

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: P244211

Luminaire Tested: **LSR8B50D010 EC8B50940 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244211
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: LSR8B50D010 EC8B50940 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5152.0 lumens
Efficiency: N/A
Efficacy: 97.2 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

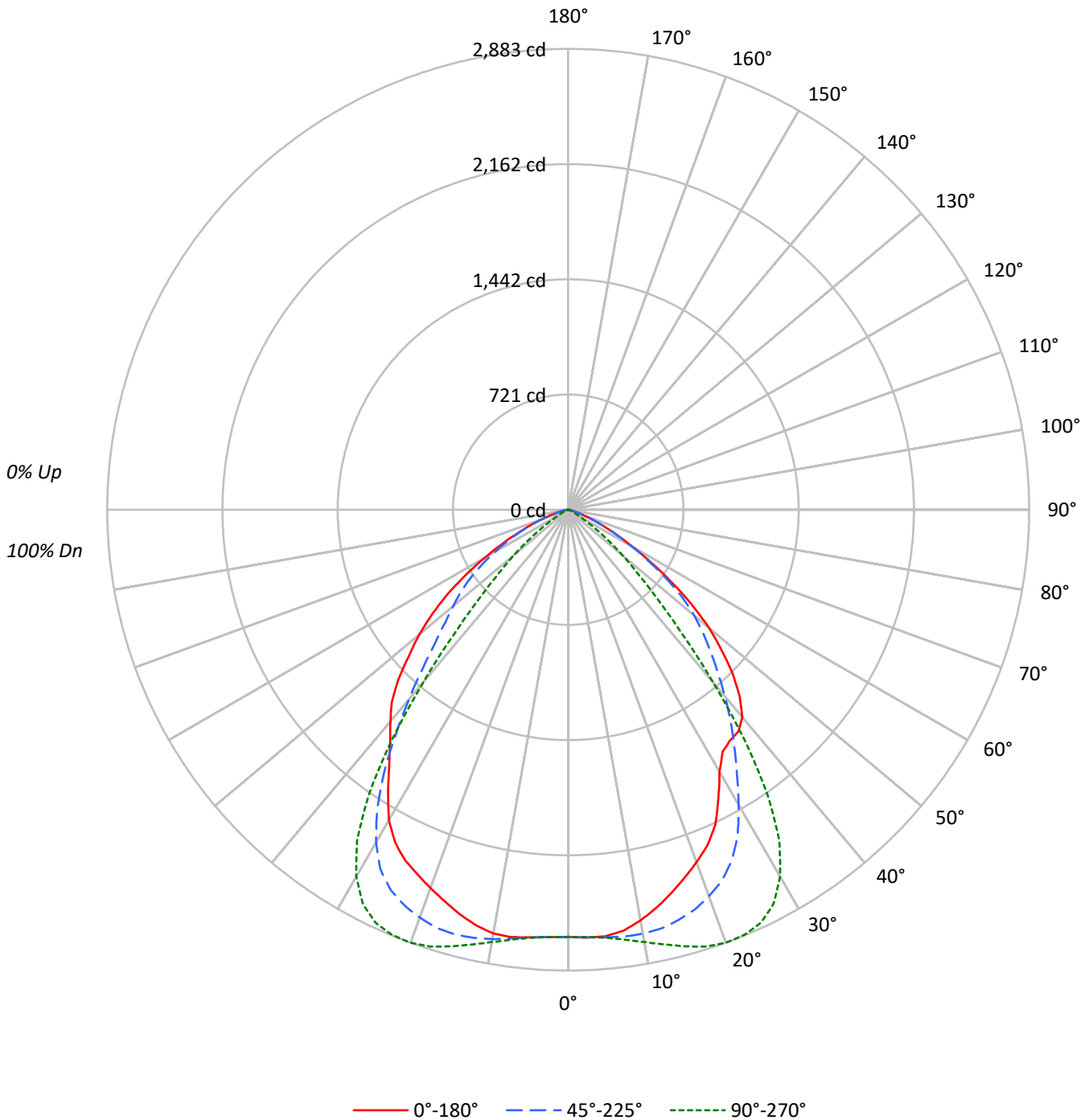
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244211

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Luminous Intensity Polar Plot





TEST NUMBER: P244211

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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 | 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° | 82416 | 82416 | 82416 |
| 5° | 82907 | 83214 | 83124 |
| 10° | 81687 | 85998 | 84311 |
| 15° | 79299 | 90259 | 83648 |
| 20° | 76998 | 94593 | 82632 |
| 25° | 74043 | 97016 | 82246 |
| 30° | 67382 | 94358 | 79809 |
| 35° | 66378 | 81759 | 73429 |
| 40° | 68182 | 56706 | 69611 |
| 45° | 63473 | 34272 | 65453 |
| 50° | 55058 | 21166 | 58325 |
| 55° | 42251 | 11059 | 49498 |
| 60° | 28783 | 4459 | 37355 |
| 65° | 17906 | 2277 | 25771 |
| 70° | 9719 | 1406 | 15733 |
| 75° | 5075 | 679 | 9293 |
| 80° | 2273 | 764 | 5043 |
| 85° | 1521 | 495 | 4529 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 257.0 | 5.0 |
| 10°-20° | 761.4 | 14.8 |
| 20°-30° | 1161.6 | 22.5 |
| 30°-40° | 1212.2 | 23.5 |
| 40°-50° | 910.5 | 17.7 |
| 50°-60° | 560.2 | 10.9 |
| 60°-70° | 228.0 | 4.4 |
| 70°-80° | 53.7 | 1.0 |
| 80°-90° | 7.4 | 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° | 2180.1 | 42.3 |
| 0°-40° | 3392.2 | 65.8 |
| 0°-60° | 4862.9 | 94.4 |
| 0°-90° | 5152.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5152.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2673 | 2673 | 2673 | 2673 | 2673 | |
| 5° | 2678 | 2685 | 2688 | 2685 | 2685 | 253 |
| 15° | 2484 | 2658 | 2827 | 2749 | 2620 | 700 |
| 25° | 2176 | 2420 | 2851 | 2626 | 2417 | 989 |
| 35° | 1763 | 1813 | 2172 | 2007 | 1951 | 1113 |
| 45° | 1456 | 1260 | 786 | 1173 | 1501 | 1111 |
| 55° | 786 | 746 | 206 | 746 | 921 | 706 |
| 65° | 245 | 248 | 31 | 333 | 353 | 256 |
| 75° | 43 | 43 | 6 | 75 | 78 | 51 |
| 85° | 4 | 4 | 1 | 10 | 13 | 6 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P244211

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2672.7 | 2672.7 | 2672.7 | 2672.7 | 2672.7 | 2672.7 | 2672.7 | 2672.7 | 2672.7 | 2672.7 | 2672.7 |
| 2.5° | 2679.8 | 2675.5 | 2679.8 | 2679.8 | 2681.2 | 2678.4 | 2679.8 | 2681.2 | 2678.4 | 2678.4 | 2678.4 |
| 5° | 2678.4 | 2675.5 | 2678.4 | 2676.9 | 2679.8 | 2679.8 | 2682.6 | 2682.6 | 2685.4 | 2685.4 | 2689.7 |
| 7.5° | 2655.7 | 2650.0 | 2655.7 | 2659.9 | 2662.7 | 2668.4 | 2675.5 | 2681.2 | 2686.9 | 2692.6 | 2699.6 |
| 10° | 2608.8 | 2608.8 | 2613.1 | 2621.6 | 2630.1 | 2640.0 | 2652.8 | 2667.0 | 2681.2 | 2694.0 | 2706.7 |
| 12.5° | 2550.7 | 2546.4 | 2554.9 | 2566.3 | 2579.1 | 2594.7 | 2614.5 | 2635.8 | 2658.5 | 2684.0 | 2703.9 |
| 15° | 2484.0 | 2479.7 | 2489.7 | 2501.0 | 2516.6 | 2539.3 | 2563.5 | 2591.8 | 2624.5 | 2658.5 | 2691.1 |
| 17.5° | 2415.9 | 2414.5 | 2424.4 | 2440.0 | 2452.8 | 2476.9 | 2508.1 | 2542.2 | 2579.1 | 2624.5 | 2667.0 |
| 20° | 2346.4 | 2345.0 | 2354.9 | 2367.7 | 2384.7 | 2407.4 | 2438.6 | 2478.3 | 2522.3 | 2573.4 | 2623.0 |
| 22.5° | 2274.0 | 2275.5 | 2284.0 | 2298.2 | 2312.4 | 2336.5 | 2369.1 | 2408.8 | 2457.0 | 2512.4 | 2567.7 |
| 25° | 2176.2 | 2169.1 | 2180.4 | 2194.6 | 2218.7 | 2238.6 | 2269.8 | 2312.4 | 2362.0 | 2420.2 | 2485.4 |
| 27.5° | 2034.3 | 2032.9 | 2042.8 | 2055.6 | 2076.9 | 2101.0 | 2135.0 | 2179.0 | 2231.5 | 2295.3 | 2359.2 |
| 30° | 1892.4 | 1895.3 | 1899.5 | 1912.3 | 1926.5 | 1950.6 | 1984.7 | 2021.6 | 2071.2 | 2132.2 | 2200.3 |
| 32.5° | 1796.0 | 1796.0 | 1801.7 | 1810.2 | 1820.1 | 1832.9 | 1857.0 | 1883.9 | 1922.2 | 1964.8 | 2014.4 |
| 35° | 1763.3 | 1757.7 | 1763.3 | 1764.8 | 1766.2 | 1769.0 | 1773.3 | 1781.8 | 1794.5 | 1813.0 | 1831.4 |
| 37.5° | 1749.2 | 1744.9 | 1744.9 | 1739.2 | 1732.1 | 1723.6 | 1712.3 | 1699.5 | 1685.3 | 1666.9 | 1652.7 |
| 40° | 1693.8 | 1691.0 | 1688.2 | 1682.5 | 1666.9 | 1649.9 | 1631.4 | 1601.6 | 1569.0 | 1523.6 | 1478.2 |
| 42.5° | 1587.5 | 1584.6 | 1583.2 | 1571.8 | 1557.6 | 1537.8 | 1516.5 | 1485.3 | 1444.2 | 1386.0 | 1320.7 |
| 45° | 1455.5 | 1449.8 | 1445.6 | 1435.7 | 1425.7 | 1408.7 | 1388.8 | 1360.4 | 1319.3 | 1259.7 | 1181.7 |
| 47.5° | 1302.3 | 1299.5 | 1298.0 | 1293.8 | 1283.9 | 1273.9 | 1261.2 | 1238.5 | 1201.6 | 1144.8 | 1064.0 |
| 50° | 1147.7 | 1142.0 | 1144.8 | 1143.4 | 1139.2 | 1132.1 | 1123.5 | 1108.0 | 1079.6 | 1028.5 | 954.7 |
| 52.5° | 970.3 | 970.3 | 968.9 | 973.2 | 974.6 | 973.2 | 974.6 | 957.6 | 933.5 | 895.1 | 832.7 |
| 55° | 785.9 | 785.9 | 790.2 | 795.9 | 801.5 | 802.9 | 801.5 | 794.4 | 777.4 | 746.2 | 690.9 |
| 57.5° | 612.8 | 610.0 | 618.5 | 627.0 | 632.7 | 638.4 | 634.1 | 628.5 | 618.5 | 593.0 | 550.4 |
| 60° | 466.7 | 466.7 | 472.4 | 478.1 | 483.7 | 489.4 | 488.0 | 486.6 | 478.1 | 461.0 | 427.0 |
| 62.5° | 343.3 | 344.7 | 344.7 | 349.0 | 354.6 | 360.3 | 364.6 | 360.3 | 356.1 | 344.7 | 322.0 |
| 65° | 245.4 | 244.0 | 245.4 | 249.7 | 253.9 | 259.6 | 262.5 | 261.0 | 256.8 | 248.3 | 231.2 |
| 67.5° | 164.6 | 163.1 | 168.8 | 170.2 | 173.1 | 178.8 | 177.3 | 178.8 | 177.3 | 170.2 | 156.1 |
| 70° | 107.8 | 105.0 | 107.8 | 106.4 | 110.7 | 112.1 | 114.9 | 116.3 | 114.9 | 110.7 | 106.4 |
| 72.5° | 66.7 | 65.3 | 66.7 | 68.1 | 69.5 | 70.9 | 73.8 | 73.8 | 72.3 | 69.5 | 63.8 |
| 75° | 42.6 | 38.3 | 39.7 | 36.9 | 39.7 | 39.7 | 42.6 | 44.0 | 42.6 | 42.6 | 39.7 |
| 77.5° | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 27.0 | 28.4 | 25.5 | 24.1 |
| 80° | 12.8 | 12.8 | 14.2 | 14.2 | 14.2 | 15.6 | 14.2 | 14.2 | 14.2 | 15.6 | 11.4 |
| 82.5° | 9.9 | 8.5 | 8.5 | 8.5 | 9.9 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 85° | 4.3 | 5.7 | 4.3 | 2.8 | 4.3 | 4.3 | 5.7 | 4.3 | 4.3 | 4.3 | 5.7 |
| 87.5° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 1.4 | 0.0 | 1.4 | 1.4 | 2.8 | 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: P244211

CATALOG NUMBER: LSR8B50D010 EC8B50940 8LBDW0LI

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2672.7 | 2672.7 | 2672.7 | 2672.7 | 2672.7 | 2672.7 | 2672.7 | 2672.7 | 2672.7 | 2672.7 | 2672.7 |
| 2.5° | 2679.8 | 2676.9 | 2676.9 | 2675.5 | 2678.4 | 2675.5 | 2676.9 | 2675.5 | 2675.5 | 2678.4 | 2675.5 |
| 5° | 2689.7 | 2691.1 | 2688.3 | 2686.9 | 2691.1 | 2691.1 | 2691.1 | 2688.3 | 2688.3 | 2689.7 | 2688.3 |
| 7.5° | 2703.9 | 2706.7 | 2708.2 | 2709.6 | 2712.4 | 2713.8 | 2713.8 | 2712.4 | 2711.0 | 2715.3 | 2709.6 |
| 10° | 2719.5 | 2723.8 | 2732.3 | 2736.5 | 2743.6 | 2743.6 | 2746.5 | 2746.5 | 2743.6 | 2746.5 | 2745.0 |
| 12.5° | 2713.8 | 2739.4 | 2753.6 | 2763.5 | 2773.4 | 2781.9 | 2784.8 | 2786.2 | 2784.8 | 2790.5 | 2784.8 |
| 15° | 2723.8 | 2745.0 | 2767.7 | 2784.8 | 2803.2 | 2813.1 | 2816.0 | 2827.3 | 2830.2 | 2831.6 | 2823.1 |
| 17.5° | 2708.2 | 2746.5 | 2770.6 | 2796.1 | 2823.1 | 2841.5 | 2858.5 | 2865.6 | 2867.1 | 2869.9 | 2858.5 |
| 20° | 2672.7 | 2715.3 | 2752.1 | 2789.0 | 2820.2 | 2848.6 | 2862.8 | 2882.6 | 2877.0 | 2888.3 | 2872.7 |
| 22.5° | 2624.5 | 2672.7 | 2719.5 | 2767.7 | 2800.4 | 2834.4 | 2864.2 | 2878.4 | 2885.5 | 2885.5 | 2868.4 |
| 25° | 2547.9 | 2604.6 | 2655.7 | 2705.3 | 2755.0 | 2796.1 | 2830.2 | 2851.4 | 2855.7 | 2854.3 | 2834.4 |
| 27.5° | 2428.7 | 2489.7 | 2549.3 | 2606.0 | 2667.0 | 2715.3 | 2755.0 | 2780.5 | 2787.6 | 2787.6 | 2766.3 |
| 30° | 2264.1 | 2329.4 | 2387.6 | 2455.6 | 2518.1 | 2572.0 | 2627.3 | 2650.0 | 2662.7 | 2662.7 | 2638.7 |
| 32.5° | 2068.3 | 2123.7 | 2177.6 | 2244.3 | 2312.4 | 2373.4 | 2425.8 | 2457.0 | 2472.7 | 2471.2 | 2450.0 |
| 35° | 1855.6 | 1882.5 | 1923.7 | 1973.3 | 2034.3 | 2091.1 | 2142.1 | 2171.9 | 2198.9 | 2197.4 | 2177.6 |
| 37.5° | 1642.8 | 1635.7 | 1639.9 | 1658.4 | 1696.7 | 1736.4 | 1776.1 | 1804.5 | 1827.2 | 1837.1 | 1832.9 |
| 40° | 1434.2 | 1397.3 | 1361.9 | 1349.1 | 1351.9 | 1366.1 | 1387.4 | 1408.7 | 1434.2 | 1447.0 | 1452.7 |
| 42.5° | 1247.0 | 1184.6 | 1122.1 | 1075.3 | 1048.4 | 1039.9 | 1049.8 | 1056.9 | 1072.5 | 1090.9 | 1109.4 |
| 45° | 1096.6 | 1012.9 | 930.6 | 858.3 | 812.9 | 785.9 | 780.2 | 785.9 | 794.4 | 812.9 | 837.0 |
| 47.5° | 973.2 | 875.3 | 783.1 | 702.2 | 635.5 | 600.1 | 590.2 | 587.3 | 595.8 | 612.8 | 645.5 |
| 50° | 863.9 | 766.0 | 663.9 | 570.3 | 500.8 | 461.0 | 446.9 | 441.2 | 451.1 | 463.9 | 493.7 |
| 52.5° | 744.8 | 648.3 | 543.3 | 452.5 | 380.2 | 339.1 | 323.4 | 314.9 | 320.6 | 337.6 | 367.4 |
| 55° | 615.7 | 526.3 | 431.3 | 337.6 | 268.1 | 229.8 | 211.4 | 205.7 | 211.4 | 229.8 | 259.6 |
| 57.5° | 486.6 | 411.4 | 331.9 | 244.0 | 181.6 | 143.3 | 124.8 | 119.2 | 134.8 | 141.9 | 173.1 |
| 60° | 380.2 | 319.2 | 251.1 | 178.8 | 124.8 | 95.0 | 76.6 | 72.3 | 79.5 | 92.2 | 117.7 |
| 62.5° | 285.2 | 246.8 | 192.9 | 127.7 | 92.2 | 61.0 | 51.1 | 46.8 | 51.1 | 61.0 | 80.9 |
| 65° | 207.1 | 177.3 | 134.8 | 93.6 | 62.4 | 45.4 | 34.1 | 31.2 | 35.5 | 42.6 | 59.6 |
| 67.5° | 141.9 | 119.2 | 93.6 | 65.3 | 42.6 | 28.4 | 24.1 | 24.1 | 25.5 | 31.2 | 44.0 |
| 70° | 92.2 | 78.0 | 59.6 | 42.6 | 28.4 | 21.3 | 18.4 | 15.6 | 18.4 | 22.7 | 29.8 |
| 72.5° | 58.2 | 49.6 | 38.3 | 29.8 | 21.3 | 15.6 | 12.8 | 11.4 | 14.2 | 17.0 | 22.7 |
| 75° | 35.5 | 27.0 | 19.9 | 15.6 | 11.4 | 11.4 | 11.4 | 5.7 | 7.1 | 11.4 | 14.2 |
| 77.5° | 21.3 | 18.4 | 15.6 | 12.8 | 9.9 | 5.7 | 5.7 | 5.7 | 7.1 | 8.5 | 12.8 |
| 80° | 11.4 | 9.9 | 7.1 | 7.1 | 5.7 | 4.3 | 5.7 | 4.3 | 2.8 | 7.1 | 8.5 |
| 82.5° | 7.1 | 5.7 | 5.7 | 5.7 | 7.1 | 2.8 | 4.3 | 2.8 | 4.3 | 5.7 | 4.3 |
| 85° | 4.3 | 4.3 | 4.3 | 2.8 | 7.1 | 2.8 | 2.8 | 1.4 | 1.4 | 2.8 | 2.8 |
| 87.5° | 0.0 | 1.4 | 1.4 | 0.0 | 1.4 | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 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: P244211

CATALOG NUMBER: LSR8B50D010 EC8B50940 8LBDW0LI

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2672.7 | 2672.7 | 2672.7 | 2672.7 | 2672.7 | 2672.7 | 2672.7 | 2672.7 | 2672.7 | 2672.7 | 2672.7 |
| 2.5° | 2676.9 | 2675.5 | 2676.9 | 2675.5 | 2675.5 | 2675.5 | 2676.9 | 2676.9 | 2675.5 | 2675.5 | 2678.4 |
| 5° | 2688.3 | 2688.3 | 2688.3 | 2686.9 | 2685.4 | 2685.4 | 2688.3 | 2688.3 | 2684.0 | 2688.3 | 2688.3 |
| 7.5° | 2712.4 | 2708.2 | 2712.4 | 2706.7 | 2703.9 | 2705.3 | 2706.7 | 2703.9 | 2701.1 | 2702.5 | 2702.5 |
| 10° | 2743.6 | 2739.4 | 2739.4 | 2735.1 | 2730.9 | 2728.0 | 2725.2 | 2718.1 | 2711.0 | 2709.6 | 2703.9 |
| 12.5° | 2780.5 | 2773.4 | 2769.2 | 2760.6 | 2753.6 | 2743.6 | 2735.1 | 2723.8 | 2709.6 | 2699.6 | 2689.7 |
| 15° | 2817.4 | 2806.0 | 2796.1 | 2781.9 | 2766.3 | 2749.3 | 2730.9 | 2712.4 | 2689.7 | 2669.9 | 2652.8 |
| 17.5° | 2847.2 | 2831.6 | 2813.1 | 2790.5 | 2767.7 | 2742.2 | 2715.3 | 2688.3 | 2655.7 | 2630.1 | 2610.3 |
| 20° | 2857.1 | 2834.4 | 2810.3 | 2780.5 | 2750.7 | 2715.3 | 2681.2 | 2645.7 | 2608.8 | 2581.9 | 2559.2 |
| 22.5° | 2844.4 | 2817.4 | 2787.6 | 2756.4 | 2716.7 | 2678.4 | 2638.7 | 2597.5 | 2564.9 | 2528.0 | 2506.7 |
| 25° | 2808.9 | 2776.3 | 2743.6 | 2706.7 | 2668.4 | 2625.9 | 2583.3 | 2540.8 | 2501.0 | 2481.2 | 2454.2 |
| 27.5° | 2736.5 | 2701.1 | 2665.6 | 2627.3 | 2583.3 | 2540.8 | 2496.8 | 2455.6 | 2421.6 | 2394.6 | 2379.1 |
| 30° | 2608.8 | 2567.7 | 2526.6 | 2485.4 | 2447.1 | 2403.1 | 2362.0 | 2328.0 | 2293.9 | 2272.6 | 2257.0 |
| 32.5° | 2413.1 | 2376.2 | 2335.1 | 2295.3 | 2259.9 | 2223.0 | 2188.9 | 2159.2 | 2135.0 | 2120.8 | 2109.5 |
| 35° | 2149.2 | 2112.3 | 2081.1 | 2052.8 | 2022.9 | 2007.4 | 1986.1 | 1969.0 | 1959.1 | 1953.5 | 1952.0 |
| 37.5° | 1817.2 | 1796.0 | 1786.0 | 1780.4 | 1774.7 | 1770.5 | 1773.3 | 1780.4 | 1786.0 | 1796.0 | 1807.3 |
| 40° | 1462.6 | 1481.0 | 1486.7 | 1506.6 | 1525.0 | 1549.1 | 1576.1 | 1607.3 | 1632.8 | 1665.5 | 1688.2 |
| 42.5° | 1139.2 | 1173.2 | 1212.9 | 1255.5 | 1300.9 | 1344.9 | 1398.8 | 1448.4 | 1493.8 | 1534.9 | 1570.4 |
| 45° | 875.3 | 927.8 | 987.4 | 1048.4 | 1109.4 | 1173.2 | 1238.5 | 1299.5 | 1353.4 | 1397.3 | 1434.2 |
| 47.5° | 682.4 | 740.5 | 817.1 | 892.3 | 966.1 | 1041.3 | 1113.6 | 1177.4 | 1222.8 | 1265.4 | 1298.0 |
| 50° | 540.5 | 607.2 | 690.9 | 777.4 | 858.3 | 937.7 | 1014.3 | 1073.9 | 1119.3 | 1153.4 | 1177.4 |
| 52.5° | 418.5 | 497.9 | 583.0 | 673.9 | 760.4 | 846.9 | 917.8 | 973.2 | 1010.1 | 1039.9 | 1058.3 |
| 55° | 312.1 | 390.1 | 480.9 | 574.5 | 662.5 | 746.2 | 812.9 | 861.1 | 893.7 | 910.8 | 920.7 |
| 57.5° | 225.6 | 296.5 | 387.3 | 480.9 | 560.3 | 639.8 | 693.7 | 737.7 | 756.1 | 766.0 | 770.3 |
| 60° | 164.6 | 229.8 | 310.7 | 391.5 | 466.7 | 530.6 | 577.4 | 607.2 | 621.4 | 627.0 | 625.6 |
| 62.5° | 120.6 | 177.3 | 246.8 | 314.9 | 375.9 | 428.4 | 465.3 | 485.2 | 492.3 | 495.1 | 490.9 |
| 65° | 92.2 | 136.2 | 195.8 | 248.3 | 295.1 | 333.4 | 360.3 | 373.1 | 377.3 | 375.9 | 373.1 |
| 67.5° | 68.1 | 102.2 | 146.1 | 185.8 | 219.9 | 249.7 | 263.9 | 275.2 | 278.0 | 273.8 | 269.5 |
| 70° | 48.2 | 75.2 | 106.4 | 133.4 | 158.9 | 175.9 | 191.5 | 192.9 | 192.9 | 191.5 | 188.7 |
| 72.5° | 34.1 | 52.5 | 72.3 | 90.8 | 106.4 | 119.2 | 124.8 | 129.1 | 127.7 | 126.2 | 123.4 |
| 75° | 22.7 | 32.6 | 52.5 | 56.8 | 70.9 | 75.2 | 80.9 | 80.9 | 82.3 | 78.0 | 78.0 |
| 77.5° | 14.2 | 22.7 | 31.2 | 36.9 | 42.6 | 48.2 | 51.1 | 51.1 | 52.5 | 51.1 | 51.1 |
| 80° | 8.5 | 14.2 | 17.0 | 25.5 | 25.5 | 29.8 | 31.2 | 32.6 | 29.8 | 34.1 | 29.8 |
| 82.5° | 5.7 | 8.5 | 12.8 | 12.8 | 15.6 | 18.4 | 18.4 | 19.9 | 19.9 | 18.4 | 18.4 |
| 85° | 4.3 | 5.7 | 7.1 | 8.5 | 8.5 | 9.9 | 8.5 | 8.5 | 9.9 | 11.4 | 9.9 |
| 87.5° | 1.4 | 2.8 | 1.4 | 2.8 | 2.8 | 5.7 | 4.3 | 4.3 | 4.3 | 5.7 | 5.7 |
| 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: P244211

CATALOG NUMBER: LSR8B50D010 EC8B50940 8LBDW0LI

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 2672.7 | 2672.7 | 2672.7 | 2672.7 |
| 2.5° | 2675.5 | 2676.9 | 2675.5 | 2675.5 |
| 5° | 2688.3 | 2686.9 | 2688.3 | 2685.4 |
| 7.5° | 2698.2 | 2698.2 | 2696.8 | 2696.8 |
| 10° | 2698.2 | 2692.6 | 2692.6 | 2692.6 |
| 12.5° | 2676.9 | 2669.9 | 2665.6 | 2662.7 |
| 15° | 2640.0 | 2627.3 | 2621.6 | 2620.2 |
| 17.5° | 2591.8 | 2580.5 | 2573.4 | 2569.1 |
| 20° | 2536.5 | 2525.2 | 2516.6 | 2518.1 |
| 22.5° | 2488.3 | 2475.5 | 2469.8 | 2467.0 |
| 25° | 2440.0 | 2424.4 | 2420.2 | 2417.3 |
| 27.5° | 2362.0 | 2353.5 | 2349.2 | 2345.0 |
| 30° | 2242.8 | 2238.6 | 2231.5 | 2241.4 |
| 32.5° | 2105.2 | 2098.1 | 2092.5 | 2096.7 |
| 35° | 1953.5 | 1949.2 | 1953.5 | 1950.6 |
| 37.5° | 1814.4 | 1818.7 | 1824.4 | 1827.2 |
| 40° | 1705.2 | 1720.8 | 1726.5 | 1729.3 |
| 42.5° | 1596.0 | 1614.4 | 1625.7 | 1632.8 |
| 45° | 1461.2 | 1479.6 | 1492.4 | 1500.9 |
| 47.5° | 1322.2 | 1337.8 | 1350.5 | 1349.1 |
| 50° | 1195.9 | 1204.4 | 1210.1 | 1215.8 |
| 52.5° | 1068.2 | 1068.2 | 1069.6 | 1069.6 |
| 55° | 923.5 | 920.7 | 919.3 | 920.7 |
| 57.5° | 764.6 | 761.8 | 760.4 | 756.1 |
| 60° | 619.9 | 611.4 | 605.7 | 605.7 |
| 62.5° | 485.2 | 475.2 | 471.0 | 469.6 |
| 65° | 364.6 | 363.2 | 354.6 | 353.2 |
| 67.5° | 263.9 | 258.2 | 252.5 | 253.9 |
| 70° | 185.8 | 177.3 | 177.3 | 174.5 |
| 72.5° | 120.6 | 116.3 | 114.9 | 114.9 |
| 75° | 75.2 | 75.2 | 72.3 | 78.0 |
| 77.5° | 49.6 | 49.6 | 48.2 | 49.6 |
| 80° | 29.8 | 29.8 | 29.8 | 28.4 |
| 82.5° | 18.4 | 19.9 | 18.4 | 18.4 |
| 85° | 9.9 | 11.4 | 8.5 | 12.8 |
| 87.5° | 5.7 | 7.1 | 5.7 | 7.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)