

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: P245963

Luminaire Tested: **LD8B50D010 ER8B50827 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245963
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 ER8B50827 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5111.0 lumens
Efficiency: N/A
Efficacy: 96.4 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

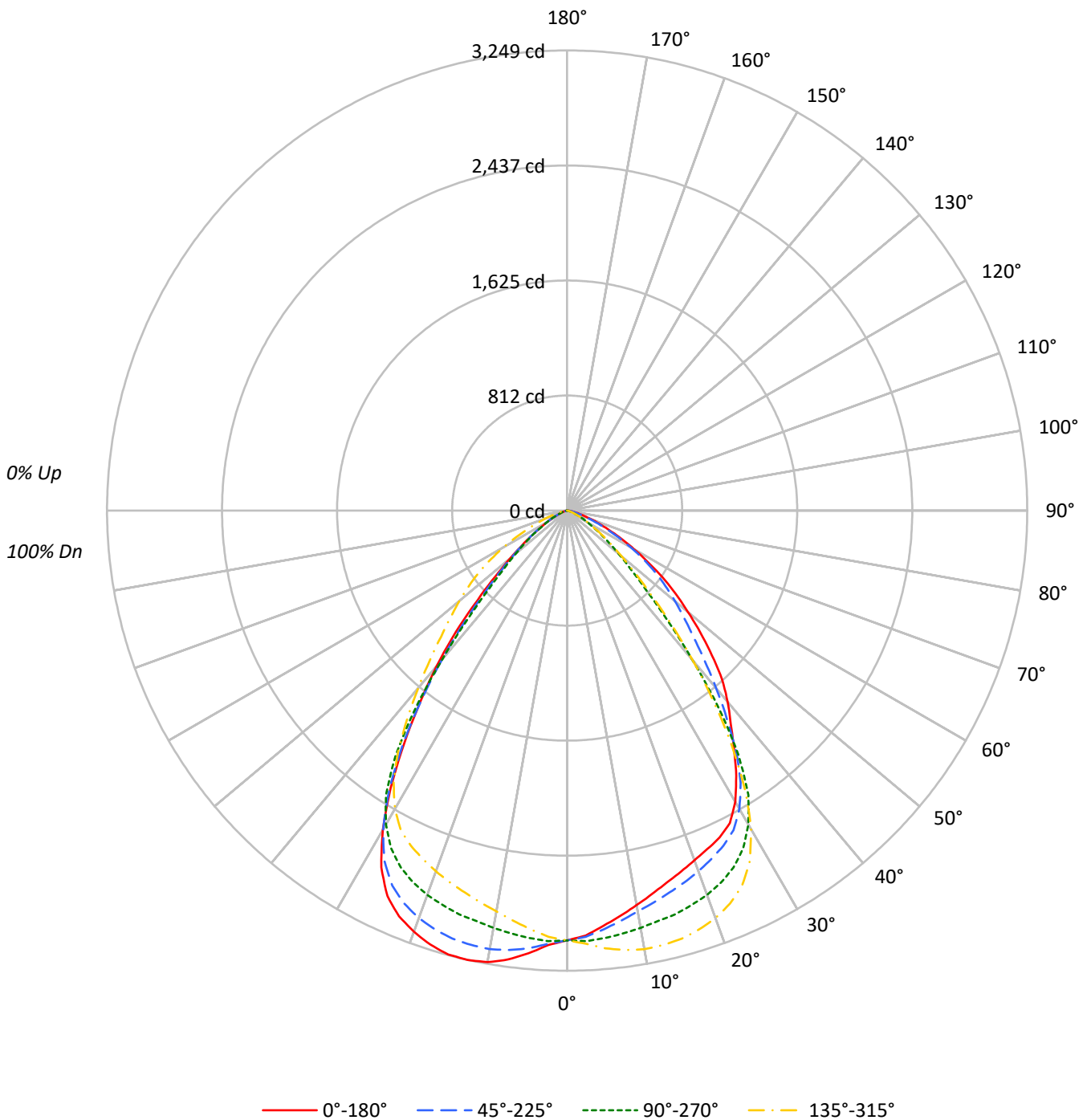
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	93564	93564	93564	93564
5°	91079	93785	97134	93785
10°	88560	93660	101363	93660
15°	86792	94218	103581	94218
20°	86199	94758	103847	94758
25°	86653	94567	102178	94567
30°	84509	91103	92741	91103
35°	77302	79474	75405	79474
40°	70972	55285	57732	55285
45°	63059	33727	39026	33727
50°	53375	22528	25018	22528
55°	44208	15370	16247	15370
60°	33716	10231	10324	10231
65°	23889	6377	5837	6377
70°	17229	4274	3877	4274
75°	10937	2121	1763	2121
80°	7636	1580	1314	1580
85°	6828	0	531	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.8	5.7
10°-20°	836.3	16.4
20°-30°	1266.4	24.8
30°-40°	1269.2	24.8
40°-50°	797.0	15.6
50°-60°	424.7	8.3
60°-70°	174.6	3.4
70°-80°	46.1	0.9
80°-90°	7.8	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°	2391.5	46.8
0°-40°	3660.7	71.6
0°-60°	4882.4	95.5
0°-90°	5111.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5111.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3034	3034	3034	3034	3034	
5°	2942	3030	3138	3030	2942	277
15°	2719	2951	3245	2951	2719	769
25°	2547	2779	3003	2779	2547	1168
35°	2054	2111	2003	2111	2054	1286
45°	1446	773	895	773	1446	1112
55°	822	286	302	286	822	733
65°	327	87	80	87	327	340
75°	92	18	15	18	92	104
85°	19	0	2	0	19	21
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°	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2
2.5°	3003.1	3000.1	2998.7	3001.7	3003.1	3009.1	3007.6	3010.5	3010.5	3012.0	3015.0
5°	2942.4	2940.9	2942.4	2942.4	2948.3	2954.2	2952.8	2957.2	2960.1	2967.6	2970.5
7.5°	2886.1	2886.1	2884.6	2890.5	2893.5	2902.4	2900.9	2908.3	2912.8	2920.1	2930.5
10°	2828.3	2828.3	2829.8	2834.2	2835.7	2849.0	2849.0	2859.4	2865.3	2872.8	2886.1
12.5°	2772.0	2772.0	2780.9	2777.9	2783.8	2794.2	2798.7	2809.0	2817.9	2832.8	2846.1
15°	2718.7	2718.7	2721.6	2729.0	2733.5	2746.8	2754.2	2766.1	2776.5	2791.3	2810.6
17.5°	2672.7	2671.3	2672.7	2681.6	2690.5	2702.4	2708.3	2723.1	2733.5	2752.7	2770.6
20°	2626.8	2629.8	2629.8	2637.2	2643.1	2657.9	2663.8	2680.2	2692.0	2709.8	2730.5
22.5°	2586.8	2585.3	2585.3	2595.7	2600.2	2613.5	2619.4	2634.2	2647.5	2662.4	2681.6
25°	2546.8	2543.8	2549.8	2551.3	2554.2	2569.0	2573.5	2583.8	2597.2	2610.5	2629.8
27.5°	2487.5	2484.6	2486.1	2492.0	2496.4	2508.3	2511.3	2521.6	2532.0	2543.8	2560.2
30°	2373.4	2370.5	2369.0	2379.4	2383.9	2392.7	2397.2	2415.0	2417.9	2431.2	2443.1
32.5°	2222.3	2220.9	2223.8	2232.7	2237.1	2249.0	2254.9	2265.3	2272.7	2280.1	2292.0
35°	2053.5	2050.5	2053.5	2062.4	2062.4	2072.7	2077.2	2081.6	2080.1	2081.6	2078.6
37.5°	1896.4	1894.9	1896.4	1900.8	1896.4	1900.8	1896.4	1887.5	1871.2	1853.4	1835.6
40°	1763.1	1764.5	1755.7	1761.6	1745.3	1742.3	1726.0	1703.8	1671.2	1635.7	1585.3
42.5°	1620.9	1616.4	1610.5	1613.4	1600.1	1589.7	1563.0	1534.9	1493.4	1434.2	1373.4
45°	1446.0	1444.6	1441.6	1440.1	1431.2	1420.8	1398.6	1366.0	1320.1	1259.3	1186.7
47.5°	1275.6	1271.2	1271.2	1272.6	1262.3	1260.8	1243.0	1214.9	1174.9	1115.6	1040.1
50°	1112.6	1111.2	1114.1	1120.1	1112.6	1109.7	1097.9	1078.6	1043.0	992.7	921.5
52.5°	966.0	964.5	967.5	974.9	971.9	974.9	963.0	948.2	924.5	875.6	813.4
55°	822.3	822.3	822.3	831.1	831.1	831.1	825.2	816.4	794.1	758.6	700.8
57.5°	672.6	674.1	683.0	684.5	683.0	686.0	684.5	675.6	660.8	635.6	591.2
60°	546.7	546.7	551.2	555.6	554.1	555.6	555.6	551.2	536.3	515.6	480.1
62.5°	432.6	437.1	434.1	437.1	443.0	437.1	434.1	431.1	420.8	407.4	377.8
65°	327.4	330.4	330.4	331.9	328.9	330.4	324.5	320.0	314.1	299.3	280.0
67.5°	248.9	248.9	248.9	248.9	247.4	245.9	244.5	240.0	229.7	223.7	202.9
70°	191.1	182.2	182.2	182.2	182.2	183.7	179.3	173.4	170.4	160.0	145.2
72.5°	127.4	130.4	127.4	127.4	124.5	125.9	120.0	117.0	114.1	108.2	99.3
75°	91.8	84.5	87.4	88.9	84.5	87.4	81.5	75.6	75.6	71.1	66.7
77.5°	59.3	57.8	59.3	60.7	59.3	57.8	54.8	51.8	51.8	50.4	45.9
80°	43.0	41.5	41.5	41.5	40.0	41.5	38.5	38.5	35.6	34.1	31.1
82.5°	28.2	28.2	26.6	28.2	26.6	28.2	23.7	23.7	23.7	22.2	19.3
85°	19.3	16.3	16.3	17.8	14.8	17.8	16.3	14.8	13.4	13.4	11.8
87.5°	8.9	10.4	8.9	10.4	8.9	8.9	10.4	8.9	8.9	5.9	5.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2
2.5°	3019.4	3020.9	3020.9	3026.9	3029.8	3031.3	3031.3	3043.1	3038.7	3041.7	3044.6
5°	2976.5	2985.3	2988.3	2988.3	3004.6	3010.5	3016.4	3029.8	3031.3	3040.2	3050.5
7.5°	2935.0	2945.3	2951.3	2964.6	2975.0	2985.3	3003.1	3012.0	3020.9	3032.8	3046.1
10°	2895.0	2906.8	2918.7	2929.0	2945.3	2958.7	2970.5	2991.2	3001.7	3018.0	3035.7
12.5°	2856.5	2872.8	2883.1	2900.9	2918.7	2930.5	2948.3	2967.6	2983.9	3000.1	3020.9
15°	2822.4	2841.7	2853.5	2872.8	2892.0	2908.3	2927.6	2951.3	2963.1	2982.4	3001.7
17.5°	2785.3	2806.1	2820.9	2838.7	2862.4	2880.1	2896.5	2920.1	2935.0	2955.7	2978.0
20°	2746.8	2767.6	2785.3	2803.1	2826.8	2844.6	2863.9	2887.6	2903.9	2924.6	2942.4
22.5°	2700.9	2720.2	2739.4	2760.1	2783.8	2798.7	2820.9	2841.7	2859.4	2878.7	2896.5
25°	2641.6	2665.4	2680.2	2699.4	2718.7	2734.9	2758.7	2779.4	2794.2	2812.0	2828.3
27.5°	2572.0	2589.8	2601.6	2617.9	2637.2	2652.0	2669.7	2690.5	2705.4	2721.6	2733.5
30°	2453.4	2469.8	2480.2	2492.0	2511.3	2524.6	2539.4	2558.6	2569.0	2580.9	2591.3
32.5°	2297.9	2311.2	2317.1	2326.1	2339.4	2352.7	2364.6	2380.9	2385.3	2392.7	2392.7
35°	2072.7	2075.7	2074.2	2077.2	2083.1	2090.5	2100.8	2111.2	2117.1	2117.1	2112.7
37.5°	1809.0	1791.2	1772.0	1757.1	1752.7	1749.7	1755.7	1760.1	1766.0	1769.0	1761.6
40°	1534.9	1494.9	1451.9	1413.4	1386.7	1374.9	1370.5	1373.4	1373.4	1383.8	1383.8
42.5°	1299.4	1237.1	1173.4	1115.6	1077.1	1047.5	1034.1	1034.1	1035.6	1043.0	1047.5
45°	1103.8	1025.2	951.1	887.5	834.1	795.6	777.8	773.4	771.9	774.8	785.2
47.5°	954.1	872.7	795.6	717.1	660.8	622.3	606.0	600.0	594.1	600.0	601.5
50°	837.1	752.6	671.2	592.6	533.4	499.3	478.5	469.6	468.2	468.2	471.1
52.5°	730.4	651.9	570.4	490.4	428.2	395.6	376.3	371.9	366.0	371.9	371.9
55°	629.6	551.2	471.1	395.6	343.7	309.7	291.9	285.9	283.0	287.4	287.4
57.5°	520.1	453.3	379.3	311.1	259.3	235.6	222.2	214.8	213.3	216.3	213.3
60°	426.7	370.4	306.7	244.5	204.5	179.3	168.9	165.9	162.9	165.9	165.9
62.5°	337.8	290.4	238.5	191.1	157.0	139.3	127.4	127.4	125.9	125.9	127.4
65°	250.4	213.3	176.3	136.3	109.6	96.3	87.4	87.4	85.9	87.4	85.9
67.5°	182.2	157.0	127.4	99.3	78.5	71.1	65.2	60.7	63.7	60.7	59.3
70°	133.4	112.6	91.8	75.6	60.7	53.4	48.9	47.4	44.5	44.5	44.5
72.5°	88.9	75.6	62.2	48.9	40.0	32.6	31.1	28.2	25.2	26.6	29.6
75°	59.3	50.4	44.5	35.6	26.6	26.6	17.8	17.8	14.8	17.8	13.4
77.5°	41.5	34.1	26.6	22.2	17.8	16.3	11.8	11.8	10.4	10.4	10.4
80°	29.6	25.2	19.3	16.3	11.8	11.8	10.4	8.9	7.4	7.4	8.9
82.5°	17.8	13.4	13.4	11.8	7.4	5.9	4.5	5.9	3.0	3.0	3.0
85°	10.4	8.9	7.4	4.5	3.0	3.0	1.5	0.0	1.5	1.5	0.0
87.5°	5.9	3.0	3.0	1.5	0.0	1.5	1.5	0.0	0.0	0.0	3.0
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°	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2
2.5°	3052.0	3050.5	3053.5	3053.5	3062.4	3060.9	3065.3	3065.3	3062.4	3063.9	3069.8
5°	3062.4	3066.9	3075.7	3083.1	3096.4	3102.4	3109.8	3117.2	3118.7	3123.2	3127.6
7.5°	3062.4	3077.2	3087.6	3100.9	3118.7	3129.1	3145.3	3158.7	3164.6	3172.0	3180.9
10°	3056.4	3071.3	3090.5	3105.3	3127.6	3143.9	3160.2	3180.9	3189.8	3201.6	3213.5
12.5°	3044.6	3060.9	3081.6	3100.9	3126.1	3140.9	3161.6	3180.9	3194.3	3210.5	3223.9
15°	3026.9	3046.1	3065.3	3084.6	3111.3	3129.1	3148.3	3170.5	3183.9	3201.6	3213.5
17.5°	2998.7	3019.4	3037.2	3055.0	3080.2	3100.9	3118.7	3139.4	3152.8	3167.6	3183.9
20°	2964.6	2983.9	3003.1	3018.0	3043.1	3060.9	3080.2	3099.4	3109.8	3112.8	3138.0
22.5°	2921.7	2935.0	2949.8	2973.5	2988.3	3004.6	3022.4	3040.2	3050.5	3066.9	3075.7
25°	2850.5	2863.9	2880.1	2890.5	2908.3	2921.7	2939.4	2958.7	2964.6	2976.5	2985.3
27.5°	2751.3	2758.7	2766.1	2774.9	2785.3	2792.7	2803.1	2812.0	2817.9	2823.8	2829.8
30°	2594.2	2594.2	2594.2	2588.3	2592.7	2597.2	2598.6	2597.2	2597.2	2595.7	2595.7
32.5°	2386.8	2375.0	2361.6	2349.8	2345.3	2339.4	2336.4	2332.0	2324.6	2320.1	2321.6
35°	2106.8	2080.1	2063.8	2049.0	2037.2	2028.3	2023.8	2019.4	2017.9	2012.0	2006.0
37.5°	1757.1	1737.9	1726.0	1717.1	1706.8	1697.9	1699.3	1700.9	1705.3	1702.3	1703.8
40°	1386.7	1382.3	1386.7	1376.4	1373.4	1376.4	1383.8	1394.2	1400.1	1406.0	1416.4
42.5°	1054.9	1062.3	1072.7	1072.7	1077.1	1083.0	1091.9	1108.2	1117.1	1127.4	1139.3
45°	794.1	803.0	816.4	820.8	823.7	831.1	841.6	854.9	860.8	869.7	880.0
47.5°	611.9	617.8	625.2	632.6	640.0	643.0	653.4	653.4	660.8	666.7	669.6
50°	477.1	483.0	488.9	493.3	496.3	500.8	503.7	508.2	509.6	512.6	514.1
52.5°	373.3	380.8	380.8	383.7	388.2	392.6	391.1	392.6	394.1	394.1	398.5
55°	291.9	291.9	296.3	296.3	299.3	297.8	299.3	299.3	299.3	299.3	300.8
57.5°	217.8	219.3	223.7	220.8	219.3	222.2	219.3	222.2	220.8	223.7	219.3
60°	167.4	167.4	168.9	168.9	170.4	170.4	170.4	168.9	168.9	167.4	167.4
62.5°	125.9	127.4	128.9	127.4	127.4	127.4	125.9	125.9	124.5	122.9	122.9
65°	84.5	83.0	85.9	83.0	84.5	84.5	83.0	84.5	80.0	81.5	80.0
67.5°	60.7	59.3	57.8	59.3	57.8	56.3	56.3	57.8	59.3	54.8	54.8
70°	40.0	41.5	40.0	41.5	43.0	43.0	41.5	40.0	41.5	38.5	40.0
72.5°	25.2	25.2	25.2	25.2	25.2	26.6	26.6	26.6	23.7	23.7	22.2
75°	11.8	16.3	13.4	11.8	16.3	16.3	14.8	14.8	13.4	13.4	13.4
77.5°	11.8	8.9	8.9	8.9	8.9	8.9	8.9	8.9	7.4	8.9	7.4
80°	5.9	5.9	5.9	4.5	5.9	5.9	7.4	5.9	5.9	4.5	7.4
82.5°	3.0	3.0	3.0	0.0	1.5	3.0	3.0	1.5	3.0	3.0	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: P245963

CATALOG NUMBER: LD8B50D010 ER8B50827 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2
2.5°	3068.3	3066.9	3068.3	3069.8	3068.3	3066.9	3068.3	3069.8	3063.9	3062.4	3065.3
5°	3133.5	3133.5	3136.4	3138.0	3136.4	3133.5	3133.5	3127.6	3123.2	3118.7	3117.2
7.5°	3189.8	3192.8	3195.7	3197.2	3195.7	3192.8	3189.8	3180.9	3172.0	3164.6	3158.7
10°	3223.9	3228.3	3234.3	3237.2	3234.3	3228.3	3223.9	3213.5	3201.6	3189.8	3180.9
12.5°	3238.7	3243.2	3250.5	3249.1	3250.5	3243.2	3238.7	3223.9	3210.5	3194.3	3180.9
15°	3228.3	3234.3	3241.6	3244.6	3241.6	3234.3	3228.3	3213.5	3201.6	3183.9	3170.5
17.5°	3195.7	3204.6	3209.1	3213.5	3209.1	3204.6	3195.7	3183.9	3167.6	3152.8	3139.4
20°	3151.3	3157.2	3163.2	3164.6	3163.2	3157.2	3151.3	3138.0	3112.8	3109.8	3099.4
22.5°	3087.6	3092.1	3105.3	3100.9	3105.3	3092.1	3087.6	3075.7	3066.9	3050.5	3040.2
25°	2995.7	3000.1	3001.7	3003.1	3001.7	3000.1	2995.7	2985.3	2976.5	2964.6	2958.7
27.5°	2837.2	2837.2	2840.1	2841.7	2840.1	2837.2	2837.2	2829.8	2823.8	2817.9	2812.0
30°	2597.2	2597.2	2597.2	2604.6	2597.2	2597.2	2597.2	2595.7	2595.7	2597.2	2597.2
32.5°	2320.1	2317.1	2314.2	2317.1	2314.2	2317.1	2320.1	2321.6	2320.1	2324.6	2332.0
35°	2006.0	2004.6	2009.0	2003.1	2009.0	2004.6	2006.0	2006.0	2012.0	2017.9	2019.4
37.5°	1705.3	1702.3	1708.2	1702.3	1708.2	1702.3	1705.3	1703.8	1702.3	1705.3	1700.9
40°	1419.4	1422.3	1422.3	1434.2	1422.3	1422.3	1419.4	1416.4	1406.0	1400.1	1394.2
42.5°	1145.2	1154.2	1151.2	1160.1	1151.2	1154.2	1145.2	1139.3	1127.4	1117.1	1108.2
45°	886.0	891.9	891.9	894.9	891.9	891.9	886.0	880.0	869.7	860.8	854.9
47.5°	680.0	680.0	680.0	681.5	680.0	680.0	680.0	669.6	666.7	660.8	653.4
50°	517.1	518.5	520.1	521.5	520.1	518.5	517.1	514.1	512.6	509.6	508.2
52.5°	397.1	398.5	395.6	398.5	395.6	398.5	397.1	398.5	394.1	394.1	392.6
55°	300.8	299.3	300.8	302.2	300.8	299.3	300.8	300.8	299.3	299.3	299.3
57.5°	220.8	217.8	217.8	217.8	217.8	217.8	220.8	219.3	223.7	220.8	222.2
60°	164.5	165.9	165.9	167.4	165.9	165.9	164.5	167.4	167.4	168.9	168.9
62.5°	121.5	125.9	122.9	125.9	122.9	125.9	121.5	122.9	122.9	124.5	125.9
65°	78.5	78.5	78.5	80.0	78.5	78.5	78.5	80.0	81.5	80.0	84.5
67.5°	53.4	54.8	57.8	56.3	57.8	54.8	53.4	54.8	54.8	59.3	57.8
70°	43.0	38.5	38.5	43.0	38.5	38.5	43.0	40.0	38.5	41.5	40.0
72.5°	25.2	22.2	25.2	25.2	25.2	22.2	25.2	22.2	23.7	23.7	26.6
75°	13.4	11.8	10.4	14.8	10.4	11.8	13.4	13.4	13.4	13.4	14.8
77.5°	8.9	7.4	10.4	10.4	10.4	7.4	8.9	7.4	8.9	7.4	8.9
80°	4.5	5.9	4.5	7.4	4.5	5.9	4.5	7.4	4.5	5.9	5.9
82.5°	1.5	3.0	3.0	3.0	3.0	3.0	1.5	1.5	3.0	3.0	1.5
85°	0.0	3.0	1.5	1.5	1.5	3.0	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: P245963

CATALOG NUMBER: LD8B50D010 ER8B50827 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2
2.5°	3065.3	3060.9	3062.4	3053.5	3053.5	3050.5	3052.0	3044.6	3041.7	3038.7	3043.1
5°	3109.8	3102.4	3096.4	3083.1	3075.7	3066.9	3062.4	3050.5	3040.2	3031.3	3029.8
7.5°	3145.3	3129.1	3118.7	3100.9	3087.6	3077.2	3062.4	3046.1	3032.8	3020.9	3012.0
10°	3160.2	3143.9	3127.6	3105.3	3090.5	3071.3	3056.4	3035.7	3018.0	3001.7	2991.2
12.5°	3161.6	3140.9	3126.1	3100.9	3081.6	3060.9	3044.6	3020.9	3000.1	2983.9	2967.6
15°	3148.3	3129.1	3111.3	3084.6	3065.3	3046.1	3026.9	3001.7	2982.4	2963.1	2951.3
17.5°	3118.7	3100.9	3080.2	3055.0	3037.2	3019.4	2998.7	2978.0	2955.7	2935.0	2920.1
20°	3080.2	3060.9	3043.1	3018.0	3003.1	2983.9	2964.6	2942.4	2924.6	2903.9	2887.6
22.5°	3022.4	3004.6	2988.3	2973.5	2949.8	2935.0	2921.7	2896.5	2878.7	2859.4	2841.7
25°	2939.4	2921.7	2908.3	2890.5	2880.1	2863.9	2850.5	2828.3	2812.0	2794.2	2779.4
27.5°	2803.1	2792.7	2785.3	2774.9	2766.1	2758.7	2751.3	2733.5	2721.6	2705.4	2690.5
30°	2598.6	2597.2	2592.7	2588.3	2594.2	2594.2	2594.2	2591.3	2580.9	2569.0	2558.6
32.5°	2336.4	2339.4	2345.3	2349.8	2361.6	2375.0	2386.8	2392.7	2392.7	2385.3	2380.9
35°	2023.8	2028.3	2037.2	2049.0	2063.8	2080.1	2106.8	2112.7	2117.1	2117.1	2111.2
37.5°	1699.3	1697.9	1706.8	1717.1	1726.0	1737.9	1757.1	1761.6	1769.0	1766.0	1760.1
40°	1383.8	1376.4	1373.4	1376.4	1386.7	1382.3	1386.7	1383.8	1383.8	1373.4	1373.4
42.5°	1091.9	1083.0	1077.1	1072.7	1072.7	1062.3	1054.9	1047.5	1043.0	1035.6	1034.1
45°	841.6	831.1	823.7	820.8	816.4	803.0	794.1	785.2	774.8	771.9	773.4
47.5°	653.4	643.0	640.0	632.6	625.2	617.8	611.9	601.5	600.0	594.1	600.0
50°	503.7	500.8	496.3	493.3	488.9	483.0	477.1	471.1	468.2	468.2	469.6
52.5°	391.1	392.6	388.2	383.7	380.8	380.8	373.3	371.9	371.9	366.0	371.9
55°	299.3	297.8	299.3	296.3	296.3	291.9	291.9	287.4	287.4	283.0	285.9
57.5°	219.3	222.2	219.3	220.8	223.7	219.3	217.8	213.3	216.3	213.3	214.8
60°	170.4	170.4	170.4	168.9	168.9	167.4	167.4	165.9	165.9	162.9	165.9
62.5°	125.9	127.4	127.4	127.4	128.9	127.4	125.9	127.4	125.9	125.9	127.4
65°	83.0	84.5	84.5	83.0	85.9	83.0	84.5	85.9	87.4	85.9	87.4
67.5°	56.3	56.3	57.8	59.3	57.8	59.3	60.7	59.3	60.7	63.7	60.7
70°	41.5	43.0	43.0	41.5	40.0	41.5	40.0	44.5	44.5	44.5	47.4
72.5°	26.6	26.6	25.2	25.2	25.2	25.2	25.2	29.6	26.6	25.2	28.2
75°	14.8	16.3	16.3	11.8	13.4	16.3	11.8	13.4	17.8	14.8	17.8
77.5°	8.9	8.9	8.9	8.9	8.9	8.9	11.8	10.4	10.4	10.4	11.8
80°	7.4	5.9	5.9	4.5	5.9	5.9	5.9	8.9	7.4	7.4	8.9
82.5°	3.0	3.0	1.5	0.0	3.0	3.0	3.0	3.0	3.0	3.0	5.9
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	3.0	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: P245963

CATALOG NUMBER: LD8B50D010 ER8B50827 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2
2.5°	3031.3	3031.3	3029.8	3026.9	3020.9	3020.9	3019.4	3015.0	3012.0	3010.5	3010.5
5°	3016.4	3010.5	3004.6	2988.3	2988.3	2985.3	2976.5	2970.5	2967.6	2960.1	2957.2
7.5°	3003.1	2985.3	2975.0	2964.6	2951.3	2945.3	2935.0	2930.5	2920.1	2912.8	2908.3
10°	2970.5	2958.7	2945.3	2929.0	2918.7	2906.8	2895.0	2886.1	2872.8	2865.3	2859.4
12.5°	2948.3	2930.5	2918.7	2900.9	2883.1	2872.8	2856.5	2846.1	2832.8	2817.9	2809.0
15°	2927.6	2908.3	2892.0	2872.8	2853.5	2841.7	2822.4	2810.6	2791.3	2776.5	2766.1
17.5°	2896.5	2880.1	2862.4	2838.7	2820.9	2806.1	2785.3	2770.6	2752.7	2733.5	2723.1
20°	2863.9	2844.6	2826.8	2803.1	2785.3	2767.6	2746.8	2730.5	2709.8	2692.0	2680.2
22.5°	2820.9	2798.7	2783.8	2760.1	2739.4	2720.2	2700.9	2681.6	2662.4	2647.5	2634.2
25°	2758.7	2734.9	2718.7	2699.4	2680.2	2665.4	2641.6	2629.8	2610.5	2597.2	2583.8
27.5°	2669.7	2652.0	2637.2	2617.9	2601.6	2589.8	2572.0	2560.2	2543.8	2532.0	2521.6
30°	2539.4	2524.6	2511.3	2492.0	2480.2	2469.8	2453.4	2443.1	2431.2	2417.9	2415.0
32.5°	2364.6	2352.7	2339.4	2326.1	2317.1	2311.2	2297.9	2292.0	2280.1	2272.7	2265.3
35°	2100.8	2090.5	2083.1	2077.2	2074.2	2075.7	2072.7	2078.6	2081.6	2080.1	2081.6
37.5°	1755.7	1749.7	1752.7	1757.1	1772.0	1791.2	1809.0	1835.6	1853.4	1871.2	1887.5
40°	1370.5	1374.9	1386.7	1413.4	1451.9	1494.9	1534.9	1585.3	1635.7	1671.2	1703.8
42.5°	1034.1	1047.5	1077.1	1115.6	1173.4	1237.1	1299.4	1373.4	1434.2	1493.4	1534.9
45°	777.8	795.6	834.1	887.5	951.1	1025.2	1103.8	1186.7	1259.3	1320.1	1366.0
47.5°	606.0	622.3	660.8	717.1	795.6	872.7	954.1	1040.1	1115.6	1174.9	1214.9
50°	478.5	499.3	533.4	592.6	671.2	752.6	837.1	921.5	992.7	1043.0	1078.6
52.5°	376.3	395.6	428.2	490.4	570.4	651.9	730.4	813.4	875.6	924.5	948.2
55°	291.9	309.7	343.7	395.6	471.1	551.2	629.6	700.8	758.6	794.1	816.4
57.5°	222.2	235.6	259.3	311.1	379.3	453.3	520.1	591.2	635.6	660.8	675.6
60°	168.9	179.3	204.5	244.5	306.7	370.4	426.7	480.1	515.6	536.3	551.2
62.5°	127.4	139.3	157.0	191.1	238.5	290.4	337.8	377.8	407.4	420.8	431.1
65°	87.4	96.3	109.6	136.3	176.3	213.3	250.4	280.0	299.3	314.1	320.0
67.5°	65.2	71.1	78.5	99.3	127.4	157.0	182.2	202.9	223.7	229.7	240.0
70°	48.9	53.4	60.7	75.6	91.8	112.6	133.4	145.2	160.0	170.4	173.4
72.5°	31.1	32.6	40.0	48.9	62.2	75.6	88.9	99.3	108.2	114.1	117.0
75°	17.8	26.6	26.6	35.6	44.5	50.4	59.3	66.7	71.1	75.6	75.6
77.5°	11.8	16.3	17.8	22.2	26.6	34.1	41.5	45.9	50.4	51.8	51.8
80°	10.4	11.8	11.8	16.3	19.3	25.2	29.6	31.1	34.1	35.6	38.5
82.5°	4.5	5.9	7.4	11.8	13.4	13.4	17.8	19.3	22.2	23.7	23.7
85°	1.5	3.0	3.0	4.5	7.4	8.9	10.4	11.8	13.4	13.4	14.8
87.5°	1.5	1.5	0.0	1.5	3.0	3.0	5.9	5.9	5.9	8.9	8.9
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: P245963

CATALOG NUMBER: LD8B50D010 ER8B50827 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2	3034.2
2.5°	3007.6	3009.1	3003.1	3001.7	2998.7	3000.1	3003.1
5°	2952.8	2954.2	2948.3	2942.4	2942.4	2940.9	2942.4
7.5°	2900.9	2902.4	2893.5	2890.5	2884.6	2886.1	2886.1
10°	2849.0	2849.0	2835.7	2834.2	2829.8	2828.3	2828.3
12.5°	2798.7	2794.2	2783.8	2777.9	2780.9	2772.0	2772.0
15°	2754.2	2746.8	2733.5	2729.0	2721.6	2718.7	2718.7
17.5°	2708.3	2702.4	2690.5	2681.6	2672.7	2671.3	2672.7
20°	2663.8	2657.9	2643.1	2637.2	2629.8	2629.8	2626.8
22.5°	2619.4	2613.5	2600.2	2595.7	2585.3	2585.3	2586.8
25°	2573.5	2569.0	2554.2	2551.3	2549.8	2543.8	2546.8
27.5°	2511.3	2508.3	2496.4	2492.0	2486.1	2484.6	2487.5
30°	2397.2	2392.7	2383.9	2379.4	2369.0	2370.5	2373.4
32.5°	2254.9	2249.0	2237.1	2232.7	2223.8	2220.9	2222.3
35°	2077.2	2072.7	2062.4	2062.4	2053.5	2050.5	2053.5
37.5°	1896.4	1900.8	1896.4	1900.8	1896.4	1894.9	1896.4
40°	1726.0	1742.3	1745.3	1761.6	1755.7	1764.5	1763.1
42.5°	1563.0	1589.7	1600.1	1613.4	1610.5	1616.4	1620.9
45°	1398.6	1420.8	1431.2	1440.1	1441.6	1444.6	1446.0
47.5°	1243.0	1260.8	1262.3	1272.6	1271.2	1271.2	1275.6
50°	1097.9	1109.7	1112.6	1120.1	1114.1	1111.2	1112.6
52.5°	963.0	974.9	971.9	974.9	967.5	964.5	966.0
55°	825.2	831.1	831.1	831.1	822.3	822.3	822.3
57.5°	684.5	686.0	683.0	684.5	683.0	674.1	672.6
60°	555.6	555.6	554.1	555.6	551.2	546.7	546.7
62.5°	434.1	437.1	443.0	437.1	434.1	437.1	432.6
65°	324.5	330.4	328.9	331.9	330.4	330.4	327.4
67.5°	244.5	245.9	247.4	248.9	248.9	248.9	248.9
70°	179.3	183.7	182.2	182.2	182.2	182.2	191.1
72.5°	120.0	125.9	124.5	127.4	127.4	130.4	127.4
75°	81.5	87.4	84.5	88.9	87.4	84.5	91.8
77.5°	54.8	57.8	59.3	60.7	59.3	57.8	59.3
80°	38.5	41.5	40.0	41.5	41.5	41.5	43.0
82.5°	23.7	28.2	26.6	28.2	26.6	28.2	28.2
85°	16.3	17.8	14.8	17.8	16.3	16.3	19.3
87.5°	10.4	8.9	8.9	10.4	8.9	10.4	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)