

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: P208845

Luminaire Tested: **LDSQA6A10830D010TE LARL20NF 6LSQA1H 30°**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P208845  
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: LDSQA6A10830D010TE 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 / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1055.7 lumens  
Efficiency: N/A  
Efficacy: 76.9 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

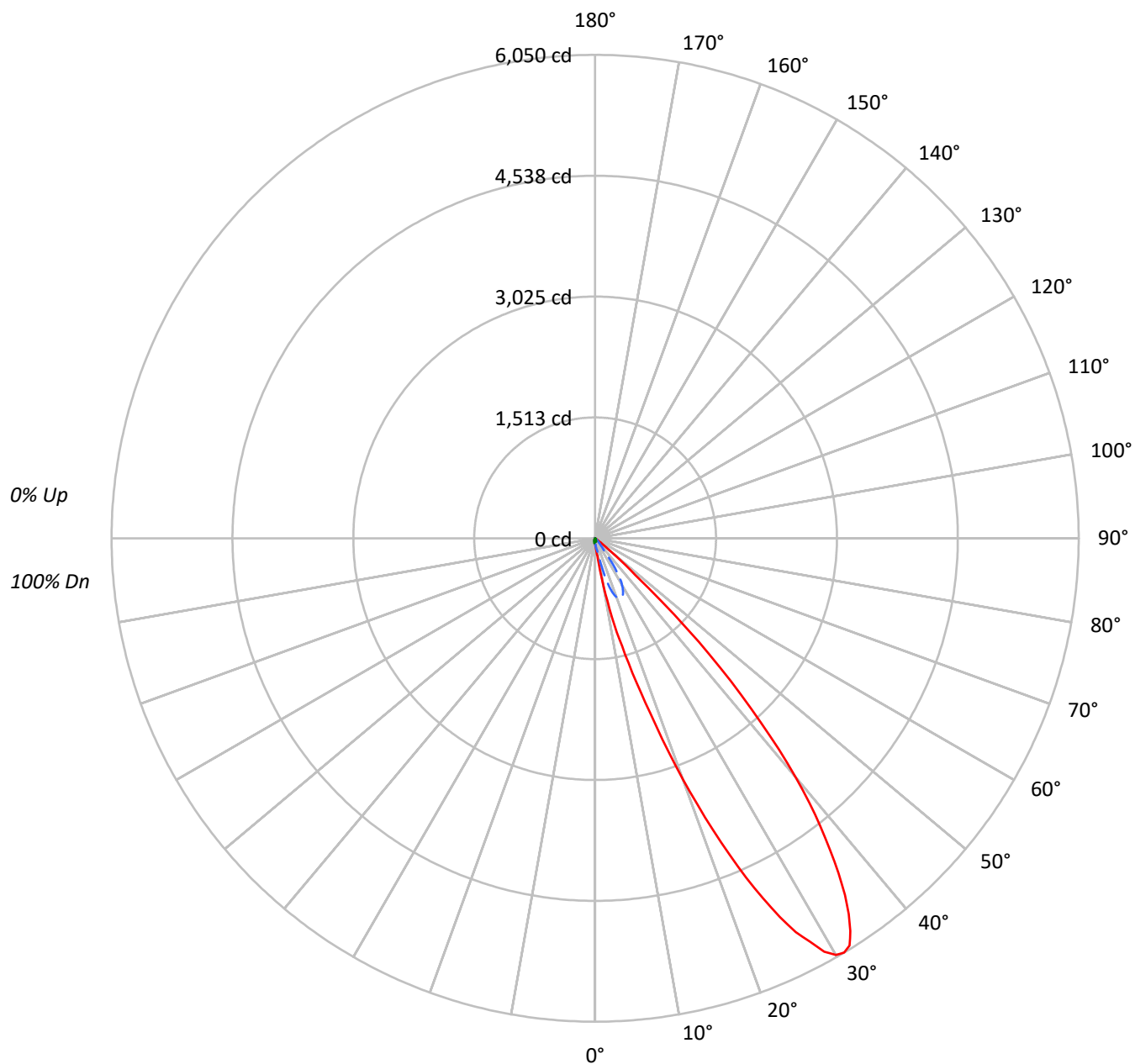
Input Watts (W): 13.73  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P208845

CATALOG NUMBER: LDSQA6A10830D010TE LARL20NF 6LSQA1H 30°

### Luminous Intensity Polar Plot





TEST NUMBER: P208845

CATALOG NUMBER: LDSQA6A10830D010TE LARL20NF 6LSQA1H 30°

**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°  | 3066   | 3066 | 3066 |
| 5°  | 6120   | 2974 | 2010 |
| 10° | 27517  | 2601 | 1504 |
| 15° | 72139  | 2126 | 1208 |
| 20° | 146877 | 1613 | 1017 |
| 25° | 236336 | 1192 | 865  |
| 30° | 299352 | 845  | 766  |
| 35° | 286354 | 552  | 678  |
| 40° | 219566 | 343  | 635  |
| 45° | 111666 | 219  | 591  |
| 50° | 17121  | 161  | 516  |
| 55° | 2244   | 150  | 368  |
| 60° | 241    | 138  | 241  |
| 65° | 41     | 163  | 204  |
| 70° | 50     | 252  | 252  |
| 75° | 0      | 333  | 200  |
| 80° | 0      | 397  | 198  |
| 85° | 0      | 790  | 198  |



TEST NUMBER: P208845

CATALOG NUMBER: LDSQA6A10830D010TE LARL20NF 6LSQA1H 30°

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 9.5    | 0.9       |
| 10°-20°   | 104.4  | 9.9       |
| 20°-30°   | 341.8  | 32.4      |
| 30°-40°   | 416.1  | 39.4      |
| 40°-50°   | 169.0  | 16.0      |
| 50°-60°   | 10.0   | 1.0       |
| 60°-70°   | 1.9    | 0.2       |
| 70°-80°   | 1.7    | 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°    | 455.7  | 43.2      |
| 0°-40°    | 871.8  | 82.6      |
| 0°-60°    | 1050.9 | 99.5      |
| 0°-90°    | 1055.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1055.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 71   | 71  | 71  | 71   | 71   |      |
| 5°  | 142  | 108 | 69  | 51   | 46   | 27   |
| 15° | 1618 | 540 | 48  | 29   | 27   | 527  |
| 25° | 4975 | 803 | 25  | 17   | 18   | 2286 |
| 35° | 5448 | 321 | 10  | 10   | 13   | 3295 |
| 45° | 1834 | 36  | 4   | 6    | 10   | 1407 |
| 55° | 30   | 4   | 2   | 4    | 5    | 52   |
| 65° | 0    | 1   | 2   | 3    | 2    | 1    |
| 75° | 0    | 1   | 2   | 2    | 1    | 0    |
| 85° | 0    | 1   | 2   | 2    | 0    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |



TEST NUMBER: P208845

CATALOG NUMBER: LDSQA6A10830D010TE LARL20NF 6LSQA1H 30°

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°    | 22.5°  | 25°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 71.2   | 71.2   | 71.2   | 71.2   | 71.2   | 71.2   | 71.2   | 71.2   | 71.2   | 71.2   | 71.2   |
| 2.5°  | 100.3  | 95.9   | 97.9   | 97.5   | 95.9   | 96.3   | 97.1   | 95.5   | 96.3   | 93.8   | 94.2   |
| 5°    | 141.6  | 135.1  | 138.7  | 134.7  | 136.7  | 134.7  | 134.7  | 132.3  | 130.2  | 129.8  | 127.8  |
| 7.5°  | 247.1  | 231.4  | 236.2  | 218.8  | 221.7  | 216.0  | 210.7  | 205.1  | 195.4  | 190.5  | 180.0  |
| 10°   | 629.4  | 584.9  | 595.4  | 557.4  | 556.6  | 543.2  | 518.6  | 501.6  | 465.6  | 440.1  | 403.7  |
| 11°   | 796.0  | 765.7  | 775.0  | 733.3  | 731.3  | 713.1  | 684.0  | 638.7  | 618.5  | 584.5  | 539.2  |
| 12°   | 1013.6 | 962.7  | 968.3  | 922.6  | 918.2  | 893.9  | 861.2  | 805.3  | 781.1  | 739.8  | 686.4  |
| 13°   | 1211.4 | 1166.1 | 1166.5 | 1116.8 | 1111.5 | 1080.8 | 1044.8 | 977.2  | 950.1  | 904.0  | 839.7  |
| 14°   | 1393.1 | 1358.7 | 1351.8 | 1325.1 | 1296.8 | 1260.8 | 1222.8 | 1146.3 | 1116.4 | 1064.6 | 991.0  |
| 15°   | 1618.4 | 1551.2 | 1537.9 | 1504.3 | 1469.9 | 1424.6 | 1378.1 | 1290.7 | 1257.5 | 1200.5 | 1127.3 |
| 17.5° | 2282.9 | 2200.0 | 2163.6 | 2095.2 | 2030.5 | 1943.6 | 1842.8 | 1687.9 | 1611.5 | 1509.1 | 1394.7 |
| 20°   | 3205.6 | 3074.9 | 3001.7 | 2892.1 | 2787.7 | 2645.3 | 2471.4 | 2227.5 | 2114.3 | 1916.1 | 1728.4 |
| 21°   | 3570.8 | 3458.4 | 3366.5 | 3243.2 | 3119.8 | 2951.1 | 2744.4 | 2486.4 | 2311.6 | 2079.9 | 1859.8 |
| 22°   | 3939.7 | 3832.9 | 3725.7 | 3590.2 | 3452.3 | 3255.3 | 3017.1 | 2717.7 | 2507.8 | 2237.2 | 1983.6 |
| 23°   | 4302.9 | 4194.5 | 4112.0 | 3926.4 | 3769.4 | 3547.3 | 3283.2 | 2941.0 | 2697.1 | 2386.9 | 2100.1 |
| 24°   | 4651.6 | 4533.1 | 4430.3 | 4243.1 | 4065.5 | 3818.4 | 3534.0 | 3157.8 | 2879.9 | 2529.7 | 2208.1 |
| 25°   | 4974.8 | 4844.1 | 4717.9 | 4525.4 | 4332.5 | 4062.7 | 3755.3 | 3354.0 | 3046.6 | 2659.1 | 2306.4 |
| 26°   | 5272.1 | 5093.7 | 4956.6 | 4778.6 | 4559.4 | 4276.2 | 3949.8 | 3523.5 | 3190.2 | 2767.1 | 2383.6 |
| 27°   | 5529.7 | 5349.3 | 5192.0 | 5001.5 | 4756.8 | 4451.8 | 4110.4 | 3645.2 | 3303.8 | 2848.0 | 2437.4 |
| 28°   | 5717.0 | 5564.5 | 5383.3 | 5178.2 | 4909.3 | 4572.7 | 4219.2 | 3742.3 | 3372.2 | 2890.1 | 2459.7 |
| 29°   | 5915.6 | 5742.1 | 5531.0 | 5298.0 | 5005.1 | 4648.8 | 4279.1 | 3792.9 | 3400.5 | 2899.8 | 2455.2 |
| 30°   | 6021.2 | 5861.4 | 5613.1 | 5359.0 | 5046.4 | 4673.0 | 4292.0 | 3800.6 | 3391.6 | 2876.3 | 2426.1 |
| 31°   | 6049.5 | 5900.2 | 5625.2 | 5360.3 | 5033.4 | 4649.2 | 4260.1 | 3760.9 | 3343.5 | 2821.7 | 2371.9 |
| 32°   | 6008.7 | 5859.4 | 5573.8 | 5308.5 | 4974.0 | 4582.4 | 4189.7 | 3690.1 | 3265.0 | 2740.0 | 2294.7 |
| 33°   | 5861.8 | 5740.9 | 5465.4 | 5210.2 | 4883.4 | 4483.3 | 4086.1 | 3574.9 | 3142.9 | 2634.0 | 2201.6 |
| 34°   | 5674.1 | 5561.3 | 5307.3 | 5045.6 | 4739.8 | 4347.4 | 3943.3 | 3435.3 | 3002.5 | 2503.8 | 2091.2 |
| 35°   | 5448.0 | 5336.8 | 5102.6 | 4842.5 | 4549.7 | 4166.6 | 3760.5 | 3260.2 | 2836.7 | 2356.5 | 1968.6 |
| 36°   | 5181.5 | 5065.8 | 4849.4 | 4601.8 | 4335.3 | 3948.2 | 3544.1 | 3058.7 | 2648.2 | 2196.4 | 1837.6 |
| 37°   | 4888.2 | 4771.7 | 4578.4 | 4349.0 | 4085.3 | 3702.3 | 3301.8 | 2836.7 | 2449.2 | 2030.1 | 1700.5 |
| 38°   | 4578.8 | 4470.4 | 4294.8 | 4065.9 | 3805.0 | 3428.8 | 3036.9 | 2633.6 | 2246.5 | 1861.9 | 1561.7 |
| 39°   | 4261.3 | 4147.2 | 3981.8 | 3756.9 | 3500.4 | 3129.1 | 2760.6 | 2400.2 | 2071.8 | 1696.4 | 1434.3 |
| 40°   | 3906.5 | 3798.9 | 3607.2 | 3430.9 | 3173.6 | 2820.1 | 2484.0 | 2142.6 | 1877.6 | 1537.5 | 1318.6 |
| 42.5° | 2889.7 | 2805.5 | 2703.2 | 2522.4 | 2332.3 | 2078.7 | 1843.7 | 1607.0 | 1414.5 | 1221.6 | 1061.0 |
| 45°   | 1833.9 | 1772.1 | 1719.5 | 1607.0 | 1530.2 | 1387.4 | 1266.0 | 1145.1 | 1054.1 | 953.0  | 774.6  |
| 47.5° | 678.7  | 649.6  | 631.0  | 581.7  | 577.2  | 531.5  | 527.0  | 585.3  | 619.7  | 583.3  | 438.9  |
| 50°   | 255.6  | 248.4  | 243.9  | 228.5  | 218.0  | 197.0  | 181.2  | 169.5  | 145.6  | 129.0  | 115.7  |
| 51°   | 167.9  | 162.6  | 154.9  | 153.7  | 149.3  | 137.5  | 130.2  | 127.8  | 111.6  | 94.2   | 80.9   |
| 52°   | 106.8  | 103.5  | 98.7   | 99.1   | 96.7   | 89.4   | 87.0   | 90.6   | 82.1   | 72.4   | 62.7   |
| 53°   | 67.1   | 65.5   | 62.3   | 62.3   | 61.9   | 57.0   | 56.2   | 59.5   | 57.8   | 53.4   | 47.7   |
| 54°   | 43.7   | 43.3   | 40.4   | 40.9   | 40.9   | 38.0   | 37.6   | 38.8   | 38.4   | 36.8   | 34.0   |
| 55°   | 29.9   | 29.5   | 29.1   | 27.9   | 27.1   | 26.3   | 26.3   | 26.7   | 26.3   | 25.5   | 23.9   |
| 57.5° | 10.5   | 10.1   | 10.5   | 10.1   | 10.1   | 10.5   | 10.1   | 10.9   | 11.3   | 11.3   | 10.5   |
| 60°   | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 3.6    | 4.0    | 4.0    | 4.0    |



TEST NUMBER: P208845

CATALOG NUMBER: LDSQA6A10830D010TE LARL20NF 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 25° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 63°   | 0.8 | 0.8  | 0.8 | 0.8  | 0.8 | 0.8   | 0.4 | 0.4   | 0.8 | 0.8   | 0.8 |
| 64°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.8 |
| 65°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.8 |
| 66°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 |
| 67.5° | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 |
| 70°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.8 |
| 72.5° | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.8 |
| 75°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 |
| 77.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 |
| 80°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 |
| 82.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 |
| 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: P208845

CATALOG NUMBER: LDSQA6A10830D010TE LARL20NF 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 27.5°  | 30°    | 32.5°  | 35°    | 37.5°  | 40°    | 42.5° | 45°   | 47.5° | 50°   | 52.5° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0°    | 71.2   | 71.2   | 71.2   | 71.2   | 71.2   | 71.2   | 71.2  | 71.2  | 71.2  | 71.2  | 71.2  |
| 2.5°  | 93.0   | 93.4   | 91.8   | 91.4   | 91.0   | 89.0   | 87.8  | 86.6  | 85.3  | 83.3  | 84.1  |
| 5°    | 124.6  | 124.6  | 120.9  | 118.5  | 117.3  | 112.9  | 110.8 | 108.0 | 104.8 | 102.3 | 101.1 |
| 7.5°  | 173.9  | 171.1  | 163.0  | 156.9  | 153.3  | 144.4  | 139.1 | 131.5 | 127.0 | 122.2 | 119.3 |
| 10°   | 368.9  | 349.9  | 310.2  | 281.9  | 255.2  | 222.9  | 193.3 | 170.3 | 155.3 | 144.4 | 137.5 |
| 11°   | 497.1  | 472.0  | 421.5  | 382.2  | 347.5  | 301.3  | 256.0 | 212.8 | 181.6 | 162.6 | 148.4 |
| 12°   | 637.9  | 605.5  | 544.8  | 496.3  | 453.8  | 396.0  | 338.2 | 281.1 | 236.2 | 200.6 | 171.5 |
| 13°   | 784.3  | 742.6  | 672.3  | 616.4  | 567.5  | 500.8  | 432.0 | 363.6 | 309.0 | 260.5 | 216.4 |
| 14°   | 929.5  | 878.5  | 801.3  | 737.0  | 682.0  | 607.5  | 529.5 | 453.4 | 389.5 | 328.4 | 274.6 |
| 15°   | 1061.4 | 1005.6 | 937.6  | 853.5  | 794.0  | 698.5  | 624.9 | 539.6 | 466.8 | 396.0 | 333.3 |
| 17.5° | 1298.0 | 1222.8 | 1142.7 | 1055.7 | 999.1  | 904.8  | 811.4 | 708.3 | 620.1 | 532.3 | 448.2 |
| 20°   | 1558.1 | 1423.8 | 1291.9 | 1162.5 | 1080.4 | 980.1  | 888.7 | 786.7 | 693.7 | 594.2 | 502.8 |
| 21°   | 1660.4 | 1506.7 | 1346.1 | 1200.9 | 1107.9 | 1000.7 | 906.1 | 800.5 | 702.6 | 596.6 | 500.4 |
| 22°   | 1757.5 | 1573.9 | 1393.5 | 1233.3 | 1131.8 | 1022.1 | 920.2 | 809.4 | 705.0 | 593.8 | 493.1 |
| 23°   | 1846.1 | 1638.6 | 1437.1 | 1261.6 | 1149.1 | 1032.7 | 927.5 | 813.0 | 703.8 | 587.3 | 482.1 |
| 24°   | 1926.6 | 1698.0 | 1474.4 | 1282.6 | 1159.7 | 1035.9 | 926.7 | 810.2 | 697.7 | 577.6 | 467.2 |
| 25°   | 1996.1 | 1745.0 | 1501.5 | 1294.0 | 1162.5 | 1034.3 | 922.6 | 802.9 | 685.6 | 561.0 | 449.8 |
| 26°   | 2048.7 | 1774.9 | 1514.4 | 1295.6 | 1158.5 | 1029.0 | 913.3 | 789.6 | 666.6 | 538.8 | 426.3 |
| 27°   | 2079.1 | 1785.8 | 1514.4 | 1288.7 | 1150.4 | 1019.3 | 898.4 | 768.9 | 641.9 | 511.3 | 397.2 |
| 28°   | 2084.3 | 1781.0 | 1503.5 | 1274.5 | 1135.0 | 1002.3 | 876.5 | 742.6 | 612.8 | 478.5 | 365.3 |
| 29°   | 2070.6 | 1761.5 | 1480.0 | 1250.3 | 1112.3 | 980.5  | 848.2 | 709.5 | 578.0 | 442.5 | 332.1 |
| 30°   | 2036.6 | 1725.9 | 1445.2 | 1219.5 | 1085.2 | 951.8  | 812.6 | 672.7 | 538.8 | 405.3 | 294.1 |
| 31°   | 1983.6 | 1674.6 | 1400.7 | 1182.3 | 1051.7 | 917.4  | 773.4 | 630.2 | 494.7 | 359.2 | 252.8 |
| 32°   | 1913.2 | 1602.6 | 1351.4 | 1139.8 | 1014.5 | 878.1  | 724.4 | 576.0 | 436.4 | 303.0 | 205.1 |
| 33°   | 1830.3 | 1532.2 | 1296.4 | 1094.1 | 974.0  | 824.3  | 656.9 | 495.1 | 365.3 | 240.3 | 155.3 |
| 34°   | 1735.7 | 1456.6 | 1237.3 | 1046.0 | 921.0  | 745.5  | 572.8 | 411.8 | 287.2 | 175.5 | 109.6 |
| 35°   | 1630.9 | 1376.1 | 1175.4 | 989.4  | 837.3  | 649.2  | 476.5 | 320.8 | 207.9 | 118.9 | 82.5  |
| 36°   | 1519.3 | 1285.9 | 1104.7 | 908.5  | 737.0  | 541.2  | 374.6 | 231.0 | 137.9 | 88.6  | 71.2  |
| 37°   | 1414.1 | 1207.4 | 1031.4 | 807.0  | 623.7  | 428.4  | 273.4 | 154.1 | 100.7 | 77.3  | 63.1  |
| 38°   | 1315.0 | 1131.8 | 936.0  | 694.5  | 507.2  | 321.2  | 180.0 | 113.7 | 87.4  | 68.0  | 55.8  |
| 39°   | 1222.4 | 1055.7 | 824.3  | 574.0  | 390.7  | 226.5  | 130.6 | 97.5  | 76.0  | 60.3  | 49.3  |
| 40°   | 1133.0 | 946.9  | 702.6  | 468.0  | 284.8  | 158.2  | 110.0 | 86.2  | 67.1  | 53.0  | 41.7  |
| 42.5° | 849.8  | 608.3  | 389.1  | 213.2  | 133.9  | 103.1  | 78.5  | 60.7  | 44.5  | 32.8  | 25.1  |
| 45°   | 533.5  | 309.4  | 167.1  | 119.7  | 93.4   | 70.0   | 51.0  | 36.4  | 26.7  | 19.8  | 15.8  |
| 47.5° | 242.7  | 133.1  | 103.5  | 80.1   | 60.3   | 41.7   | 29.9  | 21.8  | 16.2  | 12.5  | 9.3   |
| 50°   | 89.0   | 75.6   | 61.5   | 45.7   | 33.2   | 23.9   | 17.4  | 12.9  | 9.7   | 7.3   | 5.3   |
| 51°   | 69.6   | 60.7   | 48.9   | 34.4   | 26.3   | 19.4   | 14.2  | 10.5  | 7.7   | 5.7   | 4.0   |
| 52°   | 54.6   | 48.1   | 37.6   | 26.7   | 20.6   | 15.4   | 11.3  | 8.1   | 5.7   | 4.4   | 3.2   |
| 53°   | 42.1   | 36.8   | 28.3   | 20.6   | 16.2   | 12.1   | 8.9   | 6.5   | 4.4   | 3.2   | 2.4   |
| 54°   | 31.1   | 27.1   | 21.0   | 15.8   | 12.5   | 9.3    | 6.5   | 4.9   | 3.2   | 2.4   | 2.0   |
| 55°   | 22.2   | 19.8   | 15.8   | 12.5   | 9.7    | 7.3    | 4.9   | 3.6   | 2.4   | 1.6   | 1.6   |
| 57.5° | 9.3    | 8.9    | 7.3    | 6.1    | 4.9    | 3.6    | 2.4   | 1.6   | 1.6   | 1.2   | 1.6   |
| 60°   | 3.6    | 3.6    | 3.2    | 2.4    | 2.0    | 1.6    | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   |



TEST NUMBER: P208845

CATALOG NUMBER: LDSQA6A10830D010TE LARL20NF 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° | 47.5° | 50° | 52.5° |
|-------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| 63°   | 0.8   | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 | 1.6   |
| 64°   | 0.8   | 0.8 | 0.8   | 0.8 | 1.2   | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 | 1.6   |
| 65°   | 0.8   | 0.8 | 0.8   | 0.8 | 0.8   | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 | 1.6   |
| 66°   | 0.8   | 0.8 | 0.8   | 0.8 | 0.8   | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 | 1.6   |
| 67.5° | 0.8   | 0.8 | 0.8   | 0.8 | 0.8   | 1.2 | 1.2   | 1.2 | 1.2   | 1.6 | 1.6   |
| 70°   | 0.8   | 0.8 | 0.8   | 0.8 | 0.8   | 1.2 | 1.2   | 1.2 | 1.2   | 1.6 | 1.6   |
| 72.5° | 0.8   | 0.8 | 0.8   | 0.8 | 0.8   | 1.2 | 1.2   | 1.2 | 1.6   | 1.6 | 1.6   |
| 75°   | 0.4   | 0.8 | 0.8   | 0.8 | 0.8   | 1.2 | 1.2   | 1.2 | 1.6   | 1.6 | 1.6   |
| 77.5° | 0.4   | 0.8 | 0.8   | 0.8 | 1.2   | 1.2 | 1.2   | 1.2 | 1.6   | 1.6 | 1.6   |
| 80°   | 0.4   | 0.8 | 0.8   | 0.8 | 0.8   | 1.2 | 1.2   | 1.2 | 1.6   | 1.6 | 1.6   |
| 82.5° | 0.4   | 0.8 | 0.8   | 0.8 | 0.8   | 1.2 | 1.2   | 1.2 | 1.6   | 1.6 | 1.6   |
| 85°   | 0.4   | 0.8 | 0.8   | 0.8 | 0.8   | 1.2 | 1.2   | 1.2 | 1.6   | 1.6 | 1.6   |
| 87.5° | 0.4   | 0.8 | 0.8   | 0.8 | 0.8   | 1.2 | 1.2   | 1.2 | 1.6   | 1.6 | 1.6   |
| 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: P208845

CATALOG NUMBER: LDSQA6A10830D010TE LARL20NF 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 55°   | 57.5° | 60°   | 62.5° | 65°   | 67.5° | 70°  | 72.5° | 75°  | 77.5° | 80°  |
|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|------|
| 0°    | 71.2  | 71.2  | 71.2  | 71.2  | 71.2  | 71.2  | 71.2 | 71.2  | 71.2 | 71.2  | 71.2 |
| 2.5°  | 82.9  | 82.9  | 80.1  | 79.3  | 78.9  | 78.1  | 76.0 | 76.0  | 74.8 | 73.2  | 72.4 |
| 5°    | 98.3  | 97.5  | 93.0  | 90.6  | 88.6  | 86.2  | 82.1 | 80.5  | 78.1 | 75.6  | 73.6 |
| 7.5°  | 113.3 | 110.4 | 103.5 | 99.9  | 97.1  | 93.0  | 87.8 | 84.1  | 80.1 | 76.0  | 73.2 |
| 10°   | 128.2 | 122.6 | 112.9 | 106.8 | 101.5 | 95.9  | 89.4 | 85.3  | 80.1 | 74.8  | 70.8 |
| 11°   | 134.3 | 127.0 | 116.1 | 108.4 | 102.3 | 95.9  | 89.4 | 84.1  | 79.3 | 74.0  | 69.6 |
| 12°   | 146.0 | 132.3 | 119.3 | 110.8 | 103.1 | 95.9  | 88.6 | 82.9  | 77.7 | 72.4  | 68.0 |
| 13°   | 169.9 | 144.4 | 123.0 | 112.9 | 104.4 | 95.9  | 87.8 | 81.7  | 76.0 | 70.8  | 65.9 |
| 14°   | 213.2 | 169.5 | 132.7 | 114.9 | 104.8 | 95.9  | 87.0 | 79.7  | 74.0 | 68.4  | 63.9 |
| 15°   | 262.1 | 207.9 | 152.5 | 122.2 | 105.2 | 95.1  | 85.3 | 77.7  | 71.6 | 65.9  | 61.5 |
| 17.5° | 363.6 | 290.8 | 216.0 | 158.6 | 115.3 | 92.6  | 79.3 | 71.6  | 64.7 | 59.1  | 53.8 |
| 20°   | 404.9 | 320.4 | 236.2 | 169.9 | 119.3 | 88.6  | 72.4 | 64.3  | 57.0 | 51.4  | 46.9 |
| 21°   | 399.6 | 314.7 | 230.2 | 162.2 | 111.6 | 82.9  | 68.8 | 61.1  | 54.2 | 48.1  | 44.1 |
| 22°   | 388.7 | 301.3 | 216.0 | 148.0 | 102.3 | 77.3  | 65.5 | 57.4  | 51.0 | 45.3  | 41.3 |
| 23°   | 374.2 | 282.3 | 199.8 | 133.1 | 92.6  | 72.0  | 62.3 | 54.2  | 48.1 | 42.5  | 38.8 |
| 24°   | 355.9 | 263.3 | 181.2 | 118.1 | 83.3  | 68.0  | 58.7 | 51.0  | 44.9 | 40.0  | 36.4 |
| 25°   | 335.7 | 243.5 | 161.4 | 105.6 | 77.7  | 63.9  | 54.6 | 47.3  | 42.1 | 37.6  | 34.0 |
| 26°   | 311.1 | 220.0 | 142.8 | 93.8  | 70.8  | 59.5  | 50.6 | 44.1  | 39.2 | 35.2  | 31.5 |
| 27°   | 282.7 | 195.8 | 122.2 | 81.7  | 65.1  | 55.0  | 46.9 | 41.3  | 36.8 | 32.8  | 29.1 |
| 28°   | 257.3 | 168.7 | 104.8 | 72.8  | 60.7  | 50.6  | 43.7 | 38.4  | 34.4 | 30.3  | 27.1 |
| 29°   | 225.3 | 142.8 | 89.4  | 65.9  | 55.8  | 47.3  | 40.4 | 35.6  | 31.5 | 27.5  | 24.7 |
| 30°   | 193.3 | 118.1 | 76.4  | 60.3  | 51.0  | 43.3  | 37.2 | 32.8  | 28.7 | 25.5  | 23.1 |
| 31°   | 160.2 | 97.9  | 67.1  | 55.4  | 46.5  | 40.0  | 34.4 | 30.3  | 26.3 | 23.5  | 21.0 |
| 32°   | 122.6 | 80.1  | 59.9  | 50.2  | 42.5  | 36.0  | 31.5 | 27.5  | 23.9 | 21.4  | 19.0 |
| 33°   | 92.2  | 67.5  | 54.2  | 45.3  | 38.4  | 33.2  | 28.7 | 24.7  | 21.8 | 19.4  | 17.4 |
| 34°   | 73.6  | 60.3  | 48.9  | 40.9  | 34.8  | 29.9  | 25.5 | 22.2  | 19.4 | 17.4  | 15.4 |
| 35°   | 64.7  | 54.2  | 43.7  | 36.8  | 31.1  | 26.3  | 22.7 | 19.8  | 17.4 | 15.4  | 13.8 |
| 36°   | 57.4  | 48.5  | 38.8  | 32.8  | 27.1  | 23.1  | 19.8 | 17.4  | 15.0 | 13.3  | 12.1 |
| 37°   | 51.4  | 42.9  | 34.4  | 28.3  | 23.5  | 20.2  | 17.4 | 15.0  | 12.9 | 11.7  | 10.9 |
| 38°   | 46.1  | 36.8  | 29.1  | 24.3  | 20.2  | 17.4  | 15.0 | 12.9  | 11.3 | 10.1  | 9.3  |
| 39°   | 39.2  | 31.1  | 24.3  | 20.6  | 17.0  | 14.6  | 12.5 | 11.3  | 9.7  | 8.9   | 8.1  |
| 40°   | 32.8  | 25.9  | 20.2  | 17.0  | 14.6  | 12.1  | 10.9 | 9.3   | 8.5  | 7.7   | 6.9  |
| 42.5° | 20.2  | 16.2  | 12.9  | 10.9  | 9.3   | 8.1   | 7.3  | 6.5   | 5.7  | 5.3   | 4.9  |
| 45°   | 12.5  | 10.1  | 8.1   | 6.9   | 5.7   | 5.3   | 4.9  | 4.0   | 4.0  | 3.6   | 3.6  |
| 47.5° | 7.3   | 6.1   | 4.4   | 4.0   | 3.2   | 3.2   | 2.8  | 2.8   | 2.4  | 2.8   | 2.4  |
| 50°   | 4.0   | 2.8   | 2.4   | 2.0   | 2.0   | 2.0   | 2.0  | 2.0   | 2.0  | 2.0   | 2.0  |
| 51°   | 3.2   | 2.4   | 2.0   | 1.6   | 1.6   | 1.6   | 1.6  | 1.6   | 1.6  | 2.0   | 2.0  |
| 52°   | 2.4   | 2.0   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6  | 1.6   | 1.6  | 1.6   | 1.6  |
| 53°   | 2.0   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6  | 1.6   | 1.6  | 1.6   | 1.6  |
| 54°   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6  | 1.6   | 1.6  | 1.6   | 1.6  |
| 55°   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.2   | 1.6  | 1.6   | 1.6  | 1.6   | 1.6  |
| 57.5° | 1.6   | 1.6   | 1.2   | 1.2   | 1.6   | 1.2   | 1.6  | 1.6   | 1.6  | 1.6   | 1.6  |
| 60°   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6  | 1.6   | 1.6  | 1.6   | 1.6  |



TEST NUMBER: P208845

CATALOG NUMBER: LDSQA6A10830D010TE LARL20NF 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° | 77.5° | 80° |
|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| 63°   | 1.6 | 1.6   | 1.6 | 1.6   | 1.6 | 1.6   | 1.6 | 1.6   | 1.6 | 1.6   | 1.6 |
| 64°   | 1.6 | 1.6   | 1.6 | 1.6   | 1.6 | 1.6   | 1.6 | 1.6   | 1.6 | 1.6   | 1.6 |
| 65°   | 1.6 | 1.6   | 1.6 | 1.6   | 1.6 | 1.6   | 1.6 | 1.6   | 1.6 | 1.6   | 1.6 |
| 66°   | 1.6 | 1.6   | 1.6 | 1.6   | 1.6 | 1.6   | 1.6 | 1.6   | 1.6 | 1.6   | 1.6 |
| 67.5° | 1.6 | 1.6   | 1.6 | 1.6   | 1.6 | 1.6   | 1.6 | 1.6   | 1.6 | 1.6   | 1.6 |
| 70°   | 1.6 | 1.6   | 1.6 | 2.0   | 2.0 | 2.0   | 2.0 | 1.6   | 1.6 | 1.6   | 1.6 |
| 72.5° | 1.6 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 1.6 |
| 75°   | 1.6 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 |
| 77.5° | 1.6 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 |
| 80°   | 1.6 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 |
| 82.5° | 1.6 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 |
| 85°   | 1.6 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 |
| 87.5° | 1.6 | 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: P208845

CATALOG NUMBER: LDSQA6A10830D010TE LARL20NF 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 82.5° | 85°  | 87.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|-------|------|--------|------|--------|------|
| 0°    | 71.2  | 71.2 | 71.2  | 71.2 | 71.2   | 71.2 | 71.2   | 71.2 |
| 2.5°  | 72.0  | 72.0 | 71.6  | 70.8 | 64.7   | 59.5 | 56.2   | 55.8 |
| 5°    | 72.4  | 71.6 | 70.0  | 68.8 | 57.8   | 51.0 | 46.9   | 46.5 |
| 7.5°  | 70.8  | 69.2 | 67.1  | 64.7 | 51.4   | 44.1 | 40.4   | 39.6 |
| 10°   | 68.0  | 65.1 | 62.7  | 59.5 | 45.3   | 38.4 | 35.2   | 34.4 |
| 11°   | 65.9  | 63.1 | 60.7  | 57.4 | 42.9   | 36.4 | 33.2   | 32.8 |
| 12°   | 64.3  | 61.1 | 57.8  | 55.0 | 40.4   | 34.4 | 31.5   | 31.1 |
| 13°   | 61.9  | 58.7 | 55.8  | 52.6 | 38.4   | 32.8 | 29.9   | 29.5 |
| 14°   | 59.9  | 56.2 | 53.4  | 50.6 | 36.4   | 30.7 | 28.7   | 28.3 |
| 15°   | 57.4  | 53.8 | 50.6  | 47.7 | 34.4   | 29.1 | 27.5   | 27.1 |
| 17.5° | 51.0  | 46.9 | 44.1  | 41.3 | 29.5   | 25.5 | 24.3   | 24.7 |
| 20°   | 43.3  | 40.0 | 37.6  | 35.2 | 25.1   | 22.2 | 21.8   | 22.2 |
| 21°   | 40.4  | 37.6 | 35.6  | 33.2 | 23.5   | 21.0 | 21.0   | 21.4 |
| 22°   | 38.0  | 35.2 | 33.2  | 30.7 | 22.2   | 19.8 | 19.8   | 20.6 |
| 23°   | 35.6  | 32.8 | 30.7  | 28.7 | 20.6   | 19.0 | 19.0   | 19.8 |
| 24°   | 33.2  | 30.7 | 28.7  | 26.7 | 19.4   | 17.8 | 18.2   | 19.0 |
| 25°   | 30.7  | 28.7 | 26.7  | 25.1 | 18.2   | 17.0 | 17.4   | 18.2 |
| 26°   | 29.1  | 26.7 | 25.1  | 23.1 | 17.0   | 16.2 | 16.6   | 17.8 |
| 27°   | 26.7  | 24.7 | 23.1  | 21.4 | 16.2   | 15.4 | 16.2   | 17.0 |
| 28°   | 25.1  | 23.1 | 21.4  | 19.8 | 15.0   | 14.6 | 15.4   | 16.6 |
| 29°   | 23.1  | 21.4 | 19.8  | 18.6 | 14.2   | 13.8 | 15.0   | 15.8 |
| 30°   | 21.0  | 19.4 | 18.2  | 17.0 | 13.3   | 12.9 | 14.2   | 15.4 |
| 31°   | 19.4  | 18.2 | 17.0  | 15.8 | 12.5   | 12.5 | 13.8   | 15.0 |
| 32°   | 17.8  | 16.6 | 15.4  | 14.2 | 11.7   | 11.7 | 13.3   | 14.2 |
| 33°   | 16.2  | 15.0 | 13.8  | 12.9 | 10.9   | 11.3 | 12.5   | 13.8 |
| 34°   | 14.2  | 13.3 | 12.5  | 11.7 | 10.1   | 10.5 | 12.1   | 13.3 |
| 35°   | 12.9  | 12.1 | 11.3  | 10.5 | 9.7    | 10.1 | 11.7   | 12.9 |
| 36°   | 11.3  | 10.9 | 10.1  | 9.7  | 8.9    | 9.7  | 11.3   | 12.5 |
| 37°   | 10.1  | 9.7  | 8.9   | 8.5  | 8.5    | 9.3  | 10.9   | 12.1 |
| 38°   | 8.9   | 8.5  | 8.1   | 7.7  | 8.1    | 8.9  | 10.5   | 11.7 |
| 39°   | 7.7   | 7.3  | 7.3   | 6.9  | 7.7    | 8.5  | 10.1   | 11.3 |
| 40°   | 6.9   | 6.5  | 6.5   | 6.1  | 7.3    | 8.1  | 9.7    | 11.3 |
| 42.5° | 4.9   | 4.9  | 4.9   | 4.9  | 6.1    | 7.3  | 8.9    | 10.5 |
| 45°   | 3.6   | 3.6  | 3.6   | 3.6  | 5.3    | 6.5  | 7.7    | 9.7  |
| 47.5° | 2.8   | 2.8  | 2.8   | 2.8  | 4.9    | 6.1  | 7.3    | 8.5  |
| 50°   | 2.0   | 2.0  | 2.4   | 2.4  | 4.4    | 5.3  | 6.5    | 7.7  |
| 51°   | 2.0   | 2.0  | 2.0   | 2.4  | 4.0    | 5.3  | 6.1    | 7.3  |
| 52°   | 2.0   | 2.0  | 2.0   | 2.0  | 4.0    | 4.9  | 5.7    | 6.5  |
| 53°   | 1.6   | 2.0  | 2.0   | 2.0  | 3.6    | 4.9  | 5.3    | 6.1  |
| 54°   | 1.6   | 1.6  | 1.6   | 2.0  | 3.6    | 4.4  | 4.9    | 5.7  |
| 55°   | 1.6   | 1.6  | 1.6   | 2.0  | 3.2    | 4.4  | 4.9    | 4.9  |
| 57.5° | 1.6   | 1.6  | 1.6   | 1.6  | 3.2    | 4.0  | 4.4    | 4.0  |
| 60°   | 1.6   | 1.6  | 1.6   | 1.6  | 2.8    | 3.6  | 4.0    | 2.8  |



TEST NUMBER: P208845

CATALOG NUMBER: LDSQA6A10830D010TE LARL20NF 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 82.5° | 85° | 87.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|-------|-----|--------|------|--------|------|
| 63°   | 1.6   | 1.6 | 1.6   | 1.6 | 2.8    | 3.2  | 3.2    | 2.4  |
| 64°   | 1.6   | 1.6 | 1.6   | 1.6 | 2.8    | 3.2  | 3.2    | 2.4  |
| 65°   | 1.6   | 1.6 | 1.6   | 1.6 | 2.8    | 2.8  | 2.8    | 2.0  |
| 66°   | 1.6   | 1.6 | 1.6   | 1.6 | 2.8    | 2.8  | 2.8    | 2.0  |
| 67.5° | 1.6   | 1.6 | 1.6   | 1.6 | 2.8    | 2.8  | 2.4    | 2.0  |
| 70°   | 1.6   | 1.6 | 1.6   | 2.0 | 2.4    | 2.4  | 2.4    | 2.0  |
| 72.5° | 1.6   | 1.6 | 1.6   | 2.0 | 2.4    | 2.4  | 2.0    | 1.6  |
| 75°   | 2.0   | 2.0 | 2.0   | 2.0 | 2.4    | 2.4  | 2.0    | 1.2  |
| 77.5° | 2.0   | 2.0 | 2.0   | 2.0 | 2.4    | 2.0  | 1.6    | 1.2  |
| 80°   | 2.0   | 2.0 | 1.6   | 1.6 | 2.0    | 2.0  | 1.2    | 0.8  |
| 82.5° | 2.0   | 2.0 | 1.6   | 1.6 | 2.0    | 1.6  | 1.2    | 0.8  |
| 85°   | 2.0   | 2.0 | 1.6   | 1.6 | 2.0    | 1.6  | 0.8    | 0.4  |
| 87.5° | 2.0   | 1.6 | 1.6   | 1.6 | 2.0    | 1.6  | 0.4    | 0.4  |
| 90°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |



Report Generated By E9808895 / USPTCWHP6082093





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







|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 61° | 1.2 | 1.2 | 1.2 | 1.2 | 1.6 | 1.2 | 1.6 | 2.0 | 2.4 | 2.4 | 2.4 |
| 62° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.2 | 1.2 | 1.2 | 1.6 |





|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 61° | 2.4 | 2.4 | 2.0 | 2.0 | 1.6 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 62° | 1.6 | 1.6 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.6 |





|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 61° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 62° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |





|     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 61° | 1.6 | 1.6 | 1.6 | 1.6 | 2.8 | 3.6 | 3.6 | 2.8 |
| 62° | 1.6 | 1.6 | 1.6 | 1.6 | 2.8 | 3.2 | 3.6 | 2.4 |



(END OF REPORT)