

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: P208871

Luminaire Tested: **LDSQA6A30840D010TE LARL20NF 6LSQA1H 30°**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P208871  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29056)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDSQA6A30840D010TE LARL20NF 6LSQA1H 30°  
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,  
SELF-FLANGED, 20° NARROW FLOOD, 30° Tilt  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2842.0 lumens  
Efficiency: N/A  
Efficacy: 63.7 lumens/watt  
Spacing Criteria (0/90/45): 2.38 / 0.63 / 1.23  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

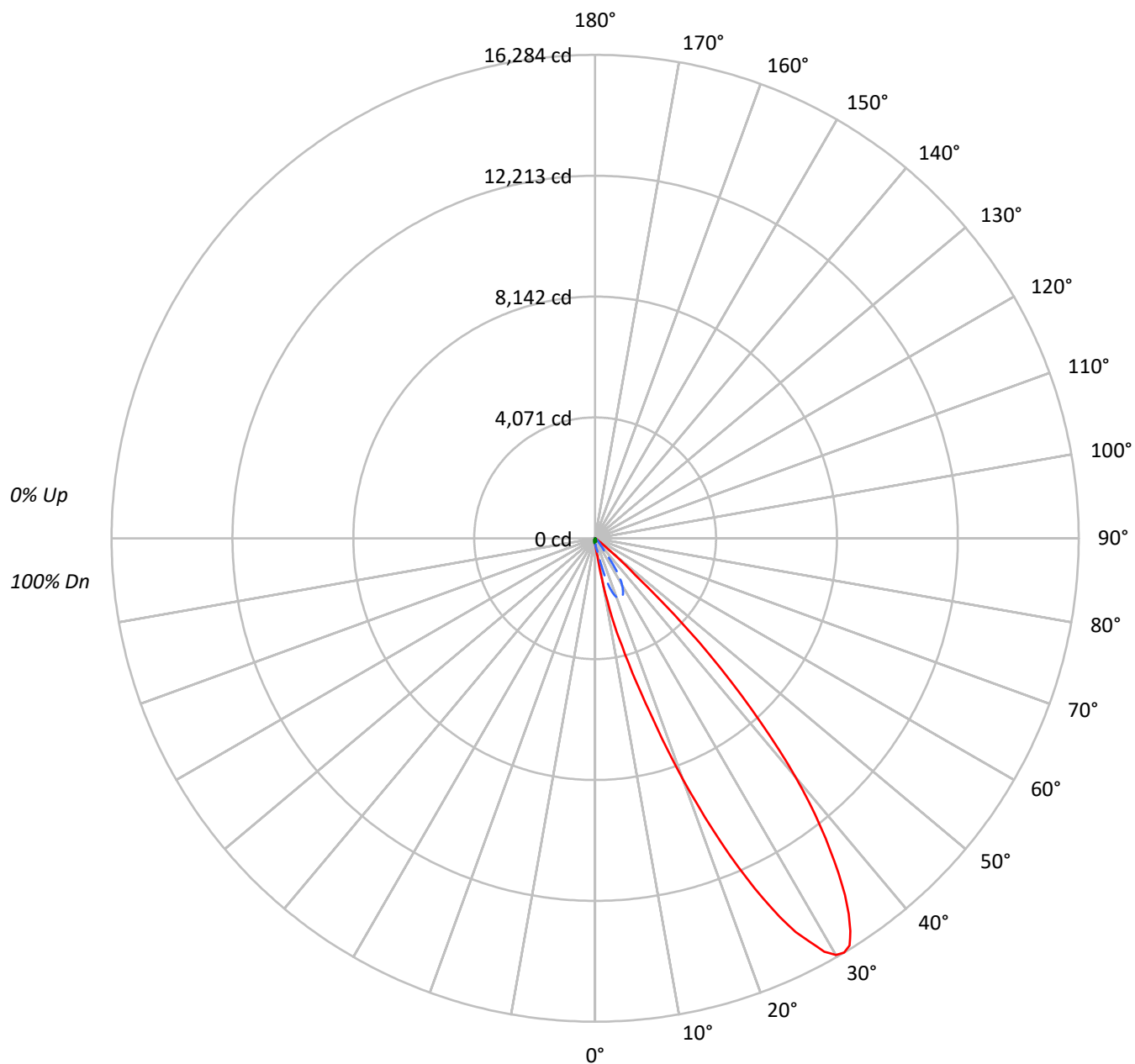
Input Watts (W): 44.62  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |     |     |     |    | 0  |
| 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   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 82  |    |    |
| 3   | 99  | 91  | 85  | 80  | 96  | 89  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 74  |    |    |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 69  | 75  | 71  | 68  | 66  |    |    |
| 5   | 86  | 76  | 69  | 63  | 84  | 75  | 68  | 63  | 73  | 67  | 62  | 71  | 66  | 62  | 69  | 65  | 61  | 60  |    |    |
| 6   | 80  | 69  | 62  | 57  | 78  | 68  | 61  | 56  | 67  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 55  | 53  |    |    |
| 7   | 75  | 63  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 50  | 60  | 54  | 50  | 59  | 54  | 50  | 48  |    |    |
| 8   | 70  | 58  | 51  | 46  | 68  | 57  | 50  | 46  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 43  |    |    |
| 9   | 65  | 53  | 46  | 41  | 64  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 41  | 50  | 44  | 41  | 39  |    |    |
| 10  | 61  | 49  | 42  | 37  | 60  | 48  | 42  | 37  | 48  | 41  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  |    |    |

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

|     | 0°     | 90°  | 180° |
|-----|--------|------|------|
| 0°  | 8249   | 8249 | 8249 |
| 5°  | 16471  | 8000 | 5411 |
| 10° | 74066  | 6995 | 4044 |
| 15° | 194175 | 5728 | 3249 |
| 20° | 395348 | 4339 | 2745 |
| 25° | 636152 | 3207 | 2328 |
| 30° | 805778 | 2272 | 2058 |
| 35° | 770795 | 1487 | 1829 |
| 40° | 591020 | 916  | 1714 |
| 45° | 300583 | 597  | 1589 |
| 50° | 46091  | 435  | 1387 |
| 55° | 6050   | 405  | 983  |
| 60° | 654    | 379  | 654  |
| 65° | 112    | 448  | 550  |
| 70° | 138    | 680  | 680  |
| 75° | 0      | 898  | 549  |
| 80° | 0      | 1091 | 545  |
| 85° | 0      | 2174 | 543  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 25.6   | 0.9       |
| 10°-20°   | 281.0  | 9.9       |
| 20°-30°   | 920.1  | 32.4      |
| 30°-40°   | 1120.0 | 39.4      |
| 40°-50°   | 455.0  | 16.0      |
| 50°-60°   | 27.0   | 1.0       |
| 60°-70°   | 5.3    | 0.2       |
| 70°-80°   | 4.6    | 0.2       |
| 80°-90°   | 3.3    | 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°    | 1226.7 | 43.2      |
| 0°-40°    | 2346.7 | 82.6      |
| 0°-60°    | 2828.7 | 99.5      |
| 0°-90°    | 2842.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2842.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 45°  | 90° | 135° | 180° | Flux |
|-----|-------|------|-----|------|------|------|
| 0°  | 192   | 192  | 192 | 192  | 192  |      |
| 5°  | 381   | 291  | 185 | 137  | 125  | 72   |
| 15° | 4356  | 1452 | 128 | 78   | 73   | 1417 |
| 25° | 13391 | 2161 | 68  | 46   | 49   | 6154 |
| 35° | 14665 | 863  | 28  | 27   | 35   | 8869 |
| 45° | 4936  | 98   | 10  | 17   | 26   | 3787 |
| 55° | 81    | 10   | 5   | 12   | 13   | 139  |
| 65° | 1     | 3    | 4   | 8    | 5    | 2    |
| 75° | 0     | 3    | 5   | 6    | 3    | 0    |
| 85° | 0     | 3    | 4   | 4    | 1    | 0    |
| 90° | 0     | 0    | 0   | 0    | 0    |      |



TEST NUMBER: P208871

CATALOG NUMBER: LDSQA6A30840D010TE LARL20NF 6LSQA1H 30°

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 2.5°    | 5°      | 7.5°    | 10°     | 12.5°   | 15°     | 17.5°   | 20°    | 22.5°  | 25°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0°    | 191.6   | 191.6   | 191.6   | 191.6   | 191.6   | 191.6   | 191.6   | 191.6   | 191.6  | 191.6  | 191.6  |
| 2.5°  | 270.0   | 258.0   | 263.5   | 262.4   | 258.0   | 259.1   | 261.3   | 257.0   | 259.1  | 252.6  | 253.7  |
| 5°    | 381.1   | 363.7   | 373.4   | 362.6   | 368.0   | 362.6   | 362.6   | 356.0   | 350.6  | 349.5  | 344.1  |
| 7.5°  | 665.2   | 622.8   | 635.8   | 589.0   | 596.6   | 581.4   | 567.3   | 552.0   | 525.9  | 512.8  | 484.5  |
| 10°   | 1694.1  | 1574.4  | 1602.7  | 1500.3  | 1498.2  | 1462.2  | 1395.8  | 1350.1  | 1253.2 | 1184.6 | 1086.6 |
| 11°   | 2142.7  | 2061.1  | 2086.1  | 1973.9  | 1968.5  | 1919.5  | 1841.1  | 1719.2  | 1664.7 | 1573.3 | 1451.3 |
| 12°   | 2728.5  | 2591.3  | 2606.5  | 2483.5  | 2471.5  | 2406.2  | 2318.0  | 2167.8  | 2102.4 | 1991.4 | 1847.7 |
| 13°   | 3260.9  | 3138.9  | 3140.0  | 3006.1  | 2992.0  | 2909.2  | 2812.3  | 2630.5  | 2557.5 | 2433.4 | 2260.3 |
| 14°   | 3749.7  | 3657.2  | 3638.7  | 3566.8  | 3490.6  | 3393.7  | 3291.4  | 3085.6  | 3005.0 | 2865.7 | 2667.5 |
| 15°   | 4356.2  | 4175.5  | 4139.5  | 4049.2  | 3956.6  | 3834.7  | 3709.5  | 3474.3  | 3385.0 | 3231.5 | 3034.4 |
| 17.5° | 6145.0  | 5921.8  | 5823.9  | 5639.9  | 5465.7  | 5231.6  | 4960.5  | 4543.5  | 4337.7 | 4062.2 | 3754.1 |
| 20°   | 8628.5  | 8276.9  | 8079.8  | 7784.7  | 7503.8  | 7120.6  | 6652.4  | 5995.9  | 5691.0 | 5157.5 | 4652.3 |
| 21°   | 9611.7  | 9309.0  | 9061.9  | 8729.8  | 8397.7  | 7943.7  | 7387.3  | 6692.7  | 6222.4 | 5598.5 | 5006.2 |
| 22°   | 10604.7 | 10317.2 | 10028.7 | 9664.0  | 9292.7  | 8762.5  | 8121.2  | 7315.5  | 6750.4 | 6022.0 | 5339.4 |
| 23°   | 11582.4 | 11290.6 | 11068.5 | 10568.7 | 10146.3 | 9548.6  | 8837.6  | 7916.5  | 7260.0 | 6424.9 | 5652.9 |
| 24°   | 12520.9 | 12201.9 | 11925.4 | 11421.3 | 10943.3 | 10278.0 | 9512.6  | 8500.1  | 7752.1 | 6809.2 | 5943.6 |
| 25°   | 13390.8 | 13039.2 | 12699.5 | 12181.2 | 11661.9 | 10935.7 | 10108.2 | 9028.1  | 8200.7 | 7157.6 | 6208.2 |
| 26°   | 14191.1 | 13710.9 | 13341.9 | 12862.8 | 12272.7 | 11510.5 | 10631.9 | 9484.3  | 8587.2 | 7448.3 | 6416.2 |
| 27°   | 14884.6 | 14399.1 | 13975.5 | 13462.7 | 12804.0 | 11983.1 | 11064.1 | 9812.0  | 8893.1 | 7666.1 | 6561.0 |
| 28°   | 15388.8 | 14978.3 | 14490.5 | 13938.5 | 13214.5 | 12308.6 | 11357.0 | 10073.3 | 9077.1 | 7779.3 | 6620.8 |
| 29°   | 15923.3 | 15456.3 | 14887.9 | 14260.8 | 13472.5 | 12513.3 | 11518.2 | 10209.4 | 9153.3 | 7805.4 | 6608.9 |
| 30°   | 16207.5 | 15777.4 | 15108.9 | 14425.2 | 13583.6 | 12578.6 | 11553.0 | 10230.1 | 9129.4 | 7742.3 | 6530.5 |
| 31°   | 16283.7 | 15882.0 | 15141.6 | 14428.5 | 13548.7 | 12514.4 | 11467.0 | 10123.4 | 8999.8 | 7595.3 | 6384.6 |
| 32°   | 16173.8 | 15772.0 | 15003.3 | 14289.1 | 13388.7 | 12334.7 | 11277.5 | 9932.9  | 8788.6 | 7375.4 | 6176.6 |
| 33°   | 15778.5 | 15453.0 | 14711.5 | 14024.5 | 13144.8 | 12068.0 | 10998.8 | 9622.6  | 8459.8 | 7090.1 | 5926.2 |
| 34°   | 15273.3 | 14969.6 | 14285.8 | 13581.4 | 12758.3 | 11702.2 | 10614.5 | 9247.0  | 8082.0 | 6739.5 | 5629.0 |
| 35°   | 14664.7 | 14365.3 | 13734.9 | 13034.8 | 12246.5 | 11215.5 | 10122.3 | 8775.5  | 7635.6 | 6343.2 | 5299.1 |
| 36°   | 13947.2 | 13635.8 | 13053.3 | 12387.0 | 11669.5 | 10627.5 | 9539.8  | 8233.3  | 7128.2 | 5912.1 | 4946.3 |
| 37°   | 13157.8 | 12844.3 | 12323.8 | 11706.5 | 10996.6 | 9965.6  | 8887.7  | 7635.6  | 6592.5 | 5464.6 | 4577.2 |
| 38°   | 12324.9 | 12033.1 | 11560.6 | 10944.4 | 10242.1 | 9229.5  | 8174.5  | 7089.0  | 6047.1 | 5011.6 | 4203.8 |
| 39°   | 11470.2 | 11163.2 | 10717.9 | 10112.5 | 9422.3  | 8422.8  | 7430.9  | 6460.8  | 5576.7 | 4566.3 | 3860.8 |
| 40°   | 10515.4 | 10225.8 | 9709.7  | 9235.0  | 8542.5  | 7590.9  | 6686.2  | 5767.2  | 5054.1 | 4138.4 | 3549.4 |
| 42.5° | 7778.2  | 7551.7  | 7276.3  | 6789.6  | 6277.9  | 5595.2  | 4962.6  | 4325.7  | 3807.4 | 3288.1 | 2855.9 |
| 45°   | 4936.5  | 4769.9  | 4628.4  | 4325.7  | 4118.8  | 3734.5  | 3407.9  | 3082.3  | 2837.3 | 2565.2 | 2085.0 |
| 47.5° | 1827.0  | 1748.6  | 1698.5  | 1565.7  | 1553.7  | 1430.7  | 1418.7  | 1575.5  | 1668.0 | 1570.0 | 1181.3 |
| 50°   | 688.1   | 668.5   | 656.5   | 615.2   | 586.8   | 530.2   | 487.8   | 456.2   | 392.0  | 347.3  | 311.4  |
| 51°   | 451.8   | 437.7   | 417.0   | 413.7   | 401.8   | 370.2   | 350.6   | 344.1   | 300.5  | 253.7  | 217.8  |
| 52°   | 287.4   | 278.7   | 265.7   | 266.7   | 260.2   | 240.6   | 234.1   | 243.9   | 221.0  | 194.9  | 168.8  |
| 53°   | 180.7   | 176.4   | 167.7   | 167.7   | 166.6   | 153.5   | 151.3   | 160.0   | 155.7  | 143.7  | 128.5  |
| 54°   | 117.6   | 116.5   | 108.9   | 110.0   | 110.0   | 102.3   | 101.3   | 104.5   | 103.4  | 99.1   | 91.5   |
| 55°   | 80.6    | 79.5    | 78.4    | 75.1    | 72.9    | 70.8    | 70.8    | 71.9    | 70.8   | 68.6   | 64.2   |
| 57.5° | 28.3    | 27.2    | 28.3    | 27.2    | 27.2    | 28.3    | 27.2    | 29.4    | 30.5   | 30.5   | 28.3   |
| 60°   | 7.6     | 7.6     | 7.6     | 7.6     | 7.6     | 7.6     | 7.6     | 9.8     | 10.9   | 10.9   | 10.9   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 25° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 63°   | 2.2 | 2.2  | 2.2 | 2.2  | 2.2 | 2.2   | 1.1 | 1.1   | 2.2 | 2.2   | 2.2 |
| 64°   | 1.1 | 1.1  | 1.1 | 1.1  | 1.1 | 1.1   | 1.1 | 1.1   | 1.1 | 1.1   | 2.2 |
| 65°   | 1.1 | 1.1  | 1.1 | 1.1  | 1.1 | 1.1   | 1.1 | 1.1   | 1.1 | 1.1   | 2.2 |
| 66°   | 1.1 | 1.1  | 1.1 | 1.1  | 1.1 | 1.1   | 1.1 | 1.1   | 1.1 | 1.1   | 1.1 |
| 67.5° | 1.1 | 1.1  | 1.1 | 1.1  | 1.1 | 1.1   | 1.1 | 1.1   | 1.1 | 1.1   | 1.1 |
| 70°   | 1.1 | 1.1  | 1.1 | 1.1  | 1.1 | 1.1   | 1.1 | 1.1   | 1.1 | 1.1   | 2.2 |
| 72.5° | 1.1 | 1.1  | 1.1 | 1.1  | 1.1 | 1.1   | 1.1 | 1.1   | 1.1 | 1.1   | 2.2 |
| 75°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 1.1 | 1.1   | 1.1 | 1.1   | 1.1 |
| 77.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 1.1   | 1.1 | 1.1   | 1.1 | 1.1   | 1.1 |
| 80°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 1.1 | 1.1   | 1.1 | 1.1   | 1.1 |
| 82.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 1.1 | 1.1   | 1.1 | 1.1   | 1.1 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 1.1 | 1.1   | 1.1 | 1.1   | 1.1 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 1.1 | 1.1   | 1.1 | 1.1   | 1.1 |
| 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°    | 191.6  | 191.6  | 191.6  | 191.6  | 191.6  | 191.6  | 191.6  | 191.6  | 191.6  | 191.6  | 191.6  |
| 2.5°  | 250.4  | 251.5  | 247.2  | 246.1  | 245.0  | 239.5  | 236.3  | 233.0  | 229.7  | 224.3  | 226.5  |
| 5°    | 335.3  | 335.3  | 325.5  | 319.0  | 315.7  | 303.8  | 298.3  | 290.7  | 282.0  | 275.5  | 272.2  |
| 7.5°  | 468.2  | 460.6  | 438.8  | 422.4  | 412.6  | 388.7  | 374.5  | 353.9  | 341.9  | 328.8  | 321.2  |
| 10°   | 993.0  | 941.8  | 835.1  | 758.9  | 687.0  | 599.9  | 520.4  | 458.4  | 418.1  | 388.7  | 370.2  |
| 11°   | 1338.1 | 1270.6 | 1134.5 | 1028.9 | 935.3  | 811.1  | 689.2  | 572.7  | 488.9  | 437.7  | 399.6  |
| 12°   | 1717.0 | 1629.9 | 1466.6 | 1335.9 | 1221.6 | 1065.9 | 910.2  | 756.7  | 635.8  | 540.0  | 461.6  |
| 13°   | 2111.1 | 1999.0 | 1809.5 | 1659.3 | 1527.6 | 1347.9 | 1162.8 | 978.8  | 831.8  | 701.2  | 582.5  |
| 14°   | 2502.0 | 2364.8 | 2156.9 | 1983.7 | 1835.7 | 1635.3 | 1425.2 | 1220.5 | 1048.5 | 884.1  | 739.3  |
| 15°   | 2856.9 | 2706.7 | 2523.8 | 2297.3 | 2137.3 | 1880.3 | 1682.2 | 1452.4 | 1256.4 | 1065.9 | 897.2  |
| 17.5° | 3493.9 | 3291.4 | 3075.8 | 2841.7 | 2689.3 | 2435.6 | 2184.1 | 1906.4 | 1669.1 | 1432.8 | 1206.4 |
| 20°   | 4194.0 | 3832.5 | 3477.5 | 3129.1 | 2908.1 | 2638.1 | 2392.0 | 2117.7 | 1867.2 | 1599.4 | 1353.3 |
| 21°   | 4469.4 | 4055.7 | 3623.4 | 3232.6 | 2982.2 | 2693.6 | 2438.9 | 2154.7 | 1891.2 | 1605.9 | 1346.8 |
| 22°   | 4730.7 | 4236.4 | 3750.8 | 3319.7 | 3046.4 | 2751.3 | 2477.0 | 2178.6 | 1897.7 | 1598.3 | 1327.2 |
| 23°   | 4969.2 | 4410.6 | 3868.4 | 3395.9 | 3093.2 | 2779.6 | 2496.6 | 2188.4 | 1894.5 | 1580.9 | 1297.8 |
| 24°   | 5185.8 | 4570.7 | 3968.6 | 3452.5 | 3121.5 | 2788.4 | 2494.4 | 2180.8 | 1878.1 | 1554.8 | 1257.5 |
| 25°   | 5373.1 | 4697.0 | 4041.5 | 3483.0 | 3129.1 | 2784.0 | 2483.5 | 2161.2 | 1845.5 | 1510.1 | 1210.7 |
| 26°   | 5514.6 | 4777.5 | 4076.4 | 3487.3 | 3118.3 | 2769.8 | 2458.5 | 2125.3 | 1794.3 | 1450.2 | 1147.6 |
| 27°   | 5596.3 | 4806.9 | 4076.4 | 3468.8 | 3096.5 | 2743.7 | 2418.2 | 2069.8 | 1727.9 | 1376.2 | 1069.2 |
| 28°   | 5610.5 | 4793.9 | 4047.0 | 3430.7 | 3055.1 | 2698.0 | 2359.4 | 1999.0 | 1649.5 | 1288.0 | 983.2  |
| 29°   | 5573.4 | 4741.6 | 3983.8 | 3365.4 | 2994.1 | 2639.2 | 2283.2 | 1909.7 | 1555.9 | 1191.1 | 893.9  |
| 30°   | 5482.0 | 4645.8 | 3890.2 | 3282.7 | 2921.2 | 2561.9 | 2187.3 | 1810.6 | 1450.2 | 1091.0 | 791.5  |
| 31°   | 5339.4 | 4507.5 | 3770.4 | 3182.5 | 2830.8 | 2469.3 | 2081.7 | 1696.3 | 1331.6 | 966.8  | 680.5  |
| 32°   | 5149.9 | 4313.7 | 3637.6 | 3068.2 | 2730.6 | 2363.7 | 1950.0 | 1550.4 | 1174.8 | 815.5  | 552.0  |
| 33°   | 4926.7 | 4124.3 | 3489.5 | 2945.1 | 2621.8 | 2218.9 | 1768.2 | 1332.7 | 983.2  | 646.7  | 418.1  |
| 34°   | 4671.9 | 3920.7 | 3330.6 | 2815.6 | 2479.1 | 2006.6 | 1541.7 | 1108.4 | 773.0  | 472.5  | 295.1  |
| 35°   | 4389.9 | 3704.0 | 3164.0 | 2663.1 | 2253.8 | 1747.5 | 1282.6 | 863.4  | 559.6  | 320.1  | 222.1  |
| 36°   | 4089.4 | 3461.2 | 2973.4 | 2445.4 | 1983.7 | 1456.8 | 1008.2 | 621.7  | 371.3  | 238.4  | 191.6  |
| 37°   | 3806.4 | 3250.0 | 2776.4 | 2172.1 | 1678.9 | 1153.0 | 736.0  | 414.8  | 271.1  | 208.0  | 169.8  |
| 38°   | 3539.6 | 3046.4 | 2519.4 | 1869.4 | 1365.3 | 864.5  | 484.5  | 305.9  | 235.2  | 182.9  | 150.3  |
| 39°   | 3290.3 | 2841.7 | 2218.9 | 1545.0 | 1051.8 | 609.7  | 351.7  | 262.4  | 204.7  | 162.2  | 132.8  |
| 40°   | 3049.7 | 2548.8 | 1891.2 | 1259.7 | 766.5  | 425.7  | 296.1  | 231.9  | 180.7  | 142.6  | 112.1  |
| 42.5° | 2287.5 | 1637.5 | 1047.4 | 573.8  | 360.4  | 277.6  | 211.2  | 163.3  | 119.8  | 88.2   | 67.5   |
| 45°   | 1436.1 | 832.9  | 449.7  | 322.3  | 251.5  | 188.4  | 137.2  | 98.0   | 71.9   | 53.3   | 42.5   |
| 47.5° | 653.3  | 358.2  | 278.7  | 215.6  | 162.2  | 112.1  | 80.6   | 58.8   | 43.6   | 33.8   | 25.0   |
| 50°   | 239.5  | 203.6  | 165.5  | 123.0  | 89.3   | 64.2   | 46.8   | 34.8   | 26.1   | 19.6   | 14.2   |
| 51°   | 187.3  | 163.3  | 131.7  | 92.5   | 70.8   | 52.3   | 38.1   | 28.3   | 20.7   | 15.2   | 10.9   |
| 52°   | 147.0  | 129.6  | 101.3  | 71.9   | 55.5   | 41.4   | 30.5   | 21.8   | 15.2   | 12.0   | 8.7    |
| 53°   | 113.2  | 99.1   | 76.2   | 55.5   | 43.6   | 32.7   | 24.0   | 17.4   | 12.0   | 8.7    | 6.5    |
| 54°   | 83.8   | 72.9   | 56.6   | 42.5   | 33.8   | 25.0   | 17.4   | 13.1   | 8.7    | 6.5    | 5.4    |
| 55°   | 59.9   | 53.3   | 42.5   | 33.8   | 26.1   | 19.6   | 13.1   | 9.8    | 6.5    | 4.4    | 4.4    |
| 57.5° | 25.0   | 24.0   | 19.6   | 16.3   | 13.1   | 9.8    | 6.5    | 4.4    | 4.4    | 3.3    | 4.4    |
| 60°   | 9.8    | 9.8    | 8.7    | 6.5    | 5.4    | 4.4    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    |



TEST NUMBER: P208871

CATALOG NUMBER: LDSQA6A30840D010TE LARL20NF 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° | 47.5° | 50° | 52.5° |
|-------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| 63°   | 2.2   | 3.3 | 3.3   | 3.3 | 3.3   | 3.3 | 3.3   | 3.3 | 3.3   | 3.3 | 4.4   |
| 64°   | 2.2   | 2.2 | 2.2   | 2.2 | 3.3   | 3.3 | 3.3   | 3.3 | 3.3   | 3.3 | 4.4   |
| 65°   | 2.2   | 2.2 | 2.2   | 2.2 | 2.2   | 3.3 | 3.3   | 3.3 | 3.3   | 3.3 | 4.4   |
| 66°   | 2.2   | 2.2 | 2.2   | 2.2 | 2.2   | 3.3 | 3.3   | 3.3 | 3.3   | 3.3 | 4.4   |
| 67.5° | 2.2   | 2.2 | 2.2   | 2.2 | 2.2   | 3.3 | 3.3   | 3.3 | 3.3   | 4.4 | 4.4   |
| 70°   | 2.2   | 2.2 | 2.2   | 2.2 | 2.2   | 3.3 | 3.3   | 3.3 | 3.3   | 4.4 | 4.4   |
| 72.5° | 2.2   | 2.2 | 2.2   | 2.2 | 2.2   | 3.3 | 3.3   | 3.3 | 4.4   | 4.4 | 4.4   |
| 75°   | 1.1   | 2.2 | 2.2   | 2.2 | 2.2   | 3.3 | 3.3   | 3.3 | 4.4   | 4.4 | 4.4   |
| 77.5° | 1.1   | 2.2 | 2.2   | 2.2 | 3.3   | 3.3 | 3.3   | 3.3 | 4.4   | 4.4 | 4.4   |
| 80°   | 1.1   | 2.2 | 2.2   | 2.2 | 2.2   | 3.3 | 3.3   | 3.3 | 4.4   | 4.4 | 4.4   |
| 82.5° | 1.1   | 2.2 | 2.2   | 2.2 | 2.2   | 3.3 | 3.3   | 3.3 | 4.4   | 4.4 | 4.4   |
| 85°   | 1.1   | 2.2 | 2.2   | 2.2 | 2.2   | 3.3 | 3.3   | 3.3 | 4.4   | 4.4 | 4.4   |
| 87.5° | 1.1   | 2.2 | 2.2   | 2.2 | 2.2   | 3.3 | 3.3   | 3.3 | 4.4   | 4.4 | 4.4   |
| 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: P208871

CATALOG NUMBER: LDSQA6A30840D010TE LARL20NF 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 57.5° | 60°   | 62.5° | 65°   | 67.5° | 70°   | 72.5° | 75°   | 77.5° | 80°   |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 191.6  | 191.6 | 191.6 | 191.6 | 191.6 | 191.6 | 191.6 | 191.6 | 191.6 | 191.6 | 191.6 |
| 2.5°  | 223.2  | 223.2 | 215.6 | 213.4 | 212.3 | 210.1 | 204.7 | 204.7 | 201.4 | 197.1 | 194.9 |
| 5°    | 264.6  | 262.4 | 250.4 | 243.9 | 238.4 | 231.9 | 221.0 | 216.7 | 210.1 | 203.6 | 198.2 |
| 7.5°  | 304.9  | 297.2 | 278.7 | 268.9 | 261.3 | 250.4 | 236.3 | 226.5 | 215.6 | 204.7 | 197.1 |
| 10°   | 345.1  | 329.9 | 303.8 | 287.4 | 273.3 | 258.0 | 240.6 | 229.7 | 215.6 | 201.4 | 190.5 |
| 11°   | 361.5  | 341.9 | 312.5 | 291.8 | 275.5 | 258.0 | 240.6 | 226.5 | 213.4 | 199.2 | 187.3 |
| 12°   | 393.0  | 356.0 | 321.2 | 298.3 | 277.6 | 258.0 | 238.4 | 223.2 | 209.0 | 194.9 | 182.9 |
| 13°   | 457.3  | 388.7 | 331.0 | 303.8 | 280.9 | 258.0 | 236.3 | 219.9 | 204.7 | 190.5 | 177.5 |
| 14°   | 573.8  | 456.2 | 357.1 | 309.2 | 282.0 | 258.0 | 234.1 | 214.5 | 199.2 | 184.0 | 172.0 |
| 15°   | 705.5  | 559.6 | 410.5 | 328.8 | 283.1 | 255.9 | 229.7 | 209.0 | 192.7 | 177.5 | 165.5 |
| 17.5° | 978.8  | 782.8 | 581.4 | 426.8 | 310.3 | 249.3 | 213.4 | 192.7 | 174.2 | 159.0 | 144.8 |
| 20°   | 1089.9 | 862.3 | 635.8 | 457.3 | 321.2 | 238.4 | 194.9 | 173.1 | 153.5 | 138.3 | 126.3 |
| 21°   | 1075.7 | 847.1 | 619.5 | 436.6 | 300.5 | 223.2 | 185.1 | 164.4 | 145.9 | 129.6 | 118.7 |
| 22°   | 1046.3 | 811.1 | 581.4 | 398.5 | 275.5 | 208.0 | 176.4 | 154.6 | 137.2 | 121.9 | 111.1 |
| 23°   | 1007.1 | 760.0 | 537.9 | 358.2 | 249.3 | 193.8 | 167.7 | 145.9 | 129.6 | 114.3 | 104.5 |
| 24°   | 958.1  | 708.8 | 487.8 | 317.9 | 224.3 | 182.9 | 157.9 | 137.2 | 120.9 | 107.8 | 98.0  |
| 25°   | 903.7  | 655.4 | 434.4 | 284.2 | 209.0 | 172.0 | 147.0 | 127.4 | 113.2 | 101.3 | 91.5  |
| 26°   | 837.3  | 592.3 | 384.3 | 252.6 | 190.5 | 160.0 | 136.1 | 118.7 | 105.6 | 94.7  | 84.9  |
| 27°   | 761.1  | 527.0 | 328.8 | 219.9 | 175.3 | 148.1 | 126.3 | 111.1 | 99.1  | 88.2  | 78.4  |
| 28°   | 692.5  | 454.0 | 282.0 | 196.0 | 163.3 | 136.1 | 117.6 | 103.4 | 92.5  | 81.7  | 72.9  |
| 29°   | 606.4  | 384.3 | 240.6 | 177.5 | 150.3 | 127.4 | 108.9 | 95.8  | 84.9  | 74.0  | 66.4  |
| 30°   | 520.4  | 317.9 | 205.8 | 162.2 | 137.2 | 116.5 | 100.2 | 88.2  | 77.3  | 68.6  | 62.1  |
| 31°   | 431.2  | 263.5 | 180.7 | 149.2 | 125.2 | 107.8 | 92.5  | 81.7  | 70.8  | 63.1  | 56.6  |
| 32°   | 329.9  | 215.6 | 161.1 | 135.0 | 114.3 | 96.9  | 84.9  | 74.0  | 64.2  | 57.7  | 51.2  |
| 33°   | 248.2  | 181.8 | 145.9 | 121.9 | 103.4 | 89.3  | 77.3  | 66.4  | 58.8  | 52.3  | 46.8  |
| 34°   | 198.2  | 162.2 | 131.7 | 110.0 | 93.6  | 80.6  | 68.6  | 59.9  | 52.3  | 46.8  | 41.4  |
| 35°   | 174.2  | 145.9 | 117.6 | 99.1  | 83.8  | 70.8  | 61.0  | 53.3  | 46.8  | 41.4  | 37.0  |
| 36°   | 154.6  | 130.7 | 104.5 | 88.2  | 72.9  | 62.1  | 53.3  | 46.8  | 40.3  | 35.9  | 32.7  |
| 37°   | 138.3  | 115.4 | 92.5  | 76.2  | 63.1  | 54.4  | 46.8  | 40.3  | 34.8  | 31.6  | 29.4  |
| 38°   | 124.1  | 99.1  | 78.4  | 65.3  | 54.4  | 46.8  | 40.3  | 34.8  | 30.5  | 27.2  | 25.0  |
| 39°   | 105.6  | 83.8  | 65.3  | 55.5  | 45.7  | 39.2  | 33.8  | 30.5  | 26.1  | 24.0  | 21.8  |
| 40°   | 88.2   | 69.7  | 54.4  | 45.7  | 39.2  | 32.7  | 29.4  | 25.0  | 22.9  | 20.7  | 18.5  |
| 42.5° | 54.4   | 43.6  | 34.8  | 29.4  | 25.0  | 21.8  | 19.6  | 17.4  | 15.2  | 14.2  | 13.1  |
| 45°   | 33.8   | 27.2  | 21.8  | 18.5  | 15.2  | 14.2  | 13.1  | 10.9  | 10.9  | 9.8   | 9.8   |
| 47.5° | 19.6   | 16.3  | 12.0  | 10.9  | 8.7   | 8.7   | 7.6   | 7.6   | 6.5   | 7.6   | 6.5   |
| 50°   | 10.9   | 7.6   | 6.5   | 5.4   | 5.4   | 5.4   | 5.4   | 5.4   | 5.4   | 5.4   | 5.4   |
| 51°   | 8.7    | 6.5   | 5.4   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   | 5.4   | 5.4   |
| 52°   | 6.5    | 5.4   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   |
| 53°   | 5.4    | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   |
| 54°   | 4.4    | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   |
| 55°   | 4.4    | 4.4   | 4.4   | 4.4   | 4.4   | 3.3   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   |
| 57.5° | 4.4    | 4.4   | 3.3   | 3.3   | 4.4   | 3.3   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   |
| 60°   | 4.4    | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   |



TEST NUMBER: P208871

CATALOG NUMBER: LDSQA6A30840D010TE LARL20NF 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° | 77.5° | 80° |
|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| 63°   | 4.4 | 4.4   | 4.4 | 4.4   | 4.4 | 4.4   | 4.4 | 4.4   | 4.4 | 4.4   | 4.4 |
| 64°   | 4.4 | 4.4   | 4.4 | 4.4   | 4.4 | 4.4   | 4.4 | 4.4   | 4.4 | 4.4   | 4.4 |
| 65°   | 4.4 | 4.4   | 4.4 | 4.4   | 4.4 | 4.4   | 4.4 | 4.4   | 4.4 | 4.4   | 4.4 |
| 66°   | 4.4 | 4.4   | 4.4 | 4.4   | 4.4 | 4.4   | 4.4 | 4.4   | 4.4 | 4.4   | 4.4 |
| 67.5° | 4.4 | 4.4   | 4.4 | 4.4   | 4.4 | 4.4   | 4.4 | 4.4   | 4.4 | 4.4   | 4.4 |
| 70°   | 4.4 | 4.4   | 4.4 | 5.4   | 5.4 | 5.4   | 5.4 | 4.4   | 4.4 | 4.4   | 4.4 |
| 72.5° | 4.4 | 5.4   | 5.4 | 5.4   | 5.4 | 5.4   | 5.4 | 5.4   | 5.4 | 5.4   | 4.4 |
| 75°   | 4.4 | 5.4   | 5.4 | 5.4   | 5.4 | 5.4   | 5.4 | 5.4   | 5.4 | 5.4   | 5.4 |
| 77.5° | 4.4 | 5.4   | 5.4 | 5.4   | 5.4 | 5.4   | 5.4 | 5.4   | 5.4 | 5.4   | 5.4 |
| 80°   | 4.4 | 5.4   | 5.4 | 5.4   | 5.4 | 5.4   | 5.4 | 5.4   | 5.4 | 5.4   | 5.4 |
| 82.5° | 4.4 | 5.4   | 5.4 | 5.4   | 5.4 | 5.4   | 5.4 | 5.4   | 5.4 | 5.4   | 5.4 |
| 85°   | 4.4 | 5.4   | 5.4 | 5.4   | 5.4 | 5.4   | 5.4 | 5.4   | 5.4 | 5.4   | 5.4 |
| 87.5° | 4.4 | 5.4   | 5.4 | 5.4   | 5.4 | 5.4   | 5.4 | 5.4   | 5.4 | 5.4   | 5.4 |
| 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: P208871

CATALOG NUMBER: LDSQA6A30840D010TE LARL20NF 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 82.5° | 85°   | 87.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0°    | 191.6 | 191.6 | 191.6 | 191.6 | 191.6  | 191.6 | 191.6  | 191.6 |
| 2.5°  | 193.8 | 193.8 | 192.7 | 190.5 | 174.2  | 160.0 | 151.3  | 150.3 |
| 5°    | 194.9 | 192.7 | 188.4 | 185.1 | 155.7  | 137.2 | 126.3  | 125.2 |
| 7.5°  | 190.5 | 186.2 | 180.7 | 174.2 | 138.3  | 118.7 | 108.9  | 106.7 |
| 10°   | 182.9 | 175.3 | 168.8 | 160.0 | 121.9  | 103.4 | 94.7   | 92.5  |
| 11°   | 177.5 | 169.8 | 163.3 | 154.6 | 115.4  | 98.0  | 89.3   | 88.2  |
| 12°   | 173.1 | 164.4 | 155.7 | 148.1 | 108.9  | 92.5  | 84.9   | 83.8  |
| 13°   | 166.6 | 157.9 | 150.3 | 141.5 | 103.4  | 88.2  | 80.6   | 79.5  |
| 14°   | 161.1 | 151.3 | 143.7 | 136.1 | 98.0   | 82.7  | 77.3   | 76.2  |
| 15°   | 154.6 | 144.8 | 136.1 | 128.5 | 92.5   | 78.4  | 74.0   | 72.9  |
| 17.5° | 137.2 | 126.3 | 118.7 | 111.1 | 79.5   | 68.6  | 65.3   | 66.4  |
| 20°   | 116.5 | 107.8 | 101.3 | 94.7  | 67.5   | 59.9  | 58.8   | 59.9  |
| 21°   | 108.9 | 101.3 | 95.8  | 89.3  | 63.1   | 56.6  | 56.6   | 57.7  |
| 22°   | 102.3 | 94.7  | 89.3  | 82.7  | 59.9   | 53.3  | 53.3   | 55.5  |
| 23°   | 95.8  | 88.2  | 82.7  | 77.3  | 55.5   | 51.2  | 51.2   | 53.3  |
| 24°   | 89.3  | 82.7  | 77.3  | 71.9  | 52.3   | 47.9  | 49.0   | 51.2  |
| 25°   | 82.7  | 77.3  | 71.9  | 67.5  | 49.0   | 45.7  | 46.8   | 49.0  |
| 26°   | 78.4  | 71.9  | 67.5  | 62.1  | 45.7   | 43.6  | 44.6   | 47.9  |
| 27°   | 71.9  | 66.4  | 62.1  | 57.7  | 43.6   | 41.4  | 43.6   | 45.7  |
| 28°   | 67.5  | 62.1  | 57.7  | 53.3  | 40.3   | 39.2  | 41.4   | 44.6  |
| 29°   | 62.1  | 57.7  | 53.3  | 50.1  | 38.1   | 37.0  | 40.3   | 42.5  |
| 30°   | 56.6  | 52.3  | 49.0  | 45.7  | 35.9   | 34.8  | 38.1   | 41.4  |
| 31°   | 52.3  | 49.0  | 45.7  | 42.5  | 33.8   | 33.8  | 37.0   | 40.3  |
| 32°   | 47.9  | 44.6  | 41.4  | 38.1  | 31.6   | 31.6  | 35.9   | 38.1  |
| 33°   | 43.6  | 40.3  | 37.0  | 34.8  | 29.4   | 30.5  | 33.8   | 37.0  |
| 34°   | 38.1  | 35.9  | 33.8  | 31.6  | 27.2   | 28.3  | 32.7   | 35.9  |
| 35°   | 34.8  | 32.7  | 30.5  | 28.3  | 26.1   | 27.2  | 31.6   | 34.8  |
| 36°   | 30.5  | 29.4  | 27.2  | 26.1  | 24.0   | 26.1  | 30.5   | 33.8  |
| 37°   | 27.2  | 26.1  | 24.0  | 22.9  | 22.9   | 25.0  | 29.4   | 32.7  |
| 38°   | 24.0  | 22.9  | 21.8  | 20.7  | 21.8   | 24.0  | 28.3   | 31.6  |
| 39°   | 20.7  | 19.6  | 19.6  | 18.5  | 20.7   | 22.9  | 27.2   | 30.5  |
| 40°   | 18.5  | 17.4  | 17.4  | 16.3  | 19.6   | 21.8  | 26.1   | 30.5  |
| 42.5° | 13.1  | 13.1  | 13.1  | 13.1  | 16.3   | 19.6  | 24.0   | 28.3  |
| 45°   | 9.8   | 9.8   | 9.8   | 9.8   | 14.2   | 17.4  | 20.7   | 26.1  |
| 47.5° | 7.6   | 7.6   | 7.6   | 7.6   | 13.1   | 16.3  | 19.6   | 22.9  |
| 50°   | 5.4   | 5.4   | 6.5   | 6.5   | 12.0   | 14.2  | 17.4   | 20.7  |
| 51°   | 5.4   | 5.4   | 5.4   | 6.5   | 10.9   | 14.2  | 16.3   | 19.6  |
| 52°   | 5.4   | 5.4   | 5.4   | 5.4   | 10.9   | 13.1  | 15.2   | 17.4  |
| 53°   | 4.4   | 5.4   | 5.4   | 5.4   | 9.8    | 13.1  | 14.2   | 16.3  |
| 54°   | 4.4   | 4.4   | 4.4   | 5.4   | 9.8    | 12.0  | 13.1   | 15.2  |
| 55°   | 4.4   | 4.4   | 4.4   | 5.4   | 8.7    | 12.0  | 13.1   | 13.1  |
| 57.5° | 4.4   | 4.4   | 4.4   | 4.4   | 8.7    | 10.9  | 12.0   | 10.9  |
| 60°   | 4.4   | 4.4   | 4.4   | 4.4   | 7.6    | 9.8   | 10.9   | 7.6   |



TEST NUMBER: P208871

CATALOG NUMBER: LDSQA6A30840D010TE LARL20NF 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 82.5° | 85° | 87.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|-------|-----|--------|------|--------|------|
| 63°   | 4.4   | 4.4 | 4.4   | 4.4 | 7.6    | 8.7  | 8.7    | 6.5  |
| 64°   | 4.4   | 4.4 | 4.4   | 4.4 | 7.6    | 8.7  | 8.7    | 6.5  |
| 65°   | 4.4   | 4.4 | 4.4   | 4.4 | 7.6    | 7.6  | 7.6    | 5.4  |
| 66°   | 4.4   | 4.4 | 4.4   | 4.4 | 7.6    | 7.6  | 7.6    | 5.4  |
| 67.5° | 4.4   | 4.4 | 4.4   | 4.4 | 7.6    | 7.6  | 6.5    | 5.4  |
| 70°   | 4.4   | 4.4 | 4.4   | 5.4 | 6.5    | 6.5  | 6.5    | 5.4  |
| 72.5° | 4.4   | 4.4 | 4.4   | 5.4 | 6.5    | 6.5  | 5.4    | 4.4  |
| 75°   | 5.4   | 5.4 | 5.4   | 5.4 | 6.5    | 6.5  | 5.4    | 3.3  |
| 77.5° | 5.4   | 5.4 | 5.4   | 5.4 | 6.5    | 5.4  | 4.4    | 3.3  |
| 80°   | 5.4   | 5.4 | 4.4   | 4.4 | 5.4    | 5.4  | 3.3    | 2.2  |
| 82.5° | 5.4   | 5.4 | 4.4   | 4.4 | 5.4    | 4.4  | 3.3    | 2.2  |
| 85°   | 5.4   | 5.4 | 4.4   | 4.4 | 5.4    | 4.4  | 2.2    | 1.1  |
| 87.5° | 5.4   | 4.4 | 4.4   | 4.4 | 5.4    | 4.4  | 1.1    | 1.1  |
| 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° | 3.3 | 3.3 | 3.3 | 3.3 | 4.4 | 3.3 | 4.4 | 5.4 | 6.5 | 6.5 | 6.5 |
| 62° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.3 | 3.3 | 3.3 | 4.4 |





|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 61° | 6.5 | 6.5 | 5.4 | 5.4 | 4.4 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| 62° | 4.4 | 4.4 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 4.4 |





|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 61° | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| 62° | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |





|     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 61° | 4.4 | 4.4 | 4.4 | 4.4 | 7.6 | 9.8 | 9.8 | 7.6 |
| 62° | 4.4 | 4.4 | 4.4 | 4.4 | 7.6 | 8.7 | 9.8 | 6.5 |



(END OF REPORT)