

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: P244973

Luminaire Tested: **LD8B50D010 ER8B50840 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244973  
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 ER8B50840 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5422.0 lumens  
Efficiency: N/A  
Efficacy: 102.3 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

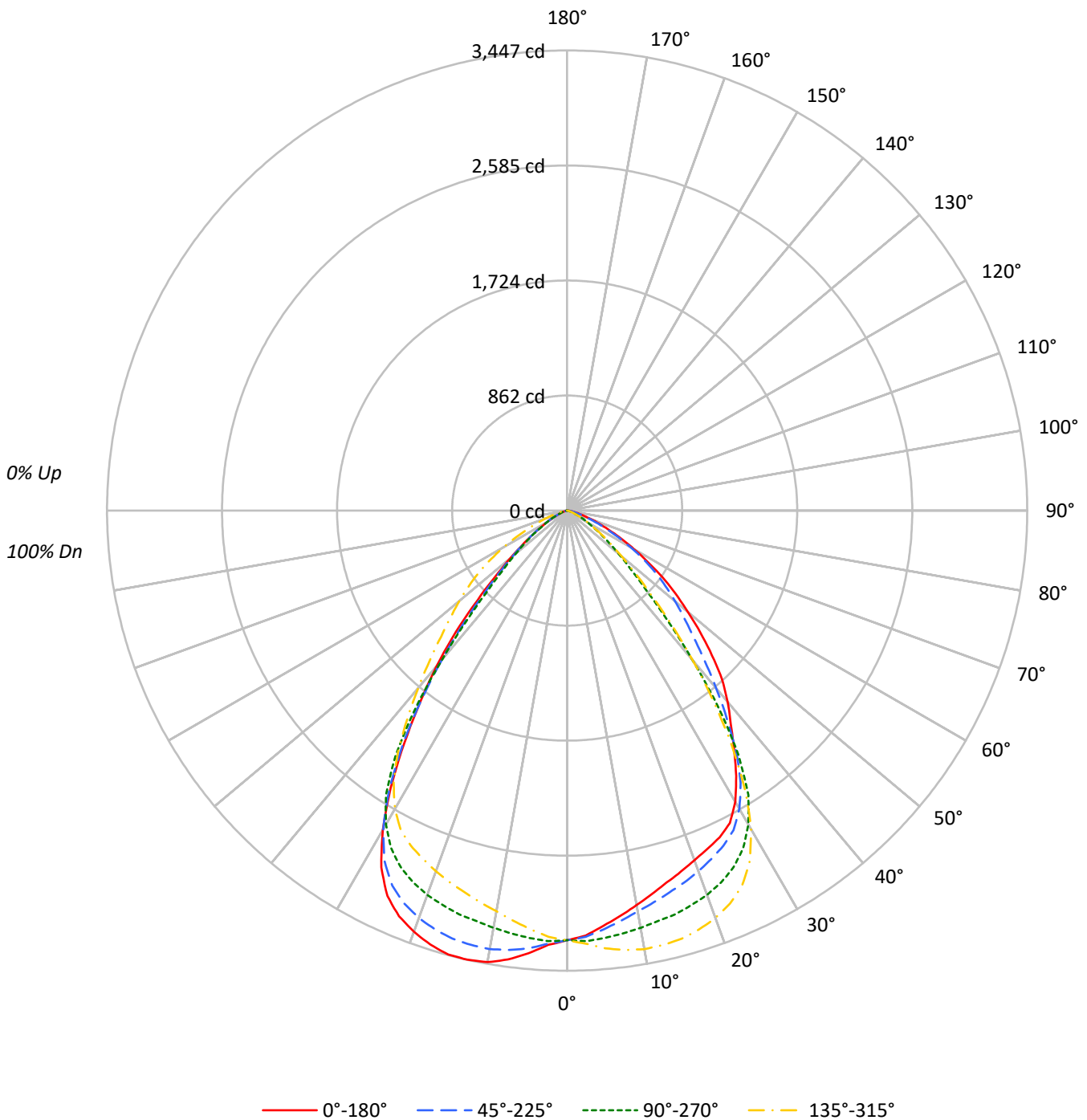
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P244973

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0WMH

### Luminous Intensity Polar Plot





TEST NUMBER: P244973

CATALOG NUMBER: LD8B50D010 ER8B50840 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°	99259	99259	99259	99259
5°	96620	99490	103043	99490
10°	93949	99362	107532	99362
15°	92072	99951	109886	99951
20°	91446	100523	110168	100523
25°	91926	100320	108397	100320
30°	89654	96647	98385	96647
35°	82004	84312	79994	84312
40°	75287	58650	61246	58650
45°	66896	35777	41398	35777
50°	56622	23900	26543	23900
55°	46896	16306	17236	16306
60°	35770	10854	10953	10854
65°	25341	6764	6195	6764
70°	18275	4535	4111	4535
75°	11604	2252	1871	2252
80°	8098	1669	1385	1669
85°	7218	0	566	0



TEST NUMBER: P244973

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0WMH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.4	5.7
10°-20°	887.2	16.4
20°-30°	1343.4	24.8
30°-40°	1346.4	24.8
40°-50°	845.5	15.6
50°-60°	450.6	8.3
60°-70°	185.3	3.4
70°-80°	48.9	0.9
80°-90°	8.3	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°	2537.0	46.8
0°-40°	3883.4	71.6
0°-60°	5179.5	95.5
0°-90°	5422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5422.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3219	3219	3219	3219	3219	
5°	3121	3214	3329	3214	3121	294
15°	2884	3131	3442	3131	2884	816
25°	2702	2948	3186	2948	2702	1239
35°	2178	2240	2125	2240	2178	1365
45°	1534	820	949	820	1534	1180
55°	872	303	321	303	872	778
65°	347	93	85	93	347	360
75°	97	19	16	19	97	110
85°	20	0	2	0	20	22
90°	0	0	0	0	0	



TEST NUMBER: P244973

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0WMH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9
2.5°	3185.9	3182.7	3181.2	3184.3	3185.9	3192.2	3190.6	3193.7	3193.7	3195.3	3198.4
5°	3121.4	3119.8	3121.4	3121.4	3127.7	3134.0	3132.4	3137.2	3140.3	3148.2	3151.3
7.5°	3061.7	3061.7	3060.1	3066.4	3069.6	3079.0	3077.4	3085.3	3090.0	3097.8	3108.8
10°	3000.4	3000.4	3002.0	3006.7	3008.3	3022.4	3022.4	3033.4	3039.7	3047.6	3061.7
12.5°	2940.7	2940.7	2950.1	2947.0	2953.2	2964.2	2969.0	2980.0	2989.4	3005.1	3019.3
15°	2884.1	2884.1	2887.3	2895.1	2899.8	2914.0	2921.8	2934.4	2945.4	2961.1	2981.6
17.5°	2835.4	2833.8	2835.4	2844.8	2854.3	2866.8	2873.1	2888.8	2899.8	2920.2	2939.1
20°	2786.7	2789.8	2789.8	2797.7	2803.9	2819.6	2825.9	2843.3	2855.8	2874.6	2896.7
22.5°	2744.2	2742.7	2742.7	2753.7	2758.4	2772.5	2778.8	2794.5	2808.7	2824.4	2844.8
25°	2701.8	2698.6	2704.9	2706.5	2709.6	2725.3	2730.0	2741.0	2755.2	2769.4	2789.8
27.5°	2638.9	2635.8	2637.3	2643.6	2648.3	2660.9	2664.1	2675.1	2686.1	2698.6	2715.9
30°	2517.9	2514.8	2513.2	2524.2	2528.9	2538.3	2543.0	2561.9	2565.0	2579.2	2591.7
32.5°	2357.5	2356.0	2359.2	2368.5	2373.3	2385.9	2392.2	2403.2	2411.0	2418.9	2431.4
35°	2178.4	2175.2	2178.4	2187.9	2187.9	2198.9	2203.6	2208.2	2206.7	2208.2	2205.1
37.5°	2011.8	2010.2	2011.8	2016.5	2011.8	2016.5	2011.8	2002.4	1985.1	1966.2	1947.3
40°	1870.3	1871.9	1862.5	1868.8	1851.5	1848.3	1831.1	1807.5	1772.9	1735.2	1681.8
42.5°	1719.5	1714.8	1708.5	1711.6	1697.5	1686.4	1658.1	1628.3	1584.3	1521.5	1457.0
45°	1534.0	1532.5	1529.3	1527.7	1518.3	1507.3	1483.7	1449.1	1400.4	1336.0	1258.9
47.5°	1353.3	1348.5	1348.5	1350.1	1339.1	1337.5	1318.6	1288.8	1246.4	1183.5	1103.3
50°	1180.3	1178.8	1181.9	1188.2	1180.3	1177.2	1164.7	1144.2	1106.5	1053.1	977.6
52.5°	1024.7	1023.2	1026.4	1034.2	1031.0	1034.2	1021.6	1005.9	980.7	928.9	862.9
55°	872.3	872.3	872.3	881.7	881.7	881.7	875.4	866.0	842.4	804.7	743.5
57.5°	713.6	715.1	724.6	726.1	724.6	727.7	726.1	716.7	701.0	674.3	627.1
60°	580.0	580.0	584.7	589.4	587.8	589.4	589.4	584.7	569.0	547.0	509.3
62.5°	458.9	463.7	460.5	463.7	469.9	463.7	460.5	457.4	446.4	432.2	400.8
65°	347.3	350.5	350.5	352.1	348.9	350.5	344.2	339.5	333.2	317.5	297.1
67.5°	264.1	264.1	264.1	264.1	262.5	260.9	259.4	254.6	243.6	237.4	215.3
70°	202.7	193.3	193.3	193.3	193.3	194.9	190.2	183.9	180.8	169.8	154.0
72.5°	135.1	138.3	135.1	135.1	132.0	133.6	127.3	124.1	121.0	114.8	105.3
75°	97.4	89.6	92.7	94.3	89.6	92.7	86.4	80.2	80.2	75.4	70.7
77.5°	62.9	61.3	62.9	64.4	62.9	61.3	58.2	55.0	55.0	53.4	48.7
80°	45.6	44.0	44.0	44.0	42.4	44.0	40.9	40.9	37.7	36.2	33.0
82.5°	29.9	29.9	28.3	29.9	28.3	29.9	25.2	25.2	25.2	23.5	20.4
85°	20.4	17.3	17.3	18.9	15.7	18.9	17.3	15.7	14.2	14.2	12.6
87.5°	9.4	11.0	9.4	11.0	9.4	9.4	11.0	9.4	9.4	6.3	6.3
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: P244973

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9
2.5°	3203.1	3204.7	3204.7	3211.0	3214.1	3215.7	3215.7	3228.3	3223.6	3226.8	3229.9
5°	3157.6	3167.0	3170.2	3170.2	3187.4	3193.7	3200.0	3214.1	3215.7	3225.1	3236.1
7.5°	3113.5	3124.5	3130.9	3145.0	3156.0	3167.0	3185.9	3195.3	3204.7	3217.3	3231.4
10°	3071.1	3083.7	3096.3	3107.3	3124.5	3138.7	3151.3	3173.3	3184.3	3201.6	3220.4
12.5°	3030.3	3047.6	3058.6	3077.4	3096.3	3108.8	3127.7	3148.2	3165.4	3182.7	3204.7
15°	2994.1	3014.6	3027.1	3047.6	3068.0	3085.3	3105.7	3130.9	3143.4	3163.9	3184.3
17.5°	2954.8	2976.9	2992.6	3011.4	3036.6	3055.4	3072.7	3097.8	3113.5	3135.5	3159.2
20°	2914.0	2936.0	2954.8	2973.7	2998.8	3017.7	3038.1	3063.3	3080.6	3102.6	3121.4
22.5°	2865.3	2885.7	2906.1	2928.1	2953.2	2969.0	2992.6	3014.6	3033.4	3053.8	3072.7
25°	2802.4	2827.5	2843.3	2863.6	2884.1	2901.4	2926.5	2948.5	2964.2	2983.1	3000.4
27.5°	2728.5	2747.4	2759.9	2777.2	2797.7	2813.4	2832.2	2854.3	2870.0	2887.3	2899.8
30°	2602.7	2620.1	2631.1	2643.6	2664.1	2678.2	2693.9	2714.3	2725.3	2737.9	2748.9
32.5°	2437.7	2451.9	2458.1	2467.6	2481.8	2495.9	2508.5	2525.7	2530.5	2538.3	2538.3
35°	2198.9	2202.0	2200.4	2203.6	2209.9	2217.7	2228.7	2239.7	2246.0	2246.0	2241.3
37.5°	1919.1	1900.2	1879.8	1864.1	1859.3	1856.2	1862.5	1867.2	1873.5	1876.6	1868.8
40°	1628.3	1585.9	1540.3	1499.4	1471.1	1458.6	1453.8	1457.0	1457.0	1468.0	1468.0
42.5°	1378.4	1312.4	1244.8	1183.5	1142.6	1111.2	1097.1	1097.1	1098.6	1106.5	1111.2
45°	1170.9	1087.6	1009.0	941.5	884.9	844.0	825.2	820.4	818.9	822.0	833.0
47.5°	1012.2	925.8	844.0	760.7	701.0	660.1	642.9	636.5	630.2	636.5	638.1
50°	888.0	798.4	712.0	628.7	565.8	529.6	507.6	498.2	496.6	496.6	499.8
52.5°	774.8	691.6	605.1	520.3	454.2	419.7	399.2	394.5	388.2	394.5	394.5
55°	668.0	584.7	499.8	419.7	364.6	328.5	309.6	303.3	300.2	304.9	304.9
57.5°	551.7	480.9	402.4	330.1	275.1	249.9	235.7	227.9	226.3	229.5	226.3
60°	452.7	392.9	325.3	259.4	216.9	190.2	179.2	176.0	172.9	176.0	176.0
62.5°	358.3	308.1	253.0	202.7	166.6	147.8	135.1	135.1	133.6	133.6	135.1
65°	265.6	226.3	187.0	144.6	116.3	102.2	92.7	92.7	91.2	92.7	91.2
67.5°	193.3	166.6	135.1	105.3	83.3	75.4	69.2	64.4	67.6	64.4	62.9
70°	141.5	119.4	97.4	80.2	64.4	56.6	51.9	50.3	47.2	47.2	47.2
72.5°	94.3	80.2	66.0	51.9	42.4	34.5	33.0	29.9	26.7	28.3	31.4
75°	62.9	53.4	47.2	37.7	28.3	28.3	18.9	18.9	15.7	18.9	14.2
77.5°	44.0	36.2	28.3	23.5	18.9	17.3	12.6	12.6	11.0	11.0	11.0
80°	31.4	26.7	20.4	17.3	12.6	12.6	11.0	9.4	7.8	7.8	9.4
82.5°	18.9	14.2	14.2	12.6	7.8	6.3	4.7	6.3	3.2	3.2	3.2
85°	11.0	9.4	7.8	4.7	3.2	3.2	1.6	0.0	1.6	1.6	0.0
87.5°	6.3	3.2	3.2	1.6	0.0	1.6	1.6	0.0	0.0	0.0	3.2
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: P244973

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9
2.5°	3237.8	3236.1	3239.3	3239.3	3248.8	3247.1	3251.9	3251.9	3248.8	3250.3	3256.6
5°	3248.8	3253.5	3262.9	3270.8	3284.9	3291.2	3299.0	3306.9	3308.5	3313.2	3317.9
7.5°	3248.8	3264.5	3275.5	3289.6	3308.5	3319.5	3336.7	3350.9	3357.2	3365.0	3374.5
10°	3242.4	3258.1	3278.6	3294.3	3317.9	3335.2	3352.5	3374.5	3383.9	3396.5	3409.1
12.5°	3229.9	3247.1	3269.1	3289.6	3316.3	3332.0	3354.0	3374.5	3388.6	3405.9	3420.1
15°	3211.0	3231.4	3251.9	3272.3	3300.6	3319.5	3339.9	3363.5	3377.6	3396.5	3409.1
17.5°	3181.2	3203.1	3222.0	3240.9	3267.6	3289.6	3308.5	3330.5	3344.6	3360.4	3377.6
20°	3145.0	3165.4	3185.9	3201.6	3228.3	3247.1	3267.6	3288.0	3299.0	3302.2	3328.9
22.5°	3099.4	3113.5	3129.3	3154.4	3170.2	3187.4	3206.3	3225.1	3236.1	3253.5	3262.9
25°	3023.9	3038.1	3055.4	3066.4	3085.3	3099.4	3118.3	3138.7	3145.0	3157.6	3167.0
27.5°	2918.7	2926.5	2934.4	2943.8	2954.8	2962.7	2973.7	2983.1	2989.4	2995.7	3002.0
30°	2752.0	2752.0	2752.0	2745.8	2750.5	2755.2	2756.8	2755.2	2755.2	2753.7	2753.7
32.5°	2532.0	2519.5	2505.3	2492.8	2488.0	2481.8	2478.6	2473.9	2466.0	2461.3	2462.9
35°	2235.0	2206.7	2189.4	2173.7	2161.1	2151.7	2147.0	2142.2	2140.7	2134.4	2128.1
37.5°	1864.1	1843.6	1831.1	1821.6	1810.6	1801.2	1802.7	1804.4	1809.0	1805.9	1807.5
40°	1471.1	1466.4	1471.1	1460.1	1457.0	1460.1	1468.0	1479.0	1485.3	1491.6	1502.6
42.5°	1119.1	1126.9	1138.0	1138.0	1142.6	1148.9	1158.3	1175.7	1185.0	1196.0	1208.7
45°	842.4	851.9	866.0	870.7	873.9	881.7	892.8	906.9	913.1	922.6	933.6
47.5°	649.1	655.4	663.2	671.1	679.0	682.1	693.1	693.1	701.0	707.3	710.4
50°	506.1	512.4	518.6	523.4	526.5	531.3	534.4	539.1	540.6	543.8	545.4
52.5°	396.1	403.9	403.9	407.0	411.8	416.5	414.9	416.5	418.0	418.0	422.8
55°	309.6	309.6	314.3	314.3	317.5	315.9	317.5	317.5	317.5	317.5	319.1
57.5°	231.0	232.6	237.4	234.2	232.6	235.7	232.6	235.7	234.2	237.4	232.6
60°	177.6	177.6	179.2	179.2	180.8	180.8	180.8	179.2	179.2	177.6	177.6
62.5°	133.6	135.1	136.8	135.1	135.1	135.1	133.6	133.6	132.0	130.4	130.4
65°	89.6	88.0	91.2	88.0	89.6	89.6	88.0	89.6	84.9	86.4	84.9
67.5°	64.4	62.9	61.3	62.9	61.3	59.7	59.7	61.3	62.9	58.2	58.2
70°	42.4	44.0	42.4	44.0	45.6	45.6	44.0	42.4	44.0	40.9	42.4
72.5°	26.7	26.7	26.7	26.7	26.7	28.3	28.3	28.3	25.2	25.2	23.5
75°	12.6	17.3	14.2	12.6	17.3	17.3	15.7	15.7	14.2	14.2	14.2
77.5°	12.6	9.4	9.4	9.4	9.4	9.4	9.4	9.4	7.8	9.4	7.8
80°	6.3	6.3	6.3	4.7	6.3	6.3	7.8	6.3	6.3	4.7	7.8
82.5°	3.2	3.2	3.2	0.0	1.6	3.2	3.2	1.6	3.2	3.2	1.6
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: P244973

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9
2.5°	3255.0	3253.5	3255.0	3256.6	3255.0	3253.5	3255.0	3256.6	3250.3	3248.8	3251.9
5°	3324.2	3324.2	3327.3	3328.9	3327.3	3324.2	3324.2	3317.9	3313.2	3308.5	3306.9
7.5°	3383.9	3387.1	3390.2	3391.7	3390.2	3387.1	3383.9	3374.5	3365.0	3357.2	3350.9
10°	3420.1	3424.8	3431.1	3434.2	3431.1	3424.8	3420.1	3409.1	3396.5	3383.9	3374.5
12.5°	3435.8	3440.5	3448.3	3446.8	3448.3	3440.5	3435.8	3420.1	3405.9	3388.6	3374.5
15°	3424.8	3431.1	3438.9	3442.1	3438.9	3431.1	3424.8	3409.1	3396.5	3377.6	3363.5
17.5°	3390.2	3399.6	3404.3	3409.1	3404.3	3399.6	3390.2	3377.6	3360.4	3344.6	3330.5
20°	3343.0	3349.4	3355.6	3357.2	3355.6	3349.4	3343.0	3328.9	3302.2	3299.0	3288.0
22.5°	3275.5	3280.2	3294.3	3289.6	3294.3	3280.2	3275.5	3262.9	3253.5	3236.1	3225.1
25°	3178.0	3182.7	3184.3	3185.9	3184.3	3182.7	3178.0	3167.0	3157.6	3145.0	3138.7
27.5°	3009.8	3009.8	3013.0	3014.6	3013.0	3009.8	3009.8	3002.0	2995.7	2989.4	2983.1
30°	2755.2	2755.2	2755.2	2763.1	2755.2	2755.2	2755.2	2753.7	2753.7	2755.2	2755.2
32.5°	2461.3	2458.1	2455.0	2458.1	2455.0	2458.1	2461.3	2462.9	2461.3	2466.0	2473.9
35°	2128.1	2126.5	2131.2	2125.0	2131.2	2126.5	2128.1	2128.1	2134.4	2140.7	2142.2
37.5°	1809.0	1805.9	1812.2	1805.9	1812.2	1805.9	1809.0	1807.5	1805.9	1809.0	1804.4
40°	1505.7	1508.8	1508.8	1521.5	1508.8	1508.8	1505.7	1502.6	1491.6	1485.3	1479.0
42.5°	1214.9	1224.4	1221.2	1230.7	1221.2	1224.4	1214.9	1208.7	1196.0	1185.0	1175.7
45°	939.9	946.2	946.2	949.3	946.2	946.2	939.9	933.6	922.6	913.1	906.9
47.5°	721.4	721.4	721.4	723.0	721.4	721.4	721.4	710.4	707.3	701.0	693.1
50°	548.5	550.1	551.7	553.3	551.7	550.1	548.5	545.4	543.8	540.6	539.1
52.5°	421.2	422.8	419.7	422.8	419.7	422.8	421.2	422.8	418.0	418.0	416.5
55°	319.1	317.5	319.1	320.6	319.1	317.5	319.1	319.1	317.5	317.5	317.5
57.5°	234.2	231.0	231.0	231.0	231.0	231.0	234.2	232.6	237.4	234.2	235.7
60°	174.5	176.0	176.0	177.6	176.0	176.0	174.5	177.6	177.6	179.2	179.2
62.5°	128.9	133.6	130.4	133.6	130.4	133.6	128.9	130.4	130.4	132.0	133.6
65°	83.3	83.3	83.3	84.9	83.3	83.3	83.3	84.9	86.4	84.9	89.6
67.5°	56.6	58.2	61.3	59.7	61.3	58.2	56.6	58.2	58.2	62.9	61.3
70°	45.6	40.9	40.9	45.6	40.9	40.9	45.6	42.4	40.9	44.0	42.4
72.5°	26.7	23.5	26.7	26.7	26.7	23.5	26.7	23.5	25.2	25.2	28.3
75°	14.2	12.6	11.0	15.7	11.0	12.6	14.2	14.2	14.2	14.2	15.7
77.5°	9.4	7.8	11.0	11.0	11.0	7.8	9.4	7.8	9.4	7.8	9.4
80°	4.7	6.3	4.7	7.8	4.7	6.3	4.7	7.8	4.7	6.3	6.3
82.5°	1.6	3.2	3.2	3.2	3.2	3.2	1.6	1.6	3.2	3.2	1.6
85°	0.0	3.2	1.6	1.6	1.6	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.0	0.0	1.6	0.0	0.0	1.6	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: P244973

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9
2.5°	3251.9	3247.1	3248.8	3239.3	3239.3	3236.1	3237.8	3229.9	3226.8	3223.6	3228.3
5°	3299.0	3291.2	3284.9	3270.8	3262.9	3253.5	3248.8	3236.1	3225.1	3215.7	3214.1
7.5°	3336.7	3319.5	3308.5	3289.6	3275.5	3264.5	3248.8	3231.4	3217.3	3204.7	3195.3
10°	3352.5	3335.2	3317.9	3294.3	3278.6	3258.1	3242.4	3220.4	3201.6	3184.3	3173.3
12.5°	3354.0	3332.0	3316.3	3289.6	3269.1	3247.1	3229.9	3204.7	3182.7	3165.4	3148.2
15°	3339.9	3319.5	3300.6	3272.3	3251.9	3231.4	3211.0	3184.3	3163.9	3143.4	3130.9
17.5°	3308.5	3289.6	3267.6	3240.9	3222.0	3203.1	3181.2	3159.2	3135.5	3113.5	3097.8
20°	3267.6	3247.1	3228.3	3201.6	3185.9	3165.4	3145.0	3121.4	3102.6	3080.6	3063.3
22.5°	3206.3	3187.4	3170.2	3154.4	3129.3	3113.5	3099.4	3072.7	3053.8	3033.4	3014.6
25°	3118.3	3099.4	3085.3	3066.4	3055.4	3038.1	3023.9	3000.4	2983.1	2964.2	2948.5
27.5°	2973.7	2962.7	2954.8	2943.8	2934.4	2926.5	2918.7	2899.8	2887.3	2870.0	2854.3
30°	2756.8	2755.2	2750.5	2745.8	2752.0	2752.0	2752.0	2748.9	2737.9	2725.3	2714.3
32.5°	2478.6	2481.8	2488.0	2492.8	2505.3	2519.5	2532.0	2538.3	2538.3	2530.5	2525.7
35°	2147.0	2151.7	2161.1	2173.7	2189.4	2206.7	2235.0	2241.3	2246.0	2246.0	2239.7
37.5°	1802.7	1801.2	1810.6	1821.6	1831.1	1843.6	1864.1	1868.8	1876.6	1873.5	1867.2
40°	1468.0	1460.1	1457.0	1460.1	1471.1	1466.4	1471.1	1468.0	1468.0	1457.0	1457.0
42.5°	1158.3	1148.9	1142.6	1138.0	1138.0	1126.9	1119.1	1111.2	1106.5	1098.6	1097.1
45°	892.8	881.7	873.9	870.7	866.0	851.9	842.4	833.0	822.0	818.9	820.4
47.5°	693.1	682.1	679.0	671.1	663.2	655.4	649.1	638.1	636.5	630.2	636.5
50°	534.4	531.3	526.5	523.4	518.6	512.4	506.1	499.8	496.6	496.6	498.2
52.5°	414.9	416.5	411.8	407.0	403.9	403.9	396.1	394.5	394.5	388.2	394.5
55°	317.5	315.9	317.5	314.3	314.3	309.6	309.6	304.9	304.9	300.2	303.3
57.5°	232.6	235.7	232.6	234.2	237.4	232.6	231.0	226.3	229.5	226.3	227.9
60°	180.8	180.8	180.8	179.2	179.2	177.6	177.6	176.0	176.0	172.9	176.0
62.5°	133.6	135.1	135.1	135.1	136.8	135.1	133.6	135.1	133.6	133.6	135.1
65°	88.0	89.6	89.6	88.0	91.2	88.0	89.6	91.2	92.7	91.2	92.7
67.5°	59.7	59.7	61.3	62.9	61.3	62.9	64.4	62.9	64.4	67.6	64.4
70°	44.0	45.6	45.6	44.0	42.4	44.0	42.4	47.2	47.2	47.2	50.3
72.5°	28.3	28.3	26.7	26.7	26.7	26.7	26.7	31.4	28.3	26.7	29.9
75°	15.7	17.3	17.3	12.6	14.2	17.3	12.6	14.2	18.9	15.7	18.9
77.5°	9.4	9.4	9.4	9.4	9.4	9.4	12.6	11.0	11.0	11.0	12.6
80°	7.8	6.3	6.3	4.7	6.3	6.3	6.3	9.4	7.8	7.8	9.4
82.5°	3.2	3.2	1.6	0.0	3.2	3.2	3.2	3.2	3.2	3.2	6.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	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: P244973

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9
2.5°	3215.7	3215.7	3214.1	3211.0	3204.7	3204.7	3203.1	3198.4	3195.3	3193.7	3193.7
5°	3200.0	3193.7	3187.4	3170.2	3170.2	3167.0	3157.6	3151.3	3148.2	3140.3	3137.2
7.5°	3185.9	3167.0	3156.0	3145.0	3130.9	3124.5	3113.5	3108.8	3097.8	3090.0	3085.3
10°	3151.3	3138.7	3124.5	3107.3	3096.3	3083.7	3071.1	3061.7	3047.6	3039.7	3033.4
12.5°	3127.7	3108.8	3096.3	3077.4	3058.6	3047.6	3030.3	3019.3	3005.1	2989.4	2980.0
15°	3105.7	3085.3	3068.0	3047.6	3027.1	3014.6	2994.1	2981.6	2961.1	2945.4	2934.4
17.5°	3072.7	3055.4	3036.6	3011.4	2992.6	2976.9	2954.8	2939.1	2920.2	2899.8	2888.8
20°	3038.1	3017.7	2998.8	2973.7	2954.8	2936.0	2914.0	2896.7	2874.6	2855.8	2843.3
22.5°	2992.6	2969.0	2953.2	2928.1	2906.1	2885.7	2865.3	2844.8	2824.4	2808.7	2794.5
25°	2926.5	2901.4	2884.1	2863.6	2843.3	2827.5	2802.4	2789.8	2769.4	2755.2	2741.0
27.5°	2832.2	2813.4	2797.7	2777.2	2759.9	2747.4	2728.5	2715.9	2698.6	2686.1	2675.1
30°	2693.9	2678.2	2664.1	2643.6	2631.1	2620.1	2602.7	2591.7	2579.2	2565.0	2561.9
32.5°	2508.5	2495.9	2481.8	2467.6	2458.1	2451.9	2437.7	2431.4	2418.9	2411.0	2403.2
35°	2228.7	2217.7	2209.9	2203.6	2200.4	2202.0	2198.9	2205.1	2208.2	2206.7	2208.2
37.5°	1862.5	1856.2	1859.3	1864.1	1879.8	1900.2	1919.1	1947.3	1966.2	1985.1	2002.4
40°	1453.8	1458.6	1471.1	1499.4	1540.3	1585.9	1628.3	1681.8	1735.2	1772.9	1807.5
42.5°	1097.1	1111.2	1142.6	1183.5	1244.8	1312.4	1378.4	1457.0	1521.5	1584.3	1628.3
45°	825.2	844.0	884.9	941.5	1009.0	1087.6	1170.9	1258.9	1336.0	1400.4	1449.1
47.5°	642.9	660.1	701.0	760.7	844.0	925.8	1012.2	1103.3	1183.5	1246.4	1288.8
50°	507.6	529.6	565.8	628.7	712.0	798.4	888.0	977.6	1053.1	1106.5	1144.2
52.5°	399.2	419.7	454.2	520.3	605.1	691.6	774.8	862.9	928.9	980.7	1005.9
55°	309.6	328.5	364.6	419.7	499.8	584.7	668.0	743.5	804.7	842.4	866.0
57.5°	235.7	249.9	275.1	330.1	402.4	480.9	551.7	627.1	674.3	701.0	716.7
60°	179.2	190.2	216.9	259.4	325.3	392.9	452.7	509.3	547.0	569.0	584.7
62.5°	135.1	147.8	166.6	202.7	253.0	308.1	358.3	400.8	432.2	446.4	457.4
65°	92.7	102.2	116.3	144.6	187.0	226.3	265.6	297.1	317.5	333.2	339.5
67.5°	69.2	75.4	83.3	105.3	135.1	166.6	193.3	215.3	237.4	243.6	254.6
70°	51.9	56.6	64.4	80.2	97.4	119.4	141.5	154.0	169.8	180.8	183.9
72.5°	33.0	34.5	42.4	51.9	66.0	80.2	94.3	105.3	114.8	121.0	124.1
75°	18.9	28.3	28.3	37.7	47.2	53.4	62.9	70.7	75.4	80.2	80.2
77.5°	12.6	17.3	18.9	23.5	28.3	36.2	44.0	48.7	53.4	55.0	55.0
80°	11.0	12.6	12.6	17.3	20.4	26.7	31.4	33.0	36.2	37.7	40.9
82.5°	4.7	6.3	7.8	12.6	14.2	14.2	18.9	20.4	23.5	25.2	25.2
85°	1.6	3.2	3.2	4.7	7.8	9.4	11.0	12.6	14.2	14.2	15.7
87.5°	1.6	1.6	0.0	1.6	3.2	3.2	6.3	6.3	6.3	9.4	9.4
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: P244973

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9	3218.9
2.5°	3190.6	3192.2	3185.9	3184.3	3181.2	3182.7	3185.9
5°	3132.4	3134.0	3127.7	3121.4	3121.4	3119.8	3121.4
7.5°	3077.4	3079.0	3069.6	3066.4	3060.1	3061.7	3061.7
10°	3022.4	3022.4	3008.3	3006.7	3002.0	3000.4	3000.4
12.5°	2969.0	2964.2	2953.2	2947.0	2950.1	2940.7	2940.7
15°	2921.8	2914.0	2899.8	2895.1	2887.3	2884.1	2884.1
17.5°	2873.1	2866.8	2854.3	2844.8	2835.4	2833.8	2835.4
20°	2825.9	2819.6	2803.9	2797.7	2789.8	2789.8	2786.7
22.5°	2778.8	2772.5	2758.4	2753.7	2742.7	2742.7	2744.2
25°	2730.0	2725.3	2709.6	2706.5	2704.9	2698.6	2701.8
27.5°	2664.1	2660.9	2648.3	2643.6	2637.3	2635.8	2638.9
30°	2543.0	2538.3	2528.9	2524.2	2513.2	2514.8	2517.9
32.5°	2392.2	2385.9	2373.3	2368.5	2359.2	2356.0	2357.5
35°	2203.6	2198.9	2187.9	2187.9	2178.4	2175.2	2178.4
37.5°	2011.8	2016.5	2011.8	2016.5	2011.8	2010.2	2011.8
40°	1831.1	1848.3	1851.5	1868.8	1862.5	1871.9	1870.3
42.5°	1658.1	1686.4	1697.5	1711.6	1708.5	1714.8	1719.5
45°	1483.7	1507.3	1518.3	1527.7	1529.3	1532.5	1534.0
47.5°	1318.6	1337.5	1339.1	1350.1	1348.5	1348.5	1353.3
50°	1164.7	1177.2	1180.3	1188.2	1181.9	1178.8	1180.3
52.5°	1021.6	1034.2	1031.0	1034.2	1026.4	1023.2	1024.7
55°	875.4	881.7	881.7	881.7	872.3	872.3	872.3
57.5°	726.1	727.7	724.6	726.1	724.6	715.1	713.6
60°	589.4	589.4	587.8	589.4	584.7	580.0	580.0
62.5°	460.5	463.7	469.9	463.7	460.5	463.7	458.9
65°	344.2	350.5	348.9	352.1	350.5	350.5	347.3
67.5°	259.4	260.9	262.5	264.1	264.1	264.1	264.1
70°	190.2	194.9	193.3	193.3	193.3	193.3	202.7
72.5°	127.3	133.6	132.0	135.1	135.1	138.3	135.1
75°	86.4	92.7	89.6	94.3	92.7	89.6	97.4
77.5°	58.2	61.3	62.9	64.4	62.9	61.3	62.9
80°	40.9	44.0	42.4	44.0	44.0	44.0	45.6
82.5°	25.2	29.9	28.3	29.9	28.3	29.9	29.9
85°	17.3	18.9	15.7	18.9	17.3	17.3	20.4
87.5°	11.0	9.4	9.4	11.0	9.4	11.0	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)