

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: P249442

Luminaire Tested: **LD8B60D010 ER8B60850 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B60D010 ER8B60850 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5668.0 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

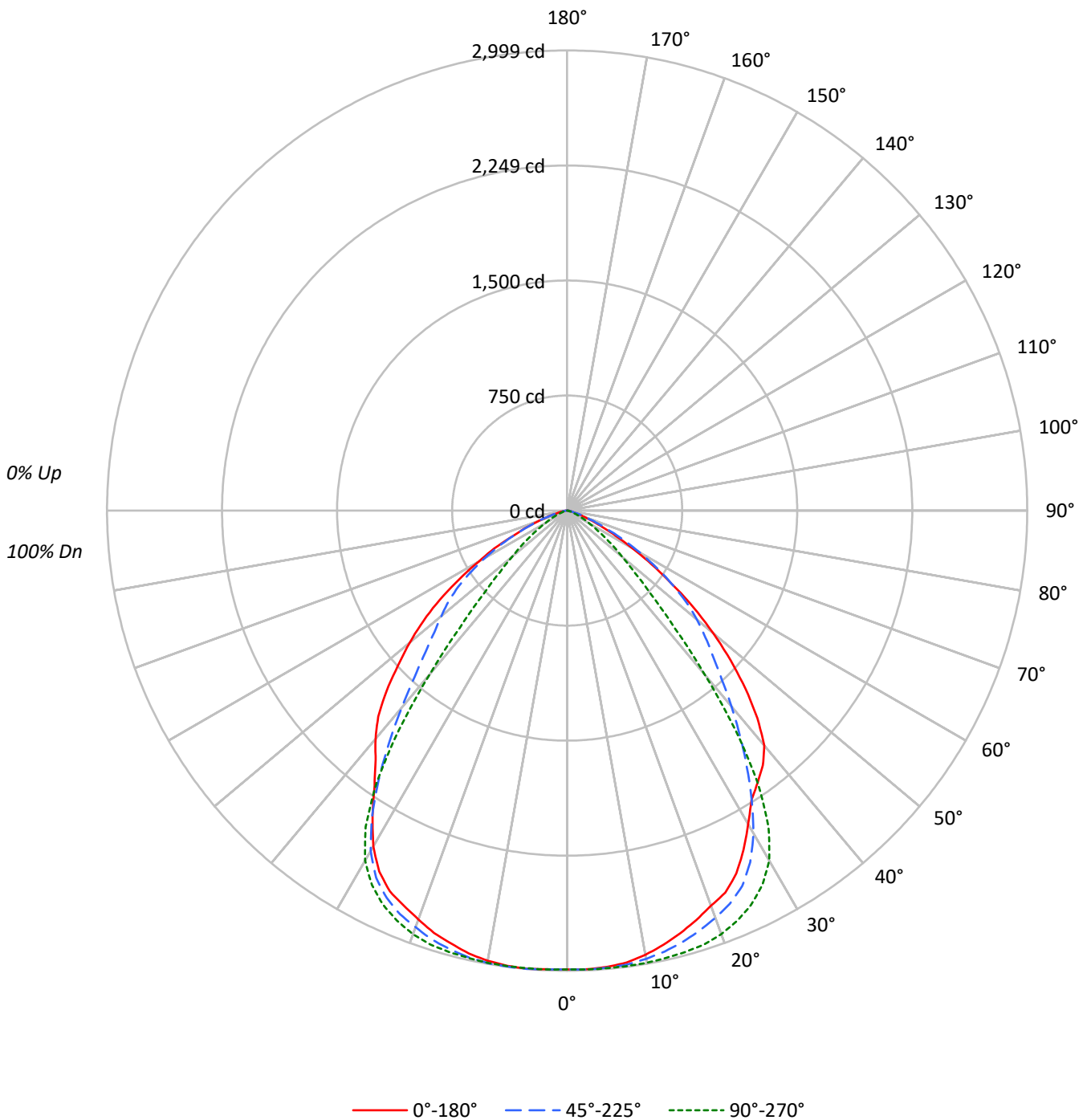
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249442

CATALOG NUMBER: LD8B60D010 ER8B60850 8LBDW0B

Luminous Intensity Polar Plot





TEST NUMBER: P249442

CATALOG NUMBER: LD8B60D010 ER8B60850 8LBDW0B

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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 91 | 90 |
| 2 | 104 | 97 | 92 | 88 | 101 | 96 | 91 | 87 | 92 | 88 | 85 | 89 | 86 | 83 | 86 | 83 | 81 | 79 |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 75 | 84 | 78 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 70 |
| 4 | 89 | 80 | 72 | 67 | 87 | 78 | 72 | 66 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 67 | 64 | 62 |
| 5 | 83 | 72 | 65 | 59 | 81 | 71 | 64 | 59 | 69 | 63 | 58 | 68 | 62 | 58 | 66 | 61 | 57 | 55 |
| 6 | 78 | 66 | 58 | 53 | 76 | 65 | 58 | 53 | 64 | 57 | 52 | 62 | 56 | 52 | 61 | 55 | 51 | 50 |
| 7 | 72 | 61 | 53 | 48 | 71 | 60 | 53 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 45 |
| 8 | 68 | 56 | 48 | 43 | 66 | 55 | 48 | 43 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 46 | 42 | 41 |
| 9 | 64 | 52 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 37 |
| 10 | 60 | 48 | 41 | 36 | 59 | 48 | 41 | 36 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 36 | 34 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 92216 | 92216 | 92216 |
| 5° | 92420 | 92670 | 92769 |
| 10° | 92032 | 93692 | 93288 |
| 15° | 91012 | 95060 | 93266 |
| 20° | 89921 | 96398 | 93028 |
| 25° | 88752 | 96509 | 93121 |
| 30° | 83964 | 93795 | 89964 |
| 35° | 81458 | 81515 | 82365 |
| 40° | 80448 | 56086 | 78185 |
| 45° | 71685 | 33671 | 72662 |
| 50° | 59606 | 22408 | 64226 |
| 55° | 44703 | 15451 | 54455 |
| 60° | 30294 | 10293 | 41086 |
| 65° | 18270 | 6676 | 28223 |
| 70° | 10134 | 3615 | 17365 |
| 75° | 4587 | 1525 | 8995 |
| 80° | 3996 | 1705 | 6269 |
| 85° | 4529 | 2264 | 6262 |



TEST NUMBER: P249442

CATALOG NUMBER: LD8B60D010 ER8B60850 8LBDW0B

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 285.4 | 5.0 |
| 10°-20° | 828.9 | 14.6 |
| 20°-30° | 1258.1 | 22.2 |
| 30°-40° | 1321.3 | 23.3 |
| 40°-50° | 990.6 | 17.5 |
| 50°-60° | 635.6 | 11.2 |
| 60°-70° | 271.9 | 4.8 |
| 70°-80° | 64.2 | 1.1 |
| 80°-90° | 11.9 | 0.2 |
| 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° | 2372.3 | 41.9 |
| 0°-40° | 3693.6 | 65.2 |
| 0°-60° | 5319.9 | 93.9 |
| 0°-90° | 5668.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5668.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2990 | 2990 | 2990 | 2990 | 2990 | |
| 5° | 2986 | 2990 | 2994 | 2999 | 2997 | 284 |
| 15° | 2851 | 2910 | 2978 | 2958 | 2922 | 804 |
| 25° | 2608 | 2700 | 2836 | 2785 | 2737 | 1192 |
| 35° | 2164 | 2044 | 2165 | 2140 | 2188 | 1358 |
| 45° | 1644 | 1344 | 772 | 1305 | 1666 | 1259 |
| 55° | 832 | 832 | 287 | 867 | 1013 | 754 |
| 65° | 250 | 295 | 92 | 380 | 387 | 267 |
| 75° | 38 | 45 | 13 | 77 | 76 | 56 |
| 85° | 13 | 8 | 6 | 13 | 18 | 14 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P249442

CATALOG NUMBER: LD8B60D010 ER8B60850 8LBDW0B

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2990.5 | 2990.5 | 2990.5 | 2990.5 | 2990.5 | 2990.5 | 2990.5 | 2990.5 | 2990.5 | 2990.5 | 2990.5 |
| 2.5° | 2992.2 | 2995.4 | 2993.8 | 2993.8 | 2992.2 | 2993.8 | 2993.8 | 2997.0 | 2997.0 | 2993.8 | 2992.2 |
| 5° | 2985.7 | 2988.9 | 2988.9 | 2985.7 | 2985.7 | 2993.8 | 2988.9 | 2992.2 | 2992.2 | 2990.5 | 2990.5 |
| 7.5° | 2971.3 | 2971.3 | 2977.7 | 2972.9 | 2972.9 | 2977.7 | 2976.1 | 2979.3 | 2982.5 | 2984.1 | 2984.1 |
| 10° | 2939.2 | 2942.4 | 2944.0 | 2944.0 | 2945.6 | 2950.4 | 2953.6 | 2960.1 | 2963.3 | 2966.5 | 2968.1 |
| 12.5° | 2899.1 | 2903.9 | 2905.5 | 2903.9 | 2908.7 | 2915.1 | 2923.1 | 2931.2 | 2936.0 | 2942.4 | 2947.2 |
| 15° | 2850.9 | 2850.9 | 2854.1 | 2858.9 | 2862.1 | 2871.8 | 2879.8 | 2889.4 | 2902.3 | 2910.3 | 2918.3 |
| 17.5° | 2797.9 | 2801.2 | 2805.9 | 2805.9 | 2812.4 | 2828.4 | 2833.2 | 2847.7 | 2862.1 | 2870.2 | 2886.2 |
| 20° | 2740.2 | 2743.3 | 2748.2 | 2751.4 | 2759.4 | 2772.2 | 2781.9 | 2794.7 | 2810.8 | 2825.2 | 2841.3 |
| 22.5° | 2695.2 | 2688.8 | 2692.0 | 2695.2 | 2703.2 | 2714.5 | 2725.7 | 2741.7 | 2757.8 | 2772.2 | 2788.3 |
| 25° | 2608.5 | 2610.1 | 2614.9 | 2618.1 | 2627.8 | 2637.4 | 2650.2 | 2669.5 | 2683.9 | 2700.0 | 2717.6 |
| 27.5° | 2491.3 | 2492.9 | 2501.0 | 2501.0 | 2509.0 | 2525.0 | 2533.0 | 2549.1 | 2568.4 | 2584.4 | 2605.3 |
| 30° | 2358.1 | 2361.3 | 2361.3 | 2367.7 | 2372.5 | 2380.6 | 2388.6 | 2404.6 | 2414.3 | 2428.7 | 2457.6 |
| 32.5° | 2236.1 | 2239.3 | 2237.7 | 2236.1 | 2231.3 | 2229.7 | 2228.1 | 2231.3 | 2234.5 | 2239.3 | 2250.5 |
| 35° | 2163.9 | 2155.8 | 2149.4 | 2138.2 | 2125.3 | 2109.3 | 2094.8 | 2075.6 | 2057.9 | 2043.5 | 2027.4 |
| 37.5° | 2094.8 | 2093.2 | 2083.6 | 2067.5 | 2041.8 | 2013.0 | 1979.3 | 1937.5 | 1895.8 | 1850.8 | 1807.5 |
| 40° | 1998.5 | 1993.7 | 1985.7 | 1963.2 | 1934.3 | 1899.0 | 1854.1 | 1802.7 | 1735.2 | 1666.2 | 1595.6 |
| 42.5° | 1834.8 | 1836.4 | 1826.8 | 1809.1 | 1781.8 | 1748.1 | 1701.5 | 1645.4 | 1573.1 | 1491.2 | 1399.8 |
| 45° | 1643.8 | 1643.8 | 1640.5 | 1626.1 | 1606.8 | 1579.5 | 1544.2 | 1497.7 | 1427.1 | 1343.6 | 1245.6 |
| 47.5° | 1444.7 | 1446.3 | 1441.5 | 1438.3 | 1430.3 | 1412.6 | 1386.9 | 1351.6 | 1301.9 | 1221.6 | 1123.7 |
| 50° | 1242.5 | 1242.5 | 1250.5 | 1248.9 | 1248.9 | 1242.5 | 1231.2 | 1210.3 | 1167.0 | 1102.8 | 1011.3 |
| 52.5° | 1040.2 | 1043.4 | 1048.2 | 1054.6 | 1062.7 | 1075.5 | 1062.7 | 1053.0 | 1025.7 | 976.0 | 897.3 |
| 55° | 831.5 | 834.7 | 842.7 | 854.0 | 863.6 | 876.5 | 879.7 | 879.7 | 865.2 | 831.5 | 772.1 |
| 57.5° | 653.3 | 648.5 | 655.0 | 664.6 | 677.4 | 690.3 | 699.9 | 711.1 | 709.5 | 687.0 | 638.9 |
| 60° | 491.2 | 492.8 | 497.6 | 507.3 | 516.9 | 528.1 | 541.0 | 550.6 | 555.4 | 544.2 | 513.7 |
| 62.5° | 358.0 | 358.0 | 364.4 | 374.0 | 378.8 | 394.9 | 402.9 | 407.7 | 412.5 | 410.9 | 391.7 |
| 65° | 250.4 | 253.6 | 256.8 | 261.7 | 266.5 | 276.1 | 280.9 | 290.5 | 293.8 | 295.4 | 280.9 |
| 67.5° | 176.6 | 171.8 | 175.0 | 178.2 | 183.0 | 189.4 | 199.1 | 199.1 | 203.9 | 203.9 | 194.2 |
| 70° | 112.4 | 112.4 | 114.0 | 118.8 | 122.0 | 123.6 | 126.8 | 130.0 | 134.8 | 133.2 | 133.2 |
| 72.5° | 75.5 | 73.8 | 75.5 | 77.1 | 78.7 | 83.5 | 83.5 | 85.1 | 88.3 | 89.9 | 83.5 |
| 75° | 38.5 | 40.1 | 43.3 | 41.8 | 46.5 | 43.3 | 44.9 | 49.8 | 48.2 | 44.9 | 44.9 |
| 77.5° | 32.1 | 32.1 | 32.1 | 30.5 | 33.7 | 33.7 | 32.1 | 35.3 | 33.7 | 33.7 | 32.1 |
| 80° | 22.5 | 24.1 | 22.5 | 20.9 | 22.5 | 20.9 | 20.9 | 20.9 | 20.9 | 20.9 | 19.2 |
| 82.5° | 17.7 | 14.5 | 16.1 | 14.5 | 16.1 | 16.1 | 14.5 | 12.8 | 12.8 | 14.5 | 12.8 |
| 85° | 12.8 | 9.6 | 11.2 | 11.2 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 8.0 | 8.0 |
| 87.5° | 8.0 | 4.8 | 4.8 | 4.8 | 6.4 | 6.4 | 6.4 | 4.8 | 6.4 | 6.4 | 3.2 |
| 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: P249442

CATALOG NUMBER: LD8B60D010 ER8B60850 8LBDW0B

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2990.5 | 2990.5 | 2990.5 | 2990.5 | 2990.5 | 2990.5 | 2990.5 | 2990.5 | 2990.5 | 2990.5 | 2990.5 |
| 2.5° | 2995.4 | 2993.8 | 2997.0 | 2995.4 | 2995.4 | 2993.8 | 2995.4 | 2993.8 | 2997.0 | 2990.5 | 2992.2 |
| 5° | 2995.4 | 2992.2 | 2993.8 | 2995.4 | 2997.0 | 2993.8 | 2993.8 | 2993.8 | 2997.0 | 2993.8 | 2995.4 |
| 7.5° | 2988.9 | 2987.3 | 2992.2 | 2995.4 | 2993.8 | 2992.2 | 2995.4 | 2993.8 | 2997.0 | 2995.4 | 2998.6 |
| 10° | 2976.1 | 2977.7 | 2980.9 | 2985.7 | 2987.3 | 2988.9 | 2992.2 | 2992.2 | 2997.0 | 2990.5 | 2993.8 |
| 12.5° | 2956.8 | 2963.3 | 2971.3 | 2974.5 | 2980.9 | 2980.9 | 2984.1 | 2985.7 | 2988.9 | 2987.3 | 2992.2 |
| 15° | 2932.8 | 2940.8 | 2950.4 | 2958.5 | 2966.5 | 2971.3 | 2976.1 | 2977.7 | 2982.5 | 2977.7 | 2979.3 |
| 17.5° | 2903.9 | 2913.5 | 2927.9 | 2937.6 | 2950.4 | 2955.2 | 2961.6 | 2964.9 | 2969.7 | 2966.5 | 2968.1 |
| 20° | 2863.7 | 2875.0 | 2891.0 | 2905.5 | 2913.5 | 2924.7 | 2932.8 | 2937.6 | 2940.8 | 2937.6 | 2939.2 |
| 22.5° | 2807.6 | 2823.6 | 2844.5 | 2855.7 | 2871.8 | 2881.4 | 2883.0 | 2894.2 | 2902.3 | 2894.2 | 2897.5 |
| 25° | 2741.7 | 2757.8 | 2773.9 | 2797.9 | 2812.4 | 2823.6 | 2834.9 | 2836.5 | 2844.5 | 2842.9 | 2841.3 |
| 27.5° | 2632.6 | 2653.5 | 2680.7 | 2700.0 | 2719.3 | 2736.9 | 2749.8 | 2753.0 | 2761.0 | 2757.8 | 2759.4 |
| 30° | 2483.3 | 2505.8 | 2531.5 | 2562.0 | 2589.2 | 2606.9 | 2623.0 | 2634.2 | 2642.2 | 2637.4 | 2635.8 |
| 32.5° | 2271.4 | 2293.9 | 2321.2 | 2351.7 | 2383.8 | 2409.4 | 2428.7 | 2443.2 | 2452.8 | 2449.6 | 2441.6 |
| 35° | 2029.0 | 2035.4 | 2053.1 | 2077.2 | 2104.4 | 2131.7 | 2149.4 | 2165.4 | 2176.7 | 2179.9 | 2179.9 |
| 37.5° | 1780.2 | 1759.4 | 1746.5 | 1746.5 | 1762.5 | 1773.8 | 1789.8 | 1799.5 | 1817.1 | 1823.5 | 1828.4 |
| 40° | 1539.4 | 1491.2 | 1446.3 | 1412.6 | 1390.1 | 1388.5 | 1388.5 | 1393.3 | 1409.4 | 1430.3 | 1449.5 |
| 42.5° | 1324.3 | 1247.3 | 1178.2 | 1115.6 | 1070.7 | 1045.0 | 1033.8 | 1035.4 | 1048.2 | 1067.5 | 1099.6 |
| 45° | 1152.6 | 1056.2 | 969.6 | 894.1 | 833.1 | 793.0 | 773.7 | 772.1 | 781.7 | 804.2 | 839.6 |
| 47.5° | 1019.3 | 916.6 | 818.7 | 732.0 | 666.2 | 622.8 | 600.4 | 594.0 | 600.4 | 621.2 | 663.0 |
| 50° | 908.6 | 802.6 | 701.5 | 611.6 | 541.0 | 496.0 | 475.1 | 467.1 | 475.1 | 492.8 | 534.5 |
| 52.5° | 805.8 | 696.7 | 602.0 | 515.3 | 439.8 | 401.3 | 378.8 | 374.0 | 378.8 | 399.7 | 433.4 |
| 55° | 687.0 | 594.0 | 500.8 | 414.1 | 348.4 | 309.8 | 292.1 | 287.4 | 292.1 | 311.4 | 346.7 |
| 57.5° | 569.9 | 489.6 | 407.7 | 329.1 | 272.9 | 239.2 | 223.1 | 216.7 | 227.9 | 240.8 | 282.5 |
| 60° | 460.7 | 396.5 | 327.5 | 258.4 | 211.9 | 181.4 | 168.5 | 166.9 | 170.2 | 186.2 | 215.1 |
| 62.5° | 361.2 | 308.2 | 253.6 | 197.4 | 158.9 | 146.1 | 130.0 | 128.4 | 131.6 | 141.2 | 163.7 |
| 65° | 260.1 | 226.4 | 184.6 | 144.5 | 114.0 | 96.3 | 89.9 | 91.5 | 94.7 | 101.1 | 122.0 |
| 67.5° | 181.4 | 157.3 | 128.4 | 101.1 | 78.7 | 70.6 | 64.2 | 62.6 | 64.2 | 75.5 | 86.7 |
| 70° | 122.0 | 107.5 | 86.7 | 77.1 | 54.6 | 43.3 | 44.9 | 40.1 | 46.5 | 46.5 | 56.2 |
| 72.5° | 80.2 | 70.6 | 57.8 | 44.9 | 38.5 | 30.5 | 30.5 | 28.9 | 32.1 | 33.7 | 41.8 |
| 75° | 41.8 | 32.1 | 32.1 | 22.5 | 16.1 | 8.0 | 14.5 | 12.8 | 11.2 | 12.8 | 16.1 |
| 77.5° | 28.9 | 24.1 | 22.5 | 17.7 | 16.1 | 12.8 | 12.8 | 12.8 | 12.8 | 14.5 | 16.1 |
| 80° | 17.7 | 17.7 | 12.8 | 11.2 | 9.6 | 8.0 | 9.6 | 9.6 | 9.6 | 9.6 | 11.2 |
| 82.5° | 11.2 | 9.6 | 9.6 | 8.0 | 8.0 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 9.6 |
| 85° | 9.6 | 6.4 | 6.4 | 4.8 | 6.4 | 11.2 | 4.8 | 6.4 | 6.4 | 6.4 | 4.8 |
| 87.5° | 3.2 | 4.8 | 4.8 | 4.8 | 3.2 | 1.6 | 3.2 | 4.8 | 4.8 | 8.0 | 6.4 |
| 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: P249442

CATALOG NUMBER: LD8B60D010 ER8B60850 8LBDW0B

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2990.5 | 2990.5 | 2990.5 | 2990.5 | 2990.5 | 2990.5 | 2990.5 | 2990.5 | 2990.5 | 2990.5 | 2990.5 |
| 2.5° | 2995.4 | 2997.0 | 2997.0 | 2995.4 | 2995.4 | 2992.2 | 2998.6 | 2993.8 | 2995.4 | 3001.8 | 2997.0 |
| 5° | 2998.6 | 3000.2 | 3000.2 | 2998.6 | 2998.6 | 2998.6 | 3000.2 | 3000.2 | 2998.6 | 2997.0 | 3000.2 |
| 7.5° | 3005.0 | 3003.4 | 3003.4 | 3000.2 | 3000.2 | 2997.0 | 3000.2 | 2995.4 | 2998.6 | 2995.4 | 3000.2 |
| 10° | 2997.0 | 2998.6 | 2997.0 | 2995.4 | 2995.4 | 2993.8 | 2993.8 | 2988.9 | 2990.5 | 2985.7 | 2988.9 |
| 12.5° | 2992.2 | 2990.5 | 2990.5 | 2987.3 | 2984.1 | 2980.9 | 2979.3 | 2974.5 | 2974.5 | 2963.3 | 2968.1 |
| 15° | 2979.3 | 2980.9 | 2976.1 | 2969.7 | 2966.5 | 2958.5 | 2955.2 | 2948.8 | 2942.4 | 2934.4 | 2936.0 |
| 17.5° | 2968.1 | 2963.3 | 2956.8 | 2950.4 | 2937.6 | 2931.2 | 2924.7 | 2915.1 | 2911.9 | 2902.3 | 2899.1 |
| 20° | 2934.4 | 2931.2 | 2923.1 | 2911.9 | 2903.9 | 2889.4 | 2883.0 | 2873.4 | 2865.3 | 2855.7 | 2850.9 |
| 22.5° | 2891.0 | 2887.8 | 2878.2 | 2866.9 | 2854.1 | 2847.7 | 2841.3 | 2823.6 | 2815.6 | 2805.9 | 2804.3 |
| 25° | 2836.5 | 2831.6 | 2822.0 | 2809.2 | 2802.7 | 2785.1 | 2778.6 | 2765.8 | 2762.6 | 2753.0 | 2751.4 |
| 27.5° | 2753.0 | 2746.6 | 2735.3 | 2719.3 | 2708.0 | 2696.8 | 2690.4 | 2680.7 | 2677.5 | 2667.9 | 2666.3 |
| 30° | 2627.8 | 2619.7 | 2597.3 | 2590.9 | 2571.6 | 2560.3 | 2560.3 | 2547.5 | 2549.1 | 2542.7 | 2542.7 |
| 32.5° | 2430.3 | 2417.5 | 2399.8 | 2387.0 | 2374.1 | 2367.7 | 2367.7 | 2362.9 | 2366.1 | 2366.1 | 2369.3 |
| 35° | 2168.7 | 2151.0 | 2141.4 | 2133.4 | 2133.4 | 2139.8 | 2159.0 | 2163.9 | 2173.5 | 2181.5 | 2188.0 |
| 37.5° | 1833.2 | 1831.6 | 1842.8 | 1852.4 | 1876.5 | 1903.8 | 1937.5 | 1966.4 | 1993.7 | 2013.0 | 2032.2 |
| 40° | 1470.4 | 1510.5 | 1542.6 | 1587.6 | 1624.5 | 1677.5 | 1738.5 | 1788.2 | 1834.8 | 1868.5 | 1903.8 |
| 42.5° | 1147.7 | 1199.1 | 1266.5 | 1332.3 | 1398.2 | 1470.4 | 1550.7 | 1619.7 | 1680.7 | 1727.2 | 1764.1 |
| 45° | 894.1 | 964.7 | 1046.6 | 1130.1 | 1215.2 | 1305.1 | 1388.5 | 1459.2 | 1523.4 | 1571.5 | 1608.5 |
| 47.5° | 720.7 | 797.8 | 890.9 | 982.4 | 1078.7 | 1173.4 | 1266.5 | 1327.5 | 1380.5 | 1419.0 | 1452.8 |
| 50° | 595.5 | 677.4 | 775.3 | 879.7 | 976.0 | 1070.7 | 1150.9 | 1210.3 | 1253.7 | 1287.4 | 1308.3 |
| 52.5° | 497.6 | 584.3 | 688.7 | 793.0 | 889.3 | 976.0 | 1048.2 | 1093.2 | 1128.5 | 1152.6 | 1171.8 |
| 55° | 410.9 | 494.4 | 592.3 | 690.3 | 785.0 | 866.8 | 926.2 | 959.9 | 987.2 | 1001.7 | 1012.9 |
| 57.5° | 335.5 | 412.5 | 502.4 | 592.3 | 674.2 | 741.6 | 788.2 | 821.9 | 834.7 | 846.0 | 844.3 |
| 60° | 263.3 | 335.5 | 417.4 | 494.4 | 565.0 | 619.6 | 653.3 | 672.6 | 682.2 | 687.0 | 683.8 |
| 62.5° | 207.1 | 272.9 | 335.5 | 402.9 | 454.3 | 500.8 | 533.0 | 533.0 | 537.7 | 539.4 | 544.2 |
| 65° | 154.1 | 203.9 | 258.4 | 308.2 | 349.9 | 380.4 | 398.1 | 402.9 | 409.3 | 407.7 | 404.5 |
| 67.5° | 114.0 | 150.9 | 191.0 | 227.9 | 256.8 | 276.1 | 288.9 | 300.2 | 298.6 | 295.4 | 293.8 |
| 70° | 78.7 | 102.7 | 138.1 | 160.5 | 181.4 | 200.7 | 203.9 | 205.5 | 207.1 | 208.7 | 205.5 |
| 72.5° | 54.6 | 72.2 | 91.5 | 110.8 | 123.6 | 131.6 | 139.7 | 141.2 | 141.2 | 141.2 | 139.7 |
| 75° | 27.3 | 36.9 | 54.6 | 62.6 | 73.8 | 77.1 | 83.5 | 83.5 | 88.3 | 81.9 | 80.2 |
| 77.5° | 24.1 | 28.9 | 38.5 | 44.9 | 49.8 | 54.6 | 56.2 | 61.0 | 59.4 | 56.2 | 57.8 |
| 80° | 14.5 | 17.7 | 24.1 | 27.3 | 33.7 | 35.3 | 36.9 | 38.5 | 36.9 | 38.5 | 38.5 |
| 82.5° | 11.2 | 12.8 | 16.1 | 16.1 | 20.9 | 20.9 | 22.5 | 22.5 | 24.1 | 24.1 | 24.1 |
| 85° | 6.4 | 11.2 | 9.6 | 19.2 | 12.8 | 12.8 | 16.1 | 19.2 | 16.1 | 16.1 | 19.2 |
| 87.5° | 6.4 | 6.4 | 4.8 | 6.4 | 6.4 | 6.4 | 8.0 | 9.6 | 9.6 | 11.2 | 9.6 |
| 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: P249442

CATALOG NUMBER: LD8B60D010 ER8B60850 8LBDW0B

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 2990.5 | 2990.5 | 2990.5 | 2990.5 |
| 2.5° | 2995.4 | 2998.6 | 2993.8 | 2992.2 |
| 5° | 3000.2 | 3000.2 | 2997.0 | 2997.0 |
| 7.5° | 3000.2 | 3000.2 | 2995.4 | 2992.2 |
| 10° | 2987.3 | 2987.3 | 2982.5 | 2979.3 |
| 12.5° | 2963.3 | 2963.3 | 2961.6 | 2956.8 |
| 15° | 2932.8 | 2932.8 | 2926.3 | 2921.5 |
| 17.5° | 2891.0 | 2894.2 | 2886.2 | 2886.2 |
| 20° | 2846.1 | 2844.5 | 2838.1 | 2834.9 |
| 22.5° | 2799.5 | 2796.3 | 2794.7 | 2785.1 |
| 25° | 2749.8 | 2746.6 | 2741.7 | 2736.9 |
| 27.5° | 2664.7 | 2663.1 | 2658.3 | 2651.9 |
| 30° | 2534.7 | 2533.0 | 2526.6 | 2526.6 |
| 32.5° | 2366.1 | 2364.5 | 2358.1 | 2359.7 |
| 35° | 2191.1 | 2197.6 | 2194.4 | 2188.0 |
| 37.5° | 2045.1 | 2049.9 | 2053.1 | 2049.9 |
| 40° | 1923.1 | 1937.5 | 1939.1 | 1942.3 |
| 42.5° | 1793.1 | 1812.3 | 1818.7 | 1821.9 |
| 45° | 1637.3 | 1655.0 | 1669.4 | 1666.2 |
| 47.5° | 1478.4 | 1491.2 | 1504.1 | 1494.5 |
| 50° | 1325.9 | 1333.9 | 1338.8 | 1338.8 |
| 52.5° | 1181.5 | 1181.5 | 1179.9 | 1181.5 |
| 55° | 1016.1 | 1016.1 | 1009.7 | 1012.9 |
| 57.5° | 842.7 | 846.0 | 841.1 | 833.1 |
| 60° | 682.2 | 674.2 | 671.0 | 666.2 |
| 62.5° | 531.3 | 531.3 | 520.1 | 534.5 |
| 65° | 398.1 | 393.3 | 388.5 | 386.8 |
| 67.5° | 288.9 | 287.4 | 282.5 | 280.9 |
| 70° | 203.9 | 197.4 | 195.8 | 192.6 |
| 72.5° | 136.4 | 136.4 | 133.2 | 133.2 |
| 75° | 83.5 | 75.5 | 73.8 | 75.5 |
| 77.5° | 57.8 | 56.2 | 56.2 | 54.6 |
| 80° | 38.5 | 36.9 | 40.1 | 35.3 |
| 82.5° | 24.1 | 25.7 | 24.1 | 25.7 |
| 85° | 16.1 | 19.2 | 17.7 | 17.7 |
| 87.5° | 9.6 | 9.6 | 9.6 | 9.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)