

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: P245843

Luminaire Tested: **LD8B50D010 ER8B50850 8LBSW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245843  
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 ER8B50850 8LBSW0GPH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5161.0 lumens  
Efficiency: N/A  
Efficacy: 97.4 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

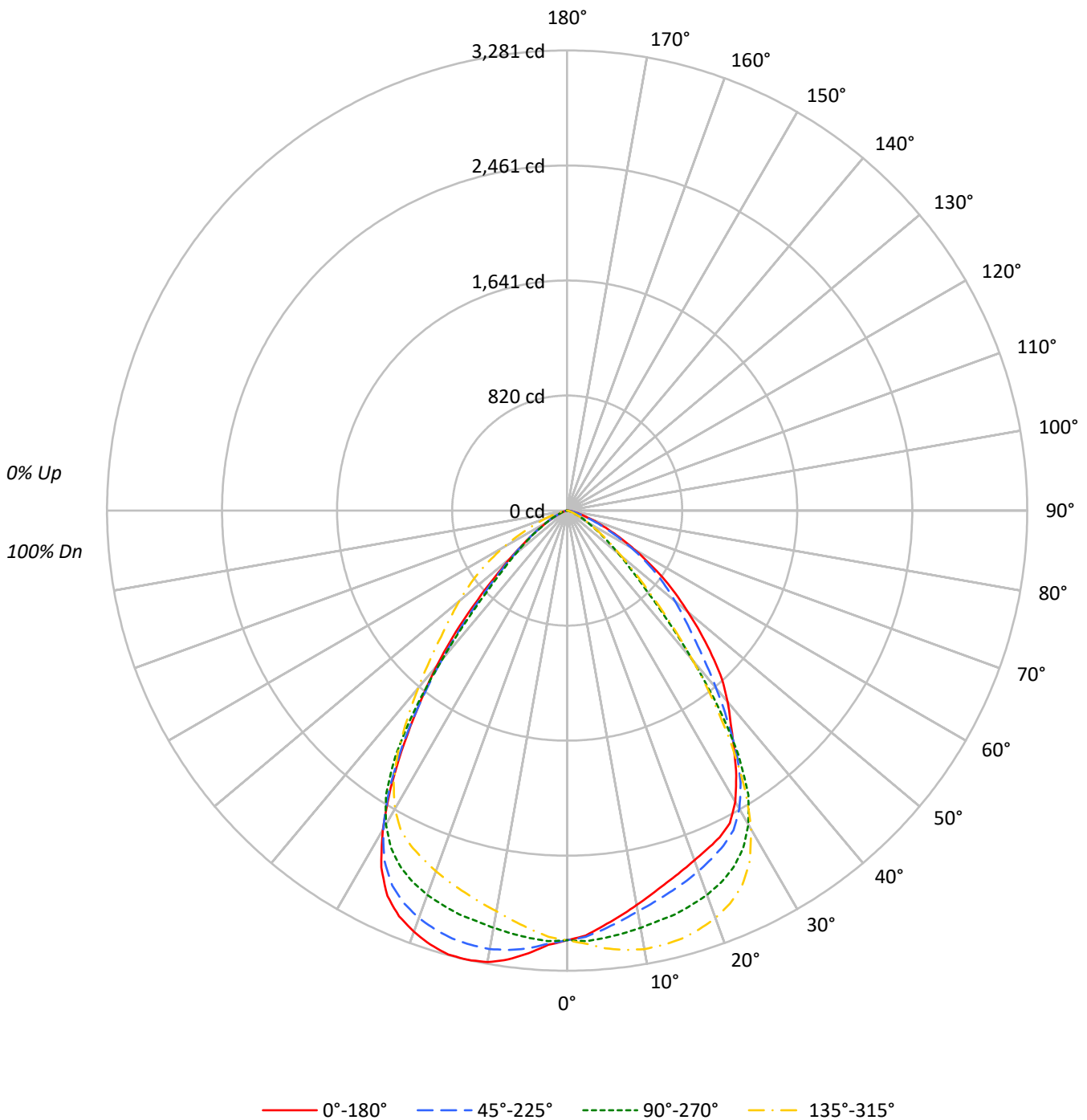
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	94479	94479	94479	94479
5°	91971	94701	98084	94701
10°	89427	94578	102356	94578
15°	87641	95140	104596	95140
20°	87043	95683	104865	95683
25°	87500	95492	103178	95492
30°	85339	91997	93649	91997
35°	78055	80254	76143	80254
40°	71664	55824	58296	55824
45°	63678	34054	39405	34054
50°	53897	22749	25262	22749
55°	44638	15521	16408	15521
60°	34049	10336	10423	10336
65°	24122	6436	5896	6436
70°	17401	4310	3913	4310
75°	11044	2145	1787	2145
80°	7707	1598	1332	1598
85°	6899	0	531	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	291.6	5.7
10°-20°	844.5	16.4
20°-30°	1278.8	24.8
30°-40°	1281.6	24.8
40°-50°	804.8	15.6
50°-60°	428.9	8.3
60°-70°	176.4	3.4
70°-80°	46.6	0.9
80°-90°	7.9	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°	2414.9	46.8
0°-40°	3696.5	71.6
0°-60°	4930.2	95.5
0°-90°	5161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5161.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3064	3064	3064	3064	3064	
5°	2971	3059	3169	3059	2971	280
15°	2745	2980	3276	2980	2745	776
25°	2572	2807	3032	2807	2572	1179
35°	2074	2132	2023	2132	2074	1299
45°	1460	781	904	781	1460	1123
55°	830	289	305	289	830	740
65°	331	88	81	88	331	343
75°	93	18	15	18	93	105
85°	20	0	2	0	20	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°	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9
2.5°	3032.5	3029.5	3028.0	3031.0	3032.5	3038.5	3037.0	3040.0	3040.0	3041.5	3044.5
5°	2971.2	2969.6	2971.2	2971.2	2977.2	2983.1	2981.7	2986.1	2989.1	2996.6	2999.6
7.5°	2914.3	2914.3	2912.8	2918.8	2921.8	2930.8	2929.2	2936.8	2941.3	2948.7	2959.2
10°	2856.0	2856.0	2857.4	2861.9	2863.5	2876.9	2876.9	2887.4	2893.3	2900.9	2914.3
12.5°	2799.1	2799.1	2808.1	2805.1	2811.1	2821.5	2826.0	2836.5	2845.5	2860.5	2874.0
15°	2745.3	2745.3	2748.3	2755.7	2760.2	2773.7	2781.2	2793.2	2803.6	2818.6	2838.1
17.5°	2698.9	2697.4	2698.9	2707.9	2716.9	2728.8	2734.8	2749.7	2760.2	2779.7	2797.7
20°	2652.5	2655.5	2655.5	2663.0	2669.0	2683.9	2689.9	2706.4	2718.3	2736.3	2757.3
22.5°	2612.1	2610.6	2610.6	2621.1	2625.6	2639.0	2645.0	2660.0	2673.5	2688.4	2707.9
25°	2571.7	2568.7	2574.7	2576.2	2579.2	2594.1	2598.6	2609.1	2622.6	2636.1	2655.5
27.5°	2511.9	2508.9	2510.4	2516.4	2520.9	2532.8	2535.8	2546.3	2556.8	2568.7	2585.2
30°	2396.7	2393.7	2392.2	2402.7	2407.2	2416.1	2420.6	2438.6	2441.5	2455.0	2467.0
32.5°	2244.1	2242.6	2245.6	2254.5	2259.0	2271.0	2277.0	2287.5	2294.9	2302.4	2314.4
35°	2073.5	2070.5	2073.5	2082.5	2082.5	2093.0	2097.5	2101.9	2100.5	2101.9	2099.0
37.5°	1915.0	1913.4	1915.0	1919.4	1915.0	1919.4	1915.0	1906.0	1889.6	1871.6	1853.6
40°	1780.3	1781.8	1772.9	1778.8	1762.3	1759.4	1742.9	1720.5	1687.6	1651.7	1600.8
42.5°	1636.7	1632.2	1626.2	1629.2	1615.8	1605.2	1578.3	1549.9	1508.0	1448.2	1386.8
45°	1460.2	1458.7	1455.7	1454.2	1445.2	1434.7	1412.3	1379.4	1333.0	1271.7	1198.3
47.5°	1288.1	1283.6	1283.6	1285.1	1274.6	1273.1	1255.2	1226.8	1186.4	1126.5	1050.2
50°	1123.5	1122.0	1125.0	1131.0	1123.5	1120.6	1108.6	1089.1	1053.2	1002.4	930.5
52.5°	975.4	973.9	977.0	984.4	981.4	984.4	972.5	957.5	933.5	884.2	821.3
55°	830.3	830.3	830.3	839.3	839.3	839.3	833.3	824.4	801.9	766.0	707.7
57.5°	679.2	680.7	689.7	691.2	689.7	692.7	691.2	682.2	667.3	641.8	596.9
60°	552.1	552.1	556.6	561.0	559.5	561.0	561.0	556.6	541.6	520.7	484.7
62.5°	436.8	441.3	438.3	441.3	447.3	441.3	438.3	435.4	424.9	411.4	381.5
65°	330.6	333.6	333.6	335.1	332.1	333.6	327.7	323.2	317.2	302.2	282.8
67.5°	251.4	251.4	251.4	251.4	249.8	248.3	246.9	242.4	231.9	225.9	204.9
70°	193.0	184.0	184.0	184.0	184.0	185.5	181.0	175.1	172.1	161.6	146.6
72.5°	128.6	131.7	128.6	128.6	125.7	127.2	121.2	118.2	115.2	109.2	100.3
75°	92.7	85.3	88.2	89.8	85.3	88.2	82.3	76.3	76.3	71.8	67.3
77.5°	59.9	58.4	59.9	61.3	59.9	58.4	55.4	52.3	52.3	50.9	46.4
80°	43.4	41.9	41.9	41.9	40.4	41.9	38.9	38.9	35.9	34.4	31.4
82.5°	28.4	28.4	26.9	28.4	26.9	28.4	24.0	24.0	24.0	22.4	19.5
85°	19.5	16.4	16.4	18.0	15.0	18.0	16.4	15.0	13.5	13.5	11.9
87.5°	9.0	10.5	9.0	10.5	9.0	9.0	10.5	9.0	9.0	6.0	6.0
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: P245843

CATALOG NUMBER: LD8B50D010 ER8B50850 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9
2.5°	3049.0	3050.4	3050.4	3056.5	3059.4	3060.9	3060.9	3072.9	3068.4	3071.4	3074.4
5°	3005.6	3014.5	3017.6	3017.6	3034.0	3040.0	3045.9	3059.4	3060.9	3069.9	3080.4
7.5°	2963.7	2974.1	2980.2	2993.6	3004.1	3014.5	3032.5	3041.5	3050.4	3062.4	3075.9
10°	2923.3	2935.3	2947.2	2957.7	2974.1	2987.6	2999.6	3020.5	3031.0	3047.5	3065.4
12.5°	2884.4	2900.9	2911.3	2929.2	2947.2	2959.2	2977.2	2996.6	3013.1	3029.5	3050.4
15°	2850.0	2869.5	2881.4	2900.9	2920.3	2936.8	2956.2	2980.2	2992.1	3011.6	3031.0
17.5°	2812.6	2833.6	2848.5	2866.4	2890.4	2908.3	2924.8	2948.7	2963.7	2984.6	3007.1
20°	2773.7	2794.6	2812.6	2830.5	2854.5	2872.4	2891.9	2915.8	2932.3	2953.2	2971.2
22.5°	2727.3	2746.8	2766.2	2787.1	2811.1	2826.0	2848.5	2869.5	2887.4	2906.8	2924.8
25°	2667.5	2691.4	2706.4	2725.8	2745.3	2761.7	2785.6	2806.6	2821.5	2839.5	2856.0
27.5°	2597.2	2615.1	2627.1	2643.5	2663.0	2677.9	2695.9	2716.9	2731.8	2748.3	2760.2
30°	2477.4	2493.9	2504.4	2516.4	2535.8	2549.3	2564.3	2583.7	2594.1	2606.1	2616.6
32.5°	2320.4	2333.8	2339.8	2348.8	2362.3	2375.7	2387.7	2404.2	2408.7	2416.1	2416.1
35°	2093.0	2096.0	2094.5	2097.5	2103.5	2110.9	2121.4	2131.9	2137.8	2137.8	2133.4
37.5°	1826.7	1808.8	1789.3	1774.3	1769.8	1766.8	1772.9	1777.3	1783.3	1786.3	1778.8
40°	1549.9	1509.5	1466.1	1427.2	1400.3	1388.4	1383.9	1386.8	1386.8	1397.3	1397.3
42.5°	1312.1	1249.2	1184.9	1126.5	1087.6	1057.7	1044.3	1044.3	1045.7	1053.2	1057.7
45°	1114.6	1035.3	960.4	896.2	842.3	803.4	785.4	780.9	779.5	782.4	792.9
47.5°	963.5	881.2	803.4	724.1	667.3	628.4	611.9	605.9	599.9	605.9	607.4
50°	845.3	760.0	677.7	598.4	538.6	504.1	483.2	474.2	472.7	472.7	475.8
52.5°	737.5	658.3	576.0	495.2	432.3	399.5	380.0	375.5	369.5	375.5	375.5
55°	635.8	556.6	475.8	399.5	347.1	312.7	294.7	288.7	285.7	290.2	290.2
57.5°	525.1	457.8	383.0	314.2	261.8	237.9	224.4	216.9	215.4	218.4	215.4
60°	430.9	374.0	309.7	246.9	206.5	181.0	170.6	167.6	164.5	167.6	167.6
62.5°	341.1	293.2	240.8	193.0	158.6	140.6	128.6	128.6	127.2	127.2	128.6
65°	252.8	215.4	178.0	137.6	110.7	97.2	88.2	88.2	86.8	88.2	86.8
67.5°	184.0	158.6	128.6	100.3	79.3	71.8	65.8	61.3	64.4	61.3	59.9
70°	134.7	113.7	92.7	76.3	61.3	53.9	49.4	47.8	44.9	44.9	44.9
72.5°	89.8	76.3	62.8	49.4	40.4	32.9	31.4	28.4	25.4	26.9	29.9
75°	59.9	50.9	44.9	35.9	26.9	26.9	18.0	18.0	15.0	18.0	13.5
77.5°	41.9	34.4	26.9	22.4	18.0	16.4	11.9	11.9	10.5	10.5	10.5
80°	29.9	25.4	19.5	16.4	11.9	11.9	10.5	9.0	7.5	7.5	9.0
82.5°	18.0	13.5	13.5	11.9	7.5	6.0	4.5	6.0	3.0	3.0	3.0
85°	10.5	9.0	7.5	4.5	3.0	3.0	1.5	0.0	1.5	1.5	0.0
87.5°	6.0	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°	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9
2.5°	3081.9	3080.4	3083.4	3083.4	3092.4	3090.8	3095.3	3095.3	3092.4	3093.8	3099.8
5°	3092.4	3096.9	3105.8	3113.3	3126.7	3132.8	3140.2	3147.7	3149.2	3153.7	3158.2
7.5°	3092.4	3107.3	3117.8	3131.2	3149.2	3159.7	3176.1	3189.6	3195.6	3203.0	3212.0
10°	3086.3	3101.3	3120.8	3135.7	3158.2	3174.6	3191.1	3212.0	3221.0	3233.0	3245.0
12.5°	3074.4	3090.8	3111.8	3131.2	3156.7	3171.6	3192.6	3212.0	3225.5	3241.9	3255.4
15°	3056.5	3075.9	3095.3	3114.8	3141.7	3159.7	3179.1	3201.6	3215.0	3233.0	3245.0
17.5°	3028.0	3049.0	3066.9	3084.9	3110.3	3131.2	3149.2	3170.1	3183.6	3198.6	3215.0
20°	2993.6	3013.1	3032.5	3047.5	3072.9	3090.8	3110.3	3129.8	3140.2	3143.2	3168.7
22.5°	2950.2	2963.7	2978.6	3002.6	3017.6	3034.0	3052.0	3069.9	3080.4	3096.9	3105.8
25°	2878.4	2891.9	2908.3	2918.8	2936.8	2950.2	2968.2	2987.6	2993.6	3005.6	3014.5
27.5°	2778.2	2785.6	2793.2	2802.1	2812.6	2820.1	2830.5	2839.5	2845.5	2851.5	2857.4
30°	2619.6	2619.6	2619.6	2613.6	2618.1	2622.6	2624.1	2622.6	2622.6	2621.1	2621.1
32.5°	2410.1	2398.2	2384.7	2372.8	2368.3	2362.3	2359.3	2354.8	2347.3	2342.8	2344.3
35°	2127.4	2100.5	2084.0	2069.1	2057.1	2048.1	2043.6	2039.1	2037.6	2031.7	2025.6
37.5°	1774.3	1754.9	1742.9	1733.9	1723.5	1714.5	1716.0	1717.5	1721.9	1719.0	1720.5
40°	1400.3	1395.8	1400.3	1389.8	1386.8	1389.8	1397.3	1407.8	1413.8	1419.8	1430.2
42.5°	1065.2	1072.6	1083.2	1083.2	1087.6	1093.6	1102.6	1119.1	1128.0	1138.5	1150.5
45°	801.9	810.9	824.4	828.8	831.8	839.3	849.8	863.2	869.2	878.2	888.6
47.5°	617.9	623.9	631.3	638.8	646.3	649.3	659.8	659.8	667.3	673.2	676.2
50°	481.7	487.7	493.7	498.2	501.2	505.7	508.6	513.1	514.6	517.6	519.1
52.5°	377.0	384.5	384.5	387.5	392.0	396.4	395.0	396.4	397.9	397.9	402.4
55°	294.7	294.7	299.2	299.2	302.2	300.7	302.2	302.2	302.2	302.2	303.7
57.5°	219.9	221.4	225.9	222.9	221.4	224.4	221.4	224.4	222.9	225.9	221.4
60°	169.0	169.0	170.6	170.6	172.1	172.1	172.1	170.6	170.6	169.0	169.0
62.5°	127.2	128.6	130.2	128.6	128.6	128.6	127.2	127.2	125.7	124.1	124.1
65°	85.3	83.8	86.8	83.8	85.3	85.3	83.8	85.3	80.8	82.3	80.8
67.5°	61.3	59.9	58.4	59.9	58.4	56.8	56.8	58.4	59.9	55.4	55.4
70°	40.4	41.9	40.4	41.9	43.4	43.4	41.9	40.4	41.9	38.9	40.4
72.5°	25.4	25.4	25.4	25.4	25.4	26.9	26.9	26.9	24.0	24.0	22.4
75°	11.9	16.4	13.5	11.9	16.4	16.4	15.0	15.0	13.5	13.5	13.5
77.5°	11.9	9.0	9.0	9.0	9.0	9.0	9.0	9.0	7.5	9.0	7.5
80°	6.0	6.0	6.0	4.5	6.0	6.0	7.5	6.0	6.0	4.5	7.5
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: P245843

CATALOG NUMBER: LD8B50D010 ER8B50850 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9
2.5°	3098.3	3096.9	3098.3	3099.8	3098.3	3096.9	3098.3	3099.8	3093.8	3092.4	3095.3
5°	3164.2	3164.2	3167.1	3168.7	3167.1	3164.2	3164.2	3158.2	3153.7	3149.2	3147.7
7.5°	3221.0	3224.0	3227.0	3228.5	3227.0	3224.0	3221.0	3212.0	3203.0	3195.6	3189.6
10°	3255.4	3259.9	3265.9	3268.9	3265.9	3259.9	3255.4	3245.0	3233.0	3221.0	3212.0
12.5°	3270.4	3274.9	3282.3	3280.9	3282.3	3274.9	3270.4	3255.4	3241.9	3225.5	3212.0
15°	3259.9	3265.9	3273.4	3276.4	3273.4	3265.9	3259.9	3245.0	3233.0	3215.0	3201.6
17.5°	3227.0	3236.0	3240.5	3245.0	3240.5	3236.0	3227.0	3215.0	3198.6	3183.6	3170.1
20°	3182.1	3188.1	3194.1	3195.6	3194.1	3188.1	3182.1	3168.7	3143.2	3140.2	3129.8
22.5°	3117.8	3122.3	3135.7	3131.2	3135.7	3122.3	3117.8	3105.8	3096.9	3080.4	3069.9
25°	3025.0	3029.5	3031.0	3032.5	3031.0	3029.5	3025.0	3014.5	3005.6	2993.6	2987.6
27.5°	2865.0	2865.0	2867.9	2869.5	2867.9	2865.0	2865.0	2857.4	2851.5	2845.5	2839.5
30°	2622.6	2622.6	2622.6	2630.1	2622.6	2622.6	2622.6	2621.1	2621.1	2622.6	2622.6
32.5°	2342.8	2339.8	2336.9	2339.8	2336.9	2339.8	2342.8	2344.3	2342.8	2347.3	2354.8
35°	2025.6	2024.2	2028.7	2022.7	2028.7	2024.2	2025.6	2025.6	2031.7	2037.6	2039.1
37.5°	1721.9	1719.0	1724.9	1719.0	1724.9	1719.0	1721.9	1720.5	1719.0	1721.9	1717.5
40°	1433.3	1436.2	1436.2	1448.2	1436.2	1436.2	1433.3	1430.2	1419.8	1413.8	1407.8
42.5°	1156.5	1165.4	1162.4	1171.4	1162.4	1165.4	1156.5	1150.5	1138.5	1128.0	1119.1
45°	894.6	900.7	900.7	903.6	900.7	900.7	894.6	888.6	878.2	869.2	863.2
47.5°	686.7	686.7	686.7	688.2	686.7	686.7	686.7	676.2	673.2	667.3	659.8
50°	522.1	523.6	525.1	526.6	525.1	523.6	522.1	519.1	517.6	514.6	513.1
52.5°	400.9	402.4	399.5	402.4	399.5	402.4	400.9	402.4	397.9	397.9	396.4
55°	303.7	302.2	303.7	305.2	303.7	302.2	303.7	303.7	302.2	302.2	302.2
57.5°	222.9	219.9	219.9	219.9	219.9	219.9	222.9	221.4	225.9	222.9	224.4
60°	166.1	167.6	167.6	169.0	167.6	167.6	166.1	169.0	169.0	170.6	170.6
62.5°	122.7	127.2	124.1	127.2	124.1	127.2	122.7	124.1	124.1	125.7	127.2
65°	79.3	79.3	79.3	80.8	79.3	79.3	79.3	80.8	82.3	80.8	85.3
67.5°	53.9	55.4	58.4	56.8	58.4	55.4	53.9	55.4	55.4	59.9	58.4
70°	43.4	38.9	38.9	43.4	38.9	38.9	43.4	40.4	38.9	41.9	40.4
72.5°	25.4	22.4	25.4	25.4	25.4	22.4	25.4	22.4	24.0	24.0	26.9
75°	13.5	11.9	10.5	15.0	10.5	11.9	13.5	13.5	13.5	13.5	15.0
77.5°	9.0	7.5	10.5	10.5	10.5	7.5	9.0	7.5	9.0	7.5	9.0
80°	4.5	6.0	4.5	7.5	4.5	6.0	4.5	7.5	4.5	6.0	6.0
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: P245843

CATALOG NUMBER: LD8B50D010 ER8B50850 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9
2.5°	3095.3	3090.8	3092.4	3083.4	3083.4	3080.4	3081.9	3074.4	3071.4	3068.4	3072.9
5°	3140.2	3132.8	3126.7	3113.3	3105.8	3096.9	3092.4	3080.4	3069.9	3060.9	3059.4
7.5°	3176.1	3159.7	3149.2	3131.2	3117.8	3107.3	3092.4	3075.9	3062.4	3050.4	3041.5
10°	3191.1	3174.6	3158.2	3135.7	3120.8	3101.3	3086.3	3065.4	3047.5	3031.0	3020.5
12.5°	3192.6	3171.6	3156.7	3131.2	3111.8	3090.8	3074.4	3050.4	3029.5	3013.1	2996.6
15°	3179.1	3159.7	3141.7	3114.8	3095.3	3075.9	3056.5	3031.0	3011.6	2992.1	2980.2
17.5°	3149.2	3131.2	3110.3	3084.9	3066.9	3049.0	3028.0	3007.1	2984.6	2963.7	2948.7
20°	3110.3	3090.8	3072.9	3047.5	3032.5	3013.1	2993.6	2971.2	2953.2	2932.3	2915.8
22.5°	3052.0	3034.0	3017.6	3002.6	2978.6	2963.7	2950.2	2924.8	2906.8	2887.4	2869.5
25°	2968.2	2950.2	2936.8	2918.8	2908.3	2891.9	2878.4	2856.0	2839.5	2821.5	2806.6
27.5°	2830.5	2820.1	2812.6	2802.1	2793.2	2785.6	2778.2	2760.2	2748.3	2731.8	2716.9
30°	2624.1	2622.6	2618.1	2613.6	2619.6	2619.6	2619.6	2616.6	2606.1	2594.1	2583.7
32.5°	2359.3	2362.3	2368.3	2372.8	2384.7	2398.2	2410.1	2416.1	2416.1	2408.7	2404.2
35°	2043.6	2048.1	2057.1	2069.1	2084.0	2100.5	2127.4	2133.4	2137.8	2137.8	2131.9
37.5°	1716.0	1714.5	1723.5	1733.9	1742.9	1754.9	1774.3	1778.8	1786.3	1783.3	1777.3
40°	1397.3	1389.8	1386.8	1389.8	1400.3	1395.8	1400.3	1397.3	1397.3	1386.8	1386.8
42.5°	1102.6	1093.6	1087.6	1083.2	1083.2	1072.6	1065.2	1057.7	1053.2	1045.7	1044.3
45°	849.8	839.3	831.8	828.8	824.4	810.9	801.9	792.9	782.4	779.5	780.9
47.5°	659.8	649.3	646.3	638.8	631.3	623.9	617.9	607.4	605.9	599.9	605.9
50°	508.6	505.7	501.2	498.2	493.7	487.7	481.7	475.8	472.7	472.7	474.2
52.5°	395.0	396.4	392.0	387.5	384.5	384.5	377.0	375.5	375.5	369.5	375.5
55°	302.2	300.7	302.2	299.2	299.2	294.7	294.7	290.2	290.2	285.7	288.7
57.5°	221.4	224.4	221.4	222.9	225.9	221.4	219.9	215.4	218.4	215.4	216.9
60°	172.1	172.1	172.1	170.6	170.6	169.0	169.0	167.6	167.6	164.5	167.6
62.5°	127.2	128.6	128.6	128.6	130.2	128.6	127.2	128.6	127.2	127.2	128.6
65°	83.8	85.3	85.3	83.8	86.8	83.8	85.3	86.8	88.2	86.8	88.2
67.5°	56.8	56.8	58.4	59.9	58.4	59.9	61.3	59.9	61.3	64.4	61.3
70°	41.9	43.4	43.4	41.9	40.4	41.9	40.4	44.9	44.9	44.9	47.8
72.5°	26.9	26.9	25.4	25.4	25.4	25.4	25.4	29.9	26.9	25.4	28.4
75°	15.0	16.4	16.4	11.9	13.5	16.4	11.9	13.5	18.0	15.0	18.0
77.5°	9.0	9.0	9.0	9.0	9.0	9.0	11.9	10.5	10.5	10.5	11.9
80°	7.5	6.0	6.0	4.5	6.0	6.0	6.0	9.0	7.5	7.5	9.0
82.5°	3.0	3.0	1.5	0.0	3.0	3.0	3.0	3.0	3.0	3.0	6.0
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: P245843

CATALOG NUMBER: LD8B50D010 ER8B50850 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9
2.5°	3060.9	3060.9	3059.4	3056.5	3050.4	3050.4	3049.0	3044.5	3041.5	3040.0	3040.0
5°	3045.9	3040.0	3034.0	3017.6	3017.6	3014.5	3005.6	2999.6	2996.6	2989.1	2986.1
7.5°	3032.5	3014.5	3004.1	2993.6	2980.2	2974.1	2963.7	2959.2	2948.7	2941.3	2936.8
10°	2999.6	2987.6	2974.1	2957.7	2947.2	2935.3	2923.3	2914.3	2900.9	2893.3	2887.4
12.5°	2977.2	2959.2	2947.2	2929.2	2911.3	2900.9	2884.4	2874.0	2860.5	2845.5	2836.5
15°	2956.2	2936.8	2920.3	2900.9	2881.4	2869.5	2850.0	2838.1	2818.6	2803.6	2793.2
17.5°	2924.8	2908.3	2890.4	2866.4	2848.5	2833.6	2812.6	2797.7	2779.7	2760.2	2749.7
20°	2891.9	2872.4	2854.5	2830.5	2812.6	2794.6	2773.7	2757.3	2736.3	2718.3	2706.4
22.5°	2848.5	2826.0	2811.1	2787.1	2766.2	2746.8	2727.3	2707.9	2688.4	2673.5	2660.0
25°	2785.6	2761.7	2745.3	2725.8	2706.4	2691.4	2667.5	2655.5	2636.1	2622.6	2609.1
27.5°	2695.9	2677.9	2663.0	2643.5	2627.1	2615.1	2597.2	2585.2	2568.7	2556.8	2546.3
30°	2564.3	2549.3	2535.8	2516.4	2504.4	2493.9	2477.4	2467.0	2455.0	2441.5	2438.6
32.5°	2387.7	2375.7	2362.3	2348.8	2339.8	2333.8	2320.4	2314.4	2302.4	2294.9	2287.5
35°	2121.4	2110.9	2103.5	2097.5	2094.5	2096.0	2093.0	2099.0	2101.9	2100.5	2101.9
37.5°	1772.9	1766.8	1769.8	1774.3	1789.3	1808.8	1826.7	1853.6	1871.6	1889.6	1906.0
40°	1383.9	1388.4	1400.3	1427.2	1466.1	1509.5	1549.9	1600.8	1651.7	1687.6	1720.5
42.5°	1044.3	1057.7	1087.6	1126.5	1184.9	1249.2	1312.1	1386.8	1448.2	1508.0	1549.9
45°	785.4	803.4	842.3	896.2	960.4	1035.3	1114.6	1198.3	1271.7	1333.0	1379.4
47.5°	611.9	628.4	667.3	724.1	803.4	881.2	963.5	1050.2	1126.5	1186.4	1226.8
50°	483.2	504.1	538.6	598.4	677.7	760.0	845.3	930.5	1002.4	1053.2	1089.1
52.5°	380.0	399.5	432.3	495.2	576.0	658.3	737.5	821.3	884.2	933.5	957.5
55°	294.7	312.7	347.1	399.5	475.8	556.6	635.8	707.7	766.0	801.9	824.4
57.5°	224.4	237.9	261.8	314.2	383.0	457.8	525.1	596.9	641.8	667.3	682.2
60°	170.6	181.0	206.5	246.9	309.7	374.0	430.9	484.7	520.7	541.6	556.6
62.5°	128.6	140.6	158.6	193.0	240.8	293.2	341.1	381.5	411.4	424.9	435.4
65°	88.2	97.2	110.7	137.6	178.0	215.4	252.8	282.8	302.2	317.2	323.2
67.5°	65.8	71.8	79.3	100.3	128.6	158.6	184.0	204.9	225.9	231.9	242.4
70°	49.4	53.9	61.3	76.3	92.7	113.7	134.7	146.6	161.6	172.1	175.1
72.5°	31.4	32.9	40.4	49.4	62.8	76.3	89.8	100.3	109.2	115.2	118.2
75°	18.0	26.9	26.9	35.9	44.9	50.9	59.9	67.3	71.8	76.3	76.3
77.5°	11.9	16.4	18.0	22.4	26.9	34.4	41.9	46.4	50.9	52.3	52.3
80°	10.5	11.9	11.9	16.4	19.5	25.4	29.9	31.4	34.4	35.9	38.9
82.5°	4.5	6.0	7.5	11.9	13.5	13.5	18.0	19.5	22.4	24.0	24.0
85°	1.5	3.0	3.0	4.5	7.5	9.0	10.5	11.9	13.5	13.5	15.0
87.5°	1.5	1.5	0.0	1.5	3.0	3.0	6.0	6.0	6.0	9.0	9.0
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: P245843

CATALOG NUMBER: LD8B50D010 ER8B50850 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9	3063.9
2.5°	3037.0	3038.5	3032.5	3031.0	3028.0	3029.5	3032.5
5°	2981.7	2983.1	2977.2	2971.2	2971.2	2969.6	2971.2
7.5°	2929.2	2930.8	2921.8	2918.8	2912.8	2914.3	2914.3
10°	2876.9	2876.9	2863.5	2861.9	2857.4	2856.0	2856.0
12.5°	2826.0	2821.5	2811.1	2805.1	2808.1	2799.1	2799.1
15°	2781.2	2773.7	2760.2	2755.7	2748.3	2745.3	2745.3
17.5°	2734.8	2728.8	2716.9	2707.9	2698.9	2697.4	2698.9
20°	2689.9	2683.9	2669.0	2663.0	2655.5	2655.5	2652.5
22.5°	2645.0	2639.0	2625.6	2621.1	2610.6	2610.6	2612.1
25°	2598.6	2594.1	2579.2	2576.2	2574.7	2568.7	2571.7
27.5°	2535.8	2532.8	2520.9	2516.4	2510.4	2508.9	2511.9
30°	2420.6	2416.1	2407.2	2402.7	2392.2	2393.7	2396.7
32.5°	2277.0	2271.0	2259.0	2254.5	2245.6	2242.6	2244.1
35°	2097.5	2093.0	2082.5	2082.5	2073.5	2070.5	2073.5
37.5°	1915.0	1919.4	1915.0	1919.4	1915.0	1913.4	1915.0
40°	1742.9	1759.4	1762.3	1778.8	1772.9	1781.8	1780.3
42.5°	1578.3	1605.2	1615.8	1629.2	1626.2	1632.2	1636.7
45°	1412.3	1434.7	1445.2	1454.2	1455.7	1458.7	1460.2
47.5°	1255.2	1273.1	1274.6	1285.1	1283.6	1283.6	1288.1
50°	1108.6	1120.6	1123.5	1131.0	1125.0	1122.0	1123.5
52.5°	972.5	984.4	981.4	984.4	977.0	973.9	975.4
55°	833.3	839.3	839.3	839.3	830.3	830.3	830.3
57.5°	691.2	692.7	689.7	691.2	689.7	680.7	679.2
60°	561.0	561.0	559.5	561.0	556.6	552.1	552.1
62.5°	438.3	441.3	447.3	441.3	438.3	441.3	436.8
65°	327.7	333.6	332.1	335.1	333.6	333.6	330.6
67.5°	246.9	248.3	249.8	251.4	251.4	251.4	251.4
70°	181.0	185.5	184.0	184.0	184.0	184.0	193.0
72.5°	121.2	127.2	125.7	128.6	128.6	131.7	128.6
75°	82.3	88.2	85.3	89.8	88.2	85.3	92.7
77.5°	55.4	58.4	59.9	61.3	59.9	58.4	59.9
80°	38.9	41.9	40.4	41.9	41.9	41.9	43.4
82.5°	24.0	28.4	26.9	28.4	26.9	28.4	28.4
85°	16.4	18.0	15.0	18.0	16.4	16.4	19.5
87.5°	10.5	9.0	9.0	10.5	9.0	10.5	9.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)