

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: P175584

Luminaire Tested: **LDA6A15830D010TE LAR35FL 6LAL1 30° Tilt**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P175584  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26297)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA6A15830D010TE LAR35FL 6LAL1 30° Tilt  
Description: PORTFOLIO 6" Lensed Adjustable, Self-flange Trim Ring, 35° Flood Optic, at 30° tilt  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1220.5 lumens  
Efficiency: N/A  
Efficacy: 54.8 lumens/watt  
Spacing Criteria (0/90/45): 2.79 / 0.61 / 1.41  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

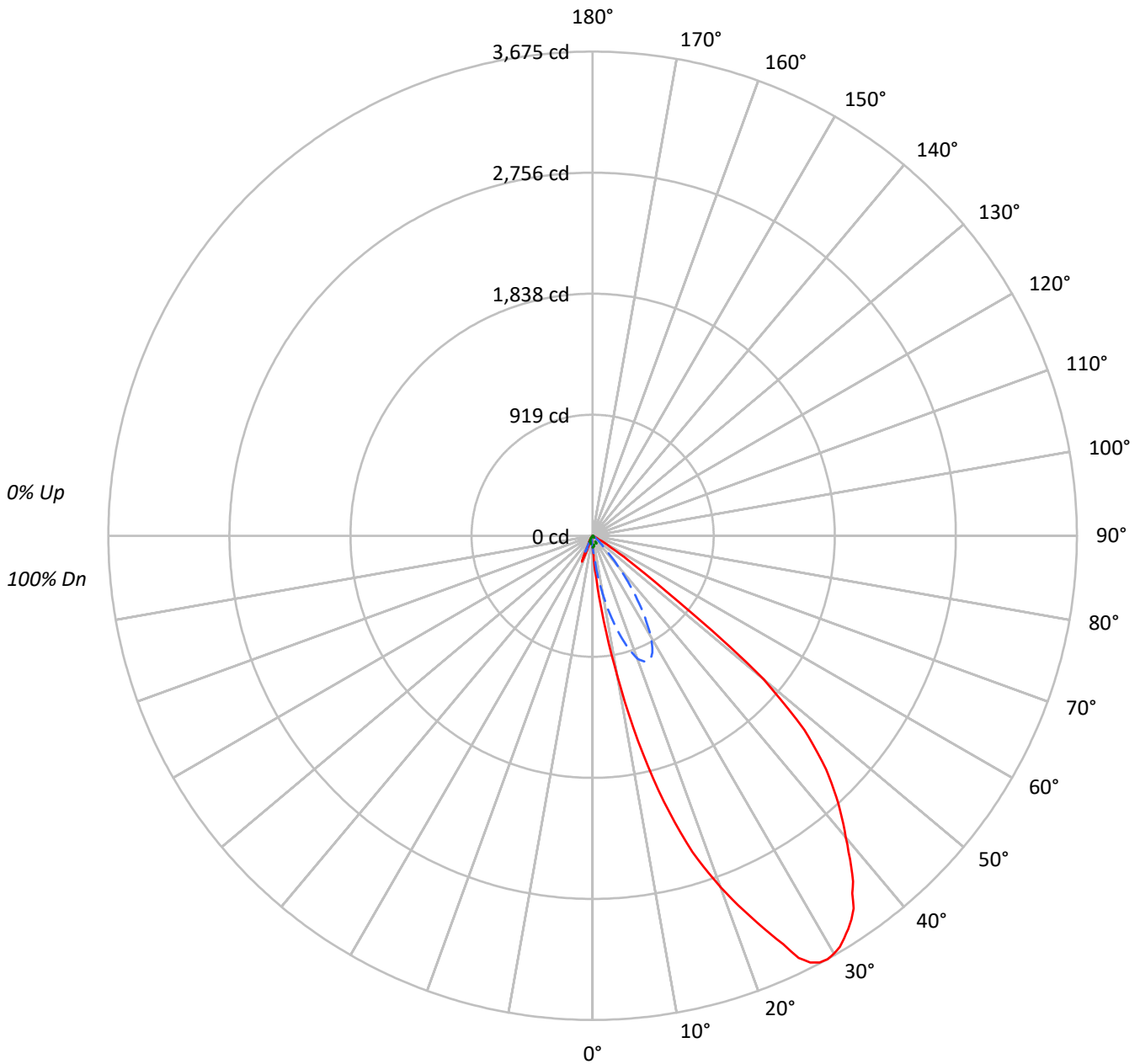
Input Watts (W): 22.27  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 50  |     |     |     |     |     |     |     |     | 30 |    |   |  |  |  |  |  |  | 10 |  |  |  |  |  |  |  |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 | 0 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 101 | 103 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 93  | 91  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 105 | 99  | 94  | 90  | 103 | 97  | 93  | 89  | 94  | 90  | 87  | 91  | 88  | 85  | 88  | 85  | 83  | 81  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 86  | 81  | 77  | 83  | 79  | 75  | 81  | 77  | 74  | 72  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 91  | 82  | 75  | 69  | 89  | 80  | 74  | 69  | 78  | 72  | 68  | 76  | 71  | 67  | 74  | 70  | 66  | 65  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 85  | 74  | 67  | 61  | 83  | 73  | 66  | 61  | 71  | 65  | 60  | 69  | 64  | 60  | 68  | 63  | 59  | 58  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 79  | 68  | 60  | 55  | 77  | 67  | 60  | 54  | 65  | 59  | 54  | 63  | 58  | 54  | 62  | 57  | 53  | 51  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 73  | 62  | 54  | 49  | 72  | 61  | 54  | 49  | 59  | 53  | 48  | 58  | 52  | 48  | 57  | 52  | 48  | 46  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 68  | 56  | 49  | 44  | 67  | 56  | 49  | 44  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 41  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 64  | 52  | 44  | 39  | 62  | 51  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 37  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 60  | 48  | 40  | 36  | 58  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 44  | 39  | 35  | 34  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°     | 90°  | 180° |
|-----|--------|------|------|
| 0°  | 4890   | 4890 | 4890 |
| 5°  | 18479  | 4584 | 2350 |
| 10° | 60069  | 3874 | 1531 |
| 15° | 118639 | 3144 | 1362 |
| 20° | 165710 | 2631 | 2404 |
| 25° | 206958 | 3647 | 7204 |
| 30° | 231852 | 2108 | 3412 |
| 35° | 231139 | 1539 | 1773 |
| 40° | 213979 | 844  | 844  |
| 45° | 194338 | 535  | 457  |
| 50° | 144123 | 290  | 213  |
| 55° | 35191  | 239  | 96   |
| 60° | 6239   | 219  | 55   |
| 65° | 1141   | 324  | 65   |
| 70° | 240    | 401  | 160  |
| 75° | 0      | 530  | 212  |
| 80° | 0      | 789  | 316  |
| 85° | 0      | 1572 | 629  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 17.0   | 1.4       |
| 10°-20°   | 137.7  | 11.3      |
| 20°-30°   | 334.2  | 27.4      |
| 30°-40°   | 394.5  | 32.3      |
| 40°-50°   | 279.8  | 22.9      |
| 50°-60°   | 50.8   | 4.2       |
| 60°-70°   | 3.3    | 0.3       |
| 70°-80°   | 1.7    | 0.1       |
| 80°-90°   | 1.5    | 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°    | 488.9  | 40.1      |
| 0°-40°    | 883.4  | 72.4      |
| 0°-60°    | 1214.0 | 99.5      |
| 0°-90°    | 1220.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1220.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 89   | 89   | 89  | 89   | 89   |      |
| 5°  | 336  | 192  | 83  | 50   | 43   | 56   |
| 15° | 2090 | 760  | 55  | 28   | 24   | 604  |
| 25° | 3422 | 1032 | 60  | 133  | 119  | 1574 |
| 35° | 3454 | 592  | 23  | 26   | 26   | 2128 |
| 45° | 2507 | 113  | 7   | 7    | 6    | 1882 |
| 55° | 368  | 15   | 2   | 2    | 1    | 478  |
| 65° | 9    | 2    | 2   | 2    | 0    | 14   |
| 75° | 0    | 2    | 2   | 2    | 1    | 0    |
| 85° | 0    | 2    | 2   | 2    | 1    | 0    |
| 90° | 0    | 0    | 0   | 0    | 0    |      |



TEST NUMBER: P175584

CATALOG NUMBER: LDA6A15830D010TE LAR35FL 6LAL1 30° Tilt

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°    | 22.5°  | 25°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 89.2   | 89.2   | 89.2   | 89.2   | 89.2   | 89.2   | 89.2   | 89.2   | 89.2   | 89.2   | 89.2   |
| 2.5°  | 149.5  | 146.1  | 146.1  | 147.6  | 148.1  | 145.1  | 145.1  | 141.2  | 139.2  | 139.7  | 135.8  |
| 5°    | 335.8  | 342.7  | 329.0  | 330.9  | 329.5  | 320.1  | 316.2  | 303.0  | 294.2  | 289.7  | 275.5  |
| 7.5°  | 656.0  | 645.7  | 625.1  | 626.1  | 620.7  | 605.5  | 592.7  | 569.7  | 550.1  | 535.8  | 509.9  |
| 10°   | 1079.1 | 1082.0 | 1049.1 | 1046.2 | 1033.5 | 1004.5 | 976.1  | 931.5  | 891.3  | 859.9  | 811.9  |
| 12.5° | 1596.8 | 1566.9 | 1555.1 | 1546.8 | 1526.2 | 1486.5 | 1442.3 | 1380.6 | 1319.3 | 1266.8 | 1192.8 |
| 15°   | 2090.4 | 2073.8 | 2056.1 | 2041.9 | 2015.9 | 1965.9 | 1910.5 | 1833.1 | 1753.2 | 1684.0 | 1590.4 |
| 17.5° | 2517.0 | 2496.9 | 2475.8 | 2459.1 | 2413.5 | 2378.2 | 2303.7 | 2239.5 | 2148.3 | 2065.9 | 1953.2 |
| 20°   | 2840.5 | 2829.8 | 2805.2 | 2782.2 | 2733.7 | 2687.6 | 2610.1 | 2537.1 | 2436.1 | 2331.7 | 2223.8 |
| 22.5° | 3126.8 | 3110.7 | 3079.8 | 3045.0 | 2984.2 | 2923.4 | 2834.2 | 2752.8 | 2642.5 | 2531.2 | 2415.0 |
| 25°   | 3421.5 | 3414.1 | 3367.1 | 3311.2 | 3225.4 | 3139.6 | 3028.3 | 2927.8 | 2803.3 | 2686.1 | 2550.8 |
| 26°   | 3564.2 | 3530.8 | 3482.8 | 3417.6 | 3316.6 | 3212.6 | 3092.0 | 2981.7 | 2848.9 | 2720.4 | 2585.1 |
| 27°   | 3635.2 | 3609.3 | 3567.1 | 3500.9 | 3395.5 | 3272.9 | 3140.1 | 3021.4 | 2880.7 | 2747.9 | 2607.7 |
| 28°   | 3668.1 | 3646.0 | 3611.2 | 3549.9 | 3447.5 | 3309.7 | 3170.0 | 3044.5 | 2897.9 | 2760.6 | 2616.0 |
| 29°   | 3675.4 | 3658.3 | 3627.9 | 3571.5 | 3475.4 | 3334.7 | 3185.7 | 3054.8 | 2905.3 | 2765.0 | 2618.0 |
| 30°   | 3662.7 | 3652.9 | 3629.4 | 3575.4 | 3482.8 | 3342.1 | 3188.6 | 3054.8 | 2903.3 | 2760.6 | 2610.1 |
| 31°   | 3641.6 | 3635.7 | 3616.1 | 3565.6 | 3475.4 | 3332.8 | 3177.3 | 3043.0 | 2890.5 | 2746.4 | 2592.5 |
| 32°   | 3601.9 | 3607.3 | 3591.1 | 3541.6 | 3452.4 | 3308.7 | 3155.3 | 3022.4 | 2869.5 | 2723.9 | 2565.5 |
| 33°   | 3559.7 | 3573.0 | 3558.3 | 3504.8 | 3412.7 | 3270.0 | 3122.4 | 2993.0 | 2839.6 | 2692.5 | 2530.2 |
| 34°   | 3513.7 | 3528.9 | 3510.2 | 3449.9 | 3354.8 | 3217.1 | 3077.8 | 2952.3 | 2799.8 | 2652.3 | 2484.1 |
| 35°   | 3453.8 | 3466.6 | 3442.1 | 3378.3 | 3281.3 | 3150.9 | 3022.4 | 2899.9 | 2749.4 | 2599.3 | 2427.3 |
| 36°   | 3353.3 | 3384.2 | 3358.7 | 3293.0 | 3197.9 | 3078.8 | 2959.7 | 2840.5 | 2691.5 | 2541.0 | 2365.0 |
| 37°   | 3285.7 | 3291.6 | 3266.6 | 3199.9 | 3112.1 | 3006.2 | 2893.5 | 2777.3 | 2630.2 | 2475.8 | 2296.8 |
| 38°   | 3188.1 | 3190.6 | 3165.6 | 3103.3 | 3027.3 | 2930.3 | 2822.4 | 2709.2 | 2562.1 | 2405.2 | 2220.9 |
| 39°   | 3086.2 | 3085.7 | 3063.1 | 3009.7 | 2942.0 | 2849.4 | 2744.9 | 2633.7 | 2484.6 | 2323.8 | 2132.1 |
| 40°   | 2990.1 | 2988.6 | 2969.0 | 2920.0 | 2854.3 | 2764.5 | 2662.1 | 2550.3 | 2398.3 | 2233.6 | 2034.1 |
| 42.5° | 2762.6 | 2752.8 | 2733.2 | 2685.1 | 2622.4 | 2533.6 | 2426.8 | 2306.2 | 2144.9 | 1959.1 | 1733.5 |
| 45°   | 2506.7 | 2485.6 | 2465.0 | 2409.6 | 2339.0 | 2243.9 | 2123.8 | 1987.0 | 1806.6 | 1603.1 | 1368.8 |
| 47.5° | 2179.2 | 2150.7 | 2130.6 | 2067.4 | 1987.0 | 1880.1 | 1742.9 | 1593.8 | 1403.6 | 1185.4 | 946.2  |
| 50°   | 1689.9 | 1626.7 | 1605.6 | 1506.1 | 1397.7 | 1259.5 | 1086.9 | 914.3  | 722.6  | 544.2  | 380.9  |
| 51°   | 1342.3 | 1271.7 | 1251.1 | 1149.2 | 1044.2 | 916.8  | 759.9  | 613.8  | 464.8  | 343.2  | 254.9  |
| 52°   | 981.0  | 915.3  | 896.7  | 804.5  | 716.3  | 613.8  | 497.1  | 401.0  | 317.2  | 256.4  | 205.9  |
| 53°   | 677.0  | 634.4  | 617.7  | 555.9  | 497.6  | 431.9  | 361.3  | 303.0  | 249.0  | 205.9  | 168.2  |
| 54°   | 499.6  | 470.6  | 457.4  | 412.8  | 370.6  | 324.5  | 276.0  | 236.3  | 199.0  | 167.2  | 135.8  |
| 55°   | 368.2  | 346.6  | 337.3  | 306.4  | 279.0  | 247.6  | 215.2  | 186.8  | 157.9  | 131.4  | 103.0  |
| 57.5° | 166.7  | 155.9  | 152.0  | 138.7  | 128.0  | 118.6  | 96.6   | 80.9   | 65.7   | 52.9   | 41.2   |
| 60°   | 56.9   | 52.5   | 51.0   | 46.1   | 43.1   | 40.2   | 33.8   | 28.9   | 25.0   | 21.6   | 18.1   |
| 61°   | 36.3   | 33.8   | 32.8   | 30.4   | 28.9   | 27.5   | 23.5   | 20.6   | 18.1   | 16.2   | 13.7   |
| 62°   | 24.5   | 23.0   | 22.6   | 21.1   | 20.1   | 19.6   | 17.2   | 15.2   | 13.2   | 11.8   | 10.3   |
| 63°   | 17.2   | 16.2   | 16.2   | 15.2   | 14.7   | 14.2   | 12.3   | 11.3   | 9.8    | 8.8    | 7.8    |
| 64°   | 12.3   | 11.8   | 11.3   | 10.8   | 10.3   | 10.3   | 8.8    | 8.3    | 7.4    | 6.9    | 5.9    |
| 65°   | 8.8    | 8.3    | 8.3    | 7.8    | 7.8    | 7.4    | 6.9    | 5.9    | 5.4    | 4.9    | 4.4    |
| 66°   | 6.4    | 5.9    | 5.9    | 5.9    | 5.4    | 5.4    | 4.9    | 4.4    | 3.9    | 3.9    | 3.4    |



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CATALOG NUMBER: LDA6A15830D010TE LAR35FL 6LAL1 30° Tilt

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 25° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 72.5° | 0.5 | 0.5  | 0.5 | 0.5  | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 |
| 75°   | 0.0 | 0.0  | 0.0 | 0.5  | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 |
| 77.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 |
| 80°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 |
| 82.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.5   | 0.5 | 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°    | 89.2   | 89.2   | 89.2   | 89.2   | 89.2   | 89.2   | 89.2   | 89.2   | 89.2  | 89.2  | 89.2  |
| 2.5°  | 136.8  | 133.3  | 132.4  | 131.4  | 129.9  | 128.4  | 124.0  | 123.1  | 122.1 | 118.2 | 117.2 |
| 5°    | 271.6  | 257.9  | 249.0  | 239.7  | 229.9  | 218.7  | 200.5  | 192.2  | 183.4 | 168.2 | 160.8 |
| 7.5°  | 494.7  | 466.7  | 444.2  | 421.1  | 398.1  | 371.1  | 335.8  | 314.7  | 292.2 | 262.3 | 242.2 |
| 10°   | 775.6  | 724.1  | 680.0  | 637.3  | 596.2  | 549.1  | 503.0  | 456.9  | 417.7 | 371.1 | 333.4 |
| 12.5° | 1129.1 | 1045.2 | 972.7  | 901.1  | 830.5  | 755.0  | 681.5  | 609.9  | 540.3 | 478.5 | 420.1 |
| 15°   | 1506.6 | 1398.2 | 1296.7 | 1194.8 | 1087.9 | 974.6  | 863.8  | 760.4  | 661.8 | 575.6 | 496.6 |
| 17.5° | 1828.7 | 1705.6 | 1575.7 | 1448.7 | 1312.4 | 1160.4 | 1024.6 | 891.3  | 764.8 | 653.5 | 552.0 |
| 20°   | 2089.5 | 1949.3 | 1795.3 | 1644.3 | 1477.6 | 1314.9 | 1152.1 | 993.3  | 832.9 | 697.1 | 574.6 |
| 22.5° | 2276.3 | 2127.2 | 1959.1 | 1787.5 | 1597.3 | 1409.5 | 1220.7 | 1033.9 | 853.5 | 699.6 | 563.3 |
| 25°   | 2401.8 | 2239.5 | 2057.1 | 1866.9 | 1654.6 | 1447.7 | 1235.9 | 1031.5 | 834.4 | 670.2 | 525.6 |
| 26°   | 2431.7 | 2265.5 | 2078.2 | 1880.6 | 1662.9 | 1450.7 | 1228.6 | 1017.8 | 816.3 | 648.6 | 502.5 |
| 27°   | 2450.8 | 2279.7 | 2087.5 | 1884.1 | 1662.5 | 1454.1 | 1211.9 | 996.2  | 790.8 | 622.1 | 476.0 |
| 28°   | 2457.6 | 2283.1 | 2087.0 | 1877.2 | 1651.2 | 1420.3 | 1185.9 | 965.3  | 762.8 | 590.3 | 445.6 |
| 29°   | 2456.7 | 2278.7 | 2077.2 | 1860.5 | 1630.1 | 1391.8 | 1150.1 | 927.1  | 724.6 | 554.5 | 412.8 |
| 30°   | 2446.9 | 2264.0 | 2057.1 | 1832.6 | 1598.2 | 1352.1 | 1104.1 | 881.0  | 682.4 | 515.3 | 377.0 |
| 31°   | 2426.8 | 2239.0 | 2024.8 | 1791.4 | 1554.1 | 1301.6 | 1050.1 | 829.0  | 635.9 | 473.1 | 340.2 |
| 32°   | 2396.4 | 2203.2 | 1981.1 | 1740.4 | 1500.2 | 1242.8 | 989.3  | 765.3  | 586.3 | 430.0 | 308.4 |
| 33°   | 2357.1 | 2157.6 | 1928.7 | 1680.6 | 1439.4 | 1175.1 | 922.2  | 720.7  | 535.8 | 386.3 | 266.7 |
| 34°   | 2307.1 | 2102.2 | 1864.9 | 1611.5 | 1368.8 | 1100.1 | 852.6  | 652.5  | 484.9 | 342.2 | 235.3 |
| 35°   | 2247.3 | 2035.5 | 1792.4 | 1535.0 | 1290.4 | 1018.8 | 789.3  | 591.7  | 432.9 | 298.1 | 200.0 |
| 36°   | 2180.2 | 1961.5 | 1711.0 | 1452.6 | 1204.6 | 935.9  | 717.2  | 530.9  | 381.4 | 254.9 | 168.6 |
| 37°   | 2106.6 | 1880.1 | 1624.7 | 1362.4 | 1112.4 | 850.1  | 645.2  | 471.1  | 330.9 | 213.8 | 143.6 |
| 38°   | 2023.8 | 1788.9 | 1529.1 | 1262.9 | 1013.8 | 764.8  | 574.1  | 411.3  | 280.4 | 177.0 | 125.5 |
| 39°   | 1927.7 | 1685.0 | 1425.2 | 1153.1 | 912.9  | 679.0  | 504.0  | 352.5  | 232.9 | 147.6 | 111.8 |
| 40°   | 1820.8 | 1574.7 | 1311.4 | 1036.9 | 810.9  | 595.7  | 435.3  | 295.6  | 190.2 | 127.5 | 100.0 |
| 42.5° | 1507.0 | 1251.6 | 987.4  | 762.3  | 573.6  | 405.0  | 279.0  | 177.0  | 123.1 | 94.6  | 73.5  |
| 45°   | 1136.4 | 897.2  | 681.9  | 513.3  | 373.1  | 242.7  | 158.8  | 112.8  | 87.3  | 65.7  | 51.5  |
| 47.5° | 743.7  | 558.9  | 397.6  | 276.0  | 186.8  | 124.5  | 97.1   | 73.5   | 56.9  | 43.6  | 34.8  |
| 50°   | 280.4  | 206.9  | 160.8  | 128.4  | 101.5  | 77.0   | 60.8   | 46.6   | 35.8  | 27.5  | 22.1  |
| 51°   | 207.4  | 167.2  | 131.9  | 105.4  | 83.8   | 63.7   | 49.5   | 36.8   | 28.4  | 22.1  | 18.1  |
| 52°   | 170.1  | 137.3  | 108.3  | 86.3   | 68.1   | 49.5   | 38.2   | 28.9   | 23.0  | 18.1  | 14.7  |
| 53°   | 139.2  | 111.8  | 87.3   | 68.1   | 52.0   | 37.7   | 29.4   | 23.0   | 18.6  | 14.7  | 12.3  |
| 54°   | 110.8  | 86.8   | 65.2   | 50.0   | 38.7   | 28.4   | 23.0   | 18.1   | 14.7  | 12.3  | 10.3  |
| 55°   | 82.4   | 62.8   | 46.6   | 36.8   | 28.9   | 22.1   | 18.1   | 14.7   | 12.3  | 9.8   | 8.3   |
| 57.5° | 33.8   | 27.0   | 22.1   | 18.1   | 15.2   | 12.3   | 10.3   | 8.8    | 7.4   | 5.9   | 4.9   |
| 60°   | 15.7   | 13.2   | 11.8   | 9.8    | 8.3    | 6.9    | 5.9    | 5.4    | 4.4   | 3.9   | 3.4   |
| 61°   | 12.3   | 10.3   | 8.8    | 7.8    | 6.9    | 5.4    | 4.9    | 4.4    | 3.9   | 3.4   | 2.9   |
| 62°   | 9.3    | 7.8    | 6.9    | 5.9    | 5.4    | 4.4    | 3.9    | 3.4    | 2.9   | 2.9   | 2.5   |
| 63°   | 6.9    | 5.9    | 5.4    | 4.9    | 4.4    | 3.9    | 3.4    | 2.9    | 2.9   | 2.5   | 2.5   |
| 64°   | 5.4    | 4.9    | 4.4    | 3.9    | 3.4    | 2.9    | 2.9    | 2.5    | 2.5   | 2.0   | 2.0   |
| 65°   | 3.9    | 3.9    | 3.4    | 2.9    | 2.9    | 2.5    | 2.5    | 2.5    | 2.0   | 2.0   | 2.0   |
| 66°   | 3.4    | 2.9    | 2.5    | 2.5    | 2.5    | 2.0    | 2.0    | 2.0    | 2.0   | 2.0   | 2.0   |





TEST NUMBER: P175584

CATALOG NUMBER: LDA6A15830D010TE LAR35FL 6LAL1 30° Tilt

**CANDELA DISTRIBUTION (continued):**

|       | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° | 47.5° | 50° | 52.5° |
|-------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| 72.5° | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 | 1.5   | 1.5 | 1.5   | 1.5 | 1.5   |
| 75°   | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 | 1.5   | 1.5 | 1.5   | 1.5 | 1.5   |
| 77.5° | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 | 1.5   | 1.5 | 1.5   | 1.5 | 1.5   |
| 80°   | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 | 1.5   | 1.5 | 1.5   | 1.5 | 1.5   |
| 82.5° | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 1.5 | 1.5   | 1.5 | 1.5   | 1.5 | 1.5   |
| 85°   | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 1.5 | 1.5   | 1.5 | 1.5   | 1.5 | 1.5   |
| 87.5° | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 1.5 | 1.5   | 1.5 | 1.5   | 1.5 | 1.5   |
| 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: P175584

CATALOG NUMBER: LDA6A15830D010TE LAR35FL 6LAL1 30° Tilt

**CANDELA DISTRIBUTION (continued):**

|       | 55°   | 57.5° | 60°   | 62.5° | 65°   | 67.5° | 70°   | 72.5° | 75°   | 77.5° | 80°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 0°    | 89.2  | 89.2  | 89.2  | 89.2  | 89.2  | 89.2  | 89.2  | 89.2  | 89.2  | 89.2  | 89.2 |
| 2.5°  | 114.7 | 114.2 | 110.8 | 109.3 | 107.4 | 104.9 | 103.0 | 101.5 | 99.0  | 97.1  | 95.1 |
| 5°    | 150.5 | 145.1 | 136.3 | 130.4 | 125.0 | 119.6 | 115.2 | 111.3 | 106.9 | 103.0 | 99.0 |
| 7.5°  | 217.2 | 199.0 | 177.0 | 160.3 | 146.6 | 134.3 | 125.5 | 118.2 | 111.3 | 105.4 | 98.5 |
| 10°   | 291.7 | 258.4 | 224.5 | 192.7 | 167.7 | 146.6 | 131.9 | 120.6 | 111.3 | 103.4 | 94.6 |
| 12.5° | 360.3 | 311.3 | 261.8 | 219.1 | 182.4 | 153.4 | 133.3 | 119.1 | 108.3 | 98.5  | 88.2 |
| 15°   | 418.7 | 353.0 | 290.2 | 235.3 | 189.7 | 153.9 | 130.9 | 115.2 | 103.0 | 91.2  | 80.9 |
| 17.5° | 455.4 | 372.1 | 298.1 | 234.8 | 184.8 | 146.1 | 123.1 | 107.9 | 94.1  | 82.4  | 72.6 |
| 20°   | 463.3 | 367.7 | 286.8 | 217.7 | 167.7 | 131.4 | 112.3 | 96.6  | 82.9  | 72.6  | 64.2 |
| 22.5° | 443.7 | 342.7 | 256.9 | 188.3 | 143.6 | 116.2 | 100.0 | 84.8  | 73.5  | 65.2  | 58.3 |
| 25°   | 401.5 | 299.1 | 215.7 | 154.4 | 123.1 | 102.5 | 87.8  | 75.5  | 67.2  | 61.8  | 57.9 |
| 26°   | 379.5 | 277.5 | 197.1 | 142.2 | 116.2 | 97.6  | 83.8  | 73.0  | 66.2  | 62.3  | 59.3 |
| 27°   | 354.0 | 254.4 | 178.5 | 131.4 | 109.8 | 91.2  | 78.9  | 69.1  | 62.8  | 59.3  | 57.4 |
| 28°   | 326.0 | 229.9 | 160.8 | 121.6 | 102.0 | 83.3  | 72.1  | 62.8  | 56.4  | 52.5  | 49.0 |
| 29°   | 296.6 | 205.4 | 144.6 | 112.8 | 94.1  | 76.5  | 65.7  | 56.9  | 50.5  | 46.6  | 43.1 |
| 30°   | 265.7 | 181.9 | 130.9 | 104.9 | 86.3  | 70.1  | 60.3  | 52.0  | 46.1  | 42.2  | 38.7 |
| 31°   | 235.8 | 160.3 | 121.1 | 96.6  | 79.4  | 64.7  | 55.9  | 49.0  | 43.1  | 39.2  | 36.8 |
| 32°   | 205.9 | 142.2 | 111.8 | 88.7  | 73.0  | 60.8  | 52.0  | 46.1  | 41.2  | 37.7  | 35.8 |
| 33°   | 178.9 | 127.0 | 103.4 | 81.4  | 67.7  | 56.9  | 49.5  | 44.1  | 39.7  | 36.8  | 34.8 |
| 34°   | 154.9 | 116.7 | 94.1  | 74.0  | 62.3  | 52.5  | 45.6  | 40.7  | 36.3  | 33.8  | 31.4 |
| 35°   | 135.3 | 105.9 | 84.8  | 66.7  | 55.9  | 47.1  | 41.2  | 36.3  | 32.4  | 29.9  | 27.5 |
| 36°   | 120.1 | 95.1  | 75.5  | 59.3  | 50.0  | 42.7  | 36.8  | 32.4  | 28.9  | 26.5  | 24.5 |
| 37°   | 108.3 | 85.3  | 67.7  | 53.4  | 45.6  | 38.2  | 33.3  | 29.4  | 26.0  | 23.5  | 21.6 |
| 38°   | 97.6  | 76.0  | 60.8  | 48.5  | 41.2  | 34.8  | 29.9  | 27.0  | 23.5  | 21.1  | 19.1 |
| 39°   | 86.8  | 66.7  | 54.4  | 44.1  | 37.7  | 31.9  | 27.5  | 24.5  | 21.1  | 19.1  | 17.2 |
| 40°   | 77.0  | 59.8  | 49.0  | 39.7  | 34.3  | 28.4  | 25.0  | 22.1  | 19.1  | 17.2  | 15.2 |
| 42.5° | 56.9  | 44.6  | 37.3  | 30.4  | 26.0  | 22.1  | 19.1  | 16.2  | 14.2  | 12.7  | 11.3 |
| 45°   | 40.7  | 32.4  | 27.0  | 22.1  | 18.6  | 15.7  | 13.2  | 11.8  | 10.3  | 9.3   | 8.3  |
| 47.5° | 27.5  | 22.1  | 18.6  | 14.7  | 12.7  | 10.8  | 9.3   | 8.3   | 7.4   | 6.4   | 5.9  |
| 50°   | 17.6  | 14.2  | 12.3  | 9.8   | 8.3   | 7.4   | 6.4   | 5.4   | 4.9   | 4.4   | 4.4  |
| 51°   | 14.7  | 11.8  | 10.3  | 8.3   | 7.4   | 6.4   | 5.4   | 4.9   | 4.4   | 3.9   | 3.4  |
| 52°   | 12.3  | 9.8   | 8.3   | 6.9   | 5.9   | 5.4   | 4.4   | 3.9   | 3.4   | 3.4   | 3.4  |
| 53°   | 10.3  | 8.3   | 7.4   | 5.9   | 5.4   | 4.4   | 3.9   | 3.4   | 2.9   | 2.9   | 2.9  |
| 54°   | 8.3   | 6.9   | 5.9   | 4.9   | 4.4   | 3.9   | 3.4   | 2.9   | 2.9   | 2.5   | 2.5  |
| 55°   | 6.9   | 5.9   | 4.9   | 4.4   | 3.9   | 3.4   | 2.9   | 2.5   | 2.5   | 2.5   | 2.5  |
| 57.5° | 4.4   | 3.9   | 3.4   | 2.9   | 2.5   | 2.5   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0  |
| 60°   | 2.9   | 2.5   | 2.5   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0  |
| 61°   | 2.5   | 2.5   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0  |
| 62°   | 2.5   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0  |
| 63°   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0  |
| 64°   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0  |
| 65°   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0  |
| 66°   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0  |



TEST NUMBER: P175584

CATALOG NUMBER: LDA6A15830D010TE LAR35FL 6LAL1 30° Tilt

**CANDELA DISTRIBUTION (continued):**

|       | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° | 77.5° | 80° |
|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| 72.5° | 1.5 | 1.5   | 1.5 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 |
| 75°   | 1.5 | 1.5   | 1.5 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 |
| 77.5° | 1.5 | 1.5   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 |
| 80°   | 1.5 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.5 |
| 82.5° | 1.5 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.5 |
| 85°   | 1.5 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.5 |
| 87.5° | 1.5 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 |
| 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: P175584

CATALOG NUMBER: LDA6A15830D010TE LAR35FL 6LAL1 30° Tilt

**CANDELA DISTRIBUTION (continued):**

|       | 82.5° | 85°  | 87.5° | 90°  | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|------|-------|------|--------|-------|--------|-------|
| 0°    | 89.2  | 89.2 | 89.2  | 89.2 | 89.2   | 89.2  | 89.2   | 89.2  |
| 2.5°  | 92.7  | 91.2 | 88.7  | 87.3 | 73.5   | 66.2  | 59.3   | 58.8  |
| 5°    | 94.6  | 90.7 | 86.8  | 83.3 | 60.8   | 50.5  | 43.6   | 42.7  |
| 7.5°  | 92.7  | 86.8 | 81.4  | 77.5 | 51.0   | 39.7  | 33.8   | 32.8  |
| 10°   | 87.3  | 80.9 | 74.5  | 69.6 | 43.6   | 33.8  | 28.4   | 27.5  |
| 12.5° | 80.4  | 73.5 | 67.2  | 61.8 | 37.7   | 30.4  | 26.0   | 25.0  |
| 15°   | 72.6  | 65.7 | 60.3  | 55.4 | 34.8   | 27.9  | 25.0   | 24.0  |
| 17.5° | 65.2  | 58.8 | 53.9  | 49.5 | 32.4   | 27.0  | 25.5   | 26.0  |
| 20°   | 57.9  | 52.9 | 48.5  | 45.1 | 33.3   | 31.9  | 36.8   | 41.2  |
| 22.5° | 53.4  | 50.0 | 47.6  | 45.1 | 51.5   | 79.4  | 179.4  | 212.8 |
| 25°   | 55.9  | 55.4 | 56.9  | 60.3 | 105.4  | 133.3 | 117.7  | 119.1 |
| 26°   | 58.8  | 59.8 | 62.3  | 65.7 | 90.2   | 83.8  | 77.0   | 82.4  |
| 27°   | 56.9  | 57.4 | 56.9  | 56.4 | 59.3   | 58.8  | 61.8   | 67.2  |
| 28°   | 47.6  | 46.6 | 45.6  | 44.1 | 45.1   | 50.0  | 56.9   | 61.3  |
| 29°   | 41.2  | 40.2 | 38.7  | 37.3 | 39.2   | 48.5  | 54.9   | 57.9  |
| 30°   | 37.3  | 35.8 | 34.3  | 33.3 | 39.2   | 48.0  | 52.5   | 53.9  |
| 31°   | 34.8  | 33.8 | 32.8  | 32.8 | 39.7   | 45.6  | 48.0   | 48.5  |
| 32°   | 34.8  | 33.8 | 33.3  | 33.3 | 36.8   | 40.7  | 42.2   | 42.7  |
| 33°   | 33.8  | 32.8 | 31.4  | 30.9 | 32.4   | 35.3  | 36.8   | 36.8  |
| 34°   | 29.9  | 28.9 | 27.9  | 26.5 | 27.9   | 30.4  | 31.9   | 31.4  |
| 35°   | 26.0  | 25.0 | 24.0  | 23.0 | 24.0   | 26.5  | 27.0   | 26.5  |
| 36°   | 22.6  | 21.6 | 20.6  | 19.6 | 20.6   | 22.6  | 23.0   | 22.6  |
| 37°   | 20.1  | 19.1 | 18.1  | 17.2 | 17.2   | 19.6  | 20.1   | 19.1  |
| 38°   | 18.1  | 16.7 | 15.7  | 15.2 | 15.2   | 17.2  | 17.2   | 16.2  |
| 39°   | 16.2  | 15.2 | 14.2  | 13.2 | 13.2   | 14.7  | 14.7   | 13.7  |
| 40°   | 14.2  | 13.2 | 12.3  | 11.8 | 11.8   | 12.7  | 12.7   | 11.8  |
| 42.5° | 10.3  | 9.8  | 9.3   | 8.8  | 8.8    | 9.8   | 9.3    | 8.3   |
| 45°   | 7.8   | 7.4  | 6.9   | 6.9  | 6.9    | 7.4   | 6.4    | 5.9   |
| 47.5° | 5.4   | 5.4  | 4.9   | 4.9  | 4.9    | 5.4   | 4.9    | 4.4   |
| 50°   | 3.9   | 3.9  | 3.4   | 3.4  | 3.9    | 3.9   | 3.4    | 2.5   |
| 51°   | 3.4   | 3.4  | 3.4   | 2.9  | 3.4    | 3.4   | 2.9    | 2.5   |
| 52°   | 2.9   | 2.9  | 2.9   | 2.9  | 2.9    | 2.9   | 2.5    | 2.0   |
| 53°   | 2.5   | 2.5  | 2.5   | 2.5  | 2.5    | 2.5   | 2.0    | 1.5   |
| 54°   | 2.5   | 2.5  | 2.5   | 2.5  | 2.5    | 2.5   | 1.5    | 1.5   |
| 55°   | 2.5   | 2.5  | 2.5   | 2.5  | 2.5    | 2.0   | 1.5    | 1.0   |
| 57.5° | 2.0   | 2.0  | 2.0   | 2.0  | 2.0    | 2.0   | 1.5    | 1.0   |
| 60°   | 2.0   | 2.0  | 2.0   | 2.0  | 2.0    | 2.0   | 1.0    | 0.5   |
| 61°   | 2.0   | 2.0  | 2.0   | 2.0  | 2.5    | 2.0   | 1.0    | 0.5   |
| 62°   | 2.0   | 2.0  | 2.0   | 2.0  | 2.5    | 2.0   | 1.0    | 0.5   |
| 63°   | 2.0   | 2.0  | 2.0   | 2.0  | 2.5    | 2.0   | 1.0    | 0.5   |
| 64°   | 2.0   | 2.0  | 2.0   | 2.5  | 2.5    | 2.0   | 1.0    | 0.5   |
| 65°   | 2.0   | 2.0  | 2.5   | 2.5  | 2.5    | 2.0   | 1.0    | 0.5   |
| 66°   | 2.0   | 2.5  | 2.5   | 2.5  | 2.5    | 2.0   | 1.0    | 0.5   |



TEST NUMBER: P175584

CATALOG NUMBER: LDA6A15830D010TE LAR35FL 6LAL1 30° Tilt

**CANDELA DISTRIBUTION (continued):**

|       | 82.5° | 85° | 87.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|-------|-----|--------|------|--------|------|
| 72.5° | 2.0   | 2.5 | 2.5   | 2.5 | 2.5    | 2.0  | 1.5    | 1.0  |
| 75°   | 2.0   | 2.5 | 2.5   | 2.5 | 2.5    | 2.0  | 1.5    | 1.0  |
| 77.5° | 2.5   | 2.5 | 2.5   | 2.5 | 2.5    | 2.0  | 1.5    | 1.0  |
| 80°   | 2.5   | 2.5 | 2.5   | 2.5 | 2.5    | 2.0  | 1.5    | 1.0  |
| 82.5° | 2.5   | 2.5 | 2.5   | 2.5 | 2.5    | 2.0  | 1.5    | 1.0  |
| 85°   | 2.5   | 2.5 | 2.5   | 2.5 | 2.5    | 2.0  | 1.5    | 1.0  |
| 87.5° | 2.5   | 2.5 | 2.5   | 2.5 | 2.5    | 2.0  | 1.0    | 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°









|       |     |     |     |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 67.5° | 3.9 | 3.4 | 3.4 | 3.4 | 3.4 | 2.9 | 2.9 | 2.9 | 2.5 | 2.5 | 2.0 |
| 70°   | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.0 |





|       |     |     |     |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 67.5° | 2.0 | 2.0 | 2.0 | 2.0 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 70°   | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |





|       |     |     |     |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 67.5° | 1.5 | 1.5 | 1.5 | 1.5 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 70°   | 1.5 | 1.5 | 1.5 | 1.5 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |







|       |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|
| 67.5° | 2.0 | 2.5 | 2.5 | 2.5 | 2.5 | 2.0 | 1.0 | 1.0 |
| 70°   | 2.0 | 2.0 | 2.5 | 2.5 | 2.5 | 2.0 | 1.5 | 1.0 |



(END OF REPORT)