

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: P245825

Luminaire Tested: **LSR8B50D010 EC8B50830 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245825
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 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4900.0 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

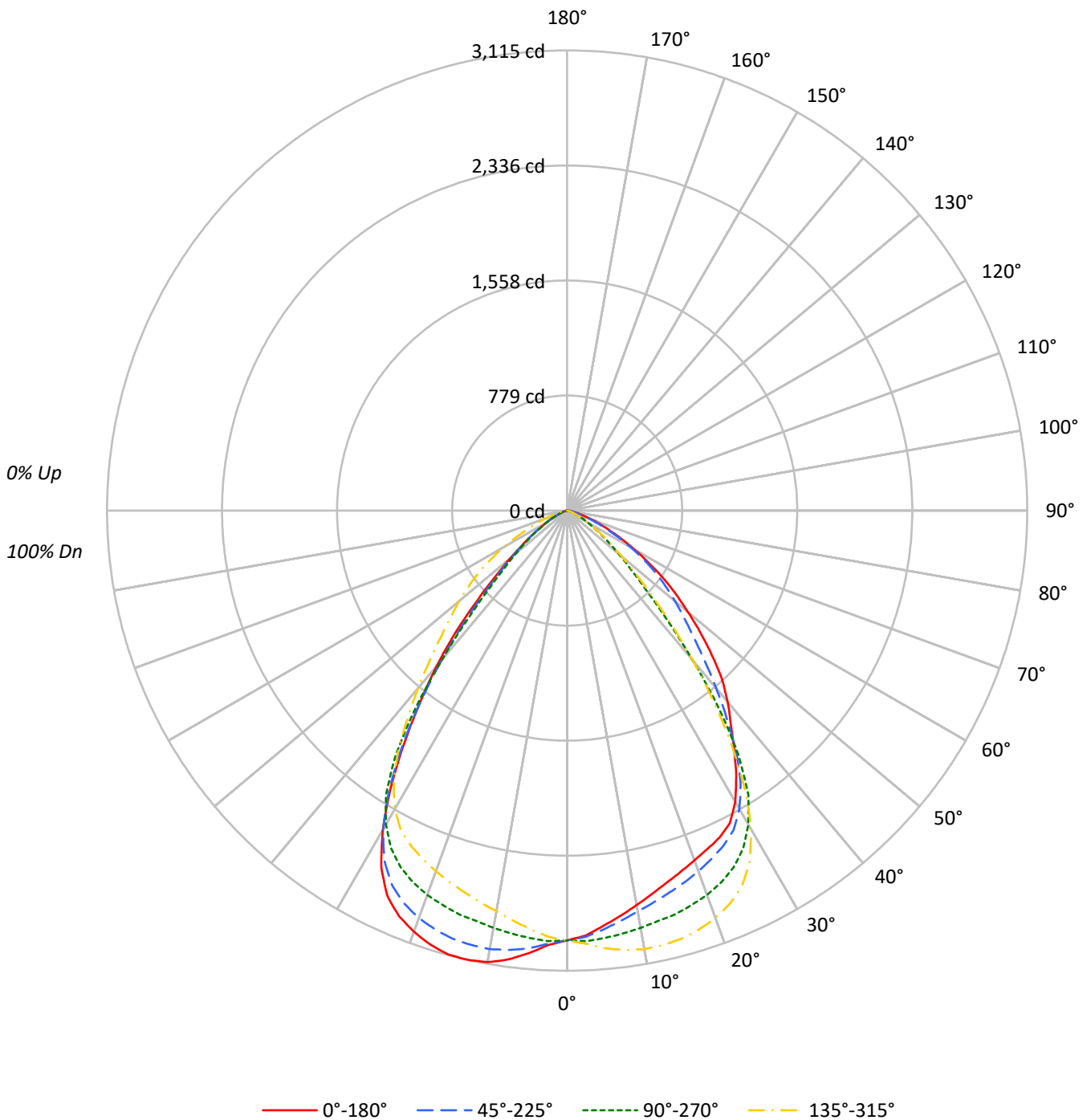
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	89703	89703	89703	89703
5°	87318	89912	93122	89912
10°	84903	89797	97177	89797
15°	83207	90329	99306	90329
20°	82642	90846	99562	90846
25°	83077	90664	97962	90664
30°	81023	87343	88914	87343
35°	74110	76196	72292	76196
40°	68041	53002	55349	53002
45°	60455	32336	37412	32336
50°	51173	21597	23986	21597
55°	42380	14736	15580	14736
60°	32323	9812	9898	9812
65°	22904	6114	5596	6114
70°	16517	4093	3715	4093
75°	10485	2037	1692	2037
80°	7316	1509	1261	1509
85°	6545	0	495	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.9	5.7
10°-20°	801.8	16.4
20°-30°	1214.1	24.8
30°-40°	1216.8	24.8
40°-50°	764.1	15.6
50°-60°	407.2	8.3
60°-70°	167.4	3.4
70°-80°	44.2	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°	2292.8	46.8
0°-40°	3509.6	71.6
0°-60°	4680.8	95.5
0°-90°	4900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4900.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2909	2909	2909	2909	2909	
5°	2821	2905	3008	2905	2821	266
15°	2606	2830	3111	2830	2606	737
25°	2442	2665	2879	2665	2442	1120
35°	1969	2024	1920	2024	1969	1233
45°	1386	742	858	742	1386	1066
55°	788	274	290	274	788	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°	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0
2.5°	2879.2	2876.3	2874.9	2877.8	2879.2	2884.8	2883.4	2886.2	2886.2	2887.7	2890.5
5°	2820.9	2819.5	2820.9	2820.9	2826.6	2832.3	2830.9	2835.1	2837.9	2845.1	2847.9
7.5°	2767.0	2767.0	2765.5	2771.2	2774.0	2782.6	2781.1	2788.2	2792.5	2799.6	2809.5
10°	2711.5	2711.5	2712.9	2717.2	2718.7	2731.4	2731.4	2741.4	2747.0	2754.2	2767.0
12.5°	2657.6	2657.6	2666.1	2663.2	2668.9	2678.9	2683.1	2693.1	2701.6	2715.8	2728.6
15°	2606.4	2606.4	2609.3	2616.4	2620.6	2633.4	2640.5	2651.9	2661.8	2676.1	2694.5
17.5°	2562.4	2561.0	2562.4	2570.9	2579.5	2590.8	2596.5	2610.7	2620.6	2639.1	2656.2
20°	2518.4	2521.2	2521.2	2528.3	2534.0	2548.2	2553.9	2569.5	2580.9	2597.9	2617.8
22.5°	2480.0	2478.6	2478.6	2488.6	2492.8	2505.6	2511.2	2525.4	2538.2	2552.5	2570.9
25°	2441.7	2438.8	2444.5	2445.9	2448.7	2462.9	2467.2	2477.2	2490.0	2502.8	2521.2
27.5°	2384.8	2382.0	2383.4	2389.1	2393.4	2404.7	2407.6	2417.5	2427.5	2438.8	2454.5
30°	2275.5	2272.6	2271.2	2281.2	2285.4	2293.9	2298.2	2315.3	2318.1	2330.9	2342.2
32.5°	2130.6	2129.2	2132.0	2140.5	2144.8	2156.2	2161.9	2171.8	2178.9	2186.0	2197.3
35°	1968.7	1965.8	1968.7	1977.2	1977.2	1987.2	1991.4	1995.6	1994.2	1995.6	1992.8
37.5°	1818.1	1816.7	1818.1	1822.3	1818.1	1822.3	1818.1	1809.6	1794.0	1776.9	1759.8
40°	1690.3	1691.7	1683.2	1688.9	1673.2	1670.4	1654.8	1633.4	1602.2	1568.1	1519.9
42.5°	1553.9	1549.7	1544.0	1546.8	1534.1	1524.1	1498.5	1471.6	1431.7	1375.0	1316.7
45°	1386.3	1384.9	1382.0	1380.6	1372.1	1362.2	1340.8	1309.6	1265.6	1207.4	1137.7
47.5°	1223.0	1218.7	1218.7	1220.1	1210.2	1208.8	1191.7	1164.7	1126.4	1069.6	997.1
50°	1066.7	1065.3	1068.2	1073.8	1066.7	1063.9	1052.5	1034.1	1000.0	951.7	883.5
52.5°	926.1	924.7	927.5	934.6	931.8	934.6	923.3	909.1	886.3	839.4	779.8
55°	788.3	788.3	788.3	796.8	796.8	796.8	791.1	782.7	761.3	727.2	671.9
57.5°	644.9	646.3	654.8	656.2	654.8	657.7	656.2	647.7	633.5	609.4	566.8
60°	524.1	524.1	528.4	532.7	531.2	532.7	532.7	528.4	514.2	494.3	460.2
62.5°	414.7	419.0	416.2	419.0	424.7	419.0	416.2	413.3	403.4	390.6	362.2
65°	313.9	316.8	316.8	318.2	315.3	316.8	311.1	306.8	301.2	286.9	268.5
67.5°	238.7	238.7	238.7	238.7	237.2	235.8	234.4	230.1	220.2	214.5	194.6
70°	183.2	174.7	174.7	174.7	174.7	176.2	171.9	166.2	163.4	153.4	139.2
72.5°	122.1	125.0	122.1	122.1	119.3	120.7	115.1	112.2	109.4	103.7	95.2
75°	88.0	81.0	83.8	85.2	81.0	83.8	78.1	72.4	72.4	68.2	63.9
77.5°	56.8	55.4	56.8	58.2	56.8	55.4	52.6	49.7	49.7	48.3	44.0
80°	41.2	39.8	39.8	39.8	38.4	39.8	36.9	36.9	34.1	32.7	29.8
82.5°	27.0	27.0	25.5	27.0	25.5	27.0	22.7	22.7	22.7	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	11.3
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°	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0
2.5°	2894.8	2896.2	2896.2	2901.9	2904.7	2906.1	2906.1	2917.5	2913.2	2916.1	2918.9
5°	2853.6	2862.1	2865.0	2865.0	2880.6	2886.2	2891.9	2904.7	2906.1	2914.6	2924.6
7.5°	2813.8	2823.7	2829.5	2842.2	2852.1	2862.1	2879.2	2887.7	2896.2	2907.6	2920.3
10°	2775.4	2786.8	2798.2	2808.1	2823.7	2836.5	2847.9	2867.8	2877.8	2893.4	2910.4
12.5°	2738.5	2754.2	2764.1	2781.1	2798.2	2809.5	2826.6	2845.1	2860.7	2876.3	2896.2
15°	2705.9	2724.3	2735.7	2754.2	2772.6	2788.2	2806.7	2829.5	2840.8	2859.3	2877.8
17.5°	2670.3	2690.3	2704.5	2721.5	2744.2	2761.2	2776.9	2799.6	2813.8	2833.7	2855.0
20°	2633.4	2653.3	2670.3	2687.4	2710.1	2727.1	2745.6	2768.4	2784.0	2803.9	2820.9
22.5°	2589.4	2607.9	2626.3	2646.2	2668.9	2683.1	2704.5	2724.3	2741.4	2759.8	2776.9
25°	2532.6	2555.3	2569.5	2587.9	2606.4	2622.0	2644.8	2664.7	2678.9	2695.9	2711.5
27.5°	2465.8	2482.9	2494.2	2509.8	2528.3	2542.5	2559.5	2579.5	2593.7	2609.3	2620.6
30°	2352.2	2367.8	2377.8	2389.1	2407.6	2420.4	2434.6	2453.0	2462.9	2474.3	2484.3
32.5°	2203.0	2215.8	2221.5	2230.0	2242.8	2255.6	2267.0	2282.6	2286.9	2293.9	2293.9
35°	1987.2	1990.0	1988.6	1991.4	1997.1	2004.2	2014.1	2024.1	2029.7	2029.7	2025.5
37.5°	1734.3	1717.3	1698.8	1684.6	1680.3	1677.5	1683.2	1687.4	1693.1	1695.9	1688.9
40°	1471.6	1433.2	1392.0	1355.0	1329.5	1318.1	1313.9	1316.7	1316.7	1326.6	1326.6
42.5°	1245.7	1186.0	1125.0	1069.6	1032.6	1004.2	991.4	991.4	992.8	1000.0	1004.2
45°	1058.2	982.9	911.9	850.8	799.7	762.7	745.7	741.5	740.0	742.9	752.8
47.5°	914.7	836.6	762.7	687.5	633.5	596.6	581.0	575.2	569.6	575.2	576.7
50°	802.5	721.6	643.5	568.2	511.3	478.7	458.8	450.2	448.8	448.8	451.7
52.5°	700.2	625.0	546.9	470.2	410.5	379.3	360.8	356.5	350.8	356.5	356.5
55°	603.6	528.4	451.7	379.3	329.5	296.9	279.8	274.1	271.3	275.5	275.5
57.5°	498.6	434.6	363.7	298.3	248.6	225.8	213.0	206.0	204.5	207.4	204.5
60°	409.1	355.1	294.0	234.4	196.0	171.9	161.9	159.1	156.2	159.1	159.1
62.5°	323.8	278.4	228.7	183.2	150.5	133.5	122.1	122.1	120.7	120.7	122.1
65°	240.1	204.5	169.0	130.7	105.1	92.3	83.8	83.8	82.4	83.8	82.4
67.5°	174.7	150.5	122.1	95.2	75.3	68.2	62.5	58.2	61.1	58.2	56.8
70°	127.9	107.9	88.0	72.4	58.2	51.2	46.9	45.4	42.6	42.6	42.6
72.5°	85.2	72.4	59.6	46.9	38.4	31.2	29.8	27.0	24.1	25.5	28.4
75°	56.8	48.3	42.6	34.1	25.5	25.5	17.1	17.1	14.2	17.1	12.8
77.5°	39.8	32.7	25.5	21.3	17.1	15.6	11.3	11.3	9.9	9.9	9.9
80°	28.4	24.1	18.5	15.6	11.3	11.3	9.9	8.5	7.1	7.1	8.5
82.5°	17.1	12.8	12.8	11.3	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°	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0
2.5°	2926.0	2924.6	2927.4	2927.4	2936.0	2934.5	2938.8	2938.8	2936.0	2937.4	2943.1
5°	2936.0	2940.3	2948.7	2955.9	2968.6	2974.3	2981.4	2988.5	2989.9	2994.2	2998.5
7.5°	2936.0	2950.2	2960.1	2972.9	2989.9	2999.9	3015.5	3028.3	3034.0	3041.0	3049.6
10°	2930.3	2944.5	2962.9	2977.1	2998.5	3014.1	3029.7	3049.6	3058.1	3069.5	3080.9
12.5°	2918.9	2934.5	2954.4	2972.9	2997.0	3011.2	3031.1	3049.6	3062.4	3078.0	3090.8
15°	2901.9	2920.3	2938.8	2957.3	2982.8	2999.9	3018.4	3039.6	3052.4	3069.5	3080.9
17.5°	2874.9	2894.8	2911.8	2928.9	2953.0	2972.9	2989.9	3009.8	3022.6	3036.8	3052.4
20°	2842.2	2860.7	2879.2	2893.4	2917.5	2934.5	2953.0	2971.5	2981.4	2984.3	3008.4
22.5°	2801.0	2813.8	2828.0	2850.7	2865.0	2880.6	2897.6	2914.6	2924.6	2940.3	2948.7
25°	2732.8	2745.6	2761.2	2771.2	2788.2	2801.0	2818.1	2836.5	2842.2	2853.6	2862.1
27.5°	2637.7	2644.8	2651.9	2660.4	2670.3	2677.5	2687.4	2695.9	2701.6	2707.3	2712.9
30°	2487.1	2487.1	2487.1	2481.4	2485.7	2490.0	2491.4	2490.0	2490.0	2488.6	2488.6
32.5°	2288.3	2276.9	2264.1	2252.8	2248.5	2242.8	2240.0	2235.7	2228.6	2224.4	2225.8
35°	2019.8	1994.2	1978.6	1964.4	1953.1	1944.5	1940.3	1936.0	1934.6	1928.9	1923.2
37.5°	1684.6	1666.1	1654.8	1646.3	1636.3	1627.8	1629.2	1630.6	1634.9	1632.0	1633.4
40°	1329.5	1325.2	1329.5	1319.6	1316.7	1319.6	1326.6	1336.6	1342.3	1348.0	1357.9
42.5°	1011.3	1018.4	1028.4	1028.4	1032.6	1038.3	1046.8	1062.5	1071.0	1080.9	1092.3
45°	761.3	769.9	782.7	786.9	789.7	796.8	806.8	819.6	825.2	833.8	843.7
47.5°	586.6	592.3	599.4	606.5	613.6	616.5	626.4	626.4	633.5	639.2	642.0
50°	457.4	463.0	468.7	473.0	475.8	480.1	482.9	487.2	488.6	491.5	492.9
52.5°	357.9	365.1	365.1	367.9	372.1	376.4	375.0	376.4	377.8	377.8	382.1
55°	279.8	279.8	284.1	284.1	286.9	285.5	286.9	286.9	286.9	286.9	288.3
57.5°	208.8	210.2	214.5	211.6	210.2	213.0	210.2	213.0	211.6	214.5	210.2
60°	160.5	160.5	161.9	161.9	163.4	163.4	163.4	161.9	161.9	160.5	160.5
62.5°	120.7	122.1	123.6	122.1	122.1	122.1	120.7	120.7	119.3	117.9	117.9
65°	81.0	79.6	82.4	79.6	81.0	81.0	79.6	81.0	76.7	78.1	76.7
67.5°	58.2	56.8	55.4	56.8	55.4	54.0	54.0	55.4	56.8	52.6	52.6
70°	38.4	39.8	38.4	39.8	41.2	41.2	39.8	38.4	39.8	36.9	38.4
72.5°	24.1	24.1	24.1	24.1	24.1	25.5	25.5	25.5	22.7	22.7	21.3
75°	11.3	15.6	12.8	11.3	15.6	15.6	14.2	14.2	12.8	12.8	12.8
77.5°	11.3	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: P245825

CATALOG NUMBER: LSR8B50D010 EC8B50830 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0
2.5°	2941.7	2940.3	2941.7	2943.1	2941.7	2940.3	2941.7	2943.1	2937.4	2936.0	2938.8
5°	3004.2	3004.2	3007.0	3008.4	3007.0	3004.2	3004.2	2998.5	2994.2	2989.9	2988.5
7.5°	3058.1	3061.0	3063.8	3065.2	3063.8	3061.0	3058.1	3049.6	3041.0	3034.0	3028.3
10°	3090.8	3095.1	3100.7	3103.5	3100.7	3095.1	3090.8	3080.9	3069.5	3058.1	3049.6
12.5°	3105.0	3109.3	3116.3	3114.9	3116.3	3109.3	3105.0	3090.8	3078.0	3062.4	3049.6
15°	3095.1	3100.7	3107.8	3110.7	3107.8	3100.7	3095.1	3080.9	3069.5	3052.4	3039.6
17.5°	3063.8	3072.3	3076.6	3080.9	3076.6	3072.3	3063.8	3052.4	3036.8	3022.6	3009.8
20°	3021.2	3026.9	3032.6	3034.0	3032.6	3026.9	3021.2	3008.4	2984.3	2981.4	2971.5
22.5°	2960.1	2964.4	2977.1	2972.9	2977.1	2964.4	2960.1	2948.7	2940.3	2924.6	2914.6
25°	2872.0	2876.3	2877.8	2879.2	2877.8	2876.3	2872.0	2862.1	2853.6	2842.2	2836.5
27.5°	2720.1	2720.1	2722.9	2724.3	2722.9	2720.1	2720.1	2712.9	2707.3	2701.6	2695.9
30°	2490.0	2490.0	2490.0	2497.1	2490.0	2490.0	2490.0	2488.6	2488.6	2490.0	2490.0
32.5°	2224.4	2221.5	2218.7	2221.5	2218.7	2221.5	2224.4	2225.8	2224.4	2228.6	2235.7
35°	1923.2	1921.8	1926.1	1920.4	1926.1	1921.8	1923.2	1923.2	1928.9	1934.6	1936.0
37.5°	1634.9	1632.0	1637.7	1632.0	1637.7	1632.0	1634.9	1633.4	1632.0	1634.9	1630.6
40°	1360.8	1363.6	1363.6	1375.0	1363.6	1363.6	1360.8	1357.9	1348.0	1342.3	1336.6
42.5°	1098.0	1106.5	1103.6	1112.2	1103.6	1106.5	1098.0	1092.3	1080.9	1071.0	1062.5
45°	849.4	855.1	855.1	857.9	855.1	855.1	849.4	843.7	833.8	825.2	819.6
47.5°	651.9	651.9	651.9	653.4	651.9	651.9	651.9	642.0	639.2	633.5	626.4
50°	495.7	497.1	498.6	500.0	498.6	497.1	495.7	492.9	491.5	488.6	487.2
52.5°	380.7	382.1	379.3	382.1	379.3	382.1	380.7	382.1	377.8	377.8	376.4
55°	288.3	286.9	288.3	289.8	288.3	286.9	288.3	288.3	286.9	286.9	286.9
57.5°	211.6	208.8	208.8	208.8	208.8	208.8	211.6	210.2	214.5	211.6	213.0
60°	157.7	159.1	159.1	160.5	159.1	159.1	157.7	160.5	160.5	161.9	161.9
62.5°	116.5	120.7	117.9	120.7	117.9	120.7	116.5	117.9	117.9	119.3	120.7
65°	75.3	75.3	75.3	76.7	75.3	75.3	75.3	76.7	78.1	76.7	81.0
67.5°	51.2	52.6	55.4	54.0	55.4	52.6	51.2	52.6	52.6	56.8	55.4
70°	41.2	36.9	36.9	41.2	36.9	36.9	41.2	38.4	36.9	39.8	38.4
72.5°	24.1	21.3	24.1	24.1	24.1	21.3	24.1	21.3	22.7	22.7	25.5
75°	12.8	11.3	9.9	14.2	9.9	11.3	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: P245825

CATALOG NUMBER: LSR8B50D010 EC8B50830 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0
2.5°	2938.8	2934.5	2936.0	2927.4	2927.4	2924.6	2926.0	2918.9	2916.1	2913.2	2917.5
5°	2981.4	2974.3	2968.6	2955.9	2948.7	2940.3	2936.0	2924.6	2914.6	2906.1	2904.7
7.5°	3015.5	2999.9	2989.9	2972.9	2960.1	2950.2	2936.0	2920.3	2907.6	2896.2	2887.7
10°	3029.7	3014.1	2998.5	2977.1	2962.9	2944.5	2930.3	2910.4	2893.4	2877.8	2867.8
12.5°	3031.1	3011.2	2997.0	2972.9	2954.4	2934.5	2918.9	2896.2	2876.3	2860.7	2845.1
15°	3018.4	2999.9	2982.8	2957.3	2938.8	2920.3	2901.9	2877.8	2859.3	2840.8	2829.5
17.5°	2989.9	2972.9	2953.0	2928.9	2911.8	2894.8	2874.9	2855.0	2833.7	2813.8	2799.6
20°	2953.0	2934.5	2917.5	2893.4	2879.2	2860.7	2842.2	2820.9	2803.9	2784.0	2768.4
22.5°	2897.6	2880.6	2865.0	2850.7	2828.0	2813.8	2801.0	2776.9	2759.8	2741.4	2724.3
25°	2818.1	2801.0	2788.2	2771.2	2761.2	2745.6	2732.8	2711.5	2695.9	2678.9	2664.7
27.5°	2687.4	2677.5	2670.3	2660.4	2651.9	2644.8	2637.7	2620.6	2609.3	2593.7	2579.5
30°	2491.4	2490.0	2485.7	2481.4	2487.1	2487.1	2487.1	2484.3	2474.3	2462.9	2453.0
32.5°	2240.0	2242.8	2248.5	2252.8	2264.1	2276.9	2288.3	2293.9	2293.9	2286.9	2282.6
35°	1940.3	1944.5	1953.1	1964.4	1978.6	1994.2	2019.8	2025.5	2029.7	2029.7	2024.1
37.5°	1629.2	1627.8	1636.3	1646.3	1654.8	1666.1	1684.6	1688.9	1695.9	1693.1	1687.4
40°	1326.6	1319.6	1316.7	1319.6	1329.5	1325.2	1329.5	1326.6	1326.6	1316.7	1316.7
42.5°	1046.8	1038.3	1032.6	1028.4	1028.4	1018.4	1011.3	1004.2	1000.0	992.8	991.4
45°	806.8	796.8	789.7	786.9	782.7	769.9	761.3	752.8	742.9	740.0	741.5
47.5°	626.4	616.5	613.6	606.5	599.4	592.3	586.6	576.7	575.2	569.6	575.2
50°	482.9	480.1	475.8	473.0	468.7	463.0	457.4	451.7	448.8	448.8	450.2
52.5°	375.0	376.4	372.1	367.9	365.1	365.1	357.9	356.5	356.5	350.8	356.5
55°	286.9	285.5	286.9	284.1	284.1	279.8	279.8	275.5	275.5	271.3	274.1
57.5°	210.2	213.0	210.2	211.6	214.5	210.2	208.8	204.5	207.4	204.5	206.0
60°	163.4	163.4	163.4	161.9	161.9	160.5	160.5	159.1	159.1	156.2	159.1
62.5°	120.7	122.1	122.1	122.1	123.6	122.1	120.7	122.1	120.7	120.7	122.1
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	55.4	56.8	55.4	56.8	58.2	56.8	58.2	61.1	58.2
70°	39.8	41.2	41.2	39.8	38.4	39.8	38.4	42.6	42.6	42.6	45.4
72.5°	25.5	25.5	24.1	24.1	24.1	24.1	24.1	28.4	25.5	24.1	27.0
75°	14.2	15.6	15.6	11.3	12.8	15.6	11.3	12.8	17.1	14.2	17.1
77.5°	8.5	8.5	8.5	8.5	8.5	8.5	11.3	9.9	9.9	9.9	11.3
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: P245825

CATALOG NUMBER: LSR8B50D010 EC8B50830 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0
2.5°	2906.1	2906.1	2904.7	2901.9	2896.2	2896.2	2894.8	2890.5	2887.7	2886.2	2886.2
5°	2891.9	2886.2	2880.6	2865.0	2865.0	2862.1	2853.6	2847.9	2845.1	2837.9	2835.1
7.5°	2879.2	2862.1	2852.1	2842.2	2829.5	2823.7	2813.8	2809.5	2799.6	2792.5	2788.2
10°	2847.9	2836.5	2823.7	2808.1	2798.2	2786.8	2775.4	2767.0	2754.2	2747.0	2741.4
12.5°	2826.6	2809.5	2798.2	2781.1	2764.1	2754.2	2738.5	2728.6	2715.8	2701.6	2693.1
15°	2806.7	2788.2	2772.6	2754.2	2735.7	2724.3	2705.9	2694.5	2676.1	2661.8	2651.9
17.5°	2776.9	2761.2	2744.2	2721.5	2704.5	2690.3	2670.3	2656.2	2639.1	2620.6	2610.7
20°	2745.6	2727.1	2710.1	2687.4	2670.3	2653.3	2633.4	2617.8	2597.9	2580.9	2569.5
22.5°	2704.5	2683.1	2668.9	2646.2	2626.3	2607.9	2589.4	2570.9	2552.5	2538.2	2525.4
25°	2644.8	2622.0	2606.4	2587.9	2569.5	2555.3	2532.6	2521.2	2502.8	2490.0	2477.2
27.5°	2559.5	2542.5	2528.3	2509.8	2494.2	2482.9	2465.8	2454.5	2438.8	2427.5	2417.5
30°	2434.6	2420.4	2407.6	2389.1	2377.8	2367.8	2352.2	2342.2	2330.9	2318.1	2315.3
32.5°	2267.0	2255.6	2242.8	2230.0	2221.5	2215.8	2203.0	2197.3	2186.0	2178.9	2171.8
35°	2014.1	2004.2	1997.1	1991.4	1988.6	1990.0	1987.2	1992.8	1995.6	1994.2	1995.6
37.5°	1683.2	1677.5	1680.3	1684.6	1698.8	1717.3	1734.3	1759.8	1776.9	1794.0	1809.6
40°	1313.9	1318.1	1329.5	1355.0	1392.0	1433.2	1471.6	1519.9	1568.1	1602.2	1633.4
42.5°	991.4	1004.2	1032.6	1069.6	1125.0	1186.0	1245.7	1316.7	1375.0	1431.7	1471.6
45°	745.7	762.7	799.7	850.8	911.9	982.9	1058.2	1137.7	1207.4	1265.6	1309.6
47.5°	581.0	596.6	633.5	687.5	762.7	836.6	914.7	997.1	1069.6	1126.4	1164.7
50°	458.8	478.7	511.3	568.2	643.5	721.6	802.5	883.5	951.7	1000.0	1034.1
52.5°	360.8	379.3	410.5	470.2	546.9	625.0	700.2	779.8	839.4	886.3	909.1
55°	279.8	296.9	329.5	379.3	451.7	528.4	603.6	671.9	727.2	761.3	782.7
57.5°	213.0	225.8	248.6	298.3	363.7	434.6	498.6	566.8	609.4	633.5	647.7
60°	161.9	171.9	196.0	234.4	294.0	355.1	409.1	460.2	494.3	514.2	528.4
62.5°	122.1	133.5	150.5	183.2	228.7	278.4	323.8	362.2	390.6	403.4	413.3
65°	83.8	92.3	105.1	130.7	169.0	204.5	240.1	268.5	286.9	301.2	306.8
67.5°	62.5	68.2	75.3	95.2	122.1	150.5	174.7	194.6	214.5	220.2	230.1
70°	46.9	51.2	58.2	72.4	88.0	107.9	127.9	139.2	153.4	163.4	166.2
72.5°	29.8	31.2	38.4	46.9	59.6	72.4	85.2	95.2	103.7	109.4	112.2
75°	17.1	25.5	25.5	34.1	42.6	48.3	56.8	63.9	68.2	72.4	72.4
77.5°	11.3	15.6	17.1	21.3	25.5	32.7	39.8	44.0	48.3	49.7	49.7
80°	9.9	11.3	11.3	15.6	18.5	24.1	28.4	29.8	32.7	34.1	36.9
82.5°	4.3	5.7	7.1	11.3	12.8	12.8	17.1	18.5	21.3	22.7	22.7
85°	1.4	2.9	2.9	4.3	7.1	8.5	9.9	11.3	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: P245825

CATALOG NUMBER: LSR8B50D010 EC8B50830 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0
2.5°	2883.4	2884.8	2879.2	2877.8	2874.9	2876.3	2879.2
5°	2830.9	2832.3	2826.6	2820.9	2820.9	2819.5	2820.9
7.5°	2781.1	2782.6	2774.0	2771.2	2765.5	2767.0	2767.0
10°	2731.4	2731.4	2718.7	2717.2	2712.9	2711.5	2711.5
12.5°	2683.1	2678.9	2668.9	2663.2	2666.1	2657.6	2657.6
15°	2640.5	2633.4	2620.6	2616.4	2609.3	2606.4	2606.4
17.5°	2596.5	2590.8	2579.5	2570.9	2562.4	2561.0	2562.4
20°	2553.9	2548.2	2534.0	2528.3	2521.2	2521.2	2518.4
22.5°	2511.2	2505.6	2492.8	2488.6	2478.6	2478.6	2480.0
25°	2467.2	2462.9	2448.7	2445.9	2444.5	2438.8	2441.7
27.5°	2407.6	2404.7	2393.4	2389.1	2383.4	2382.0	2384.8
30°	2298.2	2293.9	2285.4	2281.2	2271.2	2272.6	2275.5
32.5°	2161.9	2156.2	2144.8	2140.5	2132.0	2129.2	2130.6
35°	1991.4	1987.2	1977.2	1977.2	1968.7	1965.8	1968.7
37.5°	1818.1	1822.3	1818.1	1822.3	1818.1	1816.7	1818.1
40°	1654.8	1670.4	1673.2	1688.9	1683.2	1691.7	1690.3
42.5°	1498.5	1524.1	1534.1	1546.8	1544.0	1549.7	1553.9
45°	1340.8	1362.2	1372.1	1380.6	1382.0	1384.9	1386.3
47.5°	1191.7	1208.8	1210.2	1220.1	1218.7	1218.7	1223.0
50°	1052.5	1063.9	1066.7	1073.8	1068.2	1065.3	1066.7
52.5°	923.3	934.6	931.8	934.6	927.5	924.7	926.1
55°	791.1	796.8	796.8	796.8	788.3	788.3	788.3
57.5°	656.2	657.7	654.8	656.2	654.8	646.3	644.9
60°	532.7	532.7	531.2	532.7	528.4	524.1	524.1
62.5°	416.2	419.0	424.7	419.0	416.2	419.0	414.7
65°	311.1	316.8	315.3	318.2	316.8	316.8	313.9
67.5°	234.4	235.8	237.2	238.7	238.7	238.7	238.7
70°	171.9	176.2	174.7	174.7	174.7	174.7	183.2
72.5°	115.1	120.7	119.3	122.1	122.1	125.0	122.1
75°	78.1	83.8	81.0	85.2	83.8	81.0	88.0
77.5°	52.6	55.4	56.8	58.2	56.8	55.4	56.8
80°	36.9	39.8	38.4	39.8	39.8	39.8	41.2
82.5°	22.7	27.0	25.5	27.0	25.5	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)