

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: P245837

Luminaire Tested: **LD8B50D010 ER8B50840 8LBSW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245837  
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 8LBSW0GPH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5062.0 lumens  
Efficiency: N/A  
Efficacy: 95.5 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

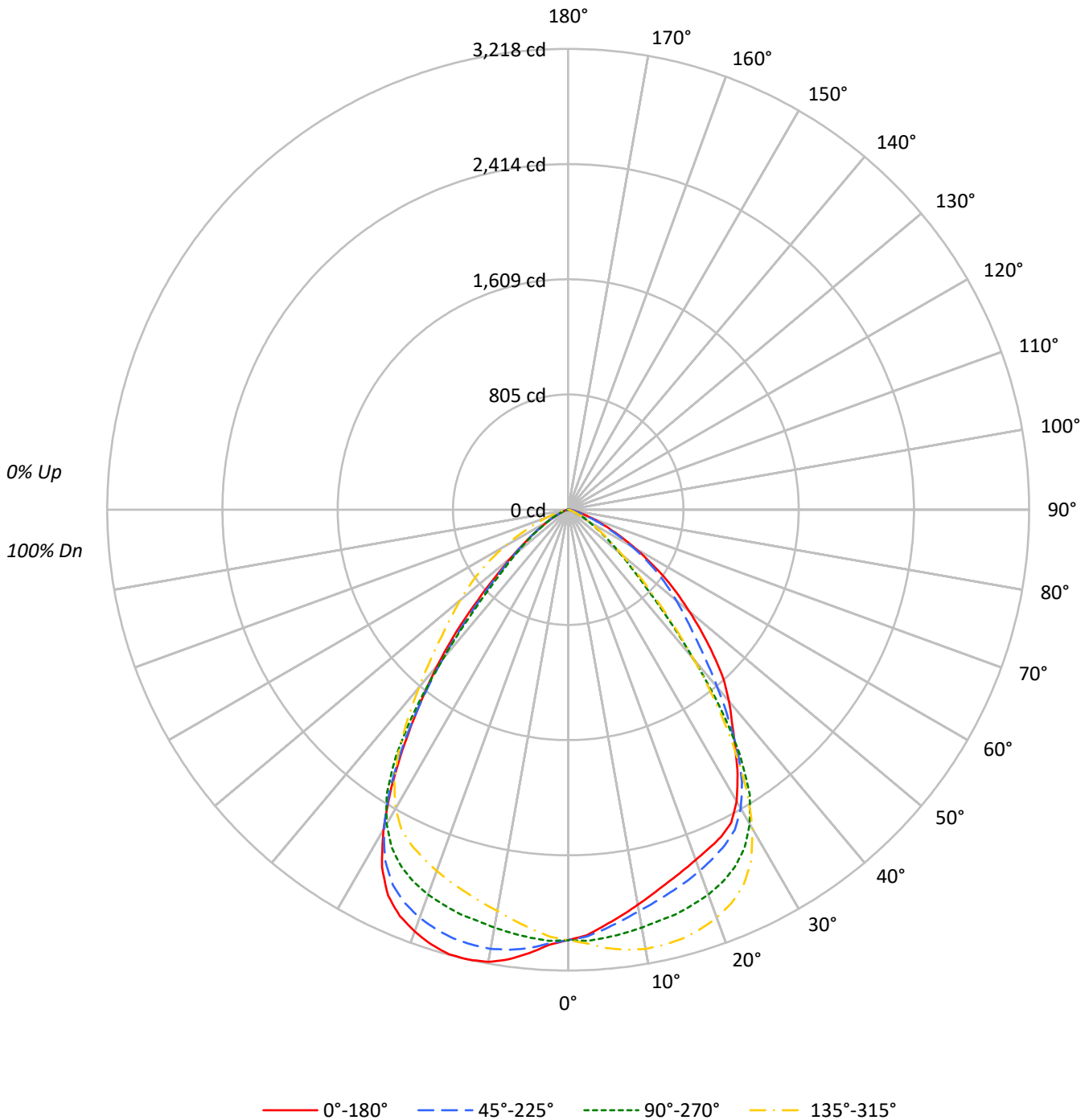
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	92666	92666	92666	92666
5°	90206	92884	96202	92884
10°	87711	92765	100393	92765
15°	85959	93314	102588	93314
20°	85372	93849	102853	93849
25°	85822	93658	101198	93658
30°	83701	90231	91851	90231
35°	76561	78714	74682	78714
40°	70291	54753	57177	54753
45°	62457	33405	38651	33405
50°	52866	22312	24778	22312
55°	43783	15225	16091	15225
60°	33396	10133	10225	10133
65°	23663	6311	5779	6311
70°	17067	4228	3841	4228
75°	10842	2097	1751	2097
80°	7565	1563	1296	1563
85°	6758	0	495	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.0	5.7
10°-20°	828.3	16.4
20°-30°	1254.2	24.8
30°-40°	1257.0	24.8
40°-50°	789.4	15.6
50°-60°	420.6	8.3
60°-70°	173.0	3.4
70°-80°	45.7	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°	2368.6	46.8
0°-40°	3625.6	71.6
0°-60°	4835.6	95.5
0°-90°	5062.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5062.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3005	3005	3005	3005	3005	
5°	2914	3001	3108	3001	2914	275
15°	2693	2923	3214	2923	2693	762
25°	2522	2753	2974	2753	2522	1157
35°	2034	2091	1984	2091	2034	1274
45°	1432	766	886	766	1432	1101
55°	814	283	299	283	814	726
65°	324	86	79	86	324	336
75°	91	18	15	18	91	103
85°	19	0	1	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°	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1
2.5°	2974.3	2971.4	2969.9	2972.9	2974.3	2980.2	2978.8	2981.7	2981.7	2983.2	2986.1
5°	2914.2	2912.7	2914.2	2914.2	2920.0	2925.9	2924.5	2928.9	2931.8	2939.1	2942.0
7.5°	2858.4	2858.4	2856.9	2862.8	2865.8	2874.6	2873.1	2880.4	2884.8	2892.1	2902.4
10°	2801.2	2801.2	2802.6	2807.0	2808.6	2821.7	2821.7	2832.0	2837.8	2845.2	2858.4
12.5°	2745.4	2745.4	2754.3	2751.3	2757.2	2767.4	2771.8	2782.1	2790.9	2805.6	2818.8
15°	2692.6	2692.6	2695.6	2702.9	2707.3	2720.5	2727.8	2739.6	2749.8	2764.5	2783.6
17.5°	2647.1	2645.7	2647.1	2655.9	2664.7	2676.5	2682.3	2697.0	2707.3	2726.4	2744.0
20°	2601.6	2604.6	2604.6	2611.9	2617.8	2632.4	2638.3	2654.5	2666.2	2683.8	2704.4
22.5°	2562.0	2560.6	2560.6	2570.8	2575.2	2588.4	2594.3	2608.9	2622.2	2636.8	2655.9
25°	2522.4	2519.4	2525.3	2526.8	2529.7	2544.4	2548.8	2559.1	2572.3	2585.5	2604.6
27.5°	2463.7	2460.8	2462.2	2468.1	2472.5	2484.2	2487.2	2497.4	2507.7	2519.4	2535.6
30°	2350.7	2347.8	2346.3	2356.6	2361.0	2369.8	2374.2	2391.8	2394.7	2407.9	2419.7
32.5°	2201.0	2199.6	2202.5	2211.3	2215.7	2227.5	2233.3	2243.6	2250.9	2258.3	2270.0
35°	2033.8	2030.8	2033.8	2042.6	2042.6	2052.9	2057.3	2061.6	2060.2	2061.6	2058.7
37.5°	1878.2	1876.7	1878.2	1882.6	1878.2	1882.6	1878.2	1869.4	1853.3	1835.7	1818.0
40°	1746.2	1747.6	1738.9	1744.7	1728.5	1725.6	1709.5	1687.5	1655.2	1620.0	1570.1
42.5°	1605.3	1600.9	1595.0	1597.9	1584.8	1574.4	1548.1	1520.2	1479.1	1420.4	1360.2
45°	1432.2	1430.7	1427.7	1426.3	1417.5	1407.2	1385.2	1352.9	1307.4	1247.3	1175.3
47.5°	1263.4	1259.0	1259.0	1260.4	1250.2	1248.7	1231.1	1203.2	1163.6	1104.9	1030.1
50°	1102.0	1100.5	1103.5	1109.3	1102.0	1099.1	1087.3	1068.3	1033.0	983.2	912.7
52.5°	956.7	955.3	958.2	965.5	962.6	965.5	953.8	939.1	915.6	867.2	805.6
55°	814.4	814.4	814.4	823.2	823.2	823.2	817.3	808.5	786.5	751.3	694.1
57.5°	666.2	667.6	676.5	677.9	676.5	679.4	677.9	669.1	654.5	629.5	585.5
60°	541.5	541.5	545.9	550.3	548.8	550.3	550.3	545.9	531.2	510.7	475.5
62.5°	428.5	432.9	429.9	432.9	438.7	432.9	429.9	427.0	416.7	403.5	374.2
65°	324.3	327.2	327.2	328.7	325.7	327.2	321.4	317.0	311.1	296.4	277.3
67.5°	246.5	246.5	246.5	246.5	245.0	243.6	242.1	237.7	227.5	221.6	201.0
70°	189.3	180.5	180.5	180.5	180.5	182.0	177.6	171.7	168.8	158.5	143.8
72.5°	126.2	129.1	126.2	126.2	123.3	124.7	118.9	115.9	113.0	107.1	98.3
75°	91.0	83.7	86.5	88.1	83.7	86.5	80.7	74.8	74.8	70.4	66.0
77.5°	58.7	57.3	58.7	60.2	58.7	57.3	54.3	51.3	51.3	49.9	45.5
80°	42.6	41.1	41.1	41.1	39.6	41.1	38.2	38.2	35.2	33.8	30.8
82.5°	27.9	27.9	26.4	27.9	26.4	27.9	23.5	23.5	23.5	22.0	19.1
85°	19.1	16.1	16.1	17.6	14.7	17.6	16.1	14.7	13.2	13.2	11.7
87.5°	8.8	10.3	8.8	10.3	8.8	8.8	10.3	8.8	8.8	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°	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1
2.5°	2990.5	2991.9	2991.9	2997.8	3000.7	3002.2	3002.2	3014.0	3009.6	3012.5	3015.4
5°	2948.0	2956.7	2959.7	2959.7	2975.8	2981.7	2987.5	3000.7	3002.2	3011.0	3021.3
7.5°	2906.8	2917.1	2923.0	2936.2	2946.4	2956.7	2974.3	2983.2	2991.9	3003.7	3016.9
10°	2867.2	2879.0	2890.7	2901.0	2917.1	2930.3	2942.0	2962.6	2972.9	2989.0	3006.6
12.5°	2829.1	2845.2	2855.5	2873.1	2890.7	2902.4	2920.0	2939.1	2955.3	2971.4	2991.9
15°	2795.3	2814.4	2826.1	2845.2	2864.3	2880.4	2899.5	2923.0	2934.7	2953.8	2972.9
17.5°	2758.6	2779.2	2793.9	2811.5	2834.9	2852.5	2868.7	2892.1	2906.8	2927.4	2949.4
20°	2720.5	2741.0	2758.6	2776.2	2799.7	2817.3	2836.4	2859.9	2876.0	2896.6	2914.2
22.5°	2675.0	2694.1	2713.1	2733.7	2757.2	2771.8	2793.9	2814.4	2832.0	2851.1	2868.7
25°	2616.3	2639.8	2654.5	2673.5	2692.6	2708.7	2732.2	2752.7	2767.4	2785.1	2801.2
27.5°	2547.3	2565.0	2576.7	2592.8	2611.9	2626.6	2644.2	2664.7	2679.4	2695.6	2707.3
30°	2429.9	2446.1	2456.4	2468.1	2487.2	2500.4	2515.1	2534.1	2544.4	2556.2	2566.4
32.5°	2275.8	2289.1	2294.9	2303.8	2317.0	2330.1	2341.9	2358.0	2362.5	2369.8	2369.8
35°	2052.9	2055.8	2054.3	2057.3	2063.1	2070.4	2080.7	2091.0	2096.8	2096.8	2092.5
37.5°	1791.6	1774.1	1755.0	1740.3	1735.9	1732.9	1738.9	1743.2	1749.1	1752.0	1744.7
40°	1520.2	1480.6	1438.0	1399.8	1373.4	1361.7	1357.3	1360.2	1360.2	1370.5	1370.5
42.5°	1286.9	1225.2	1162.2	1104.9	1066.7	1037.5	1024.2	1024.2	1025.7	1033.0	1037.5
45°	1093.2	1015.4	942.0	879.0	826.1	787.9	770.4	766.0	764.5	767.4	777.7
47.5°	945.0	864.3	787.9	710.2	654.5	616.3	600.2	594.3	588.4	594.3	595.8
50°	829.1	745.4	664.7	586.9	528.2	494.5	473.9	465.1	463.7	463.7	466.6
52.5°	723.4	645.7	565.0	485.7	424.1	391.8	372.7	368.3	362.4	368.3	368.3
55°	623.6	545.9	466.6	391.8	340.4	306.7	289.1	283.2	280.2	284.7	284.7
57.5°	515.1	449.0	375.7	308.1	256.8	233.3	220.1	212.8	211.3	214.2	211.3
60°	422.6	366.9	303.7	242.1	202.5	177.6	167.3	164.3	161.4	164.3	164.3
62.5°	334.5	287.6	236.2	189.3	155.5	137.9	126.2	126.2	124.7	124.7	126.2
65°	248.0	211.3	174.6	135.0	108.6	95.4	86.5	86.5	85.1	86.5	85.1
67.5°	180.5	155.5	126.2	98.3	77.8	70.4	64.6	60.2	63.1	60.2	58.7
70°	132.1	111.5	91.0	74.8	60.2	52.8	48.4	46.9	44.0	44.0	44.0
72.5°	88.1	74.8	61.6	48.4	39.6	32.3	30.8	27.9	24.9	26.4	29.4
75°	58.7	49.9	44.0	35.2	26.4	26.4	17.6	17.6	14.7	17.6	13.2
77.5°	41.1	33.8	26.4	22.0	17.6	16.1	11.7	11.7	10.3	10.3	10.3
80°	29.4	24.9	19.1	16.1	11.7	11.7	10.3	8.8	7.3	7.3	8.8
82.5°	17.6	13.2	13.2	11.7	7.3	5.9	4.4	5.9	3.0	3.0	3.0
85°	10.3	8.8	7.3	4.4	3.0	3.0	1.4	0.0	1.4	1.4	0.0
87.5°	5.9	3.0	3.0	1.4	0.0	1.4	1.4	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°	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1
2.5°	3022.8	3021.3	3024.2	3024.2	3033.1	3031.5	3036.0	3036.0	3033.1	3034.5	3040.4
5°	3033.1	3037.5	3046.2	3053.6	3066.8	3072.7	3080.0	3087.4	3088.8	3093.2	3097.6
7.5°	3033.1	3047.7	3058.0	3071.2	3088.8	3099.1	3115.2	3128.4	3134.3	3141.6	3150.4
10°	3027.1	3041.8	3060.9	3075.6	3097.6	3113.7	3129.9	3150.4	3159.2	3170.9	3182.7
12.5°	3015.4	3031.5	3052.1	3071.2	3096.1	3110.8	3131.3	3150.4	3163.6	3179.8	3193.0
15°	2997.8	3016.9	3036.0	3055.0	3081.4	3099.1	3118.2	3140.1	3153.4	3170.9	3182.7
17.5°	2969.9	2990.5	3008.1	3025.7	3050.6	3071.2	3088.8	3109.3	3122.6	3137.2	3153.4
20°	2936.2	2955.3	2974.3	2989.0	3014.0	3031.5	3050.6	3069.7	3080.0	3082.9	3107.9
22.5°	2893.7	2906.8	2921.5	2945.0	2959.7	2975.8	2993.4	3011.0	3021.3	3037.5	3046.2
25°	2823.2	2836.4	2852.5	2862.8	2880.4	2893.7	2911.2	2930.3	2936.2	2948.0	2956.7
27.5°	2724.9	2732.2	2739.6	2748.3	2758.6	2766.0	2776.2	2785.1	2790.9	2796.8	2802.6
30°	2569.3	2569.3	2569.3	2563.5	2567.9	2572.3	2573.7	2572.3	2572.3	2570.8	2570.8
32.5°	2363.9	2352.2	2339.0	2327.2	2322.8	2317.0	2314.0	2309.6	2302.3	2297.9	2299.3
35°	2086.6	2060.2	2044.0	2029.4	2017.6	2008.8	2004.4	2000.0	1998.6	1992.7	1986.8
37.5°	1740.3	1721.2	1709.5	1700.7	1690.4	1681.6	1683.0	1684.6	1688.9	1686.0	1687.5
40°	1373.4	1369.0	1373.4	1363.2	1360.2	1363.2	1370.5	1380.8	1386.7	1392.5	1402.8
42.5°	1044.8	1052.1	1062.4	1062.4	1066.7	1072.7	1081.4	1097.6	1106.4	1116.6	1128.4
45°	786.5	795.3	808.5	812.9	815.9	823.2	833.5	846.7	852.5	861.3	871.6
47.5°	606.0	611.9	619.2	626.6	633.9	636.8	647.1	647.1	654.5	660.3	663.2
50°	472.5	478.3	484.2	488.6	491.6	496.0	498.9	503.3	504.7	507.7	509.2
52.5°	369.8	377.1	377.1	380.0	384.4	388.8	387.4	388.8	390.3	390.3	394.7
55°	289.1	289.1	293.5	293.5	296.4	294.9	296.4	296.4	296.4	296.4	297.9
57.5°	215.7	217.2	221.6	218.6	217.2	220.1	217.2	220.1	218.6	221.6	217.2
60°	165.8	165.8	167.3	167.3	168.8	168.8	168.8	167.3	167.3	165.8	165.8
62.5°	124.7	126.2	127.7	126.2	126.2	126.2	124.7	124.7	123.3	121.8	121.8
65°	83.7	82.2	85.1	82.2	83.7	83.7	82.2	83.7	79.2	80.7	79.2
67.5°	60.2	58.7	57.3	58.7	57.3	55.7	55.7	57.3	58.7	54.3	54.3
70°	39.6	41.1	39.6	41.1	42.6	42.6	41.1	39.6	41.1	38.2	39.6
72.5°	24.9	24.9	24.9	24.9	24.9	26.4	26.4	26.4	23.5	23.5	22.0
75°	11.7	16.1	13.2	11.7	16.1	16.1	14.7	14.7	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°	5.9	5.9	5.9	4.4	5.9	5.9	7.3	5.9	5.9	4.4	7.3
82.5°	3.0	3.0	3.0	0.0	1.4	3.0	3.0	1.4	3.0	3.0	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: P245837

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1
2.5°	3038.9	3037.5	3038.9	3040.4	3038.9	3037.5	3038.9	3040.4	3034.5	3033.1	3036.0
5°	3103.5	3103.5	3106.4	3107.9	3106.4	3103.5	3103.5	3097.6	3093.2	3088.8	3087.4
7.5°	3159.2	3162.2	3165.1	3166.5	3165.1	3162.2	3159.2	3150.4	3141.6	3134.3	3128.4
10°	3193.0	3197.4	3203.3	3206.2	3203.3	3197.4	3193.0	3182.7	3170.9	3159.2	3150.4
12.5°	3207.7	3212.1	3219.4	3217.9	3219.4	3212.1	3207.7	3193.0	3179.8	3163.6	3150.4
15°	3197.4	3203.3	3210.6	3213.5	3210.6	3203.3	3197.4	3182.7	3170.9	3153.4	3140.1
17.5°	3165.1	3173.9	3178.3	3182.7	3178.3	3173.9	3165.1	3153.4	3137.2	3122.6	3109.3
20°	3121.1	3127.0	3132.8	3134.3	3132.8	3127.0	3121.1	3107.9	3082.9	3080.0	3069.7
22.5°	3058.0	3062.4	3075.6	3071.2	3075.6	3062.4	3058.0	3046.2	3037.5	3021.3	3011.0
25°	2967.0	2971.4	2972.9	2974.3	2972.9	2971.4	2967.0	2956.7	2948.0	2936.2	2930.3
27.5°	2810.0	2810.0	2812.9	2814.4	2812.9	2810.0	2810.0	2802.6	2796.8	2790.9	2785.1
30°	2572.3	2572.3	2572.3	2579.6	2572.3	2572.3	2572.3	2570.8	2570.8	2572.3	2572.3
32.5°	2297.9	2294.9	2292.0	2294.9	2292.0	2294.9	2297.9	2299.3	2297.9	2302.3	2309.6
35°	1986.8	1985.3	1989.7	1983.9	1989.7	1985.3	1986.8	1986.8	1992.7	1998.6	2000.0
37.5°	1688.9	1686.0	1691.9	1686.0	1691.9	1686.0	1688.9	1687.5	1686.0	1688.9	1684.6
40°	1405.8	1408.7	1408.7	1420.4	1408.7	1408.7	1405.8	1402.8	1392.5	1386.7	1380.8
42.5°	1134.3	1143.1	1140.1	1148.9	1140.1	1143.1	1134.3	1128.4	1116.6	1106.4	1097.6
45°	877.5	883.4	883.4	886.3	883.4	883.4	877.5	871.6	861.3	852.5	846.7
47.5°	673.5	673.5	673.5	675.0	673.5	673.5	673.5	663.2	660.3	654.5	647.1
50°	512.1	513.6	515.1	516.5	515.1	513.6	512.1	509.2	507.7	504.7	503.3
52.5°	393.2	394.7	391.8	394.7	391.8	394.7	393.2	394.7	390.3	390.3	388.8
55°	297.9	296.4	297.9	299.3	297.9	296.4	297.9	297.9	296.4	296.4	296.4
57.5°	218.6	215.7	215.7	215.7	215.7	215.7	218.6	217.2	221.6	218.6	220.1
60°	162.9	164.3	164.3	165.8	164.3	164.3	162.9	165.8	165.8	167.3	167.3
62.5°	120.3	124.7	121.8	124.7	121.8	124.7	120.3	121.8	121.8	123.3	124.7
65°	77.8	77.8	77.8	79.2	77.8	77.8	77.8	79.2	80.7	79.2	83.7
67.5°	52.8	54.3	57.3	55.7	57.3	54.3	52.8	54.3	54.3	58.7	57.3
70°	42.6	38.2	38.2	42.6	38.2	38.2	42.6	39.6	38.2	41.1	39.6
72.5°	24.9	22.0	24.9	24.9	24.9	22.0	24.9	22.0	23.5	23.5	26.4
75°	13.2	11.7	10.3	14.7	10.3	11.7	13.2	13.2	13.2	13.2	14.7
77.5°	8.8	7.3	10.3	10.3	10.3	7.3	8.8	7.3	8.8	7.3	8.8
80°	4.4	5.9	4.4	7.3	4.4	5.9	4.4	7.3	4.4	5.9	5.9
82.5°	1.4	3.0	3.0	3.0	3.0	3.0	1.4	1.4	3.0	3.0	1.4
85°	0.0	3.0	1.4	1.4	1.4	3.0	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: P245837

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1
2.5°	3036.0	3031.5	3033.1	3024.2	3024.2	3021.3	3022.8	3015.4	3012.5	3009.6	3014.0
5°	3080.0	3072.7	3066.8	3053.6	3046.2	3037.5	3033.1	3021.3	3011.0	3002.2	3000.7
7.5°	3115.2	3099.1	3088.8	3071.2	3058.0	3047.7	3033.1	3016.9	3003.7	2991.9	2983.2
10°	3129.9	3113.7	3097.6	3075.6	3060.9	3041.8	3027.1	3006.6	2989.0	2972.9	2962.6
12.5°	3131.3	3110.8	3096.1	3071.2	3052.1	3031.5	3015.4	2991.9	2971.4	2955.3	2939.1
15°	3118.2	3099.1	3081.4	3055.0	3036.0	3016.9	2997.8	2972.9	2953.8	2934.7	2923.0
17.5°	3088.8	3071.2	3050.6	3025.7	3008.1	2990.5	2969.9	2949.4	2927.4	2906.8	2892.1
20°	3050.6	3031.5	3014.0	2989.0	2974.3	2955.3	2936.2	2914.2	2896.6	2876.0	2859.9
22.5°	2993.4	2975.8	2959.7	2945.0	2921.5	2906.8	2893.7	2868.7	2851.1	2832.0	2814.4
25°	2911.2	2893.7	2880.4	2862.8	2852.5	2836.4	2823.2	2801.2	2785.1	2767.4	2752.7
27.5°	2776.2	2766.0	2758.6	2748.3	2739.6	2732.2	2724.9	2707.3	2695.6	2679.4	2664.7
30°	2573.7	2572.3	2567.9	2563.5	2569.3	2569.3	2569.3	2566.4	2556.2	2544.4	2534.1
32.5°	2314.0	2317.0	2322.8	2327.2	2339.0	2352.2	2363.9	2369.8	2369.8	2362.5	2358.0
35°	2004.4	2008.8	2017.6	2029.4	2044.0	2060.2	2086.6	2092.5	2096.8	2096.8	2091.0
37.5°	1683.0	1681.6	1690.4	1700.7	1709.5	1721.2	1740.3	1744.7	1752.0	1749.1	1743.2
40°	1370.5	1363.2	1360.2	1363.2	1373.4	1369.0	1373.4	1370.5	1370.5	1360.2	1360.2
42.5°	1081.4	1072.7	1066.7	1062.4	1062.4	1052.1	1044.8	1037.5	1033.0	1025.7	1024.2
45°	833.5	823.2	815.9	812.9	808.5	795.3	786.5	777.7	767.4	764.5	766.0
47.5°	647.1	636.8	633.9	626.6	619.2	611.9	606.0	595.8	594.3	588.4	594.3
50°	498.9	496.0	491.6	488.6	484.2	478.3	472.5	466.6	463.7	463.7	465.1
52.5°	387.4	388.8	384.4	380.0	377.1	377.1	369.8	368.3	368.3	362.4	368.3
55°	296.4	294.9	296.4	293.5	293.5	289.1	289.1	284.7	284.7	280.2	283.2
57.5°	217.2	220.1	217.2	218.6	221.6	217.2	215.7	211.3	214.2	211.3	212.8
60°	168.8	168.8	168.8	167.3	167.3	165.8	165.8	164.3	164.3	161.4	164.3
62.5°	124.7	126.2	126.2	126.2	127.7	126.2	124.7	126.2	124.7	124.7	126.2
65°	82.2	83.7	83.7	82.2	85.1	82.2	83.7	85.1	86.5	85.1	86.5
67.5°	55.7	55.7	57.3	58.7	57.3	58.7	60.2	58.7	60.2	63.1	60.2
70°	41.1	42.6	42.6	41.1	39.6	41.1	39.6	44.0	44.0	44.0	46.9
72.5°	26.4	26.4	24.9	24.9	24.9	24.9	24.9	29.4	26.4	24.9	27.9
75°	14.7	16.1	16.1	11.7	13.2	16.1	11.7	13.2	17.6	14.7	17.6
77.5°	8.8	8.8	8.8	8.8	8.8	8.8	11.7	10.3	10.3	10.3	11.7
80°	7.3	5.9	5.9	4.4	5.9	5.9	5.9	8.8	7.3	7.3	8.8
82.5°	3.0	3.0	1.4	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	1.4	1.4	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: P245837

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1
2.5°	3002.2	3002.2	3000.7	2997.8	2991.9	2991.9	2990.5	2986.1	2983.2	2981.7	2981.7
5°	2987.5	2981.7	2975.8	2959.7	2959.7	2956.7	2948.0	2942.0	2939.1	2931.8	2928.9
7.5°	2974.3	2956.7	2946.4	2936.2	2923.0	2917.1	2906.8	2902.4	2892.1	2884.8	2880.4
10°	2942.0	2930.3	2917.1	2901.0	2890.7	2879.0	2867.2	2858.4	2845.2	2837.8	2832.0
12.5°	2920.0	2902.4	2890.7	2873.1	2855.5	2845.2	2829.1	2818.8	2805.6	2790.9	2782.1
15°	2899.5	2880.4	2864.3	2845.2	2826.1	2814.4	2795.3	2783.6	2764.5	2749.8	2739.6
17.5°	2868.7	2852.5	2834.9	2811.5	2793.9	2779.2	2758.6	2744.0	2726.4	2707.3	2697.0
20°	2836.4	2817.3	2799.7	2776.2	2758.6	2741.0	2720.5	2704.4	2683.8	2666.2	2654.5
22.5°	2793.9	2771.8	2757.2	2733.7	2713.1	2694.1	2675.0	2655.9	2636.8	2622.2	2608.9
25°	2732.2	2708.7	2692.6	2673.5	2654.5	2639.8	2616.3	2604.6	2585.5	2572.3	2559.1
27.5°	2644.2	2626.6	2611.9	2592.8	2576.7	2565.0	2547.3	2535.6	2519.4	2507.7	2497.4
30°	2515.1	2500.4	2487.2	2468.1	2456.4	2446.1	2429.9	2419.7	2407.9	2394.7	2391.8
32.5°	2341.9	2330.1	2317.0	2303.8	2294.9	2289.1	2275.8	2270.0	2258.3	2250.9	2243.6
35°	2080.7	2070.4	2063.1	2057.3	2054.3	2055.8	2052.9	2058.7	2061.6	2060.2	2061.6
37.5°	1738.9	1732.9	1735.9	1740.3	1755.0	1774.1	1791.6	1818.0	1835.7	1853.3	1869.4
40°	1357.3	1361.7	1373.4	1399.8	1438.0	1480.6	1520.2	1570.1	1620.0	1655.2	1687.5
42.5°	1024.2	1037.5	1066.7	1104.9	1162.2	1225.2	1286.9	1360.2	1420.4	1479.1	1520.2
45°	770.4	787.9	826.1	879.0	942.0	1015.4	1093.2	1175.3	1247.3	1307.4	1352.9
47.5°	600.2	616.3	654.5	710.2	787.9	864.3	945.0	1030.1	1104.9	1163.6	1203.2
50°	473.9	494.5	528.2	586.9	664.7	745.4	829.1	912.7	983.2	1033.0	1068.3
52.5°	372.7	391.8	424.1	485.7	565.0	645.7	723.4	805.6	867.2	915.6	939.1
55°	289.1	306.7	340.4	391.8	466.6	545.9	623.6	694.1	751.3	786.5	808.5
57.5°	220.1	233.3	256.8	308.1	375.7	449.0	515.1	585.5	629.5	654.5	669.1
60°	167.3	177.6	202.5	242.1	303.7	366.9	422.6	475.5	510.7	531.2	545.9
62.5°	126.2	137.9	155.5	189.3	236.2	287.6	334.5	374.2	403.5	416.7	427.0
65°	86.5	95.4	108.6	135.0	174.6	211.3	248.0	277.3	296.4	311.1	317.0
67.5°	64.6	70.4	77.8	98.3	126.2	155.5	180.5	201.0	221.6	227.5	237.7
70°	48.4	52.8	60.2	74.8	91.0	111.5	132.1	143.8	158.5	168.8	171.7
72.5°	30.8	32.3	39.6	48.4	61.6	74.8	88.1	98.3	107.1	113.0	115.9
75°	17.6	26.4	26.4	35.2	44.0	49.9	58.7	66.0	70.4	74.8	74.8
77.5°	11.7	16.1	17.6	22.0	26.4	33.8	41.1	45.5	49.9	51.3	51.3
80°	10.3	11.7	11.7	16.1	19.1	24.9	29.4	30.8	33.8	35.2	38.2
82.5°	4.4	5.9	7.3	11.7	13.2	13.2	17.6	19.1	22.0	23.5	23.5
85°	1.4	3.0	3.0	4.4	7.3	8.8	10.3	11.7	13.2	13.2	14.7
87.5°	1.4	1.4	0.0	1.4	3.0	3.0	5.9	5.9	5.9	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: P245837

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1
2.5°	2978.8	2980.2	2974.3	2972.9	2969.9	2971.4	2974.3
5°	2924.5	2925.9	2920.0	2914.2	2914.2	2912.7	2914.2
7.5°	2873.1	2874.6	2865.8	2862.8	2856.9	2858.4	2858.4
10°	2821.7	2821.7	2808.6	2807.0	2802.6	2801.2	2801.2
12.5°	2771.8	2767.4	2757.2	2751.3	2754.3	2745.4	2745.4
15°	2727.8	2720.5	2707.3	2702.9	2695.6	2692.6	2692.6
17.5°	2682.3	2676.5	2664.7	2655.9	2647.1	2645.7	2647.1
20°	2638.3	2632.4	2617.8	2611.9	2604.6	2604.6	2601.6
22.5°	2594.3	2588.4	2575.2	2570.8	2560.6	2560.6	2562.0
25°	2548.8	2544.4	2529.7	2526.8	2525.3	2519.4	2522.4
27.5°	2487.2	2484.2	2472.5	2468.1	2462.2	2460.8	2463.7
30°	2374.2	2369.8	2361.0	2356.6	2346.3	2347.8	2350.7
32.5°	2233.3	2227.5	2215.7	2211.3	2202.5	2199.6	2201.0
35°	2057.3	2052.9	2042.6	2042.6	2033.8	2030.8	2033.8
37.5°	1878.2	1882.6	1878.2	1882.6	1878.2	1876.7	1878.2
40°	1709.5	1725.6	1728.5	1744.7	1738.9	1747.6	1746.2
42.5°	1548.1	1574.4	1584.8	1597.9	1595.0	1600.9	1605.3
45°	1385.2	1407.2	1417.5	1426.3	1427.7	1430.7	1432.2
47.5°	1231.1	1248.7	1250.2	1260.4	1259.0	1259.0	1263.4
50°	1087.3	1099.1	1102.0	1109.3	1103.5	1100.5	1102.0
52.5°	953.8	965.5	962.6	965.5	958.2	955.3	956.7
55°	817.3	823.2	823.2	823.2	814.4	814.4	814.4
57.5°	677.9	679.4	676.5	677.9	676.5	667.6	666.2
60°	550.3	550.3	548.8	550.3	545.9	541.5	541.5
62.5°	429.9	432.9	438.7	432.9	429.9	432.9	428.5
65°	321.4	327.2	325.7	328.7	327.2	327.2	324.3
67.5°	242.1	243.6	245.0	246.5	246.5	246.5	246.5
70°	177.6	182.0	180.5	180.5	180.5	180.5	189.3
72.5°	118.9	124.7	123.3	126.2	126.2	129.1	126.2
75°	80.7	86.5	83.7	88.1	86.5	83.7	91.0
77.5°	54.3	57.3	58.7	60.2	58.7	57.3	58.7
80°	38.2	41.1	39.6	41.1	41.1	41.1	42.6
82.5°	23.5	27.9	26.4	27.9	26.4	27.9	27.9
85°	16.1	17.6	14.7	17.6	16.1	16.1	19.1
87.5°	10.3	8.8	8.8	10.3	8.8	10.3	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)