

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: P249298

Luminaire Tested: **LD8B60D010 ER8B60827 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249298
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 ER8B60827 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5798.0 lumens
Efficiency: N/A
Efficacy: 97.4 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

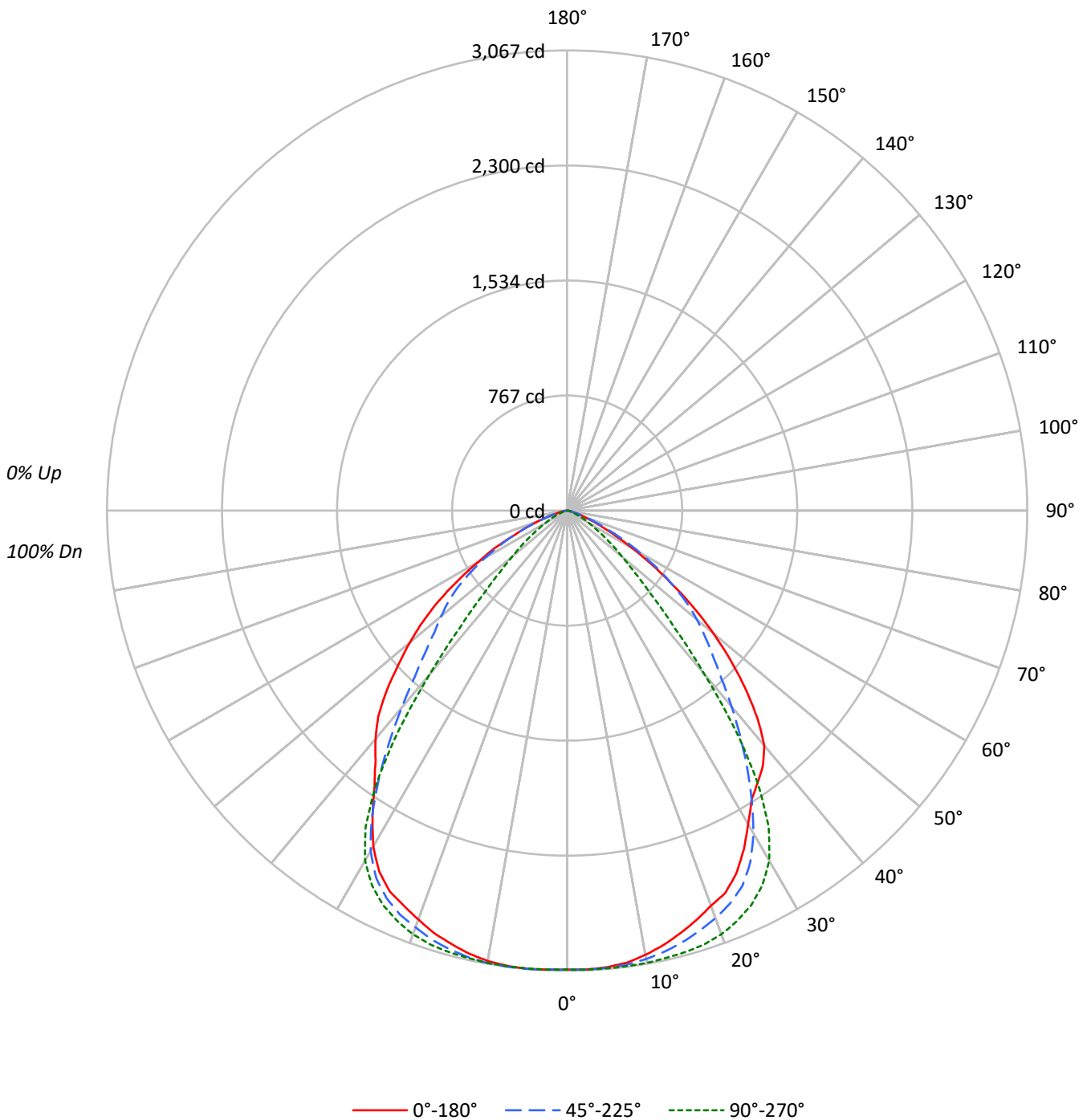
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249298

CATALOG NUMBER: LD8B60D010 ER8B60827 8LBDW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P249298

CATALOG NUMBER: LD8B60D010 ER8B60827 8LBDW0GPH

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 94331 | 94331 | 94331 |
| 5° | 94540 | 94794 | 94896 |
| 10° | 94143 | 95840 | 95426 |
| 15° | 93100 | 97241 | 95405 |
| 20° | 91981 | 98607 | 95161 |
| 25° | 90787 | 98721 | 95257 |
| 30° | 85891 | 95946 | 92029 |
| 35° | 83325 | 83386 | 84251 |
| 40° | 82295 | 57374 | 79981 |
| 45° | 73329 | 34442 | 74327 |
| 50° | 60973 | 22921 | 65699 |
| 55° | 45730 | 15800 | 55702 |
| 60° | 30990 | 10534 | 42030 |
| 65° | 18694 | 6830 | 28872 |
| 70° | 10359 | 3706 | 17761 |
| 75° | 4694 | 1561 | 9198 |
| 80° | 4084 | 1740 | 6411 |
| 85° | 4635 | 2300 | 6404 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 292.0 | 5.0 |
| 10°-20° | 847.9 | 14.6 |
| 20°-30° | 1286.9 | 22.2 |
| 30°-40° | 1351.6 | 23.3 |
| 40°-50° | 1013.4 | 17.5 |
| 50°-60° | 650.2 | 11.2 |
| 60°-70° | 278.1 | 4.8 |
| 70°-80° | 65.7 | 1.1 |
| 80°-90° | 12.2 | 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° | 2426.7 | 41.9 |
| 0°-40° | 3778.4 | 65.2 |
| 0°-60° | 5441.9 | 93.9 |
| 0°-90° | 5798.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5798.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 3059 | 3059 | 3059 | 3059 | 3059 | |
| 5° | 3054 | 3059 | 3062 | 3067 | 3066 | 290 |
| 15° | 2916 | 2977 | 3046 | 3026 | 2988 | 823 |
| 25° | 2668 | 2762 | 2902 | 2849 | 2800 | 1219 |
| 35° | 2214 | 2090 | 2215 | 2189 | 2238 | 1389 |
| 45° | 1682 | 1374 | 790 | 1335 | 1704 | 1288 |
| 55° | 851 | 851 | 294 | 887 | 1036 | 772 |
| 65° | 256 | 302 | 94 | 389 | 396 | 273 |
| 75° | 39 | 46 | 13 | 79 | 77 | 57 |
| 85° | 13 | 8 | 6 | 13 | 18 | 14 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P249298

CATALOG NUMBER: LD8B60D010 ER8B60827 8LBDW0GPH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3059.1 | 3059.1 | 3059.1 | 3059.1 | 3059.1 | 3059.1 | 3059.1 | 3059.1 | 3059.1 | 3059.1 | 3059.1 |
| 2.5° | 3060.8 | 3064.1 | 3062.4 | 3062.4 | 3060.8 | 3062.4 | 3062.4 | 3065.7 | 3065.7 | 3062.4 | 3060.8 |
| 5° | 3054.2 | 3057.5 | 3057.5 | 3054.2 | 3054.2 | 3062.4 | 3057.5 | 3060.8 | 3060.8 | 3059.1 | 3059.1 |
| 7.5° | 3039.5 | 3039.5 | 3046.0 | 3041.1 | 3041.1 | 3046.0 | 3044.4 | 3047.6 | 3050.9 | 3052.6 | 3052.6 |
| 10° | 3006.6 | 3009.9 | 3011.5 | 3011.5 | 3013.2 | 3018.1 | 3021.4 | 3028.0 | 3031.2 | 3034.5 | 3036.2 |
| 12.5° | 2965.6 | 2970.5 | 2972.1 | 2970.5 | 2975.4 | 2982.0 | 2990.2 | 2998.4 | 3003.3 | 3009.9 | 3014.8 |
| 15° | 2916.3 | 2916.3 | 2919.6 | 2924.5 | 2927.8 | 2937.6 | 2945.8 | 2955.7 | 2968.8 | 2977.1 | 2985.3 |
| 17.5° | 2862.1 | 2865.4 | 2870.3 | 2870.3 | 2876.9 | 2893.3 | 2898.2 | 2913.0 | 2927.8 | 2936.0 | 2952.4 |
| 20° | 2803.0 | 2806.3 | 2811.2 | 2814.5 | 2822.7 | 2835.8 | 2845.7 | 2858.8 | 2875.2 | 2890.0 | 2906.4 |
| 22.5° | 2757.0 | 2750.4 | 2753.7 | 2757.0 | 2765.2 | 2776.7 | 2788.2 | 2804.6 | 2821.0 | 2835.8 | 2852.3 |
| 25° | 2668.3 | 2670.0 | 2674.9 | 2678.2 | 2688.1 | 2697.9 | 2711.0 | 2730.7 | 2745.5 | 2761.9 | 2780.0 |
| 27.5° | 2548.5 | 2550.1 | 2558.3 | 2558.3 | 2566.5 | 2582.9 | 2591.1 | 2607.6 | 2627.3 | 2643.7 | 2665.1 |
| 30° | 2412.2 | 2415.4 | 2415.4 | 2422.0 | 2426.9 | 2435.2 | 2443.4 | 2459.8 | 2469.6 | 2484.4 | 2514.0 |
| 32.5° | 2287.4 | 2290.6 | 2289.0 | 2287.4 | 2282.5 | 2280.8 | 2279.2 | 2282.5 | 2285.7 | 2290.6 | 2302.1 |
| 35° | 2213.5 | 2205.3 | 2198.7 | 2187.2 | 2174.1 | 2157.7 | 2142.9 | 2123.2 | 2105.1 | 2090.3 | 2073.9 |
| 37.5° | 2142.9 | 2141.2 | 2131.4 | 2114.9 | 2088.7 | 2059.1 | 2024.7 | 1982.0 | 1939.2 | 1893.3 | 1849.0 |
| 40° | 2044.4 | 2039.4 | 2031.2 | 2008.2 | 1978.7 | 1942.5 | 1896.6 | 1844.0 | 1775.0 | 1704.4 | 1632.2 |
| 42.5° | 1876.9 | 1878.5 | 1868.7 | 1850.6 | 1822.7 | 1788.2 | 1740.6 | 1683.1 | 1609.2 | 1525.5 | 1431.9 |
| 45° | 1681.5 | 1681.5 | 1678.2 | 1663.4 | 1643.7 | 1615.8 | 1579.7 | 1532.0 | 1459.8 | 1374.4 | 1274.2 |
| 47.5° | 1477.8 | 1479.5 | 1474.5 | 1471.3 | 1463.1 | 1445.0 | 1418.7 | 1382.6 | 1331.7 | 1249.6 | 1149.4 |
| 50° | 1271.0 | 1271.0 | 1279.2 | 1277.5 | 1277.5 | 1271.0 | 1259.5 | 1238.1 | 1193.8 | 1128.1 | 1034.5 |
| 52.5° | 1064.0 | 1067.3 | 1072.3 | 1078.8 | 1087.0 | 1100.2 | 1087.0 | 1077.2 | 1049.3 | 998.4 | 917.9 |
| 55° | 850.6 | 853.9 | 862.1 | 873.6 | 883.4 | 896.6 | 899.8 | 899.8 | 885.0 | 850.6 | 789.8 |
| 57.5° | 668.3 | 663.4 | 670.0 | 679.8 | 693.0 | 706.1 | 715.9 | 727.4 | 725.8 | 702.8 | 653.5 |
| 60° | 502.5 | 504.1 | 509.0 | 518.9 | 528.7 | 540.2 | 553.4 | 563.2 | 568.2 | 556.7 | 525.5 |
| 62.5° | 366.2 | 366.2 | 372.7 | 382.6 | 387.5 | 404.0 | 412.1 | 417.1 | 422.0 | 420.3 | 400.7 |
| 65° | 256.2 | 259.4 | 262.7 | 267.7 | 272.6 | 282.4 | 287.4 | 297.2 | 300.5 | 302.1 | 287.4 |
| 67.5° | 180.6 | 175.7 | 179.0 | 182.2 | 187.2 | 193.8 | 203.6 | 203.6 | 208.5 | 208.5 | 198.7 |
| 70° | 114.9 | 114.9 | 116.6 | 121.5 | 124.8 | 126.4 | 129.7 | 133.0 | 137.9 | 136.3 | 136.3 |
| 72.5° | 77.2 | 75.5 | 77.2 | 78.8 | 80.5 | 85.4 | 85.4 | 87.0 | 90.3 | 92.0 | 85.4 |
| 75° | 39.4 | 41.1 | 44.3 | 42.7 | 47.6 | 44.3 | 46.0 | 50.9 | 49.3 | 46.0 | 46.0 |
| 77.5° | 32.8 | 32.8 | 32.8 | 31.2 | 34.5 | 34.5 | 32.8 | 36.1 | 34.5 | 34.5 | 32.8 |
| 80° | 23.0 | 24.6 | 23.0 | 21.3 | 23.0 | 21.3 | 21.3 | 21.3 | 21.3 | 21.3 | 19.7 |
| 82.5° | 18.1 | 14.8 | 16.4 | 14.8 | 16.4 | 16.4 | 14.8 | 13.1 | 13.1 | 14.8 | 13.1 |
| 85° | 13.1 | 9.8 | 11.5 | 11.5 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 8.2 | 8.2 |
| 87.5° | 8.2 | 4.9 | 4.9 | 4.9 | 6.5 | 6.5 | 6.5 | 4.9 | 6.5 | 6.5 | 3.3 |
| 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: P249298

CATALOG NUMBER: LD8B60D010 ER8B60827 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3059.1 | 3059.1 | 3059.1 | 3059.1 | 3059.1 | 3059.1 | 3059.1 | 3059.1 | 3059.1 | 3059.1 | 3059.1 |
| 2.5° | 3064.1 | 3062.4 | 3065.7 | 3064.1 | 3064.1 | 3062.4 | 3064.1 | 3062.4 | 3065.7 | 3059.1 | 3060.8 |
| 5° | 3064.1 | 3060.8 | 3062.4 | 3064.1 | 3065.7 | 3062.4 | 3062.4 | 3062.4 | 3065.7 | 3062.4 | 3064.1 |
| 7.5° | 3057.5 | 3055.8 | 3060.8 | 3064.1 | 3062.4 | 3060.8 | 3064.1 | 3062.4 | 3065.7 | 3064.1 | 3067.3 |
| 10° | 3044.4 | 3046.0 | 3049.3 | 3054.2 | 3055.8 | 3057.5 | 3060.8 | 3060.8 | 3065.7 | 3059.1 | 3062.4 |
| 12.5° | 3024.7 | 3031.2 | 3039.5 | 3042.7 | 3049.3 | 3049.3 | 3052.6 | 3054.2 | 3057.5 | 3055.8 | 3060.8 |
| 15° | 3000.0 | 3008.2 | 3018.1 | 3026.3 | 3034.5 | 3039.5 | 3044.4 | 3046.0 | 3050.9 | 3046.0 | 3047.6 |
| 17.5° | 2970.5 | 2980.3 | 2995.1 | 3004.9 | 3018.1 | 3023.0 | 3029.6 | 3032.9 | 3037.8 | 3034.5 | 3036.2 |
| 20° | 2929.4 | 2940.9 | 2957.3 | 2972.1 | 2980.3 | 2991.8 | 3000.0 | 3004.9 | 3008.2 | 3004.9 | 3006.6 |
| 22.5° | 2871.9 | 2888.4 | 2909.7 | 2921.2 | 2937.6 | 2947.5 | 2949.1 | 2960.6 | 2968.8 | 2960.6 | 2963.9 |
| 25° | 2804.6 | 2821.0 | 2837.5 | 2862.1 | 2876.9 | 2888.4 | 2899.9 | 2901.5 | 2909.7 | 2908.1 | 2906.4 |
| 27.5° | 2693.0 | 2714.3 | 2742.2 | 2761.9 | 2781.6 | 2799.7 | 2812.8 | 2816.1 | 2824.3 | 2821.0 | 2822.7 |
| 30° | 2540.2 | 2563.3 | 2589.5 | 2620.7 | 2648.6 | 2666.7 | 2683.1 | 2694.6 | 2702.8 | 2697.9 | 2696.2 |
| 32.5° | 2323.5 | 2346.5 | 2374.4 | 2405.6 | 2438.5 | 2464.7 | 2484.4 | 2499.2 | 2509.1 | 2505.8 | 2497.6 |
| 35° | 2075.6 | 2082.1 | 2100.2 | 2124.8 | 2152.7 | 2180.6 | 2198.7 | 2215.1 | 2226.6 | 2229.9 | 2229.9 |
| 37.5° | 1821.0 | 1799.7 | 1786.6 | 1786.6 | 1803.0 | 1814.5 | 1830.9 | 1840.7 | 1858.8 | 1865.4 | 1870.3 |
| 40° | 1574.7 | 1525.5 | 1479.5 | 1445.0 | 1422.0 | 1420.4 | 1420.4 | 1425.3 | 1441.7 | 1463.1 | 1482.8 |
| 42.5° | 1354.7 | 1275.9 | 1205.3 | 1141.2 | 1095.3 | 1069.0 | 1057.5 | 1059.1 | 1072.3 | 1092.0 | 1124.8 |
| 45° | 1179.0 | 1080.5 | 991.8 | 914.6 | 852.2 | 811.2 | 791.5 | 789.8 | 799.7 | 822.7 | 858.8 |
| 47.5° | 1042.7 | 937.6 | 837.4 | 748.8 | 681.5 | 637.1 | 614.1 | 607.6 | 614.1 | 635.5 | 678.2 |
| 50° | 929.4 | 821.0 | 717.6 | 625.6 | 553.4 | 507.4 | 486.0 | 477.8 | 486.0 | 504.1 | 546.8 |
| 52.5° | 824.3 | 712.6 | 615.8 | 527.1 | 449.9 | 410.5 | 387.5 | 382.6 | 387.5 | 408.9 | 443.4 |
| 55° | 702.8 | 607.6 | 512.3 | 423.6 | 356.3 | 316.9 | 298.8 | 293.9 | 298.8 | 318.6 | 354.7 |
| 57.5° | 582.9 | 500.8 | 417.1 | 336.6 | 279.2 | 244.6 | 228.3 | 221.7 | 233.2 | 246.3 | 289.0 |
| 60° | 471.3 | 405.6 | 335.0 | 264.4 | 216.8 | 185.5 | 172.4 | 170.8 | 174.1 | 190.5 | 220.0 |
| 62.5° | 369.5 | 315.3 | 259.4 | 202.0 | 162.6 | 149.4 | 133.0 | 131.4 | 134.6 | 144.5 | 167.5 |
| 65° | 266.0 | 231.5 | 188.8 | 147.8 | 116.6 | 98.5 | 92.0 | 93.6 | 96.9 | 103.5 | 124.8 |
| 67.5° | 185.5 | 160.9 | 131.4 | 103.5 | 80.5 | 72.2 | 65.7 | 64.0 | 65.7 | 77.2 | 88.7 |
| 70° | 124.8 | 110.0 | 88.7 | 78.8 | 55.8 | 44.3 | 46.0 | 41.1 | 47.6 | 47.6 | 57.5 |
| 72.5° | 82.1 | 72.2 | 59.1 | 46.0 | 39.4 | 31.2 | 31.2 | 29.6 | 32.8 | 34.5 | 42.7 |
| 75° | 42.7 | 32.8 | 32.8 | 23.0 | 16.4 | 8.2 | 14.8 | 13.1 | 11.5 | 13.1 | 16.4 |
| 77.5° | 29.6 | 24.6 | 23.0 | 18.1 | 16.4 | 13.1 | 13.1 | 13.1 | 13.1 | 14.8 | 16.4 |
| 80° | 18.1 | 18.1 | 13.1 | 11.5 | 9.8 | 8.2 | 9.8 | 9.8 | 9.8 | 9.8 | 11.5 |
| 82.5° | 11.5 | 9.8 | 9.8 | 8.2 | 8.2 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 9.8 |
| 85° | 9.8 | 6.5 | 6.5 | 4.9 | 6.5 | 11.5 | 4.9 | 6.5 | 6.5 | 6.5 | 4.9 |
| 87.5° | 3.3 | 4.9 | 4.9 | 4.9 | 3.3 | 1.6 | 3.3 | 4.9 | 4.9 | 8.2 | 6.5 |
| 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: P249298

CATALOG NUMBER: LD8B60D010 ER8B60827 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3059.1 | 3059.1 | 3059.1 | 3059.1 | 3059.1 | 3059.1 | 3059.1 | 3059.1 | 3059.1 | 3059.1 | 3059.1 |
| 2.5° | 3064.1 | 3065.7 | 3065.7 | 3064.1 | 3064.1 | 3060.8 | 3067.3 | 3062.4 | 3064.1 | 3070.6 | 3065.7 |
| 5° | 3067.3 | 3069.0 | 3069.0 | 3067.3 | 3067.3 | 3067.3 | 3069.0 | 3069.0 | 3067.3 | 3065.7 | 3069.0 |
| 7.5° | 3073.9 | 3072.3 | 3072.3 | 3069.0 | 3069.0 | 3065.7 | 3069.0 | 3064.1 | 3067.3 | 3064.1 | 3069.0 |
| 10° | 3065.7 | 3067.3 | 3065.7 | 3064.1 | 3064.1 | 3062.4 | 3062.4 | 3057.5 | 3059.1 | 3054.2 | 3057.5 |
| 12.5° | 3060.8 | 3059.1 | 3059.1 | 3055.8 | 3052.6 | 3049.3 | 3047.6 | 3042.7 | 3042.7 | 3031.2 | 3036.2 |
| 15° | 3047.6 | 3049.3 | 3044.4 | 3037.8 | 3034.5 | 3026.3 | 3023.0 | 3016.4 | 3009.9 | 3001.7 | 3003.3 |
| 17.5° | 3036.2 | 3031.2 | 3024.7 | 3018.1 | 3004.9 | 2998.4 | 2991.8 | 2982.0 | 2978.7 | 2968.8 | 2965.6 |
| 20° | 3001.7 | 2998.4 | 2990.2 | 2978.7 | 2970.5 | 2955.7 | 2949.1 | 2939.3 | 2931.1 | 2921.2 | 2916.3 |
| 22.5° | 2957.3 | 2954.0 | 2944.2 | 2932.7 | 2919.6 | 2913.0 | 2906.4 | 2888.4 | 2880.1 | 2870.3 | 2868.7 |
| 25° | 2901.5 | 2896.6 | 2886.7 | 2873.6 | 2867.0 | 2849.0 | 2842.4 | 2829.2 | 2826.0 | 2816.1 | 2814.5 |
| 27.5° | 2816.1 | 2809.6 | 2798.1 | 2781.6 | 2770.1 | 2758.6 | 2752.1 | 2742.2 | 2739.0 | 2729.1 | 2727.5 |
| 30° | 2688.1 | 2679.8 | 2656.8 | 2650.3 | 2630.6 | 2619.1 | 2619.1 | 2605.9 | 2607.6 | 2601.0 | 2601.0 |
| 32.5° | 2486.1 | 2472.9 | 2454.9 | 2441.7 | 2428.6 | 2422.0 | 2422.0 | 2417.1 | 2420.4 | 2420.4 | 2423.7 |
| 35° | 2218.4 | 2200.4 | 2190.5 | 2182.3 | 2182.3 | 2188.8 | 2208.6 | 2213.5 | 2223.3 | 2231.5 | 2238.1 |
| 37.5° | 1875.2 | 1873.6 | 1885.1 | 1894.9 | 1919.6 | 1947.5 | 1982.0 | 2011.5 | 2039.4 | 2059.1 | 2078.8 |
| 40° | 1504.1 | 1545.2 | 1578.0 | 1624.0 | 1661.7 | 1715.9 | 1778.3 | 1829.2 | 1876.9 | 1911.4 | 1947.5 |
| 42.5° | 1174.1 | 1226.6 | 1295.6 | 1362.9 | 1430.2 | 1504.1 | 1586.2 | 1656.8 | 1719.2 | 1766.8 | 1804.6 |
| 45° | 914.6 | 986.9 | 1070.6 | 1156.0 | 1243.0 | 1335.0 | 1420.4 | 1492.6 | 1558.3 | 1607.6 | 1645.3 |
| 47.5° | 737.3 | 816.1 | 911.3 | 1004.9 | 1103.5 | 1200.3 | 1295.6 | 1358.0 | 1412.1 | 1451.6 | 1486.1 |
| 50° | 609.2 | 693.0 | 793.1 | 899.8 | 998.4 | 1095.3 | 1177.3 | 1238.1 | 1282.5 | 1316.9 | 1338.3 |
| 52.5° | 509.0 | 597.7 | 704.4 | 811.2 | 909.7 | 998.4 | 1072.3 | 1118.2 | 1154.4 | 1179.0 | 1198.7 |
| 55° | 420.3 | 505.8 | 605.9 | 706.1 | 803.0 | 886.7 | 947.4 | 982.0 | 1009.8 | 1024.6 | 1036.1 |
| 57.5° | 343.2 | 422.0 | 514.0 | 605.9 | 689.7 | 758.6 | 806.3 | 840.7 | 853.9 | 865.4 | 863.7 |
| 60° | 269.3 | 343.2 | 426.9 | 505.8 | 578.0 | 633.8 | 668.3 | 688.0 | 697.9 | 702.8 | 699.5 |
| 62.5° | 211.8 | 279.2 | 343.2 | 412.1 | 464.7 | 512.3 | 545.2 | 545.2 | 550.1 | 551.7 | 556.7 |
| 65° | 157.6 | 208.5 | 264.4 | 315.3 | 357.9 | 389.2 | 407.2 | 412.1 | 418.7 | 417.1 | 413.8 |
| 67.5° | 116.6 | 154.4 | 195.4 | 233.2 | 262.7 | 282.4 | 295.6 | 307.1 | 305.4 | 302.1 | 300.5 |
| 70° | 80.5 | 105.1 | 141.2 | 164.2 | 185.5 | 205.3 | 208.5 | 210.2 | 211.8 | 213.5 | 210.2 |
| 72.5° | 55.8 | 73.9 | 93.6 | 113.3 | 126.4 | 134.6 | 142.9 | 144.5 | 144.5 | 144.5 | 142.9 |
| 75° | 27.9 | 37.8 | 55.8 | 64.0 | 75.5 | 78.8 | 85.4 | 85.4 | 90.3 | 83.7 | 82.1 |
| 77.5° | 24.6 | 29.6 | 39.4 | 46.0 | 50.9 | 55.8 | 57.5 | 62.4 | 60.7 | 57.5 | 59.1 |
| 80° | 14.8 | 18.1 | 24.6 | 27.9 | 34.5 | 36.1 | 37.8 | 39.4 | 37.8 | 39.4 | 39.4 |
| 82.5° | 11.5 | 13.1 | 16.4 | 16.4 | 21.3 | 21.3 | 23.0 | 23.0 | 24.6 | 24.6 | 24.6 |
| 85° | 6.5 | 11.5 | 9.8 | 19.7 | 13.1 | 13.1 | 16.4 | 19.7 | 16.4 | 16.4 | 19.7 |
| 87.5° | 6.5 | 6.5 | 4.9 | 6.5 | 6.5 | 6.5 | 8.2 | 9.8 | 9.8 | 11.5 | 9.8 |
| 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: P249298

CATALOG NUMBER: LD8B60D010 ER8B60827 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 3059.1 | 3059.1 | 3059.1 | 3059.1 |
| 2.5° | 3064.1 | 3067.3 | 3062.4 | 3060.8 |
| 5° | 3069.0 | 3069.0 | 3065.7 | 3065.7 |
| 7.5° | 3069.0 | 3069.0 | 3064.1 | 3060.8 |
| 10° | 3055.8 | 3055.8 | 3050.9 | 3047.6 |
| 12.5° | 3031.2 | 3031.2 | 3029.6 | 3024.7 |
| 15° | 3000.0 | 3000.0 | 2993.4 | 2988.5 |
| 17.5° | 2957.3 | 2960.6 | 2952.4 | 2952.4 |
| 20° | 2911.4 | 2909.7 | 2903.2 | 2899.9 |
| 22.5° | 2863.8 | 2860.5 | 2858.8 | 2849.0 |
| 25° | 2812.8 | 2809.6 | 2804.6 | 2799.7 |
| 27.5° | 2725.8 | 2724.2 | 2719.2 | 2712.7 |
| 30° | 2592.8 | 2591.1 | 2584.6 | 2584.6 |
| 32.5° | 2420.4 | 2418.7 | 2412.2 | 2413.8 |
| 35° | 2241.4 | 2248.0 | 2244.7 | 2238.1 |
| 37.5° | 2092.0 | 2096.9 | 2100.2 | 2096.9 |
| 40° | 1967.2 | 1982.0 | 1983.6 | 1986.9 |
| 42.5° | 1834.2 | 1853.9 | 1860.5 | 1863.7 |
| 45° | 1674.9 | 1693.0 | 1707.7 | 1704.4 |
| 47.5° | 1512.3 | 1525.5 | 1538.6 | 1528.7 |
| 50° | 1356.3 | 1364.5 | 1369.5 | 1369.5 |
| 52.5° | 1208.6 | 1208.6 | 1206.9 | 1208.6 |
| 55° | 1039.4 | 1039.4 | 1032.9 | 1036.1 |
| 57.5° | 862.1 | 865.4 | 860.4 | 852.2 |
| 60° | 697.9 | 689.7 | 686.4 | 681.5 |
| 62.5° | 543.5 | 543.5 | 532.0 | 546.8 |
| 65° | 407.2 | 402.3 | 397.4 | 395.7 |
| 67.5° | 295.6 | 293.9 | 289.0 | 287.4 |
| 70° | 208.5 | 202.0 | 200.3 | 197.0 |
| 72.5° | 139.6 | 139.6 | 136.3 | 136.3 |
| 75° | 85.4 | 77.2 | 75.5 | 77.2 |
| 77.5° | 59.1 | 57.5 | 57.5 | 55.8 |
| 80° | 39.4 | 37.8 | 41.1 | 36.1 |
| 82.5° | 24.6 | 26.3 | 24.6 | 26.3 |
| 85° | 16.4 | 19.7 | 18.1 | 18.1 |
| 87.5° | 9.8 | 9.8 | 9.8 | 9.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)