18.0   |
| 41°   | 5691.0 | 5600.9 | 5330.6 | 4609.7 | 3407.4 | 1996.6 | 876.6 | 104.3 | 7.7   | 11.6 | 16.7   |
| 42°   | 5657.6 | 5575.2 | 5340.9 | 4653.5 | 3444.7 | 2008.1 | 866.3 | 99.1  | 7.7   | 10.3 | 16.7   |
| 43°   | 5622.8 | 5546.8 | 5340.9 | 4667.6 | 3453.7 | 2000.4 | 849.6 | 90.1  | 6.4   | 10.3 | 16.7   |
| 44°   | 5594.5 | 5522.4 | 5324.1 | 4663.8 | 3434.4 | 1970.8 | 818.7 | 79.8  | 5.1   | 10.3 | 16.7   |
| 45°   | 5561.0 | 5490.2 | 5302.3 | 4639.3 | 3397.1 | 1920.6 | 780.1 | 70.8  | 3.9   | 9.0  | 16.7   |
| 46°   | 5501.8 | 5446.4 | 5263.6 | 4589.1 | 3337.9 | 1851.1 | 731.2 | 64.4  | 2.6   | 9.0  | 15.4   |
| 47°   | 5387.2 | 5339.6 | 5189.0 | 4514.5 | 3259.4 | 1768.7 | 681.0 | 57.9  | 2.6   | 9.0  | 15.4   |
| 48°   | 5156.8 | 5155.5 | 5039.7 | 4375.4 | 3134.5 | 1665.7 | 628.2 | 51.5  | 2.6   | 9.0  | 15.4   |
| 49°   | 4934.1 | 4910.9 | 4766.8 | 4130.9 | 2955.6 | 1542.1 | 572.8 | 46.3  | 1.3   | 9.0  | 15.4   |
| 50°   | 4811.8 | 4761.6 | 4524.8 | 3842.5 | 2726.4 | 1370.9 | 513.6 | 38.6  | 1.3   | 7.7  | 15.4   |
| 51°   | 4684.4 | 4612.3 | 4333.0 | 3582.5 | 2453.5 | 1206.2 | 449.3 | 30.9  | 1.3   | 7.7  | 14.2   |
| 52°   | 4454.0 | 4385.7 | 4072.9 | 3334.0 | 2188.4 | 1037.5 | 387.5 | 25.7  | 1.3   | 7.7  | 15.4   |
| 53°   | 4205.5 | 4107.7 | 3767.8 | 3061.1 | 1955.4 | 888.2  | 324.4 | 21.9  | 1.3   | 7.7  | 14.2   |
| 54°   | 3892.7 | 3848.9 | 3458.9 | 2726.4 | 1682.5 | 744.0  | 266.5 | 18.0  | 1.3   | 7.7  | 14.2   |
| 55°   | 3597.9 | 3533.6 | 3128.1 | 2384.0 | 1435.3 | 610.2  | 222.7 | 14.2  | 1.3   | 7.7  | 14.2   |
| 56°   | 3222.0 | 3125.5 | 2745.7 | 2069.9 | 1184.3 | 491.7  | 187.9 | 11.6  | 1.3   | 7.7  | 14.2   |
| 57°   | 2774.1 | 2671.1 | 2371.2 | 1721.1 | 929.4  | 374.6  | 157.0 | 9.0   | 1.3   | 7.7  | 14.2   |
| 58°   | 2346.7 | 2257.9 | 1936.1 | 1328.5 | 700.3  | 260.0  | 130.0 | 6.4   | 1.3   | 6.4  | 14.2   |
| 59°   | 2027.5 | 1929.6 | 1610.4 | 1022.1 | 486.6  | 191.8  | 97.8  | 5.1   | 1.3   | 7.7  | 14.2   |
| 60°   | 1755.8 | 1629.7 | 1296.3 | 791.7  | 347.6  | 137.7  | 72.1  | 2.6   | 2.6   | 7.7  | 14.2   |
| 62.5° | 1011.8 | 893.4  | 619.2  | 321.8  | 142.9  | 70.8   | 34.8  | 1.3   | 2.6   | 7.7  | 14.2   |
| 65°   | 256.2  | 227.8  | 148.0  | 69.5   | 39.9   | 24.5   | 12.9  | 1.3   | 2.6   | 6.4  | 12.9   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|--------|
| 67.5° | 9.0 | 9.0 | 9.0 | 7.7 | 6.4 | 5.1 | 2.6 | 1.3 | 2.6   | 6.4 | 12.9   |
| 70°   | 3.9 | 3.9 | 3.9 | 2.6 | 2.6 | 1.3 | 1.3 | 1.3 | 2.6   | 6.4 | 11.6   |
| 72.5° | 2.6 | 2.6 | 2.6 | 2.6 | 1.3 | 1.3 | 1.3 | 1.3 | 3.9   | 6.4 | 10.3   |
| 75°   | 2.6 | 2.6 | 2.6 | 2.6 | 1.3 | 1.3 | 1.3 | 1.3 | 3.9   | 6.4 | 10.3   |
| 77.5° | 2.6 | 2.6 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 3.9   | 5.1 | 9.0    |
| 80°   | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 3.9   | 5.1 | 7.7    |
| 82.5° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 3.9   | 5.1 | 6.4    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 1.3 | 3.9   | 5.1 | 5.1    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 3.9   | 5.1 | 3.9    |
| 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: LDSQA3D17R359030DE010 3LSQCA45R 1MB

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 65.7 | 65.7   | 65.7 |
| 2.5°  | 61.8 | 61.8   | 61.8 |
| 5°    | 57.9 | 57.9   | 56.6 |
| 7.5°  | 54.1 | 52.8   | 52.8 |
| 10°   | 48.9 | 48.9   | 48.9 |
| 12.5° | 45.1 | 45.1   | 45.1 |
| 15°   | 41.2 | 42.5   | 42.5 |
| 17.5° | 37.3 | 39.9   | 39.9 |
| 20°   | 34.8 | 37.3   | 38.6 |
| 22.5° | 32.2 | 34.8   | 36.0 |
| 25°   | 30.9 | 33.5   | 34.8 |
| 27.5° | 28.3 | 32.2   | 34.8 |
| 30°   | 27.0 | 30.9   | 33.5 |
| 31°   | 27.0 | 30.9   | 32.2 |
| 32°   | 25.7 | 30.9   | 32.2 |
| 33°   | 25.7 | 30.9   | 32.2 |
| 34°   | 25.7 | 29.6   | 32.2 |
| 35°   | 24.5 | 29.6   | 30.9 |
| 36°   | 24.5 | 29.6   | 30.9 |
| 37°   | 24.5 | 29.6   | 32.2 |
| 38°   | 24.5 | 29.6   | 30.9 |
| 39°   | 23.2 | 29.6   | 30.9 |
| 40°   | 23.2 | 29.6   | 30.9 |
| 41°   | 23.2 | 29.6   | 30.9 |
| 42°   | 23.2 | 29.6   | 30.9 |
| 43°   | 23.2 | 29.6   | 30.9 |
| 44°   | 23.2 | 28.3   | 30.9 |
| 45°   | 23.2 | 28.3   | 30.9 |
| 46°   | 23.2 | 29.6   | 30.9 |
| 47°   | 23.2 | 29.6   | 32.2 |
| 48°   | 23.2 | 28.3   | 30.9 |
| 49°   | 21.9 | 28.3   | 30.9 |
| 50°   | 21.9 | 28.3   | 30.9 |
| 51°   | 21.9 | 29.6   | 32.2 |
| 52°   | 21.9 | 29.6   | 32.2 |
| 53°   | 21.9 | 29.6   | 32.2 |
| 54°   | 21.9 | 29.6   | 30.9 |
| 55°   | 21.9 | 29.6   | 32.2 |
| 56°   | 21.9 | 29.6   | 30.9 |
| 57°   | 21.9 | 29.6   | 30.9 |
| 58°   | 21.9 | 28.3   | 30.9 |
| 59°   | 21.9 | 28.3   | 30.9 |
| 60°   | 21.9 | 28.3   | 30.9 |
| 62.5° | 20.6 | 28.3   | 30.9 |
| 65°   | 20.6 | 27.0   | 29.6 |



TEST NUMBER: P1309415  
CATALOG NUMBER: LDSQA3D17R359030DE010 3LSQCA45R 1MB

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 67.5° | 19.3 | 27.0   | 28.3 |
| 70°   | 18.0 | 25.7   | 27.0 |
| 72.5° | 16.7 | 24.5   | 25.7 |
| 75°   | 15.4 | 21.9   | 23.2 |
| 77.5° | 12.9 | 19.3   | 21.9 |
| 80°   | 11.6 | 16.7   | 18.0 |
| 82.5° | 9.0  | 14.2   | 15.4 |
| 85°   | 6.4  | 10.3   | 10.3 |
| 87.5° | 2.6  | 5.1    | 5.1  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)