

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: P244571

Luminaire Tested: **LSR8B50D010 EC8B50940 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B50940 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4904.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

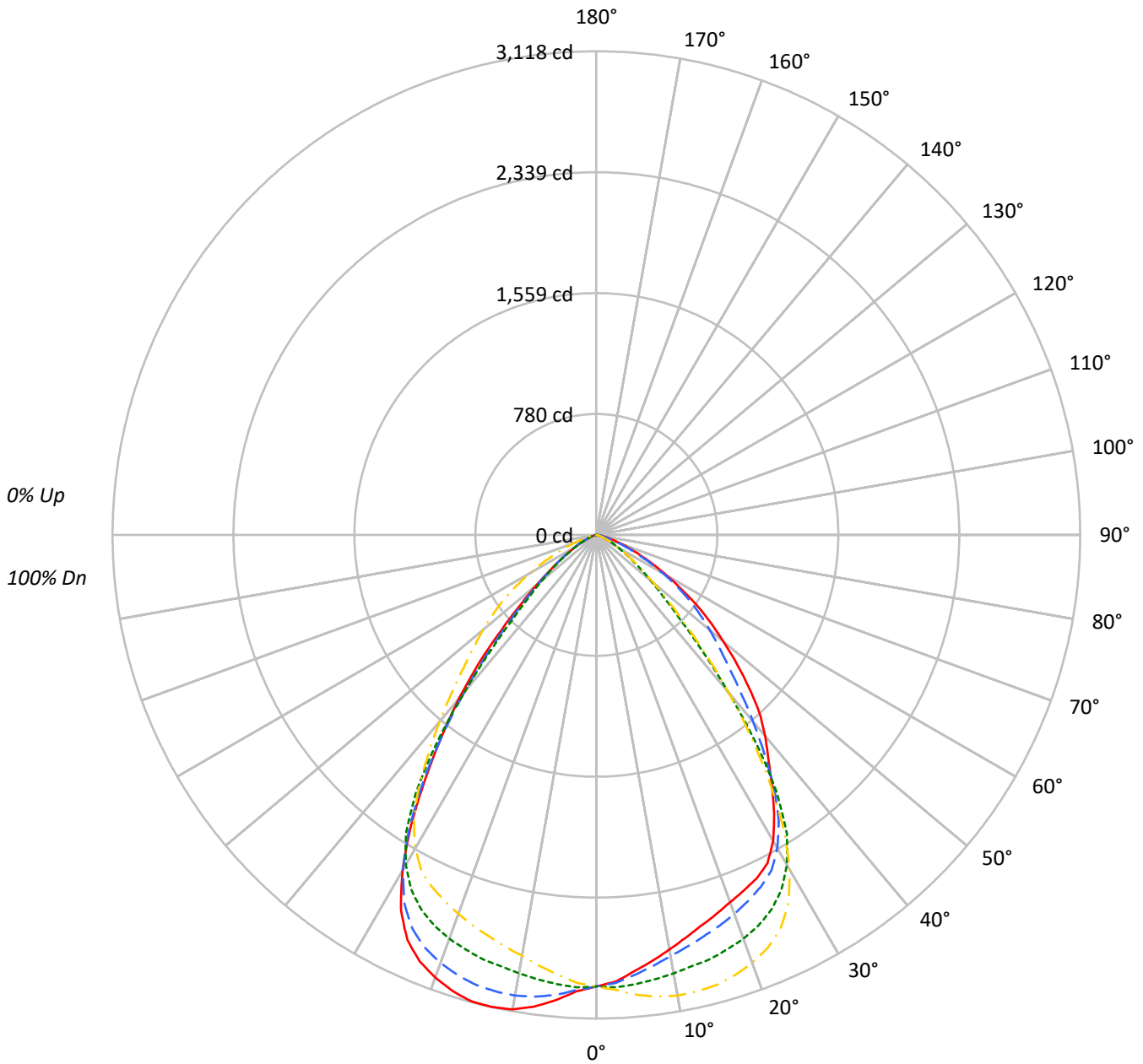
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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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	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	89774	89774	89774	89774
5°	87390	89987	93200	89987
10°	84975	89869	97258	89869
15°	83274	90403	99386	90403
20°	82708	90918	99640	90918
25°	83145	90735	98040	90735
30°	81087	87414	88985	87414
35°	74170	76256	72352	76256
40°	68098	53047	55393	53047
45°	60503	32362	37443	32362
50°	51216	21617	24006	21617
55°	42418	14752	15591	14752
60°	32353	9818	9905	9818
65°	22926	6114	5604	6114
70°	16535	4102	3724	4102
75°	10496	2037	1692	2037
80°	7334	1509	1261	1509
85°	6545	0	495	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.1	5.7
10°-20°	802.4	16.4
20°-30°	1215.1	24.8
30°-40°	1217.8	24.8
40°-50°	764.7	15.6
50°-60°	407.5	8.3
60°-70°	167.6	3.4
70°-80°	44.3	0.9
80°-90°	7.5	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°	2294.6	46.8
0°-40°	3512.4	71.6
0°-60°	4684.7	95.5
0°-90°	4904.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4904.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2911	2911	2911	2911	2911	
5°	2823	2907	3011	2907	2823	266
15°	2608	2832	3113	2832	2608	738
25°	2444	2667	2882	2667	2444	1121
35°	1970	2026	1922	2026	1970	1234
45°	1387	742	859	742	1387	1067
55°	789	274	290	274	789	703
65°	314	84	77	84	314	326
75°	88	17	14	17	88	100
85°	18	0	1	0	18	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3
2.5°	2881.5	2878.6	2877.2	2880.1	2881.5	2887.2	2885.8	2888.6	2888.6	2890.1	2892.9
5°	2823.2	2821.8	2823.2	2823.2	2828.9	2834.6	2833.2	2837.4	2840.3	2847.4	2850.2
7.5°	2769.2	2769.2	2767.8	2773.4	2776.3	2784.8	2783.4	2790.5	2794.8	2801.9	2811.8
10°	2713.8	2713.8	2715.2	2719.4	2720.9	2733.6	2733.6	2743.6	2749.3	2756.4	2769.2
12.5°	2659.7	2659.7	2668.3	2665.4	2671.1	2681.0	2685.3	2695.3	2703.8	2718.0	2730.8
15°	2608.5	2608.5	2611.4	2618.5	2622.8	2635.6	2642.7	2654.1	2664.0	2678.2	2696.7
17.5°	2564.5	2563.1	2564.5	2573.0	2581.6	2592.9	2598.6	2612.8	2622.8	2641.3	2658.3
20°	2520.4	2523.3	2523.3	2530.4	2536.1	2550.3	2555.9	2571.6	2583.0	2600.0	2620.0
22.5°	2482.0	2480.6	2480.6	2490.6	2494.9	2507.6	2513.3	2527.5	2540.3	2554.5	2573.0
25°	2443.7	2440.8	2446.5	2447.9	2450.7	2465.0	2469.2	2479.2	2492.0	2504.8	2523.3
27.5°	2386.8	2384.0	2385.4	2391.1	2395.3	2406.7	2409.5	2419.5	2429.4	2440.8	2456.5
30°	2277.3	2274.5	2273.1	2283.0	2287.3	2295.8	2300.1	2317.2	2320.0	2332.8	2344.1
32.5°	2132.3	2130.9	2133.8	2142.3	2146.5	2157.9	2163.6	2173.6	2180.6	2187.8	2199.1
35°	1970.3	1967.4	1970.3	1978.8	1978.8	1988.8	1993.1	1997.3	1995.9	1997.3	1994.5
37.5°	1819.6	1818.2	1819.6	1823.8	1819.6	1823.8	1819.6	1811.1	1795.5	1778.4	1761.3
40°	1691.7	1693.1	1684.6	1690.3	1674.6	1671.8	1656.1	1634.8	1603.5	1569.4	1521.1
42.5°	1555.2	1550.9	1545.3	1548.1	1535.3	1525.3	1499.7	1472.8	1432.9	1376.1	1317.8
45°	1387.4	1386.0	1383.2	1381.8	1373.2	1363.3	1341.9	1310.7	1266.6	1208.3	1138.7
47.5°	1224.0	1219.7	1219.7	1221.1	1211.2	1209.7	1192.7	1165.7	1127.3	1070.4	997.9
50°	1067.6	1066.2	1069.0	1074.7	1067.6	1064.8	1053.4	1034.9	1000.8	952.5	884.2
52.5°	926.8	925.4	928.3	935.4	932.5	935.4	924.0	909.8	887.0	840.1	780.4
55°	789.0	789.0	789.0	797.5	797.5	797.5	791.8	783.3	762.0	727.8	672.4
57.5°	645.4	646.8	655.3	656.7	655.3	658.2	656.7	648.2	634.0	609.9	567.2
60°	524.6	524.6	528.8	533.1	531.6	533.1	533.1	528.8	514.6	494.7	460.6
62.5°	415.1	419.4	416.5	419.4	425.0	419.4	416.5	413.7	403.7	390.9	362.5
65°	314.2	317.0	317.0	318.4	315.6	317.0	311.3	307.1	301.4	287.2	268.7
67.5°	238.8	238.8	238.8	238.8	237.4	236.0	234.6	230.3	220.4	214.7	194.7
70°	183.4	174.8	174.8	174.8	174.8	176.3	172.0	166.4	163.5	153.5	139.3
72.5°	122.2	125.1	122.2	122.2	119.4	120.8	115.2	112.3	109.5	103.8	95.3
75°	88.1	81.0	83.8	85.3	81.0	83.8	78.2	72.5	72.5	68.2	64.0
77.5°	56.9	55.5	56.9	58.3	56.9	55.5	52.6	49.7	49.7	48.3	44.1
80°	41.3	39.8	39.8	39.8	38.4	39.8	37.0	37.0	34.1	32.7	29.8
82.5°	27.0	27.0	25.6	27.0	25.6	27.0	22.8	22.8	22.8	21.3	18.5
85°	18.5	15.6	15.6	17.1	14.2	17.1	15.6	14.2	12.8	12.8	11.4
87.5°	8.5	9.9	8.5	9.9	8.5	8.5	9.9	8.5	8.5	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3
2.5°	2897.1	2898.5	2898.5	2904.3	2907.1	2908.5	2908.5	2919.9	2915.6	2918.5	2921.3
5°	2855.9	2864.4	2867.3	2867.3	2882.9	2888.6	2894.3	2907.1	2908.5	2917.0	2927.0
7.5°	2816.1	2826.0	2831.8	2844.5	2854.5	2864.4	2881.5	2890.1	2898.5	2909.9	2922.7
10°	2777.7	2789.1	2800.5	2810.4	2826.0	2838.9	2850.2	2870.1	2880.1	2895.7	2912.8
12.5°	2740.8	2756.4	2766.4	2783.4	2800.5	2811.8	2828.9	2847.4	2863.0	2878.6	2898.5
15°	2708.1	2726.6	2737.9	2756.4	2774.9	2790.5	2809.0	2831.8	2843.1	2861.6	2880.1
17.5°	2672.5	2692.5	2706.7	2723.7	2746.5	2763.5	2779.2	2801.9	2816.1	2836.0	2857.3
20°	2635.6	2655.5	2672.5	2689.6	2712.3	2729.4	2747.9	2770.6	2786.2	2806.1	2823.2
22.5°	2591.5	2610.0	2628.4	2648.3	2671.1	2685.3	2706.7	2726.6	2743.6	2762.1	2779.2
25°	2534.6	2557.4	2571.6	2590.1	2608.5	2624.2	2646.9	2666.8	2681.0	2698.1	2713.8
27.5°	2467.8	2484.9	2496.3	2511.9	2530.4	2544.6	2561.6	2581.6	2595.8	2611.4	2622.8
30°	2354.1	2369.8	2379.7	2391.1	2409.5	2422.4	2436.6	2455.0	2465.0	2476.4	2486.3
32.5°	2204.8	2217.6	2223.3	2231.8	2244.7	2257.4	2268.8	2284.4	2288.7	2295.8	2295.8
35°	1988.8	1991.6	1990.2	1993.1	1998.7	2005.8	2015.8	2025.7	2031.4	2031.4	2027.2
37.5°	1735.7	1718.7	1700.2	1686.0	1681.7	1678.8	1684.6	1688.8	1694.5	1697.3	1690.3
40°	1472.8	1434.4	1393.1	1356.1	1330.6	1319.2	1315.0	1317.8	1317.8	1327.7	1327.7
42.5°	1246.7	1187.0	1125.9	1070.4	1033.4	1005.1	992.3	992.3	993.7	1000.8	1005.1
45°	1059.1	983.7	912.6	851.5	800.3	763.4	746.3	742.1	740.7	743.5	753.4
47.5°	915.5	837.3	763.4	688.0	634.0	597.1	581.4	575.7	570.0	575.7	577.2
50°	803.2	722.2	644.0	568.6	511.8	479.0	459.1	450.6	449.2	449.2	452.1
52.5°	700.8	625.5	547.3	470.6	410.8	379.6	361.1	356.8	351.1	356.8	356.8
55°	604.1	528.8	452.1	379.6	329.8	297.1	280.0	274.4	271.5	275.8	275.8
57.5°	499.0	435.0	363.9	298.5	248.8	226.0	213.2	206.1	204.7	207.5	204.7
60°	409.4	355.4	294.3	234.6	196.2	172.0	162.1	159.2	156.3	159.2	159.2
62.5°	324.1	278.6	228.8	183.4	150.7	133.6	122.2	122.2	120.8	120.8	122.2
65°	240.3	204.7	169.2	130.8	105.2	92.4	83.8	83.8	82.4	83.8	82.4
67.5°	174.8	150.7	122.2	95.3	75.4	68.2	62.5	58.3	61.1	58.3	56.9
70°	128.0	108.0	88.1	72.5	58.3	51.2	46.9	45.5	42.7	42.7	42.7
72.5°	85.3	72.5	59.7	46.9	38.4	31.2	29.8	27.0	24.2	25.6	28.4
75°	56.9	48.3	42.7	34.1	25.6	25.6	17.1	17.1	14.2	17.1	12.8
77.5°	39.8	32.7	25.6	21.3	17.1	15.6	11.4	11.4	9.9	9.9	9.9
80°	28.4	24.2	18.5	15.6	11.4	11.4	9.9	8.5	7.1	7.1	8.5
82.5°	17.1	12.8	12.8	11.4	7.1	5.7	4.3	5.7	2.9	2.9	2.9
85°	9.9	8.5	7.1	4.3	2.9	2.9	1.4	0.0	1.4	1.4	0.0
87.5°	5.7	2.9	2.9	1.4	0.0	1.4	1.4	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3
2.5°	2928.4	2927.0	2929.8	2929.8	2938.4	2936.9	2941.2	2941.2	2938.4	2939.8	2945.5
5°	2938.4	2942.7	2951.1	2958.3	2971.0	2976.8	2983.8	2991.0	2992.4	2996.7	3000.9
7.5°	2938.4	2952.6	2962.5	2975.3	2992.4	3002.3	3018.0	3030.8	3036.4	3043.5	3052.1
10°	2932.6	2946.9	2965.4	2979.6	3000.9	3016.6	3032.2	3052.1	3060.6	3072.0	3083.4
12.5°	2921.3	2936.9	2956.8	2975.3	2999.5	3013.7	3033.6	3052.1	3064.9	3080.5	3093.3
15°	2904.3	2922.7	2941.2	2959.7	2985.3	3002.3	3020.8	3042.1	3054.9	3072.0	3083.4
17.5°	2877.2	2897.1	2914.2	2931.2	2955.4	2975.3	2992.4	3012.3	3025.1	3039.3	3054.9
20°	2844.5	2863.0	2881.5	2895.7	2919.9	2936.9	2955.4	2973.9	2983.8	2986.7	3010.9
22.5°	2803.3	2816.1	2830.3	2853.1	2867.3	2882.9	2900.0	2917.0	2927.0	2942.7	2951.1
25°	2735.1	2747.9	2763.5	2773.4	2790.5	2803.3	2820.4	2838.9	2844.5	2855.9	2864.4
27.5°	2639.9	2646.9	2654.1	2662.6	2672.5	2679.6	2689.6	2698.1	2703.8	2709.5	2715.2
30°	2489.1	2489.1	2489.1	2483.4	2487.7	2492.0	2493.4	2492.0	2492.0	2490.6	2490.6
32.5°	2290.1	2278.8	2266.0	2254.6	2250.3	2244.7	2241.8	2237.5	2230.4	2226.2	2227.6
35°	2021.4	1995.9	1980.2	1966.0	1954.7	1946.1	1941.9	1937.6	1936.2	1930.5	1924.8
37.5°	1686.0	1667.5	1656.1	1647.6	1637.6	1629.1	1630.5	1632.0	1636.2	1633.4	1634.8
40°	1330.6	1326.3	1330.6	1320.6	1317.8	1320.6	1327.7	1337.7	1343.4	1349.1	1359.0
42.5°	1012.1	1019.2	1029.2	1029.2	1033.4	1039.2	1047.7	1063.3	1071.8	1081.8	1093.2
45°	762.0	770.5	783.3	787.5	790.4	797.5	807.5	820.2	825.9	834.4	844.4
47.5°	587.1	592.8	599.9	607.0	614.1	617.0	626.9	626.9	634.0	639.7	642.5
50°	457.7	463.4	469.1	473.4	476.2	480.5	483.3	487.6	489.0	491.9	493.3
52.5°	358.2	365.4	365.4	368.2	372.4	376.7	375.3	376.7	378.1	378.1	382.4
55°	280.0	280.0	284.3	284.3	287.2	285.7	287.2	287.2	287.2	287.2	288.6
57.5°	208.9	210.4	214.7	211.8	210.4	213.2	210.4	213.2	211.8	214.7	210.4
60°	160.6	160.6	162.1	162.1	163.5	163.5	163.5	162.1	162.1	160.6	160.6
62.5°	120.8	122.2	123.7	122.2	122.2	122.2	120.8	120.8	119.4	118.0	118.0
65°	81.0	79.6	82.4	79.6	81.0	81.0	79.6	81.0	76.8	78.2	76.8
67.5°	58.3	56.9	55.5	56.9	55.5	54.0	54.0	55.5	56.9	52.6	52.6
70°	38.4	39.8	38.4	39.8	41.3	41.3	39.8	38.4	39.8	37.0	38.4
72.5°	24.2	24.2	24.2	24.2	24.2	25.6	25.6	25.6	22.8	22.8	21.3
75°	11.4	15.6	12.8	11.4	15.6	15.6	14.2	14.2	12.8	12.8	12.8
77.5°	11.4	8.5	8.5	8.5	8.5	8.5	8.5	8.5	7.1	8.5	7.1
80°	5.7	5.7	5.7	4.3	5.7	5.7	7.1	5.7	5.7	4.3	7.1
82.5°	2.9	2.9	2.9	0.0	1.4	2.9	2.9	1.4	2.9	2.9	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P244571

CATALOG NUMBER: LSR8B50D010 EC8B50940 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3
2.5°	2944.1	2942.7	2944.1	2945.5	2944.1	2942.7	2944.1	2945.5	2939.8	2938.4	2941.2
5°	3006.6	3006.6	3009.4	3010.9	3009.4	3006.6	3006.6	3000.9	2996.7	2992.4	2991.0
7.5°	3060.6	3063.5	3066.3	3067.7	3066.3	3063.5	3060.6	3052.1	3043.5	3036.4	3030.8
10°	3093.3	3097.6	3103.3	3106.1	3103.3	3097.6	3093.3	3083.4	3072.0	3060.6	3052.1
12.5°	3107.5	3111.8	3118.9	3117.5	3118.9	3111.8	3107.5	3093.3	3080.5	3064.9	3052.1
15°	3097.6	3103.3	3110.4	3113.2	3110.4	3103.3	3097.6	3083.4	3072.0	3054.9	3042.1
17.5°	3066.3	3074.8	3079.1	3083.4	3079.1	3074.8	3066.3	3054.9	3039.3	3025.1	3012.3
20°	3023.6	3029.4	3035.0	3036.4	3035.0	3029.4	3023.6	3010.9	2986.7	2983.8	2973.9
22.5°	2962.5	2966.8	2979.6	2975.3	2979.6	2966.8	2962.5	2951.1	2942.7	2927.0	2917.0
25°	2874.4	2878.6	2880.1	2881.5	2880.1	2878.6	2874.4	2864.4	2855.9	2844.5	2838.9
27.5°	2722.3	2722.3	2725.1	2726.6	2725.1	2722.3	2722.3	2715.2	2709.5	2703.8	2698.1
30°	2492.0	2492.0	2492.0	2499.1	2492.0	2492.0	2492.0	2490.6	2490.6	2492.0	2492.0
32.5°	2226.2	2223.3	2220.5	2223.3	2220.5	2223.3	2226.2	2227.6	2226.2	2230.4	2237.5
35°	1924.8	1923.4	1927.6	1922.0	1927.6	1923.4	1924.8	1924.8	1930.5	1936.2	1937.6
37.5°	1636.2	1633.4	1639.1	1633.4	1639.1	1633.4	1636.2	1634.8	1633.4	1636.2	1632.0
40°	1361.9	1364.7	1364.7	1376.1	1364.7	1364.7	1361.9	1359.0	1349.1	1343.4	1337.7
42.5°	1098.9	1107.4	1104.5	1113.1	1104.5	1107.4	1098.9	1093.2	1081.8	1071.8	1063.3
45°	850.1	855.8	855.8	858.6	855.8	855.8	850.1	844.4	834.4	825.9	820.2
47.5°	652.5	652.5	652.5	653.9	652.5	652.5	652.5	642.5	639.7	634.0	626.9
50°	496.1	497.5	499.0	500.4	499.0	497.5	496.1	493.3	491.9	489.0	487.6
52.5°	381.0	382.4	379.6	382.4	379.6	382.4	381.0	382.4	378.1	378.1	376.7
55°	288.6	287.2	288.6	290.0	288.6	287.2	288.6	288.6	287.2	287.2	287.2
57.5°	211.8	208.9	208.9	208.9	208.9	208.9	211.8	210.4	214.7	211.8	213.2
60°	157.8	159.2	159.2	160.6	159.2	159.2	157.8	160.6	160.6	162.1	162.1
62.5°	116.6	120.8	118.0	120.8	118.0	120.8	116.6	118.0	118.0	119.4	120.8
65°	75.4	75.4	75.4	76.8	75.4	75.4	75.4	76.8	78.2	76.8	81.0
67.5°	51.2	52.6	55.5	54.0	55.5	52.6	51.2	52.6	52.6	56.9	55.5
70°	41.3	37.0	37.0	41.3	37.0	37.0	41.3	38.4	37.0	39.8	38.4
72.5°	24.2	21.3	24.2	24.2	24.2	21.3	24.2	21.3	22.8	22.8	25.6
75°	12.8	11.4	9.9	14.2	9.9	11.4	12.8	12.8	12.8	12.8	14.2
77.5°	8.5	7.1	9.9	9.9	9.9	7.1	8.5	7.1	8.5	7.1	8.5
80°	4.3	5.7	4.3	7.1	4.3	5.7	4.3	7.1	4.3	5.7	5.7
82.5°	1.4	2.9	2.9	2.9	2.9	2.9	1.4	1.4	2.9	2.9	1.4
85°	0.0	2.9	1.4	1.4	1.4	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	0.0	0.0	1.4	0.0	0.0	1.4	0.0	0.0	0.0	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: P244571

CATALOG NUMBER: LSR8B50D010 EC8B50940 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3
2.5°	2941.2	2936.9	2938.4	2929.8	2929.8	2927.0	2928.4	2921.3	2918.5	2915.6	2919.9
5°	2983.8	2976.8	2971.0	2958.3	2951.1	2942.7	2938.4	2927.0	2917.0	2908.5	2907.1
7.5°	3018.0	3002.3	2992.4	2975.3	2962.5	2952.6	2938.4	2922.7	2909.9	2898.5	2890.1
10°	3032.2	3016.6	3000.9	2979.6	2965.4	2946.9	2932.6	2912.8	2895.7	2880.1	2870.1
12.5°	3033.6	3013.7	2999.5	2975.3	2956.8	2936.9	2921.3	2898.5	2878.6	2863.0	2847.4
15°	3020.8	3002.3	2985.3	2959.7	2941.2	2922.7	2904.3	2880.1	2861.6	2843.1	2831.8
17.5°	2992.4	2975.3	2955.4	2931.2	2914.2	2897.1	2877.2	2857.3	2836.0	2816.1	2801.9
20°	2955.4	2936.9	2919.9	2895.7	2881.5	2863.0	2844.5	2823.2	2806.1	2786.2	2770.6
22.5°	2900.0	2882.9	2867.3	2853.1	2830.3	2816.1	2803.3	2779.2	2762.1	2743.6	2726.6
25°	2820.4	2803.3	2790.5	2773.4	2763.5	2747.9	2735.1	2713.8	2698.1	2681.0	2666.8
27.5°	2689.6	2679.6	2672.5	2662.6	2654.1	2646.9	2639.9	2622.8	2611.4	2595.8	2581.6
30°	2493.4	2492.0	2487.7	2483.4	2489.1	2489.1	2489.1	2486.3	2476.4	2465.0	2455.0
32.5°	2241.8	2244.7	2250.3	2254.6	2266.0	2278.8	2290.1	2295.8	2295.8	2288.7	2284.4
35°	1941.9	1946.1	1954.7	1966.0	1980.2	1995.9	2021.4	2027.2	2031.4	2031.4	2025.7
37.5°	1630.5	1629.1	1637.6	1647.6	1656.1	1667.5	1686.0	1690.3	1697.3	1694.5	1688.8
40°	1327.7	1320.6	1317.8	1320.6	1330.6	1326.3	1330.6	1327.7	1327.7	1317.8	1317.8
42.5°	1047.7	1039.2	1033.4	1029.2	1029.2	1019.2	1012.1	1005.1	1000.8	993.7	992.3
45°	807.5	797.5	790.4	787.5	783.3	770.5	762.0	753.4	743.5	740.7	742.1
47.5°	626.9	617.0	614.1	607.0	599.9	592.8	587.1	577.2	575.7	570.0	575.7
50°	483.3	480.5	476.2	473.4	469.1	463.4	457.7	452.1	449.2	449.2	450.6
52.5°	375.3	376.7	372.4	368.2	365.4	365.4	358.2	356.8	356.8	351.1	356.8
55°	287.2	285.7	287.2	284.3	284.3	280.0	280.0	275.8	275.8	271.5	274.4
57.5°	210.4	213.2	210.4	211.8	214.7	210.4	208.9	204.7	207.5	204.7	206.1
60°	163.5	163.5	163.5	162.1	162.1	160.6	160.6	159.2	159.2	156.3	159.2
62.5°	120.8	122.2	122.2	122.2	123.7	122.2	120.8	122.2	120.8	120.8	122.2
65°	79.6	81.0	81.0	79.6	82.4	79.6	81.0	82.4	83.8	82.4	83.8
67.5°	54.0	54.0	55.5	56.9	55.5	56.9	58.3	56.9	58.3	61.1	58.3
70°	39.8	41.3	41.3	39.8	38.4	39.8	38.4	42.7	42.7	42.7	45.5
72.5°	25.6	25.6	24.2	24.2	24.2	24.2	24.2	28.4	25.6	24.2	27.0
75°	14.2	15.6	15.6	11.4	12.8	15.6	11.4	12.8	17.1	14.2	17.1
77.5°	8.5	8.5	8.5	8.5	8.5	8.5	11.4	9.9	9.9	9.9	11.4
80°	7.1	5.7	5.7	4.3	5.7	5.7	5.7	8.5	7.1	7.1	8.5
82.5°	2.9	2.9	1.4	0.0	2.9	2.9	2.9	2.9	2.9	2.9	5.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	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: P244571

CATALOG NUMBER: LSR8B50D010 EC8B50940 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3
2.5°	2908.5	2908.5	2907.1	2904.3	2898.5	2898.5	2897.1	2892.9	2890.1	2888.6	2888.6
5°	2894.3	2888.6	2882.9	2867.3	2867.3	2864.4	2855.9	2850.2	2847.4	2840.3	2837.4
7.5°	2881.5	2864.4	2854.5	2844.5	2831.8	2826.0	2816.1	2811.8	2801.9	2794.8	2790.5
10°	2850.2	2838.9	2826.0	2810.4	2800.5	2789.1	2777.7	2769.2	2756.4	2749.3	2743.6
12.5°	2828.9	2811.8	2800.5	2783.4	2766.4	2756.4	2740.8	2730.8	2718.0	2703.8	2695.3
15°	2809.0	2790.5	2774.9	2756.4	2737.9	2726.6	2708.1	2696.7	2678.2	2664.0	2654.1
17.5°	2779.2	2763.5	2746.5	2723.7	2706.7	2692.5	2672.5	2658.3	2641.3	2622.8	2612.8
20°	2747.9	2729.4	2712.3	2689.6	2672.5	2655.5	2635.6	2620.0	2600.0	2583.0	2571.6
22.5°	2706.7	2685.3	2671.1	2648.3	2628.4	2610.0	2591.5	2573.0	2554.5	2540.3	2527.5
25°	2646.9	2624.2	2608.5	2590.1	2571.6	2557.4	2534.6	2523.3	2504.8	2492.0	2479.2
27.5°	2561.6	2544.6	2530.4	2511.9	2496.3	2484.9	2467.8	2456.5	2440.8	2429.4	2419.5
30°	2436.6	2422.4	2409.5	2391.1	2379.7	2369.8	2354.1	2344.1	2332.8	2320.0	2317.2
32.5°	2268.8	2257.4	2244.7	2231.8	2223.3	2217.6	2204.8	2199.1	2187.8	2180.6	2173.6
35°	2015.8	2005.8	1998.7	1993.1	1990.2	1991.6	1988.8	1994.5	1997.3	1995.9	1997.3
37.5°	1684.6	1678.8	1681.7	1686.0	1700.2	1718.7	1735.7	1761.3	1778.4	1795.5	1811.1
40°	1315.0	1319.2	1330.6	1356.1	1393.1	1434.4	1472.8	1521.1	1569.4	1603.5	1634.8
42.5°	992.3	1005.1	1033.4	1070.4	1125.9	1187.0	1246.7	1317.8	1376.1	1432.9	1472.8
45°	746.3	763.4	800.3	851.5	912.6	983.7	1059.1	1138.7	1208.3	1266.6	1310.7
47.5°	581.4	597.1	634.0	688.0	763.4	837.3	915.5	997.9	1070.4	1127.3	1165.7
50°	459.1	479.0	511.8	568.6	644.0	722.2	803.2	884.2	952.5	1000.8	1034.9
52.5°	361.1	379.6	410.8	470.6	547.3	625.5	700.8	780.4	840.1	887.0	909.8
55°	280.0	297.1	329.8	379.6	452.1	528.8	604.1	672.4	727.8	762.0	783.3
57.5°	213.2	226.0	248.8	298.5	363.9	435.0	499.0	567.2	609.9	634.0	648.2
60°	162.1	172.0	196.2	234.6	294.3	355.4	409.4	460.6	494.7	514.6	528.8
62.5°	122.2	133.6	150.7	183.4	228.8	278.6	324.1	362.5	390.9	403.7	413.7
65°	83.8	92.4	105.2	130.8	169.2	204.7	240.3	268.7	287.2	301.4	307.1
67.5°	62.5	68.2	75.4	95.3	122.2	150.7	174.8	194.7	214.7	220.4	230.3
70°	46.9	51.2	58.3	72.5	88.1	108.0	128.0	139.3	153.5	163.5	166.4
72.5°	29.8	31.2	38.4	46.9	59.7	72.5	85.3	95.3	103.8	109.5	112.3
75°	17.1	25.6	25.6	34.1	42.7	48.3	56.9	64.0	68.2	72.5	72.5
77.5°	11.4	15.6	17.1	21.3	25.6	32.7	39.8	44.1	48.3	49.7	49.7
80°	9.9	11.4	11.4	15.6	18.5	24.2	28.4	29.8	32.7	34.1	37.0
82.5°	4.3	5.7	7.1	11.4	12.8	12.8	17.1	18.5	21.3	22.8	22.8
85°	1.4	2.9	2.9	4.3	7.1	8.5	9.9	11.4	12.8	12.8	14.2
87.5°	1.4	1.4	0.0	1.4	2.9	2.9	5.7	5.7	5.7	8.5	8.5
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: P244571

CATALOG NUMBER: LSR8B50D010 EC8B50940 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3	2911.3
2.5°	2885.8	2887.2	2881.5	2880.1	2877.2	2878.6	2881.5
5°	2833.2	2834.6	2828.9	2823.2	2823.2	2821.8	2823.2
7.5°	2783.4	2784.8	2776.3	2773.4	2767.8	2769.2	2769.2
10°	2733.6	2733.6	2720.9	2719.4	2715.2	2713.8	2713.8
12.5°	2685.3	2681.0	2671.1	2665.4	2668.3	2659.7	2659.7
15°	2642.7	2635.6	2622.8	2618.5	2611.4	2608.5	2608.5
17.5°	2598.6	2592.9	2581.6	2573.0	2564.5	2563.1	2564.5
20°	2555.9	2550.3	2536.1	2530.4	2523.3	2523.3	2520.4
22.5°	2513.3	2507.6	2494.9	2490.6	2480.6	2480.6	2482.0
25°	2469.2	2465.0	2450.7	2447.9	2446.5	2440.8	2443.7
27.5°	2409.5	2406.7	2395.3	2391.1	2385.4	2384.0	2386.8
30°	2300.1	2295.8	2287.3	2283.0	2273.1	2274.5	2277.3
32.5°	2163.6	2157.9	2146.5	2142.3	2133.8	2130.9	2132.3
35°	1993.1	1988.8	1978.8	1978.8	1970.3	1967.4	1970.3
37.5°	1819.6	1823.8	1819.6	1823.8	1819.6	1818.2	1819.6
40°	1656.1	1671.8	1674.6	1690.3	1684.6	1693.1	1691.7
42.5°	1499.7	1525.3	1535.3	1548.1	1545.3	1550.9	1555.2
45°	1341.9	1363.3	1373.2	1381.8	1383.2	1386.0	1387.4
47.5°	1192.7	1209.7	1211.2	1221.1	1219.7	1219.7	1224.0
50°	1053.4	1064.8	1067.6	1074.7	1069.0	1066.2	1067.6
52.5°	924.0	935.4	932.5	935.4	928.3	925.4	926.8
55°	791.8	797.5	797.5	797.5	789.0	789.0	789.0
57.5°	656.7	658.2	655.3	656.7	655.3	646.8	645.4
60°	533.1	533.1	531.6	533.1	528.8	524.6	524.6
62.5°	416.5	419.4	425.0	419.4	416.5	419.4	415.1
65°	311.3	317.0	315.6	318.4	317.0	317.0	314.2
67.5°	234.6	236.0	237.4	238.8	238.8	238.8	238.8
70°	172.0	176.3	174.8	174.8	174.8	174.8	183.4
72.5°	115.2	120.8	119.4	122.2	122.2	125.1	122.2
75°	78.2	83.8	81.0	85.3	83.8	81.0	88.1
77.5°	52.6	55.5	56.9	58.3	56.9	55.5	56.9
80°	37.0	39.8	38.4	39.8	39.8	39.8	41.3
82.5°	22.8	27.0	25.6	27.0	25.6	27.0	27.0
85°	15.6	17.1	14.2	17.1	15.6	15.6	18.5
87.5°	9.9	8.5	8.5	9.9	8.5	9.9	8.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)