

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P880599

Luminaire Tested: **LD4C65D010 EU4659035 4LBDWNH**

Issue Date: 10/4/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P880599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251940)
Test Lab: INNOVATION CENTER
Issue Date: 10/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C65D010 EU4659035 4LBDWNH
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBDWN TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

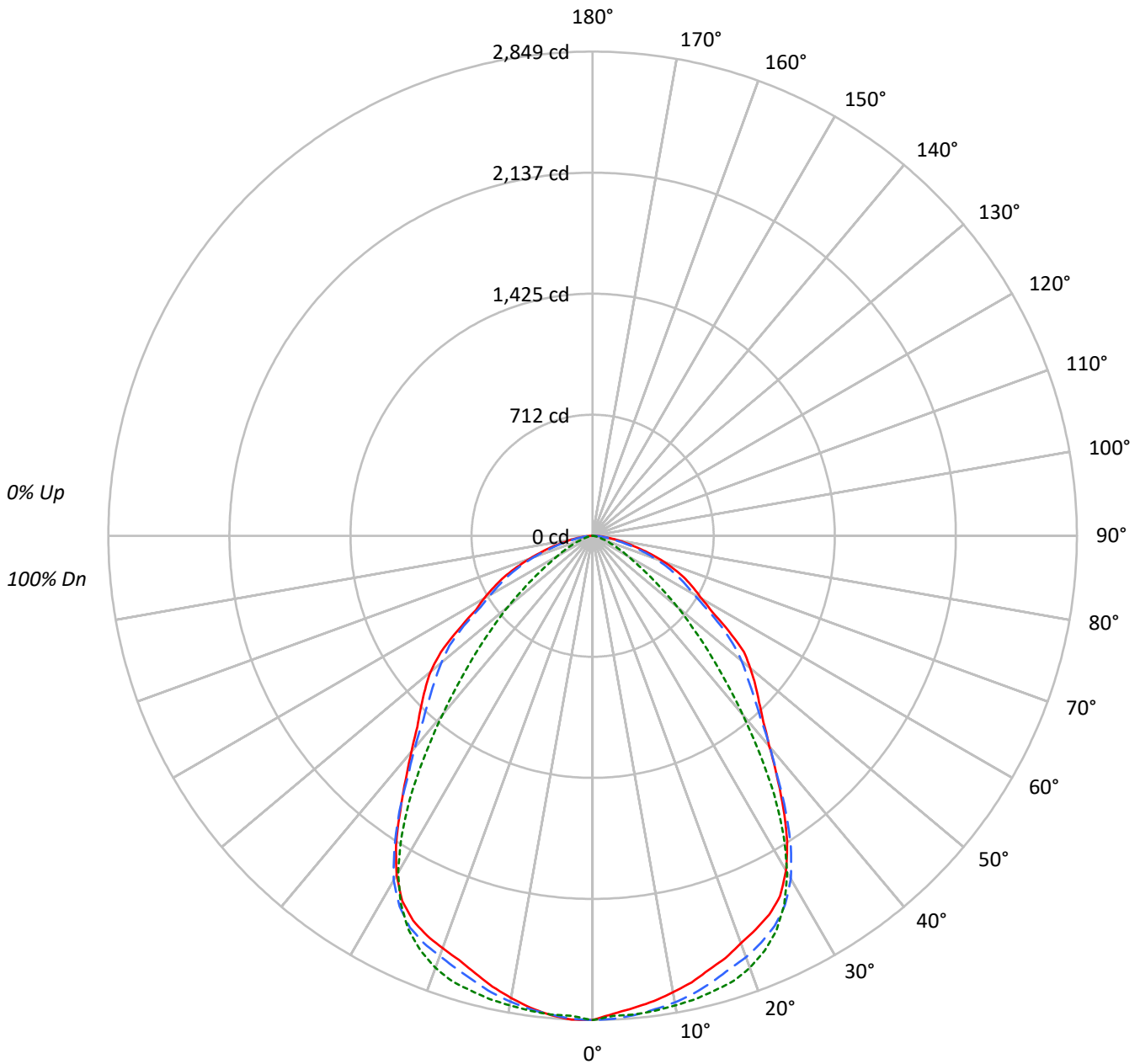
Lumens per Lamp: N/A
Luminaire Lumens: 5799.0 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72.4
Input Voltage (V): NR
Input Current (A_{in}): 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: P880599

CATALOG NUMBER: LD4C65D010 EU4659035 4LBDWNH

Luminous Intensity Polar Plot





TEST NUMBER: P880599

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | | | 0 | |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | 100 |
| 1 | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 98 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 88 | | | 88 |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 78 | 76 | | | 76 |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 70 | 78 | 73 | 69 | 76 | 72 | 68 | 66 | | | 66 |
| 4 | 87 | 77 | 69 | 63 | 85 | 75 | 68 | 62 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | | 58 |
| 5 | 81 | 69 | 61 | 55 | 79 | 68 | 61 | 55 | 66 | 60 | 54 | 64 | 58 | 54 | 63 | 57 | 53 | 51 | | | 51 |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 55 | 49 | 60 | 54 | 49 | 59 | 53 | 48 | 57 | 52 | 48 | 46 | | | 46 |
| 7 | 70 | 58 | 50 | 44 | 68 | 57 | 49 | 44 | 56 | 49 | 44 | 54 | 48 | 43 | 53 | 47 | 43 | 41 | | | 41 |
| 8 | 66 | 53 | 45 | 40 | 64 | 52 | 45 | 40 | 51 | 44 | 40 | 50 | 44 | 39 | 49 | 43 | 39 | 37 | | | 37 |
| 9 | 62 | 49 | 41 | 36 | 60 | 49 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 45 | 40 | 36 | 34 | | | 34 |
| 10 | 58 | 46 | 38 | 33 | 57 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 42 | 37 | 33 | 31 | | | 31 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 350059 | 350059 | 350059 |
| 5° | 343849 | 348695 | 349225 |
| 10° | 340152 | 350007 | 344518 |
| 15° | 336207 | 352360 | 338980 |
| 20° | 333539 | 353633 | 337552 |
| 25° | 333354 | 347031 | 338695 |
| 30° | 322743 | 324616 | 327098 |
| 35° | 293219 | 279436 | 295843 |
| 40° | 259421 | 220033 | 265723 |
| 45° | 240666 | 167538 | 248293 |
| 50° | 231243 | 124022 | 237952 |
| 55° | 209391 | 85461 | 206542 |
| 60° | 182020 | 58159 | 180963 |
| 65° | 175871 | 42093 | 166918 |
| 70° | 159018 | 28377 | 141668 |
| 75° | 131056 | 18702 | 112354 |
| 80° | 105486 | 12381 | 83766 |
| 85° | 86690 | 6061 | 55538 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 269.0 | 4.6 |
| 10°-20° | 769.1 | 13.3 |
| 20°-30° | 1161.9 | 20.0 |
| 30°-40° | 1216.0 | 21.0 |
| 40°-50° | 984.8 | 17.0 |
| 50°-60° | 716.3 | 12.4 |
| 60°-70° | 441.8 | 7.6 |
| 70°-80° | 199.6 | 3.4 |
| 80°-90° | 40.6 | 0.7 |
| 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° | 2199.9 | 37.9 |
| 0°-40° | 3415.9 | 58.9 |
| 0°-60° | 5117.0 | 88.2 |
| 0°-90° | 5799.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5799.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2849 | 2849 | 2849 | 2849 | 2849 | |
| 5° | 2788 | 2832 | 2828 | 2828 | 2832 | 264 |
| 15° | 2643 | 2718 | 2770 | 2709 | 2665 | 747 |
| 25° | 2459 | 2534 | 2560 | 2543 | 2499 | 1127 |
| 35° | 1955 | 1982 | 1863 | 1982 | 1973 | 1219 |
| 45° | 1385 | 1342 | 964 | 1359 | 1429 | 1077 |
| 55° | 978 | 916 | 399 | 925 | 964 | 872 |
| 65° | 605 | 544 | 145 | 535 | 574 | 592 |
| 75° | 276 | 237 | 39 | 206 | 237 | 300 |
| 85° | 62 | 48 | 4 | 35 | 39 | 70 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2849.4 | 2849.4 | 2849.4 | 2849.4 | 2849.4 | 2849.4 | 2849.4 | 2849.4 | 2849.4 | 2849.4 | 2849.4 |
| 2.5° | 2814.3 | 2814.3 | 2840.7 | 2871.2 | 2845.0 | 2818.6 | 2836.1 | 2827.5 | 2858.3 | 2858.3 | 2845.0 |
| 5° | 2788.2 | 2796.8 | 2818.6 | 2845.0 | 2823.2 | 2796.8 | 2818.6 | 2810.0 | 2840.7 | 2840.7 | 2831.8 |
| 7.5° | 2761.7 | 2766.0 | 2792.5 | 2823.2 | 2801.1 | 2774.9 | 2792.5 | 2788.2 | 2814.3 | 2818.6 | 2810.0 |
| 10° | 2726.7 | 2731.0 | 2757.4 | 2788.2 | 2766.0 | 2744.2 | 2761.7 | 2757.4 | 2792.5 | 2792.5 | 2788.2 |
| 12.5° | 2691.6 | 2696.0 | 2722.4 | 2748.5 | 2726.7 | 2704.9 | 2722.4 | 2722.4 | 2757.4 | 2761.7 | 2757.4 |
| 15° | 2643.4 | 2652.0 | 2674.1 | 2700.3 | 2687.3 | 2660.9 | 2678.4 | 2678.4 | 2709.2 | 2717.8 | 2717.8 |
| 17.5° | 2604.0 | 2608.3 | 2630.2 | 2656.6 | 2639.1 | 2617.0 | 2634.5 | 2634.5 | 2665.2 | 2674.1 | 2674.1 |
| 20° | 2551.2 | 2560.1 | 2581.9 | 2608.3 | 2595.1 | 2577.6 | 2590.8 | 2590.8 | 2625.9 | 2634.5 | 2639.1 |
| 22.5° | 2507.5 | 2516.1 | 2533.7 | 2569.0 | 2546.9 | 2533.7 | 2551.2 | 2546.9 | 2586.5 | 2590.8 | 2590.8 |
| 25° | 2459.2 | 2468.1 | 2490.0 | 2511.8 | 2498.6 | 2485.7 | 2498.6 | 2498.6 | 2529.3 | 2533.7 | 2533.7 |
| 27.5° | 2389.2 | 2393.5 | 2415.3 | 2437.4 | 2424.2 | 2406.7 | 2424.2 | 2419.9 | 2450.4 | 2454.9 | 2450.4 |
| 30° | 2275.1 | 2284.0 | 2292.6 | 2323.4 | 2310.2 | 2297.0 | 2314.5 | 2305.8 | 2336.6 | 2336.6 | 2332.0 |
| 32.5° | 2130.3 | 2130.3 | 2148.1 | 2170.0 | 2152.5 | 2143.6 | 2156.8 | 2161.1 | 2183.2 | 2183.2 | 2170.0 |
| 35° | 1955.1 | 1964.0 | 1976.9 | 1990.2 | 1976.9 | 1968.3 | 1981.5 | 1976.9 | 2003.4 | 1994.5 | 1981.5 |
| 37.5° | 1779.9 | 1784.2 | 1797.4 | 1814.9 | 1797.4 | 1784.2 | 1788.5 | 1784.2 | 1806.0 | 1806.0 | 1784.2 |
| 40° | 1617.6 | 1626.5 | 1635.1 | 1652.6 | 1635.1 | 1626.5 | 1630.8 | 1617.6 | 1644.0 | 1635.1 | 1621.9 |
| 42.5° | 1486.0 | 1490.3 | 1503.5 | 1512.4 | 1494.9 | 1490.3 | 1494.9 | 1486.0 | 1499.2 | 1490.3 | 1464.2 |
| 45° | 1385.2 | 1385.2 | 1389.8 | 1402.7 | 1385.2 | 1380.9 | 1380.9 | 1372.0 | 1385.2 | 1367.7 | 1341.5 |
| 47.5° | 1297.6 | 1301.9 | 1306.5 | 1315.1 | 1301.9 | 1288.9 | 1293.2 | 1275.7 | 1284.4 | 1271.1 | 1236.1 |
| 50° | 1209.9 | 1218.6 | 1223.2 | 1231.8 | 1218.6 | 1209.9 | 1214.3 | 1196.7 | 1196.7 | 1174.9 | 1144.2 |
| 52.5° | 1122.3 | 1126.6 | 1122.3 | 1131.0 | 1122.3 | 1109.1 | 1113.4 | 1095.9 | 1095.9 | 1069.8 | 1039.0 |
| 55° | 977.6 | 981.9 | 986.4 | 995.1 | 986.4 | 973.2 | 981.9 | 968.9 | 968.9 | 951.1 | 916.1 |
| 57.5° | 832.8 | 837.4 | 841.7 | 846.0 | 846.0 | 837.4 | 841.7 | 832.8 | 828.5 | 815.3 | 789.1 |
| 60° | 740.8 | 740.8 | 740.8 | 745.2 | 740.8 | 736.5 | 736.5 | 727.6 | 727.6 | 710.1 | 684.0 |
| 62.5° | 670.8 | 675.1 | 675.1 | 679.4 | 675.1 | 670.8 | 666.4 | 657.5 | 653.2 | 635.7 | 613.6 |
| 65° | 605.0 | 605.0 | 600.7 | 609.3 | 605.0 | 600.7 | 600.7 | 591.8 | 583.1 | 565.6 | 543.5 |
| 67.5° | 526.0 | 530.3 | 526.0 | 530.3 | 530.3 | 526.0 | 521.7 | 512.8 | 508.5 | 495.2 | 469.1 |
| 70° | 442.7 | 442.7 | 442.7 | 447.3 | 442.7 | 442.7 | 447.3 | 434.0 | 429.7 | 411.9 | 390.1 |
| 72.5° | 359.4 | 364.0 | 364.0 | 359.4 | 364.0 | 355.1 | 355.1 | 355.1 | 350.7 | 333.2 | 311.1 |
| 75° | 276.1 | 280.6 | 280.6 | 285.0 | 280.6 | 276.1 | 276.1 | 271.8 | 267.4 | 254.2 | 236.7 |
| 77.5° | 206.0 | 206.0 | 210.3 | 210.3 | 210.3 | 206.0 | 206.0 | 197.3 | 197.3 | 188.4 | 170.9 |
| 80° | 149.1 | 149.1 | 144.8 | 149.1 | 149.1 | 144.8 | 144.8 | 140.2 | 140.2 | 131.6 | 118.4 |
| 82.5° | 96.5 | 100.8 | 100.8 | 100.8 | 100.8 | 96.5 | 96.5 | 96.5 | 91.9 | 87.6 | 79.0 |
| 85° | 61.5 | 61.5 | 61.5 | 61.5 | 65.8 | 61.5 | 65.8 | 61.5 | 61.5 | 52.6 | 48.3 |
| 87.5° | 26.4 | 26.4 | 26.4 | 30.7 | 30.7 | 26.4 | 26.4 | 26.4 | 26.4 | 26.4 | 21.8 |
| 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: P880599

CATALOG NUMBER: LD4C65D010 EU4659035 4LBDWNH

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2849.4 | 2849.4 | 2849.4 | 2849.4 | 2849.4 | 2849.4 | 2849.4 | 2849.4 | 2849.4 | 2849.4 | 2849.4 |
| 2.5° | 2845.0 | 2849.4 | 2836.1 | 2853.7 | 2840.7 | 2845.0 | 2849.4 | 2845.0 | 2827.5 | 2827.5 | 2875.8 |
| 5° | 2827.5 | 2836.1 | 2823.2 | 2845.0 | 2836.1 | 2836.1 | 2845.0 | 2840.7 | 2823.2 | 2827.5 | 2871.2 |
| 7.5° | 2810.0 | 2823.2 | 2814.3 | 2836.1 | 2823.2 | 2823.2 | 2831.8 | 2831.8 | 2814.3 | 2818.6 | 2858.3 |
| 10° | 2783.6 | 2801.1 | 2796.8 | 2818.6 | 2805.7 | 2805.7 | 2818.6 | 2818.6 | 2801.1 | 2805.7 | 2845.0 |
| 12.5° | 2761.7 | 2779.3 | 2774.9 | 2796.8 | 2788.2 | 2792.5 | 2796.8 | 2805.7 | 2783.6 | 2792.5 | 2827.5 |
| 15° | 2726.7 | 2744.2 | 2744.2 | 2766.0 | 2757.4 | 2766.0 | 2774.9 | 2788.2 | 2770.4 | 2770.4 | 2805.7 |
| 17.5° | 2687.3 | 2709.2 | 2709.2 | 2726.7 | 2726.7 | 2731.0 | 2748.5 | 2761.7 | 2744.2 | 2748.5 | 2779.3 |
| 20° | 2643.4 | 2669.8 | 2669.8 | 2691.6 | 2687.3 | 2696.0 | 2709.2 | 2722.4 | 2704.9 | 2704.9 | 2739.9 |
| 22.5° | 2599.4 | 2621.5 | 2625.9 | 2639.1 | 2639.1 | 2643.4 | 2656.6 | 2665.2 | 2643.4 | 2643.4 | 2678.4 |
| 25° | 2538.2 | 2560.1 | 2564.4 | 2573.3 | 2564.4 | 2564.4 | 2573.3 | 2581.9 | 2560.1 | 2560.1 | 2590.8 |
| 27.5° | 2454.9 | 2476.8 | 2476.8 | 2472.5 | 2463.6 | 2468.1 | 2463.6 | 2468.1 | 2446.0 | 2441.7 | 2472.5 |
| 30° | 2332.0 | 2345.2 | 2345.2 | 2340.9 | 2327.7 | 2327.7 | 2314.5 | 2319.1 | 2288.3 | 2288.3 | 2314.5 |
| 32.5° | 2165.7 | 2178.6 | 2170.0 | 2161.1 | 2143.6 | 2134.9 | 2126.0 | 2121.7 | 2091.0 | 2091.0 | 2121.7 |
| 35° | 1968.3 | 1976.9 | 1964.0 | 1946.5 | 1924.4 | 1911.2 | 1898.2 | 1880.7 | 1858.6 | 1863.2 | 1880.7 |
| 37.5° | 1766.7 | 1766.7 | 1749.1 | 1714.1 | 1696.6 | 1674.5 | 1652.6 | 1652.6 | 1617.6 | 1613.3 | 1626.5 |
| 40° | 1595.7 | 1578.2 | 1547.5 | 1499.2 | 1468.5 | 1446.6 | 1415.9 | 1398.4 | 1372.0 | 1372.0 | 1394.1 |
| 42.5° | 1442.3 | 1407.3 | 1367.7 | 1301.9 | 1271.1 | 1245.0 | 1205.6 | 1188.1 | 1157.4 | 1152.8 | 1166.0 |
| 45° | 1306.5 | 1271.1 | 1214.3 | 1144.2 | 1104.8 | 1074.1 | 1016.9 | 995.1 | 968.9 | 964.3 | 973.2 |
| 47.5° | 1196.7 | 1157.4 | 1087.3 | 995.1 | 955.7 | 916.1 | 859.2 | 828.5 | 806.6 | 793.4 | 806.6 |
| 50° | 1100.2 | 1047.6 | 973.2 | 876.7 | 824.2 | 789.1 | 719.0 | 688.3 | 657.5 | 648.9 | 653.2 |
| 52.5° | 995.1 | 942.5 | 863.5 | 762.7 | 714.4 | 661.9 | 596.1 | 552.4 | 526.0 | 512.8 | 526.0 |
| 55° | 881.0 | 828.5 | 749.7 | 648.9 | 596.1 | 548.1 | 477.7 | 442.7 | 411.9 | 399.0 | 411.9 |
| 57.5° | 758.4 | 710.1 | 640.0 | 539.2 | 490.9 | 447.3 | 381.5 | 346.4 | 315.7 | 306.8 | 315.7 |
| 60° | 653.2 | 613.6 | 543.5 | 447.3 | 407.6 | 359.4 | 302.5 | 267.4 | 241.0 | 236.7 | 241.0 |
| 62.5° | 583.1 | 539.2 | 473.4 | 381.5 | 341.8 | 302.5 | 249.9 | 214.9 | 192.8 | 188.4 | 192.8 |
| 65° | 512.8 | 464.8 | 403.3 | 324.3 | 285.0 | 254.2 | 201.7 | 170.9 | 149.1 | 144.8 | 149.1 |
| 67.5° | 434.0 | 390.1 | 337.5 | 267.4 | 236.7 | 206.0 | 162.3 | 131.6 | 114.0 | 109.7 | 114.0 |
| 70° | 359.4 | 320.0 | 267.4 | 214.9 | 184.1 | 162.3 | 122.7 | 100.8 | 83.3 | 79.0 | 83.3 |
| 72.5° | 285.0 | 249.9 | 206.0 | 162.3 | 144.8 | 122.7 | 96.5 | 74.4 | 61.5 | 56.9 | 61.5 |
| 75° | 219.2 | 192.8 | 157.7 | 118.4 | 105.1 | 91.9 | 65.8 | 52.6 | 43.9 | 39.4 | 43.9 |
| 77.5° | 153.4 | 135.9 | 109.7 | 87.6 | 74.4 | 65.8 | 48.3 | 35.0 | 30.7 | 26.4 | 30.7 |
| 80° | 105.1 | 91.9 | 74.4 | 56.9 | 48.3 | 39.4 | 30.7 | 21.8 | 17.5 | 17.5 | 17.5 |
| 82.5° | 70.1 | 56.9 | 43.9 | 35.0 | 30.7 | 26.4 | 17.5 | 13.2 | 13.2 | 8.9 | 8.9 |
| 85° | 39.4 | 35.0 | 26.4 | 21.8 | 17.5 | 13.2 | 8.9 | 8.9 | 4.3 | 4.3 | 4.3 |
| 87.5° | 17.5 | 13.2 | 8.9 | 8.9 | 4.3 | 4.3 | 4.3 | 4.3 | 0.0 | 0.0 | 0.0 |
| 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: P880599

CATALOG NUMBER: LD4C65D010 EU4659035 4LBDWNH

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2849.4 | 2849.4 | 2849.4 | 2849.4 | 2849.4 | 2849.4 | 2849.4 | 2849.4 | 2849.4 | 2849.4 | 2849.4 |
| 2.5° | 2862.6 | 2849.4 | 2866.9 | 2849.4 | 2840.7 | 2849.4 | 2840.7 | 2866.9 | 2845.0 | 2827.5 | 2845.0 |
| 5° | 2858.3 | 2840.7 | 2858.3 | 2845.0 | 2831.8 | 2836.1 | 2827.5 | 2853.7 | 2827.5 | 2814.3 | 2823.2 |
| 7.5° | 2849.4 | 2836.1 | 2845.0 | 2831.8 | 2818.6 | 2823.2 | 2814.3 | 2836.1 | 2810.0 | 2796.8 | 2805.7 |
| 10° | 2836.1 | 2823.2 | 2827.5 | 2818.6 | 2805.7 | 2805.7 | 2796.8 | 2814.3 | 2783.6 | 2766.0 | 2774.9 |
| 12.5° | 2818.6 | 2801.1 | 2810.0 | 2796.8 | 2779.3 | 2779.3 | 2770.4 | 2783.6 | 2752.8 | 2735.3 | 2739.9 |
| 15° | 2796.8 | 2779.3 | 2779.3 | 2766.0 | 2748.5 | 2748.5 | 2731.0 | 2744.2 | 2709.2 | 2691.6 | 2691.6 |
| 17.5° | 2770.4 | 2748.5 | 2748.5 | 2735.3 | 2713.5 | 2709.2 | 2696.0 | 2709.2 | 2669.8 | 2652.0 | 2652.0 |
| 20° | 2731.0 | 2713.5 | 2709.2 | 2700.3 | 2678.4 | 2674.1 | 2656.6 | 2660.9 | 2630.2 | 2617.0 | 2612.6 |
| 22.5° | 2678.4 | 2660.9 | 2665.2 | 2652.0 | 2634.5 | 2630.2 | 2612.6 | 2625.9 | 2595.1 | 2581.9 | 2586.5 |
| 25° | 2586.5 | 2577.6 | 2586.5 | 2581.9 | 2569.0 | 2569.0 | 2560.1 | 2569.0 | 2542.6 | 2533.7 | 2538.2 |
| 27.5° | 2481.1 | 2476.8 | 2481.1 | 2481.1 | 2472.5 | 2472.5 | 2472.5 | 2485.7 | 2459.2 | 2454.9 | 2454.9 |
| 30° | 2327.7 | 2327.7 | 2332.0 | 2336.6 | 2336.6 | 2345.2 | 2340.9 | 2358.4 | 2340.9 | 2332.0 | 2340.9 |
| 32.5° | 2126.0 | 2143.6 | 2156.8 | 2156.8 | 2156.8 | 2165.7 | 2174.3 | 2187.5 | 2170.0 | 2174.3 | 2174.3 |
| 35° | 1898.2 | 1911.2 | 1920.1 | 1941.9 | 1929.0 | 1959.4 | 1968.3 | 1985.8 | 1981.5 | 1990.2 | 1985.8 |
| 37.5° | 1644.0 | 1661.5 | 1679.0 | 1709.8 | 1705.2 | 1740.2 | 1757.8 | 1792.8 | 1784.2 | 1801.7 | 1810.3 |
| 40° | 1407.3 | 1433.4 | 1459.9 | 1481.7 | 1499.2 | 1534.3 | 1569.3 | 1613.3 | 1626.5 | 1639.4 | 1644.0 |
| 42.5° | 1179.2 | 1205.6 | 1249.3 | 1280.0 | 1306.5 | 1363.3 | 1411.6 | 1464.2 | 1477.4 | 1503.5 | 1512.4 |
| 45° | 995.1 | 1016.9 | 1069.8 | 1109.1 | 1131.0 | 1214.3 | 1271.1 | 1336.9 | 1359.0 | 1389.8 | 1402.7 |
| 47.5° | 824.2 | 863.5 | 916.1 | 964.3 | 995.1 | 1082.7 | 1157.4 | 1227.5 | 1258.2 | 1293.2 | 1310.8 |
| 50° | 675.1 | 719.0 | 789.1 | 832.8 | 876.7 | 973.2 | 1056.5 | 1131.0 | 1161.7 | 1201.0 | 1218.6 |
| 52.5° | 552.4 | 600.7 | 666.4 | 714.4 | 762.7 | 863.5 | 951.1 | 1021.5 | 1060.9 | 1087.3 | 1113.4 |
| 55° | 434.0 | 486.6 | 552.4 | 605.0 | 644.3 | 754.1 | 828.5 | 898.6 | 925.0 | 946.8 | 960.0 |
| 57.5° | 337.5 | 376.9 | 442.7 | 486.6 | 534.9 | 631.1 | 705.8 | 758.4 | 780.2 | 806.6 | 815.3 |
| 60° | 263.1 | 302.5 | 364.0 | 407.6 | 451.6 | 543.5 | 618.2 | 670.8 | 692.6 | 714.4 | 727.6 |
| 62.5° | 210.3 | 249.9 | 306.8 | 346.4 | 385.8 | 469.1 | 534.9 | 587.4 | 613.6 | 635.7 | 648.9 |
| 65° | 166.6 | 201.7 | 249.9 | 289.3 | 320.0 | 394.4 | 460.2 | 508.5 | 534.9 | 556.7 | 569.9 |
| 67.5° | 131.6 | 162.3 | 206.0 | 232.4 | 263.1 | 324.3 | 381.5 | 425.2 | 447.3 | 473.4 | 486.6 |
| 70° | 100.8 | 122.7 | 162.3 | 184.1 | 206.0 | 258.5 | 302.5 | 346.4 | 368.3 | 385.8 | 394.4 |
| 72.5° | 74.4 | 91.9 | 122.7 | 140.2 | 153.4 | 197.3 | 232.4 | 263.1 | 280.6 | 298.2 | 306.8 |
| 75° | 52.6 | 65.8 | 87.6 | 100.8 | 109.7 | 140.2 | 170.9 | 192.8 | 206.0 | 219.2 | 232.4 |
| 77.5° | 35.0 | 43.9 | 56.9 | 65.8 | 74.4 | 96.5 | 114.0 | 131.6 | 144.8 | 157.7 | 162.3 |
| 80° | 21.8 | 30.7 | 39.4 | 43.9 | 48.3 | 61.5 | 79.0 | 87.6 | 96.5 | 105.1 | 109.7 |
| 82.5° | 13.2 | 17.5 | 21.8 | 26.4 | 30.7 | 39.4 | 48.3 | 56.9 | 61.5 | 70.1 | 74.4 |
| 85° | 4.3 | 8.9 | 8.9 | 13.2 | 13.2 | 21.8 | 26.4 | 30.7 | 35.0 | 39.4 | 43.9 |
| 87.5° | 0.0 | 0.0 | 4.3 | 4.3 | 4.3 | 4.3 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P880599

CATALOG NUMBER: LD4C65D010 EU4659035 4LBDWNH

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2849.4 | 2849.4 | 2849.4 | 2849.4 | 2849.4 | 2849.4 | 2849.4 | 2849.4 |
| 2.5° | 2862.6 | 2849.4 | 2840.7 | 2836.1 | 2866.9 | 2827.5 | 2845.0 | 2849.4 |
| 5° | 2845.0 | 2831.8 | 2823.2 | 2818.6 | 2845.0 | 2810.0 | 2823.2 | 2831.8 |
| 7.5° | 2818.6 | 2810.0 | 2796.8 | 2792.5 | 2818.6 | 2779.3 | 2796.8 | 2801.1 |
| 10° | 2788.2 | 2774.9 | 2766.0 | 2761.7 | 2783.6 | 2744.2 | 2761.7 | 2761.7 |
| 12.5° | 2748.5 | 2739.9 | 2722.4 | 2722.4 | 2739.9 | 2704.9 | 2717.8 | 2717.8 |
| 15° | 2696.0 | 2687.3 | 2669.8 | 2669.8 | 2687.3 | 2652.0 | 2665.2 | 2665.2 |
| 17.5° | 2652.0 | 2643.4 | 2630.2 | 2625.9 | 2643.4 | 2608.3 | 2621.5 | 2617.0 |
| 20° | 2617.0 | 2608.3 | 2590.8 | 2590.8 | 2604.0 | 2569.0 | 2581.9 | 2581.9 |
| 22.5° | 2586.5 | 2581.9 | 2564.4 | 2564.4 | 2581.9 | 2546.9 | 2555.8 | 2546.9 |
| 25° | 2538.2 | 2533.7 | 2516.1 | 2520.7 | 2529.3 | 2494.3 | 2507.5 | 2498.6 |
| 27.5° | 2459.2 | 2459.2 | 2441.7 | 2437.4 | 2450.4 | 2419.9 | 2428.5 | 2424.2 |
| 30° | 2336.6 | 2340.9 | 2319.1 | 2319.1 | 2323.4 | 2297.0 | 2310.2 | 2305.8 |
| 32.5° | 2170.0 | 2174.3 | 2156.8 | 2152.5 | 2165.7 | 2143.6 | 2152.5 | 2152.5 |
| 35° | 1985.8 | 1990.2 | 1976.9 | 1976.9 | 1990.2 | 1976.9 | 1976.9 | 1972.6 |
| 37.5° | 1801.7 | 1810.3 | 1801.7 | 1806.0 | 1814.9 | 1801.7 | 1810.3 | 1806.0 |
| 40° | 1652.6 | 1661.5 | 1648.3 | 1656.9 | 1665.8 | 1652.6 | 1665.8 | 1656.9 |
| 42.5° | 1516.7 | 1530.0 | 1521.1 | 1530.0 | 1538.6 | 1530.0 | 1538.6 | 1525.6 |
| 45° | 1415.9 | 1424.8 | 1420.2 | 1424.8 | 1433.4 | 1429.1 | 1433.4 | 1429.1 |
| 47.5° | 1319.4 | 1336.9 | 1328.3 | 1336.9 | 1350.1 | 1341.5 | 1350.1 | 1336.9 |
| 50° | 1231.8 | 1245.0 | 1240.7 | 1249.3 | 1253.6 | 1249.3 | 1258.2 | 1245.0 |
| 52.5° | 1117.7 | 1131.0 | 1126.6 | 1126.6 | 1135.3 | 1126.6 | 1135.3 | 1126.6 |
| 55° | 968.9 | 973.2 | 973.2 | 977.6 | 973.2 | 968.9 | 973.2 | 964.3 |
| 57.5° | 824.2 | 832.8 | 819.8 | 832.8 | 828.5 | 824.2 | 824.2 | 815.3 |
| 60° | 732.0 | 745.2 | 736.5 | 745.2 | 740.8 | 740.8 | 740.8 | 736.5 |
| 62.5° | 657.5 | 666.4 | 657.5 | 661.9 | 661.9 | 661.9 | 657.5 | 653.2 |
| 65° | 574.2 | 587.4 | 578.6 | 583.1 | 578.6 | 574.2 | 578.6 | 574.2 |
| 67.5° | 490.9 | 495.2 | 495.2 | 490.9 | 490.9 | 490.9 | 490.9 | 482.3 |
| 70° | 399.0 | 403.3 | 399.0 | 407.6 | 403.3 | 399.0 | 403.3 | 394.4 |
| 72.5° | 311.1 | 315.7 | 311.1 | 315.7 | 311.1 | 311.1 | 311.1 | 311.1 |
| 75° | 232.4 | 236.7 | 236.7 | 236.7 | 236.7 | 236.7 | 228.1 | 236.7 |
| 77.5° | 166.6 | 166.6 | 166.6 | 170.9 | 166.6 | 166.6 | 166.6 | 166.6 |
| 80° | 114.0 | 114.0 | 114.0 | 118.4 | 114.0 | 118.4 | 114.0 | 118.4 |
| 82.5° | 74.4 | 74.4 | 74.4 | 74.4 | 74.4 | 74.4 | 74.4 | 74.4 |
| 85° | 39.4 | 43.9 | 43.9 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 |
| 87.5° | 8.9 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





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













(END OF REPORT)