

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: P244565

Luminaire Tested: **LSR8B50D010 EC8B50935 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244565
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 EC8B50935 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4695.0 lumens
Efficiency: N/A
Efficacy: 88.6 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

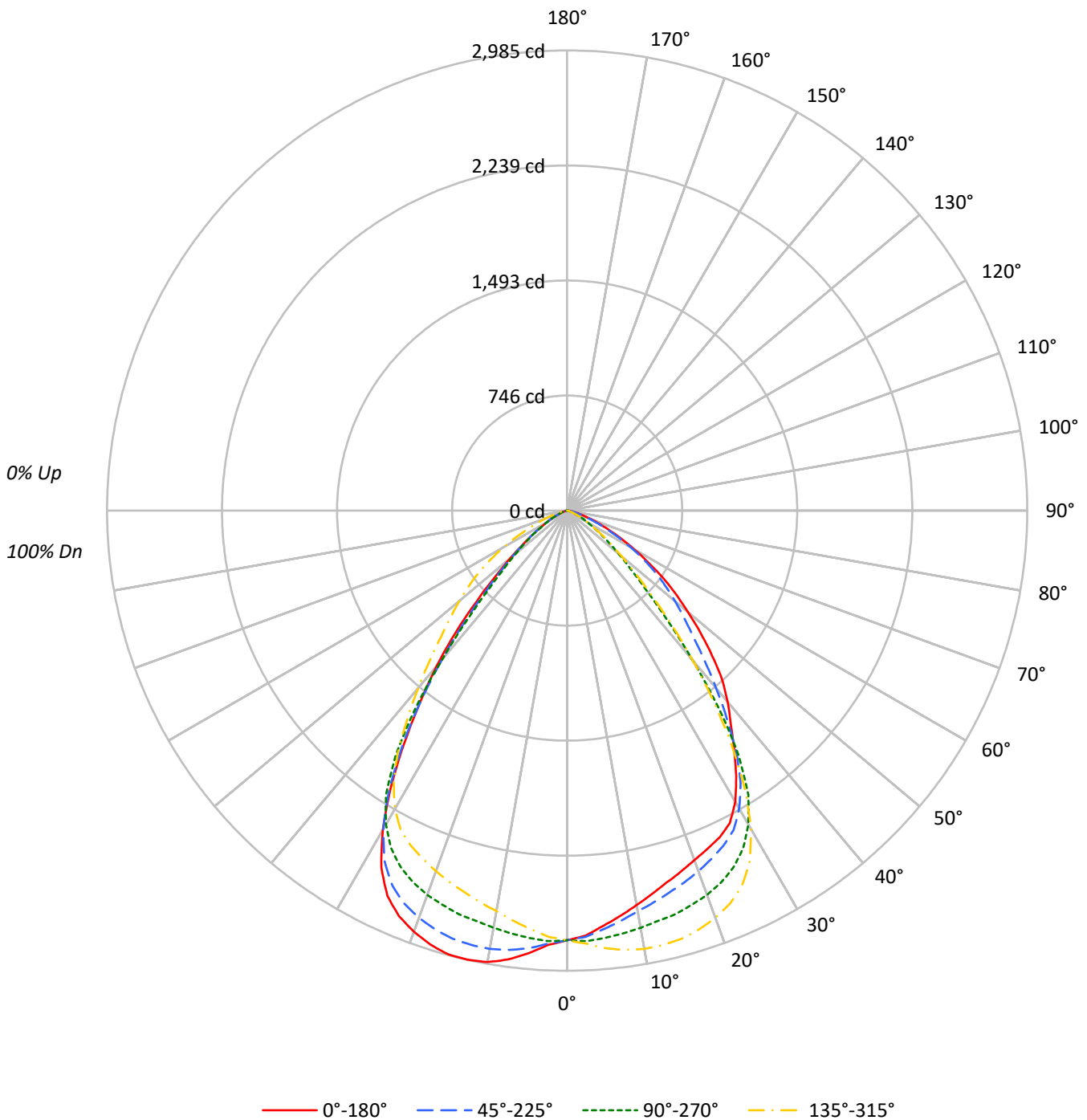
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244565

CATALOG NUMBER: LSR8B50D010 EC8B50935 8LBSW0H

Luminous Intensity Polar Plot





TEST NUMBER: P244565

CATALOG NUMBER: LSR8B50D010 EC8B50935 8LBSW0H

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	85950	85950	85950	85950
5°	83666	86151	89228	86151
10°	81352	86039	93113	86039
15°	79727	86549	95150	86549
20°	79183	87043	95394	87043
25°	79599	86870	93862	86870
30°	77633	83690	85193	83690
35°	71008	73007	69269	73007
40°	65195	50784	53035	50784
45°	57926	30980	35847	30980
50°	49033	20695	22984	20695
55°	40611	14123	14924	14123
60°	30972	9399	9485	9399
65°	21948	5859	5363	5859
70°	15832	3922	3561	3922
75°	10056	1954	1620	1954
80°	7014	1456	1208	1456
85°	6262	0	460	0



TEST NUMBER: P244565

CATALOG NUMBER: LSR8B50D010 EC8B50935 8LBSW0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.3	5.7
10°-20°	768.2	16.4
20°-30°	1163.3	24.8
30°-40°	1165.9	24.8
40°-50°	732.1	15.6
50°-60°	390.1	8.3
60°-70°	160.4	3.4
70°-80°	42.4	0.9
80°-90°	7.2	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°	2196.8	46.8
0°-40°	3362.7	71.6
0°-60°	4485.0	95.5
0°-90°	4695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4695.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2787	2787	2787	2787	2787	
5°	2703	2783	2883	2783	2703	255
15°	2497	2711	2980	2711	2497	706
25°	2340	2553	2759	2553	2340	1073
35°	1886	1939	1840	1939	1886	1182
45°	1328	710	822	710	1328	1022
55°	755	263	278	263	755	673
65°	301	80	74	80	301	312
75°	84	16	14	16	84	96
85°	18	0	1	0	18	19
90°	0	0	0	0	0	



TEST NUMBER: P244565

CATALOG NUMBER: LSR8B50D010 EC8B50935 8LBSW0H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3
2.5°	2758.7	2756.0	2754.6	2757.4	2758.7	2764.1	2762.8	2765.5	2765.5	2766.9	2769.6
5°	2702.9	2701.5	2702.9	2702.9	2708.3	2713.8	2712.4	2716.5	2719.2	2726.0	2728.7
7.5°	2651.2	2651.2	2649.8	2655.2	2658.0	2666.2	2664.8	2671.6	2675.7	2682.5	2692.0
10°	2598.1	2598.1	2599.4	2603.5	2604.9	2617.1	2617.1	2626.7	2632.1	2638.9	2651.2
12.5°	2546.4	2546.4	2554.6	2551.8	2557.3	2566.8	2570.9	2580.4	2588.6	2602.2	2614.5
15°	2497.4	2497.4	2500.1	2506.9	2511.0	2523.3	2530.0	2541.0	2550.5	2564.1	2581.8
17.5°	2455.2	2453.8	2455.2	2463.4	2471.6	2482.4	2487.9	2501.5	2511.0	2528.7	2545.0
20°	2413.0	2415.8	2415.8	2422.5	2428.0	2441.6	2447.0	2462.0	2472.9	2489.2	2508.3
22.5°	2376.3	2374.9	2374.9	2384.4	2388.5	2400.7	2406.2	2419.8	2432.1	2445.7	2463.4
25°	2339.5	2336.8	2342.3	2343.6	2346.3	2359.9	2364.0	2373.5	2385.8	2398.1	2415.8
27.5°	2285.1	2282.4	2283.7	2289.2	2293.2	2304.1	2306.9	2316.4	2325.9	2336.8	2351.8
30°	2180.3	2177.6	2176.2	2185.7	2189.8	2198.0	2202.0	2218.4	2221.1	2233.4	2244.2
32.5°	2041.4	2040.1	2042.8	2051.0	2055.1	2066.0	2071.4	2080.9	2087.7	2094.5	2105.4
35°	1886.3	1883.6	1886.3	1894.5	1894.5	1904.0	1908.1	1912.1	1910.8	1912.1	1909.5
37.5°	1742.1	1740.7	1742.1	1746.1	1742.1	1746.1	1742.1	1733.9	1718.9	1702.6	1686.2
40°	1619.6	1620.9	1612.8	1618.2	1603.2	1600.5	1585.6	1565.1	1535.2	1502.5	1456.3
42.5°	1488.9	1484.8	1479.4	1482.1	1469.9	1460.3	1435.8	1410.0	1371.8	1317.5	1261.6
45°	1328.3	1327.0	1324.2	1322.9	1314.7	1305.2	1284.7	1254.8	1212.6	1156.8	1090.1
47.5°	1171.8	1167.7	1167.7	1169.1	1159.5	1158.2	1141.8	1116.0	1079.3	1024.8	955.4
50°	1022.1	1020.7	1023.5	1028.9	1022.1	1019.4	1008.5	990.8	958.1	911.9	846.5
52.5°	887.3	886.0	888.7	895.5	892.8	895.5	884.6	871.0	849.2	804.3	747.2
55°	755.4	755.4	755.4	763.5	763.5	763.5	758.0	749.9	729.5	696.8	643.8
57.5°	617.9	619.2	627.4	628.8	627.4	630.2	628.8	620.6	607.0	583.9	543.0
60°	502.2	502.2	506.3	510.4	509.0	510.4	510.4	506.3	492.7	473.6	441.0
62.5°	397.4	401.5	398.7	401.5	406.9	401.5	398.7	396.1	386.5	374.3	347.0
65°	300.8	303.5	303.5	304.9	302.1	303.5	298.1	294.0	288.6	274.9	257.2
67.5°	228.7	228.7	228.7	228.7	227.3	225.9	224.6	220.5	211.0	205.5	186.4
70°	175.6	167.4	167.4	167.4	167.4	168.8	164.7	159.3	156.5	147.0	133.4
72.5°	117.0	119.8	117.0	117.0	114.3	115.7	110.2	107.5	104.8	99.4	91.2
75°	84.4	77.6	80.3	81.7	77.6	80.3	74.8	69.4	69.4	65.3	61.2
77.5°	54.5	53.1	54.5	55.8	54.5	53.1	50.4	47.6	47.6	46.3	42.2
80°	39.5	38.1	38.1	38.1	36.7	38.1	35.4	35.4	32.7	31.3	28.6
82.5°	25.9	25.9	24.5	25.9	24.5	25.9	21.8	21.8	21.8	20.4	17.7
85°	17.7	15.0	15.0	16.4	13.6	16.4	15.0	13.6	12.3	12.3	10.9
87.5°	8.2	9.5	8.2	9.5	8.2	8.2	9.5	8.2	8.2	5.4	5.4
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: P244565

CATALOG NUMBER: LSR8B50D010 EC8B50935 8LBSW0H

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3
2.5°	2773.7	2775.0	2775.0	2780.5	2783.2	2784.5	2784.5	2795.5	2791.4	2794.1	2796.8
5°	2734.2	2742.3	2745.1	2745.1	2760.0	2765.5	2770.9	2783.2	2784.5	2792.7	2802.2
7.5°	2696.1	2705.6	2711.1	2723.3	2732.8	2742.3	2758.7	2766.9	2775.0	2785.9	2798.1
10°	2659.3	2670.2	2681.1	2690.6	2705.6	2717.9	2728.7	2747.8	2757.4	2772.3	2788.6
12.5°	2624.0	2638.9	2648.5	2664.8	2681.1	2692.0	2708.3	2726.0	2741.0	2756.0	2775.0
15°	2592.7	2610.4	2621.2	2638.9	2656.6	2671.6	2689.3	2711.1	2722.0	2739.7	2757.4
17.5°	2558.6	2577.7	2591.3	2607.6	2629.4	2645.7	2660.7	2682.5	2696.1	2715.1	2735.6
20°	2523.3	2542.3	2558.6	2575.0	2596.8	2613.1	2630.8	2652.5	2667.5	2686.6	2702.9
22.5°	2481.1	2498.8	2516.4	2535.5	2557.3	2570.9	2591.3	2610.4	2626.7	2644.4	2660.7
25°	2426.6	2448.4	2462.0	2479.7	2497.4	2512.3	2534.1	2553.2	2566.8	2583.1	2598.1
27.5°	2362.7	2379.0	2389.9	2404.8	2422.5	2436.1	2452.4	2471.6	2485.2	2500.1	2511.0
30°	2253.7	2268.8	2278.3	2289.2	2306.9	2319.1	2332.7	2350.4	2359.9	2370.8	2380.4
32.5°	2110.8	2123.1	2128.5	2136.7	2149.0	2161.2	2172.1	2187.1	2191.2	2198.0	2198.0
35°	1904.0	1906.7	1905.4	1908.1	1913.5	1920.3	1929.8	1939.4	1944.8	1944.8	1940.8
37.5°	1661.7	1645.4	1627.7	1614.1	1610.0	1607.3	1612.8	1616.8	1622.3	1625.0	1618.2
40°	1410.0	1373.2	1333.8	1298.3	1273.9	1263.0	1258.9	1261.6	1261.6	1271.1	1271.1
42.5°	1193.6	1136.4	1077.9	1024.8	989.4	962.2	950.0	950.0	951.3	958.1	962.2
45°	1013.9	941.8	873.7	815.2	766.2	730.8	714.5	710.4	709.1	711.8	721.3
47.5°	876.5	801.6	730.8	658.7	607.0	571.6	556.7	551.2	545.7	551.2	552.6
50°	769.0	691.4	616.5	544.4	489.9	458.6	439.6	431.4	430.1	430.1	432.8
52.5°	670.9	598.8	524.0	450.5	393.3	363.4	345.7	341.6	336.2	341.6	341.6
55°	578.4	506.3	432.8	363.4	315.7	284.5	268.1	262.7	259.9	264.0	264.0
57.5°	477.7	416.4	348.4	285.8	238.2	216.4	204.1	197.4	196.0	198.7	196.0
60°	392.0	340.3	281.7	224.6	187.8	164.7	155.2	152.4	149.7	152.4	152.4
62.5°	310.3	266.8	219.1	175.6	144.2	127.9	117.0	117.0	115.7	115.7	117.0
65°	230.0	196.0	162.0	125.2	100.7	88.5	80.3	80.3	78.9	80.3	78.9
67.5°	167.4	144.2	117.0	91.2	72.2	65.3	59.9	55.8	58.5	55.8	54.5
70°	122.5	103.4	84.4	69.4	55.8	49.0	44.9	43.5	40.8	40.8	40.8
72.5°	81.7	69.4	57.1	44.9	36.7	29.9	28.6	25.9	23.1	24.5	27.2
75°	54.5	46.3	40.8	32.7	24.5	24.5	16.4	16.4	13.6	16.4	12.3
77.5°	38.1	31.3	24.5	20.4	16.4	15.0	10.9	10.9	9.5	9.5	9.5
80°	27.2	23.1	17.7	15.0	10.9	10.9	9.5	8.2	6.8	6.8	8.2
82.5°	16.4	12.3	12.3	10.9	6.8	5.4	4.1	5.4	2.7	2.7	2.7
85°	9.5	8.2	6.8	4.1	2.7	2.7	1.3	0.0	1.3	1.3	0.0
87.5°	5.4	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



TEST NUMBER: P244565

CATALOG NUMBER: LSR8B50D010 EC8B50935 8LBSW0H

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3
2.5°	2803.6	2802.2	2805.0	2805.0	2813.2	2811.8	2815.8	2815.8	2813.2	2814.5	2819.9
5°	2813.2	2817.2	2825.4	2832.2	2844.4	2849.9	2856.7	2863.5	2864.9	2868.9	2873.0
7.5°	2813.2	2826.8	2836.3	2848.5	2864.9	2874.4	2889.3	2901.6	2907.0	2913.8	2922.0
10°	2807.7	2821.3	2839.0	2852.6	2873.0	2888.0	2903.0	2922.0	2930.2	2941.0	2952.0
12.5°	2796.8	2811.8	2830.8	2848.5	2871.6	2885.2	2904.3	2922.0	2934.3	2949.2	2961.5
15°	2780.5	2798.1	2815.8	2833.5	2858.0	2874.4	2892.1	2912.5	2924.7	2941.0	2952.0
17.5°	2754.6	2773.7	2790.0	2806.3	2829.5	2848.5	2864.9	2883.9	2896.2	2909.8	2924.7
20°	2723.3	2741.0	2758.7	2772.3	2795.5	2811.8	2829.5	2847.2	2856.7	2859.4	2882.6
22.5°	2683.9	2696.1	2709.7	2731.5	2745.1	2760.0	2776.4	2792.7	2802.2	2817.2	2825.4
25°	2618.5	2630.8	2645.7	2655.2	2671.6	2683.9	2700.2	2717.9	2723.3	2734.2	2742.3
27.5°	2527.3	2534.1	2541.0	2549.1	2558.6	2565.4	2575.0	2583.1	2588.6	2594.0	2599.4
30°	2383.0	2383.0	2383.0	2377.6	2381.7	2385.8	2387.1	2385.8	2385.8	2384.4	2384.4
32.5°	2192.5	2181.7	2169.4	2158.5	2154.4	2149.0	2146.2	2142.2	2135.4	2131.3	2132.6
35°	1935.3	1910.8	1895.8	1882.2	1871.4	1863.2	1859.1	1855.0	1853.7	1848.2	1842.7
37.5°	1614.1	1596.4	1585.6	1577.4	1567.9	1559.7	1561.0	1562.4	1566.5	1563.8	1565.1
40°	1273.9	1269.8	1273.9	1264.3	1261.6	1264.3	1271.1	1280.7	1286.1	1291.6	1301.1
42.5°	969.0	975.8	985.4	985.4	989.4	994.9	1003.0	1018.0	1026.2	1035.7	1046.6
45°	729.5	737.7	749.9	754.0	756.7	763.5	773.1	785.3	790.7	798.9	808.4
47.5°	562.1	567.5	574.3	581.1	587.9	590.7	600.2	600.2	607.0	612.5	615.1
50°	438.2	443.7	449.1	453.2	455.9	460.0	462.7	466.8	468.1	470.9	472.2
52.5°	342.9	349.8	349.8	352.5	356.6	360.6	359.3	360.6	362.0	362.0	366.1
55°	268.1	268.1	272.2	272.2	274.9	273.5	274.9	274.9	274.9	274.9	276.3
57.5°	200.0	201.4	205.5	202.8	201.4	204.1	201.4	204.1	202.8	205.5	201.4
60°	153.8	153.8	155.2	155.2	156.5	156.5	156.5	155.2	155.2	153.8	153.8
62.5°	115.7	117.0	118.4	117.0	117.0	117.0	115.7	115.7	114.3	112.9	112.9
65°	77.6	76.2	78.9	76.2	77.6	77.6	76.2	77.6	73.5	74.8	73.5
67.5°	55.8	54.5	53.1	54.5	53.1	51.7	51.7	53.1	54.5	50.4	50.4
70°	36.7	38.1	36.7	38.1	39.5	39.5	38.1	36.7	38.1	35.4	36.7
72.5°	23.1	23.1	23.1	23.1	23.1	24.5	24.5	24.5	21.8	21.8	20.4
75°	10.9	15.0	12.3	10.9	15.0	15.0	13.6	13.6	12.3	12.3	12.3
77.5°	10.9	8.2	8.2	8.2	8.2	8.2	8.2	8.2	6.8	8.2	6.8
80°	5.4	5.4	5.4	4.1	5.4	5.4	6.8	5.4	5.4	4.1	6.8
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: P244565

CATALOG NUMBER: LSR8B50D010 EC8B50935 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3
2.5°	2818.6	2817.2	2818.6	2819.9	2818.6	2817.2	2818.6	2819.9	2814.5	2813.2	2815.8
5°	2878.5	2878.5	2881.2	2882.6	2881.2	2878.5	2878.5	2873.0	2868.9	2864.9	2863.5
7.5°	2930.2	2932.9	2935.6	2937.0	2935.6	2932.9	2930.2	2922.0	2913.8	2907.0	2901.6
10°	2961.5	2965.6	2971.0	2973.7	2971.0	2965.6	2961.5	2952.0	2941.0	2930.2	2922.0
12.5°	2975.1	2979.2	2986.0	2984.6	2986.0	2979.2	2975.1	2961.5	2949.2	2934.3	2922.0
15°	2965.6	2971.0	2977.8	2980.5	2977.8	2971.0	2965.6	2952.0	2941.0	2924.7	2912.5
17.5°	2935.6	2943.8	2947.9	2952.0	2947.9	2943.8	2935.6	2924.7	2909.8	2896.2	2883.9
20°	2894.8	2900.3	2905.7	2907.0	2905.7	2900.3	2894.8	2882.6	2859.4	2856.7	2847.2
22.5°	2836.3	2840.4	2852.6	2848.5	2852.6	2840.4	2836.3	2825.4	2817.2	2802.2	2792.7
25°	2751.9	2756.0	2757.4	2758.7	2757.4	2756.0	2751.9	2742.3	2734.2	2723.3	2717.9
27.5°	2606.3	2606.3	2609.0	2610.4	2609.0	2606.3	2606.3	2599.4	2594.0	2588.6	2583.1
30°	2385.8	2385.8	2385.8	2392.6	2385.8	2385.8	2385.8	2384.4	2384.4	2385.8	2385.8
32.5°	2131.3	2128.5	2125.9	2128.5	2125.9	2128.5	2131.3	2132.6	2131.3	2135.4	2142.2
35°	1842.7	1841.4	1845.5	1840.1	1845.5	1841.4	1842.7	1842.7	1848.2	1853.7	1855.0
37.5°	1566.5	1563.8	1569.2	1563.8	1569.2	1563.8	1566.5	1565.1	1563.8	1566.5	1562.4
40°	1303.8	1306.5	1306.5	1317.5	1306.5	1306.5	1303.8	1301.1	1291.6	1286.1	1280.7
42.5°	1052.0	1060.2	1057.5	1065.6	1057.5	1060.2	1052.0	1046.6	1035.7	1026.2	1018.0
45°	813.8	819.3	819.3	822.0	819.3	819.3	813.8	808.4	798.9	790.7	785.3
47.5°	624.7	624.7	624.7	626.1	624.7	624.7	624.7	615.1	612.5	607.0	600.2
50°	475.0	476.3	477.7	479.1	477.7	476.3	475.0	472.2	470.9	468.1	466.8
52.5°	364.7	366.1	363.4	366.1	363.4	366.1	364.7	366.1	362.0	362.0	360.6
55°	276.3	274.9	276.3	277.6	276.3	274.9	276.3	276.3	274.9	274.9	274.9
57.5°	202.8	200.0	200.0	200.0	200.0	200.0	202.8	201.4	205.5	202.8	204.1
60°	151.1	152.4	152.4	153.8	152.4	152.4	151.1	153.8	153.8	155.2	155.2
62.5°	111.6	115.7	112.9	115.7	112.9	115.7	111.6	112.9	112.9	114.3	115.7
65°	72.2	72.2	72.2	73.5	72.2	72.2	72.2	73.5	74.8	73.5	77.6
67.5°	49.0	50.4	53.1	51.7	53.1	50.4	49.0	50.4	50.4	54.5	53.1
70°	39.5	35.4	35.4	39.5	35.4	35.4	39.5	36.7	35.4	38.1	36.7
72.5°	23.1	20.4	23.1	23.1	23.1	20.4	23.1	20.4	21.8	21.8	24.5
75°	12.3	10.9	9.5	13.6	9.5	10.9	12.3	12.3	12.3	12.3	13.6
77.5°	8.2	6.8	9.5	9.5	9.5	6.8	8.2	6.8	8.2	6.8	8.2
80°	4.1	5.4	4.1	6.8	4.1	5.4	4.1	6.8	4.1	5.4	5.4
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: P244565

CATALOG NUMBER: LSR8B50D010 EC8B50935 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3
2.5°	2815.8	2811.8	2813.2	2805.0	2805.0	2802.2	2803.6	2796.8	2794.1	2791.4	2795.5
5°	2856.7	2849.9	2844.4	2832.2	2825.4	2817.2	2813.2	2802.2	2792.7	2784.5	2783.2
7.5°	2889.3	2874.4	2864.9	2848.5	2836.3	2826.8	2813.2	2798.1	2785.9	2775.0	2766.9
10°	2903.0	2888.0	2873.0	2852.6	2839.0	2821.3	2807.7	2788.6	2772.3	2757.4	2747.8
12.5°	2904.3	2885.2	2871.6	2848.5	2830.8	2811.8	2796.8	2775.0	2756.0	2741.0	2726.0
15°	2892.1	2874.4	2858.0	2833.5	2815.8	2798.1	2780.5	2757.4	2739.7	2722.0	2711.1
17.5°	2864.9	2848.5	2829.5	2806.3	2790.0	2773.7	2754.6	2735.6	2715.1	2696.1	2682.5
20°	2829.5	2811.8	2795.5	2772.3	2758.7	2741.0	2723.3	2702.9	2686.6	2667.5	2652.5
22.5°	2776.4	2760.0	2745.1	2731.5	2709.7	2696.1	2683.9	2660.7	2644.4	2626.7	2610.4
25°	2700.2	2683.9	2671.6	2655.2	2645.7	2630.8	2618.5	2598.1	2583.1	2566.8	2553.2
27.5°	2575.0	2565.4	2558.6	2549.1	2541.0	2534.1	2527.3	2511.0	2500.1	2485.2	2471.6
30°	2387.1	2385.8	2381.7	2377.6	2383.0	2383.0	2383.0	2380.4	2370.8	2359.9	2350.4
32.5°	2146.2	2149.0	2154.4	2158.5	2169.4	2181.7	2192.5	2198.0	2198.0	2191.2	2187.1
35°	1859.1	1863.2	1871.4	1882.2	1895.8	1910.8	1935.3	1940.8	1944.8	1944.8	1939.4
37.5°	1561.0	1559.7	1567.9	1577.4	1585.6	1596.4	1614.1	1618.2	1625.0	1622.3	1616.8
40°	1271.1	1264.3	1261.6	1264.3	1273.9	1269.8	1273.9	1271.1	1271.1	1261.6	1261.6
42.5°	1003.0	994.9	989.4	985.4	985.4	975.8	969.0	962.2	958.1	951.3	950.0
45°	773.1	763.5	756.7	754.0	749.9	737.7	729.5	721.3	711.8	709.1	710.4
47.5°	600.2	590.7	587.9	581.1	574.3	567.5	562.1	552.6	551.2	545.7	551.2
50°	462.7	460.0	455.9	453.2	449.1	443.7	438.2	432.8	430.1	430.1	431.4
52.5°	359.3	360.6	356.6	352.5	349.8	349.8	342.9	341.6	341.6	336.2	341.6
55°	274.9	273.5	274.9	272.2	272.2	268.1	268.1	264.0	264.0	259.9	262.7
57.5°	201.4	204.1	201.4	202.8	205.5	201.4	200.0	196.0	198.7	196.0	197.4
60°	156.5	156.5	156.5	155.2	155.2	153.8	153.8	152.4	152.4	149.7	152.4
62.5°	115.7	117.0	117.0	117.0	118.4	117.0	115.7	117.0	115.7	115.7	117.0
65°	76.2	77.6	77.6	76.2	78.9	76.2	77.6	78.9	80.3	78.9	80.3
67.5°	51.7	51.7	53.1	54.5	53.1	54.5	55.8	54.5	55.8	58.5	55.8
70°	38.1	39.5	39.5	38.1	36.7	38.1	36.7	40.8	40.8	40.8	43.5
72.5°	24.5	24.5	23.1	23.1	23.1	23.1	23.1	27.2	24.5	23.1	25.9
75°	13.6	15.0	15.0	10.9	12.3	15.0	10.9	12.3	16.4	13.6	16.4
77.5°	8.2	8.2	8.2	8.2	8.2	8.2	10.9	9.5	9.5	9.5	10.9
80°	6.8	5.4	5.4	4.1	5.4	5.4	5.4	8.2	6.8	6.8	8.2
82.5°	2.7	2.7	1.3	0.0	2.7	2.7	2.7	2.7	2.7	2.7	5.4
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: P244565

CATALOG NUMBER: LSR8B50D010 EC8B50935 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3
2.5°	2784.5	2784.5	2783.2	2780.5	2775.0	2775.0	2773.7	2769.6	2766.9	2765.5	2765.5
5°	2770.9	2765.5	2760.0	2745.1	2745.1	2742.3	2734.2	2728.7	2726.0	2719.2	2716.5
7.5°	2758.7	2742.3	2732.8	2723.3	2711.1	2705.6	2696.1	2692.0	2682.5	2675.7	2671.6
10°	2728.7	2717.9	2705.6	2690.6	2681.1	2670.2	2659.3	2651.2	2638.9	2632.1	2626.7
12.5°	2708.3	2692.0	2681.1	2664.8	2648.5	2638.9	2624.0	2614.5	2602.2	2588.6	2580.4
15°	2689.3	2671.6	2656.6	2638.9	2621.2	2610.4	2592.7	2581.8	2564.1	2550.5	2541.0
17.5°	2660.7	2645.7	2629.4	2607.6	2591.3	2577.7	2558.6	2545.0	2528.7	2511.0	2501.5
20°	2630.8	2613.1	2596.8	2575.0	2558.6	2542.3	2523.3	2508.3	2489.2	2472.9	2462.0
22.5°	2591.3	2570.9	2557.3	2535.5	2516.4	2498.8	2481.1	2463.4	2445.7	2432.1	2419.8
25°	2534.1	2512.3	2497.4	2479.7	2462.0	2448.4	2426.6	2415.8	2398.1	2385.8	2373.5
27.5°	2452.4	2436.1	2422.5	2404.8	2389.9	2379.0	2362.7	2351.8	2336.8	2325.9	2316.4
30°	2332.7	2319.1	2306.9	2289.2	2278.3	2268.8	2253.7	2244.2	2233.4	2221.1	2218.4
32.5°	2172.1	2161.2	2149.0	2136.7	2128.5	2123.1	2110.8	2105.4	2094.5	2087.7	2080.9
35°	1929.8	1920.3	1913.5	1908.1	1905.4	1906.7	1904.0	1909.5	1912.1	1910.8	1912.1
37.5°	1612.8	1607.3	1610.0	1614.1	1627.7	1645.4	1661.7	1686.2	1702.6	1718.9	1733.9
40°	1258.9	1263.0	1273.9	1298.3	1333.8	1373.2	1410.0	1456.3	1502.5	1535.2	1565.1
42.5°	950.0	962.2	989.4	1024.8	1077.9	1136.4	1193.6	1261.6	1317.5	1371.8	1410.0
45°	714.5	730.8	766.2	815.2	873.7	941.8	1013.9	1090.1	1156.8	1212.6	1254.8
47.5°	556.7	571.6	607.0	658.7	730.8	801.6	876.5	955.4	1024.8	1079.3	1116.0
50°	439.6	458.6	489.9	544.4	616.5	691.4	769.0	846.5	911.9	958.1	990.8
52.5°	345.7	363.4	393.3	450.5	524.0	598.8	670.9	747.2	804.3	849.2	871.0
55°	268.1	284.5	315.7	363.4	432.8	506.3	578.4	643.8	696.8	729.5	749.9
57.5°	204.1	216.4	238.2	285.8	348.4	416.4	477.7	543.0	583.9	607.0	620.6
60°	155.2	164.7	187.8	224.6	281.7	340.3	392.0	441.0	473.6	492.7	506.3
62.5°	117.0	127.9	144.2	175.6	219.1	266.8	310.3	347.0	374.3	386.5	396.1
65°	80.3	88.5	100.7	125.2	162.0	196.0	230.0	257.2	274.9	288.6	294.0
67.5°	59.9	65.3	72.2	91.2	117.0	144.2	167.4	186.4	205.5	211.0	220.5
70°	44.9	49.0	55.8	69.4	84.4	103.4	122.5	133.4	147.0	156.5	159.3
72.5°	28.6	29.9	36.7	44.9	57.1	69.4	81.7	91.2	99.4	104.8	107.5
75°	16.4	24.5	24.5	32.7	40.8	46.3	54.5	61.2	65.3	69.4	69.4
77.5°	10.9	15.0	16.4	20.4	24.5	31.3	38.1	42.2	46.3	47.6	47.6
80°	9.5	10.9	10.9	15.0	17.7	23.1	27.2	28.6	31.3	32.7	35.4
82.5°	4.1	5.4	6.8	10.9	12.3	12.3	16.4	17.7	20.4	21.8	21.8
85°	1.3	2.7	2.7	4.1	6.8	8.2	9.5	10.9	12.3	12.3	13.6
87.5°	1.3	1.3	0.0	1.3	2.7	2.7	5.4	5.4	5.4	8.2	8.2
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: P244565

CATALOG NUMBER: LSR8B50D010 EC8B50935 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3
2.5°	2762.8	2764.1	2758.7	2757.4	2754.6	2756.0	2758.7
5°	2712.4	2713.8	2708.3	2702.9	2702.9	2701.5	2702.9
7.5°	2664.8	2666.2	2658.0	2655.2	2649.8	2651.2	2651.2
10°	2617.1	2617.1	2604.9	2603.5	2599.4	2598.1	2598.1
12.5°	2570.9	2566.8	2557.3	2551.8	2554.6	2546.4	2546.4
15°	2530.0	2523.3	2511.0	2506.9	2500.1	2497.4	2497.4
17.5°	2487.9	2482.4	2471.6	2463.4	2455.2	2453.8	2455.2
20°	2447.0	2441.6	2428.0	2422.5	2415.8	2415.8	2413.0
22.5°	2406.2	2400.7	2388.5	2384.4	2374.9	2374.9	2376.3
25°	2364.0	2359.9	2346.3	2343.6	2342.3	2336.8	2339.5
27.5°	2306.9	2304.1	2293.2	2289.2	2283.7	2282.4	2285.1
30°	2202.0	2198.0	2189.8	2185.7	2176.2	2177.6	2180.3
32.5°	2071.4	2066.0	2055.1	2051.0	2042.8	2040.1	2041.4
35°	1908.1	1904.0	1894.5	1894.5	1886.3	1883.6	1886.3
37.5°	1742.1	1746.1	1742.1	1746.1	1742.1	1740.7	1742.1
40°	1585.6	1600.5	1603.2	1618.2	1612.8	1620.9	1619.6
42.5°	1435.8	1460.3	1469.9	1482.1	1479.4	1484.8	1488.9
45°	1284.7	1305.2	1314.7	1322.9	1324.2	1327.0	1328.3
47.5°	1141.8	1158.2	1159.5	1169.1	1167.7	1167.7	1171.8
50°	1008.5	1019.4	1022.1	1028.9	1023.5	1020.7	1022.1
52.5°	884.6	895.5	892.8	895.5	888.7	886.0	887.3
55°	758.0	763.5	763.5	763.5	755.4	755.4	755.4
57.5°	628.8	630.2	627.4	628.8	627.4	619.2	617.9
60°	510.4	510.4	509.0	510.4	506.3	502.2	502.2
62.5°	398.7	401.5	406.9	401.5	398.7	401.5	397.4
65°	298.1	303.5	302.1	304.9	303.5	303.5	300.8
67.5°	224.6	225.9	227.3	228.7	228.7	228.7	228.7
70°	164.7	168.8	167.4	167.4	167.4	167.4	175.6
72.5°	110.2	115.7	114.3	117.0	117.0	119.8	117.0
75°	74.8	80.3	77.6	81.7	80.3	77.6	84.4
77.5°	50.4	53.1	54.5	55.8	54.5	53.1	54.5
80°	35.4	38.1	36.7	38.1	38.1	38.1	39.5
82.5°	21.8	25.9	24.5	25.9	24.5	25.9	25.9
85°	15.0	16.4	13.6	16.4	15.0	15.0	17.7
87.5°	9.5	8.2	8.2	9.5	8.2	9.5	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)