

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: P245009

Luminaire Tested: **LD8B50D010 ER8B50950 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245009
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: LD8B50D010 ER8B50950 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5033.0 lumens
Efficiency: N/A
Efficacy: 95.0 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

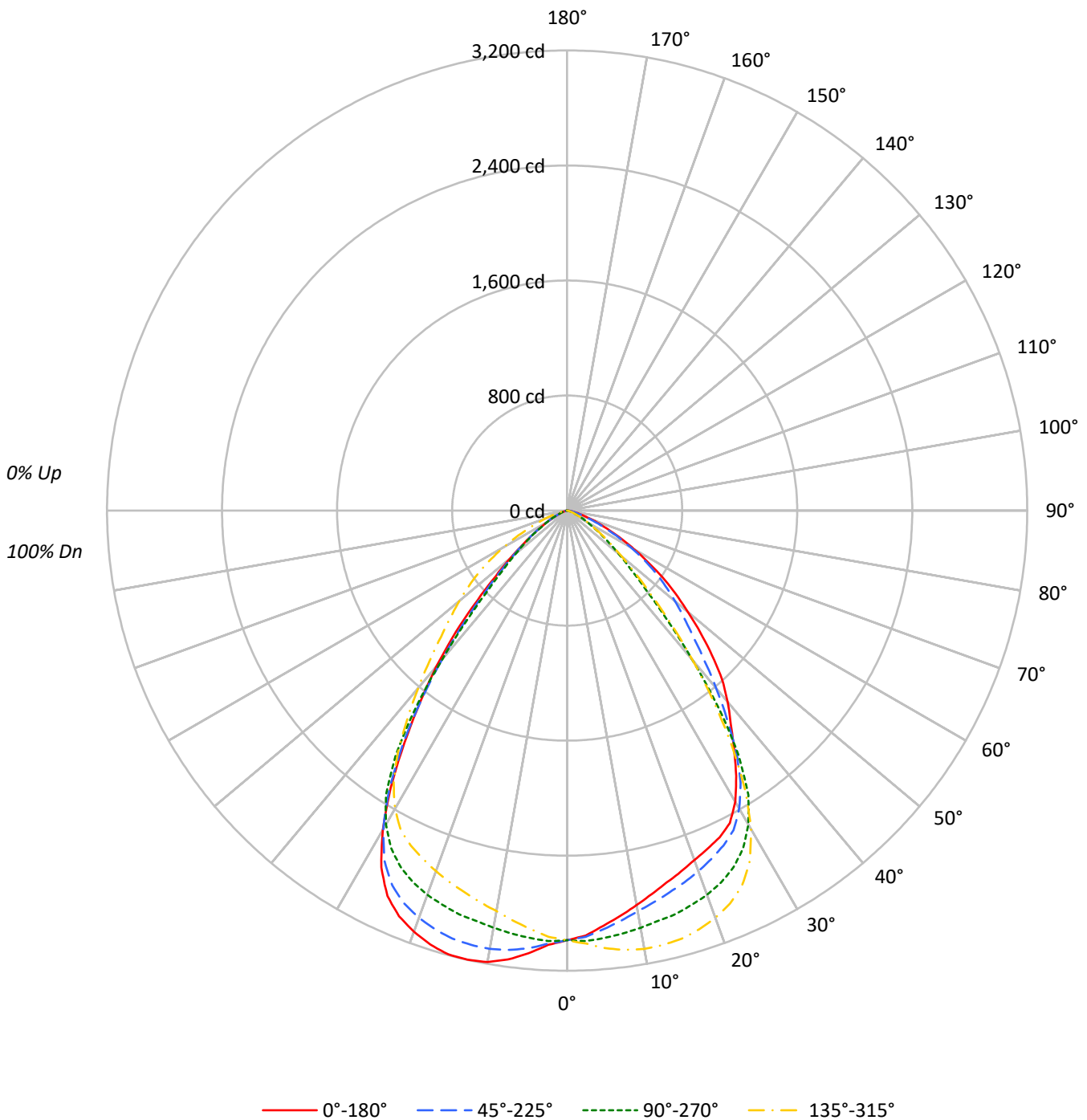
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245009

CATALOG NUMBER: LD8B50D010 ER8B50950 8LBSW0WMH

Luminous Intensity Polar Plot





TEST NUMBER: P245009

CATALOG NUMBER: LD8B50D010 ER8B50950 8LBSW0WMH

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°	92136	92136	92136	92136
5°	89690	92352	95651	92352
10°	87207	92233	99816	92233
15°	85467	92781	102001	92781
20°	84883	93310	102262	93310
25°	85329	93124	100619	93124
30°	83220	89715	91328	89715
35°	76120	78262	74253	78262
40°	69889	54439	56851	54439
45°	62095	33213	38428	33213
50°	52559	22187	24639	22187
55°	43531	15139	15999	15139
60°	33205	10077	10164	10077
65°	23524	6282	5750	6282
70°	16968	4210	3814	4210
75°	10770	2085	1739	2085
80°	7512	1563	1296	1563
85°	6722	0	495	0



TEST NUMBER: P245009

CATALOG NUMBER: LD8B50D010 ER8B50950 8LBSW0WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.4	5.7
10°-20°	823.6	16.4
20°-30°	1247.0	24.8
30°-40°	1249.8	24.8
40°-50°	784.8	15.6
50°-60°	418.2	8.3
60°-70°	172.0	3.4
70°-80°	45.4	0.9
80°-90°	7.7	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°	2355.0	46.8
0°-40°	3604.8	71.6
0°-60°	4807.9	95.5
0°-90°	5033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5033.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2988	2988	2988	2988	2988	
5°	2898	2984	3090	2984	2898	273
15°	2677	2906	3195	2906	2677	757
25°	2508	2737	2957	2737	2508	1150
35°	2022	2079	1972	2079	2022	1267
45°	1424	762	881	762	1424	1095
55°	810	282	298	282	810	722
65°	322	86	79	86	322	334
75°	90	18	15	18	90	102
85°	19	0	1	0	19	21
90°	0	0	0	0	0	



TEST NUMBER: P245009

CATALOG NUMBER: LD8B50D010 ER8B50950 8LBSW0WMH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9
2.5°	2957.3	2954.4	2952.9	2955.9	2957.3	2963.1	2961.7	2964.6	2964.6	2966.1	2969.0
5°	2897.5	2896.0	2897.5	2897.5	2903.3	2909.1	2907.7	2912.1	2915.0	2922.3	2925.2
7.5°	2842.1	2842.1	2840.6	2846.4	2849.3	2858.1	2856.6	2863.9	2868.3	2875.6	2885.8
10°	2785.1	2785.1	2786.6	2791.0	2792.5	2805.6	2805.6	2815.8	2821.6	2828.9	2842.1
12.5°	2729.7	2729.7	2738.5	2735.5	2741.4	2751.6	2756.0	2766.2	2774.9	2789.5	2802.7
15°	2677.2	2677.2	2680.1	2687.4	2691.8	2704.9	2712.2	2723.9	2734.1	2748.7	2767.7
17.5°	2631.9	2630.5	2631.9	2640.7	2649.5	2661.1	2667.0	2681.5	2691.8	2710.7	2728.3
20°	2586.7	2589.7	2589.7	2596.9	2602.8	2617.4	2623.2	2639.3	2650.9	2668.4	2688.9
22.5°	2547.3	2545.9	2545.9	2556.1	2560.5	2573.6	2579.4	2594.0	2607.1	2621.7	2640.7
25°	2507.9	2505.0	2510.9	2512.3	2515.2	2529.8	2534.2	2544.4	2557.5	2570.7	2589.7
27.5°	2449.6	2446.7	2448.1	2454.0	2458.3	2470.0	2472.9	2483.1	2493.3	2505.0	2521.1
30°	2337.2	2334.3	2332.9	2343.1	2347.5	2356.2	2360.6	2378.1	2381.0	2394.1	2405.8
32.5°	2188.4	2187.0	2189.9	2198.6	2203.0	2214.7	2220.5	2230.7	2238.0	2245.3	2257.0
35°	2022.1	2019.2	2022.1	2030.9	2030.9	2041.1	2045.5	2049.8	2048.4	2049.8	2046.9
37.5°	1867.5	1866.0	1867.5	1871.8	1867.5	1871.8	1867.5	1858.7	1842.7	1825.2	1807.6
40°	1736.2	1737.6	1728.9	1734.7	1718.6	1715.7	1699.7	1677.8	1645.7	1610.7	1561.1
42.5°	1596.1	1591.7	1585.9	1588.8	1575.7	1565.4	1539.2	1511.5	1470.6	1412.3	1352.4
45°	1423.9	1422.5	1419.6	1418.1	1409.4	1399.1	1377.2	1345.2	1299.9	1240.1	1168.6
47.5°	1256.2	1251.8	1251.8	1253.2	1243.0	1241.6	1224.0	1196.4	1157.0	1098.6	1024.2
50°	1095.6	1094.2	1097.1	1103.0	1095.6	1092.8	1081.1	1062.1	1027.1	977.5	907.4
52.5°	951.2	949.8	952.7	960.0	957.0	960.0	948.3	933.7	910.4	862.2	801.0
55°	809.7	809.7	809.7	818.4	818.4	818.4	812.6	803.9	782.0	747.0	690.1
57.5°	662.4	663.8	672.6	674.0	672.6	675.5	674.0	665.3	650.7	625.9	582.1
60°	538.4	538.4	542.7	547.1	545.6	547.1	547.1	542.7	528.2	507.7	472.7
62.5°	426.0	430.4	427.4	430.4	436.2	430.4	427.4	424.6	414.4	401.2	372.0
65°	322.4	325.4	325.4	326.8	323.9	325.4	319.5	315.2	309.3	294.7	275.8
67.5°	245.1	245.1	245.1	245.1	243.6	242.2	240.7	236.4	226.2	220.3	199.9
70°	188.2	179.4	179.4	179.4	179.4	180.9	176.6	170.7	167.8	157.6	143.0
72.5°	125.4	128.4	125.4	125.4	122.6	124.0	118.2	115.2	112.4	106.5	97.8
75°	90.4	83.2	86.1	87.6	83.2	86.1	80.2	74.4	74.4	70.0	65.6
77.5°	58.4	56.9	58.4	59.8	58.4	56.9	54.0	51.0	51.0	49.6	45.2
80°	42.3	40.8	40.8	40.8	39.4	40.8	38.0	38.0	35.0	33.6	30.6
82.5°	27.7	27.7	26.2	27.7	26.2	27.7	23.4	23.4	23.4	21.9	19.0
85°	19.0	16.0	16.0	17.5	14.6	17.5	16.0	14.6	13.2	13.2	11.7
87.5°	8.8	10.2	8.8	10.2	8.8	8.8	10.2	8.8	8.8	5.8	5.8
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: P245009

CATALOG NUMBER: LD8B50D010 ER8B50950 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9
2.5°	2973.3	2974.8	2974.8	2980.7	2983.5	2985.0	2985.0	2996.7	2992.3	2995.3	2998.1
5°	2931.1	2939.8	2942.7	2942.7	2958.7	2964.6	2970.4	2983.5	2985.0	2993.8	3004.0
7.5°	2890.2	2900.4	2906.3	2919.4	2929.6	2939.8	2957.3	2966.1	2974.8	2986.5	2999.6
10°	2850.8	2862.5	2874.1	2884.3	2900.4	2913.5	2925.2	2945.6	2955.9	2971.9	2989.4
12.5°	2812.9	2828.9	2839.1	2856.6	2874.1	2885.8	2903.3	2922.3	2938.3	2954.4	2974.8
15°	2779.3	2798.3	2809.9	2828.9	2847.9	2863.9	2882.9	2906.3	2917.9	2936.9	2955.9
17.5°	2742.8	2763.3	2777.9	2795.3	2818.7	2836.2	2852.3	2875.6	2890.2	2910.6	2932.5
20°	2704.9	2725.3	2742.8	2760.3	2783.7	2801.2	2820.1	2843.5	2859.5	2880.0	2897.5
22.5°	2659.7	2678.7	2697.6	2718.0	2741.4	2756.0	2777.9	2798.3	2815.8	2834.7	2852.3
25°	2601.3	2624.7	2639.3	2658.2	2677.2	2693.2	2716.6	2737.0	2751.6	2769.1	2785.1
27.5°	2532.7	2550.3	2561.9	2578.0	2596.9	2611.5	2629.0	2649.5	2664.1	2680.1	2691.8
30°	2416.0	2432.1	2442.3	2454.0	2472.9	2486.1	2500.7	2519.6	2529.8	2541.5	2551.7
32.5°	2262.8	2276.0	2281.8	2290.6	2303.7	2316.8	2328.5	2344.5	2348.9	2356.2	2356.2
35°	2041.1	2044.0	2042.5	2045.5	2051.3	2058.6	2068.8	2079.0	2084.8	2084.8	2080.5
37.5°	1781.4	1763.9	1744.9	1730.3	1725.9	1723.0	1728.9	1733.2	1739.1	1742.0	1734.7
40°	1511.5	1472.1	1429.8	1391.8	1365.6	1353.9	1349.5	1352.4	1352.4	1362.6	1362.6
42.5°	1279.5	1218.2	1155.5	1098.6	1060.6	1031.5	1018.4	1018.4	1019.8	1027.1	1031.5
45°	1086.9	1009.6	936.6	873.9	821.4	783.4	766.0	761.6	760.1	763.0	773.2
47.5°	939.6	859.3	783.4	706.1	650.7	612.8	596.7	590.8	585.0	590.8	592.4
50°	824.3	741.2	660.9	583.6	525.2	491.6	471.2	462.5	461.0	461.0	464.0
52.5°	719.2	642.0	561.7	482.9	421.6	389.6	370.6	366.2	360.4	366.2	366.2
55°	620.0	542.7	464.0	389.6	338.5	304.9	287.4	281.6	278.6	283.0	283.0
57.5°	512.1	446.4	373.5	306.4	255.3	232.0	218.8	211.6	210.1	213.0	210.1
60°	420.2	364.8	302.0	240.7	201.4	176.6	166.3	163.4	160.5	163.4	163.4
62.5°	332.6	286.0	234.9	188.2	154.6	137.2	125.4	125.4	124.0	124.0	125.4
65°	246.6	210.1	173.6	134.2	108.0	94.8	86.1	86.1	84.6	86.1	84.6
67.5°	179.4	154.6	125.4	97.8	77.3	70.0	64.2	59.8	62.8	59.8	58.4
70°	131.3	110.9	90.4	74.4	59.8	52.5	48.2	46.7	43.8	43.8	43.8
72.5°	87.6	74.4	61.3	48.2	39.4	32.1	30.6	27.7	24.8	26.2	29.2
75°	58.4	49.6	43.8	35.0	26.2	26.2	17.5	17.5	14.6	17.5	13.2
77.5°	40.8	33.6	26.2	21.9	17.5	16.0	11.7	11.7	10.2	10.2	10.2
80°	29.2	24.8	19.0	16.0	11.7	11.7	10.2	8.8	7.3	7.3	8.8
82.5°	17.5	13.2	13.2	11.7	7.3	5.8	4.4	5.8	2.9	2.9	2.9
85°	10.2	8.8	7.3	4.4	2.9	2.9	1.4	0.0	1.4	1.4	0.0
87.5°	5.8	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



TEST NUMBER: P245009

CATALOG NUMBER: LD8B50D010 ER8B50950 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9
2.5°	3005.5	3004.0	3006.9	3006.9	3015.7	3014.2	3018.6	3018.6	3015.7	3017.1	3022.9
5°	3015.7	3020.1	3028.8	3036.1	3049.2	3055.1	3062.3	3069.7	3071.1	3075.5	3079.9
7.5°	3015.7	3030.3	3040.5	3053.6	3071.1	3081.3	3097.3	3110.5	3116.3	3123.6	3132.4
10°	3009.8	3024.4	3043.4	3058.0	3079.9	3095.9	3111.9	3132.4	3141.1	3152.8	3164.5
12.5°	2998.1	3014.2	3034.6	3053.6	3078.4	3093.0	3113.4	3132.4	3145.5	3161.5	3174.7
15°	2980.7	2999.6	3018.6	3037.5	3063.8	3081.3	3100.3	3122.1	3135.3	3152.8	3164.5
17.5°	2952.9	2973.3	2990.9	3008.4	3033.2	3053.6	3071.1	3091.5	3104.7	3119.3	3135.3
20°	2919.4	2938.3	2957.3	2971.9	2996.7	3014.2	3033.2	3052.1	3062.3	3065.3	3090.1
22.5°	2877.1	2890.2	2904.8	2928.1	2942.7	2958.7	2976.3	2993.8	3004.0	3020.1	3028.8
25°	2807.0	2820.1	2836.2	2846.4	2863.9	2877.1	2894.6	2913.5	2919.4	2931.1	2939.8
27.5°	2709.3	2716.6	2723.9	2732.6	2742.8	2750.1	2760.3	2769.1	2774.9	2780.8	2786.6
30°	2554.6	2554.6	2554.6	2548.8	2553.2	2557.5	2559.0	2557.5	2557.5	2556.1	2556.1
32.5°	2350.4	2338.7	2325.6	2313.9	2309.5	2303.7	2300.8	2296.4	2289.1	2284.7	2286.2
35°	2074.6	2048.4	2032.3	2017.7	2006.1	1997.3	1992.9	1988.6	1987.1	1981.3	1975.4
37.5°	1730.3	1711.4	1699.7	1690.9	1680.7	1672.0	1673.4	1674.9	1679.2	1676.3	1677.8
40°	1365.6	1361.2	1365.6	1355.4	1352.4	1355.4	1362.6	1372.9	1378.7	1384.6	1394.8
42.5°	1038.8	1046.0	1056.3	1056.3	1060.6	1066.5	1075.2	1091.3	1100.0	1110.2	1121.9
45°	782.0	790.8	803.9	808.2	811.2	818.4	828.7	841.8	847.6	856.4	866.6
47.5°	602.6	608.4	615.7	623.0	630.2	633.2	643.4	643.4	650.7	656.5	659.4
50°	469.8	475.6	481.4	485.8	488.8	493.1	496.0	500.4	501.9	504.8	506.2
52.5°	367.6	375.0	375.0	377.8	382.2	386.6	385.2	386.6	388.1	388.1	392.4
55°	287.4	287.4	291.8	291.8	294.7	293.2	294.7	294.7	294.7	294.7	296.2
57.5°	214.4	215.9	220.3	217.4	215.9	218.8	215.9	218.8	217.4	220.3	215.9
60°	164.8	164.8	166.3	166.3	167.8	167.8	167.8	166.3	166.3	164.8	164.8
62.5°	124.0	125.4	126.9	125.4	125.4	125.4	124.0	124.0	122.6	121.1	121.1
65°	83.2	81.7	84.6	81.7	83.2	83.2	81.7	83.2	78.8	80.2	78.8
67.5°	59.8	58.4	56.9	58.4	56.9	55.4	55.4	56.9	58.4	54.0	54.0
70°	39.4	40.8	39.4	40.8	42.3	42.3	40.8	39.4	40.8	38.0	39.4
72.5°	24.8	24.8	24.8	24.8	24.8	26.2	26.2	26.2	23.4	23.4	21.9
75°	11.7	16.0	13.2	11.7	16.0	16.0	14.6	14.6	13.2	13.2	13.2
77.5°	11.7	8.8	8.8	8.8	8.8	8.8	8.8	8.8	7.3	8.8	7.3
80°	5.8	5.8	5.8	4.4	5.8	5.8	7.3	5.8	5.8	4.4	7.3
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: P245009

CATALOG NUMBER: LD8B50D010 ER8B50950 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9
2.5°	3021.5	3020.1	3021.5	3022.9	3021.5	3020.1	3021.5	3022.9	3017.1	3015.7	3018.6
5°	3085.7	3085.7	3088.6	3090.1	3088.6	3085.7	3085.7	3079.9	3075.5	3071.1	3069.7
7.5°	3141.1	3144.1	3146.9	3148.4	3146.9	3144.1	3141.1	3132.4	3123.6	3116.3	3110.5
10°	3174.7	3179.1	3184.9	3187.8	3184.9	3179.1	3174.7	3164.5	3152.8	3141.1	3132.4
12.5°	3189.3	3193.7	3200.9	3199.5	3200.9	3193.7	3189.3	3174.7	3161.5	3145.5	3132.4
15°	3179.1	3184.9	3192.2	3195.1	3192.2	3184.9	3179.1	3164.5	3152.8	3135.3	3122.1
17.5°	3146.9	3155.7	3160.1	3164.5	3160.1	3155.7	3146.9	3135.3	3119.3	3104.7	3091.5
20°	3103.2	3109.1	3114.9	3116.3	3114.9	3109.1	3103.2	3090.1	3065.3	3062.3	3052.1
22.5°	3040.5	3044.9	3058.0	3053.6	3058.0	3044.9	3040.5	3028.8	3020.1	3004.0	2993.8
25°	2950.0	2954.4	2955.9	2957.3	2955.9	2954.4	2950.0	2939.8	2931.1	2919.4	2913.5
27.5°	2793.9	2793.9	2796.8	2798.3	2796.8	2793.9	2793.9	2786.6	2780.8	2774.9	2769.1
30°	2557.5	2557.5	2557.5	2564.9	2557.5	2557.5	2557.5	2556.1	2556.1	2557.5	2557.5
32.5°	2284.7	2281.8	2278.9	2281.8	2278.9	2281.8	2284.7	2286.2	2284.7	2289.1	2296.4
35°	1975.4	1974.0	1978.3	1972.5	1978.3	1974.0	1975.4	1975.4	1981.3	1987.1	1988.6
37.5°	1679.2	1676.3	1682.2	1676.3	1682.2	1676.3	1679.2	1677.8	1676.3	1679.2	1674.9
40°	1397.7	1400.6	1400.6	1412.3	1400.6	1400.6	1397.7	1394.8	1384.6	1378.7	1372.9
42.5°	1127.8	1136.5	1133.6	1142.4	1133.6	1136.5	1127.8	1121.9	1110.2	1100.0	1091.3
45°	872.4	878.3	878.3	881.2	878.3	878.3	872.4	866.6	856.4	847.6	841.8
47.5°	669.6	669.6	669.6	671.1	669.6	669.6	669.6	659.4	656.5	650.7	643.4
50°	509.2	510.6	512.1	513.6	512.1	510.6	509.2	506.2	504.8	501.9	500.4
52.5°	391.0	392.4	389.6	392.4	389.6	392.4	391.0	392.4	388.1	388.1	386.6
55°	296.2	294.7	296.2	297.6	296.2	294.7	296.2	296.2	294.7	294.7	294.7
57.5°	217.4	214.4	214.4	214.4	214.4	214.4	217.4	215.9	220.3	217.4	218.8
60°	162.0	163.4	163.4	164.8	163.4	163.4	162.0	164.8	164.8	166.3	166.3
62.5°	119.6	124.0	121.1	124.0	121.1	124.0	119.6	121.1	121.1	122.6	124.0
65°	77.3	77.3	77.3	78.8	77.3	77.3	77.3	78.8	80.2	78.8	83.2
67.5°	52.5	54.0	56.9	55.4	56.9	54.0	52.5	54.0	54.0	58.4	56.9
70°	42.3	38.0	38.0	42.3	38.0	38.0	42.3	39.4	38.0	40.8	39.4
72.5°	24.8	21.9	24.8	24.8	24.8	21.9	24.8	21.9	23.4	23.4	26.2
75°	13.2	11.7	10.2	14.6	10.2	11.7	13.2	13.2	13.2	13.2	14.6
77.5°	8.8	7.3	10.2	10.2	10.2	7.3	8.8	7.3	8.8	7.3	8.8
80°	4.4	5.8	4.4	7.3	4.4	5.8	4.4	7.3	4.4	5.8	5.8
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: P245009

CATALOG NUMBER: LD8B50D010 ER8B50950 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9
2.5°	3018.6	3014.2	3015.7	3006.9	3006.9	3004.0	3005.5	2998.1	2995.3	2992.3	2996.7
5°	3062.3	3055.1	3049.2	3036.1	3028.8	3020.1	3015.7	3004.0	2993.8	2985.0	2983.5
7.5°	3097.3	3081.3	3071.1	3053.6	3040.5	3030.3	3015.7	2999.6	2986.5	2974.8	2966.1
10°	3111.9	3095.9	3079.9	3058.0	3043.4	3024.4	3009.8	2989.4	2971.9	2955.9	2945.6
12.5°	3113.4	3093.0	3078.4	3053.6	3034.6	3014.2	2998.1	2974.8	2954.4	2938.3	2922.3
15°	3100.3	3081.3	3063.8	3037.5	3018.6	2999.6	2980.7	2955.9	2936.9	2917.9	2906.3
17.5°	3071.1	3053.6	3033.2	3008.4	2990.9	2973.3	2952.9	2932.5	2910.6	2890.2	2875.6
20°	3033.2	3014.2	2996.7	2971.9	2957.3	2938.3	2919.4	2897.5	2880.0	2859.5	2843.5
22.5°	2976.3	2958.7	2942.7	2928.1	2904.8	2890.2	2877.1	2852.3	2834.7	2815.8	2798.3
25°	2894.6	2877.1	2863.9	2846.4	2836.2	2820.1	2807.0	2785.1	2769.1	2751.6	2737.0
27.5°	2760.3	2750.1	2742.8	2732.6	2723.9	2716.6	2709.3	2691.8	2680.1	2664.1	2649.5
30°	2559.0	2557.5	2553.2	2548.8	2554.6	2554.6	2554.6	2551.7	2541.5	2529.8	2519.6
32.5°	2300.8	2303.7	2309.5	2313.9	2325.6	2338.7	2350.4	2356.2	2356.2	2348.9	2344.5
35°	1992.9	1997.3	2006.1	2017.7	2032.3	2048.4	2074.6	2080.5	2084.8	2084.8	2079.0
37.5°	1673.4	1672.0	1680.7	1690.9	1699.7	1711.4	1730.3	1734.7	1742.0	1739.1	1733.2
40°	1362.6	1355.4	1352.4	1355.4	1365.6	1361.2	1365.6	1362.6	1362.6	1352.4	1352.4
42.5°	1075.2	1066.5	1060.6	1056.3	1056.3	1046.0	1038.8	1031.5	1027.1	1019.8	1018.4
45°	828.7	818.4	811.2	808.2	803.9	790.8	782.0	773.2	763.0	760.1	761.6
47.5°	643.4	633.2	630.2	623.0	615.7	608.4	602.6	592.4	590.8	585.0	590.8
50°	496.0	493.1	488.8	485.8	481.4	475.6	469.8	464.0	461.0	461.0	462.5
52.5°	385.2	386.6	382.2	377.8	375.0	375.0	367.6	366.2	366.2	360.4	366.2
55°	294.7	293.2	294.7	291.8	291.8	287.4	287.4	283.0	283.0	278.6	281.6
57.5°	215.9	218.8	215.9	217.4	220.3	215.9	214.4	210.1	213.0	210.1	211.6
60°	167.8	167.8	167.8	166.3	166.3	164.8	164.8	163.4	163.4	160.5	163.4
62.5°	124.0	125.4	125.4	125.4	126.9	125.4	124.0	125.4	124.0	124.0	125.4
65°	81.7	83.2	83.2	81.7	84.6	81.7	83.2	84.6	86.1	84.6	86.1
67.5°	55.4	55.4	56.9	58.4	56.9	58.4	59.8	58.4	59.8	62.8	59.8
70°	40.8	42.3	42.3	40.8	39.4	40.8	39.4	43.8	43.8	43.8	46.7
72.5°	26.2	26.2	24.8	24.8	24.8	24.8	24.8	29.2	26.2	24.8	27.7
75°	14.6	16.0	16.0	11.7	13.2	16.0	11.7	13.2	17.5	14.6	17.5
77.5°	8.8	8.8	8.8	8.8	8.8	8.8	11.7	10.2	10.2	10.2	11.7
80°	7.3	5.8	5.8	4.4	5.8	5.8	5.8	8.8	7.3	7.3	8.8
82.5°	2.9	2.9	1.4	0.0	2.9	2.9	2.9	2.9	2.9	2.9	5.8
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: P245009

CATALOG NUMBER: LD8B50D010 ER8B50950 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9
2.5°	2985.0	2985.0	2983.5	2980.7	2974.8	2974.8	2973.3	2969.0	2966.1	2964.6	2964.6
5°	2970.4	2964.6	2958.7	2942.7	2942.7	2939.8	2931.1	2925.2	2922.3	2915.0	2912.1
7.5°	2957.3	2939.8	2929.6	2919.4	2906.3	2900.4	2890.2	2885.8	2875.6	2868.3	2863.9
10°	2925.2	2913.5	2900.4	2884.3	2874.1	2862.5	2850.8	2842.1	2828.9	2821.6	2815.8
12.5°	2903.3	2885.8	2874.1	2856.6	2839.1	2828.9	2812.9	2802.7	2789.5	2774.9	2766.2
15°	2882.9	2863.9	2847.9	2828.9	2809.9	2798.3	2779.3	2767.7	2748.7	2734.1	2723.9
17.5°	2852.3	2836.2	2818.7	2795.3	2777.9	2763.3	2742.8	2728.3	2710.7	2691.8	2681.5
20°	2820.1	2801.2	2783.7	2760.3	2742.8	2725.3	2704.9	2688.9	2668.4	2650.9	2639.3
22.5°	2777.9	2756.0	2741.4	2718.0	2697.6	2678.7	2659.7	2640.7	2621.7	2607.1	2594.0
25°	2716.6	2693.2	2677.2	2658.2	2639.3	2624.7	2601.3	2589.7	2570.7	2557.5	2544.4
27.5°	2629.0	2611.5	2596.9	2578.0	2561.9	2550.3	2532.7	2521.1	2505.0	2493.3	2483.1
30°	2500.7	2486.1	2472.9	2454.0	2442.3	2432.1	2416.0	2405.8	2394.1	2381.0	2378.1
32.5°	2328.5	2316.8	2303.7	2290.6	2281.8	2276.0	2262.8	2257.0	2245.3	2238.0	2230.7
35°	2068.8	2058.6	2051.3	2045.5	2042.5	2044.0	2041.1	2046.9	2049.8	2048.4	2049.8
37.5°	1728.9	1723.0	1725.9	1730.3	1744.9	1763.9	1781.4	1807.6	1825.2	1842.7	1858.7
40°	1349.5	1353.9	1365.6	1391.8	1429.8	1472.1	1511.5	1561.1	1610.7	1645.7	1677.8
42.5°	1018.4	1031.5	1060.6	1098.6	1155.5	1218.2	1279.5	1352.4	1412.3	1470.6	1511.5
45°	766.0	783.4	821.4	873.9	936.6	1009.6	1086.9	1168.6	1240.1	1299.9	1345.2
47.5°	596.7	612.8	650.7	706.1	783.4	859.3	939.6	1024.2	1098.6	1157.0	1196.4
50°	471.2	491.6	525.2	583.6	660.9	741.2	824.3	907.4	977.5	1027.1	1062.1
52.5°	370.6	389.6	421.6	482.9	561.7	642.0	719.2	801.0	862.2	910.4	933.7
55°	287.4	304.9	338.5	389.6	464.0	542.7	620.0	690.1	747.0	782.0	803.9
57.5°	218.8	232.0	255.3	306.4	373.5	446.4	512.1	582.1	625.9	650.7	665.3
60°	166.3	176.6	201.4	240.7	302.0	364.8	420.2	472.7	507.7	528.2	542.7
62.5°	125.4	137.2	154.6	188.2	234.9	286.0	332.6	372.0	401.2	414.4	424.6
65°	86.1	94.8	108.0	134.2	173.6	210.1	246.6	275.8	294.7	309.3	315.2
67.5°	64.2	70.0	77.3	97.8	125.4	154.6	179.4	199.9	220.3	226.2	236.4
70°	48.2	52.5	59.8	74.4	90.4	110.9	131.3	143.0	157.6	167.8	170.7
72.5°	30.6	32.1	39.4	48.2	61.3	74.4	87.6	97.8	106.5	112.4	115.2
75°	17.5	26.2	26.2	35.0	43.8	49.6	58.4	65.6	70.0	74.4	74.4
77.5°	11.7	16.0	17.5	21.9	26.2	33.6	40.8	45.2	49.6	51.0	51.0
80°	10.2	11.7	11.7	16.0	19.0	24.8	29.2	30.6	33.6	35.0	38.0
82.5°	4.4	5.8	7.3	11.7	13.2	13.2	17.5	19.0	21.9	23.4	23.4
85°	1.4	2.9	2.9	4.4	7.3	8.8	10.2	11.7	13.2	13.2	14.6
87.5°	1.4	1.4	0.0	1.4	2.9	2.9	5.8	5.8	5.8	8.8	8.8
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: P245009

CATALOG NUMBER: LD8B50D010 ER8B50950 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9	2987.9
2.5°	2961.7	2963.1	2957.3	2955.9	2952.9	2954.4	2957.3
5°	2907.7	2909.1	2903.3	2897.5	2897.5	2896.0	2897.5
7.5°	2856.6	2858.1	2849.3	2846.4	2840.6	2842.1	2842.1
10°	2805.6	2805.6	2792.5	2791.0	2786.6	2785.1	2785.1
12.5°	2756.0	2751.6	2741.4	2735.5	2738.5	2729.7	2729.7
15°	2712.2	2704.9	2691.8	2687.4	2680.1	2677.2	2677.2
17.5°	2667.0	2661.1	2649.5	2640.7	2631.9	2630.5	2631.9
20°	2623.2	2617.4	2602.8	2596.9	2589.7	2589.7	2586.7
22.5°	2579.4	2573.6	2560.5	2556.1	2545.9	2545.9	2547.3
25°	2534.2	2529.8	2515.2	2512.3	2510.9	2505.0	2507.9
27.5°	2472.9	2470.0	2458.3	2454.0	2448.1	2446.7	2449.6
30°	2360.6	2356.2	2347.5	2343.1	2332.9	2334.3	2337.2
32.5°	2220.5	2214.7	2203.0	2198.6	2189.9	2187.0	2188.4
35°	2045.5	2041.1	2030.9	2030.9	2022.1	2019.2	2022.1
37.5°	1867.5	1871.8	1867.5	1871.8	1867.5	1866.0	1867.5
40°	1699.7	1715.7	1718.6	1734.7	1728.9	1737.6	1736.2
42.5°	1539.2	1565.4	1575.7	1588.8	1585.9	1591.7	1596.1
45°	1377.2	1399.1	1409.4	1418.1	1419.6	1422.5	1423.9
47.5°	1224.0	1241.6	1243.0	1253.2	1251.8	1251.8	1256.2
50°	1081.1	1092.8	1095.6	1103.0	1097.1	1094.2	1095.6
52.5°	948.3	960.0	957.0	960.0	952.7	949.8	951.2
55°	812.6	818.4	818.4	818.4	809.7	809.7	809.7
57.5°	674.0	675.5	672.6	674.0	672.6	663.8	662.4
60°	547.1	547.1	545.6	547.1	542.7	538.4	538.4
62.5°	427.4	430.4	436.2	430.4	427.4	430.4	426.0
65°	319.5	325.4	323.9	326.8	325.4	325.4	322.4
67.5°	240.7	242.2	243.6	245.1	245.1	245.1	245.1
70°	176.6	180.9	179.4	179.4	179.4	179.4	188.2
72.5°	118.2	124.0	122.6	125.4	125.4	128.4	125.4
75°	80.2	86.1	83.2	87.6	86.1	83.2	90.4
77.5°	54.0	56.9	58.4	59.8	58.4	56.9	58.4
80°	38.0	40.8	39.4	40.8	40.8	40.8	42.3
82.5°	23.4	27.7	26.2	27.7	26.2	27.7	27.7
85°	16.0	17.5	14.6	17.5	16.0	16.0	19.0
87.5°	10.2	8.8	8.8	10.2	8.8	10.2	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)