

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: P249613

Luminaire Tested: **LD8B60D010 ER8B60930 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249613
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 ER8B60930 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5163.3 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

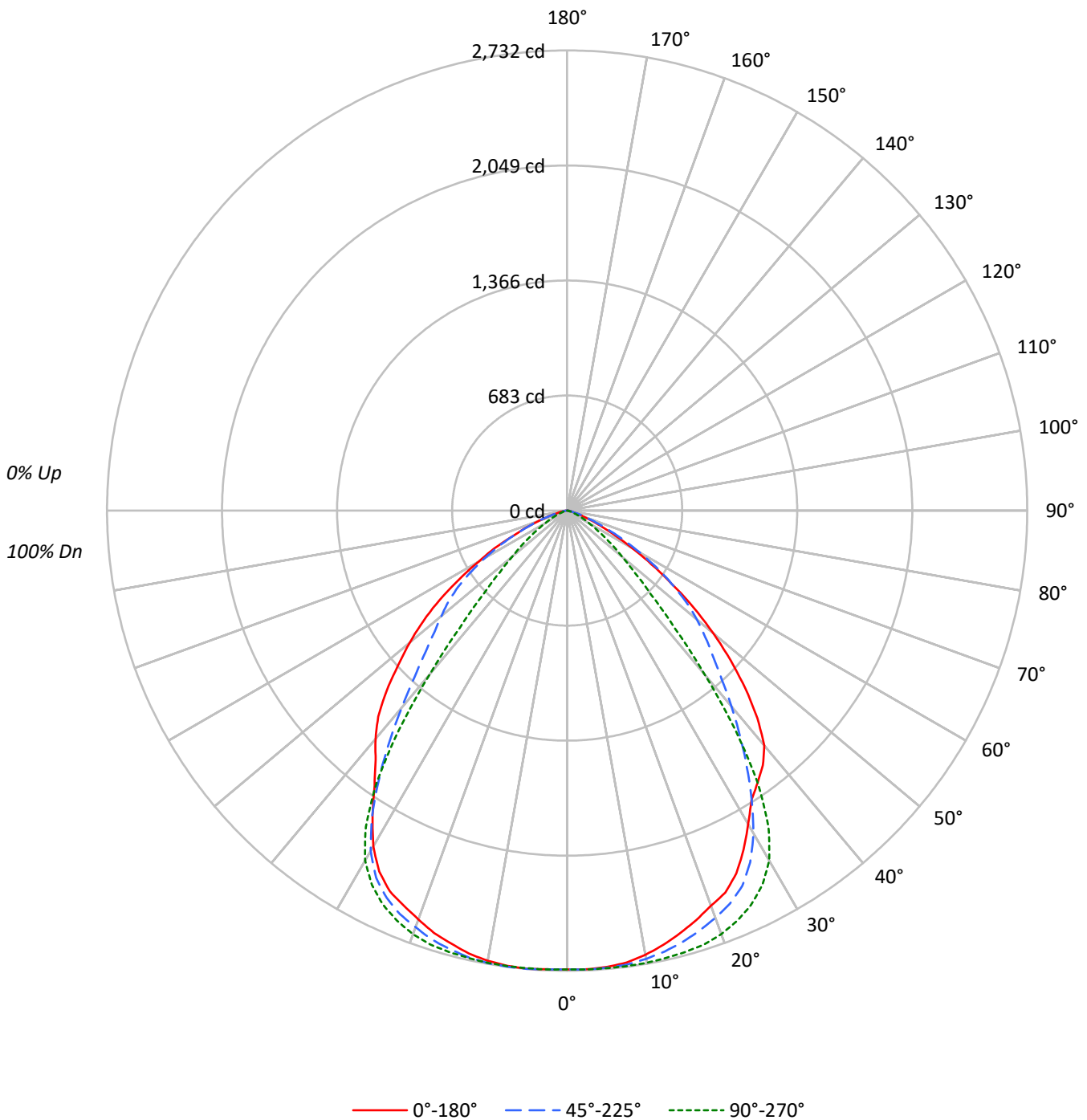
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249613

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBDW0MW

Luminous Intensity Polar Plot





TEST NUMBER: P249613

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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 | 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° | Luminaire represents a point source (luminous area is zero). | | |
| 5° | No luminance values can be calculated. | | |
| 10° | | | |
| 15° | | | |
| 20° | | | |
| 25° | | | |
| 30° | | | |
| 35° | | | |
| 40° | | | |
| 45° | | | |
| 50° | | | |
| 55° | | | |
| 60° | | | |
| 65° | | | |
| 70° | | | |
| 75° | | | |
| 80° | | | |
| 85° | | | |



TEST NUMBER: P249613

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 260.0 | 5.0 |
| 10°-20° | 755.1 | 14.6 |
| 20°-30° | 1146.0 | 22.2 |
| 30°-40° | 1203.7 | 23.3 |
| 40°-50° | 902.4 | 17.5 |
| 50°-60° | 579.0 | 11.2 |
| 60°-70° | 247.7 | 4.8 |
| 70°-80° | 58.5 | 1.1 |
| 80°-90° | 10.9 | 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° | 2161.1 | 41.9 |
| 0°-40° | 3364.8 | 65.2 |
| 0°-60° | 4846.2 | 93.9 |
| 0°-90° | 5163.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5163.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2724 | 2724 | 2724 | 2724 | 2724 | |
| 5° | 2720 | 2724 | 2727 | 2732 | 2730 | 258 |
| 15° | 2597 | 2651 | 2713 | 2695 | 2661 | 733 |
| 25° | 2376 | 2460 | 2584 | 2537 | 2493 | 1086 |
| 35° | 1971 | 1862 | 1973 | 1949 | 1993 | 1237 |
| 45° | 1497 | 1224 | 703 | 1189 | 1518 | 1147 |
| 55° | 758 | 758 | 262 | 790 | 923 | 687 |
| 65° | 228 | 269 | 83 | 347 | 352 | 244 |
| 75° | 35 | 41 | 12 | 70 | 69 | 51 |
| 85° | 12 | 7 | 6 | 12 | 16 | 12 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P249613

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2724.3 | 2724.3 | 2724.3 | 2724.3 | 2724.3 | 2724.3 | 2724.3 | 2724.3 | 2724.3 | 2724.3 | 2724.3 |
| 2.5° | 2725.7 | 2728.6 | 2727.2 | 2727.2 | 2725.7 | 2727.2 | 2727.2 | 2730.2 | 2730.2 | 2727.2 | 2725.7 |
| 5° | 2719.9 | 2722.8 | 2722.8 | 2719.9 | 2719.9 | 2727.2 | 2722.8 | 2725.7 | 2725.7 | 2724.3 | 2724.3 |
| 7.5° | 2706.8 | 2706.8 | 2712.6 | 2708.2 | 2708.2 | 2712.6 | 2711.1 | 2714.1 | 2717.0 | 2718.4 | 2718.4 |
| 10° | 2677.5 | 2680.4 | 2681.9 | 2681.9 | 2683.3 | 2687.7 | 2690.6 | 2696.5 | 2699.4 | 2702.4 | 2703.9 |
| 12.5° | 2641.0 | 2645.3 | 2646.8 | 2645.3 | 2649.7 | 2655.5 | 2662.8 | 2670.2 | 2674.6 | 2680.4 | 2684.8 |
| 15° | 2597.0 | 2597.0 | 2599.9 | 2604.4 | 2607.3 | 2616.1 | 2623.4 | 2632.1 | 2643.9 | 2651.2 | 2658.5 |
| 17.5° | 2548.8 | 2551.7 | 2556.1 | 2556.1 | 2561.9 | 2576.6 | 2581.0 | 2594.1 | 2607.3 | 2614.6 | 2629.2 |
| 20° | 2496.1 | 2499.0 | 2503.4 | 2506.4 | 2513.7 | 2525.4 | 2534.1 | 2545.9 | 2560.5 | 2573.7 | 2588.3 |
| 22.5° | 2455.2 | 2449.4 | 2452.3 | 2455.2 | 2462.5 | 2472.8 | 2483.0 | 2497.6 | 2512.3 | 2525.4 | 2540.1 |
| 25° | 2376.2 | 2377.8 | 2382.1 | 2385.0 | 2393.8 | 2402.5 | 2414.3 | 2431.8 | 2445.0 | 2459.6 | 2475.6 |
| 27.5° | 2269.5 | 2270.9 | 2278.3 | 2278.3 | 2285.6 | 2300.2 | 2307.5 | 2322.2 | 2339.8 | 2354.3 | 2373.4 |
| 30° | 2148.2 | 2151.1 | 2151.1 | 2156.9 | 2161.3 | 2168.6 | 2175.9 | 2190.5 | 2199.3 | 2212.5 | 2238.7 |
| 32.5° | 2037.0 | 2039.9 | 2038.4 | 2037.0 | 2032.6 | 2031.1 | 2029.7 | 2032.6 | 2035.5 | 2039.9 | 2050.1 |
| 35° | 1971.2 | 1963.9 | 1958.1 | 1947.8 | 1936.1 | 1921.5 | 1908.3 | 1890.8 | 1874.6 | 1861.5 | 1847.0 |
| 37.5° | 1908.3 | 1906.8 | 1898.1 | 1883.4 | 1860.1 | 1833.7 | 1803.0 | 1765.0 | 1727.0 | 1686.0 | 1646.5 |
| 40° | 1820.6 | 1816.1 | 1808.8 | 1788.4 | 1762.1 | 1729.9 | 1689.0 | 1642.2 | 1580.7 | 1517.8 | 1453.5 |
| 42.5° | 1671.4 | 1672.9 | 1664.1 | 1648.0 | 1623.2 | 1592.4 | 1550.0 | 1498.9 | 1433.1 | 1358.4 | 1275.1 |
| 45° | 1497.4 | 1497.4 | 1494.5 | 1481.3 | 1463.8 | 1438.9 | 1406.7 | 1364.4 | 1300.0 | 1223.9 | 1134.8 |
| 47.5° | 1316.1 | 1317.5 | 1313.1 | 1310.2 | 1302.9 | 1286.8 | 1263.5 | 1231.3 | 1185.9 | 1112.8 | 1023.6 |
| 50° | 1131.9 | 1131.9 | 1139.2 | 1137.7 | 1137.7 | 1131.9 | 1121.6 | 1102.6 | 1063.2 | 1004.6 | 921.2 |
| 52.5° | 947.6 | 950.5 | 954.9 | 960.7 | 968.0 | 979.8 | 968.0 | 959.2 | 934.4 | 889.1 | 817.4 |
| 55° | 757.5 | 760.4 | 767.7 | 778.0 | 786.7 | 798.5 | 801.3 | 801.3 | 788.2 | 757.5 | 703.3 |
| 57.5° | 595.1 | 590.8 | 596.6 | 605.5 | 617.1 | 628.8 | 637.5 | 647.8 | 646.4 | 625.9 | 582.0 |
| 60° | 447.5 | 449.0 | 453.3 | 462.1 | 470.8 | 481.1 | 492.8 | 501.5 | 506.0 | 495.7 | 467.9 |
| 62.5° | 326.1 | 326.1 | 331.9 | 340.7 | 345.2 | 359.7 | 367.0 | 371.4 | 375.8 | 374.3 | 356.8 |
| 65° | 228.1 | 231.0 | 234.0 | 238.3 | 242.7 | 251.6 | 255.9 | 264.7 | 267.6 | 269.0 | 255.9 |
| 67.5° | 160.9 | 156.5 | 159.4 | 162.3 | 166.7 | 172.5 | 181.4 | 181.4 | 185.7 | 185.7 | 176.9 |
| 70° | 102.3 | 102.3 | 103.8 | 108.2 | 111.1 | 112.5 | 115.6 | 118.4 | 122.9 | 121.4 | 121.4 |
| 72.5° | 68.7 | 67.3 | 68.7 | 70.2 | 71.6 | 76.0 | 76.0 | 77.5 | 80.5 | 81.9 | 76.0 |
| 75° | 35.1 | 36.5 | 39.5 | 38.0 | 42.4 | 39.5 | 40.9 | 45.3 | 43.8 | 40.9 | 40.9 |
| 77.5° | 29.3 | 29.3 | 29.3 | 27.8 | 30.7 | 30.7 | 29.3 | 32.2 | 30.7 | 30.7 | 29.3 |
| 80° | 20.5 | 22.0 | 20.5 | 18.9 | 20.5 | 18.9 | 18.9 | 18.9 | 18.9 | 18.9 | 17.5 |
| 82.5° | 16.1 | 13.1 | 14.7 | 13.1 | 14.7 | 14.7 | 13.1 | 11.7 | 11.7 | 13.1 | 11.7 |
| 85° | 11.7 | 8.7 | 10.2 | 10.2 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 7.3 | 7.3 |
| 87.5° | 7.3 | 4.4 | 4.4 | 4.4 | 5.8 | 5.8 | 5.8 | 4.4 | 5.8 | 5.8 | 2.9 |
| 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: P249613

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBDW0MW

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2724.3 | 2724.3 | 2724.3 | 2724.3 | 2724.3 | 2724.3 | 2724.3 | 2724.3 | 2724.3 | 2724.3 | 2724.3 |
| 2.5° | 2728.6 | 2727.2 | 2730.2 | 2728.6 | 2728.6 | 2727.2 | 2728.6 | 2727.2 | 2730.2 | 2724.3 | 2725.7 |
| 5° | 2728.6 | 2725.7 | 2727.2 | 2728.6 | 2730.2 | 2727.2 | 2727.2 | 2727.2 | 2730.2 | 2727.2 | 2728.6 |
| 7.5° | 2722.8 | 2721.3 | 2725.7 | 2728.6 | 2727.2 | 2725.7 | 2728.6 | 2727.2 | 2730.2 | 2728.6 | 2731.5 |
| 10° | 2711.1 | 2712.6 | 2715.5 | 2719.9 | 2721.3 | 2722.8 | 2725.7 | 2725.7 | 2730.2 | 2724.3 | 2727.2 |
| 12.5° | 2693.5 | 2699.4 | 2706.8 | 2709.7 | 2715.5 | 2715.5 | 2718.4 | 2719.9 | 2722.8 | 2721.3 | 2725.7 |
| 15° | 2671.7 | 2679.0 | 2687.7 | 2695.0 | 2702.4 | 2706.8 | 2711.1 | 2712.6 | 2717.0 | 2712.6 | 2714.1 |
| 17.5° | 2645.3 | 2654.1 | 2667.2 | 2676.1 | 2687.7 | 2692.1 | 2697.9 | 2700.8 | 2705.3 | 2702.4 | 2703.9 |
| 20° | 2608.8 | 2619.0 | 2633.6 | 2646.8 | 2654.1 | 2664.3 | 2671.7 | 2676.1 | 2679.0 | 2676.1 | 2677.5 |
| 22.5° | 2557.6 | 2572.2 | 2591.2 | 2601.4 | 2616.1 | 2624.8 | 2626.3 | 2636.6 | 2643.9 | 2636.6 | 2639.5 |
| 25° | 2497.6 | 2512.3 | 2526.8 | 2548.8 | 2561.9 | 2572.2 | 2582.4 | 2583.9 | 2591.2 | 2589.7 | 2588.3 |
| 27.5° | 2398.2 | 2417.2 | 2442.0 | 2459.6 | 2477.2 | 2493.2 | 2505.0 | 2507.8 | 2515.2 | 2512.3 | 2513.7 |
| 30° | 2262.2 | 2282.7 | 2306.1 | 2333.8 | 2358.7 | 2374.7 | 2389.4 | 2399.6 | 2406.9 | 2402.5 | 2401.1 |
| 32.5° | 2069.1 | 2089.7 | 2114.5 | 2142.2 | 2171.5 | 2194.9 | 2212.5 | 2225.6 | 2234.4 | 2231.5 | 2224.2 |
| 35° | 1848.4 | 1854.2 | 1870.3 | 1892.2 | 1917.0 | 1941.9 | 1958.1 | 1972.6 | 1982.8 | 1985.9 | 1985.9 |
| 37.5° | 1621.8 | 1602.7 | 1591.0 | 1591.0 | 1605.6 | 1615.8 | 1630.5 | 1639.2 | 1655.4 | 1661.2 | 1665.6 |
| 40° | 1402.4 | 1358.4 | 1317.5 | 1286.8 | 1266.4 | 1264.9 | 1264.9 | 1269.3 | 1283.9 | 1302.9 | 1320.4 |
| 42.5° | 1206.4 | 1136.2 | 1073.4 | 1016.3 | 975.4 | 952.0 | 941.8 | 943.2 | 954.9 | 972.5 | 1001.6 |
| 45° | 1049.9 | 962.2 | 883.2 | 814.5 | 758.9 | 722.4 | 704.9 | 703.3 | 712.2 | 732.6 | 764.7 |
| 47.5° | 928.5 | 834.9 | 745.8 | 666.8 | 606.9 | 567.3 | 546.9 | 541.1 | 546.9 | 565.9 | 603.9 |
| 50° | 827.6 | 731.1 | 639.1 | 557.1 | 492.8 | 451.9 | 432.8 | 425.5 | 432.8 | 449.0 | 487.0 |
| 52.5° | 734.0 | 634.6 | 548.4 | 469.4 | 400.6 | 365.6 | 345.2 | 340.7 | 345.2 | 364.1 | 394.8 |
| 55° | 625.9 | 541.1 | 456.2 | 377.2 | 317.4 | 282.3 | 266.1 | 261.8 | 266.1 | 283.7 | 315.9 |
| 57.5° | 519.1 | 446.0 | 371.4 | 299.8 | 248.6 | 217.9 | 203.2 | 197.4 | 207.6 | 219.4 | 257.4 |
| 60° | 419.7 | 361.2 | 298.3 | 235.4 | 193.0 | 165.2 | 153.6 | 152.1 | 155.0 | 169.6 | 196.0 |
| 62.5° | 329.0 | 280.8 | 231.0 | 179.9 | 144.7 | 133.1 | 118.4 | 117.0 | 119.9 | 128.7 | 149.2 |
| 65° | 236.9 | 206.2 | 168.2 | 131.6 | 103.8 | 87.8 | 81.9 | 83.4 | 86.3 | 92.1 | 111.1 |
| 67.5° | 165.2 | 143.3 | 117.0 | 92.1 | 71.6 | 64.3 | 58.5 | 57.1 | 58.5 | 68.7 | 78.9 |
| 70° | 111.1 | 98.0 | 78.9 | 70.2 | 49.8 | 39.5 | 40.9 | 36.5 | 42.4 | 42.4 | 51.1 |
| 72.5° | 73.1 | 64.3 | 52.7 | 40.9 | 35.1 | 27.8 | 27.8 | 26.3 | 29.3 | 30.7 | 38.0 |
| 75° | 38.0 | 29.3 | 29.3 | 20.5 | 14.7 | 7.3 | 13.1 | 11.7 | 10.2 | 11.7 | 14.7 |
| 77.5° | 26.3 | 22.0 | 20.5 | 16.1 | 14.7 | 11.7 | 11.7 | 11.7 | 11.7 | 13.1 | 14.7 |
| 80° | 16.1 | 16.1 | 11.7 | 10.2 | 8.7 | 7.3 | 8.7 | 8.7 | 8.7 | 8.7 | 10.2 |
| 82.5° | 10.2 | 8.7 | 8.7 | 7.3 | 7.3 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 8.7 |
| 85° | 8.7 | 5.8 | 5.8 | 4.4 | 5.8 | 10.2 | 4.4 | 5.8 | 5.8 | 5.8 | 4.4 |
| 87.5° | 2.9 | 4.4 | 4.4 | 4.4 | 2.9 | 1.5 | 2.9 | 4.4 | 4.4 | 7.3 | 5.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: LD8B60D010 ER8B60930 8LBDW0MW

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2724.3 | 2724.3 | 2724.3 | 2724.3 | 2724.3 | 2724.3 | 2724.3 | 2724.3 | 2724.3 | 2724.3 | 2724.3 |
| 2.5° | 2728.6 | 2730.2 | 2730.2 | 2728.6 | 2728.6 | 2725.7 | 2731.5 | 2727.2 | 2728.6 | 2734.5 | 2730.2 |
| 5° | 2731.5 | 2733.0 | 2733.0 | 2731.5 | 2731.5 | 2731.5 | 2733.0 | 2733.0 | 2731.5 | 2730.2 | 2733.0 |
| 7.5° | 2737.5 | 2736.0 | 2736.0 | 2733.0 | 2733.0 | 2730.2 | 2733.0 | 2728.6 | 2731.5 | 2728.6 | 2733.0 |
| 10° | 2730.2 | 2731.5 | 2730.2 | 2728.6 | 2728.6 | 2727.2 | 2727.2 | 2722.8 | 2724.3 | 2719.9 | 2722.8 |
| 12.5° | 2725.7 | 2724.3 | 2724.3 | 2721.3 | 2718.4 | 2715.5 | 2714.1 | 2709.7 | 2709.7 | 2699.4 | 2703.9 |
| 15° | 2714.1 | 2715.5 | 2711.1 | 2705.3 | 2702.4 | 2695.0 | 2692.1 | 2686.3 | 2680.4 | 2673.1 | 2674.6 |
| 17.5° | 2703.9 | 2699.4 | 2693.5 | 2687.7 | 2676.1 | 2670.2 | 2664.3 | 2655.5 | 2652.6 | 2643.9 | 2641.0 |
| 20° | 2673.1 | 2670.2 | 2662.8 | 2652.6 | 2645.3 | 2632.1 | 2626.3 | 2617.5 | 2610.2 | 2601.4 | 2597.0 |
| 22.5° | 2633.6 | 2630.7 | 2621.9 | 2611.7 | 2599.9 | 2594.1 | 2588.3 | 2572.2 | 2564.8 | 2556.1 | 2554.6 |
| 25° | 2583.9 | 2579.5 | 2570.8 | 2559.0 | 2553.2 | 2537.2 | 2531.2 | 2519.6 | 2516.6 | 2507.8 | 2506.4 |
| 27.5° | 2507.8 | 2502.0 | 2491.8 | 2477.2 | 2466.9 | 2456.7 | 2450.8 | 2442.0 | 2439.2 | 2430.3 | 2428.9 |
| 30° | 2393.8 | 2386.5 | 2366.0 | 2360.2 | 2342.6 | 2332.4 | 2332.4 | 2320.7 | 2322.2 | 2316.3 | 2316.3 |
| 32.5° | 2214.0 | 2202.2 | 2186.2 | 2174.4 | 2162.7 | 2156.9 | 2156.9 | 2152.5 | 2155.5 | 2155.5 | 2158.4 |
| 35° | 1975.5 | 1959.5 | 1950.7 | 1943.4 | 1943.4 | 1949.2 | 1966.8 | 1971.2 | 1980.0 | 1987.3 | 1993.1 |
| 37.5° | 1670.0 | 1668.5 | 1678.7 | 1687.6 | 1709.4 | 1734.3 | 1765.0 | 1791.4 | 1816.1 | 1833.7 | 1851.2 |
| 40° | 1339.5 | 1376.0 | 1405.3 | 1446.2 | 1479.8 | 1528.1 | 1583.6 | 1629.0 | 1671.4 | 1702.1 | 1734.3 |
| 42.5° | 1045.6 | 1092.3 | 1153.7 | 1213.7 | 1273.7 | 1339.5 | 1412.6 | 1475.5 | 1531.1 | 1573.4 | 1607.1 |
| 45° | 814.5 | 878.9 | 953.4 | 1029.4 | 1107.0 | 1188.8 | 1264.9 | 1329.3 | 1387.7 | 1431.6 | 1465.3 |
| 47.5° | 656.6 | 726.7 | 811.6 | 894.9 | 982.7 | 1069.0 | 1153.7 | 1209.3 | 1257.5 | 1292.6 | 1323.5 |
| 50° | 542.5 | 617.1 | 706.3 | 801.3 | 889.1 | 975.4 | 1048.5 | 1102.6 | 1142.1 | 1172.8 | 1191.7 |
| 52.5° | 453.3 | 532.3 | 627.3 | 722.4 | 810.1 | 889.1 | 954.9 | 995.8 | 1028.0 | 1049.9 | 1067.4 |
| 55° | 374.3 | 450.4 | 539.6 | 628.8 | 715.1 | 789.6 | 843.8 | 874.5 | 899.3 | 912.5 | 922.7 |
| 57.5° | 305.6 | 375.8 | 457.7 | 539.6 | 614.2 | 675.6 | 718.0 | 748.7 | 760.4 | 770.7 | 769.1 |
| 60° | 239.8 | 305.6 | 380.2 | 450.4 | 514.8 | 564.4 | 595.1 | 612.7 | 621.5 | 625.9 | 622.9 |
| 62.5° | 188.7 | 248.6 | 305.6 | 367.0 | 413.9 | 456.2 | 485.5 | 485.5 | 489.9 | 491.3 | 495.7 |
| 65° | 140.3 | 185.7 | 235.4 | 280.8 | 318.8 | 346.6 | 362.6 | 367.0 | 373.0 | 371.4 | 368.5 |
| 67.5° | 103.8 | 137.4 | 174.0 | 207.6 | 234.0 | 251.6 | 263.2 | 273.4 | 272.0 | 269.0 | 267.6 |
| 70° | 71.6 | 93.6 | 125.8 | 146.2 | 165.2 | 182.8 | 185.7 | 187.2 | 188.7 | 190.1 | 187.2 |
| 72.5° | 49.8 | 65.8 | 83.4 | 100.9 | 112.5 | 119.9 | 127.2 | 128.7 | 128.7 | 128.7 | 127.2 |
| 75° | 24.9 | 33.6 | 49.8 | 57.1 | 67.3 | 70.2 | 76.0 | 76.0 | 80.5 | 74.5 | 73.1 |
| 77.5° | 22.0 | 26.3 | 35.1 | 40.9 | 45.3 | 49.8 | 51.1 | 55.6 | 54.1 | 51.1 | 52.7 |
| 80° | 13.1 | 16.1 | 22.0 | 24.9 | 30.7 | 32.2 | 33.6 | 35.1 | 33.6 | 35.1 | 35.1 |
| 82.5° | 10.2 | 11.7 | 14.7 | 14.7 | 18.9 | 18.9 | 20.5 | 20.5 | 22.0 | 22.0 | 22.0 |
| 85° | 5.8 | 10.2 | 8.7 | 17.5 | 11.7 | 11.7 | 14.7 | 17.5 | 14.7 | 14.7 | 17.5 |
| 87.5° | 5.8 | 5.8 | 4.4 | 5.8 | 5.8 | 5.8 | 7.3 | 8.7 | 8.7 | 10.2 | 8.7 |
| 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: P249613

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBDW0MW

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 2724.3 | 2724.3 | 2724.3 | 2724.3 |
| 2.5° | 2728.6 | 2731.5 | 2727.2 | 2725.7 |
| 5° | 2733.0 | 2733.0 | 2730.2 | 2730.2 |
| 7.5° | 2733.0 | 2733.0 | 2728.6 | 2725.7 |
| 10° | 2721.3 | 2721.3 | 2717.0 | 2714.1 |
| 12.5° | 2699.4 | 2699.4 | 2697.9 | 2693.5 |
| 15° | 2671.7 | 2671.7 | 2665.7 | 2661.4 |
| 17.5° | 2633.6 | 2636.6 | 2629.2 | 2629.2 |
| 20° | 2592.6 | 2591.2 | 2585.4 | 2582.4 |
| 22.5° | 2550.3 | 2547.4 | 2545.9 | 2537.2 |
| 25° | 2505.0 | 2502.0 | 2497.6 | 2493.2 |
| 27.5° | 2427.4 | 2426.0 | 2421.6 | 2415.8 |
| 30° | 2308.9 | 2307.5 | 2301.6 | 2301.6 |
| 32.5° | 2155.5 | 2154.0 | 2148.2 | 2149.6 |
| 35° | 1996.1 | 2001.9 | 1999.0 | 1993.1 |
| 37.5° | 1863.0 | 1867.4 | 1870.3 | 1867.4 |
| 40° | 1751.8 | 1765.0 | 1766.5 | 1769.4 |
| 42.5° | 1633.4 | 1650.9 | 1656.8 | 1659.8 |
| 45° | 1491.5 | 1507.6 | 1520.7 | 1517.8 |
| 47.5° | 1346.8 | 1358.4 | 1370.2 | 1361.5 |
| 50° | 1207.9 | 1215.2 | 1219.5 | 1219.5 |
| 52.5° | 1076.3 | 1076.3 | 1074.8 | 1076.3 |
| 55° | 925.6 | 925.6 | 919.8 | 922.7 |
| 57.5° | 767.7 | 770.7 | 766.2 | 758.9 |
| 60° | 621.5 | 614.2 | 611.3 | 606.9 |
| 62.5° | 484.0 | 484.0 | 473.8 | 487.0 |
| 65° | 362.6 | 358.3 | 353.9 | 352.4 |
| 67.5° | 263.2 | 261.8 | 257.4 | 255.9 |
| 70° | 185.7 | 179.9 | 178.4 | 175.4 |
| 72.5° | 124.3 | 124.3 | 121.4 | 121.4 |
| 75° | 76.0 | 68.7 | 67.3 | 68.7 |
| 77.5° | 52.7 | 51.1 | 51.1 | 49.8 |
| 80° | 35.1 | 33.6 | 36.5 | 32.2 |
| 82.5° | 22.0 | 23.4 | 22.0 | 23.4 |
| 85° | 14.7 | 17.5 | 16.1 | 16.1 |
| 87.5° | 8.7 | 8.7 | 8.7 | 8.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)