

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: P245867

Luminaire Tested: **LSR8B50D010 EC8B50940 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245867
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 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4538.0 lumens
Efficiency: N/A
Efficacy: 85.6 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

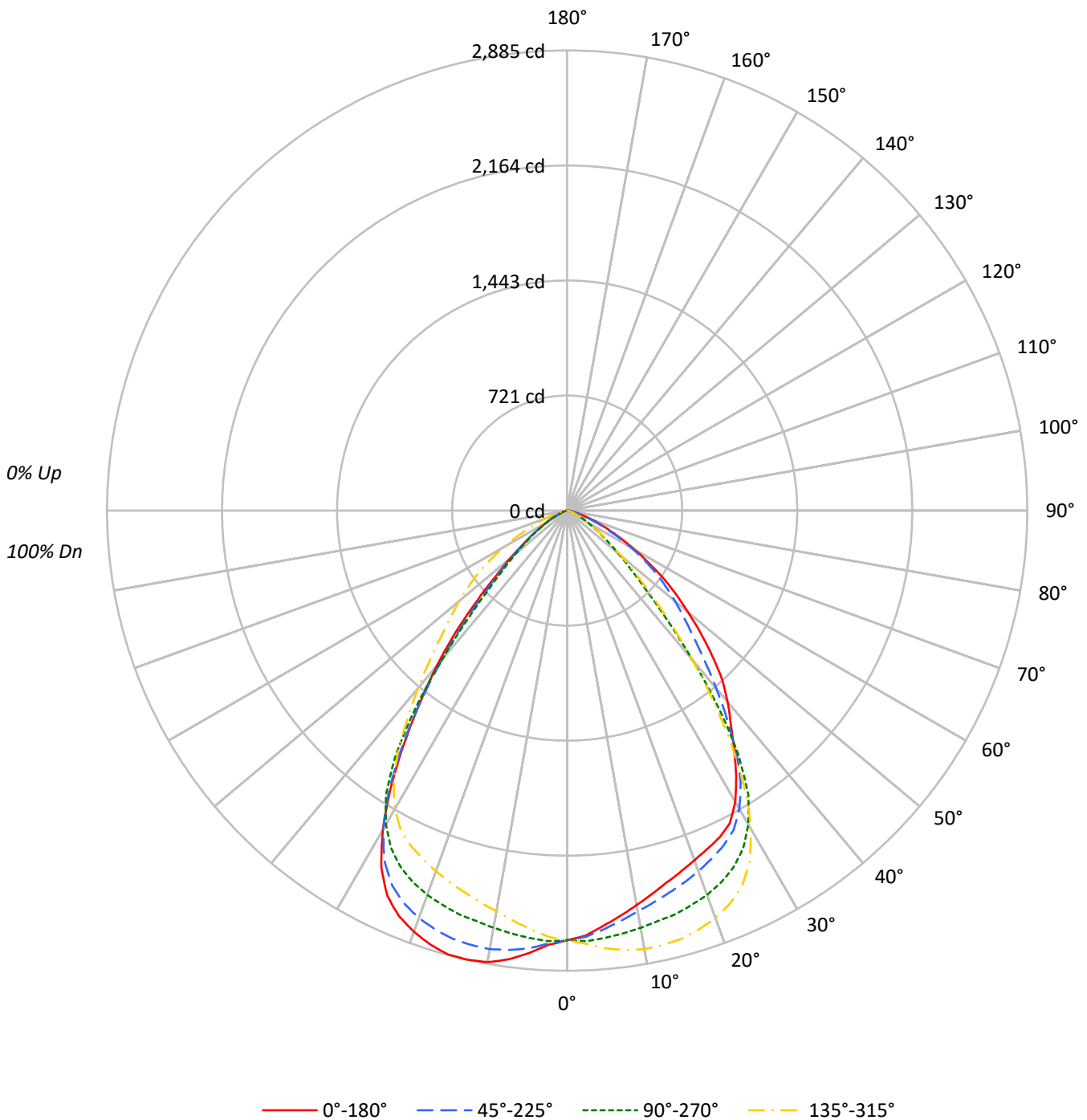
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	83076	83076	83076	83076
5°	80868	83270	86244	83270
10°	78631	83162	90000	83162
15°	77062	83654	91970	83654
20°	76535	84132	92204	84132
25°	76939	83965	90725	83965
30°	75034	80891	82344	80891
35°	68633	70564	66950	70564
40°	63014	49086	51259	49086
45°	55990	29946	34647	29946
50°	47392	20005	22216	20005
55°	39251	13650	14424	13650
60°	29936	9084	9165	9084
65°	21211	5662	5181	5662
70°	15300	3796	3444	3796
75°	9710	1882	1573	1882
80°	6784	1403	1172	1403
85°	6050	0	460	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.4	5.7
10°-20°	742.6	16.4
20°-30°	1124.4	24.8
30°-40°	1126.9	24.8
40°-50°	707.6	15.6
50°-60°	377.1	8.3
60°-70°	155.1	3.4
70°-80°	41.0	0.9
80°-90°	6.9	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°	2123.4	46.8
0°-40°	3250.3	71.6
0°-60°	4335.0	95.5
0°-90°	4538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4538.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2694	2694	2694	2694	2694	
5°	2612	2690	2786	2690	2612	246
15°	2414	2620	2881	2620	2414	683
25°	2261	2468	2666	2468	2261	1037
35°	1823	1874	1778	1874	1823	1142
45°	1284	687	794	687	1284	987
55°	730	254	268	254	730	651
65°	291	78	71	78	291	302
75°	82	16	13	16	82	92
85°	17	0	1	0	17	19
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°	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1
2.5°	2666.5	2663.8	2662.5	2665.2	2666.5	2671.7	2670.4	2673.0	2673.0	2674.4	2677.0
5°	2612.5	2611.2	2612.5	2612.5	2617.8	2623.0	2621.7	2625.7	2628.3	2634.9	2637.5
7.5°	2562.5	2562.5	2561.2	2566.4	2569.1	2577.0	2575.7	2582.3	2586.2	2592.8	2602.0
10°	2511.2	2511.2	2512.5	2516.5	2517.8	2529.6	2529.6	2538.8	2544.1	2550.7	2562.5
12.5°	2461.2	2461.2	2469.1	2466.5	2471.7	2480.9	2484.9	2494.1	2502.0	2515.2	2527.0
15°	2413.9	2413.9	2416.5	2423.1	2427.0	2438.9	2445.4	2456.0	2465.2	2478.4	2495.5
17.5°	2373.1	2371.8	2373.1	2381.0	2388.9	2399.4	2404.7	2417.8	2427.0	2444.1	2459.9
20°	2332.3	2335.0	2335.0	2341.5	2346.8	2359.9	2365.2	2379.7	2390.2	2406.0	2424.4
22.5°	2296.8	2295.5	2295.5	2304.7	2308.7	2320.5	2325.7	2338.9	2350.7	2363.9	2381.0
25°	2261.3	2258.6	2263.9	2265.2	2267.8	2281.0	2284.9	2294.1	2306.0	2317.9	2335.0
27.5°	2208.7	2206.1	2207.4	2212.6	2216.6	2227.1	2229.7	2238.9	2248.1	2258.6	2273.1
30°	2107.3	2104.7	2103.4	2112.7	2116.6	2124.5	2128.4	2144.2	2146.8	2158.7	2169.2
32.5°	1973.2	1971.9	1974.5	1982.4	1986.3	1996.9	2002.1	2011.3	2017.9	2024.5	2035.0
35°	1823.2	1820.6	1823.2	1831.1	1831.1	1840.4	1844.3	1848.2	1846.9	1848.2	1845.6
37.5°	1683.8	1682.5	1683.8	1687.7	1683.8	1687.7	1683.8	1675.9	1661.5	1645.6	1629.8
40°	1565.4	1566.7	1558.9	1564.1	1549.6	1547.0	1532.5	1512.8	1483.9	1452.3	1407.6
42.5°	1439.1	1435.2	1429.9	1432.5	1420.7	1411.5	1387.8	1362.8	1326.0	1273.4	1219.4
45°	1283.9	1282.6	1279.9	1278.6	1270.7	1261.5	1241.8	1212.9	1172.1	1118.2	1053.7
47.5°	1132.6	1128.7	1128.7	1130.0	1120.8	1119.5	1103.6	1078.7	1043.2	990.5	923.5
50°	987.9	986.6	989.2	994.5	987.9	985.3	974.8	957.7	926.1	881.4	818.2
52.5°	857.7	856.4	859.0	865.6	862.9	865.6	855.1	841.9	820.8	777.4	722.2
55°	730.1	730.1	730.1	737.9	737.9	737.9	732.7	724.8	705.1	673.5	622.2
57.5°	597.2	598.5	606.4	607.7	606.4	609.1	607.7	599.8	586.7	564.4	524.9
60°	485.4	485.4	489.4	493.3	492.0	493.3	493.3	489.4	476.2	457.8	426.2
62.5°	384.1	388.1	385.4	388.1	393.3	388.1	385.4	382.8	373.6	361.7	335.4
65°	290.7	293.4	293.4	294.7	292.0	293.4	288.1	284.2	278.9	265.7	248.6
67.5°	221.0	221.0	221.0	221.0	219.7	218.4	217.1	213.1	203.9	198.7	180.2
70°	169.7	161.8	161.8	161.8	161.8	163.1	159.2	153.9	151.3	142.1	128.9
72.5°	113.1	115.8	113.1	113.1	110.5	111.8	106.6	103.9	101.3	96.1	88.1
75°	81.5	75.0	77.6	78.9	75.0	77.6	72.3	67.1	67.1	63.1	59.2
77.5°	52.6	51.3	52.6	53.9	52.6	51.3	48.7	46.0	46.0	44.7	40.8
80°	38.2	36.8	36.8	36.8	35.5	36.8	34.2	34.2	31.6	30.3	27.6
82.5°	25.0	25.0	23.7	25.0	23.7	25.0	21.1	21.1	21.1	19.7	17.1
85°	17.1	14.5	14.5	15.8	13.2	15.8	14.5	13.2	11.9	11.9	10.5
87.5°	7.9	9.2	7.9	9.2	7.9	7.9	9.2	7.9	7.9	5.3	5.3
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°	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1
2.5°	2680.9	2682.2	2682.2	2687.5	2690.1	2691.4	2691.4	2702.0	2698.0	2700.7	2703.3
5°	2642.8	2650.6	2653.3	2653.3	2667.8	2673.0	2678.3	2690.1	2691.4	2699.3	2708.5
7.5°	2605.9	2615.1	2620.4	2632.2	2641.4	2650.6	2666.5	2674.4	2682.2	2692.8	2704.6
10°	2570.4	2581.0	2591.5	2600.7	2615.1	2627.0	2637.5	2655.9	2665.2	2679.6	2695.4
12.5°	2536.2	2550.7	2559.9	2575.7	2591.5	2602.0	2617.8	2634.9	2649.3	2663.8	2682.2
15°	2506.0	2523.1	2533.6	2550.7	2567.8	2582.3	2599.4	2620.4	2630.9	2648.0	2665.2
17.5°	2473.0	2491.5	2504.7	2520.4	2541.5	2557.2	2571.8	2592.8	2605.9	2624.3	2644.1
20°	2438.9	2457.3	2473.0	2488.9	2509.9	2525.7	2542.8	2563.8	2578.3	2596.7	2612.5
22.5°	2398.1	2415.2	2432.3	2450.7	2471.7	2484.9	2504.7	2523.1	2538.8	2555.9	2571.8
25°	2345.5	2366.5	2379.7	2396.8	2413.9	2428.3	2449.4	2467.8	2480.9	2496.8	2511.2
27.5°	2283.6	2299.5	2310.0	2324.4	2341.5	2354.7	2370.4	2388.9	2402.1	2416.5	2427.0
30°	2178.4	2192.9	2202.1	2212.6	2229.7	2241.6	2254.7	2271.8	2281.0	2291.5	2300.8
32.5°	2040.3	2052.1	2057.4	2065.3	2077.1	2088.9	2099.5	2114.0	2117.9	2124.5	2124.5
35°	1840.4	1843.0	1841.7	1844.3	1849.6	1856.1	1865.3	1874.5	1879.8	1879.8	1875.9
37.5°	1606.2	1590.4	1573.3	1560.2	1556.2	1553.5	1558.9	1562.7	1568.1	1570.7	1564.1
40°	1362.8	1327.3	1289.2	1254.9	1231.3	1220.8	1216.8	1219.4	1219.4	1228.6	1228.6
42.5°	1153.7	1098.4	1041.9	990.5	956.3	930.1	918.2	918.2	919.5	926.1	930.1
45°	980.0	910.3	844.5	788.0	740.6	706.4	690.6	686.7	685.4	688.0	697.2
47.5°	847.2	774.8	706.4	636.7	586.7	552.5	538.0	532.7	527.5	532.7	534.1
50°	743.3	668.3	595.9	526.2	473.6	443.3	424.9	417.0	415.7	415.7	418.3
52.5°	648.5	578.8	506.5	435.4	380.2	351.2	334.1	330.2	324.9	330.2	330.2
55°	559.1	489.4	418.3	351.2	305.2	275.0	259.1	253.9	251.2	255.2	255.2
57.5°	461.8	402.5	336.8	276.3	230.2	209.2	197.3	190.8	189.4	192.1	189.4
60°	378.9	328.9	272.3	217.1	181.6	159.2	150.0	147.3	144.7	147.3	147.3
62.5°	299.9	257.8	211.8	169.7	139.4	123.7	113.1	113.1	111.8	111.8	113.1
65°	222.3	189.4	156.5	121.0	97.4	85.5	77.6	77.6	76.3	77.6	76.3
67.5°	161.8	139.4	113.1	88.1	69.7	63.1	57.9	53.9	56.6	53.9	52.6
70°	118.4	100.0	81.5	67.1	53.9	47.4	43.4	42.1	39.5	39.5	39.5
72.5°	78.9	67.1	55.2	43.4	35.5	28.9	27.6	25.0	22.4	23.7	26.3
75°	52.6	44.7	39.5	31.6	23.7	23.7	15.8	15.8	13.2	15.8	11.9
77.5°	36.8	30.3	23.7	19.7	15.8	14.5	10.5	10.5	9.2	9.2	9.2
80°	26.3	22.4	17.1	14.5	10.5	10.5	9.2	7.9	6.6	6.6	7.9
82.5°	15.8	11.9	11.9	10.5	6.6	5.3	4.0	5.3	2.7	2.7	2.7
85°	9.2	7.9	6.6	4.0	2.7	2.7	1.3	0.0	1.3	1.3	0.0
87.5°	5.3	2.7	2.7	1.3	0.0	1.3	1.3	0.0	0.0	0.0	2.7
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1
2.5°	2709.9	2708.5	2711.2	2711.2	2719.1	2717.7	2721.7	2721.7	2719.1	2720.4	2725.6
5°	2719.1	2723.0	2730.9	2737.5	2749.3	2754.6	2761.2	2767.8	2769.1	2773.0	2777.0
7.5°	2719.1	2732.2	2741.4	2753.2	2769.1	2778.3	2792.7	2804.6	2809.8	2816.4	2824.3
10°	2713.8	2726.9	2744.0	2757.2	2777.0	2791.4	2805.9	2824.3	2832.2	2842.7	2853.3
12.5°	2703.3	2717.7	2736.1	2753.2	2775.6	2788.8	2807.2	2824.3	2836.1	2850.6	2862.5
15°	2687.5	2704.6	2721.7	2738.8	2762.5	2778.3	2795.4	2815.1	2826.9	2842.7	2853.3
17.5°	2662.5	2680.9	2696.7	2712.5	2734.8	2753.2	2769.1	2787.5	2799.3	2812.5	2826.9
20°	2632.2	2649.3	2666.5	2679.6	2702.0	2717.7	2734.8	2751.9	2761.2	2763.8	2786.2
22.5°	2594.1	2605.9	2619.1	2640.1	2653.3	2667.8	2683.6	2699.3	2708.5	2723.0	2730.9
25°	2530.9	2542.8	2557.2	2566.4	2582.3	2594.1	2609.9	2627.0	2632.2	2642.8	2650.6
27.5°	2442.8	2449.4	2456.0	2463.8	2473.0	2479.7	2488.9	2496.8	2502.0	2507.3	2512.5
30°	2303.4	2303.4	2303.4	2298.1	2302.1	2306.0	2307.3	2306.0	2306.0	2304.7	2304.7
32.5°	2119.2	2108.7	2096.8	2086.3	2082.4	2077.1	2074.5	2070.5	2064.0	2060.0	2061.3
35°	1870.6	1846.9	1832.4	1819.3	1808.8	1800.9	1796.9	1793.0	1791.7	1786.4	1781.1
37.5°	1560.2	1543.0	1532.5	1524.6	1515.4	1507.5	1508.8	1510.2	1514.1	1511.5	1512.8
40°	1231.3	1227.3	1231.3	1222.1	1219.4	1222.1	1228.6	1237.9	1243.1	1248.4	1257.6
42.5°	936.6	943.2	952.4	952.4	956.3	961.6	969.5	984.0	991.8	1001.0	1011.6
45°	705.1	713.0	724.8	728.7	731.4	737.9	747.2	759.0	764.3	772.2	781.4
47.5°	543.3	548.5	555.1	561.7	568.3	570.9	580.1	580.1	586.7	592.0	594.6
50°	423.6	428.8	434.1	438.0	440.7	444.6	447.2	451.2	452.5	455.1	456.4
52.5°	331.5	338.1	338.1	340.7	344.6	348.6	347.3	348.6	349.9	349.9	353.8
55°	259.1	259.1	263.1	263.1	265.7	264.4	265.7	265.7	265.7	265.7	267.0
57.5°	193.4	194.7	198.7	196.0	194.7	197.3	194.7	197.3	196.0	198.7	194.7
60°	148.6	148.6	150.0	150.0	151.3	151.3	151.3	150.0	150.0	148.6	148.6
62.5°	111.8	113.1	114.5	113.1	113.1	113.1	111.8	111.8	110.5	109.2	109.2
65°	75.0	73.7	76.3	73.7	75.0	75.0	73.7	75.0	71.0	72.3	71.0
67.5°	53.9	52.6	51.3	52.6	51.3	50.0	50.0	51.3	52.6	48.7	48.7
70°	35.5	36.8	35.5	36.8	38.2	38.2	36.8	35.5	36.8	34.2	35.5
72.5°	22.4	22.4	22.4	22.4	22.4	23.7	23.7	23.7	21.1	21.1	19.7
75°	10.5	14.5	11.9	10.5	14.5	14.5	13.2	13.2	11.9	11.9	11.9
77.5°	10.5	7.9	7.9	7.9	7.9	7.9	7.9	7.9	6.6	7.9	6.6
80°	5.3	5.3	5.3	4.0	5.3	5.3	6.6	5.3	5.3	4.0	6.6
82.5°	2.7	2.7	2.7	0.0	1.3	2.7	2.7	1.3	2.7	2.7	1.3
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: P245867

CATALOG NUMBER: LSR8B50D010 EC8B50940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1
2.5°	2724.3	2723.0	2724.3	2725.6	2724.3	2723.0	2724.3	2725.6	2720.4	2719.1	2721.7
5°	2782.2	2782.2	2784.8	2786.2	2784.8	2782.2	2782.2	2777.0	2773.0	2769.1	2767.8
7.5°	2832.2	2834.8	2837.4	2838.7	2837.4	2834.8	2832.2	2824.3	2816.4	2809.8	2804.6
10°	2862.5	2866.4	2871.7	2874.3	2871.7	2866.4	2862.5	2853.3	2842.7	2832.2	2824.3
12.5°	2875.6	2879.6	2886.1	2884.8	2886.1	2879.6	2875.6	2862.5	2850.6	2836.1	2824.3
15°	2866.4	2871.7	2878.2	2880.9	2878.2	2871.7	2866.4	2853.3	2842.7	2826.9	2815.1
17.5°	2837.4	2845.3	2849.3	2853.3	2849.3	2845.3	2837.4	2826.9	2812.5	2799.3	2787.5
20°	2798.0	2803.3	2808.5	2809.8	2808.5	2803.3	2798.0	2786.2	2763.8	2761.2	2751.9
22.5°	2741.4	2745.4	2757.2	2753.2	2757.2	2745.4	2741.4	2730.9	2723.0	2708.5	2699.3
25°	2659.8	2663.8	2665.2	2666.5	2665.2	2663.8	2659.8	2650.6	2642.8	2632.2	2627.0
27.5°	2519.1	2519.1	2521.7	2523.1	2521.7	2519.1	2519.1	2512.5	2507.3	2502.0	2496.8
30°	2306.0	2306.0	2306.0	2312.6	2306.0	2306.0	2306.0	2304.7	2304.7	2306.0	2306.0
32.5°	2060.0	2057.4	2054.8	2057.4	2054.8	2057.4	2060.0	2061.3	2060.0	2064.0	2070.5
35°	1781.1	1779.8	1783.8	1778.5	1783.8	1779.8	1781.1	1781.1	1786.4	1791.7	1793.0
37.5°	1514.1	1511.5	1516.7	1511.5	1516.7	1511.5	1514.1	1512.8	1511.5	1514.1	1510.2
40°	1260.2	1262.8	1262.8	1273.4	1262.8	1262.8	1260.2	1257.6	1248.4	1243.1	1237.9
42.5°	1016.9	1024.8	1022.1	1030.0	1022.1	1024.8	1016.9	1011.6	1001.0	991.8	984.0
45°	786.6	791.9	791.9	794.5	791.9	791.9	786.6	781.4	772.2	764.3	759.0
47.5°	603.8	603.8	603.8	605.1	603.8	603.8	603.8	594.6	592.0	586.7	580.1
50°	459.1	460.4	461.8	463.1	461.8	460.4	459.1	456.4	455.1	452.5	451.2
52.5°	352.5	353.8	351.2	353.8	351.2	353.8	352.5	353.8	349.9	349.9	348.6
55°	267.0	265.7	267.0	268.3	267.0	265.7	267.0	267.0	265.7	265.7	265.7
57.5°	196.0	193.4	193.4	193.4	193.4	193.4	196.0	194.7	198.7	196.0	197.3
60°	146.0	147.3	147.3	148.6	147.3	147.3	146.0	148.6	148.6	150.0	150.0
62.5°	107.9	111.8	109.2	111.8	109.2	111.8	107.9	109.2	109.2	110.5	111.8
65°	69.7	69.7	69.7	71.0	69.7	69.7	69.7	71.0	72.3	71.0	75.0
67.5°	47.4	48.7	51.3	50.0	51.3	48.7	47.4	48.7	48.7	52.6	51.3
70°	38.2	34.2	34.2	38.2	34.2	34.2	38.2	35.5	34.2	36.8	35.5
72.5°	22.4	19.7	22.4	22.4	22.4	19.7	22.4	19.7	21.1	21.1	23.7
75°	11.9	10.5	9.2	13.2	9.2	10.5	11.9	11.9	11.9	11.9	13.2
77.5°	7.9	6.6	9.2	9.2	9.2	6.6	7.9	6.6	7.9	6.6	7.9
80°	4.0	5.3	4.0	6.6	4.0	5.3	4.0	6.6	4.0	5.3	5.3
82.5°	1.3	2.7	2.7	2.7	2.7	2.7	1.3	1.3	2.7	2.7	1.3
85°	0.0	2.7	1.3	1.3	1.3	2.7	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.0	0.0	1.3	0.0	0.0	1.3	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: P245867

CATALOG NUMBER: LSR8B50D010 EC8B50940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1
2.5°	2721.7	2717.7	2719.1	2711.2	2711.2	2708.5	2709.9	2703.3	2700.7	2698.0	2702.0
5°	2761.2	2754.6	2749.3	2737.5	2730.9	2723.0	2719.1	2708.5	2699.3	2691.4	2690.1
7.5°	2792.7	2778.3	2769.1	2753.2	2741.4	2732.2	2719.1	2704.6	2692.8	2682.2	2674.4
10°	2805.9	2791.4	2777.0	2757.2	2744.0	2726.9	2713.8	2695.4	2679.6	2665.2	2655.9
12.5°	2807.2	2788.8	2775.6	2753.2	2736.1	2717.7	2703.3	2682.2	2663.8	2649.3	2634.9
15°	2795.4	2778.3	2762.5	2738.8	2721.7	2704.6	2687.5	2665.2	2648.0	2630.9	2620.4
17.5°	2769.1	2753.2	2734.8	2712.5	2696.7	2680.9	2662.5	2644.1	2624.3	2605.9	2592.8
20°	2734.8	2717.7	2702.0	2679.6	2666.5	2649.3	2632.2	2612.5	2596.7	2578.3	2563.8
22.5°	2683.6	2667.8	2653.3	2640.1	2619.1	2605.9	2594.1	2571.8	2555.9	2538.8	2523.1
25°	2609.9	2594.1	2582.3	2566.4	2557.2	2542.8	2530.9	2511.2	2496.8	2480.9	2467.8
27.5°	2488.9	2479.7	2473.0	2463.8	2456.0	2449.4	2442.8	2427.0	2416.5	2402.1	2388.9
30°	2307.3	2306.0	2302.1	2298.1	2303.4	2303.4	2303.4	2300.8	2291.5	2281.0	2271.8
32.5°	2074.5	2077.1	2082.4	2086.3	2096.8	2108.7	2119.2	2124.5	2124.5	2117.9	2114.0
35°	1796.9	1800.9	1808.8	1819.3	1832.4	1846.9	1870.6	1875.9	1879.8	1879.8	1874.5
37.5°	1508.8	1507.5	1515.4	1524.6	1532.5	1543.0	1560.2	1564.1	1570.7	1568.1	1562.7
40°	1228.6	1222.1	1219.4	1222.1	1231.3	1227.3	1231.3	1228.6	1228.6	1219.4	1219.4
42.5°	969.5	961.6	956.3	952.4	952.4	943.2	936.6	930.1	926.1	919.5	918.2
45°	747.2	737.9	731.4	728.7	724.8	713.0	705.1	697.2	688.0	685.4	686.7
47.5°	580.1	570.9	568.3	561.7	555.1	548.5	543.3	534.1	532.7	527.5	532.7
50°	447.2	444.6	440.7	438.0	434.1	428.8	423.6	418.3	415.7	415.7	417.0
52.5°	347.3	348.6	344.6	340.7	338.1	338.1	331.5	330.2	330.2	324.9	330.2
55°	265.7	264.4	265.7	263.1	263.1	259.1	259.1	255.2	255.2	251.2	253.9
57.5°	194.7	197.3	194.7	196.0	198.7	194.7	193.4	189.4	192.1	189.4	190.8
60°	151.3	151.3	151.3	150.0	150.0	148.6	148.6	147.3	147.3	144.7	147.3
62.5°	111.8	113.1	113.1	113.1	114.5	113.1	111.8	113.1	111.8	111.8	113.1
65°	73.7	75.0	75.0	73.7	76.3	73.7	75.0	76.3	77.6	76.3	77.6
67.5°	50.0	50.0	51.3	52.6	51.3	52.6	53.9	52.6	53.9	56.6	53.9
70°	36.8	38.2	38.2	36.8	35.5	36.8	35.5	39.5	39.5	39.5	42.1
72.5°	23.7	23.7	22.4	22.4	22.4	22.4	22.4	26.3	23.7	22.4	25.0
75°	13.2	14.5	14.5	10.5	11.9	14.5	10.5	11.9	15.8	13.2	15.8
77.5°	7.9	7.9	7.9	7.9	7.9	7.9	10.5	9.2	9.2	9.2	10.5
80°	6.6	5.3	5.3	4.0	5.3	5.3	5.3	7.9	6.6	6.6	7.9
82.5°	2.7	2.7	1.3	0.0	2.7	2.7	2.7	2.7	2.7	2.7	5.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	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: P245867

CATALOG NUMBER: LSR8B50D010 EC8B50940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1
2.5°	2691.4	2691.4	2690.1	2687.5	2682.2	2682.2	2680.9	2677.0	2674.4	2673.0	2673.0
5°	2678.3	2673.0	2667.8	2653.3	2653.3	2650.6	2642.8	2637.5	2634.9	2628.3	2625.7
7.5°	2666.5	2650.6	2641.4	2632.2	2620.4	2615.1	2605.9	2602.0	2592.8	2586.2	2582.3
10°	2637.5	2627.0	2615.1	2600.7	2591.5	2581.0	2570.4	2562.5	2550.7	2544.1	2538.8
12.5°	2617.8	2602.0	2591.5	2575.7	2559.9	2550.7	2536.2	2527.0	2515.2	2502.0	2494.1
15°	2599.4	2582.3	2567.8	2550.7	2533.6	2523.1	2506.0	2495.5	2478.4	2465.2	2456.0
17.5°	2571.8	2557.2	2541.5	2520.4	2504.7	2491.5	2473.0	2459.9	2444.1	2427.0	2417.8
20°	2542.8	2525.7	2509.9	2488.9	2473.0	2457.3	2438.9	2424.4	2406.0	2390.2	2379.7
22.5°	2504.7	2484.9	2471.7	2450.7	2432.3	2415.2	2398.1	2381.0	2363.9	2350.7	2338.9
25°	2449.4	2428.3	2413.9	2396.8	2379.7	2366.5	2345.5	2335.0	2317.9	2306.0	2294.1
27.5°	2370.4	2354.7	2341.5	2324.4	2310.0	2299.5	2283.6	2273.1	2258.6	2248.1	2238.9
30°	2254.7	2241.6	2229.7	2212.6	2202.1	2192.9	2178.4	2169.2	2158.7	2146.8	2144.2
32.5°	2099.5	2088.9	2077.1	2065.3	2057.4	2052.1	2040.3	2035.0	2024.5	2017.9	2011.3
35°	1865.3	1856.1	1849.6	1844.3	1841.7	1843.0	1840.4	1845.6	1848.2	1846.9	1848.2
37.5°	1558.9	1553.5	1556.2	1560.2	1573.3	1590.4	1606.2	1629.8	1645.6	1661.5	1675.9
40°	1216.8	1220.8	1231.3	1254.9	1289.2	1327.3	1362.8	1407.6	1452.3	1483.9	1512.8
42.5°	918.2	930.1	956.3	990.5	1041.9	1098.4	1153.7	1219.4	1273.4	1326.0	1362.8
45°	690.6	706.4	740.6	788.0	844.5	910.3	980.0	1053.7	1118.2	1172.1	1212.9
47.5°	538.0	552.5	586.7	636.7	706.4	774.8	847.2	923.5	990.5	1043.2	1078.7
50°	424.9	443.3	473.6	526.2	595.9	668.3	743.3	818.2	881.4	926.1	957.7
52.5°	334.1	351.2	380.2	435.4	506.5	578.8	648.5	722.2	777.4	820.8	841.9
55°	259.1	275.0	305.2	351.2	418.3	489.4	559.1	622.2	673.5	705.1	724.8
57.5°	197.3	209.2	230.2	276.3	336.8	402.5	461.8	524.9	564.4	586.7	599.8
60°	150.0	159.2	181.6	217.1	272.3	328.9	378.9	426.2	457.8	476.2	489.4
62.5°	113.1	123.7	139.4	169.7	211.8	257.8	299.9	335.4	361.7	373.6	382.8
65°	77.6	85.5	97.4	121.0	156.5	189.4	222.3	248.6	265.7	278.9	284.2
67.5°	57.9	63.1	69.7	88.1	113.1	139.4	161.8	180.2	198.7	203.9	213.1
70°	43.4	47.4	53.9	67.1	81.5	100.0	118.4	128.9	142.1	151.3	153.9
72.5°	27.6	28.9	35.5	43.4	55.2	67.1	78.9	88.1	96.1	101.3	103.9
75°	15.8	23.7	23.7	31.6	39.5	44.7	52.6	59.2	63.1	67.1	67.1
77.5°	10.5	14.5	15.8	19.7	23.7	30.3	36.8	40.8	44.7	46.0	46.0
80°	9.2	10.5	10.5	14.5	17.1	22.4	26.3	27.6	30.3	31.6	34.2
82.5°	4.0	5.3	6.6	10.5	11.9	11.9	15.8	17.1	19.7	21.1	21.1
85°	1.3	2.7	2.7	4.0	6.6	7.9	9.2	10.5	11.9	11.9	13.2
87.5°	1.3	1.3	0.0	1.3	2.7	2.7	5.3	5.3	5.3	7.9	7.9
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: P245867

CATALOG NUMBER: LSR8B50D010 EC8B50940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1	2694.1
2.5°	2670.4	2671.7	2666.5	2665.2	2662.5	2663.8	2666.5
5°	2621.7	2623.0	2617.8	2612.5	2612.5	2611.2	2612.5
7.5°	2575.7	2577.0	2569.1	2566.4	2561.2	2562.5	2562.5
10°	2529.6	2529.6	2517.8	2516.5	2512.5	2511.2	2511.2
12.5°	2484.9	2480.9	2471.7	2466.5	2469.1	2461.2	2461.2
15°	2445.4	2438.9	2427.0	2423.1	2416.5	2413.9	2413.9
17.5°	2404.7	2399.4	2388.9	2381.0	2373.1	2371.8	2373.1
20°	2365.2	2359.9	2346.8	2341.5	2335.0	2335.0	2332.3
22.5°	2325.7	2320.5	2308.7	2304.7	2295.5	2295.5	2296.8
25°	2284.9	2281.0	2267.8	2265.2	2263.9	2258.6	2261.3
27.5°	2229.7	2227.1	2216.6	2212.6	2207.4	2206.1	2208.7
30°	2128.4	2124.5	2116.6	2112.7	2103.4	2104.7	2107.3
32.5°	2002.1	1996.9	1986.3	1982.4	1974.5	1971.9	1973.2
35°	1844.3	1840.4	1831.1	1831.1	1823.2	1820.6	1823.2
37.5°	1683.8	1687.7	1683.8	1687.7	1683.8	1682.5	1683.8
40°	1532.5	1547.0	1549.6	1564.1	1558.9	1566.7	1565.4
42.5°	1387.8	1411.5	1420.7	1432.5	1429.9	1435.2	1439.1
45°	1241.8	1261.5	1270.7	1278.6	1279.9	1282.6	1283.9
47.5°	1103.6	1119.5	1120.8	1130.0	1128.7	1128.7	1132.6
50°	974.8	985.3	987.9	994.5	989.2	986.6	987.9
52.5°	855.1	865.6	862.9	865.6	859.0	856.4	857.7
55°	732.7	737.9	737.9	737.9	730.1	730.1	730.1
57.5°	607.7	609.1	606.4	607.7	606.4	598.5	597.2
60°	493.3	493.3	492.0	493.3	489.4	485.4	485.4
62.5°	385.4	388.1	393.3	388.1	385.4	388.1	384.1
65°	288.1	293.4	292.0	294.7	293.4	293.4	290.7
67.5°	217.1	218.4	219.7	221.0	221.0	221.0	221.0
70°	159.2	163.1	161.8	161.8	161.8	161.8	169.7
72.5°	106.6	111.8	110.5	113.1	113.1	115.8	113.1
75°	72.3	77.6	75.0	78.9	77.6	75.0	81.5
77.5°	48.7	51.3	52.6	53.9	52.6	51.3	52.6
80°	34.2	36.8	35.5	36.8	36.8	36.8	38.2
82.5°	21.1	25.0	23.7	25.0	23.7	25.0	25.0
85°	14.5	15.8	13.2	15.8	14.5	14.5	17.1
87.5°	9.2	7.9	7.9	9.2	7.9	9.2	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)