

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: P244649

Luminaire Tested: **LSR8B50D010 EC8B50950 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244649
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: LSR8B50D010 EC8B50950 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5147.0 lumens
Efficiency: N/A
Efficacy: 97.1 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

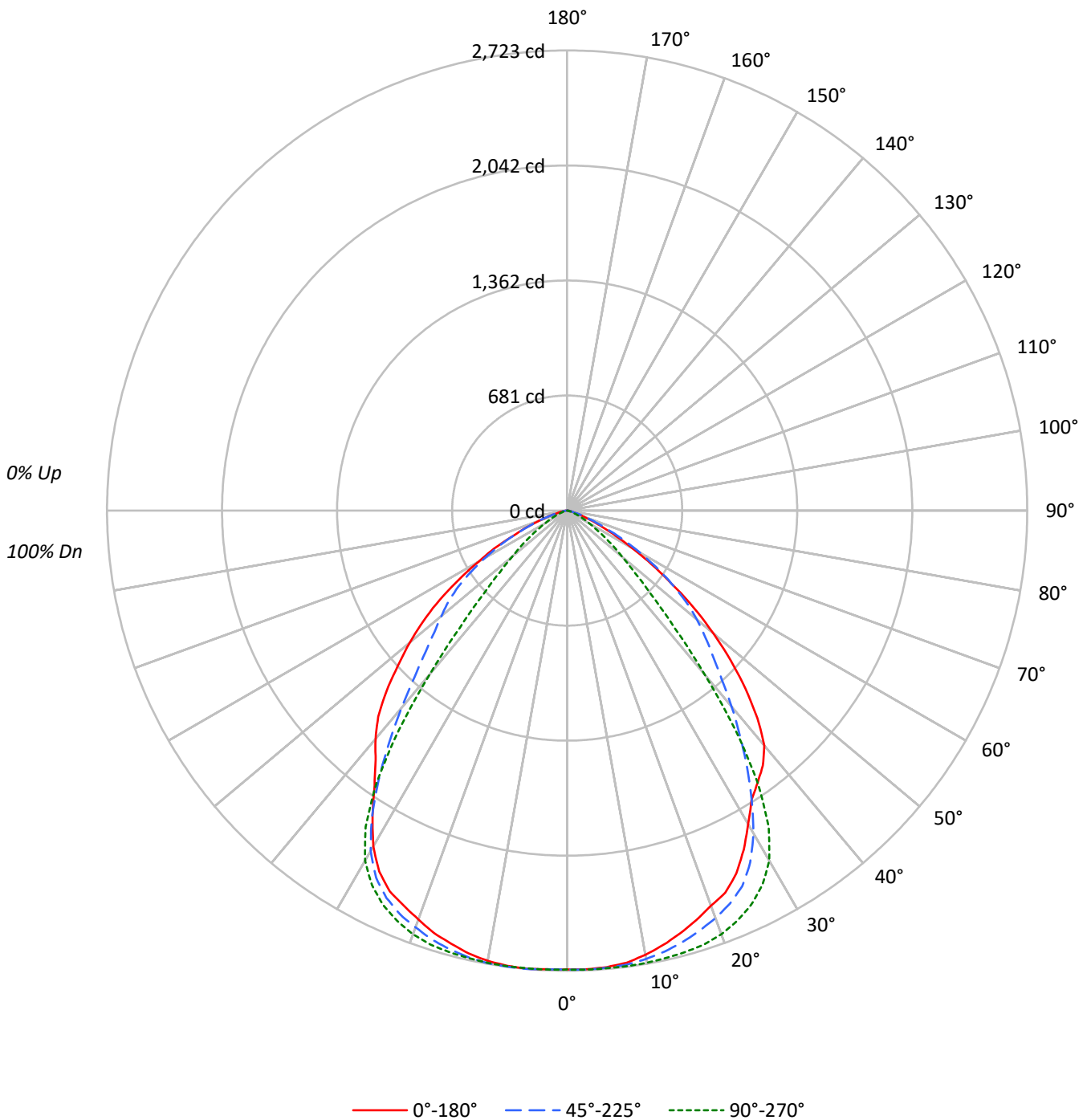
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244649

CATALOG NUMBER: LSR8B50D010 EC8B50950 8LBDW0H

Luminous Intensity Polar Plot





TEST NUMBER: P244649

CATALOG NUMBER: LSR8B50D010 EC8B50950 8LBDW0H

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° | 83742 | 83742 | 83742 |
| 5° | 83926 | 84152 | 84242 |
| 10° | 83572 | 85078 | 84715 |
| 15° | 82645 | 86323 | 84695 |
| 20° | 81654 | 87535 | 84476 |
| 25° | 80593 | 87636 | 84564 |
| 30° | 76245 | 85175 | 81696 |
| 35° | 73971 | 74024 | 74791 |
| 40° | 73053 | 50933 | 71000 |
| 45° | 65095 | 30574 | 65985 |
| 50° | 54128 | 20350 | 58321 |
| 55° | 40595 | 14026 | 49450 |
| 60° | 27512 | 9350 | 37306 |
| 65° | 16592 | 6063 | 25633 |
| 70° | 9196 | 3291 | 15769 |
| 75° | 4170 | 1394 | 8161 |
| 80° | 3623 | 1545 | 5700 |
| 85° | 4140 | 2052 | 5661 |



TEST NUMBER: P244649

CATALOG NUMBER: LSR8B50D010 EC8B50950 8LBDW0H

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 259.2 | 5.0 |
| 10°-20° | 752.7 | 14.6 |
| 20°-30° | 1142.4 | 22.2 |
| 30°-40° | 1199.9 | 23.3 |
| 40°-50° | 899.6 | 17.5 |
| 50°-60° | 577.2 | 11.2 |
| 60°-70° | 246.9 | 4.8 |
| 70°-80° | 58.3 | 1.1 |
| 80°-90° | 10.8 | 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° | 2154.3 | 41.9 |
| 0°-40° | 3354.1 | 65.2 |
| 0°-60° | 4830.9 | 93.9 |
| 0°-90° | 5147.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5147.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2716 | 2716 | 2716 | 2716 | 2716 | |
| 5° | 2711 | 2716 | 2719 | 2723 | 2722 | 258 |
| 15° | 2589 | 2643 | 2704 | 2686 | 2653 | 730 |
| 25° | 2369 | 2452 | 2576 | 2529 | 2485 | 1082 |
| 35° | 1965 | 1856 | 1966 | 1943 | 1987 | 1233 |
| 45° | 1493 | 1220 | 701 | 1185 | 1513 | 1143 |
| 55° | 755 | 755 | 261 | 787 | 920 | 685 |
| 65° | 227 | 268 | 83 | 346 | 351 | 243 |
| 75° | 35 | 41 | 12 | 70 | 68 | 51 |
| 85° | 12 | 7 | 6 | 12 | 16 | 12 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P244649

CATALOG NUMBER: LSR8B50D010 EC8B50950 8LBDW0H

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2715.7 | 2715.7 | 2715.7 | 2715.7 | 2715.7 | 2715.7 | 2715.7 | 2715.7 | 2715.7 | 2715.7 | 2715.7 |
| 2.5° | 2717.1 | 2720.0 | 2718.6 | 2718.6 | 2717.1 | 2718.6 | 2718.6 | 2721.5 | 2721.5 | 2718.6 | 2717.1 |
| 5° | 2711.3 | 2714.2 | 2714.2 | 2711.3 | 2711.3 | 2718.6 | 2714.2 | 2717.1 | 2717.1 | 2715.7 | 2715.7 |
| 7.5° | 2698.2 | 2698.2 | 2704.0 | 2699.6 | 2699.6 | 2704.0 | 2702.5 | 2705.5 | 2708.4 | 2709.8 | 2709.8 |
| 10° | 2669.0 | 2671.9 | 2673.4 | 2673.4 | 2674.9 | 2679.2 | 2682.1 | 2688.0 | 2690.9 | 2693.8 | 2695.3 |
| 12.5° | 2632.6 | 2636.9 | 2638.4 | 2636.9 | 2641.3 | 2647.1 | 2654.5 | 2661.7 | 2666.1 | 2671.9 | 2676.3 |
| 15° | 2588.8 | 2588.8 | 2591.8 | 2596.1 | 2599.1 | 2607.8 | 2615.1 | 2623.8 | 2635.5 | 2642.8 | 2650.1 |
| 17.5° | 2540.7 | 2543.7 | 2548.0 | 2548.0 | 2553.9 | 2568.4 | 2572.8 | 2585.9 | 2599.1 | 2606.3 | 2620.9 |
| 20° | 2488.3 | 2491.2 | 2495.6 | 2498.5 | 2505.8 | 2517.4 | 2526.2 | 2537.8 | 2552.4 | 2565.5 | 2580.1 |
| 22.5° | 2447.4 | 2441.6 | 2444.5 | 2447.4 | 2454.8 | 2465.0 | 2475.2 | 2489.7 | 2504.3 | 2517.4 | 2532.0 |
| 25° | 2368.7 | 2370.2 | 2374.6 | 2377.5 | 2386.2 | 2395.0 | 2406.6 | 2424.1 | 2437.2 | 2451.8 | 2467.8 |
| 27.5° | 2262.3 | 2263.8 | 2271.1 | 2271.1 | 2278.3 | 2292.9 | 2300.2 | 2314.8 | 2332.3 | 2346.9 | 2365.8 |
| 30° | 2141.3 | 2144.2 | 2144.2 | 2150.1 | 2154.4 | 2161.7 | 2169.0 | 2183.6 | 2192.4 | 2205.5 | 2231.7 |
| 32.5° | 2030.6 | 2033.5 | 2032.0 | 2030.6 | 2026.2 | 2024.7 | 2023.3 | 2026.2 | 2029.1 | 2033.5 | 2043.7 |
| 35° | 1965.0 | 1957.7 | 1951.8 | 1941.6 | 1930.0 | 1915.4 | 1902.3 | 1884.8 | 1868.7 | 1855.6 | 1841.1 |
| 37.5° | 1902.3 | 1900.8 | 1892.1 | 1877.5 | 1854.2 | 1827.9 | 1797.3 | 1759.4 | 1721.5 | 1680.7 | 1641.4 |
| 40° | 1814.8 | 1810.4 | 1803.2 | 1782.7 | 1756.5 | 1724.4 | 1683.6 | 1637.0 | 1575.7 | 1513.1 | 1448.9 |
| 42.5° | 1666.1 | 1667.6 | 1658.8 | 1642.8 | 1618.0 | 1587.4 | 1545.1 | 1494.1 | 1428.5 | 1354.2 | 1271.1 |
| 45° | 1492.7 | 1492.7 | 1489.7 | 1476.6 | 1459.1 | 1434.4 | 1402.3 | 1360.0 | 1295.9 | 1220.1 | 1131.1 |
| 47.5° | 1311.9 | 1313.4 | 1309.0 | 1306.1 | 1298.8 | 1282.8 | 1259.4 | 1227.4 | 1182.2 | 1109.3 | 1020.4 |
| 50° | 1128.3 | 1128.3 | 1135.5 | 1134.1 | 1134.1 | 1128.3 | 1118.1 | 1099.1 | 1059.7 | 1001.4 | 918.4 |
| 52.5° | 944.6 | 947.5 | 951.9 | 957.7 | 965.0 | 976.6 | 965.0 | 956.2 | 931.4 | 886.3 | 814.9 |
| 55° | 755.1 | 758.0 | 765.3 | 775.5 | 784.2 | 795.9 | 798.8 | 798.8 | 785.7 | 755.1 | 701.1 |
| 57.5° | 593.3 | 588.9 | 594.7 | 603.5 | 615.2 | 626.8 | 635.6 | 645.8 | 644.3 | 623.9 | 580.2 |
| 60° | 446.1 | 447.5 | 451.9 | 460.6 | 469.4 | 479.6 | 491.2 | 500.0 | 504.4 | 494.2 | 466.5 |
| 62.5° | 325.1 | 325.1 | 330.9 | 339.6 | 344.0 | 358.6 | 365.9 | 370.3 | 374.6 | 373.2 | 355.7 |
| 65° | 227.4 | 230.3 | 233.2 | 237.6 | 242.0 | 250.7 | 255.1 | 263.8 | 266.8 | 268.2 | 255.1 |
| 67.5° | 160.4 | 156.0 | 158.9 | 161.8 | 166.2 | 172.0 | 180.8 | 180.8 | 185.1 | 185.1 | 176.4 |
| 70° | 102.0 | 102.0 | 103.5 | 107.9 | 110.8 | 112.2 | 115.2 | 118.1 | 122.4 | 121.0 | 121.0 |
| 72.5° | 68.5 | 67.1 | 68.5 | 70.0 | 71.4 | 75.8 | 75.8 | 77.3 | 80.2 | 81.6 | 75.8 |
| 75° | 35.0 | 36.5 | 39.3 | 37.9 | 42.3 | 39.3 | 40.8 | 45.2 | 43.7 | 40.8 | 40.8 |
| 77.5° | 29.1 | 29.1 | 29.1 | 27.7 | 30.6 | 30.6 | 29.1 | 32.1 | 30.6 | 30.6 | 29.1 |
| 80° | 20.4 | 21.9 | 20.4 | 18.9 | 20.4 | 18.9 | 18.9 | 18.9 | 18.9 | 18.9 | 17.5 |
| 82.5° | 16.0 | 13.1 | 14.6 | 13.1 | 14.6 | 14.6 | 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: P244649

CATALOG NUMBER: LSR8B50D010 EC8B50950 8LBDW0H

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2715.7 | 2715.7 | 2715.7 | 2715.7 | 2715.7 | 2715.7 | 2715.7 | 2715.7 | 2715.7 | 2715.7 | 2715.7 |
| 2.5° | 2720.0 | 2718.6 | 2721.5 | 2720.0 | 2720.0 | 2718.6 | 2720.0 | 2718.6 | 2721.5 | 2715.7 | 2717.1 |
| 5° | 2720.0 | 2717.1 | 2718.6 | 2720.0 | 2721.5 | 2718.6 | 2718.6 | 2718.6 | 2721.5 | 2718.6 | 2720.0 |
| 7.5° | 2714.2 | 2712.7 | 2717.1 | 2720.0 | 2718.6 | 2717.1 | 2720.0 | 2718.6 | 2721.5 | 2720.0 | 2722.9 |
| 10° | 2702.5 | 2704.0 | 2706.9 | 2711.3 | 2712.7 | 2714.2 | 2717.1 | 2717.1 | 2721.5 | 2715.7 | 2718.6 |
| 12.5° | 2685.1 | 2690.9 | 2698.2 | 2701.1 | 2706.9 | 2706.9 | 2709.8 | 2711.3 | 2714.2 | 2712.7 | 2717.1 |
| 15° | 2663.2 | 2670.5 | 2679.2 | 2686.5 | 2693.8 | 2698.2 | 2702.5 | 2704.0 | 2708.4 | 2704.0 | 2705.5 |
| 17.5° | 2636.9 | 2645.7 | 2658.8 | 2667.5 | 2679.2 | 2683.6 | 2689.4 | 2692.3 | 2696.7 | 2693.8 | 2695.3 |
| 20° | 2600.5 | 2610.7 | 2625.3 | 2638.4 | 2645.7 | 2655.9 | 2663.2 | 2667.5 | 2670.5 | 2667.5 | 2669.0 |
| 22.5° | 2549.5 | 2564.1 | 2583.0 | 2593.2 | 2607.8 | 2616.5 | 2618.0 | 2628.2 | 2635.5 | 2628.2 | 2631.1 |
| 25° | 2489.7 | 2504.3 | 2518.9 | 2540.7 | 2553.9 | 2564.1 | 2574.3 | 2575.7 | 2583.0 | 2581.6 | 2580.1 |
| 27.5° | 2390.6 | 2409.6 | 2434.3 | 2451.8 | 2469.3 | 2485.4 | 2497.0 | 2499.9 | 2507.2 | 2504.3 | 2505.8 |
| 30° | 2255.0 | 2275.5 | 2298.8 | 2326.5 | 2351.2 | 2367.3 | 2381.8 | 2392.1 | 2399.3 | 2395.0 | 2393.5 |
| 32.5° | 2062.6 | 2083.0 | 2107.8 | 2135.5 | 2164.7 | 2188.0 | 2205.5 | 2218.6 | 2227.3 | 2224.4 | 2217.1 |
| 35° | 1842.5 | 1848.3 | 1864.4 | 1886.3 | 1911.0 | 1935.8 | 1951.8 | 1966.4 | 1976.6 | 1979.5 | 1979.5 |
| 37.5° | 1616.6 | 1597.6 | 1586.0 | 1586.0 | 1600.5 | 1610.7 | 1625.3 | 1634.1 | 1650.1 | 1655.9 | 1660.3 |
| 40° | 1397.9 | 1354.2 | 1313.4 | 1282.8 | 1262.4 | 1260.9 | 1260.9 | 1265.3 | 1279.8 | 1298.8 | 1316.3 |
| 42.5° | 1202.6 | 1132.6 | 1069.9 | 1013.1 | 972.3 | 949.0 | 938.8 | 940.2 | 951.9 | 969.4 | 998.5 |
| 45° | 1046.6 | 959.2 | 880.4 | 811.9 | 756.5 | 720.1 | 702.6 | 701.1 | 709.9 | 730.3 | 762.4 |
| 47.5° | 925.6 | 832.3 | 743.4 | 664.7 | 604.9 | 565.6 | 545.2 | 539.4 | 545.2 | 564.1 | 602.0 |
| 50° | 825.1 | 728.9 | 637.0 | 555.4 | 491.2 | 450.4 | 431.5 | 424.2 | 431.5 | 447.5 | 485.4 |
| 52.5° | 731.7 | 632.6 | 546.6 | 467.9 | 399.4 | 364.4 | 344.0 | 339.6 | 344.0 | 362.9 | 393.6 |
| 55° | 623.9 | 539.4 | 454.8 | 376.1 | 316.3 | 281.3 | 265.3 | 260.9 | 265.3 | 282.8 | 314.9 |
| 57.5° | 517.5 | 444.6 | 370.3 | 298.8 | 247.8 | 217.2 | 202.6 | 196.8 | 207.0 | 218.6 | 256.6 |
| 60° | 418.3 | 360.1 | 297.4 | 234.7 | 192.4 | 164.7 | 153.0 | 151.6 | 154.5 | 169.1 | 195.3 |
| 62.5° | 328.0 | 279.9 | 230.3 | 179.3 | 144.3 | 132.6 | 118.1 | 116.6 | 119.5 | 128.3 | 148.7 |
| 65° | 236.2 | 205.5 | 167.6 | 131.2 | 103.5 | 87.5 | 81.6 | 83.1 | 86.0 | 91.8 | 110.8 |
| 67.5° | 164.7 | 142.8 | 116.6 | 91.8 | 71.4 | 64.1 | 58.3 | 56.9 | 58.3 | 68.5 | 78.7 |
| 70° | 110.8 | 97.7 | 78.7 | 70.0 | 49.6 | 39.3 | 40.8 | 36.5 | 42.3 | 42.3 | 51.0 |
| 72.5° | 72.9 | 64.1 | 52.5 | 40.8 | 35.0 | 27.7 | 27.7 | 26.3 | 29.1 | 30.6 | 37.9 |
| 75° | 37.9 | 29.1 | 29.1 | 20.4 | 14.6 | 7.3 | 13.1 | 11.7 | 10.2 | 11.7 | 14.6 |
| 77.5° | 26.3 | 21.9 | 20.4 | 16.0 | 14.6 | 11.7 | 11.7 | 11.7 | 11.7 | 13.1 | 14.6 |
| 80° | 16.0 | 16.0 | 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 |



TEST NUMBER: P244649

CATALOG NUMBER: LSR8B50D010 EC8B50950 8LBDW0H

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2715.7 | 2715.7 | 2715.7 | 2715.7 | 2715.7 | 2715.7 | 2715.7 | 2715.7 | 2715.7 | 2715.7 | 2715.7 |
| 2.5° | 2720.0 | 2721.5 | 2721.5 | 2720.0 | 2720.0 | 2717.1 | 2722.9 | 2718.6 | 2720.0 | 2725.9 | 2721.5 |
| 5° | 2722.9 | 2724.4 | 2724.4 | 2722.9 | 2722.9 | 2722.9 | 2724.4 | 2724.4 | 2722.9 | 2721.5 | 2724.4 |
| 7.5° | 2728.8 | 2727.3 | 2727.3 | 2724.4 | 2724.4 | 2721.5 | 2724.4 | 2720.0 | 2722.9 | 2720.0 | 2724.4 |
| 10° | 2721.5 | 2722.9 | 2721.5 | 2720.0 | 2720.0 | 2718.6 | 2718.6 | 2714.2 | 2715.7 | 2711.3 | 2714.2 |
| 12.5° | 2717.1 | 2715.7 | 2715.7 | 2712.7 | 2709.8 | 2706.9 | 2705.5 | 2701.1 | 2701.1 | 2690.9 | 2695.3 |
| 15° | 2705.5 | 2706.9 | 2702.5 | 2696.7 | 2693.8 | 2686.5 | 2683.6 | 2677.7 | 2671.9 | 2664.7 | 2666.1 |
| 17.5° | 2695.3 | 2690.9 | 2685.1 | 2679.2 | 2667.5 | 2661.7 | 2655.9 | 2647.1 | 2644.2 | 2635.5 | 2632.6 |
| 20° | 2664.7 | 2661.7 | 2654.5 | 2644.2 | 2636.9 | 2623.8 | 2618.0 | 2609.3 | 2602.0 | 2593.2 | 2588.8 |
| 22.5° | 2625.3 | 2622.4 | 2613.6 | 2603.4 | 2591.8 | 2585.9 | 2580.1 | 2564.1 | 2556.8 | 2548.0 | 2546.6 |
| 25° | 2575.7 | 2571.3 | 2562.6 | 2550.9 | 2545.1 | 2529.1 | 2523.2 | 2511.6 | 2508.7 | 2499.9 | 2498.5 |
| 27.5° | 2499.9 | 2494.1 | 2483.9 | 2469.3 | 2459.1 | 2448.9 | 2443.1 | 2434.3 | 2431.4 | 2422.7 | 2421.2 |
| 30° | 2386.2 | 2378.9 | 2358.5 | 2352.7 | 2335.2 | 2325.0 | 2325.0 | 2313.3 | 2314.8 | 2309.0 | 2309.0 |
| 32.5° | 2206.9 | 2195.3 | 2179.2 | 2167.6 | 2155.9 | 2150.1 | 2150.1 | 2145.7 | 2148.6 | 2148.6 | 2151.5 |
| 35° | 1969.3 | 1953.3 | 1944.5 | 1937.3 | 1937.3 | 1943.1 | 1960.6 | 1965.0 | 1973.7 | 1981.0 | 1986.8 |
| 37.5° | 1664.7 | 1663.2 | 1673.4 | 1682.2 | 1704.0 | 1728.8 | 1759.4 | 1785.7 | 1810.4 | 1827.9 | 1845.4 |
| 40° | 1335.2 | 1371.7 | 1400.8 | 1441.7 | 1475.2 | 1523.3 | 1578.7 | 1623.9 | 1666.1 | 1696.8 | 1728.8 |
| 42.5° | 1042.2 | 1088.9 | 1150.1 | 1209.9 | 1269.6 | 1335.2 | 1408.1 | 1470.8 | 1526.2 | 1568.5 | 1602.0 |
| 45° | 811.9 | 876.1 | 950.4 | 1026.2 | 1103.5 | 1185.1 | 1260.9 | 1325.0 | 1383.3 | 1427.1 | 1460.6 |
| 47.5° | 654.5 | 724.5 | 809.0 | 892.1 | 979.6 | 1065.6 | 1150.1 | 1205.5 | 1253.6 | 1288.6 | 1319.2 |
| 50° | 540.8 | 615.2 | 704.1 | 798.8 | 886.3 | 972.3 | 1045.2 | 1099.1 | 1138.5 | 1169.1 | 1188.0 |
| 52.5° | 451.9 | 530.6 | 625.4 | 720.1 | 807.5 | 886.3 | 951.9 | 992.7 | 1024.8 | 1046.6 | 1064.1 |
| 55° | 373.2 | 449.0 | 537.9 | 626.8 | 712.8 | 787.1 | 841.1 | 871.7 | 896.5 | 909.6 | 919.8 |
| 57.5° | 304.7 | 374.6 | 456.3 | 537.9 | 612.2 | 673.5 | 715.7 | 746.3 | 758.0 | 768.2 | 766.7 |
| 60° | 239.1 | 304.7 | 379.0 | 449.0 | 513.1 | 562.6 | 593.3 | 610.8 | 619.5 | 623.9 | 621.0 |
| 62.5° | 188.0 | 247.8 | 304.7 | 365.9 | 412.5 | 454.8 | 484.0 | 484.0 | 488.3 | 489.8 | 494.2 |
| 65° | 139.9 | 185.1 | 234.7 | 279.9 | 317.8 | 345.5 | 361.5 | 365.9 | 371.7 | 370.3 | 367.3 |
| 67.5° | 103.5 | 137.0 | 173.4 | 207.0 | 233.2 | 250.7 | 262.4 | 272.6 | 271.1 | 268.2 | 266.8 |
| 70° | 71.4 | 93.3 | 125.4 | 145.8 | 164.7 | 182.2 | 185.1 | 186.6 | 188.0 | 189.5 | 186.6 |
| 72.5° | 49.6 | 65.6 | 83.1 | 100.6 | 112.2 | 119.5 | 126.8 | 128.3 | 128.3 | 128.3 | 126.8 |
| 75° | 24.8 | 33.5 | 49.6 | 56.9 | 67.1 | 70.0 | 75.8 | 75.8 | 80.2 | 74.3 | 72.9 |
| 77.5° | 21.9 | 26.3 | 35.0 | 40.8 | 45.2 | 49.6 | 51.0 | 55.4 | 53.9 | 51.0 | 52.5 |
| 80° | 13.1 | 16.0 | 21.9 | 24.8 | 30.6 | 32.1 | 33.5 | 35.0 | 33.5 | 35.0 | 35.0 |
| 82.5° | 10.2 | 11.7 | 14.6 | 14.6 | 18.9 | 18.9 | 20.4 | 20.4 | 21.9 | 21.9 | 21.9 |
| 85° | 5.8 | 10.2 | 8.7 | 17.5 | 11.7 | 11.7 | 14.6 | 17.5 | 14.6 | 14.6 | 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: P244649

CATALOG NUMBER: LSR8B50D010 EC8B50950 8LBDW0H

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 2715.7 | 2715.7 | 2715.7 | 2715.7 |
| 2.5° | 2720.0 | 2722.9 | 2718.6 | 2717.1 |
| 5° | 2724.4 | 2724.4 | 2721.5 | 2721.5 |
| 7.5° | 2724.4 | 2724.4 | 2720.0 | 2717.1 |
| 10° | 2712.7 | 2712.7 | 2708.4 | 2705.5 |
| 12.5° | 2690.9 | 2690.9 | 2689.4 | 2685.1 |
| 15° | 2663.2 | 2663.2 | 2657.3 | 2653.0 |
| 17.5° | 2625.3 | 2628.2 | 2620.9 | 2620.9 |
| 20° | 2584.5 | 2583.0 | 2577.2 | 2574.3 |
| 22.5° | 2542.2 | 2539.3 | 2537.8 | 2529.1 |
| 25° | 2497.0 | 2494.1 | 2489.7 | 2485.4 |
| 27.5° | 2419.8 | 2418.3 | 2413.9 | 2408.1 |
| 30° | 2301.7 | 2300.2 | 2294.4 | 2294.4 |
| 32.5° | 2148.6 | 2147.2 | 2141.3 | 2142.8 |
| 35° | 1989.7 | 1995.6 | 1992.7 | 1986.8 |
| 37.5° | 1857.1 | 1861.5 | 1864.4 | 1861.5 |
| 40° | 1746.3 | 1759.4 | 1760.9 | 1763.8 |
| 42.5° | 1628.2 | 1645.7 | 1651.6 | 1654.5 |
| 45° | 1486.8 | 1502.9 | 1516.0 | 1513.1 |
| 47.5° | 1342.5 | 1354.2 | 1365.8 | 1357.1 |
| 50° | 1204.1 | 1211.3 | 1215.7 | 1215.7 |
| 52.5° | 1072.9 | 1072.9 | 1071.4 | 1072.9 |
| 55° | 922.7 | 922.7 | 916.9 | 919.8 |
| 57.5° | 765.3 | 768.2 | 763.8 | 756.5 |
| 60° | 619.5 | 612.2 | 609.3 | 604.9 |
| 62.5° | 482.5 | 482.5 | 472.3 | 485.4 |
| 65° | 361.5 | 357.1 | 352.7 | 351.3 |
| 67.5° | 262.4 | 260.9 | 256.6 | 255.1 |
| 70° | 185.1 | 179.3 | 177.8 | 174.9 |
| 72.5° | 123.9 | 123.9 | 121.0 | 121.0 |
| 75° | 75.8 | 68.5 | 67.1 | 68.5 |
| 77.5° | 52.5 | 51.0 | 51.0 | 49.6 |
| 80° | 35.0 | 33.5 | 36.5 | 32.1 |
| 82.5° | 21.9 | 23.3 | 21.9 | 23.3 |
| 85° | 14.6 | 17.5 | 16.0 | 16.0 |
| 87.5° | 8.7 | 8.7 | 8.7 | 8.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)