

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P208825

Luminaire Tested: **LDSQA6A15930D010TE LARL15SP 6LSQA1H 30°**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P208825  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29054)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDSQA6A15930D010TE LARL15SP 6LSQA1H 30°  
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,  
SELF-FLANGED, 15° SPOT, 30° Tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1023.8 lumens  
Efficiency: N/A  
Efficacy: 47.0 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 0.62 / 1.12  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

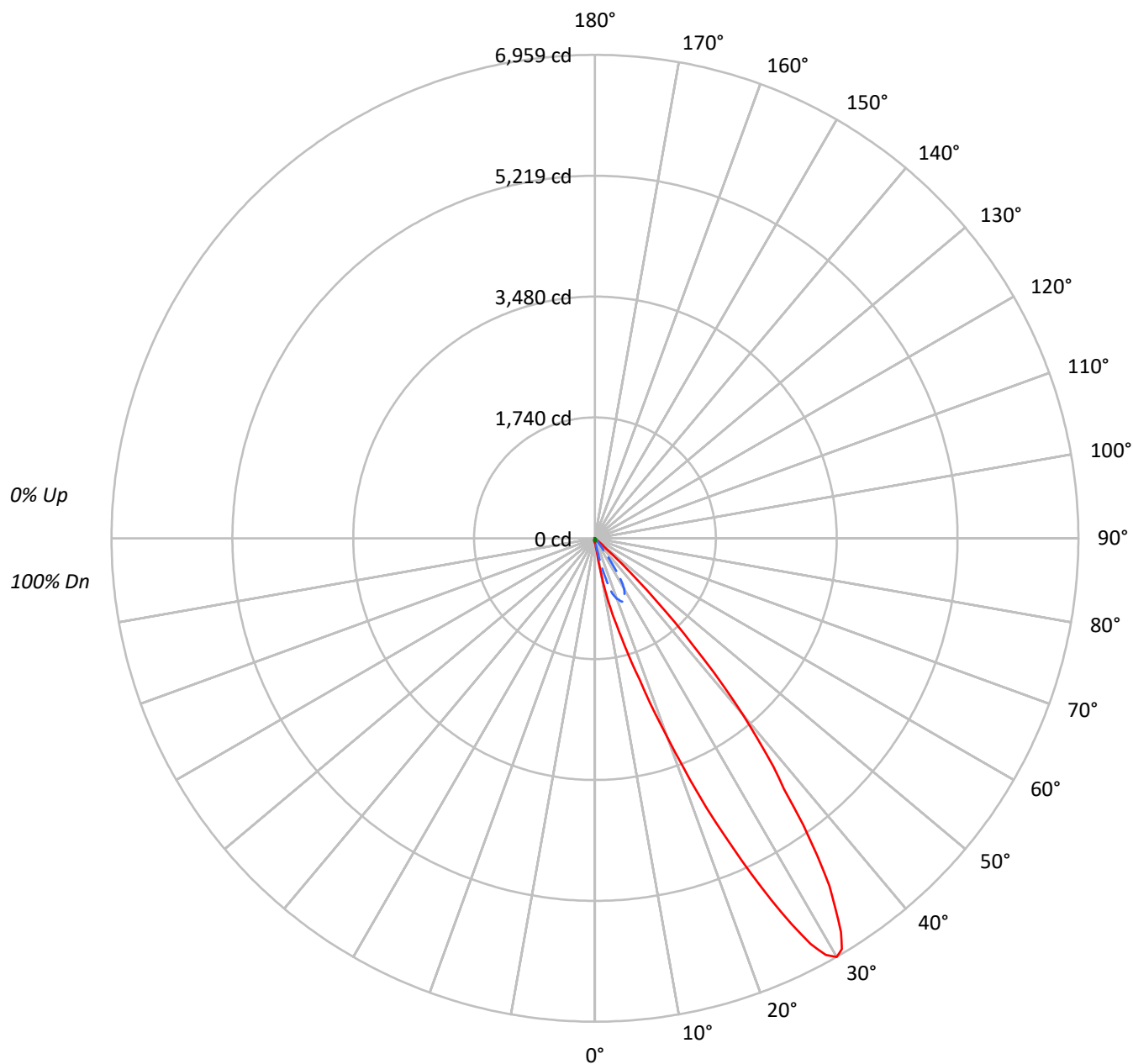
Input Watts (W): 21.79  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 |
| 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   | 113 | 109 | 106 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 91  |    |    |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 87  | 85  | 83  |    |    |
| 3   | 99  | 91  | 86  | 81  | 97  | 90  | 85  | 80  | 87  | 83  | 79  | 85  | 81  | 78  | 82  | 79  | 76  | 75  |    |    |
| 4   | 93  | 84  | 77  | 72  | 91  | 82  | 76  | 72  | 80  | 75  | 71  | 78  | 73  | 70  | 76  | 72  | 69  | 67  |    |    |
| 5   | 86  | 76  | 70  | 64  | 85  | 75  | 69  | 64  | 74  | 68  | 63  | 72  | 67  | 63  | 70  | 66  | 62  | 61  |    |    |
| 6   | 81  | 70  | 63  | 58  | 79  | 69  | 62  | 58  | 68  | 62  | 57  | 66  | 61  | 57  | 65  | 60  | 56  | 55  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 51  | 49  |    |    |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |    |    |
| 9   | 66  | 54  | 47  | 42  | 65  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |
| 10  | 62  | 50  | 43  | 38  | 60  | 50  | 43  | 38  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 36  |    |    |

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

|     | 0°     | 90°  | 180° |
|-----|--------|------|------|
| 0°  | 2889   | 2889 | 2889 |
| 5°  | 4456   | 2736 | 2196 |
| 10° | 23897  | 2431 | 1823 |
| 15° | 65894  | 1966 | 1560 |
| 20° | 139926 | 1471 | 1361 |
| 25° | 253282 | 1069 | 1183 |
| 30° | 345996 | 786  | 1049 |
| 35° | 293287 | 552  | 957  |
| 40° | 186174 | 377  | 916  |
| 45° | 64525  | 292  | 846  |
| 50° | 3952   | 228  | 737  |
| 55° | 683    | 180  | 578  |
| 60° | 164    | 164  | 370  |
| 65° | 102    | 194  | 295  |
| 70° | 126    | 239  | 302  |
| 75° | 0      | 316  | 316  |
| 80° | 0      | 471  | 248  |
| 85° | 0      | 939  | 247  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 8.3    | 0.8       |
| 10°-20°   | 105.3  | 10.3      |
| 20°-30°   | 365.9  | 35.7      |
| 30°-40°   | 401.1  | 39.2      |
| 40°-50°   | 132.3  | 12.9      |
| 50°-60°   | 5.5    | 0.5       |
| 60°-70°   | 2.4    | 0.2       |
| 70°-80°   | 1.8    | 0.2       |
| 80°-90°   | 1.2    | 0.1       |
| 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°    | 479.5  | 46.8      |
| 0°-40°    | 880.6  | 86.0      |
| 0°-60°    | 1018.4 | 99.5      |
| 0°-90°    | 1023.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1023.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 67   | 67  | 67  | 67   | 67   |      |
| 5°  | 103  | 84  | 63  | 54   | 51   | 22   |
| 15° | 1478 | 603 | 44  | 36   | 35   | 491  |
| 25° | 5332 | 988 | 22  | 22   | 25   | 2495 |
| 35° | 5580 | 329 | 10  | 14   | 18   | 3354 |
| 45° | 1060 | 16  | 5   | 10   | 14   | 934  |
| 55° | 9    | 2   | 2   | 6    | 8    | 13   |
| 65° | 1    | 1   | 2   | 4    | 3    | 1    |
| 75° | 0    | 1   | 2   | 2    | 2    | 0    |
| 85° | 0    | 1   | 2   | 1    | 0    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |



TEST NUMBER: P208825

CATALOG NUMBER: LDSQA6A15930D010TE LARL15SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°    | 22.5°  | 25°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 67.1   | 67.1   | 67.1   | 67.1   | 67.1   | 67.1   | 67.1   | 67.1   | 67.1   | 67.1   | 67.1   |
| 2.5°  | 79.6   | 79.1   | 79.1   | 79.1   | 78.6   | 77.7   | 77.7   | 78.2   | 78.2   | 77.7   | 78.2   |
| 5°    | 103.1  | 102.1  | 101.7  | 101.2  | 99.3   | 98.8   | 96.9   | 98.3   | 96.9   | 95.4   | 95.4   |
| 7.5°  | 188.9  | 188.4  | 180.3  | 175.0  | 165.9  | 155.4  | 152.5  | 153.0  | 146.2  | 140.0  | 136.2  |
| 10°   | 546.6  | 547.6  | 523.6  | 533.2  | 498.7  | 484.8  | 458.4  | 448.8  | 424.8  | 404.7  | 380.2  |
| 11°   | 731.2  | 730.3  | 700.1  | 709.2  | 674.2  | 654.5  | 624.8  | 609.4  | 579.2  | 559.1  | 528.4  |
| 12°   | 930.7  | 901.5  | 891.4  | 900.0  | 864.1  | 838.2  | 802.2  | 782.5  | 745.1  | 724.5  | 687.6  |
| 13°   | 1128.3 | 1119.6 | 1086.1 | 1094.2 | 1057.3 | 1000.7 | 985.8  | 962.4  | 918.7  | 894.3  | 853.0  |
| 14°   | 1299.4 | 1267.8 | 1257.2 | 1262.5 | 1226.1 | 1172.4 | 1157.5 | 1150.3 | 1083.2 | 1056.8 | 1010.8 |
| 15°   | 1478.3 | 1439.9 | 1425.1 | 1405.4 | 1383.8 | 1320.1 | 1298.5 | 1284.6 | 1215.0 | 1170.9 | 1141.2 |
| 17.5° | 2128.5 | 2074.3 | 2037.9 | 1993.3 | 1945.8 | 1827.8 | 1778.9 | 1732.4 | 1610.6 | 1552.1 | 1463.9 |
| 20°   | 3053.9 | 2971.0 | 2877.5 | 2780.6 | 2687.6 | 2479.5 | 2358.6 | 2229.2 | 2062.8 | 1923.7 | 1818.3 |
| 21°   | 3501.8 | 3402.5 | 3289.8 | 3216.9 | 3041.9 | 2787.8 | 2624.8 | 2440.2 | 2226.3 | 2054.2 | 1921.3 |
| 22°   | 3971.2 | 3858.0 | 3764.1 | 3656.6 | 3414.0 | 3111.0 | 2906.2 | 2669.4 | 2392.7 | 2180.3 | 2012.5 |
| 23°   | 4427.2 | 4299.2 | 4186.5 | 4055.6 | 3775.1 | 3424.1 | 3181.0 | 2898.6 | 2565.3 | 2301.1 | 2093.5 |
| 24°   | 4862.6 | 4729.8 | 4600.3 | 4428.2 | 4106.9 | 3719.0 | 3433.2 | 3111.5 | 2729.8 | 2417.1 | 2169.7 |
| 25°   | 5331.5 | 5176.2 | 5008.8 | 4747.0 | 4420.5 | 3981.7 | 3652.8 | 3296.5 | 2876.0 | 2524.1 | 2234.0 |
| 26°   | 5798.6 | 5617.3 | 5366.5 | 5099.9 | 4709.6 | 4218.6 | 3843.7 | 3446.6 | 3000.7 | 2609.9 | 2281.4 |
| 27°   | 6236.8 | 6042.6 | 5748.2 | 5383.3 | 4969.0 | 4421.4 | 4000.9 | 3565.5 | 3087.5 | 2665.5 | 2303.5 |
| 28°   | 6611.8 | 6397.9 | 6070.0 | 5654.2 | 5162.3 | 4570.6 | 4105.0 | 3635.5 | 3129.2 | 2686.6 | 2306.4 |
| 29°   | 6858.7 | 6645.4 | 6292.0 | 5830.2 | 5271.6 | 4644.4 | 4146.2 | 3650.9 | 3126.8 | 2674.2 | 2286.7 |
| 30°   | 6959.4 | 6744.1 | 6383.1 | 5887.7 | 5292.2 | 4645.8 | 4129.4 | 3618.8 | 3085.1 | 2634.8 | 2247.9 |
| 31°   | 6900.4 | 6693.8 | 6327.4 | 5828.8 | 5219.3 | 4578.7 | 4058.9 | 3537.7 | 3002.1 | 2565.3 | 2189.9 |
| 32°   | 6682.8 | 6493.4 | 6141.4 | 5666.7 | 5069.2 | 4444.0 | 3937.6 | 3417.9 | 2885.1 | 2474.7 | 2117.5 |
| 33°   | 6350.9 | 6193.2 | 5833.6 | 5395.8 | 4868.8 | 4278.6 | 3789.9 | 3296.1 | 2744.2 | 2363.9 | 2040.3 |
| 34°   | 6033.0 | 5800.0 | 5481.1 | 5092.3 | 4611.8 | 4063.7 | 3606.8 | 3104.3 | 2594.6 | 2242.1 | 1952.0 |
| 35°   | 5579.9 | 5371.3 | 5076.9 | 4744.1 | 4312.6 | 3801.5 | 3344.5 | 2917.3 | 2427.2 | 2124.7 | 1859.5 |
| 36°   | 5101.9 | 4918.2 | 4704.3 | 4406.1 | 3993.3 | 3527.7 | 3109.5 | 2687.6 | 2255.1 | 1993.7 | 1761.7 |
| 37°   | 4517.8 | 4476.6 | 4277.6 | 4028.7 | 3660.0 | 3229.9 | 2836.7 | 2471.8 | 2094.0 | 1872.9 | 1654.3 |
| 38°   | 4173.1 | 4037.8 | 3855.6 | 3636.5 | 3275.0 | 2930.7 | 2573.5 | 2255.1 | 1947.7 | 1759.8 | 1532.0 |
| 39°   | 3734.3 | 3620.2 | 3452.4 | 3255.3 | 2944.1 | 2619.0 | 2328.4 | 2074.3 | 1826.9 | 1645.6 | 1400.1 |
| 40°   | 3312.4 | 3217.4 | 3063.5 | 2894.2 | 2611.8 | 2344.3 | 2117.0 | 1915.1 | 1707.0 | 1523.8 | 1269.7 |
| 42.5° | 2088.7 | 2041.7 | 1978.4 | 1955.4 | 1854.2 | 1784.7 | 1701.7 | 1585.2 | 1402.1 | 1195.9 | 1018.5 |
| 45°   | 1059.7 | 1029.5 | 1028.5 | 1075.5 | 1107.6 | 1111.0 | 1103.3 | 1073.6 | 954.7  | 895.7  | 737.9  |
| 47.5° | 178.4  | 169.7  | 175.0  | 206.7  | 251.3  | 305.4  | 365.9  | 440.2  | 519.8  | 503.0  | 387.4  |
| 50°   | 59.0   | 57.1   | 55.6   | 57.1   | 55.1   | 56.6   | 55.6   | 54.2   | 48.9   | 51.3   | 52.7   |
| 51°   | 36.4   | 38.8   | 37.4   | 38.4   | 37.9   | 39.3   | 39.3   | 38.8   | 35.5   | 33.1   | 30.2   |
| 52°   | 24.9   | 25.4   | 25.9   | 26.4   | 25.9   | 26.4   | 26.9   | 26.9   | 25.9   | 24.9   | 22.5   |
| 53°   | 17.7   | 17.7   | 18.2   | 18.2   | 18.2   | 18.7   | 18.7   | 18.7   | 18.2   | 18.2   | 17.7   |
| 54°   | 12.5   | 12.9   | 12.9   | 12.9   | 12.9   | 13.4   | 13.4   | 13.4   | 13.9   | 13.4   | 13.4   |
| 55°   | 9.1    | 9.1    | 9.1    | 9.1    | 9.1    | 9.1    | 9.6    | 9.6    | 10.1   | 10.1   | 9.6    |
| 57.5° | 3.8    | 3.8    | 3.4    | 3.8    | 3.8    | 3.8    | 3.8    | 4.3    | 4.3    | 4.8    | 4.8    |
| 60°   | 1.9    | 1.9    | 1.9    | 1.9    | 1.4    | 1.9    | 1.9    | 1.9    | 1.9    | 2.4    | 2.4    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 25° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 63°   | 1.0 | 1.0  | 1.0 | 1.0  | 1.0 | 1.0   | 0.5 | 1.0   | 1.0 | 1.0   | 1.0 |
| 64°   | 1.0 | 1.0  | 1.0 | 1.0  | 1.0 | 1.0   | 1.0 | 0.5   | 0.5 | 0.5   | 0.5 |
| 65°   | 1.0 | 1.0  | 1.0 | 1.0  | 1.0 | 1.0   | 1.0 | 0.5   | 0.5 | 0.5   | 0.5 |
| 66°   | 1.0 | 1.0  | 1.0 | 1.0  | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 | 0.5   | 0.5 |
| 67.5° | 1.0 | 1.0  | 1.0 | 1.0  | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 0.5 |
| 70°   | 1.0 | 1.0  | 1.0 | 1.0  | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 72.5° | 1.0 | 0.5  | 1.0 | 1.0  | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 75°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.5   | 0.5 | 0.5   | 0.5 |
| 77.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.5   | 0.5 | 0.5   | 0.5 |
| 80°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 |
| 82.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.5   | 0.5 | 0.5   | 0.5 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.5   | 0.5 | 0.5   | 0.5 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.5   | 0.5 | 0.5   | 0.5 |
| 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):**

|       | 27.5°  | 30°    | 32.5°  | 35°    | 37.5°  | 40°    | 42.5°  | 45°   | 47.5° | 50°   | 52.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0°    | 67.1   | 67.1   | 67.1   | 67.1   | 67.1   | 67.1   | 67.1   | 67.1  | 67.1  | 67.1  | 67.1  |
| 2.5°  | 76.7   | 77.7   | 76.2   | 77.2   | 75.3   | 75.3   | 73.8   | 74.3  | 73.8  | 72.9  | 72.9  |
| 5°    | 93.0   | 93.0   | 90.6   | 90.6   | 87.7   | 86.3   | 83.9   | 83.9  | 82.5  | 80.1  | 79.6  |
| 7.5°  | 127.5  | 122.8  | 117.5  | 115.6  | 109.8  | 106.0  | 101.7  | 99.7  | 95.4  | 91.6  | 88.7  |
| 10°   | 341.4  | 309.8  | 278.6  | 259.4  | 212.4  | 178.4  | 153.0  | 135.7 | 123.2 | 108.4 | 102.6 |
| 11°   | 481.4  | 441.1  | 400.4  | 360.6  | 314.6  | 268.0  | 238.8  | 192.8 | 163.5 | 130.4 | 114.6 |
| 12°   | 632.9  | 585.5  | 536.1  | 491.0  | 435.9  | 377.4  | 337.1  | 278.6 | 237.4 | 182.2 | 143.8 |
| 13°   | 788.3  | 734.6  | 675.6  | 628.6  | 566.3  | 499.2  | 435.9  | 381.7 | 330.4 | 258.4 | 202.3 |
| 14°   | 937.9  | 880.8  | 816.1  | 766.7  | 696.7  | 623.8  | 552.4  | 492.4 | 430.1 | 344.3 | 275.2 |
| 15°   | 1071.2 | 1030.4 | 948.4  | 899.5  | 824.3  | 746.6  | 667.0  | 602.7 | 528.9 | 433.5 | 353.9 |
| 17.5° | 1350.3 | 1275.0 | 1174.8 | 1126.3 | 1051.5 | 984.4  | 898.1  | 840.1 | 749.0 | 648.3 | 560.5 |
| 20°   | 1679.2 | 1568.4 | 1432.7 | 1330.6 | 1201.1 | 1083.2 | 974.3  | 928.8 | 872.2 | 803.6 | 721.6 |
| 21°   | 1769.3 | 1650.0 | 1501.8 | 1397.7 | 1264.9 | 1143.6 | 1015.6 | 943.2 | 881.3 | 821.9 | 753.3 |
| 22°   | 1835.0 | 1708.9 | 1553.1 | 1444.7 | 1308.1 | 1187.7 | 1056.8 | 970.0 | 887.5 | 820.4 | 758.6 |
| 23°   | 1890.7 | 1756.4 | 1594.3 | 1476.4 | 1333.5 | 1209.3 | 1077.9 | 991.6 | 900.5 | 817.1 | 749.9 |
| 24°   | 1941.0 | 1793.8 | 1623.6 | 1497.0 | 1346.4 | 1217.0 | 1080.8 | 995.4 | 906.7 | 819.0 | 738.4 |
| 25°   | 1978.9 | 1817.3 | 1640.4 | 1507.5 | 1349.3 | 1214.6 | 1074.1 | 988.2 | 899.5 | 812.7 | 725.5 |
| 26°   | 2004.8 | 1828.3 | 1645.2 | 1507.1 | 1343.6 | 1205.0 | 1060.2 | 973.4 | 882.3 | 790.2 | 704.4 |
| 27°   | 2012.9 | 1825.4 | 1638.4 | 1496.0 | 1329.2 | 1186.3 | 1036.7 | 945.1 | 855.4 | 763.4 | 676.1 |
| 28°   | 2004.8 | 1813.9 | 1623.1 | 1474.5 | 1305.2 | 1155.6 | 998.8  | 907.7 | 826.7 | 733.6 | 641.6 |
| 29°   | 1982.2 | 1793.3 | 1594.8 | 1442.3 | 1267.3 | 1105.7 | 950.4  | 871.7 | 793.6 | 688.6 | 583.5 |
| 30°   | 1947.2 | 1755.9 | 1554.1 | 1395.3 | 1211.2 | 1042.9 | 906.7  | 838.6 | 738.9 | 615.7 | 502.5 |
| 31°   | 1898.3 | 1707.5 | 1501.3 | 1333.0 | 1136.4 | 981.5  | 868.8  | 776.8 | 653.6 | 519.3 | 403.7 |
| 32°   | 1838.9 | 1650.0 | 1424.6 | 1250.0 | 1062.6 | 933.1  | 801.7  | 682.3 | 545.7 | 405.2 | 294.4 |
| 33°   | 1775.1 | 1576.1 | 1336.8 | 1162.8 | 999.3  | 868.4  | 704.9  | 565.8 | 424.8 | 284.8 | 185.6 |
| 34°   | 1701.3 | 1485.5 | 1238.5 | 1075.0 | 928.3  | 771.0  | 589.8  | 439.7 | 303.0 | 173.1 | 95.4  |
| 35°   | 1612.1 | 1373.8 | 1140.7 | 999.3  | 826.7  | 642.0  | 463.7  | 329.4 | 189.9 | 87.3  | 51.8  |
| 36°   | 1504.2 | 1258.7 | 1055.9 | 901.9  | 707.7  | 515.5  | 334.7  | 210.0 | 102.1 | 51.3  | 40.8  |
| 37°   | 1367.0 | 1164.2 | 966.7  | 785.9  | 579.2  | 387.0  | 215.8  | 114.1 | 58.5  | 41.7  | 34.5  |
| 38°   | 1248.6 | 1077.0 | 871.2  | 659.3  | 446.4  | 265.2  | 130.9  | 64.3  | 46.0  | 35.0  | 28.8  |
| 39°   | 1146.5 | 983.4  | 746.1  | 526.0  | 318.4  | 160.6  | 71.9   | 48.9  | 38.4  | 28.8  | 24.5  |
| 40°   | 1057.3 | 850.1  | 613.8  | 394.6  | 204.7  | 89.2   | 51.8   | 40.8  | 31.2  | 24.0  | 19.7  |
| 42.5° | 775.8  | 539.4  | 284.3  | 127.5  | 59.9   | 44.6   | 32.6   | 25.9  | 20.1  | 14.9  | 12.5  |
| 45°   | 460.8  | 242.6  | 85.8   | 52.3   | 37.9   | 28.3   | 20.6   | 16.3  | 12.5  | 9.1   | 7.7   |
| 47.5° | 168.3  | 61.4   | 42.2   | 31.6   | 24.0   | 17.7   | 12.9   | 10.1  | 7.7   | 5.3   | 4.3   |
| 50°   | 34.5   | 29.7   | 23.0   | 18.7   | 13.9   | 10.5   | 7.7    | 5.8   | 4.3   | 3.4   | 2.9   |
| 51°   | 26.4   | 23.0   | 18.7   | 14.9   | 11.0   | 8.6    | 6.2    | 4.8   | 3.8   | 2.9   | 2.4   |
| 52°   | 20.1   | 17.7   | 14.4   | 12.0   | 9.1    | 6.7    | 4.8    | 3.8   | 2.9   | 1.9   | 1.9   |
| 53°   | 15.8   | 13.9   | 11.0   | 9.1    | 7.2    | 5.3    | 3.8    | 2.9   | 2.4   | 1.9   | 1.9   |
| 54°   | 12.0   | 10.5   | 8.6    | 7.2    | 5.8    | 4.3    | 2.9    | 2.4   | 1.9   | 1.9   | 1.4   |
| 55°   | 8.6    | 8.2    | 6.7    | 5.3    | 4.3    | 3.4    | 2.4    | 1.9   | 1.9   | 1.4   | 1.4   |
| 57.5° | 4.3    | 3.8    | 3.4    | 2.9    | 2.4    | 1.9    | 1.4    | 1.4   | 1.4   | 1.4   | 1.0   |
| 60°   | 2.4    | 1.9    | 1.9    | 1.9    | 1.4    | 1.4    | 1.4    | 1.0   | 1.0   | 1.4   | 1.4   |





TEST NUMBER: P208825

CATALOG NUMBER: LDSQA6A15930D010TE LARL15SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° | 47.5° | 50° | 52.5° |
|-------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| 63°   | 1.0   | 1.0 | 1.0   | 1.0 | 1.4   | 1.0 | 1.0   | 1.0 | 1.4   | 1.4 | 1.4   |
| 64°   | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 1.4 | 1.4   | 1.4 | 1.4   |
| 65°   | 0.5   | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 1.4 | 1.4   | 1.4 | 1.4   |
| 66°   | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 1.4 | 1.4   | 1.4 | 1.4   |
| 67.5° | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 1.4 | 1.4   | 1.4 | 1.4   |
| 70°   | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 1.4 | 1.4   | 1.4 | 1.4   |
| 72.5° | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 1.4 | 1.4   | 1.4 | 1.4   |
| 75°   | 0.5   | 0.5 | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 1.4 | 1.4   | 1.4 | 1.4   |
| 77.5° | 0.5   | 0.5 | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 1.4 | 1.4   | 1.4 | 1.4   |
| 80°   | 0.5   | 0.5 | 0.5   | 1.0 | 1.0   | 1.0 | 1.0   | 1.4 | 1.4   | 1.4 | 1.4   |
| 82.5° | 0.5   | 0.5 | 0.5   | 1.0 | 1.0   | 1.0 | 1.0   | 1.4 | 1.4   | 1.4 | 1.4   |
| 85°   | 0.5   | 0.5 | 0.5   | 1.0 | 1.0   | 1.0 | 1.0   | 1.4 | 1.4   | 1.4 | 1.4   |
| 87.5° | 0.5   | 0.5 | 0.5   | 1.0 | 1.0   | 1.0 | 1.0   | 1.4 | 1.4   | 1.4 | 1.4   |
| 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: P208825

CATALOG NUMBER: LDSQA6A15930D010TE LARL15SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 55°   | 57.5° | 60°   | 62.5° | 65°   | 67.5° | 70°   | 72.5° | 75°  | 77.5° | 80°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|
| 0°    | 67.1  | 67.1  | 67.1  | 67.1  | 67.1  | 67.1  | 67.1  | 67.1  | 67.1 | 67.1  | 67.1 |
| 2.5°  | 71.4  | 72.4  | 71.4  | 70.5  | 70.0  | 70.0  | 69.5  | 68.1  | 68.6 | 68.1  | 68.1 |
| 5°    | 77.2  | 77.7  | 75.8  | 74.3  | 73.4  | 72.4  | 71.4  | 69.5  | 69.0 | 68.6  | 68.1 |
| 7.5°  | 84.9  | 84.4  | 80.6  | 78.2  | 75.8  | 73.8  | 71.9  | 69.5  | 68.6 | 67.1  | 66.2 |
| 10°   | 95.9  | 92.5  | 86.3  | 82.0  | 78.6  | 74.8  | 71.9  | 68.1  | 66.2 | 64.3  | 62.8 |
| 11°   | 100.7 | 95.9  | 89.7  | 83.9  | 79.6  | 75.3  | 71.9  | 67.1  | 64.7 | 62.8  | 60.9 |
| 12°   | 115.6 | 102.6 | 92.5  | 86.3  | 80.6  | 75.8  | 71.4  | 66.7  | 63.8 | 60.9  | 59.0 |
| 13°   | 149.6 | 119.4 | 98.8  | 87.7  | 82.0  | 76.2  | 71.0  | 65.7  | 62.3 | 59.0  | 57.1 |
| 14°   | 205.2 | 153.4 | 114.1 | 93.0  | 82.5  | 76.2  | 70.5  | 64.7  | 60.9 | 57.5  | 55.1 |
| 15°   | 271.9 | 206.2 | 145.3 | 106.0 | 84.4  | 75.8  | 69.5  | 63.3  | 59.0 | 55.1  | 52.7 |
| 17.5° | 457.9 | 372.1 | 279.1 | 198.5 | 122.8 | 83.0  | 65.7  | 58.5  | 53.2 | 48.9  | 46.0 |
| 20°   | 613.8 | 515.0 | 410.0 | 309.8 | 212.4 | 132.3 | 75.8  | 53.2  | 47.0 | 42.2  | 39.3 |
| 21°   | 647.8 | 555.3 | 444.0 | 339.0 | 238.3 | 153.4 | 85.8  | 53.2  | 44.6 | 39.8  | 36.9 |
| 22°   | 665.5 | 576.4 | 465.1 | 358.2 | 256.1 | 168.3 | 96.4  | 53.7  | 42.2 | 37.4  | 34.0 |
| 23°   | 662.7 | 581.2 | 473.3 | 363.9 | 264.2 | 175.5 | 100.7 | 54.2  | 39.8 | 35.0  | 31.6 |
| 24°   | 645.4 | 568.2 | 465.1 | 357.2 | 261.8 | 173.6 | 99.3  | 53.2  | 37.4 | 32.6  | 29.7 |
| 25°   | 623.8 | 542.8 | 443.1 | 339.0 | 246.5 | 161.6 | 92.1  | 49.9  | 35.5 | 30.7  | 27.8 |
| 26°   | 599.4 | 517.4 | 412.4 | 306.9 | 221.5 | 141.5 | 77.7  | 44.1  | 32.6 | 28.3  | 25.9 |
| 27°   | 570.1 | 484.3 | 374.5 | 272.8 | 187.0 | 114.1 | 62.3  | 37.4  | 30.2 | 25.9  | 24.0 |
| 28°   | 526.5 | 437.3 | 326.1 | 227.8 | 149.6 | 86.3  | 47.0  | 32.1  | 27.8 | 24.0  | 22.1 |
| 29°   | 461.3 | 371.1 | 265.6 | 177.9 | 109.8 | 59.5  | 36.0  | 28.8  | 24.9 | 21.6  | 20.1 |
| 30°   | 379.8 | 293.5 | 197.1 | 122.3 | 70.5  | 40.3  | 29.2  | 25.4  | 22.1 | 19.7  | 18.7 |
| 31°   | 287.7 | 208.6 | 127.5 | 70.5  | 42.2  | 29.7  | 25.9  | 22.1  | 19.7 | 17.7  | 17.3 |
| 32°   | 189.9 | 126.1 | 67.6  | 40.8  | 30.7  | 25.9  | 22.5  | 19.7  | 17.7 | 16.3  | 15.8 |
| 33°   | 101.7 | 58.0  | 38.8  | 30.7  | 25.9  | 22.5  | 19.7  | 17.3  | 15.8 | 14.9  | 14.4 |
| 34°   | 51.8  | 37.9  | 31.6  | 26.4  | 22.1  | 19.7  | 17.3  | 15.3  | 14.4 | 13.4  | 12.9 |
| 35°   | 38.4  | 32.6  | 27.3  | 22.5  | 19.2  | 17.3  | 15.3  | 13.9  | 12.9 | 12.0  | 12.0 |
| 36°   | 32.6  | 27.3  | 22.5  | 19.7  | 17.3  | 15.3  | 13.9  | 12.0  | 11.5 | 11.0  | 10.5 |
| 37°   | 27.3  | 23.5  | 19.7  | 16.8  | 14.9  | 13.4  | 12.0  | 11.0  | 10.1 | 9.6   | 9.6  |
| 38°   | 23.0  | 20.1  | 16.8  | 14.4  | 12.9  | 12.0  | 10.5  | 9.6   | 9.1  | 8.6   | 8.6  |
| 39°   | 19.2  | 16.8  | 14.4  | 12.5  | 11.0  | 10.1  | 9.1   | 8.6   | 8.2  | 7.7   | 7.7  |
| 40°   | 15.8  | 14.4  | 12.0  | 10.5  | 9.6   | 8.6   | 8.2   | 7.7   | 7.2  | 6.7   | 7.2  |
| 42.5° | 10.1  | 8.6   | 7.7   | 7.2   | 6.2   | 6.2   | 5.8   | 5.3   | 5.3  | 5.3   | 5.3  |
| 45°   | 5.8   | 5.3   | 4.8   | 4.8   | 4.3   | 4.3   | 4.3   | 3.8   | 4.3  | 4.3   | 4.3  |
| 47.5° | 3.4   | 3.4   | 2.9   | 2.9   | 2.9   | 2.9   | 2.9   | 2.9   | 2.9  | 3.4   | 3.4  |
| 50°   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9  | 2.4   | 2.4  |
| 51°   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9  | 1.9   | 2.4  |
| 52°   | 1.9   | 1.9   | 1.9   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.9  | 1.9   | 1.9  |
| 53°   | 1.4   | 1.9   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.9  | 1.9   | 1.9  |
| 54°   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4  | 1.9   | 1.9  |
| 55°   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4  | 1.9   | 1.9  |
| 57.5° | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4  | 1.4   | 1.9  |
| 60°   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4  | 1.4   | 1.9  |



TEST NUMBER: P208825

CATALOG NUMBER: LDSQA6A15930D010TE LARL15SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° | 77.5° | 80° |
|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| 63°   | 1.4 | 1.4   | 1.4 | 1.4   | 1.4 | 1.9   | 1.4 | 1.4   | 1.4 | 1.9   | 1.9 |
| 64°   | 1.4 | 1.4   | 1.4 | 1.4   | 1.4 | 1.9   | 1.4 | 1.4   | 1.4 | 1.4   | 1.9 |
| 65°   | 1.4 | 1.4   | 1.9 | 1.9   | 1.9 | 1.9   | 1.4 | 1.4   | 1.4 | 1.4   | 1.9 |
| 66°   | 1.4 | 1.4   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 | 1.4   | 1.4 | 1.9   | 1.9 |
| 67.5° | 1.4 | 1.9   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 | 1.4   | 1.9 | 1.9   | 1.9 |
| 70°   | 1.4 | 1.9   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 |
| 72.5° | 1.4 | 1.9   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 |
| 75°   | 1.4 | 1.9   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 |
| 77.5° | 1.4 | 1.9   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 |
| 80°   | 1.4 | 1.9   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 |
| 82.5° | 1.4 | 1.9   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 |
| 85°   | 1.4 | 1.9   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 |
| 87.5° | 1.4 | 1.9   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 |
| 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: P208825

CATALOG NUMBER: LDSQA6A15930D010TE LARL15SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 82.5° | 85°  | 87.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|-------|------|--------|------|--------|------|
| 0°    | 67.1  | 67.1 | 67.1  | 67.1 | 67.1   | 67.1 | 67.1   | 67.1 |
| 2.5°  | 66.7  | 66.2 | 65.7  | 65.7 | 61.9   | 59.9 | 57.5   | 57.5 |
| 5°    | 65.7  | 65.2 | 64.3  | 63.3 | 57.1   | 54.2 | 51.3   | 50.8 |
| 7.5°  | 63.8  | 62.3 | 60.9  | 59.9 | 52.3   | 48.9 | 46.0   | 45.6 |
| 10°   | 59.9  | 58.0 | 56.6  | 55.6 | 47.5   | 44.1 | 41.7   | 41.7 |
| 11°   | 58.0  | 56.1 | 54.7  | 53.2 | 45.1   | 42.2 | 40.3   | 40.3 |
| 12°   | 56.1  | 54.2 | 52.3  | 51.3 | 43.2   | 40.8 | 38.8   | 38.4 |
| 13°   | 54.2  | 51.8 | 50.3  | 48.9 | 41.2   | 38.8 | 37.4   | 37.4 |
| 14°   | 52.3  | 49.9 | 47.9  | 46.5 | 39.3   | 36.9 | 36.0   | 36.0 |
| 15°   | 49.4  | 47.0 | 45.6  | 44.1 | 36.9   | 35.5 | 34.5   | 35.0 |
| 17.5° | 42.7  | 40.8 | 39.3  | 37.9 | 32.1   | 31.6 | 31.6   | 32.1 |
| 20°   | 36.4  | 34.5 | 33.1  | 32.1 | 27.8   | 28.3 | 28.8   | 29.7 |
| 21°   | 34.0  | 32.1 | 30.7  | 29.7 | 26.4   | 26.9 | 27.8   | 28.8 |
| 22°   | 31.6  | 30.2 | 28.8  | 27.8 | 24.9   | 25.4 | 26.9   | 27.8 |
| 23°   | 29.2  | 27.8 | 26.9  | 25.9 | 23.5   | 24.5 | 25.9   | 26.9 |
| 24°   | 27.3  | 25.9 | 24.9  | 24.0 | 22.1   | 23.0 | 24.9   | 25.9 |
| 25°   | 25.4  | 24.0 | 23.0  | 22.5 | 20.6   | 22.1 | 24.0   | 24.9 |
| 26°   | 23.5  | 22.5 | 21.6  | 21.1 | 19.7   | 21.1 | 23.0   | 24.5 |
| 27°   | 21.6  | 20.6 | 20.1  | 19.7 | 18.2   | 20.1 | 22.1   | 23.5 |
| 28°   | 20.1  | 19.2 | 18.7  | 18.2 | 17.3   | 19.2 | 21.6   | 22.5 |
| 29°   | 18.7  | 17.7 | 17.3  | 16.8 | 16.3   | 18.2 | 20.6   | 22.1 |
| 30°   | 17.3  | 16.8 | 15.8  | 15.8 | 15.3   | 17.7 | 19.7   | 21.1 |
| 31°   | 15.8  | 15.3 | 14.9  | 14.4 | 14.4   | 16.8 | 19.2   | 20.6 |
| 32°   | 14.9  | 14.4 | 13.9  | 13.4 | 13.9   | 15.8 | 18.2   | 20.1 |
| 33°   | 13.4  | 12.9 | 12.9  | 12.5 | 12.9   | 15.3 | 17.7   | 19.7 |
| 34°   | 12.0  | 12.0 | 11.5  | 11.5 | 12.5   | 14.9 | 17.3   | 18.7 |
| 35°   | 11.0  | 10.5 | 10.5  | 10.5 | 12.0   | 13.9 | 16.8   | 18.2 |
| 36°   | 10.1  | 10.1 | 9.6   | 9.6  | 11.5   | 13.4 | 16.3   | 17.7 |
| 37°   | 9.1   | 9.1  | 9.1   | 8.6  | 10.5   | 12.9 | 15.3   | 17.3 |
| 38°   | 8.2   | 8.2  | 8.2   | 8.2  | 10.1   | 12.5 | 15.3   | 17.3 |
| 39°   | 7.2   | 7.2  | 7.7   | 7.7  | 9.6    | 12.0 | 14.4   | 16.8 |
| 40°   | 6.7   | 6.7  | 6.7   | 6.7  | 9.1    | 11.5 | 13.9   | 16.3 |
| 42.5° | 5.3   | 5.3  | 5.8   | 5.8  | 8.2    | 10.5 | 12.9   | 14.9 |
| 45°   | 4.3   | 4.3  | 4.8   | 4.8  | 7.2    | 9.6  | 11.5   | 13.9 |
| 47.5° | 3.4   | 3.4  | 3.8   | 3.8  | 6.2    | 8.6  | 10.5   | 12.5 |
| 50°   | 2.4   | 2.9  | 2.9   | 3.4  | 5.8    | 7.7  | 9.1    | 11.0 |
| 51°   | 2.4   | 2.4  | 2.9   | 2.9  | 5.3    | 7.2  | 8.6    | 10.5 |
| 52°   | 2.4   | 2.4  | 2.9   | 2.9  | 4.8    | 6.7  | 8.2    | 9.6  |
| 53°   | 1.9   | 2.4  | 2.4   | 2.9  | 4.8    | 6.7  | 7.7    | 9.1  |
| 54°   | 1.9   | 1.9  | 2.4   | 2.4  | 4.8    | 6.2  | 7.7    | 8.2  |
| 55°   | 1.9   | 1.9  | 2.4   | 2.4  | 4.3    | 6.2  | 7.2    | 7.7  |
| 57.5° | 1.9   | 1.9  | 1.9   | 1.9  | 3.8    | 5.3  | 6.2    | 6.2  |
| 60°   | 1.9   | 1.9  | 1.9   | 1.9  | 3.8    | 4.8  | 5.8    | 4.3  |



TEST NUMBER: P208825

CATALOG NUMBER: LDSQA6A15930D010TE LARL15SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 82.5° | 85° | 87.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|-------|-----|--------|------|--------|------|
| 63°   | 1.9   | 1.9 | 1.9   | 1.9 | 3.4    | 4.3  | 4.3    | 3.4  |
| 64°   | 1.9   | 1.9 | 1.9   | 1.9 | 3.4    | 4.3  | 4.3    | 3.4  |
| 65°   | 1.9   | 1.9 | 1.9   | 1.9 | 3.4    | 3.8  | 3.8    | 2.9  |
| 66°   | 1.9   | 1.9 | 1.9   | 1.9 | 3.4    | 3.8  | 3.8    | 2.9  |
| 67.5° | 1.9   | 1.9 | 1.9   | 1.9 | 2.9    | 3.4  | 3.4    | 2.9  |
| 70°   | 1.9   | 1.9 | 1.9   | 1.9 | 2.9    | 3.4  | 2.9    | 2.4  |
| 72.5° | 1.9   | 1.9 | 1.9   | 1.9 | 2.9    | 2.9  | 2.4    | 1.9  |
| 75°   | 1.9   | 1.9 | 1.9   | 1.9 | 2.4    | 2.4  | 1.9    | 1.9  |
| 77.5° | 1.9   | 1.9 | 1.9   | 1.9 | 2.4    | 2.4  | 1.9    | 1.4  |
| 80°   | 1.9   | 1.9 | 1.9   | 1.9 | 2.4    | 1.9  | 1.4    | 1.0  |
| 82.5° | 1.9   | 1.9 | 1.9   | 1.9 | 1.9    | 1.4  | 1.0    | 1.0  |
| 85°   | 1.9   | 1.9 | 1.9   | 1.9 | 1.9    | 1.4  | 1.0    | 0.5  |
| 87.5° | 1.9   | 1.9 | 1.9   | 1.9 | 1.9    | 1.4  | 0.5    | 0.5  |
| 90°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |



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









|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 61° | 1.9 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.9 | 1.9 |
| 62° | 1.4 | 1.4 | 1.4 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |





|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 61° | 1.9 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.0 | 1.0 | 1.4 | 1.4 |
| 62° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.0 | 1.0 | 1.0 | 1.4 | 1.4 |





|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 61° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.9 |
| 62° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |







|     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 61° | 1.9 | 1.9 | 1.9 | 1.9 | 3.4 | 4.8 | 5.3 | 3.8 |
| 62° | 1.9 | 1.9 | 1.9 | 1.9 | 3.4 | 4.3 | 4.8 | 3.4 |



(END OF REPORT)