

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: P246029

Luminaire Tested: **LD8B50D010 ER8B50930 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246029
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 ER8B50930 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4498.5 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

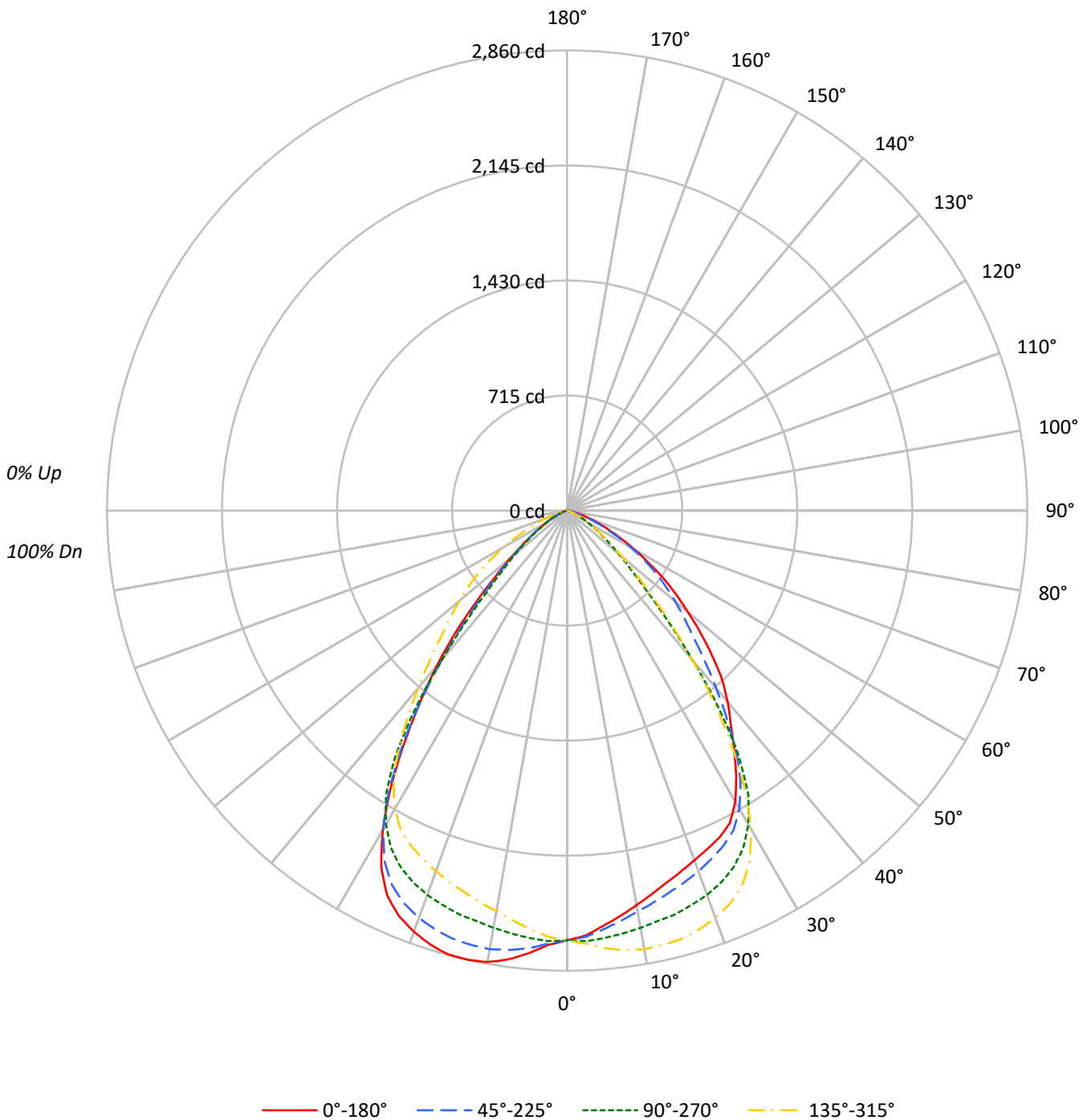
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.2	5.7
10°-20°	736.1	16.4
20°-30°	1114.6	24.8
30°-40°	1117.1	24.8
40°-50°	701.5	15.6
50°-60°	373.8	8.3
60°-70°	153.7	3.4
70°-80°	40.6	0.9
80°-90°	6.9	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°	2104.9	46.8
0°-40°	3222.0	71.6
0°-60°	4297.4	95.5
0°-90°	4498.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4498.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2671	2671	2671	2671	2671	
5°	2590	2667	2762	2667	2590	244
15°	2393	2598	2856	2598	2393	677
25°	2242	2446	2643	2446	2242	1028
35°	1807	1858	1763	1858	1807	1132
45°	1273	681	788	681	1273	979
55°	724	252	266	252	724	645
65°	288	77	70	77	288	299
75°	81	16	13	16	81	92
85°	17	0	1	0	17	19
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°	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7
2.5°	2643.3	2640.6	2639.4	2642.0	2643.3	2648.5	2647.2	2649.8	2649.8	2651.2	2653.7
5°	2589.8	2588.5	2589.8	2589.8	2595.0	2600.3	2598.9	2602.8	2605.4	2612.0	2614.6
7.5°	2540.3	2540.3	2539.0	2544.1	2546.8	2554.6	2553.3	2559.8	2563.7	2570.2	2579.3
10°	2489.4	2489.4	2490.6	2494.6	2495.9	2507.7	2507.7	2516.8	2522.0	2528.5	2540.3
12.5°	2439.9	2439.9	2447.7	2445.0	2450.3	2459.4	2463.3	2472.5	2480.3	2493.3	2505.1
15°	2392.9	2392.9	2395.6	2402.0	2405.9	2417.7	2424.2	2434.7	2443.8	2456.8	2473.8
17.5°	2352.4	2351.2	2352.4	2360.3	2368.1	2378.5	2383.8	2396.8	2405.9	2422.9	2438.6
20°	2312.1	2314.6	2314.6	2321.1	2326.4	2339.4	2344.7	2359.0	2369.5	2385.0	2403.3
22.5°	2276.9	2275.5	2275.5	2284.7	2288.6	2300.3	2305.6	2318.6	2330.3	2343.3	2360.3
25°	2241.7	2239.0	2244.2	2245.6	2248.2	2261.2	2265.1	2274.2	2285.9	2297.7	2314.6
27.5°	2189.4	2186.8	2188.2	2193.3	2197.3	2207.7	2210.4	2219.5	2228.5	2239.0	2253.4
30°	2089.0	2086.4	2085.2	2094.3	2098.2	2106.0	2109.9	2125.6	2128.2	2139.9	2150.3
32.5°	1956.0	1954.7	1957.4	1965.1	1969.0	1979.6	1984.7	1993.9	2000.3	2006.9	2017.4
35°	1807.4	1804.8	1807.4	1815.2	1815.2	1824.3	1828.2	1832.2	1830.8	1832.2	1829.6
37.5°	1669.2	1667.8	1669.2	1673.1	1669.2	1673.1	1669.2	1661.3	1647.0	1631.4	1615.7
40°	1551.8	1553.1	1545.3	1550.6	1536.1	1533.5	1519.2	1499.7	1471.0	1439.7	1395.3
42.5°	1426.6	1422.7	1417.5	1420.1	1408.4	1399.2	1375.8	1351.0	1314.5	1262.4	1208.8
45°	1272.8	1271.4	1268.9	1267.5	1259.7	1250.6	1231.0	1202.3	1161.9	1108.4	1044.5
47.5°	1122.8	1118.9	1118.9	1120.1	1111.0	1109.7	1094.1	1069.3	1034.1	981.9	915.4
50°	979.3	978.0	980.7	985.8	979.3	976.7	966.3	949.4	918.1	873.7	811.0
52.5°	850.2	848.9	851.5	858.0	855.4	858.0	847.6	834.6	813.7	770.7	715.9
55°	723.7	723.7	723.7	731.6	731.6	731.6	726.3	718.6	698.9	667.7	616.9
57.5°	592.0	593.3	601.2	602.4	601.2	603.8	602.4	594.6	581.6	559.5	520.4
60°	481.2	481.2	485.2	489.0	487.7	489.0	489.0	485.2	472.1	453.8	422.5
62.5°	380.8	384.7	382.0	384.7	389.9	384.7	382.0	379.5	370.4	358.6	332.5
65°	288.2	290.8	290.8	292.1	289.4	290.8	285.6	281.7	276.4	263.4	246.5
67.5°	219.2	219.2	219.2	219.2	217.8	216.5	215.2	211.3	202.1	197.0	178.6
70°	168.3	160.4	160.4	160.4	160.4	161.8	157.8	152.6	150.0	140.8	127.8
72.5°	112.1	114.8	112.1	112.1	109.5	110.9	105.6	103.0	100.4	95.2	87.4
75°	80.8	74.3	76.9	78.2	74.3	76.9	71.7	66.5	66.5	62.6	58.6
77.5°	52.1	50.9	52.1	53.5	52.1	50.9	48.2	45.6	45.6	44.4	40.5
80°	37.9	36.5	36.5	36.5	35.2	36.5	34.0	34.0	31.3	30.0	27.4
82.5°	24.8	24.8	23.4	24.8	23.4	24.8	20.9	20.9	20.9	19.5	16.9
85°	16.9	14.3	14.3	15.7	13.0	15.7	14.3	13.0	11.8	11.8	10.4
87.5°	7.8	9.1	7.8	9.1	7.8	7.8	9.1	7.8	7.8	5.2	5.2
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°	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7
2.5°	2657.7	2658.9	2658.9	2664.2	2666.7	2668.0	2668.0	2678.5	2674.6	2677.2	2679.8
5°	2619.8	2627.6	2630.2	2630.2	2644.6	2649.8	2655.0	2666.7	2668.0	2675.8	2685.0
7.5°	2583.2	2592.4	2597.7	2609.4	2618.5	2627.6	2643.3	2651.2	2658.9	2669.3	2681.1
10°	2548.0	2558.6	2569.0	2578.1	2592.4	2604.2	2614.6	2632.8	2642.0	2656.3	2671.9
12.5°	2514.2	2528.5	2537.6	2553.3	2569.0	2579.3	2595.0	2612.0	2626.3	2640.6	2658.9
15°	2484.2	2501.2	2511.6	2528.5	2545.5	2559.8	2576.7	2597.7	2608.1	2625.0	2642.0
17.5°	2451.5	2469.9	2482.9	2498.5	2519.4	2535.0	2549.4	2570.2	2583.2	2601.5	2621.1
20°	2417.7	2435.9	2451.5	2467.2	2488.1	2503.8	2520.7	2541.5	2555.9	2574.2	2589.8
22.5°	2377.3	2394.2	2411.2	2429.4	2450.3	2463.3	2482.9	2501.2	2516.8	2533.7	2549.4
25°	2325.1	2346.0	2359.0	2376.0	2392.9	2407.2	2428.1	2446.4	2459.4	2475.1	2489.4
27.5°	2263.7	2279.4	2289.9	2304.2	2321.1	2334.3	2349.8	2368.1	2381.2	2395.6	2405.9
30°	2159.5	2173.8	2182.9	2193.3	2210.4	2222.0	2235.2	2252.1	2261.2	2271.6	2280.8
32.5°	2022.5	2034.3	2039.5	2047.3	2059.1	2070.8	2081.2	2095.6	2099.5	2106.0	2106.0
35°	1824.3	1826.9	1825.7	1828.2	1833.5	1840.0	1849.1	1858.3	1863.4	1863.4	1859.6
37.5°	1592.3	1576.6	1559.6	1546.6	1542.7	1540.0	1545.3	1549.2	1554.4	1557.0	1550.6
40°	1351.0	1315.8	1277.9	1244.0	1220.5	1210.1	1206.2	1208.8	1208.8	1218.0	1218.0
42.5°	1143.6	1088.8	1032.8	981.9	948.0	922.0	910.3	910.3	911.5	918.1	922.0
45°	971.6	902.4	837.2	781.1	734.1	700.3	684.6	680.7	679.4	682.0	691.1
47.5°	839.9	768.1	700.3	631.1	581.6	547.7	533.4	528.1	522.9	528.1	529.4
50°	736.8	662.5	590.8	521.6	469.5	439.4	421.2	413.3	412.1	412.1	414.7
52.5°	642.9	573.8	502.1	431.7	376.9	348.2	331.3	327.3	322.1	327.3	327.3
55°	554.2	485.2	414.7	348.2	302.6	272.5	256.9	251.7	249.1	253.0	253.0
57.5°	457.7	399.1	333.8	273.9	228.2	207.4	195.6	189.1	187.8	190.3	187.8
60°	375.5	326.0	269.9	215.2	179.9	157.8	148.6	146.1	143.4	146.1	146.1
62.5°	297.3	255.6	210.0	168.3	138.2	122.6	112.1	112.1	110.9	110.9	112.1
65°	220.4	187.8	155.1	119.9	96.5	84.7	76.9	76.9	75.7	76.9	75.7
67.5°	160.4	138.2	112.1	87.4	69.2	62.6	57.4	53.5	56.0	53.5	52.1
70°	117.4	99.1	80.8	66.5	53.5	47.0	43.0	41.7	39.1	39.1	39.1
72.5°	78.2	66.5	54.7	43.0	35.2	28.7	27.4	24.8	22.2	23.4	26.1
75°	52.1	44.4	39.1	31.3	23.4	23.4	15.7	15.7	13.0	15.7	11.8
77.5°	36.5	30.0	23.4	19.5	15.7	14.3	10.4	10.4	9.1	9.1	9.1
80°	26.1	22.2	16.9	14.3	10.4	10.4	9.1	7.8	6.5	6.5	7.8
82.5°	15.7	11.8	11.8	10.4	6.5	5.2	3.9	5.2	2.6	2.6	2.6
85°	9.1	7.8	6.5	3.9	2.6	2.6	1.2	0.0	1.2	1.2	0.0
87.5°	5.2	2.6	2.6	1.2	0.0	1.2	1.2	0.0	0.0	0.0	2.6
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°	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7
2.5°	2686.4	2685.0	2687.6	2687.6	2695.4	2694.1	2698.0	2698.0	2695.4	2696.8	2701.9
5°	2695.4	2699.4	2707.2	2713.7	2725.4	2730.6	2737.1	2743.8	2745.0	2748.9	2752.8
7.5°	2695.4	2708.4	2717.6	2729.3	2745.0	2754.1	2768.4	2780.2	2785.5	2792.0	2799.7
10°	2690.2	2703.3	2720.2	2733.2	2752.8	2767.2	2781.5	2799.7	2807.5	2818.0	2828.5
12.5°	2679.8	2694.1	2712.4	2729.3	2751.5	2764.5	2782.8	2799.7	2811.5	2825.8	2837.6
15°	2664.2	2681.1	2698.0	2714.9	2738.5	2754.1	2771.1	2790.6	2802.4	2818.0	2828.5
17.5°	2639.4	2657.7	2673.2	2688.9	2711.0	2729.3	2745.0	2763.3	2775.0	2788.0	2802.4
20°	2609.4	2626.3	2643.3	2656.3	2678.5	2694.1	2711.0	2728.1	2737.1	2739.8	2761.9
22.5°	2571.6	2583.2	2596.3	2617.2	2630.2	2644.6	2660.2	2675.8	2685.0	2699.4	2707.2
25°	2508.9	2520.7	2535.0	2544.1	2559.8	2571.6	2587.2	2604.2	2609.4	2619.8	2627.6
27.5°	2421.6	2428.1	2434.7	2442.4	2451.5	2458.1	2467.2	2475.1	2480.3	2485.5	2490.6
30°	2283.4	2283.4	2283.4	2278.1	2282.0	2285.9	2287.3	2285.9	2285.9	2284.7	2284.7
32.5°	2100.8	2090.3	2078.7	2068.2	2064.3	2059.1	2056.5	2052.6	2046.0	2042.1	2043.4
35°	1854.4	1830.8	1816.6	1803.5	1793.0	1785.2	1781.3	1777.3	1776.1	1771.0	1765.7
37.5°	1546.6	1529.6	1519.2	1511.3	1502.3	1494.4	1495.8	1497.1	1500.9	1498.3	1499.7
40°	1220.5	1216.6	1220.5	1211.5	1208.8	1211.5	1218.0	1227.2	1232.3	1237.6	1246.7
42.5°	928.5	934.9	944.1	944.1	948.0	953.3	961.0	975.5	983.2	992.3	1002.8
45°	698.9	706.8	718.6	722.4	725.1	731.6	740.8	752.4	757.6	765.4	774.6
47.5°	538.5	543.8	550.3	556.8	563.3	566.0	575.1	575.1	581.6	586.8	589.4
50°	419.9	425.1	430.4	434.3	436.9	440.8	443.4	447.3	448.5	451.2	452.4
52.5°	328.6	335.2	335.2	337.8	341.7	345.6	344.3	345.6	346.8	346.8	350.8
55°	256.9	256.9	260.9	260.9	263.4	262.1	263.4	263.4	263.4	263.4	264.8
57.5°	191.7	193.0	197.0	194.3	193.0	195.6	193.0	195.6	194.3	197.0	193.0
60°	147.3	147.3	148.6	148.6	150.0	150.0	150.0	148.6	148.6	147.3	147.3
62.5°	110.9	112.1	113.4	112.1	112.1	112.1	110.9	110.9	109.5	108.2	108.2
65°	74.3	73.1	75.7	73.1	74.3	74.3	73.1	74.3	70.4	71.7	70.4
67.5°	53.5	52.1	50.9	52.1	50.9	49.5	49.5	50.9	52.1	48.2	48.2
70°	35.2	36.5	35.2	36.5	37.9	37.9	36.5	35.2	36.5	34.0	35.2
72.5°	22.2	22.2	22.2	22.2	22.2	23.4	23.4	23.4	20.9	20.9	19.5
75°	10.4	14.3	11.8	10.4	14.3	14.3	13.0	13.0	11.8	11.8	11.8
77.5°	10.4	7.8	7.8	7.8	7.8	7.8	7.8	7.8	6.5	7.8	6.5
80°	5.2	5.2	5.2	3.9	5.2	5.2	6.5	5.2	5.2	3.9	6.5
82.5°	2.6	2.6	2.6	0.0	1.2	2.6	2.6	1.2	2.6	2.6	1.2
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: P246029

CATALOG NUMBER: LD8B50D010 ER8B50930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7
2.5°	2700.7	2699.4	2700.7	2701.9	2700.7	2699.4	2700.7	2701.9	2696.8	2695.4	2698.0
5°	2758.0	2758.0	2760.6	2761.9	2760.6	2758.0	2758.0	2752.8	2748.9	2745.0	2743.8
7.5°	2807.5	2810.2	2812.8	2814.0	2812.8	2810.2	2807.5	2799.7	2792.0	2785.5	2780.2
10°	2837.6	2841.5	2846.7	2849.2	2846.7	2841.5	2837.6	2828.5	2818.0	2807.5	2799.7
12.5°	2850.6	2854.5	2861.0	2859.8	2861.0	2854.5	2850.6	2837.6	2825.8	2811.5	2799.7
15°	2841.5	2846.7	2853.2	2855.9	2853.2	2846.7	2841.5	2828.5	2818.0	2802.4	2790.6
17.5°	2812.8	2820.7	2824.6	2828.5	2824.6	2820.7	2812.8	2802.4	2788.0	2775.0	2763.3
20°	2773.7	2779.0	2784.1	2785.5	2784.1	2779.0	2773.7	2761.9	2739.8	2737.1	2728.1
22.5°	2717.6	2721.6	2733.2	2729.3	2733.2	2721.6	2717.6	2707.2	2699.4	2685.0	2675.8
25°	2636.7	2640.6	2642.0	2643.3	2642.0	2640.6	2636.7	2627.6	2619.8	2609.4	2604.2
27.5°	2497.3	2497.3	2499.8	2501.2	2499.8	2497.3	2497.3	2490.6	2485.5	2480.3	2475.1
30°	2285.9	2285.9	2285.9	2292.6	2285.9	2285.9	2285.9	2284.7	2284.7	2285.9	2285.9
32.5°	2042.1	2039.5	2037.0	2039.5	2037.0	2039.5	2042.1	2043.4	2042.1	2046.0	2052.6
35°	1765.7	1764.3	1768.3	1763.1	1768.3	1764.3	1765.7	1765.7	1771.0	1776.1	1777.3
37.5°	1500.9	1498.3	1503.6	1498.3	1503.6	1498.3	1500.9	1499.7	1498.3	1500.9	1497.1
40°	1249.2	1251.8	1251.8	1262.4	1251.8	1251.8	1249.2	1246.7	1237.6	1232.3	1227.2
42.5°	1008.0	1015.9	1013.3	1021.0	1013.3	1015.9	1008.0	1002.8	992.3	983.2	975.5
45°	779.8	785.0	785.0	787.6	785.0	785.0	779.8	774.6	765.4	757.6	752.4
47.5°	598.5	598.5	598.5	599.8	598.5	598.5	598.5	589.4	586.8	581.6	575.1
50°	455.1	456.4	457.7	459.0	457.7	456.4	455.1	452.4	451.2	448.5	447.3
52.5°	349.5	350.8	348.2	350.8	348.2	350.8	349.5	350.8	346.8	346.8	345.6
55°	264.8	263.4	264.8	266.0	264.8	263.4	264.8	264.8	263.4	263.4	263.4
57.5°	194.3	191.7	191.7	191.7	191.7	191.7	194.3	193.0	197.0	194.3	195.6
60°	144.7	146.1	146.1	147.3	146.1	146.1	144.7	147.3	147.3	148.6	148.6
62.5°	106.9	110.9	108.2	110.9	108.2	110.9	106.9	108.2	108.2	109.5	110.9
65°	69.2	69.2	69.2	70.4	69.2	69.2	69.2	70.4	71.7	70.4	74.3
67.5°	47.0	48.2	50.9	49.5	50.9	48.2	47.0	48.2	48.2	52.1	50.9
70°	37.9	34.0	34.0	37.9	34.0	34.0	37.9	35.2	34.0	36.5	35.2
72.5°	22.2	19.5	22.2	22.2	22.2	19.5	22.2	19.5	20.9	20.9	23.4
75°	11.8	10.4	9.1	13.0	9.1	10.4	11.8	11.8	11.8	11.8	13.0
77.5°	7.8	6.5	9.1	9.1	9.1	6.5	7.8	6.5	7.8	6.5	7.8
80°	3.9	5.2	3.9	6.5	3.9	5.2	3.9	6.5	3.9	5.2	5.2
82.5°	1.2	2.6	2.6	2.6	2.6	2.6	1.2	1.2	2.6	2.6	1.2
85°	0.0	2.6	1.2	1.2	1.2	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.0	0.0	1.2	0.0	0.0	1.2	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: P246029

CATALOG NUMBER: LD8B50D010 ER8B50930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7
2.5°	2698.0	2694.1	2695.4	2687.6	2687.6	2685.0	2686.4	2679.8	2677.2	2674.6	2678.5
5°	2737.1	2730.6	2725.4	2713.7	2707.2	2699.4	2695.4	2685.0	2675.8	2668.0	2666.7
7.5°	2768.4	2754.1	2745.0	2729.3	2717.6	2708.4	2695.4	2681.1	2669.3	2658.9	2651.2
10°	2781.5	2767.2	2752.8	2733.2	2720.2	2703.3	2690.2	2671.9	2656.3	2642.0	2632.8
12.5°	2782.8	2764.5	2751.5	2729.3	2712.4	2694.1	2679.8	2658.9	2640.6	2626.3	2612.0
15°	2771.1	2754.1	2738.5	2714.9	2698.0	2681.1	2664.2	2642.0	2625.0	2608.1	2597.7
17.5°	2745.0	2729.3	2711.0	2688.9	2673.2	2657.7	2639.4	2621.1	2601.5	2583.2	2570.2
20°	2711.0	2694.1	2678.5	2656.3	2643.3	2626.3	2609.4	2589.8	2574.2	2555.9	2541.5
22.5°	2660.2	2644.6	2630.2	2617.2	2596.3	2583.2	2571.6	2549.4	2533.7	2516.8	2501.2
25°	2587.2	2571.6	2559.8	2544.1	2535.0	2520.7	2508.9	2489.4	2475.1	2459.4	2446.4
27.5°	2467.2	2458.1	2451.5	2442.4	2434.7	2428.1	2421.6	2405.9	2395.6	2381.2	2368.1
30°	2287.3	2285.9	2282.0	2278.1	2283.4	2283.4	2283.4	2280.8	2271.6	2261.2	2252.1
32.5°	2056.5	2059.1	2064.3	2068.2	2078.7	2090.3	2100.8	2106.0	2106.0	2099.5	2095.6
35°	1781.3	1785.2	1793.0	1803.5	1816.6	1830.8	1854.4	1859.6	1863.4	1863.4	1858.3
37.5°	1495.8	1494.4	1502.3	1511.3	1519.2	1529.6	1546.6	1550.6	1557.0	1554.4	1549.2
40°	1218.0	1211.5	1208.8	1211.5	1220.5	1216.6	1220.5	1218.0	1218.0	1208.8	1208.8
42.5°	961.0	953.3	948.0	944.1	944.1	934.9	928.5	922.0	918.1	911.5	910.3
45°	740.8	731.6	725.1	722.4	718.6	706.8	698.9	691.1	682.0	679.4	680.7
47.5°	575.1	566.0	563.3	556.8	550.3	543.8	538.5	529.4	528.1	522.9	528.1
50°	443.4	440.8	436.9	434.3	430.4	425.1	419.9	414.7	412.1	412.1	413.3
52.5°	344.3	345.6	341.7	337.8	335.2	335.2	328.6	327.3	327.3	322.1	327.3
55°	263.4	262.1	263.4	260.9	260.9	256.9	256.9	253.0	253.0	249.1	251.7
57.5°	193.0	195.6	193.0	194.3	197.0	193.0	191.7	187.8	190.3	187.8	189.1
60°	150.0	150.0	150.0	148.6	148.6	147.3	147.3	146.1	146.1	143.4	146.1
62.5°	110.9	112.1	112.1	112.1	113.4	112.1	110.9	112.1	110.9	110.9	112.1
65°	73.1	74.3	74.3	73.1	75.7	73.1	74.3	75.7	76.9	75.7	76.9
67.5°	49.5	49.5	50.9	52.1	50.9	52.1	53.5	52.1	53.5	56.0	53.5
70°	36.5	37.9	37.9	36.5	35.2	36.5	35.2	39.1	39.1	39.1	41.7
72.5°	23.4	23.4	22.2	22.2	22.2	22.2	22.2	26.1	23.4	22.2	24.8
75°	13.0	14.3	14.3	10.4	11.8	14.3	10.4	11.8	15.7	13.0	15.7
77.5°	7.8	7.8	7.8	7.8	7.8	7.8	10.4	9.1	9.1	9.1	10.4
80°	6.5	5.2	5.2	3.9	5.2	5.2	5.2	7.8	6.5	6.5	7.8
82.5°	2.6	2.6	1.2	0.0	2.6	2.6	2.6	2.6	2.6	2.6	5.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	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: P246029

CATALOG NUMBER: LD8B50D010 ER8B50930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7
2.5°	2668.0	2668.0	2666.7	2664.2	2658.9	2658.9	2657.7	2653.7	2651.2	2649.8	2649.8
5°	2655.0	2649.8	2644.6	2630.2	2630.2	2627.6	2619.8	2614.6	2612.0	2605.4	2602.8
7.5°	2643.3	2627.6	2618.5	2609.4	2597.7	2592.4	2583.2	2579.3	2570.2	2563.7	2559.8
10°	2614.6	2604.2	2592.4	2578.1	2569.0	2558.6	2548.0	2540.3	2528.5	2522.0	2516.8
12.5°	2595.0	2579.3	2569.0	2553.3	2537.6	2528.5	2514.2	2505.1	2493.3	2480.3	2472.5
15°	2576.7	2559.8	2545.5	2528.5	2511.6	2501.2	2484.2	2473.8	2456.8	2443.8	2434.7
17.5°	2549.4	2535.0	2519.4	2498.5	2482.9	2469.9	2451.5	2438.6	2422.9	2405.9	2396.8
20°	2520.7	2503.8	2488.1	2467.2	2451.5	2435.9	2417.7	2403.3	2385.0	2369.5	2359.0
22.5°	2482.9	2463.3	2450.3	2429.4	2411.2	2394.2	2377.3	2360.3	2343.3	2330.3	2318.6
25°	2428.1	2407.2	2392.9	2376.0	2359.0	2346.0	2325.1	2314.6	2297.7	2285.9	2274.2
27.5°	2349.8	2334.3	2321.1	2304.2	2289.9	2279.4	2263.7	2253.4	2239.0	2228.5	2219.5
30°	2235.2	2222.0	2210.4	2193.3	2182.9	2173.8	2159.5	2150.3	2139.9	2128.2	2125.6
32.5°	2081.2	2070.8	2059.1	2047.3	2039.5	2034.3	2022.5	2017.4	2006.9	2000.3	1993.9
35°	1849.1	1840.0	1833.5	1828.2	1825.7	1826.9	1824.3	1829.6	1832.2	1830.8	1832.2
37.5°	1545.3	1540.0	1542.7	1546.6	1559.6	1576.6	1592.3	1615.7	1631.4	1647.0	1661.3
40°	1206.2	1210.1	1220.5	1244.0	1277.9	1315.8	1351.0	1395.3	1439.7	1471.0	1499.7
42.5°	910.3	922.0	948.0	981.9	1032.8	1088.8	1143.6	1208.8	1262.4	1314.5	1351.0
45°	684.6	700.3	734.1	781.1	837.2	902.4	971.6	1044.5	1108.4	1161.9	1202.3
47.5°	533.4	547.7	581.6	631.1	700.3	768.1	839.9	915.4	981.9	1034.1	1069.3
50°	421.2	439.4	469.5	521.6	590.8	662.5	736.8	811.0	873.7	918.1	949.4
52.5°	331.3	348.2	376.9	431.7	502.1	573.8	642.9	715.9	770.7	813.7	834.6
55°	256.9	272.5	302.6	348.2	414.7	485.2	554.2	616.9	667.7	698.9	718.6
57.5°	195.6	207.4	228.2	273.9	333.8	399.1	457.7	520.4	559.5	581.6	594.6
60°	148.6	157.8	179.9	215.2	269.9	326.0	375.5	422.5	453.8	472.1	485.2
62.5°	112.1	122.6	138.2	168.3	210.0	255.6	297.3	332.5	358.6	370.4	379.5
65°	76.9	84.7	96.5	119.9	155.1	187.8	220.4	246.5	263.4	276.4	281.7
67.5°	57.4	62.6	69.2	87.4	112.1	138.2	160.4	178.6	197.0	202.1	211.3
70°	43.0	47.0	53.5	66.5	80.8	99.1	117.4	127.8	140.8	150.0	152.6
72.5°	27.4	28.7	35.2	43.0	54.7	66.5	78.2	87.4	95.2	100.4	103.0
75°	15.7	23.4	23.4	31.3	39.1	44.4	52.1	58.6	62.6	66.5	66.5
77.5°	10.4	14.3	15.7	19.5	23.4	30.0	36.5	40.5	44.4	45.6	45.6
80°	9.1	10.4	10.4	14.3	16.9	22.2	26.1	27.4	30.0	31.3	34.0
82.5°	3.9	5.2	6.5	10.4	11.8	11.8	15.7	16.9	19.5	20.9	20.9
85°	1.2	2.6	2.6	3.9	6.5	7.8	9.1	10.4	11.8	11.8	13.0
87.5°	1.2	1.2	0.0	1.2	2.6	2.6	5.2	5.2	5.2	7.8	7.8
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: P246029

CATALOG NUMBER: LD8B50D010 ER8B50930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7
2.5°	2647.2	2648.5	2643.3	2642.0	2639.4	2640.6	2643.3
5°	2598.9	2600.3	2595.0	2589.8	2589.8	2588.5	2589.8
7.5°	2553.3	2554.6	2546.8	2544.1	2539.0	2540.3	2540.3
10°	2507.7	2507.7	2495.9	2494.6	2490.6	2489.4	2489.4
12.5°	2463.3	2459.4	2450.3	2445.0	2447.7	2439.9	2439.9
15°	2424.2	2417.7	2405.9	2402.0	2395.6	2392.9	2392.9
17.5°	2383.8	2378.5	2368.1	2360.3	2352.4	2351.2	2352.4
20°	2344.7	2339.4	2326.4	2321.1	2314.6	2314.6	2312.1
22.5°	2305.6	2300.3	2288.6	2284.7	2275.5	2275.5	2276.9
25°	2265.1	2261.2	2248.2	2245.6	2244.2	2239.0	2241.7
27.5°	2210.4	2207.7	2197.3	2193.3	2188.2	2186.8	2189.4
30°	2109.9	2106.0	2098.2	2094.3	2085.2	2086.4	2089.0
32.5°	1984.7	1979.6	1969.0	1965.1	1957.4	1954.7	1956.0
35°	1828.2	1824.3	1815.2	1815.2	1807.4	1804.8	1807.4
37.5°	1669.2	1673.1	1669.2	1673.1	1669.2	1667.8	1669.2
40°	1519.2	1533.5	1536.1	1550.6	1545.3	1553.1	1551.8
42.5°	1375.8	1399.2	1408.4	1420.1	1417.5	1422.7	1426.6
45°	1231.0	1250.6	1259.7	1267.5	1268.9	1271.4	1272.8
47.5°	1094.1	1109.7	1111.0	1120.1	1118.9	1118.9	1122.8
50°	966.3	976.7	979.3	985.8	980.7	978.0	979.3
52.5°	847.6	858.0	855.4	858.0	851.5	848.9	850.2
55°	726.3	731.6	731.6	731.6	723.7	723.7	723.7
57.5°	602.4	603.8	601.2	602.4	601.2	593.3	592.0
60°	489.0	489.0	487.7	489.0	485.2	481.2	481.2
62.5°	382.0	384.7	389.9	384.7	382.0	384.7	380.8
65°	285.6	290.8	289.4	292.1	290.8	290.8	288.2
67.5°	215.2	216.5	217.8	219.2	219.2	219.2	219.2
70°	157.8	161.8	160.4	160.4	160.4	160.4	168.3
72.5°	105.6	110.9	109.5	112.1	112.1	114.8	112.1
75°	71.7	76.9	74.3	78.2	76.9	74.3	80.8
77.5°	48.2	50.9	52.1	53.5	52.1	50.9	52.1
80°	34.0	36.5	35.2	36.5	36.5	36.5	37.9
82.5°	20.9	24.8	23.4	24.8	23.4	24.8	24.8
85°	14.3	15.7	13.0	15.7	14.3	14.3	16.9
87.5°	9.1	7.8	7.8	9.1	7.8	9.1	7.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)