

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: P245969

Luminaire Tested: **LSR8B50D010 EC8B50830 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245969
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 EC8B50830 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5239.0 lumens
Efficiency: N/A
Efficacy: 98.8 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

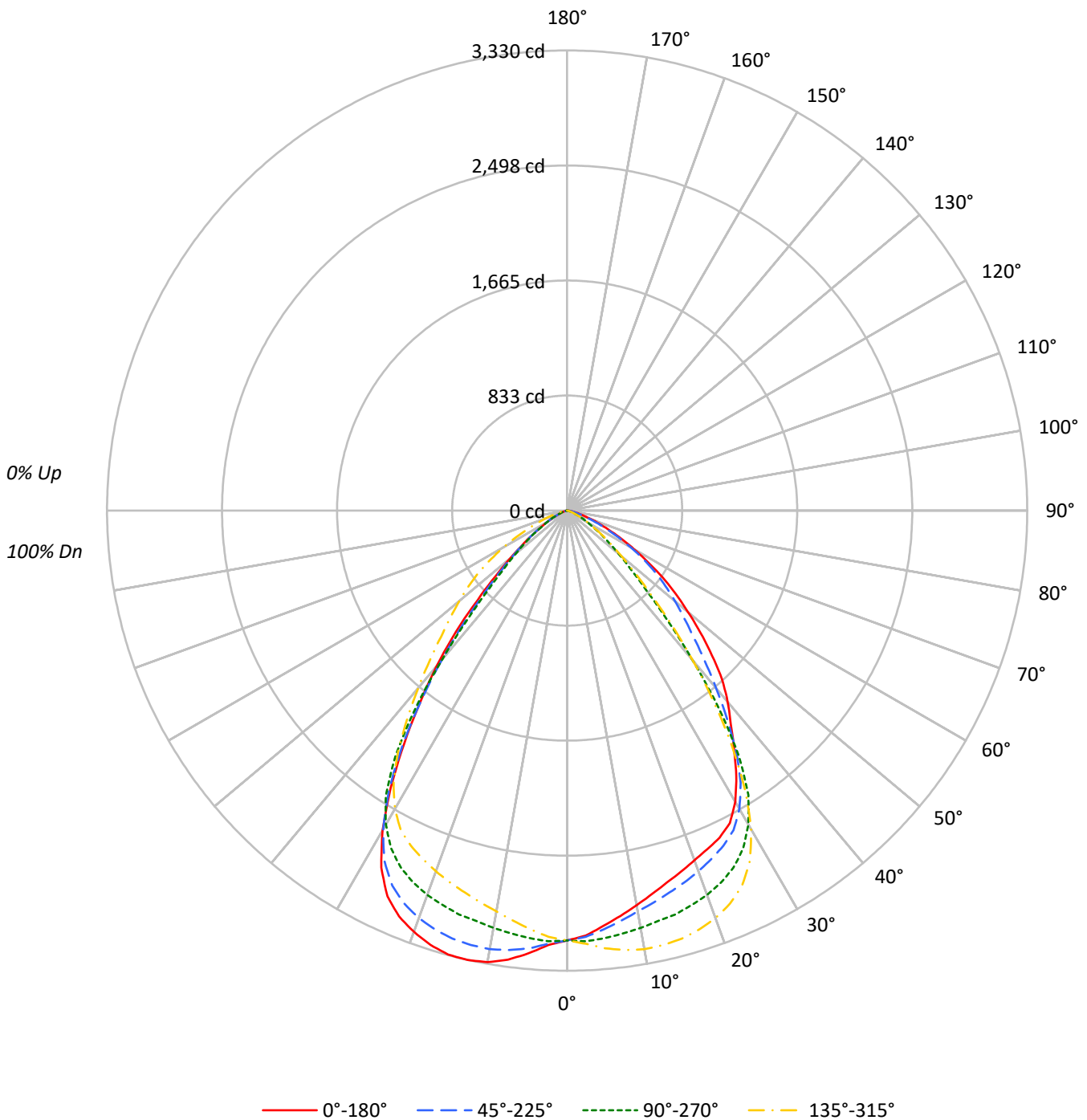
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245969

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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°	95907	95907	95907	95907
5°	93361	96134	99567	96134
10°	90777	96009	103903	96009
15°	88963	96577	106176	96577
20°	88359	97130	106450	97130
25°	88823	96935	104736	96935
30°	86628	93386	95063	93386
35°	79237	81466	77295	81466
40°	72747	56670	59177	56670
45°	64637	34569	40003	34569
50°	54713	23094	25646	23094
55°	45316	15757	16655	15757
60°	34561	10491	10583	10491
65°	24487	6538	5983	6538
70°	17662	4382	3976	4382
75°	11211	2180	1811	2180
80°	7831	1616	1350	1616
85°	7005	0	531	0



TEST NUMBER: P245969

CATALOG NUMBER: LSR8B50D010 EC8B50830 8LBSW0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.0	5.7
10°-20°	857.3	16.4
20°-30°	1298.1	24.8
30°-40°	1301.0	24.8
40°-50°	817.0	15.6
50°-60°	435.4	8.3
60°-70°	179.0	3.4
70°-80°	47.3	0.9
80°-90°	8.0	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°	2451.4	46.8
0°-40°	3752.4	71.6
0°-60°	5004.7	95.5
0°-90°	5239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5239.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3110	3110	3110	3110	3110	
5°	3016	3106	3217	3106	3016	284
15°	2787	3025	3326	3025	2787	788
25°	2611	2849	3078	2849	2611	1197
35°	2105	2164	2053	2164	2105	1319
45°	1482	793	917	793	1482	1140
55°	843	293	310	293	843	751
65°	336	90	82	90	336	348
75°	94	18	15	18	94	107
85°	20	0	2	0	20	22
90°	0	0	0	0	0	



TEST NUMBER: P245969

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2
2.5°	3078.3	3075.3	3073.8	3076.8	3078.3	3084.4	3082.9	3085.9	3085.9	3087.5	3090.5
5°	3016.1	3014.5	3016.1	3016.1	3022.2	3028.2	3026.7	3031.3	3034.3	3041.9	3044.9
7.5°	2958.4	2958.4	2956.8	2962.9	2966.0	2975.1	2973.5	2981.1	2985.7	2993.3	3003.9
10°	2899.1	2899.1	2900.6	2905.2	2906.8	2920.4	2920.4	2931.0	2937.1	2944.7	2958.4
12.5°	2841.4	2841.4	2850.6	2847.5	2853.6	2864.2	2868.8	2879.4	2888.5	2903.7	2917.4
15°	2786.7	2786.7	2789.8	2797.4	2801.9	2815.6	2823.2	2835.4	2846.0	2861.2	2880.9
17.5°	2739.7	2738.2	2739.7	2748.8	2757.9	2770.1	2776.1	2791.3	2801.9	2821.7	2839.9
20°	2692.6	2695.7	2695.7	2703.2	2709.3	2724.5	2730.5	2747.3	2759.4	2777.6	2798.9
22.5°	2651.6	2650.1	2650.1	2660.7	2665.3	2678.9	2685.0	2700.2	2713.9	2729.0	2748.8
25°	2610.6	2607.5	2613.7	2615.2	2618.2	2633.3	2637.9	2648.5	2662.2	2675.9	2695.7
27.5°	2549.8	2546.8	2548.3	2554.4	2559.0	2571.1	2574.1	2584.8	2595.4	2607.5	2624.3
30°	2432.9	2429.9	2428.4	2439.0	2443.6	2452.6	2457.2	2475.4	2478.4	2492.1	2504.3
32.5°	2278.0	2276.5	2279.5	2288.6	2293.2	2305.4	2311.4	2322.0	2329.6	2337.2	2349.4
35°	2104.9	2101.8	2104.9	2114.0	2114.0	2124.6	2129.2	2133.7	2132.2	2133.7	2130.7
37.5°	1943.9	1942.4	1943.9	1948.4	1943.9	1948.4	1943.9	1934.8	1918.1	1899.9	1881.6
40°	1807.2	1808.7	1799.7	1805.7	1789.0	1786.0	1769.3	1746.5	1713.1	1676.6	1625.0
42.5°	1661.4	1656.9	1650.8	1653.8	1640.2	1629.5	1602.2	1573.4	1530.8	1470.1	1407.8
45°	1482.2	1480.7	1477.7	1476.2	1467.0	1456.4	1433.6	1400.2	1353.1	1290.9	1216.4
47.5°	1307.6	1303.0	1303.0	1304.5	1293.9	1292.4	1274.1	1245.3	1204.3	1143.6	1066.1
50°	1140.5	1139.0	1142.1	1148.1	1140.5	1137.5	1125.4	1105.6	1069.2	1017.5	944.6
52.5°	990.2	988.7	991.7	999.3	996.2	999.3	987.2	972.0	947.6	897.5	833.8
55°	842.9	842.9	842.9	851.9	851.9	851.9	845.9	836.8	814.0	777.6	718.4
57.5°	689.5	691.0	700.1	701.6	700.1	703.2	701.6	692.5	677.4	651.5	606.0
60°	560.4	560.4	565.0	569.5	568.0	569.5	569.5	565.0	549.8	528.5	492.1
62.5°	443.4	448.0	444.9	448.0	454.1	448.0	444.9	441.9	431.3	417.6	387.2
65°	335.6	338.7	338.7	340.2	337.1	338.7	332.6	328.1	322.0	306.8	287.0
67.5°	255.2	255.2	255.2	255.2	253.6	252.1	250.6	246.0	235.4	229.3	208.0
70°	195.9	186.8	186.8	186.8	186.8	188.3	183.8	177.7	174.7	164.0	148.8
72.5°	130.6	133.6	130.6	130.6	127.6	129.1	123.0	120.0	117.0	110.9	101.8
75°	94.1	86.6	89.6	91.1	86.6	89.6	83.5	77.4	77.4	72.9	68.3
77.5°	60.8	59.3	60.8	62.3	60.8	59.3	56.2	53.1	53.1	51.6	47.1
80°	44.1	42.5	42.5	42.5	41.0	42.5	39.5	39.5	36.4	34.9	31.9
82.5°	28.9	28.9	27.3	28.9	27.3	28.9	24.3	24.3	24.3	22.8	19.8
85°	19.8	16.7	16.7	18.3	15.2	18.3	16.7	15.2	13.7	13.7	12.1
87.5°	9.1	10.6	9.1	10.6	9.1	9.1	10.6	9.1	9.1	6.1	6.1
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: P245969

CATALOG NUMBER: LSR8B50D010 EC8B50830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2
2.5°	3095.0	3096.5	3096.5	3102.7	3105.7	3107.2	3107.2	3119.4	3114.8	3117.9	3120.9
5°	3051.0	3060.1	3063.2	3063.2	3079.8	3085.9	3092.0	3105.7	3107.2	3116.3	3126.9
7.5°	3008.5	3019.1	3025.2	3038.8	3049.5	3060.1	3078.3	3087.5	3096.5	3108.7	3122.4
10°	2967.5	2979.6	2991.8	3002.4	3019.1	3032.8	3044.9	3066.2	3076.8	3093.5	3111.7
12.5°	2928.0	2944.7	2955.3	2973.5	2991.8	3003.9	3022.2	3041.9	3058.6	3075.3	3096.5
15°	2893.1	2912.8	2924.9	2944.7	2964.5	2981.1	3000.9	3025.2	3037.3	3057.1	3076.8
17.5°	2855.1	2876.4	2891.6	2909.8	2934.1	2952.3	2969.0	2993.3	3008.5	3029.7	3052.5
20°	2815.6	2836.9	2855.1	2873.3	2897.6	2915.8	2935.6	2959.9	2976.6	2997.8	3016.1
22.5°	2768.6	2788.3	2808.0	2829.2	2853.6	2868.8	2891.6	2912.8	2931.0	2950.8	2969.0
25°	2707.8	2732.1	2747.3	2767.0	2786.7	2803.4	2827.7	2849.0	2864.2	2882.4	2899.1
27.5°	2636.4	2654.7	2666.8	2683.5	2703.2	2718.4	2736.6	2757.9	2773.1	2789.8	2801.9
30°	2514.9	2531.6	2542.3	2554.4	2574.1	2587.8	2603.0	2622.7	2633.3	2645.5	2656.2
32.5°	2355.4	2369.1	2375.2	2384.3	2398.0	2411.6	2423.8	2440.5	2445.1	2452.6	2452.6
35°	2124.6	2127.6	2126.1	2129.2	2135.3	2142.8	2153.5	2164.1	2170.1	2170.1	2165.6
37.5°	1854.3	1836.1	1816.3	1801.2	1796.6	1793.5	1799.7	1804.2	1810.3	1813.3	1805.7
40°	1573.4	1532.4	1488.3	1448.8	1421.5	1409.3	1404.8	1407.8	1407.8	1418.4	1418.4
42.5°	1331.9	1268.1	1202.8	1143.6	1104.0	1073.7	1060.0	1060.0	1061.5	1069.2	1073.7
45°	1131.4	1050.9	975.0	909.7	855.0	815.5	797.3	792.7	791.2	794.2	804.9
47.5°	978.0	894.5	815.5	735.1	677.4	637.8	621.2	615.0	609.0	615.0	616.6
50°	858.1	771.5	688.0	607.5	546.7	511.8	490.5	481.4	479.9	479.9	482.9
52.5°	748.7	668.2	584.7	502.7	438.9	405.5	385.7	381.2	375.1	381.2	381.2
55°	645.4	565.0	482.9	405.5	352.3	317.4	299.2	293.1	290.0	294.6	294.6
57.5°	533.1	464.7	388.8	318.9	265.8	241.5	227.8	220.2	218.7	221.7	218.7
60°	437.4	379.7	314.4	250.6	209.6	183.8	173.2	170.1	167.0	170.1	170.1
62.5°	346.2	297.7	244.5	195.9	161.0	142.8	130.6	130.6	129.1	129.1	130.6
65°	256.7	218.7	180.7	139.7	112.4	98.7	89.6	89.6	88.1	89.6	88.1
67.5°	186.8	161.0	130.6	101.8	80.5	72.9	66.8	62.3	65.3	62.3	60.8
70°	136.7	115.4	94.1	77.4	62.3	54.7	50.1	48.6	45.6	45.6	45.6
72.5°	91.1	77.4	63.8	50.1	41.0	33.4	31.9	28.9	25.8	27.3	30.4
75°	60.8	51.6	45.6	36.4	27.3	27.3	18.3	18.3	15.2	18.3	13.7
77.5°	42.5	34.9	27.3	22.8	18.3	16.7	12.1	12.1	10.6	10.6	10.6
80°	30.4	25.8	19.8	16.7	12.1	12.1	10.6	9.1	7.6	7.6	9.1
82.5°	18.3	13.7	13.7	12.1	7.6	6.1	4.6	6.1	3.1	3.1	3.1
85°	10.6	9.1	7.6	4.6	3.1	3.1	1.5	0.0	1.5	1.5	0.0
87.5°	6.1	3.1	3.1	1.5	0.0	1.5	1.5	0.0	0.0	0.0	3.1
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: P245969

CATALOG NUMBER: LSR8B50D010 EC8B50830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2
2.5°	3128.5	3126.9	3130.0	3130.0	3139.1	3137.5	3142.1	3142.1	3139.1	3140.6	3146.7
5°	3139.1	3143.7	3152.7	3160.4	3174.0	3180.1	3187.7	3195.3	3196.8	3201.4	3205.9
7.5°	3139.1	3154.3	3164.9	3178.6	3196.8	3207.4	3224.1	3237.8	3243.9	3251.4	3260.6
10°	3133.0	3148.2	3167.9	3183.1	3205.9	3222.6	3239.3	3260.6	3269.7	3281.8	3294.0
12.5°	3120.9	3137.5	3158.8	3178.6	3204.4	3219.6	3240.8	3260.6	3274.3	3290.9	3304.6
15°	3102.7	3122.4	3142.1	3161.9	3189.2	3207.4	3227.2	3249.9	3263.6	3281.8	3294.0
17.5°	3073.8	3095.0	3113.3	3131.5	3157.3	3178.6	3196.8	3218.1	3231.7	3246.9	3263.6
20°	3038.8	3058.6	3078.3	3093.5	3119.4	3137.5	3157.3	3177.1	3187.7	3190.7	3216.6
22.5°	2994.8	3008.5	3023.7	3048.0	3063.2	3079.8	3098.1	3116.3	3126.9	3143.7	3152.7
25°	2921.9	2935.6	2952.3	2962.9	2981.1	2994.8	3013.0	3032.8	3038.8	3051.0	3060.1
27.5°	2820.2	2827.7	2835.4	2844.4	2855.1	2862.7	2873.3	2882.4	2888.5	2894.6	2900.6
30°	2659.2	2659.2	2659.2	2653.1	2657.7	2662.2	2663.7	2662.2	2662.2	2660.7	2660.7
32.5°	2446.6	2434.4	2420.7	2408.6	2404.1	2398.0	2394.9	2390.4	2382.8	2378.2	2379.7
35°	2159.5	2132.2	2115.5	2100.3	2088.2	2079.1	2074.5	2069.9	2068.4	2062.4	2056.3
37.5°	1801.2	1781.4	1769.3	1760.1	1749.5	1740.4	1741.9	1743.5	1748.0	1745.0	1746.5
40°	1421.5	1416.9	1421.5	1410.8	1407.8	1410.8	1418.4	1429.1	1435.2	1441.2	1451.8
42.5°	1081.3	1088.9	1099.5	1099.5	1104.0	1110.2	1119.2	1136.0	1145.1	1155.7	1167.9
45°	814.0	823.1	836.8	841.3	844.4	851.9	862.6	876.3	882.3	891.4	902.1
47.5°	627.2	633.3	640.8	648.5	656.0	659.1	669.7	669.7	677.4	683.4	686.4
50°	489.0	495.1	501.1	505.7	508.8	513.3	516.3	520.9	522.4	525.5	527.0
52.5°	382.7	390.3	390.3	393.3	397.9	402.4	400.9	402.4	403.9	403.9	408.5
55°	299.2	299.2	303.7	303.7	306.8	305.2	306.8	306.8	306.8	306.8	308.3
57.5°	223.2	224.8	229.3	226.3	224.8	227.8	224.8	227.8	226.3	229.3	224.8
60°	171.6	171.6	173.2	173.2	174.7	174.7	174.7	173.2	173.2	171.6	171.6
62.5°	129.1	130.6	132.1	130.6	130.6	130.6	129.1	129.1	127.6	126.0	126.0
65°	86.6	85.1	88.1	85.1	86.6	86.6	85.1	86.6	82.0	83.5	82.0
67.5°	62.3	60.8	59.3	60.8	59.3	57.7	57.7	59.3	60.8	56.2	56.2
70°	41.0	42.5	41.0	42.5	44.1	44.1	42.5	41.0	42.5	39.5	41.0
72.5°	25.8	25.8	25.8	25.8	25.8	27.3	27.3	27.3	24.3	24.3	22.8
75°	12.1	16.7	13.7	12.1	16.7	16.7	15.2	15.2	13.7	13.7	13.7
77.5°	12.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	7.6	9.1	7.6
80°	6.1	6.1	6.1	4.6	6.1	6.1	7.6	6.1	6.1	4.6	7.6
82.5°	3.1	3.1	3.1	0.0	1.5	3.1	3.1	1.5	3.1	3.1	1.5
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: P245969

CATALOG NUMBER: LSR8B50D010 EC8B50830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2
2.5°	3145.2	3143.7	3145.2	3146.7	3145.2	3143.7	3145.2	3146.7	3140.6	3139.1	3142.1
5°	3212.0	3212.0	3215.0	3216.6	3215.0	3212.0	3212.0	3205.9	3201.4	3196.8	3195.3
7.5°	3269.7	3272.8	3275.8	3277.3	3275.8	3272.8	3269.7	3260.6	3251.4	3243.9	3237.8
10°	3304.6	3309.2	3315.3	3318.3	3315.3	3309.2	3304.6	3294.0	3281.8	3269.7	3260.6
12.5°	3319.8	3324.4	3331.9	3330.4	3331.9	3324.4	3319.8	3304.6	3290.9	3274.3	3260.6
15°	3309.2	3315.3	3322.8	3325.9	3322.8	3315.3	3309.2	3294.0	3281.8	3263.6	3249.9
17.5°	3275.8	3284.9	3289.4	3294.0	3289.4	3284.9	3275.8	3263.6	3246.9	3231.7	3218.1
20°	3230.2	3236.3	3242.4	3243.9	3242.4	3236.3	3230.2	3216.6	3190.7	3187.7	3177.1
22.5°	3164.9	3169.5	3183.1	3178.6	3183.1	3169.5	3164.9	3152.7	3143.7	3126.9	3116.3
25°	3070.7	3075.3	3076.8	3078.3	3076.8	3075.3	3070.7	3060.1	3051.0	3038.8	3032.8
27.5°	2908.3	2908.3	2911.3	2912.8	2911.3	2908.3	2908.3	2900.6	2894.6	2888.5	2882.4
30°	2662.2	2662.2	2662.2	2669.8	2662.2	2662.2	2662.2	2660.7	2660.7	2662.2	2662.2
32.5°	2378.2	2375.2	2372.2	2375.2	2372.2	2375.2	2378.2	2379.7	2378.2	2382.8	2390.4
35°	2056.3	2054.8	2059.3	2053.3	2059.3	2054.8	2056.3	2056.3	2062.4	2068.4	2069.9
37.5°	1748.0	1745.0	1751.0	1745.0	1751.0	1745.0	1748.0	1746.5	1745.0	1748.0	1743.5
40°	1454.9	1457.9	1457.9	1470.1	1457.9	1457.9	1454.9	1451.8	1441.2	1435.2	1429.1
42.5°	1173.9	1183.1	1180.0	1189.1	1180.0	1183.1	1173.9	1167.9	1155.7	1145.1	1136.0
45°	908.1	914.3	914.3	917.3	914.3	914.3	908.1	902.1	891.4	882.3	876.3
47.5°	697.0	697.0	697.0	698.6	697.0	697.0	697.0	686.4	683.4	677.4	669.7
50°	530.0	531.5	533.1	534.6	533.1	531.5	530.0	527.0	525.5	522.4	520.9
52.5°	407.0	408.5	405.5	408.5	405.5	408.5	407.0	408.5	403.9	403.9	402.4
55°	308.3	306.8	308.3	309.8	308.3	306.8	308.3	308.3	306.8	306.8	306.8
57.5°	226.3	223.2	223.2	223.2	223.2	223.2	226.3	224.8	229.3	226.3	227.8
60°	168.6	170.1	170.1	171.6	170.1	170.1	168.6	171.6	171.6	173.2	173.2
62.5°	124.5	129.1	126.0	129.1	126.0	129.1	124.5	126.0	126.0	127.6	129.1
65°	80.5	80.5	80.5	82.0	80.5	80.5	80.5	82.0	83.5	82.0	86.6
67.5°	54.7	56.2	59.3	57.7	59.3	56.2	54.7	56.2	56.2	60.8	59.3
70°	44.1	39.5	39.5	44.1	39.5	39.5	44.1	41.0	39.5	42.5	41.0
72.5°	25.8	22.8	25.8	25.8	25.8	22.8	25.8	22.8	24.3	24.3	27.3
75°	13.7	12.1	10.6	15.2	10.6	12.1	13.7	13.7	13.7	13.7	15.2
77.5°	9.1	7.6	10.6	10.6	10.6	7.6	9.1	7.6	9.1	7.6	9.1
80°	4.6	6.1	4.6	7.6	4.6	6.1	4.6	7.6	4.6	6.1	6.1
82.5°	1.5	3.1	3.1	3.1	3.1	3.1	1.5	1.5	3.1	3.1	1.5
85°	0.0	3.1	1.5	1.5	1.5	3.1	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.0	0.0	1.5	0.0	0.0	1.5	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: P245969

CATALOG NUMBER: LSR8B50D010 EC8B50830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2
2.5°	3142.1	3137.5	3139.1	3130.0	3130.0	3126.9	3128.5	3120.9	3117.9	3114.8	3119.4
5°	3187.7	3180.1	3174.0	3160.4	3152.7	3143.7	3139.1	3126.9	3116.3	3107.2	3105.7
7.5°	3224.1	3207.4	3196.8	3178.6	3164.9	3154.3	3139.1	3122.4	3108.7	3096.5	3087.5
10°	3239.3	3222.6	3205.9	3183.1	3167.9	3148.2	3133.0	3111.7	3093.5	3076.8	3066.2
12.5°	3240.8	3219.6	3204.4	3178.6	3158.8	3137.5	3120.9	3096.5	3075.3	3058.6	3041.9
15°	3227.2	3207.4	3189.2	3161.9	3142.1	3122.4	3102.7	3076.8	3057.1	3037.3	3025.2
17.5°	3196.8	3178.6	3157.3	3131.5	3113.3	3095.0	3073.8	3052.5	3029.7	3008.5	2993.3
20°	3157.3	3137.5	3119.4	3093.5	3078.3	3058.6	3038.8	3016.1	2997.8	2976.6	2959.9
22.5°	3098.1	3079.8	3063.2	3048.0	3023.7	3008.5	2994.8	2969.0	2950.8	2931.0	2912.8
25°	3013.0	2994.8	2981.1	2962.9	2952.3	2935.6	2921.9	2899.1	2882.4	2864.2	2849.0
27.5°	2873.3	2862.7	2855.1	2844.4	2835.4	2827.7	2820.2	2801.9	2789.8	2773.1	2757.9
30°	2663.7	2662.2	2657.7	2653.1	2659.2	2659.2	2659.2	2656.2	2645.5	2633.3	2622.7
32.5°	2394.9	2398.0	2404.1	2408.6	2420.7	2434.4	2446.6	2452.6	2452.6	2445.1	2440.5
35°	2074.5	2079.1	2088.2	2100.3	2115.5	2132.2	2159.5	2165.6	2170.1	2170.1	2164.1
37.5°	1741.9	1740.4	1749.5	1760.1	1769.3	1781.4	1801.2	1805.7	1813.3	1810.3	1804.2
40°	1418.4	1410.8	1407.8	1410.8	1421.5	1416.9	1421.5	1418.4	1418.4	1407.8	1407.8
42.5°	1119.2	1110.2	1104.0	1099.5	1099.5	1088.9	1081.3	1073.7	1069.2	1061.5	1060.0
45°	862.6	851.9	844.4	841.3	836.8	823.1	814.0	804.9	794.2	791.2	792.7
47.5°	669.7	659.1	656.0	648.5	640.8	633.3	627.2	616.6	615.0	609.0	615.0
50°	516.3	513.3	508.8	505.7	501.1	495.1	489.0	482.9	479.9	479.9	481.4
52.5°	400.9	402.4	397.9	393.3	390.3	390.3	382.7	381.2	381.2	375.1	381.2
55°	306.8	305.2	306.8	303.7	303.7	299.2	299.2	294.6	294.6	290.0	293.1
57.5°	224.8	227.8	224.8	226.3	229.3	224.8	223.2	218.7	221.7	218.7	220.2
60°	174.7	174.7	174.7	173.2	173.2	171.6	171.6	170.1	170.1	167.0	170.1
62.5°	129.1	130.6	130.6	130.6	132.1	130.6	129.1	130.6	129.1	129.1	130.6
65°	85.1	86.6	86.6	85.1	88.1	85.1	86.6	88.1	89.6	88.1	89.6
67.5°	57.7	57.7	59.3	60.8	59.3	60.8	62.3	60.8	62.3	65.3	62.3
70°	42.5	44.1	44.1	42.5	41.0	42.5	41.0	45.6	45.6	45.6	48.6
72.5°	27.3	27.3	25.8	25.8	25.8	25.8	25.8	30.4	27.3	25.8	28.9
75°	15.2	16.7	16.7	12.1	13.7	16.7	12.1	13.7	18.3	15.2	18.3
77.5°	9.1	9.1	9.1	9.1	9.1	9.1	12.1	10.6	10.6	10.6	12.1
80°	7.6	6.1	6.1	4.6	6.1	6.1	6.1	9.1	7.6	7.6	9.1
82.5°	3.1	3.1	1.5	0.0	3.1	3.1	3.1	3.1	3.1	3.1	6.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	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: P245969

CATALOG NUMBER: LSR8B50D010 EC8B50830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2
2.5°	3107.2	3107.2	3105.7	3102.7	3096.5	3096.5	3095.0	3090.5	3087.5	3085.9	3085.9
5°	3092.0	3085.9	3079.8	3063.2	3063.2	3060.1	3051.0	3044.9	3041.9	3034.3	3031.3
7.5°	3078.3	3060.1	3049.5	3038.8	3025.2	3019.1	3008.5	3003.9	2993.3	2985.7	2981.1
10°	3044.9	3032.8	3019.1	3002.4	2991.8	2979.6	2967.5	2958.4	2944.7	2937.1	2931.0
12.5°	3022.2	3003.9	2991.8	2973.5	2955.3	2944.7	2928.0	2917.4	2903.7	2888.5	2879.4
15°	3000.9	2981.1	2964.5	2944.7	2924.9	2912.8	2893.1	2880.9	2861.2	2846.0	2835.4
17.5°	2969.0	2952.3	2934.1	2909.8	2891.6	2876.4	2855.1	2839.9	2821.7	2801.9	2791.3
20°	2935.6	2915.8	2897.6	2873.3	2855.1	2836.9	2815.6	2798.9	2777.6	2759.4	2747.3
22.5°	2891.6	2868.8	2853.6	2829.2	2808.0	2788.3	2768.6	2748.8	2729.0	2713.9	2700.2
25°	2827.7	2803.4	2786.7	2767.0	2747.3	2732.1	2707.8	2695.7	2675.9	2662.2	2648.5
27.5°	2736.6	2718.4	2703.2	2683.5	2666.8	2654.7	2636.4	2624.3	2607.5	2595.4	2584.8
30°	2603.0	2587.8	2574.1	2554.4	2542.3	2531.6	2514.9	2504.3	2492.1	2478.4	2475.4
32.5°	2423.8	2411.6	2398.0	2384.3	2375.2	2369.1	2355.4	2349.4	2337.2	2329.6	2322.0
35°	2153.5	2142.8	2135.3	2129.2	2126.1	2127.6	2124.6	2130.7	2133.7	2132.2	2133.7
37.5°	1799.7	1793.5	1796.6	1801.2	1816.3	1836.1	1854.3	1881.6	1899.9	1918.1	1934.8
40°	1404.8	1409.3	1421.5	1448.8	1488.3	1532.4	1573.4	1625.0	1676.6	1713.1	1746.5
42.5°	1060.0	1073.7	1104.0	1143.6	1202.8	1268.1	1331.9	1407.8	1470.1	1530.8	1573.4
45°	797.3	815.5	855.0	909.7	975.0	1050.9	1131.4	1216.4	1290.9	1353.1	1400.2
47.5°	621.2	637.8	677.4	735.1	815.5	894.5	978.0	1066.1	1143.6	1204.3	1245.3
50°	490.5	511.8	546.7	607.5	688.0	771.5	858.1	944.6	1017.5	1069.2	1105.6
52.5°	385.7	405.5	438.9	502.7	584.7	668.2	748.7	833.8	897.5	947.6	972.0
55°	299.2	317.4	352.3	405.5	482.9	565.0	645.4	718.4	777.6	814.0	836.8
57.5°	227.8	241.5	265.8	318.9	388.8	464.7	533.1	606.0	651.5	677.4	692.5
60°	173.2	183.8	209.6	250.6	314.4	379.7	437.4	492.1	528.5	549.8	565.0
62.5°	130.6	142.8	161.0	195.9	244.5	297.7	346.2	387.2	417.6	431.3	441.9
65°	89.6	98.7	112.4	139.7	180.7	218.7	256.7	287.0	306.8	322.0	328.1
67.5°	66.8	72.9	80.5	101.8	130.6	161.0	186.8	208.0	229.3	235.4	246.0
70°	50.1	54.7	62.3	77.4	94.1	115.4	136.7	148.8	164.0	174.7	177.7
72.5°	31.9	33.4	41.0	50.1	63.8	77.4	91.1	101.8	110.9	117.0	120.0
75°	18.3	27.3	27.3	36.4	45.6	51.6	60.8	68.3	72.9	77.4	77.4
77.5°	12.1	16.7	18.3	22.8	27.3	34.9	42.5	47.1	51.6	53.1	53.1
80°	10.6	12.1	12.1	16.7	19.8	25.8	30.4	31.9	34.9	36.4	39.5
82.5°	4.6	6.1	7.6	12.1	13.7	13.7	18.3	19.8	22.8	24.3	24.3
85°	1.5	3.1	3.1	4.6	7.6	9.1	10.6	12.1	13.7	13.7	15.2
87.5°	1.5	1.5	0.0	1.5	3.1	3.1	6.1	6.1	6.1	9.1	9.1
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: P245969

CATALOG NUMBER: LSR8B50D010 EC8B50830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2	3110.2
2.5°	3082.9	3084.4	3078.3	3076.8	3073.8	3075.3	3078.3
5°	3026.7	3028.2	3022.2	3016.1	3016.1	3014.5	3016.1
7.5°	2973.5	2975.1	2966.0	2962.9	2956.8	2958.4	2958.4
10°	2920.4	2920.4	2906.8	2905.2	2900.6	2899.1	2899.1
12.5°	2868.8	2864.2	2853.6	2847.5	2850.6	2841.4	2841.4
15°	2823.2	2815.6	2801.9	2797.4	2789.8	2786.7	2786.7
17.5°	2776.1	2770.1	2757.9	2748.8	2739.7	2738.2	2739.7
20°	2730.5	2724.5	2709.3	2703.2	2695.7	2695.7	2692.6
22.5°	2685.0	2678.9	2665.3	2660.7	2650.1	2650.1	2651.6
25°	2637.9	2633.3	2618.2	2615.2	2613.7	2607.5	2610.6
27.5°	2574.1	2571.1	2559.0	2554.4	2548.3	2546.8	2549.8
30°	2457.2	2452.6	2443.6	2439.0	2428.4	2429.9	2432.9
32.5°	2311.4	2305.4	2293.2	2288.6	2279.5	2276.5	2278.0
35°	2129.2	2124.6	2114.0	2114.0	2104.9	2101.8	2104.9
37.5°	1943.9	1948.4	1943.9	1948.4	1943.9	1942.4	1943.9
40°	1769.3	1786.0	1789.0	1805.7	1799.7	1808.7	1807.2
42.5°	1602.2	1629.5	1640.2	1653.8	1650.8	1656.9	1661.4
45°	1433.6	1456.4	1467.0	1476.2	1477.7	1480.7	1482.2
47.5°	1274.1	1292.4	1293.9	1304.5	1303.0	1303.0	1307.6
50°	1125.4	1137.5	1140.5	1148.1	1142.1	1139.0	1140.5
52.5°	987.2	999.3	996.2	999.3	991.7	988.7	990.2
55°	845.9	851.9	851.9	851.9	842.9	842.9	842.9
57.5°	701.6	703.2	700.1	701.6	700.1	691.0	689.5
60°	569.5	569.5	568.0	569.5	565.0	560.4	560.4
62.5°	444.9	448.0	454.1	448.0	444.9	448.0	443.4
65°	332.6	338.7	337.1	340.2	338.7	338.7	335.6
67.5°	250.6	252.1	253.6	255.2	255.2	255.2	255.2
70°	183.8	188.3	186.8	186.8	186.8	186.8	195.9
72.5°	123.0	129.1	127.6	130.6	130.6	133.6	130.6
75°	83.5	89.6	86.6	91.1	89.6	86.6	94.1
77.5°	56.2	59.3	60.8	62.3	60.8	59.3	60.8
80°	39.5	42.5	41.0	42.5	42.5	42.5	44.1
82.5°	24.3	28.9	27.3	28.9	27.3	28.9	28.9
85°	16.7	18.3	15.2	18.3	16.7	16.7	19.8
87.5°	10.6	9.1	9.1	10.6	9.1	10.6	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)