

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: P245819

Luminaire Tested: **LD8B50D010 ER8B50827 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245819
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 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4780.0 lumens
Efficiency: N/A
Efficacy: 90.2 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

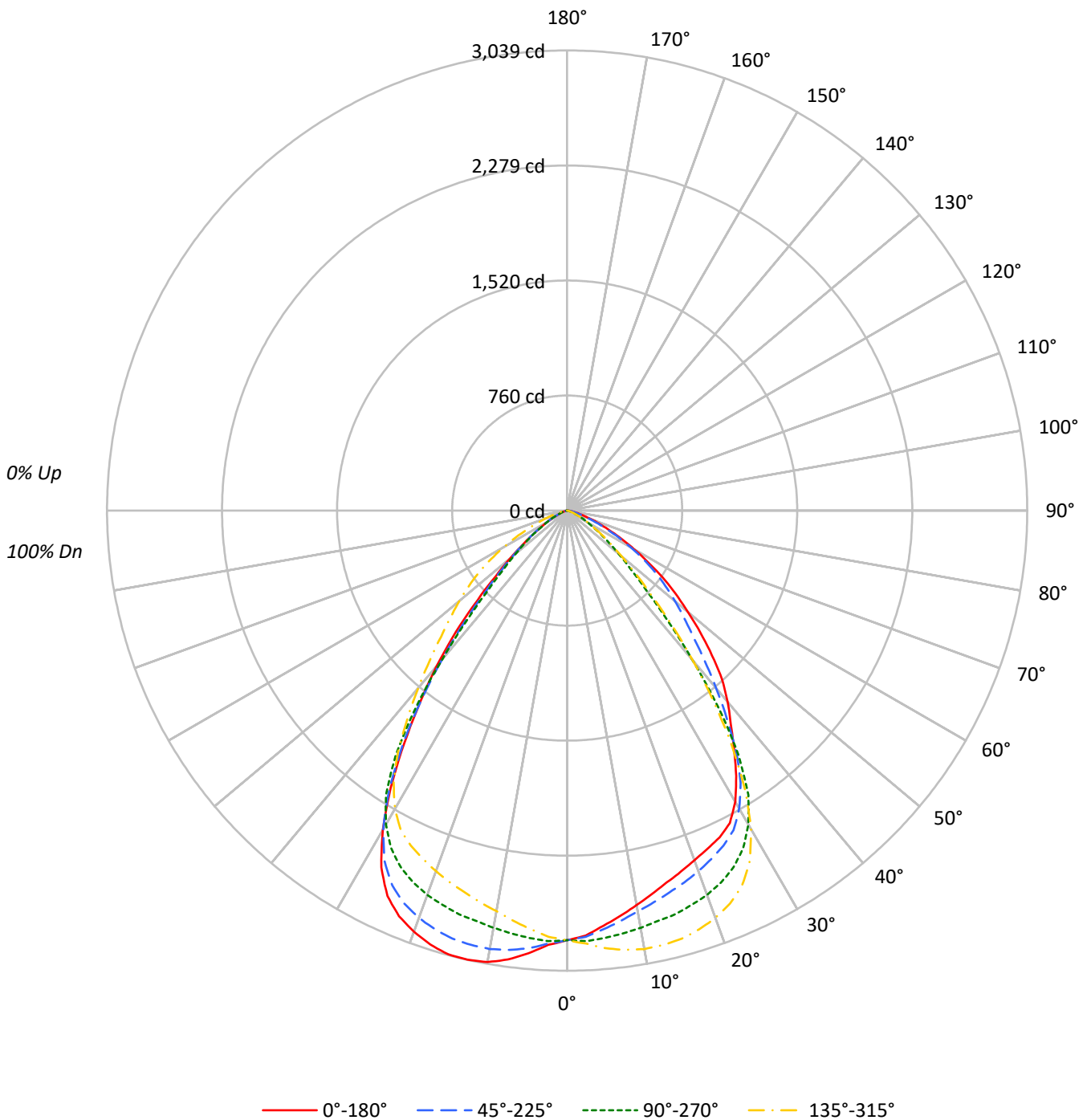
Input Watts (W): 53
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	87504	87504	87504	87504
5°	85180	87712	90841	87712
10°	82823	87595	94797	87595
15°	81170	88117	96874	88117
20°	80617	88621	97124	88621
25°	81042	88442	95560	88442
30°	79036	85203	86734	85203
35°	72296	74328	70523	74328
40°	66375	51702	53993	51702
45°	58977	31542	36496	31542
50°	49920	21070	23396	21070
55°	41343	14376	15198	14376
60°	31533	9572	9658	9572
65°	22342	5961	5458	5961
70°	16111	3994	3624	3994
75°	10234	1990	1656	1990
80°	7139	1474	1225	1474
85°	6369	0	495	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.1	5.7
10°-20°	782.2	16.4
20°-30°	1184.4	24.8
30°-40°	1187.0	24.8
40°-50°	745.4	15.6
50°-60°	397.2	8.3
60°-70°	163.3	3.4
70°-80°	43.2	0.9
80°-90°	7.3	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°	2236.6	46.8
0°-40°	3423.6	71.6
0°-60°	4566.2	95.5
0°-90°	4780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4780.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2838	2838	2838	2838	2838	
5°	2752	2834	2935	2834	2752	260
15°	2543	2760	3034	2760	2543	719
25°	2382	2599	2809	2599	2382	1092
35°	1920	1974	1873	1974	1920	1203
45°	1352	723	837	723	1352	1040
55°	769	267	283	267	769	686
65°	306	82	75	82	306	318
75°	86	17	14	17	86	97
85°	18	0	1	0	18	20
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°	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7
2.5°	2808.6	2805.9	2804.5	2807.3	2808.6	2814.2	2812.8	2815.5	2815.5	2817.0	2819.7
5°	2751.8	2750.4	2751.8	2751.8	2757.4	2762.9	2761.5	2765.7	2768.4	2775.4	2778.1
7.5°	2699.2	2699.2	2697.8	2703.3	2706.1	2714.4	2713.0	2720.0	2724.1	2731.0	2740.7
10°	2645.1	2645.1	2646.5	2650.7	2652.1	2664.5	2664.5	2674.2	2679.8	2686.7	2699.2
12.5°	2592.5	2592.5	2600.8	2598.0	2603.6	2613.3	2617.4	2627.1	2635.4	2649.3	2661.8
15°	2542.6	2542.6	2545.4	2552.3	2556.4	2568.9	2575.8	2587.0	2596.7	2610.5	2628.5
17.5°	2499.6	2498.3	2499.6	2508.0	2516.3	2527.4	2532.9	2546.8	2556.4	2574.5	2591.1
20°	2456.7	2459.5	2459.5	2466.4	2471.9	2485.8	2491.3	2506.6	2517.7	2534.3	2553.7
22.5°	2419.3	2417.9	2417.9	2427.6	2431.8	2444.2	2449.7	2463.6	2476.1	2489.9	2508.0
25°	2381.9	2379.1	2384.7	2386.0	2388.8	2402.6	2406.8	2416.5	2429.0	2441.5	2459.5
27.5°	2326.4	2323.7	2325.1	2330.6	2334.8	2345.8	2348.6	2358.3	2368.0	2379.1	2394.4
30°	2219.7	2217.0	2215.6	2225.3	2229.5	2237.7	2241.9	2258.6	2261.3	2273.8	2284.9
32.5°	2078.4	2077.0	2079.8	2088.1	2092.3	2103.4	2108.9	2118.6	2125.5	2132.5	2143.5
35°	1920.5	1917.7	1920.5	1928.8	1928.8	1938.5	1942.7	1946.8	1945.4	1946.8	1944.0
37.5°	1773.6	1772.2	1773.6	1777.7	1773.6	1777.7	1773.6	1765.3	1750.1	1733.4	1716.8
40°	1648.9	1650.3	1642.0	1647.5	1632.2	1629.5	1614.3	1593.4	1563.0	1529.7	1482.6
42.5°	1515.9	1511.7	1506.2	1508.9	1496.5	1486.7	1461.8	1435.5	1396.7	1341.3	1284.4
45°	1352.4	1351.0	1348.2	1346.8	1338.5	1328.8	1308.0	1277.5	1234.6	1177.8	1109.9
47.5°	1193.0	1188.9	1188.9	1190.2	1180.5	1179.2	1162.5	1136.2	1098.8	1043.4	972.7
50°	1040.6	1039.2	1042.0	1047.5	1040.6	1037.8	1026.8	1008.7	975.5	928.4	861.8
52.5°	903.4	902.0	904.8	911.7	908.9	911.7	900.7	886.8	864.6	818.9	760.7
55°	769.0	769.0	769.0	777.3	777.3	777.3	771.8	763.5	742.7	709.4	655.4
57.5°	629.1	630.4	638.8	640.1	638.8	641.6	640.1	631.8	618.0	594.5	552.9
60°	511.3	511.3	515.5	519.6	518.2	519.6	519.6	515.5	501.6	482.2	449.0
62.5°	404.6	408.8	406.0	408.8	414.3	408.8	406.0	403.2	393.5	381.0	353.3
65°	306.2	309.0	309.0	310.4	307.6	309.0	303.5	299.3	293.8	279.9	261.9
67.5°	232.8	232.8	232.8	232.8	231.4	230.0	228.6	224.5	214.8	209.3	189.8
70°	178.7	170.4	170.4	170.4	170.4	171.8	167.7	162.1	159.4	149.7	135.8
72.5°	119.1	121.9	119.1	119.1	116.4	117.8	112.2	109.4	106.7	101.2	92.8
75°	85.9	79.0	81.7	83.2	79.0	81.7	76.2	70.7	70.7	66.5	62.3
77.5°	55.4	54.1	55.4	56.8	55.4	54.1	51.3	48.5	48.5	47.1	42.9
80°	40.2	38.8	38.8	38.8	37.4	38.8	36.0	36.0	33.3	31.9	29.1
82.5°	26.3	26.3	24.9	26.3	24.9	26.3	22.2	22.2	22.2	20.8	18.0
85°	18.0	15.2	15.2	16.7	13.9	16.7	15.2	13.9	12.5	12.5	11.1
87.5°	8.3	9.7	8.3	9.7	8.3	8.3	9.7	8.3	8.3	5.5	5.5
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°	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7
2.5°	2823.9	2825.2	2825.2	2830.8	2833.6	2834.9	2834.9	2846.1	2841.9	2844.7	2847.4
5°	2783.7	2792.0	2794.8	2794.8	2810.0	2815.5	2821.1	2833.6	2834.9	2843.3	2853.0
7.5°	2744.9	2754.6	2760.2	2772.6	2782.3	2792.0	2808.6	2817.0	2825.2	2836.4	2848.8
10°	2707.5	2718.6	2729.7	2739.4	2754.6	2767.1	2778.1	2797.5	2807.3	2822.5	2839.1
12.5°	2671.5	2686.7	2696.4	2713.0	2729.7	2740.7	2757.4	2775.4	2790.6	2805.9	2825.2
15°	2639.6	2657.6	2668.7	2686.7	2704.7	2720.0	2738.0	2760.2	2771.2	2789.3	2807.3
17.5°	2604.9	2624.4	2638.2	2654.8	2677.0	2693.6	2708.9	2731.0	2744.9	2764.3	2785.1
20°	2568.9	2588.3	2604.9	2621.6	2643.8	2660.4	2678.4	2700.6	2715.8	2735.2	2751.8
22.5°	2526.0	2544.0	2562.0	2581.4	2603.6	2617.4	2638.2	2657.6	2674.2	2692.2	2708.9
25°	2470.6	2492.7	2506.6	2524.6	2542.6	2557.8	2580.0	2599.4	2613.3	2629.9	2645.1
27.5°	2405.4	2422.1	2433.1	2448.4	2466.4	2480.3	2496.8	2516.3	2530.2	2545.4	2556.4
30°	2294.6	2309.8	2319.5	2330.6	2348.6	2361.1	2375.0	2392.9	2402.6	2413.8	2423.4
32.5°	2149.1	2161.6	2167.1	2175.4	2187.9	2200.3	2211.5	2226.7	2230.8	2237.7	2237.7
35°	1938.5	1941.2	1939.9	1942.7	1948.2	1955.1	1964.8	1974.5	1980.0	1980.0	1975.9
37.5°	1691.8	1675.2	1657.2	1643.3	1639.2	1636.4	1642.0	1646.1	1651.7	1654.4	1647.5
40°	1435.5	1398.1	1357.9	1321.9	1296.9	1285.9	1281.7	1284.4	1284.4	1294.1	1294.1
42.5°	1215.2	1157.0	1097.4	1043.4	1007.3	979.7	967.2	967.2	968.5	975.5	979.7
45°	1032.3	958.8	889.5	830.0	780.1	744.1	727.5	723.3	721.9	724.7	734.4
47.5°	892.3	816.1	744.1	670.7	618.0	582.0	566.7	561.1	555.6	561.1	562.6
50°	782.9	703.9	627.7	554.2	498.8	466.9	447.5	439.2	437.8	437.8	440.6
52.5°	683.1	609.7	533.5	458.7	400.4	370.0	352.0	347.8	342.3	347.8	347.8
55°	588.9	515.5	440.6	370.0	321.4	289.6	273.0	267.4	264.6	268.8	268.8
57.5°	486.4	424.0	354.7	291.0	242.5	220.3	207.8	200.9	199.5	202.3	199.5
60°	399.1	346.4	286.8	228.6	191.2	167.7	158.0	155.2	152.4	155.2	155.2
62.5°	315.9	271.6	223.1	178.7	146.9	130.3	119.1	119.1	117.8	117.8	119.1
65°	234.2	199.5	164.9	127.5	102.5	90.1	81.7	81.7	80.4	81.7	80.4
67.5°	170.4	146.9	119.1	92.8	73.5	66.5	61.0	56.8	59.6	56.8	55.4
70°	124.7	105.3	85.9	70.7	56.8	49.9	45.7	44.3	41.6	41.6	41.6
72.5°	83.2	70.7	58.2	45.7	37.4	30.5	29.1	26.3	23.6	24.9	27.7
75°	55.4	47.1	41.6	33.3	24.9	24.9	16.7	16.7	13.9	16.7	12.5
77.5°	38.8	31.9	24.9	20.8	16.7	15.2	11.1	11.1	9.7	9.7	9.7
80°	27.7	23.6	18.0	15.2	11.1	11.1	9.7	8.3	6.9	6.9	8.3
82.5°	16.7	12.5	12.5	11.1	6.9	5.5	4.2	5.5	2.8	2.8	2.8
85°	9.7	8.3	6.9	4.2	2.8	2.8	1.4	0.0	1.4	1.4	0.0
87.5°	5.5	2.8	2.8	1.4	0.0	1.4	1.4	0.0	0.0	0.0	2.8
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°	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7
2.5°	2854.4	2853.0	2855.8	2855.8	2864.1	2862.7	2866.8	2866.8	2864.1	2865.5	2871.0
5°	2864.1	2868.2	2876.5	2883.5	2895.9	2901.5	2908.4	2915.4	2916.7	2920.9	2925.1
7.5°	2864.1	2877.9	2887.6	2900.1	2916.7	2926.4	2941.6	2954.1	2959.7	2966.6	2974.9
10°	2858.5	2872.4	2890.4	2904.2	2925.1	2940.3	2955.5	2974.9	2983.2	2994.3	3005.4
12.5°	2847.4	2862.7	2882.0	2900.1	2923.6	2937.5	2956.9	2974.9	2987.4	3002.6	3015.1
15°	2830.8	2848.8	2866.8	2884.8	2909.8	2926.4	2944.4	2965.2	2977.7	2994.3	3005.4
17.5°	2804.5	2823.9	2840.5	2857.1	2880.7	2900.1	2916.7	2936.1	2948.6	2962.5	2977.7
20°	2772.6	2790.6	2808.6	2822.5	2846.1	2862.7	2880.7	2898.7	2908.4	2911.2	2934.7
22.5°	2732.5	2744.9	2758.7	2780.9	2794.8	2810.0	2826.7	2843.3	2853.0	2868.2	2876.5
25°	2665.9	2678.4	2693.6	2703.3	2720.0	2732.5	2749.0	2767.1	2772.6	2783.7	2792.0
27.5°	2573.1	2580.0	2587.0	2595.2	2604.9	2611.9	2621.6	2629.9	2635.4	2641.0	2646.5
30°	2426.2	2426.2	2426.2	2420.7	2424.8	2429.0	2430.3	2429.0	2429.0	2427.6	2427.6
32.5°	2232.2	2221.2	2208.7	2197.6	2193.4	2187.9	2185.1	2180.9	2174.0	2169.9	2171.2
35°	1970.3	1945.4	1930.2	1916.3	1905.2	1896.9	1892.8	1888.6	1887.2	1881.7	1876.1
37.5°	1643.3	1625.3	1614.3	1605.9	1596.2	1587.9	1589.3	1590.7	1594.8	1592.1	1593.4
40°	1296.9	1292.8	1296.9	1287.2	1284.4	1287.2	1294.1	1303.9	1309.4	1315.0	1324.6
42.5°	986.6	993.5	1003.2	1003.2	1007.3	1012.9	1021.2	1036.5	1044.7	1054.4	1065.5
45°	742.7	751.0	763.5	767.6	770.4	777.3	787.1	799.5	805.0	813.3	823.0
47.5°	572.3	577.8	584.7	591.7	598.6	601.4	611.1	611.1	618.0	623.5	626.3
50°	446.2	451.7	457.2	461.4	464.2	468.4	471.1	475.3	476.6	479.4	480.8
52.5°	349.2	356.1	356.1	358.9	363.0	367.2	365.8	367.2	368.5	368.5	372.7
55°	273.0	273.0	277.1	277.1	279.9	278.5	279.9	279.9	279.9	279.9	281.3
57.5°	203.7	205.1	209.3	206.5	205.1	207.8	205.1	207.8	206.5	209.3	205.1
60°	156.6	156.6	158.0	158.0	159.4	159.4	159.4	158.0	158.0	156.6	156.6
62.5°	117.8	119.1	120.6	119.1	119.1	119.1	117.8	117.8	116.4	115.0	115.0
65°	79.0	77.6	80.4	77.6	79.0	79.0	77.6	79.0	74.8	76.2	74.8
67.5°	56.8	55.4	54.1	55.4	54.1	52.6	52.6	54.1	55.4	51.3	51.3
70°	37.4	38.8	37.4	38.8	40.2	40.2	38.8	37.4	38.8	36.0	37.4
72.5°	23.6	23.6	23.6	23.6	23.6	24.9	24.9	24.9	22.2	22.2	20.8
75°	11.1	15.2	12.5	11.1	15.2	15.2	13.9	13.9	12.5	12.5	12.5
77.5°	11.1	8.3	8.3	8.3	8.3	8.3	8.3	8.3	6.9	8.3	6.9
80°	5.5	5.5	5.5	4.2	5.5	5.5	6.9	5.5	5.5	4.2	6.9
82.5°	2.8	2.8	2.8	0.0	1.4	2.8	2.8	1.4	2.8	2.8	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: P245819

CATALOG NUMBER: LD8B50D010 ER8B50827 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7
2.5°	2869.6	2868.2	2869.6	2871.0	2869.6	2868.2	2869.6	2871.0	2865.5	2864.1	2866.8
5°	2930.6	2930.6	2933.3	2934.7	2933.3	2930.6	2930.6	2925.1	2920.9	2916.7	2915.4
7.5°	2983.2	2986.0	2988.8	2990.1	2988.8	2986.0	2983.2	2974.9	2966.6	2959.7	2954.1
10°	3015.1	3019.3	3024.8	3027.5	3024.8	3019.3	3015.1	3005.4	2994.3	2983.2	2974.9
12.5°	3029.0	3033.1	3040.0	3038.7	3040.0	3033.1	3029.0	3015.1	3002.6	2987.4	2974.9
15°	3019.3	3024.8	3031.7	3034.5	3031.7	3024.8	3019.3	3005.4	2994.3	2977.7	2965.2
17.5°	2988.8	2997.1	3001.2	3005.4	3001.2	2997.1	2988.8	2977.7	2962.5	2948.6	2936.1
20°	2947.2	2952.8	2958.3	2959.7	2958.3	2952.8	2947.2	2934.7	2911.2	2908.4	2898.7
22.5°	2887.6	2891.8	2904.2	2900.1	2904.2	2891.8	2887.6	2876.5	2868.2	2853.0	2843.3
25°	2801.7	2805.9	2807.3	2808.6	2807.3	2805.9	2801.7	2792.0	2783.7	2772.6	2767.1
27.5°	2653.5	2653.5	2656.2	2657.6	2656.2	2653.5	2653.5	2646.5	2641.0	2635.4	2629.9
30°	2429.0	2429.0	2429.0	2435.9	2429.0	2429.0	2429.0	2427.6	2427.6	2429.0	2429.0
32.5°	2169.9	2167.1	2164.3	2167.1	2164.3	2167.1	2169.9	2171.2	2169.9	2174.0	2180.9
35°	1876.1	1874.7	1878.9	1873.4	1878.9	1874.7	1876.1	1876.1	1881.7	1887.2	1888.6
37.5°	1594.8	1592.1	1597.6	1592.1	1597.6	1592.1	1594.8	1593.4	1592.1	1594.8	1590.7
40°	1327.4	1330.2	1330.2	1341.3	1330.2	1330.2	1327.4	1324.6	1315.0	1309.4	1303.9
42.5°	1071.1	1079.4	1076.6	1084.9	1076.6	1079.4	1071.1	1065.5	1054.4	1044.7	1036.5
45°	828.6	834.2	834.2	836.9	834.2	834.2	828.6	823.0	813.3	805.0	799.5
47.5°	636.0	636.0	636.0	637.4	636.0	636.0	636.0	626.3	623.5	618.0	611.1
50°	483.6	485.0	486.4	487.7	486.4	485.0	483.6	480.8	479.4	476.6	475.3
52.5°	371.3	372.7	370.0	372.7	370.0	372.7	371.3	372.7	368.5	368.5	367.2
55°	281.3	279.9	281.3	282.7	281.3	279.9	281.3	281.3	279.9	279.9	279.9
57.5°	206.5	203.7	203.7	203.7	203.7	203.7	206.5	205.1	209.3	206.5	207.8
60°	153.8	155.2	155.2	156.6	155.2	155.2	153.8	156.6	156.6	158.0	158.0
62.5°	113.6	117.8	115.0	117.8	115.0	117.8	113.6	115.0	115.0	116.4	117.8
65°	73.5	73.5	73.5	74.8	73.5	73.5	73.5	74.8	76.2	74.8	79.0
67.5°	49.9	51.3	54.1	52.6	54.1	51.3	49.9	51.3	51.3	55.4	54.1
70°	40.2	36.0	36.0	40.2	36.0	36.0	40.2	37.4	36.0	38.8	37.4
72.5°	23.6	20.8	23.6	23.6	23.6	20.8	23.6	20.8	22.2	22.2	24.9
75°	12.5	11.1	9.7	13.9	9.7	11.1	12.5	12.5	12.5	12.5	13.9
77.5°	8.3	6.9	9.7	9.7	9.7	6.9	8.3	6.9	8.3	6.9	8.3
80°	4.2	5.5	4.2	6.9	4.2	5.5	4.2	6.9	4.2	5.5	5.5
82.5°	1.4	2.8	2.8	2.8	2.8	2.8	1.4	1.4	2.8	2.8	1.4
85°	0.0	2.8	1.4	1.4	1.4	2.8	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: P245819

CATALOG NUMBER: LD8B50D010 ER8B50827 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7
2.5°	2866.8	2862.7	2864.1	2855.8	2855.8	2853.0	2854.4	2847.4	2844.7	2841.9	2846.1
5°	2908.4	2901.5	2895.9	2883.5	2876.5	2868.2	2864.1	2853.0	2843.3	2834.9	2833.6
7.5°	2941.6	2926.4	2916.7	2900.1	2887.6	2877.9	2864.1	2848.8	2836.4	2825.2	2817.0
10°	2955.5	2940.3	2925.1	2904.2	2890.4	2872.4	2858.5	2839.1	2822.5	2807.3	2797.5
12.5°	2956.9	2937.5	2923.6	2900.1	2882.0	2862.7	2847.4	2825.2	2805.9	2790.6	2775.4
15°	2944.4	2926.4	2909.8	2884.8	2866.8	2848.8	2830.8	2807.3	2789.3	2771.2	2760.2
17.5°	2916.7	2900.1	2880.7	2857.1	2840.5	2823.9	2804.5	2785.1	2764.3	2744.9	2731.0
20°	2880.7	2862.7	2846.1	2822.5	2808.6	2790.6	2772.6	2751.8	2735.2	2715.8	2700.6
22.5°	2826.7	2810.0	2794.8	2780.9	2758.7	2744.9	2732.5	2708.9	2692.2	2674.2	2657.6
25°	2749.0	2732.5	2720.0	2703.3	2693.6	2678.4	2665.9	2645.1	2629.9	2613.3	2599.4
27.5°	2621.6	2611.9	2604.9	2595.2	2587.0	2580.0	2573.1	2556.4	2545.4	2530.2	2516.3
30°	2430.3	2429.0	2424.8	2420.7	2426.2	2426.2	2426.2	2423.4	2413.8	2402.6	2392.9
32.5°	2185.1	2187.9	2193.4	2197.6	2208.7	2221.2	2232.2	2237.7	2237.7	2230.8	2226.7
35°	1892.8	1896.9	1905.2	1916.3	1930.2	1945.4	1970.3	1975.9	1980.0	1980.0	1974.5
37.5°	1589.3	1587.9	1596.2	1605.9	1614.3	1625.3	1643.3	1647.5	1654.4	1651.7	1646.1
40°	1294.1	1287.2	1284.4	1287.2	1296.9	1292.8	1296.9	1294.1	1294.1	1284.4	1284.4
42.5°	1021.2	1012.9	1007.3	1003.2	1003.2	993.5	986.6	979.7	975.5	968.5	967.2
45°	787.1	777.3	770.4	767.6	763.5	751.0	742.7	734.4	724.7	721.9	723.3
47.5°	611.1	601.4	598.6	591.7	584.7	577.8	572.3	562.6	561.1	555.6	561.1
50°	471.1	468.4	464.2	461.4	457.2	451.7	446.2	440.6	437.8	437.8	439.2
52.5°	365.8	367.2	363.0	358.9	356.1	356.1	349.2	347.8	347.8	342.3	347.8
55°	279.9	278.5	279.9	277.1	277.1	273.0	273.0	268.8	268.8	264.6	267.4
57.5°	205.1	207.8	205.1	206.5	209.3	205.1	203.7	199.5	202.3	199.5	200.9
60°	159.4	159.4	159.4	158.0	158.0	156.6	156.6	155.2	155.2	152.4	155.2
62.5°	117.8	119.1	119.1	119.1	120.6	119.1	117.8	119.1	117.8	117.8	119.1
65°	77.6	79.0	79.0	77.6	80.4	77.6	79.0	80.4	81.7	80.4	81.7
67.5°	52.6	52.6	54.1	55.4	54.1	55.4	56.8	55.4	56.8	59.6	56.8
70°	38.8	40.2	40.2	38.8	37.4	38.8	37.4	41.6	41.6	41.6	44.3
72.5°	24.9	24.9	23.6	23.6	23.6	23.6	23.6	27.7	24.9	23.6	26.3
75°	13.9	15.2	15.2	11.1	12.5	15.2	11.1	12.5	16.7	13.9	16.7
77.5°	8.3	8.3	8.3	8.3	8.3	8.3	11.1	9.7	9.7	9.7	11.1
80°	6.9	5.5	5.5	4.2	5.5	5.5	5.5	8.3	6.9	6.9	8.3
82.5°	2.8	2.8	1.4	0.0	2.8	2.8	2.8	2.8	2.8	2.8	5.5
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	2.8	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: P245819

CATALOG NUMBER: LD8B50D010 ER8B50827 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7
2.5°	2834.9	2834.9	2833.6	2830.8	2825.2	2825.2	2823.9	2819.7	2817.0	2815.5	2815.5
5°	2821.1	2815.5	2810.0	2794.8	2794.8	2792.0	2783.7	2778.1	2775.4	2768.4	2765.7
7.5°	2808.6	2792.0	2782.3	2772.6	2760.2	2754.6	2744.9	2740.7	2731.0	2724.1	2720.0
10°	2778.1	2767.1	2754.6	2739.4	2729.7	2718.6	2707.5	2699.2	2686.7	2679.8	2674.2
12.5°	2757.4	2740.7	2729.7	2713.0	2696.4	2686.7	2671.5	2661.8	2649.3	2635.4	2627.1
15°	2738.0	2720.0	2704.7	2686.7	2668.7	2657.6	2639.6	2628.5	2610.5	2596.7	2587.0
17.5°	2708.9	2693.6	2677.0	2654.8	2638.2	2624.4	2604.9	2591.1	2574.5	2556.4	2546.8
20°	2678.4	2660.4	2643.8	2621.6	2604.9	2588.3	2568.9	2553.7	2534.3	2517.7	2506.6
22.5°	2638.2	2617.4	2603.6	2581.4	2562.0	2544.0	2526.0	2508.0	2489.9	2476.1	2463.6
25°	2580.0	2557.8	2542.6	2524.6	2506.6	2492.7	2470.6	2459.5	2441.5	2429.0	2416.5
27.5°	2496.8	2480.3	2466.4	2448.4	2433.1	2422.1	2405.4	2394.4	2379.1	2368.0	2358.3
30°	2375.0	2361.1	2348.6	2330.6	2319.5	2309.8	2294.6	2284.9	2273.8	2261.3	2258.6
32.5°	2211.5	2200.3	2187.9	2175.4	2167.1	2161.6	2149.1	2143.5	2132.5	2125.5	2118.6
35°	1964.8	1955.1	1948.2	1942.7	1939.9	1941.2	1938.5	1944.0	1946.8	1945.4	1946.8
37.5°	1642.0	1636.4	1639.2	1643.3	1657.2	1675.2	1691.8	1716.8	1733.4	1750.1	1765.3
40°	1281.7	1285.9	1296.9	1321.9	1357.9	1398.1	1435.5	1482.6	1529.7	1563.0	1593.4
42.5°	967.2	979.7	1007.3	1043.4	1097.4	1157.0	1215.2	1284.4	1341.3	1396.7	1435.5
45°	727.5	744.1	780.1	830.0	889.5	958.8	1032.3	1109.9	1177.8	1234.6	1277.5
47.5°	566.7	582.0	618.0	670.7	744.1	816.1	892.3	972.7	1043.4	1098.8	1136.2
50°	447.5	466.9	498.8	554.2	627.7	703.9	782.9	861.8	928.4	975.5	1008.7
52.5°	352.0	370.0	400.4	458.7	533.5	609.7	683.1	760.7	818.9	864.6	886.8
55°	273.0	289.6	321.4	370.0	440.6	515.5	588.9	655.4	709.4	742.7	763.5
57.5°	207.8	220.3	242.5	291.0	354.7	424.0	486.4	552.9	594.5	618.0	631.8
60°	158.0	167.7	191.2	228.6	286.8	346.4	399.1	449.0	482.2	501.6	515.5
62.5°	119.1	130.3	146.9	178.7	223.1	271.6	315.9	353.3	381.0	393.5	403.2
65°	81.7	90.1	102.5	127.5	164.9	199.5	234.2	261.9	279.9	293.8	299.3
67.5°	61.0	66.5	73.5	92.8	119.1	146.9	170.4	189.8	209.3	214.8	224.5
70°	45.7	49.9	56.8	70.7	85.9	105.3	124.7	135.8	149.7	159.4	162.1
72.5°	29.1	30.5	37.4	45.7	58.2	70.7	83.2	92.8	101.2	106.7	109.4
75°	16.7	24.9	24.9	33.3	41.6	47.1	55.4	62.3	66.5	70.7	70.7
77.5°	11.1	15.2	16.7	20.8	24.9	31.9	38.8	42.9	47.1	48.5	48.5
80°	9.7	11.1	11.1	15.2	18.0	23.6	27.7	29.1	31.9	33.3	36.0
82.5°	4.2	5.5	6.9	11.1	12.5	12.5	16.7	18.0	20.8	22.2	22.2
85°	1.4	2.8	2.8	4.2	6.9	8.3	9.7	11.1	12.5	12.5	13.9
87.5°	1.4	1.4	0.0	1.4	2.8	2.8	5.5	5.5	5.5	8.3	8.3
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: P245819

CATALOG NUMBER: LD8B50D010 ER8B50827 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7	2837.7
2.5°	2812.8	2814.2	2808.6	2807.3	2804.5	2805.9	2808.6
5°	2761.5	2762.9	2757.4	2751.8	2751.8	2750.4	2751.8
7.5°	2713.0	2714.4	2706.1	2703.3	2697.8	2699.2	2699.2
10°	2664.5	2664.5	2652.1	2650.7	2646.5	2645.1	2645.1
12.5°	2617.4	2613.3	2603.6	2598.0	2600.8	2592.5	2592.5
15°	2575.8	2568.9	2556.4	2552.3	2545.4	2542.6	2542.6
17.5°	2532.9	2527.4	2516.3	2508.0	2499.6	2498.3	2499.6
20°	2491.3	2485.8	2471.9	2466.4	2459.5	2459.5	2456.7
22.5°	2449.7	2444.2	2431.8	2427.6	2417.9	2417.9	2419.3
25°	2406.8	2402.6	2388.8	2386.0	2384.7	2379.1	2381.9
27.5°	2348.6	2345.8	2334.8	2330.6	2325.1	2323.7	2326.4
30°	2241.9	2237.7	2229.5	2225.3	2215.6	2217.0	2219.7
32.5°	2108.9	2103.4	2092.3	2088.1	2079.8	2077.0	2078.4
35°	1942.7	1938.5	1928.8	1928.8	1920.5	1917.7	1920.5
37.5°	1773.6	1777.7	1773.6	1777.7	1773.6	1772.2	1773.6
40°	1614.3	1629.5	1632.2	1647.5	1642.0	1650.3	1648.9
42.5°	1461.8	1486.7	1496.5	1508.9	1506.2	1511.7	1515.9
45°	1308.0	1328.8	1338.5	1346.8	1348.2	1351.0	1352.4
47.5°	1162.5	1179.2	1180.5	1190.2	1188.9	1188.9	1193.0
50°	1026.8	1037.8	1040.6	1047.5	1042.0	1039.2	1040.6
52.5°	900.7	911.7	908.9	911.7	904.8	902.0	903.4
55°	771.8	777.3	777.3	777.3	769.0	769.0	769.0
57.5°	640.1	641.6	638.8	640.1	638.8	630.4	629.1
60°	519.6	519.6	518.2	519.6	515.5	511.3	511.3
62.5°	406.0	408.8	414.3	408.8	406.0	408.8	404.6
65°	303.5	309.0	307.6	310.4	309.0	309.0	306.2
67.5°	228.6	230.0	231.4	232.8	232.8	232.8	232.8
70°	167.7	171.8	170.4	170.4	170.4	170.4	178.7
72.5°	112.2	117.8	116.4	119.1	119.1	121.9	119.1
75°	76.2	81.7	79.0	83.2	81.7	79.0	85.9
77.5°	51.3	54.1	55.4	56.8	55.4	54.1	55.4
80°	36.0	38.8	37.4	38.8	38.8	38.8	40.2
82.5°	22.2	26.3	24.9	26.3	24.9	26.3	26.3
85°	15.2	16.7	13.9	16.7	15.2	15.2	18.0
87.5°	9.7	8.3	8.3	9.7	8.3	9.7	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)