

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: P244175

Luminaire Tested: **LD8B50D010 ER8B50835 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B50D010 ER8B50835 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5784.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

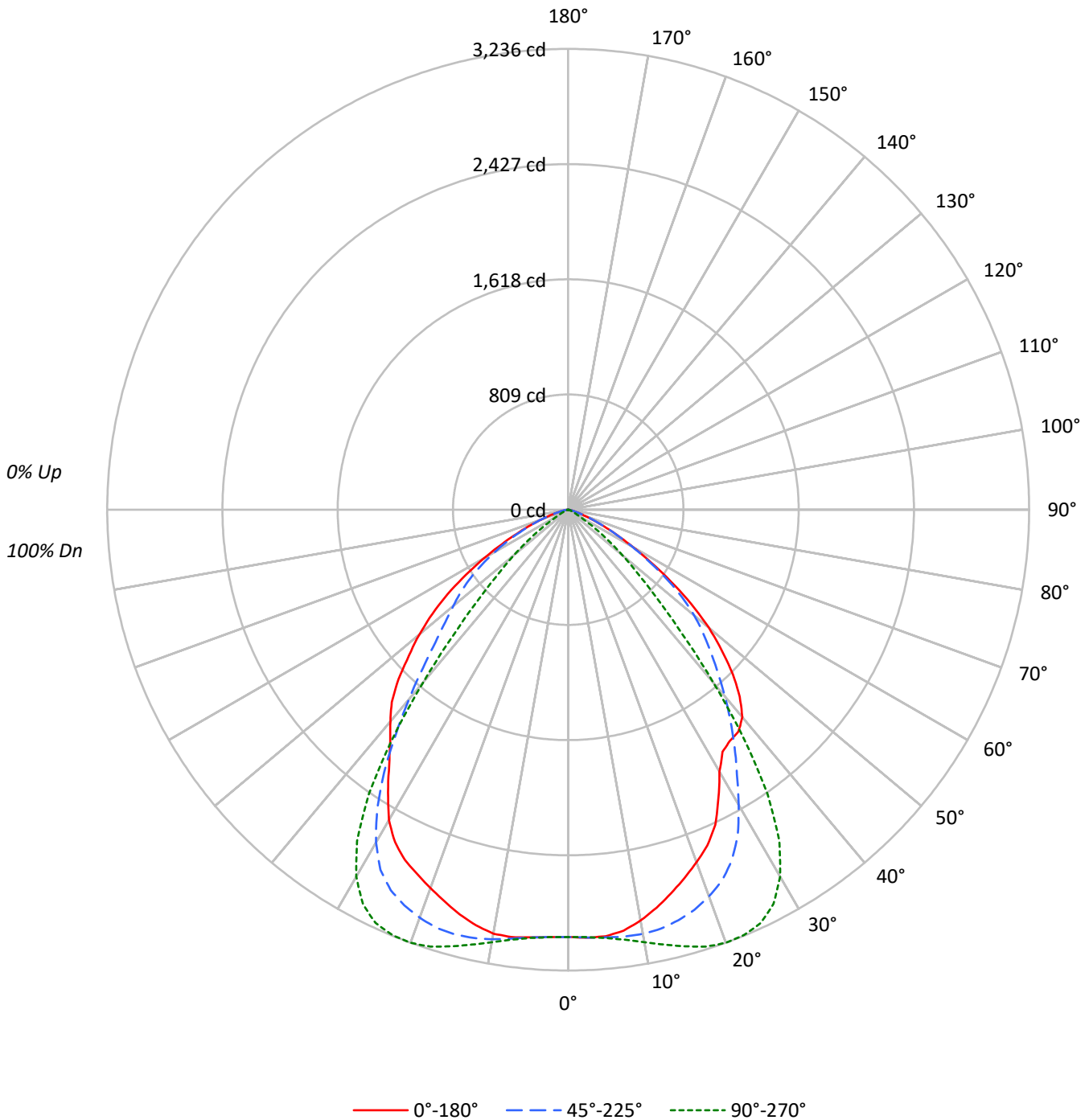
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244175

CATALOG NUMBER: LD8B50D010 ER8B50835 8LBDW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P244175

CATALOG NUMBER: LD8B50D010 ER8B50835 8LBDW0LI

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 | 92 | 90 | | | | | 90 | | | |
| 2 | 104 | 98 | 92 | 88 | 102 | 96 | 91 | 87 | 92 | 88 | 85 | 89 | 86 | 83 | 86 | 84 | 81 | 79 | | | | | 79 | | | |
| 3 | 97 | 88 | 82 | 76 | 94 | 87 | 81 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | | | | 70 | | | |
| 4 | 90 | 80 | 73 | 67 | 88 | 79 | 72 | 67 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 68 | 64 | 62 | | | | | 62 | | | |
| 5 | 84 | 73 | 65 | 60 | 82 | 72 | 65 | 59 | 70 | 63 | 59 | 68 | 62 | 58 | 66 | 61 | 58 | 56 | | | | | 56 | | | |
| 6 | 78 | 66 | 59 | 53 | 76 | 66 | 58 | 53 | 64 | 57 | 53 | 62 | 57 | 52 | 61 | 56 | 52 | 50 | | | | | 50 | | | |
| 7 | 73 | 61 | 53 | 48 | 71 | 60 | 53 | 48 | 59 | 52 | 48 | 57 | 52 | 47 | 56 | 51 | 47 | 45 | | | | | 45 | | | |
| 8 | 68 | 56 | 49 | 44 | 67 | 56 | 48 | 43 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 41 | | | | | 41 | | | |
| 9 | 64 | 52 | 45 | 40 | 63 | 51 | 44 | 40 | 50 | 44 | 39 | 49 | 44 | 39 | 48 | 43 | 39 | 38 | | | | | 38 | | | |
| 10 | 60 | 48 | 41 | 36 | 59 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 45 | 40 | 36 | 34 | | | | | 34 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|--------|-------|
| 0° | 92524 | 92524 | 92524 |
| 5° | 93076 | 93423 | 93324 |
| 10° | 91710 | 96547 | 94653 |
| 15° | 89027 | 101330 | 93908 |
| 20° | 86445 | 106200 | 92769 |
| 25° | 83124 | 108918 | 92338 |
| 30° | 75650 | 105934 | 89601 |
| 35° | 74524 | 91792 | 82437 |
| 40° | 76547 | 63662 | 78149 |
| 45° | 71262 | 38476 | 73481 |
| 50° | 61808 | 23761 | 65478 |
| 55° | 47434 | 12414 | 55568 |
| 60° | 32316 | 5008 | 41944 |
| 65° | 20102 | 2554 | 28938 |
| 70° | 10909 | 1578 | 17662 |
| 75° | 5695 | 763 | 10437 |
| 80° | 2539 | 852 | 5647 |
| 85° | 1698 | 566 | 5059 |



TEST NUMBER: P244175

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 288.6 | 5.0 |
| 10°-20° | 854.8 | 14.8 |
| 20°-30° | 1304.1 | 22.5 |
| 30°-40° | 1360.9 | 23.5 |
| 40°-50° | 1022.2 | 17.7 |
| 50°-60° | 628.9 | 10.9 |
| 60°-70° | 256.0 | 4.4 |
| 70°-80° | 60.3 | 1.0 |
| 80°-90° | 8.3 | 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° | 2447.5 | 42.3 |
| 0°-40° | 3808.3 | 65.8 |
| 0°-60° | 5459.4 | 94.4 |
| 0°-90° | 5784.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5784.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 3000 | 3000 | 3000 | 3000 | 3000 | |
| 5° | 3007 | 3015 | 3018 | 3015 | 3015 | 284 |
| 15° | 2789 | 2985 | 3174 | 3086 | 2942 | 786 |
| 25° | 2443 | 2717 | 3201 | 2948 | 2714 | 1111 |
| 35° | 1980 | 2035 | 2438 | 2254 | 2190 | 1250 |
| 45° | 1634 | 1414 | 882 | 1317 | 1685 | 1247 |
| 55° | 882 | 838 | 231 | 838 | 1034 | 793 |
| 65° | 276 | 279 | 35 | 374 | 397 | 287 |
| 75° | 48 | 48 | 6 | 84 | 88 | 58 |
| 85° | 5 | 5 | 2 | 11 | 14 | 7 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P244175

CATALOG NUMBER: LD8B50D010 ER8B50835 8LBDWOLI

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3000.5 | 3000.5 | 3000.5 | 3000.5 | 3000.5 | 3000.5 | 3000.5 | 3000.5 | 3000.5 | 3000.5 | 3000.5 |
| 2.5° | 3008.5 | 3003.7 | 3008.5 | 3008.5 | 3010.1 | 3006.9 | 3008.5 | 3010.1 | 3006.9 | 3006.9 | 3006.9 |
| 5° | 3006.9 | 3003.7 | 3006.9 | 3005.3 | 3008.5 | 3008.5 | 3011.7 | 3011.7 | 3014.9 | 3014.9 | 3019.7 |
| 7.5° | 2981.4 | 2975.1 | 2981.4 | 2986.2 | 2989.4 | 2995.8 | 3003.7 | 3010.1 | 3016.5 | 3022.9 | 3030.8 |
| 10° | 2928.9 | 2928.9 | 2933.7 | 2943.2 | 2952.8 | 2963.9 | 2978.2 | 2994.2 | 3010.1 | 3024.4 | 3038.8 |
| 12.5° | 2863.6 | 2858.8 | 2868.4 | 2881.1 | 2895.4 | 2913.0 | 2935.3 | 2959.1 | 2984.6 | 3013.3 | 3035.6 |
| 15° | 2788.7 | 2783.9 | 2795.1 | 2807.8 | 2825.4 | 2850.9 | 2877.9 | 2909.8 | 2946.4 | 2984.6 | 3021.3 |
| 17.5° | 2712.3 | 2710.7 | 2721.8 | 2739.4 | 2753.7 | 2780.7 | 2815.8 | 2854.0 | 2895.4 | 2946.4 | 2994.2 |
| 20° | 2634.3 | 2632.7 | 2643.8 | 2658.1 | 2677.2 | 2702.7 | 2737.8 | 2782.3 | 2831.7 | 2889.1 | 2944.8 |
| 22.5° | 2553.0 | 2554.6 | 2564.2 | 2580.1 | 2596.0 | 2623.1 | 2659.7 | 2704.3 | 2758.5 | 2820.6 | 2882.7 |
| 25° | 2443.1 | 2435.2 | 2447.9 | 2463.8 | 2490.9 | 2513.2 | 2548.3 | 2596.0 | 2651.8 | 2717.1 | 2790.3 |
| 27.5° | 2283.8 | 2282.2 | 2293.4 | 2307.7 | 2331.6 | 2358.7 | 2396.9 | 2446.3 | 2505.2 | 2576.9 | 2648.6 |
| 30° | 2124.6 | 2127.8 | 2132.6 | 2146.9 | 2162.8 | 2189.9 | 2228.1 | 2269.5 | 2325.3 | 2393.7 | 2470.2 |
| 32.5° | 2016.3 | 2016.3 | 2022.7 | 2032.2 | 2043.4 | 2057.7 | 2084.8 | 2115.0 | 2158.1 | 2205.8 | 2261.6 |
| 35° | 1979.7 | 1973.3 | 1979.7 | 1981.2 | 1982.8 | 1986.0 | 1990.8 | 2000.4 | 2014.7 | 2035.4 | 2056.1 |
| 37.5° | 1963.8 | 1959.0 | 1959.0 | 1952.6 | 1944.6 | 1935.1 | 1922.3 | 1908.0 | 1892.1 | 1871.4 | 1855.5 |
| 40° | 1901.6 | 1898.4 | 1895.2 | 1888.9 | 1871.4 | 1852.3 | 1831.5 | 1798.1 | 1761.5 | 1710.5 | 1659.6 |
| 42.5° | 1782.2 | 1779.0 | 1777.4 | 1764.7 | 1748.7 | 1726.4 | 1702.5 | 1667.5 | 1621.3 | 1556.0 | 1482.8 |
| 45° | 1634.1 | 1627.7 | 1622.9 | 1611.8 | 1600.6 | 1581.5 | 1559.2 | 1527.3 | 1481.2 | 1414.3 | 1326.7 |
| 47.5° | 1462.1 | 1458.9 | 1457.3 | 1452.5 | 1441.4 | 1430.2 | 1415.9 | 1390.4 | 1349.0 | 1285.3 | 1194.5 |
| 50° | 1288.4 | 1282.1 | 1285.3 | 1283.7 | 1278.9 | 1271.0 | 1261.4 | 1243.9 | 1212.0 | 1154.7 | 1071.9 |
| 52.5° | 1089.4 | 1089.4 | 1087.8 | 1092.5 | 1094.1 | 1092.5 | 1094.1 | 1075.1 | 1048.0 | 1004.9 | 934.9 |
| 55° | 882.3 | 882.3 | 887.1 | 893.5 | 899.8 | 901.4 | 899.8 | 891.9 | 872.8 | 837.7 | 775.6 |
| 57.5° | 688.0 | 684.8 | 694.4 | 703.9 | 710.3 | 716.7 | 711.9 | 705.5 | 694.4 | 665.7 | 617.9 |
| 60° | 524.0 | 524.0 | 530.3 | 536.7 | 543.1 | 549.5 | 547.9 | 546.3 | 536.7 | 517.6 | 479.4 |
| 62.5° | 385.4 | 387.0 | 387.0 | 391.8 | 398.2 | 404.5 | 409.3 | 404.5 | 399.7 | 387.0 | 361.5 |
| 65° | 275.5 | 273.9 | 275.5 | 280.3 | 285.1 | 291.5 | 294.6 | 293.1 | 288.3 | 278.7 | 259.6 |
| 67.5° | 184.8 | 183.2 | 189.5 | 191.1 | 194.3 | 200.7 | 199.1 | 200.7 | 199.1 | 191.1 | 175.2 |
| 70° | 121.0 | 117.8 | 121.0 | 119.4 | 124.2 | 125.8 | 129.0 | 130.6 | 129.0 | 124.2 | 119.4 |
| 72.5° | 74.9 | 73.3 | 74.9 | 76.5 | 78.1 | 79.6 | 82.8 | 82.8 | 81.2 | 78.1 | 71.7 |
| 75° | 47.8 | 43.0 | 44.6 | 41.4 | 44.6 | 44.6 | 47.8 | 49.4 | 47.8 | 47.8 | 44.6 |
| 77.5° | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 30.3 | 31.8 | 28.7 | 27.1 |
| 80° | 14.3 | 14.3 | 15.9 | 15.9 | 15.9 | 17.5 | 15.9 | 15.9 | 15.9 | 17.5 | 12.7 |
| 82.5° | 11.1 | 9.5 | 9.5 | 9.5 | 11.1 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 |
| 85° | 4.8 | 6.4 | 4.8 | 3.2 | 4.8 | 4.8 | 6.4 | 4.8 | 4.8 | 4.8 | 6.4 |
| 87.5° | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 1.6 | 1.6 | 3.2 | 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: P244175

CATALOG NUMBER: LD8B50D010 ER8B50835 8LBDW0LI

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3000.5 | 3000.5 | 3000.5 | 3000.5 | 3000.5 | 3000.5 | 3000.5 | 3000.5 | 3000.5 | 3000.5 | 3000.5 |
| 2.5° | 3008.5 | 3005.3 | 3005.3 | 3003.7 | 3006.9 | 3003.7 | 3005.3 | 3003.7 | 3003.7 | 3006.9 | 3003.7 |
| 5° | 3019.7 | 3021.3 | 3018.1 | 3016.5 | 3021.3 | 3021.3 | 3021.3 | 3018.1 | 3018.1 | 3019.7 | 3018.1 |
| 7.5° | 3035.6 | 3038.8 | 3040.4 | 3042.0 | 3045.2 | 3046.8 | 3046.8 | 3045.2 | 3043.6 | 3048.3 | 3042.0 |
| 10° | 3053.1 | 3057.9 | 3067.4 | 3072.2 | 3080.2 | 3080.2 | 3083.4 | 3083.4 | 3080.2 | 3083.4 | 3081.8 |
| 12.5° | 3046.8 | 3075.4 | 3091.3 | 3102.5 | 3113.6 | 3123.2 | 3126.4 | 3128.0 | 3126.4 | 3132.8 | 3126.4 |
| 15° | 3057.9 | 3081.8 | 3107.3 | 3126.4 | 3147.1 | 3158.2 | 3161.4 | 3174.1 | 3177.3 | 3178.9 | 3169.4 |
| 17.5° | 3040.4 | 3083.4 | 3110.4 | 3139.1 | 3169.4 | 3190.1 | 3209.2 | 3217.2 | 3218.8 | 3221.9 | 3209.2 |
| 20° | 3000.5 | 3048.3 | 3089.7 | 3131.2 | 3166.2 | 3198.0 | 3214.0 | 3236.3 | 3229.9 | 3242.7 | 3225.1 |
| 22.5° | 2946.4 | 3000.5 | 3053.1 | 3107.3 | 3143.9 | 3182.1 | 3215.6 | 3231.5 | 3239.5 | 3239.5 | 3220.3 |
| 25° | 2860.4 | 2924.1 | 2981.4 | 3037.2 | 3092.9 | 3139.1 | 3177.3 | 3201.2 | 3206.0 | 3204.4 | 3182.1 |
| 27.5° | 2726.6 | 2795.1 | 2862.0 | 2925.7 | 2994.2 | 3048.3 | 3092.9 | 3121.6 | 3129.6 | 3129.6 | 3105.7 |
| 30° | 2541.9 | 2615.1 | 2680.4 | 2756.9 | 2827.0 | 2887.5 | 2949.6 | 2975.1 | 2989.4 | 2989.4 | 2962.3 |
| 32.5° | 2322.1 | 2384.2 | 2444.7 | 2519.6 | 2596.0 | 2664.5 | 2723.4 | 2758.5 | 2776.0 | 2774.4 | 2750.5 |
| 35° | 2083.2 | 2113.4 | 2159.6 | 2215.4 | 2283.8 | 2347.6 | 2404.9 | 2438.4 | 2468.6 | 2467.0 | 2444.7 |
| 37.5° | 1844.3 | 1836.3 | 1841.1 | 1861.8 | 1904.8 | 1949.4 | 1994.0 | 2025.9 | 2051.3 | 2062.5 | 2057.7 |
| 40° | 1610.2 | 1568.8 | 1528.9 | 1514.6 | 1517.8 | 1533.7 | 1557.6 | 1581.5 | 1610.2 | 1624.5 | 1630.9 |
| 42.5° | 1399.9 | 1329.9 | 1259.8 | 1207.2 | 1177.0 | 1167.4 | 1178.6 | 1186.5 | 1204.0 | 1224.7 | 1245.5 |
| 45° | 1231.1 | 1137.2 | 1044.8 | 963.6 | 912.6 | 882.3 | 876.0 | 882.3 | 891.9 | 912.6 | 939.7 |
| 47.5° | 1092.5 | 982.7 | 879.2 | 788.4 | 713.5 | 673.7 | 662.6 | 659.4 | 668.9 | 688.0 | 724.6 |
| 50° | 969.9 | 860.0 | 745.4 | 640.2 | 562.2 | 517.6 | 501.7 | 495.3 | 506.4 | 520.8 | 554.2 |
| 52.5° | 836.1 | 727.8 | 610.0 | 508.0 | 426.8 | 380.7 | 363.1 | 353.6 | 359.9 | 379.1 | 412.5 |
| 55° | 691.2 | 590.9 | 484.2 | 379.1 | 301.0 | 258.0 | 237.3 | 230.9 | 237.3 | 258.0 | 291.5 |
| 57.5° | 546.3 | 461.9 | 372.7 | 273.9 | 203.8 | 160.9 | 140.1 | 133.8 | 151.3 | 159.3 | 194.3 |
| 60° | 426.8 | 358.4 | 281.9 | 200.7 | 140.1 | 106.7 | 86.0 | 81.2 | 89.2 | 103.5 | 132.2 |
| 62.5° | 320.1 | 277.1 | 216.6 | 143.3 | 103.5 | 68.5 | 57.3 | 52.6 | 57.3 | 68.5 | 90.8 |
| 65° | 232.5 | 199.1 | 151.3 | 105.1 | 70.1 | 51.0 | 38.2 | 35.0 | 39.8 | 47.8 | 66.9 |
| 67.5° | 159.3 | 133.8 | 105.1 | 73.3 | 47.8 | 31.8 | 27.1 | 27.1 | 28.7 | 35.0 | 49.4 |
| 70° | 103.5 | 87.6 | 66.9 | 47.8 | 31.8 | 23.9 | 20.7 | 17.5 | 20.7 | 25.5 | 33.4 |
| 72.5° | 65.3 | 55.7 | 43.0 | 33.4 | 23.9 | 17.5 | 14.3 | 12.7 | 15.9 | 19.1 | 25.5 |
| 75° | 39.8 | 30.3 | 22.3 | 17.5 | 12.7 | 12.7 | 12.7 | 6.4 | 8.0 | 12.7 | 15.9 |
| 77.5° | 23.9 | 20.7 | 17.5 | 14.3 | 11.1 | 6.4 | 6.4 | 6.4 | 8.0 | 9.5 | 14.3 |
| 80° | 12.7 | 11.1 | 8.0 | 8.0 | 6.4 | 4.8 | 6.4 | 4.8 | 3.2 | 8.0 | 9.5 |
| 82.5° | 8.0 | 6.4 | 6.4 | 6.4 | 8.0 | 3.2 | 4.8 | 3.2 | 4.8 | 6.4 | 4.8 |
| 85° | 4.8 | 4.8 | 4.8 | 3.2 | 8.0 | 3.2 | 3.2 | 1.6 | 1.6 | 3.2 | 3.2 |
| 87.5° | 0.0 | 1.6 | 1.6 | 0.0 | 1.6 | 0.0 | 1.6 | 1.6 | 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: P244175

CATALOG NUMBER: LD8B50D010 ER8B50835 8LBDW0LI

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3000.5 | 3000.5 | 3000.5 | 3000.5 | 3000.5 | 3000.5 | 3000.5 | 3000.5 | 3000.5 | 3000.5 | 3000.5 |
| 2.5° | 3005.3 | 3003.7 | 3005.3 | 3003.7 | 3003.7 | 3003.7 | 3005.3 | 3005.3 | 3003.7 | 3003.7 | 3006.9 |
| 5° | 3018.1 | 3018.1 | 3018.1 | 3016.5 | 3014.9 | 3014.9 | 3018.1 | 3018.1 | 3013.3 | 3018.1 | 3018.1 |
| 7.5° | 3045.2 | 3040.4 | 3045.2 | 3038.8 | 3035.6 | 3037.2 | 3038.8 | 3035.6 | 3032.4 | 3034.0 | 3034.0 |
| 10° | 3080.2 | 3075.4 | 3075.4 | 3070.6 | 3065.8 | 3062.7 | 3059.5 | 3051.5 | 3043.6 | 3042.0 | 3035.6 |
| 12.5° | 3121.6 | 3113.6 | 3108.9 | 3099.3 | 3091.3 | 3080.2 | 3070.6 | 3057.9 | 3042.0 | 3030.8 | 3019.7 |
| 15° | 3163.0 | 3150.3 | 3139.1 | 3123.2 | 3105.7 | 3086.5 | 3065.8 | 3045.2 | 3019.7 | 2997.4 | 2978.2 |
| 17.5° | 3196.4 | 3178.9 | 3158.2 | 3132.8 | 3107.3 | 3078.6 | 3048.3 | 3018.1 | 2981.4 | 2952.8 | 2930.5 |
| 20° | 3207.6 | 3182.1 | 3155.0 | 3121.6 | 3088.1 | 3048.3 | 3010.1 | 2970.3 | 2928.9 | 2898.6 | 2873.1 |
| 22.5° | 3193.3 | 3163.0 | 3129.6 | 3094.5 | 3049.9 | 3006.9 | 2962.3 | 2916.1 | 2879.5 | 2838.1 | 2814.2 |
| 25° | 3153.5 | 3116.8 | 3080.2 | 3038.8 | 2995.8 | 2948.0 | 2900.2 | 2852.4 | 2807.8 | 2785.5 | 2755.3 |
| 27.5° | 3072.2 | 3032.4 | 2992.6 | 2949.6 | 2900.2 | 2852.4 | 2803.1 | 2756.9 | 2718.7 | 2688.4 | 2670.9 |
| 30° | 2928.9 | 2882.7 | 2836.5 | 2790.3 | 2747.3 | 2697.9 | 2651.8 | 2613.5 | 2575.3 | 2551.4 | 2533.9 |
| 32.5° | 2709.1 | 2667.7 | 2621.5 | 2576.9 | 2537.1 | 2495.7 | 2457.5 | 2424.0 | 2396.9 | 2381.0 | 2368.3 |
| 35° | 2412.9 | 2371.5 | 2336.4 | 2304.6 | 2271.1 | 2253.6 | 2229.7 | 2210.6 | 2199.4 | 2193.1 | 2191.5 |
| 37.5° | 2040.2 | 2016.3 | 2005.1 | 1998.8 | 1992.4 | 1987.6 | 1990.8 | 1998.8 | 2005.1 | 2016.3 | 2029.0 |
| 40° | 1642.0 | 1662.7 | 1669.1 | 1691.4 | 1712.1 | 1739.2 | 1769.4 | 1804.5 | 1833.1 | 1869.8 | 1895.2 |
| 42.5° | 1278.9 | 1317.1 | 1361.7 | 1409.5 | 1460.5 | 1509.8 | 1570.4 | 1626.1 | 1677.1 | 1723.2 | 1763.1 |
| 45° | 982.7 | 1041.6 | 1108.5 | 1177.0 | 1245.5 | 1317.1 | 1390.4 | 1458.9 | 1519.4 | 1568.8 | 1610.2 |
| 47.5° | 766.1 | 831.4 | 917.4 | 1001.8 | 1084.6 | 1169.0 | 1250.2 | 1321.9 | 1372.9 | 1420.6 | 1457.3 |
| 50° | 606.8 | 681.7 | 775.6 | 872.8 | 963.6 | 1052.7 | 1138.7 | 1205.6 | 1256.6 | 1294.8 | 1321.9 |
| 52.5° | 469.8 | 559.0 | 654.6 | 756.5 | 853.7 | 950.8 | 1030.4 | 1092.5 | 1134.0 | 1167.4 | 1188.1 |
| 55° | 350.4 | 438.0 | 539.9 | 645.0 | 743.8 | 837.7 | 912.6 | 966.8 | 1003.4 | 1022.5 | 1033.6 |
| 57.5° | 253.2 | 332.9 | 434.8 | 539.9 | 629.1 | 718.3 | 778.8 | 828.2 | 848.9 | 860.0 | 864.8 |
| 60° | 184.8 | 258.0 | 348.8 | 439.6 | 524.0 | 595.6 | 648.2 | 681.7 | 697.6 | 703.9 | 702.3 |
| 62.5° | 135.4 | 199.1 | 277.1 | 353.6 | 422.0 | 481.0 | 522.4 | 544.7 | 552.7 | 555.8 | 551.1 |
| 65° | 103.5 | 152.9 | 219.8 | 278.7 | 331.3 | 374.3 | 404.5 | 418.9 | 423.6 | 422.0 | 418.9 |
| 67.5° | 76.5 | 114.7 | 164.1 | 208.6 | 246.9 | 280.3 | 296.2 | 309.0 | 312.1 | 307.4 | 302.6 |
| 70° | 54.2 | 84.4 | 119.4 | 149.7 | 178.4 | 197.5 | 215.0 | 216.6 | 216.6 | 215.0 | 211.8 |
| 72.5° | 38.2 | 58.9 | 81.2 | 101.9 | 119.4 | 133.8 | 140.1 | 144.9 | 143.3 | 141.7 | 138.6 |
| 75° | 25.5 | 36.6 | 58.9 | 63.7 | 79.6 | 84.4 | 90.8 | 90.8 | 92.4 | 87.6 | 87.6 |
| 77.5° | 15.9 | 25.5 | 35.0 | 41.4 | 47.8 | 54.2 | 57.3 | 57.3 | 58.9 | 57.3 | 57.3 |
| 80° | 9.5 | 15.9 | 19.1 | 28.7 | 28.7 | 33.4 | 35.0 | 36.6 | 33.4 | 38.2 | 33.4 |
| 82.5° | 6.4 | 9.5 | 14.3 | 14.3 | 17.5 | 20.7 | 20.7 | 22.3 | 22.3 | 20.7 | 20.7 |
| 85° | 4.8 | 6.4 | 8.0 | 9.5 | 9.5 | 11.1 | 9.5 | 9.5 | 11.1 | 12.7 | 11.1 |
| 87.5° | 1.6 | 3.2 | 1.6 | 3.2 | 3.2 | 6.4 | 4.8 | 4.8 | 4.8 | 6.4 | 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: P244175

CATALOG NUMBER: LD8B50D010 ER8B50835 8LBDWOLI

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 3000.5 | 3000.5 | 3000.5 | 3000.5 |
| 2.5° | 3003.7 | 3005.3 | 3003.7 | 3003.7 |
| 5° | 3018.1 | 3016.5 | 3018.1 | 3014.9 |
| 7.5° | 3029.2 | 3029.2 | 3027.6 | 3027.6 |
| 10° | 3029.2 | 3022.9 | 3022.9 | 3022.9 |
| 12.5° | 3005.3 | 2997.4 | 2992.6 | 2989.4 |
| 15° | 2963.9 | 2949.6 | 2943.2 | 2941.6 |
| 17.5° | 2909.8 | 2897.0 | 2889.1 | 2884.3 |
| 20° | 2847.7 | 2834.9 | 2825.4 | 2827.0 |
| 22.5° | 2793.5 | 2779.2 | 2772.8 | 2769.6 |
| 25° | 2739.4 | 2721.8 | 2717.1 | 2713.9 |
| 27.5° | 2651.8 | 2642.2 | 2637.4 | 2632.7 |
| 30° | 2518.0 | 2513.2 | 2505.2 | 2516.4 |
| 32.5° | 2363.5 | 2355.5 | 2349.2 | 2354.0 |
| 35° | 2193.1 | 2188.3 | 2193.1 | 2189.9 |
| 37.5° | 2037.0 | 2041.8 | 2048.2 | 2051.3 |
| 40° | 1914.4 | 1931.9 | 1938.3 | 1941.4 |
| 42.5° | 1791.7 | 1812.4 | 1825.2 | 1833.1 |
| 45° | 1640.4 | 1661.1 | 1675.5 | 1685.0 |
| 47.5° | 1484.3 | 1501.9 | 1516.2 | 1514.6 |
| 50° | 1342.6 | 1352.2 | 1358.5 | 1364.9 |
| 52.5° | 1199.2 | 1199.2 | 1200.8 | 1200.8 |
| 55° | 1036.8 | 1033.6 | 1032.0 | 1033.6 |
| 57.5° | 858.4 | 855.3 | 853.7 | 848.9 |
| 60° | 696.0 | 686.4 | 680.1 | 680.1 |
| 62.5° | 544.7 | 533.5 | 528.8 | 527.2 |
| 65° | 409.3 | 407.7 | 398.2 | 396.6 |
| 67.5° | 296.2 | 289.9 | 283.5 | 285.1 |
| 70° | 208.6 | 199.1 | 199.1 | 195.9 |
| 72.5° | 135.4 | 130.6 | 129.0 | 129.0 |
| 75° | 84.4 | 84.4 | 81.2 | 87.6 |
| 77.5° | 55.7 | 55.7 | 54.2 | 55.7 |
| 80° | 33.4 | 33.4 | 33.4 | 31.8 |
| 82.5° | 20.7 | 22.3 | 20.7 | 20.7 |
| 85° | 11.1 | 12.7 | 9.5 | 14.3 |
| 87.5° | 6.4 | 8.0 | 6.4 | 8.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)