

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: P244961

Luminaire Tested: **LD8B50D010 ER8B50830 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244961
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 ER8B50830 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5248.0 lumens
Efficiency: N/A
Efficacy: 99.0 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

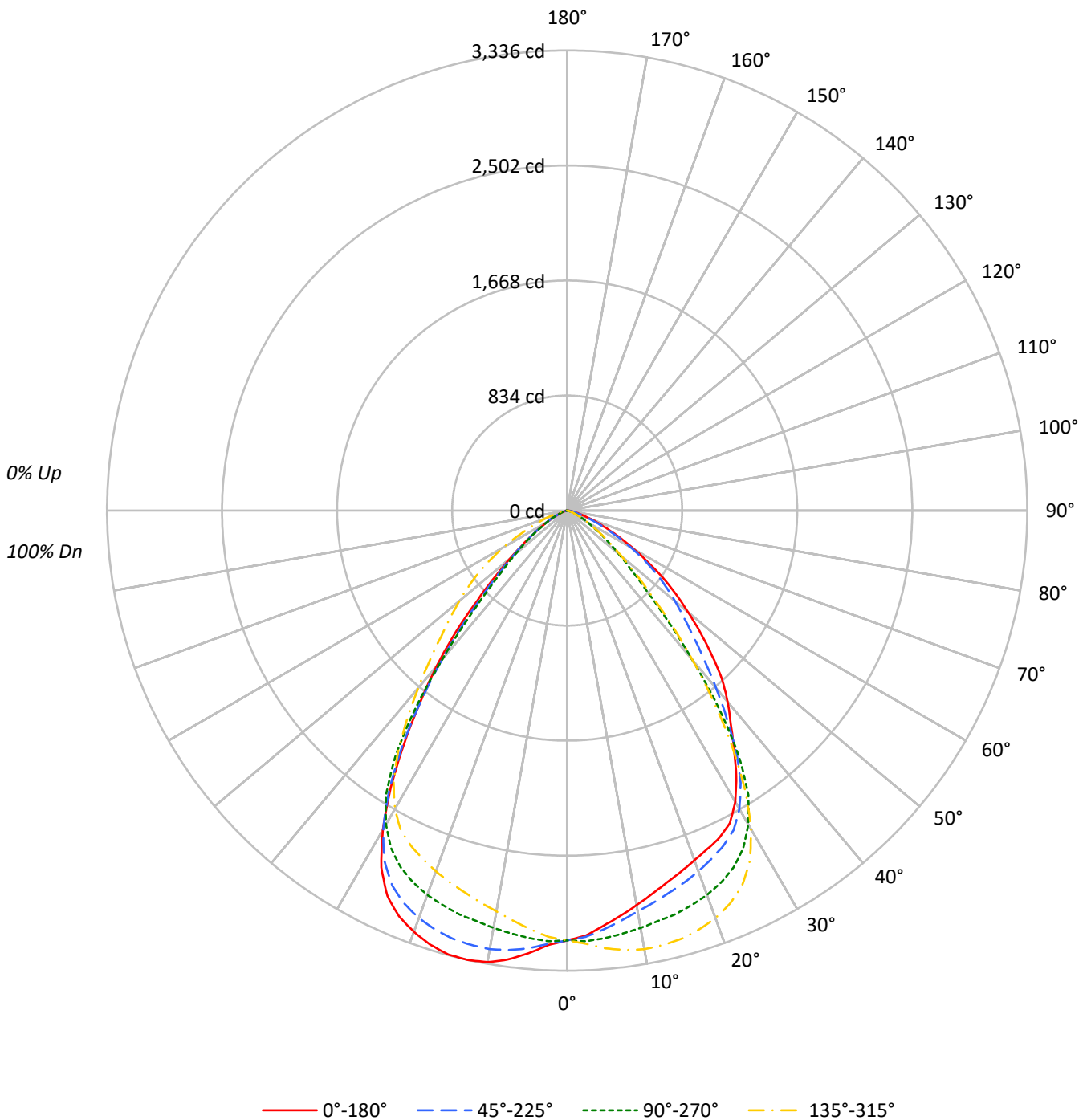
Input Watts (W): 53
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	96074	96074	96074	96074
5°	93522	96298	99737	96298
10°	90933	96172	104081	96172
15°	89116	96743	106358	96743
20°	88509	97297	106630	97297
25°	88976	97101	104917	97101
30°	86777	93546	95227	93546
35°	79373	81605	77427	81605
40°	72872	56766	59278	56766
45°	64751	34630	40068	34630
50°	54804	23132	25689	23132
55°	45391	15784	16682	15784
60°	34623	10509	10602	10509
65°	24531	6545	5998	6545
70°	17689	4391	3976	4391
75°	11235	2180	1811	2180
80°	7831	1616	1350	1616
85°	7005	0	531	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.5	5.7
10°-20°	858.7	16.4
20°-30°	1300.3	24.8
30°-40°	1303.2	24.8
40°-50°	818.4	15.6
50°-60°	436.1	8.3
60°-70°	179.3	3.4
70°-80°	47.4	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°	2455.6	46.8
0°-40°	3758.8	71.6
0°-60°	5013.3	95.5
0°-90°	5248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5248.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3116	3116	3116	3116	3116	
5°	3021	3111	3222	3111	3021	285
15°	2792	3030	3332	3030	2792	790
25°	2615	2854	3084	2854	2615	1199
35°	2108	2168	2057	2168	2108	1321
45°	1485	794	919	794	1485	1142
55°	844	294	310	294	844	753
65°	336	90	82	90	336	349
75°	94	18	15	18	94	107
85°	20	0	2	0	20	22
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°	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6
2.5°	3083.6	3080.6	3079.1	3082.1	3083.6	3089.7	3088.2	3091.2	3091.2	3092.8	3095.8
5°	3021.3	3019.7	3021.3	3021.3	3027.3	3033.4	3031.9	3036.5	3039.5	3047.1	3050.1
7.5°	2963.5	2963.5	2961.9	2968.0	2971.1	2980.2	2978.6	2986.3	2990.8	2998.4	3009.1
10°	2904.1	2904.1	2905.6	2910.2	2911.8	2925.4	2925.4	2936.0	2942.1	2949.8	2963.5
12.5°	2846.3	2846.3	2855.5	2852.4	2858.5	2869.1	2873.7	2884.3	2893.5	2908.7	2922.4
15°	2791.5	2791.5	2794.6	2802.2	2806.7	2820.5	2828.0	2840.2	2850.9	2866.1	2885.9
17.5°	2744.4	2742.9	2744.4	2753.5	2762.7	2774.8	2780.9	2796.1	2806.7	2826.5	2844.8
20°	2697.2	2700.3	2700.3	2707.9	2713.9	2729.2	2735.2	2752.0	2764.2	2782.4	2803.7
22.5°	2656.2	2654.6	2654.6	2665.3	2669.9	2683.5	2689.6	2704.8	2718.5	2733.7	2753.5
25°	2615.1	2612.0	2618.1	2619.6	2622.7	2637.9	2642.4	2653.1	2666.8	2680.5	2700.3
27.5°	2554.2	2551.2	2552.7	2558.8	2563.4	2575.5	2578.6	2589.2	2599.9	2612.0	2628.8
30°	2437.1	2434.0	2432.5	2443.2	2447.8	2456.8	2461.4	2479.7	2482.7	2496.4	2508.6
32.5°	2281.9	2280.4	2283.5	2292.5	2297.1	2309.3	2315.4	2326.0	2333.6	2341.2	2353.4
35°	2108.5	2105.4	2108.5	2117.6	2117.6	2128.3	2132.9	2137.4	2135.9	2137.4	2134.4
37.5°	1947.3	1945.7	1947.3	1951.8	1947.3	1951.8	1947.3	1938.1	1921.4	1903.1	1884.8
40°	1810.3	1811.8	1802.7	1808.8	1792.0	1789.0	1772.3	1749.5	1716.0	1679.5	1627.8
42.5°	1664.3	1659.7	1653.7	1656.7	1643.0	1632.3	1604.9	1576.1	1533.4	1472.6	1410.2
45°	1484.8	1483.3	1480.2	1478.7	1469.6	1458.9	1436.1	1402.6	1355.5	1293.1	1218.5
47.5°	1309.8	1305.3	1305.3	1306.8	1296.1	1294.6	1276.3	1247.5	1206.4	1145.5	1067.9
50°	1142.4	1140.9	1144.0	1150.1	1142.4	1139.4	1127.3	1107.5	1071.0	1019.3	946.2
52.5°	991.9	990.4	993.4	1001.0	997.9	1001.0	988.8	973.6	949.3	899.1	835.2
55°	844.3	844.3	844.3	853.4	853.4	853.4	847.3	838.3	815.4	778.9	719.6
57.5°	690.7	692.2	701.3	702.8	701.3	704.4	702.8	693.7	678.5	652.7	607.0
60°	561.4	561.4	565.9	570.5	568.9	570.5	570.5	565.9	550.7	529.4	492.9
62.5°	444.2	448.8	445.7	448.8	454.8	448.8	445.7	442.7	432.1	418.3	387.9
65°	336.2	339.3	339.3	340.8	337.7	339.3	333.2	328.6	322.5	307.3	287.5
67.5°	255.6	255.6	255.6	255.6	254.0	252.5	251.0	246.5	235.8	229.7	208.4
70°	196.2	187.1	187.1	187.1	187.1	188.7	184.1	178.0	175.0	164.3	149.1
72.5°	130.8	133.9	130.8	130.8	127.8	129.3	123.2	120.2	117.2	111.1	101.9
75°	94.3	86.7	89.7	91.3	86.7	89.7	83.7	77.6	77.6	73.0	68.4
77.5°	60.9	59.4	60.9	62.4	60.9	59.4	56.3	53.2	53.2	51.7	47.2
80°	44.1	42.6	42.6	42.6	41.1	42.6	39.6	39.6	36.5	35.0	31.9
82.5°	28.9	28.9	27.4	28.9	27.4	28.9	24.4	24.4	24.4	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6
2.5°	3100.4	3101.9	3101.9	3108.0	3111.0	3112.5	3112.5	3124.7	3120.1	3123.2	3126.2
5°	3056.3	3065.4	3068.4	3068.4	3085.1	3091.2	3097.3	3111.0	3112.5	3121.6	3132.3
7.5°	3013.6	3024.3	3030.4	3044.1	3054.7	3065.4	3083.6	3092.8	3101.9	3114.1	3127.7
10°	2972.6	2984.8	2996.9	3007.6	3024.3	3038.0	3050.1	3071.4	3082.1	3098.9	3117.1
12.5°	2933.0	2949.8	2960.4	2978.6	2996.9	3009.1	3027.3	3047.1	3063.8	3080.6	3101.9
15°	2898.0	2917.8	2930.0	2949.8	2969.5	2986.3	3006.1	3030.4	3042.6	3062.3	3082.1
17.5°	2860.0	2881.3	2896.5	2914.8	2939.1	2957.3	2974.1	2998.4	3013.6	3034.9	3057.8
20°	2820.5	2841.7	2860.0	2878.3	2902.6	2920.8	2940.6	2965.0	2981.7	3003.0	3021.3
22.5°	2773.3	2793.1	2812.8	2834.1	2858.5	2873.7	2896.5	2917.8	2936.0	2955.8	2974.1
25°	2712.4	2736.8	2752.0	2771.7	2791.5	2808.2	2832.6	2853.9	2869.1	2887.4	2904.1
27.5°	2640.9	2659.2	2671.4	2688.1	2707.9	2723.1	2741.3	2762.7	2777.9	2794.6	2806.7
30°	2519.2	2536.0	2546.6	2558.8	2578.6	2592.3	2607.5	2627.2	2637.9	2650.1	2660.7
32.5°	2359.5	2373.2	2379.3	2388.4	2402.1	2415.8	2428.0	2444.7	2449.3	2456.8	2456.8
35°	2128.3	2131.3	2129.8	2132.9	2138.9	2146.5	2157.2	2167.8	2173.9	2173.9	2169.4
37.5°	1857.5	1839.2	1819.5	1804.2	1799.7	1796.6	1802.7	1807.3	1813.4	1816.4	1808.8
40°	1576.1	1535.0	1490.8	1451.3	1423.9	1411.8	1407.2	1410.2	1410.2	1420.8	1420.8
42.5°	1334.2	1270.2	1204.9	1145.5	1105.9	1075.6	1061.9	1061.9	1063.4	1071.0	1075.6
45°	1133.4	1052.7	976.6	911.3	856.5	816.9	798.7	794.1	792.6	795.6	806.3
47.5°	979.7	896.0	816.9	736.3	678.5	638.9	622.2	616.1	610.0	616.1	617.7
50°	859.5	772.8	689.2	608.5	547.6	512.6	491.4	482.2	480.7	480.7	483.8
52.5°	750.0	669.4	585.7	503.6	439.6	406.2	386.4	381.8	375.8	381.8	381.8
55°	646.5	565.9	483.8	406.2	352.9	318.0	299.7	293.6	290.5	295.1	295.1
57.5°	534.0	465.5	389.5	319.5	266.2	241.9	228.2	220.6	219.0	222.1	219.0
60°	438.1	380.3	314.9	251.0	210.0	184.1	173.4	170.4	167.3	170.4	170.4
62.5°	346.8	298.2	244.9	196.2	161.2	143.0	130.8	130.8	129.3	129.3	130.8
65°	257.1	219.0	181.0	139.9	112.6	98.9	89.7	89.7	88.2	89.7	88.2
67.5°	187.1	161.2	130.8	101.9	80.7	73.0	66.9	62.4	65.4	62.4	60.9
70°	136.9	115.6	94.3	77.6	62.4	54.8	50.2	48.7	45.6	45.6	45.6
72.5°	91.3	77.6	63.9	50.2	41.1	33.4	31.9	28.9	25.9	27.4	30.4
75°	60.9	51.7	45.6	36.5	27.4	27.4	18.3	18.3	15.2	18.3	13.7
77.5°	42.6	35.0	27.4	22.8	18.3	16.7	12.1	12.1	10.6	10.6	10.6
80°	30.4	25.9	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6
2.5°	3133.9	3132.3	3135.4	3135.4	3144.5	3142.9	3147.5	3147.5	3144.5	3146.0	3152.1
5°	3144.5	3149.1	3158.2	3165.8	3179.4	3185.6	3193.2	3200.8	3202.3	3206.9	3211.4
7.5°	3144.5	3159.7	3170.4	3184.0	3202.3	3212.9	3229.7	3243.4	3249.4	3257.0	3266.2
10°	3138.4	3153.6	3173.4	3188.6	3211.4	3228.2	3244.9	3266.2	3275.3	3287.5	3299.7
12.5°	3126.2	3142.9	3164.2	3184.0	3209.9	3225.1	3246.4	3266.2	3279.9	3296.6	3310.3
15°	3108.0	3127.7	3147.5	3167.3	3194.7	3212.9	3232.7	3255.5	3269.2	3287.5	3299.7
17.5°	3079.1	3100.4	3118.6	3136.9	3162.7	3184.0	3202.3	3223.6	3237.3	3252.5	3269.2
20°	3044.1	3063.8	3083.6	3098.9	3124.7	3142.9	3162.7	3182.5	3193.2	3196.2	3222.1
22.5°	3000.0	3013.6	3028.8	3053.2	3068.4	3085.1	3103.4	3121.6	3132.3	3149.1	3158.2
25°	2926.9	2940.6	2957.3	2968.0	2986.3	3000.0	3018.2	3038.0	3044.1	3056.3	3065.4
27.5°	2825.0	2832.6	2840.2	2849.3	2860.0	2867.6	2878.3	2887.4	2893.5	2899.5	2905.6
30°	2663.7	2663.7	2663.7	2657.7	2662.2	2666.8	2668.3	2666.8	2666.8	2665.3	2665.3
32.5°	2450.8	2438.6	2424.9	2412.8	2408.2	2402.1	2399.0	2394.5	2386.9	2382.3	2383.8
35°	2163.2	2135.9	2119.1	2103.9	2091.8	2082.6	2078.1	2073.5	2072.0	2065.9	2059.8
37.5°	1804.2	1784.5	1772.3	1763.2	1752.5	1743.4	1744.9	1746.5	1751.0	1748.0	1749.5
40°	1423.9	1419.3	1423.9	1413.3	1410.2	1413.3	1420.8	1431.5	1437.6	1443.7	1454.3
42.5°	1083.1	1090.7	1101.4	1101.4	1105.9	1112.1	1121.2	1137.9	1147.0	1157.7	1169.9
45°	815.4	824.5	838.3	842.8	845.8	853.4	864.1	877.8	883.8	893.0	903.6
47.5°	628.3	634.4	641.9	649.6	657.2	660.2	670.9	670.9	678.5	684.6	687.6
50°	489.9	495.9	502.0	506.6	509.6	514.2	517.2	521.8	523.3	526.4	527.9
52.5°	383.3	391.0	391.0	394.0	398.6	403.1	401.6	403.1	404.6	404.6	409.2
55°	299.7	299.7	304.3	304.3	307.3	305.8	307.3	307.3	307.3	307.3	308.8
57.5°	223.6	225.2	229.7	226.7	225.2	228.2	225.2	228.2	226.7	229.7	225.2
60°	171.9	171.9	173.4	173.4	175.0	175.0	175.0	173.4	173.4	171.9	171.9
62.5°	129.3	130.8	132.4	130.8	130.8	130.8	129.3	129.3	127.8	126.2	126.2
65°	86.7	85.2	88.2	85.2	86.7	86.7	85.2	86.7	82.2	83.7	82.2
67.5°	62.4	60.9	59.4	60.9	59.4	57.8	57.8	59.4	60.9	56.3	56.3
70°	41.1	42.6	41.1	42.6	44.1	44.1	42.6	41.1	42.6	39.6	41.1
72.5°	25.9	25.9	25.9	25.9	25.9	27.4	27.4	27.4	24.4	24.4	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: P244961

CATALOG NUMBER: LD8B50D010 ER8B50830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6
2.5°	3150.6	3149.1	3150.6	3152.1	3150.6	3149.1	3150.6	3152.1	3146.0	3144.5	3147.5
5°	3217.5	3217.5	3220.5	3222.1	3220.5	3217.5	3217.5	3211.4	3206.9	3202.3	3200.8
7.5°	3275.3	3278.4	3281.4	3282.9	3281.4	3278.4	3275.3	3266.2	3257.0	3249.4	3243.4
10°	3310.3	3314.9	3321.0	3324.0	3321.0	3314.9	3310.3	3299.7	3287.5	3275.3	3266.2
12.5°	3325.5	3330.1	3337.7	3336.2	3337.7	3330.1	3325.5	3310.3	3296.6	3279.9	3266.2
15°	3314.9	3321.0	3328.5	3331.6	3328.5	3321.0	3314.9	3299.7	3287.5	3269.2	3255.5
17.5°	3281.4	3290.5	3295.1	3299.7	3295.1	3290.5	3281.4	3269.2	3252.5	3237.3	3223.6
20°	3235.7	3241.9	3247.9	3249.4	3247.9	3241.9	3235.7	3222.1	3196.2	3193.2	3182.5
22.5°	3170.4	3174.9	3188.6	3184.0	3188.6	3174.9	3170.4	3158.2	3149.1	3132.3	3121.6
25°	3076.0	3080.6	3082.1	3083.6	3082.1	3080.6	3076.0	3065.4	3056.3	3044.1	3038.0
27.5°	2913.3	2913.3	2916.3	2917.8	2916.3	2913.3	2913.3	2905.6	2899.5	2893.5	2887.4
30°	2666.8	2666.8	2666.8	2674.4	2666.8	2666.8	2666.8	2665.3	2665.3	2666.8	2666.8
32.5°	2382.3	2379.3	2376.3	2379.3	2376.3	2379.3	2382.3	2383.8	2382.3	2386.9	2394.5
35°	2059.8	2058.3	2062.9	2056.8	2062.9	2058.3	2059.8	2059.8	2065.9	2072.0	2073.5
37.5°	1751.0	1748.0	1754.0	1748.0	1754.0	1748.0	1751.0	1749.5	1748.0	1751.0	1746.5
40°	1457.4	1460.4	1460.4	1472.6	1460.4	1460.4	1457.4	1454.3	1443.7	1437.6	1431.5
42.5°	1175.9	1185.1	1182.0	1191.2	1182.0	1185.1	1175.9	1169.9	1157.7	1147.0	1137.9
45°	909.7	915.8	915.8	918.8	915.8	915.8	909.7	903.6	893.0	883.8	877.8
47.5°	698.2	698.2	698.2	699.8	698.2	698.2	698.2	687.6	684.6	678.5	670.9
50°	530.9	532.4	534.0	535.5	534.0	532.4	530.9	527.9	526.4	523.3	521.8
52.5°	407.7	409.2	406.2	409.2	406.2	409.2	407.7	409.2	404.6	404.6	403.1
55°	308.8	307.3	308.8	310.3	308.8	307.3	308.8	308.8	307.3	307.3	307.3
57.5°	226.7	223.6	223.6	223.6	223.6	223.6	226.7	225.2	229.7	226.7	228.2
60°	168.9	170.4	170.4	171.9	170.4	170.4	168.9	171.9	171.9	173.4	173.4
62.5°	124.7	129.3	126.2	129.3	126.2	129.3	124.7	126.2	126.2	127.8	129.3
65°	80.7	80.7	80.7	82.2	80.7	80.7	80.7	82.2	83.7	82.2	86.7
67.5°	54.8	56.3	59.4	57.8	59.4	56.3	54.8	56.3	56.3	60.9	59.4
70°	44.1	39.6	39.6	44.1	39.6	39.6	44.1	41.1	39.6	42.6	41.1
72.5°	25.9	22.8	25.9	25.9	25.9	22.8	25.9	22.8	24.4	24.4	27.4
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: P244961

CATALOG NUMBER: LD8B50D010 ER8B50830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6
2.5°	3147.5	3142.9	3144.5	3135.4	3135.4	3132.3	3133.9	3126.2	3123.2	3120.1	3124.7
5°	3193.2	3185.6	3179.4	3165.8	3158.2	3149.1	3144.5	3132.3	3121.6	3112.5	3111.0
7.5°	3229.7	3212.9	3202.3	3184.0	3170.4	3159.7	3144.5	3127.7	3114.1	3101.9	3092.8
10°	3244.9	3228.2	3211.4	3188.6	3173.4	3153.6	3138.4	3117.1	3098.9	3082.1	3071.4
12.5°	3246.4	3225.1	3209.9	3184.0	3164.2	3142.9	3126.2	3101.9	3080.6	3063.8	3047.1
15°	3232.7	3212.9	3194.7	3167.3	3147.5	3127.7	3108.0	3082.1	3062.3	3042.6	3030.4
17.5°	3202.3	3184.0	3162.7	3136.9	3118.6	3100.4	3079.1	3057.8	3034.9	3013.6	2998.4
20°	3162.7	3142.9	3124.7	3098.9	3083.6	3063.8	3044.1	3021.3	3003.0	2981.7	2965.0
22.5°	3103.4	3085.1	3068.4	3053.2	3028.8	3013.6	3000.0	2974.1	2955.8	2936.0	2917.8
25°	3018.2	3000.0	2986.3	2968.0	2957.3	2940.6	2926.9	2904.1	2887.4	2869.1	2853.9
27.5°	2878.3	2867.6	2860.0	2849.3	2840.2	2832.6	2825.0	2806.7	2794.6	2777.9	2762.7
30°	2668.3	2666.8	2662.2	2657.7	2663.7	2663.7	2663.7	2660.7	2650.1	2637.9	2627.2
32.5°	2399.0	2402.1	2408.2	2412.8	2424.9	2438.6	2450.8	2456.8	2456.8	2449.3	2444.7
35°	2078.1	2082.6	2091.8	2103.9	2119.1	2135.9	2163.2	2169.4	2173.9	2173.9	2167.8
37.5°	1744.9	1743.4	1752.5	1763.2	1772.3	1784.5	1804.2	1808.8	1816.4	1813.4	1807.3
40°	1420.8	1413.3	1410.2	1413.3	1423.9	1419.3	1423.9	1420.8	1420.8	1410.2	1410.2
42.5°	1121.2	1112.1	1105.9	1101.4	1101.4	1090.7	1083.1	1075.6	1071.0	1063.4	1061.9
45°	864.1	853.4	845.8	842.8	838.3	824.5	815.4	806.3	795.6	792.6	794.1
47.5°	670.9	660.2	657.2	649.6	641.9	634.4	628.3	617.7	616.1	610.0	616.1
50°	517.2	514.2	509.6	506.6	502.0	495.9	489.9	483.8	480.7	480.7	482.2
52.5°	401.6	403.1	398.6	394.0	391.0	391.0	383.3	381.8	381.8	375.8	381.8
55°	307.3	305.8	307.3	304.3	304.3	299.7	299.7	295.1	295.1	290.5	293.6
57.5°	225.2	228.2	225.2	226.7	229.7	225.2	223.6	219.0	222.1	219.0	220.6
60°	175.0	175.0	175.0	173.4	173.4	171.9	171.9	170.4	170.4	167.3	170.4
62.5°	129.3	130.8	130.8	130.8	132.4	130.8	129.3	130.8	129.3	129.3	130.8
65°	85.2	86.7	86.7	85.2	88.2	85.2	86.7	88.2	89.7	88.2	89.7
67.5°	57.8	57.8	59.4	60.9	59.4	60.9	62.4	60.9	62.4	65.4	62.4
70°	42.6	44.1	44.1	42.6	41.1	42.6	41.1	45.6	45.6	45.6	48.7
72.5°	27.4	27.4	25.9	25.9	25.9	25.9	25.9	30.4	27.4	25.9	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: P244961

CATALOG NUMBER: LD8B50D010 ER8B50830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6
2.5°	3112.5	3112.5	3111.0	3108.0	3101.9	3101.9	3100.4	3095.8	3092.8	3091.2	3091.2
5°	3097.3	3091.2	3085.1	3068.4	3068.4	3065.4	3056.3	3050.1	3047.1	3039.5	3036.5
7.5°	3083.6	3065.4	3054.7	3044.1	3030.4	3024.3	3013.6	3009.1	2998.4	2990.8	2986.3
10°	3050.1	3038.0	3024.3	3007.6	2996.9	2984.8	2972.6	2963.5	2949.8	2942.1	2936.0
12.5°	3027.3	3009.1	2996.9	2978.6	2960.4	2949.8	2933.0	2922.4	2908.7	2893.5	2884.3
15°	3006.1	2986.3	2969.5	2949.8	2930.0	2917.8	2898.0	2885.9	2866.1	2850.9	2840.2
17.5°	2974.1	2957.3	2939.1	2914.8	2896.5	2881.3	2860.0	2844.8	2826.5	2806.7	2796.1
20°	2940.6	2920.8	2902.6	2878.3	2860.0	2841.7	2820.5	2803.7	2782.4	2764.2	2752.0
22.5°	2896.5	2873.7	2858.5	2834.1	2812.8	2793.1	2773.3	2753.5	2733.7	2718.5	2704.8
25°	2832.6	2808.2	2791.5	2771.7	2752.0	2736.8	2712.4	2700.3	2680.5	2666.8	2653.1
27.5°	2741.3	2723.1	2707.9	2688.1	2671.4	2659.2	2640.9	2628.8	2612.0	2599.9	2589.2
30°	2607.5	2592.3	2578.6	2558.8	2546.6	2536.0	2519.2	2508.6	2496.4	2482.7	2479.7
32.5°	2428.0	2415.8	2402.1	2388.4	2379.3	2373.2	2359.5	2353.4	2341.2	2333.6	2326.0
35°	2157.2	2146.5	2138.9	2132.9	2129.8	2131.3	2128.3	2134.4	2137.4	2135.9	2137.4
37.5°	1802.7	1796.6	1799.7	1804.2	1819.5	1839.2	1857.5	1884.8	1903.1	1921.4	1938.1
40°	1407.2	1411.8	1423.9	1451.3	1490.8	1535.0	1576.1	1627.8	1679.5	1716.0	1749.5
42.5°	1061.9	1075.6	1105.9	1145.5	1204.9	1270.2	1334.2	1410.2	1472.6	1533.4	1576.1
45°	798.7	816.9	856.5	911.3	976.6	1052.7	1133.4	1218.5	1293.1	1355.5	1402.6
47.5°	622.2	638.9	678.5	736.3	816.9	896.0	979.7	1067.9	1145.5	1206.4	1247.5
50°	491.4	512.6	547.6	608.5	689.2	772.8	859.5	946.2	1019.3	1071.0	1107.5
52.5°	386.4	406.2	439.6	503.6	585.7	669.4	750.0	835.2	899.1	949.3	973.6
55°	299.7	318.0	352.9	406.2	483.8	565.9	646.5	719.6	778.9	815.4	838.3
57.5°	228.2	241.9	266.2	319.5	389.5	465.5	534.0	607.0	652.7	678.5	693.7
60°	173.4	184.1	210.0	251.0	314.9	380.3	438.1	492.9	529.4	550.7	565.9
62.5°	130.8	143.0	161.2	196.2	244.9	298.2	346.8	387.9	418.3	432.1	442.7
65°	89.7	98.9	112.6	139.9	181.0	219.0	257.1	287.5	307.3	322.5	328.6
67.5°	66.9	73.0	80.7	101.9	130.8	161.2	187.1	208.4	229.7	235.8	246.5
70°	50.2	54.8	62.4	77.6	94.3	115.6	136.9	149.1	164.3	175.0	178.0
72.5°	31.9	33.4	41.1	50.2	63.9	77.6	91.3	101.9	111.1	117.2	120.2
75°	18.3	27.4	27.4	36.5	45.6	51.7	60.9	68.4	73.0	77.6	77.6
77.5°	12.1	16.7	18.3	22.8	27.4	35.0	42.6	47.2	51.7	53.2	53.2
80°	10.6	12.1	12.1	16.7	19.8	25.9	30.4	31.9	35.0	36.5	39.6
82.5°	4.6	6.1	7.6	12.1	13.7	13.7	18.3	19.8	22.8	24.4	24.4
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: P244961

CATALOG NUMBER: LD8B50D010 ER8B50830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6	3115.6
2.5°	3088.2	3089.7	3083.6	3082.1	3079.1	3080.6	3083.6
5°	3031.9	3033.4	3027.3	3021.3	3021.3	3019.7	3021.3
7.5°	2978.6	2980.2	2971.1	2968.0	2961.9	2963.5	2963.5
10°	2925.4	2925.4	2911.8	2910.2	2905.6	2904.1	2904.1
12.5°	2873.7	2869.1	2858.5	2852.4	2855.5	2846.3	2846.3
15°	2828.0	2820.5	2806.7	2802.2	2794.6	2791.5	2791.5
17.5°	2780.9	2774.8	2762.7	2753.5	2744.4	2742.9	2744.4
20°	2735.2	2729.2	2713.9	2707.9	2700.3	2700.3	2697.2
22.5°	2689.6	2683.5	2669.9	2665.3	2654.6	2654.6	2656.2
25°	2642.4	2637.9	2622.7	2619.6	2618.1	2612.0	2615.1
27.5°	2578.6	2575.5	2563.4	2558.8	2552.7	2551.2	2554.2
30°	2461.4	2456.8	2447.8	2443.2	2432.5	2434.0	2437.1
32.5°	2315.4	2309.3	2297.1	2292.5	2283.5	2280.4	2281.9
35°	2132.9	2128.3	2117.6	2117.6	2108.5	2105.4	2108.5
37.5°	1947.3	1951.8	1947.3	1951.8	1947.3	1945.7	1947.3
40°	1772.3	1789.0	1792.0	1808.8	1802.7	1811.8	1810.3
42.5°	1604.9	1632.3	1643.0	1656.7	1653.7	1659.7	1664.3
45°	1436.1	1458.9	1469.6	1478.7	1480.2	1483.3	1484.8
47.5°	1276.3	1294.6	1296.1	1306.8	1305.3	1305.3	1309.8
50°	1127.3	1139.4	1142.4	1150.1	1144.0	1140.9	1142.4
52.5°	988.8	1001.0	997.9	1001.0	993.4	990.4	991.9
55°	847.3	853.4	853.4	853.4	844.3	844.3	844.3
57.5°	702.8	704.4	701.3	702.8	701.3	692.2	690.7
60°	570.5	570.5	568.9	570.5	565.9	561.4	561.4
62.5°	445.7	448.8	454.8	448.8	445.7	448.8	444.2
65°	333.2	339.3	337.7	340.8	339.3	339.3	336.2
67.5°	251.0	252.5	254.0	255.6	255.6	255.6	255.6
70°	184.1	188.7	187.1	187.1	187.1	187.1	196.2
72.5°	123.2	129.3	127.8	130.8	130.8	133.9	130.8
75°	83.7	89.7	86.7	91.3	89.7	86.7	94.3
77.5°	56.3	59.4	60.9	62.4	60.9	59.4	60.9
80°	39.6	42.6	41.1	42.6	42.6	42.6	44.1
82.5°	24.4	28.9	27.4	28.9	27.4	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)