

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: P244589

Luminaire Tested: **LD8B50D010 ER8B50930 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244589
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 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4546.8 lumens
Efficiency: N/A
Efficacy: 85.8 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

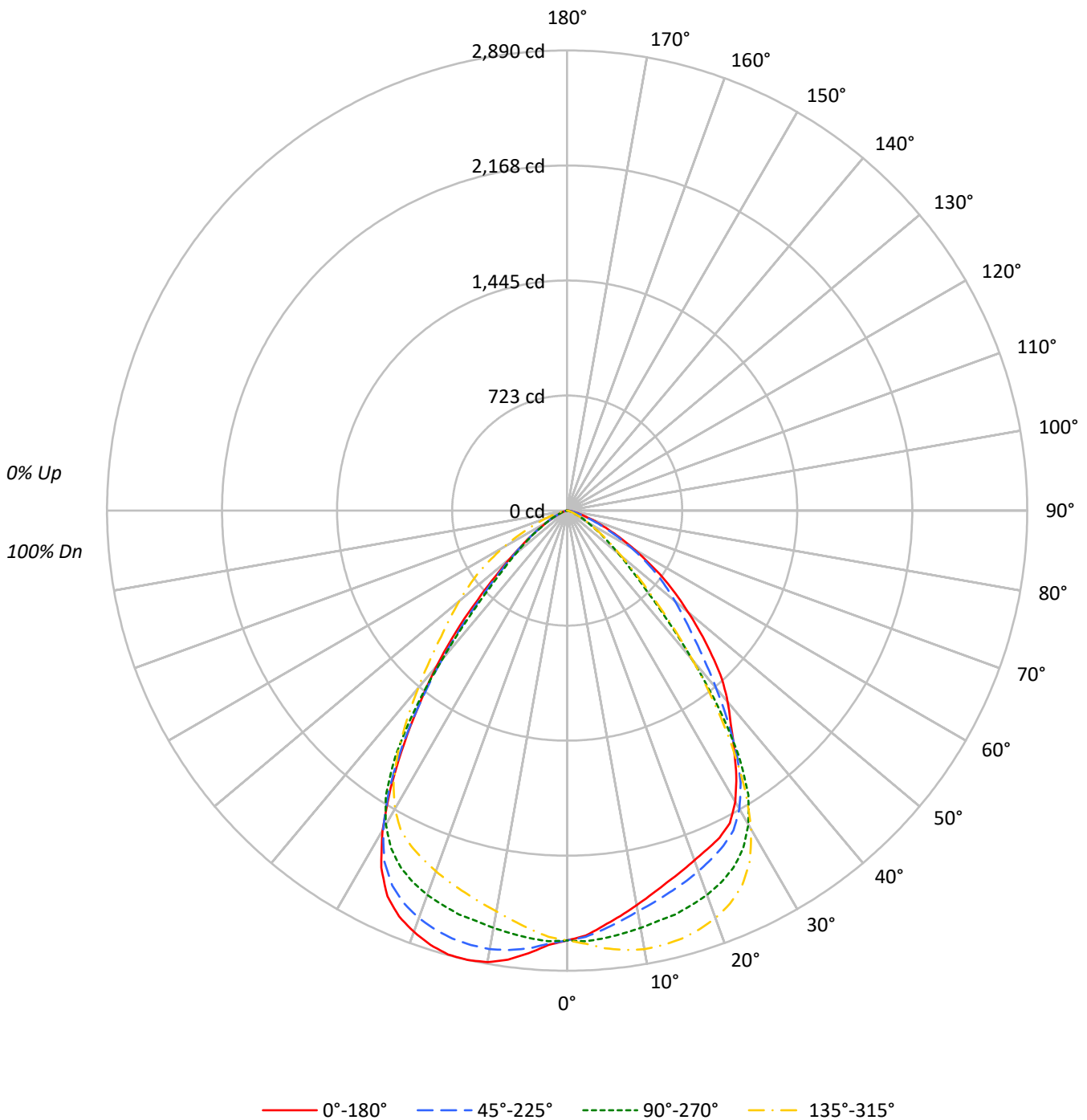
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	256.9	5.7
10°-20°	744.0	16.4
20°-30°	1126.6	24.8
30°-40°	1129.1	24.8
40°-50°	709.0	15.6
50°-60°	377.8	8.3
60°-70°	155.4	3.4
70°-80°	41.0	0.9
80°-90°	7.0	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°	2127.5	46.8
0°-40°	3256.6	71.6
0°-60°	4343.4	95.5
0°-90°	4546.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4546.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2699	2699	2699	2699	2699	
5°	2618	2695	2792	2695	2618	247
15°	2419	2626	2886	2626	2419	684
25°	2266	2473	2672	2473	2266	1039
35°	1827	1878	1782	1878	1827	1144
45°	1286	688	796	688	1286	989
55°	732	254	269	254	732	652
65°	291	78	71	78	291	302
75°	82	16	13	16	82	93
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°	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3
2.5°	2671.6	2669.0	2667.6	2670.3	2671.6	2676.8	2675.6	2678.2	2678.2	2679.5	2682.1
5°	2617.5	2616.2	2617.5	2617.5	2622.8	2628.1	2626.8	2630.8	2633.3	2640.0	2642.5
7.5°	2567.5	2567.5	2566.2	2571.5	2574.0	2582.0	2580.7	2587.3	2591.2	2597.8	2607.0
10°	2516.1	2516.1	2517.4	2521.4	2522.7	2534.5	2534.5	2543.8	2549.0	2555.7	2567.5
12.5°	2466.0	2466.0	2473.9	2471.2	2476.5	2485.7	2489.7	2498.9	2506.9	2520.0	2531.9
15°	2418.6	2418.6	2421.1	2427.7	2431.7	2443.6	2450.2	2460.7	2470.0	2483.1	2500.3
17.5°	2377.6	2376.4	2377.6	2385.6	2393.6	2404.1	2409.3	2422.5	2431.7	2448.8	2464.7
20°	2336.8	2339.5	2339.5	2346.0	2351.3	2364.5	2369.8	2384.3	2394.8	2410.6	2429.1
22.5°	2301.2	2300.0	2300.0	2309.1	2313.1	2325.0	2330.2	2343.5	2355.2	2368.4	2385.6
25°	2265.7	2263.0	2268.3	2269.6	2272.3	2285.4	2289.3	2298.6	2310.5	2322.4	2339.5
27.5°	2213.0	2210.3	2211.6	2216.9	2220.8	2231.4	2234.0	2243.2	2252.4	2263.0	2277.5
30°	2111.4	2108.8	2107.5	2116.8	2120.7	2128.6	2132.5	2148.4	2151.0	2162.9	2173.4
32.5°	1977.0	1975.7	1978.3	1986.2	1990.2	2000.8	2006.0	2015.2	2021.8	2028.4	2039.0
35°	1826.8	1824.1	1826.8	1834.7	1834.7	1843.9	1847.9	1851.8	1850.4	1851.8	1849.2
37.5°	1687.1	1685.8	1687.1	1691.0	1687.1	1691.0	1687.1	1679.1	1664.7	1648.9	1633.0
40°	1568.4	1569.7	1561.9	1567.2	1552.6	1550.0	1535.5	1515.7	1486.8	1455.1	1410.3
42.5°	1441.9	1437.9	1432.8	1435.3	1423.4	1414.1	1390.5	1365.5	1328.5	1275.8	1221.8
45°	1286.3	1285.1	1282.4	1281.1	1273.2	1263.9	1244.2	1215.2	1174.4	1120.3	1055.8
47.5°	1134.8	1130.9	1130.9	1132.1	1122.9	1121.7	1105.8	1080.8	1045.2	992.4	925.3
50°	989.8	988.5	991.2	996.5	989.8	987.2	976.6	959.6	927.9	883.1	819.8
52.5°	859.4	858.0	860.7	867.2	864.6	867.2	856.7	843.6	822.5	778.9	723.6
55°	731.6	731.6	731.6	739.4	739.4	739.4	734.1	726.3	706.5	674.8	623.5
57.5°	598.4	599.7	607.6	608.9	607.6	610.3	608.9	601.0	587.9	565.4	525.9
60°	486.4	486.4	490.3	494.2	492.9	494.2	494.2	490.3	477.1	458.7	427.1
62.5°	384.8	388.8	386.2	388.8	394.0	388.8	386.2	383.5	374.3	362.4	336.1
65°	291.2	293.9	293.9	295.3	292.6	293.9	288.7	284.7	279.5	266.2	249.1
67.5°	221.4	221.4	221.4	221.4	220.1	218.8	217.5	213.6	204.4	199.1	180.6
70°	170.1	162.1	162.1	162.1	162.1	163.4	159.5	154.2	151.6	142.4	129.1
72.5°	113.3	116.0	113.3	113.3	110.8	112.0	106.7	104.1	101.5	96.3	88.3
75°	81.7	75.1	77.7	79.1	75.1	77.7	72.5	67.3	67.3	63.2	59.3
77.5°	52.7	51.5	52.7	54.0	52.7	51.5	48.8	46.1	46.1	44.8	40.8
80°	38.2	36.9	36.9	36.9	35.5	36.9	34.3	34.3	31.6	30.4	27.7
82.5°	25.1	25.1	23.7	25.1	23.7	25.1	21.1	21.1	21.1	19.7	17.2
85°	17.2	14.5	14.5	15.8	13.2	15.8	14.5	13.2	11.9	11.9	10.5
87.5°	8.0	9.2	8.0	9.2	8.0	8.0	9.2	8.0	8.0	5.3	5.3
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°	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3
2.5°	2686.1	2687.4	2687.4	2692.8	2695.3	2696.6	2696.6	2707.2	2703.3	2705.9	2708.4
5°	2647.9	2655.8	2658.5	2658.5	2672.9	2678.2	2683.4	2695.3	2696.6	2704.5	2713.7
7.5°	2610.9	2620.2	2625.5	2637.4	2646.6	2655.8	2671.6	2679.5	2687.4	2698.0	2709.8
10°	2575.4	2585.9	2596.5	2605.7	2620.2	2632.1	2642.5	2661.0	2670.3	2684.8	2700.6
12.5°	2541.1	2555.7	2564.8	2580.7	2596.5	2607.0	2622.8	2640.0	2654.4	2669.0	2687.4
15°	2510.8	2528.0	2538.5	2555.7	2572.8	2587.3	2604.4	2625.5	2636.0	2653.2	2670.3
17.5°	2477.9	2496.4	2509.5	2525.3	2546.4	2562.2	2576.7	2597.8	2610.9	2629.4	2649.3
20°	2443.6	2462.1	2477.9	2493.7	2514.7	2530.5	2547.7	2568.8	2583.3	2601.7	2617.5
22.5°	2402.8	2419.9	2436.9	2455.4	2476.5	2489.7	2509.5	2528.0	2543.8	2560.9	2576.7
25°	2350.1	2371.1	2384.3	2401.4	2418.6	2433.0	2454.1	2472.6	2485.7	2501.6	2516.1
27.5°	2288.1	2303.9	2314.4	2328.9	2346.0	2359.3	2375.1	2393.6	2406.7	2421.1	2431.7
30°	2182.6	2197.2	2206.4	2216.9	2234.0	2245.9	2259.0	2276.2	2285.4	2296.0	2305.2
32.5°	2044.3	2056.1	2061.3	2069.3	2081.1	2093.0	2103.6	2118.0	2122.1	2128.6	2128.6
35°	1843.9	1846.5	1845.2	1847.9	1853.1	1859.7	1868.9	1878.1	1883.4	1883.4	1879.5
37.5°	1609.3	1593.5	1576.4	1563.1	1559.2	1556.5	1561.9	1565.8	1571.1	1573.7	1567.2
40°	1365.5	1329.8	1291.6	1257.3	1233.7	1223.1	1219.2	1221.8	1221.8	1231.0	1231.0
42.5°	1155.9	1100.5	1043.9	992.4	958.1	931.9	920.0	920.0	921.2	927.9	931.9
45°	981.9	912.0	846.1	789.5	742.0	707.8	692.0	688.0	686.7	689.3	698.5
47.5°	848.8	776.3	707.8	638.0	587.9	553.5	539.1	533.8	528.6	533.8	535.2
50°	744.7	669.6	597.0	527.2	474.5	444.1	425.8	417.8	416.5	416.5	419.1
52.5°	649.7	579.9	507.5	436.3	380.9	351.9	334.7	330.8	325.5	330.8	330.8
55°	560.2	490.3	419.1	351.9	305.8	275.4	259.6	254.4	251.8	255.7	255.7
57.5°	462.6	403.3	337.4	276.8	230.7	209.5	197.6	191.1	189.8	192.5	189.8
60°	379.6	329.5	272.9	217.5	181.9	159.5	150.3	147.6	144.9	147.6	147.6
62.5°	300.5	258.4	212.2	170.1	139.7	123.9	113.3	113.3	112.0	112.0	113.3
65°	222.7	189.8	156.8	121.3	97.5	85.6	77.7	77.7	76.5	77.7	76.5
67.5°	162.1	139.7	113.3	88.3	69.8	63.2	58.0	54.0	56.7	54.0	52.7
70°	118.6	100.1	81.7	67.3	54.0	47.4	43.5	42.1	39.6	39.6	39.6
72.5°	79.1	67.3	55.4	43.5	35.5	28.9	27.7	25.1	22.4	23.7	26.3
75°	52.7	44.8	39.6	31.6	23.7	23.7	15.8	15.8	13.2	15.8	11.9
77.5°	36.9	30.4	23.7	19.7	15.8	14.5	10.5	10.5	9.2	9.2	9.2
80°	26.3	22.4	17.2	14.5	10.5	10.5	9.2	8.0	6.6	6.6	8.0
82.5°	15.8	11.9	11.9	10.5	6.6	5.3	3.9	5.3	2.7	2.7	2.7
85°	9.2	8.0	6.6	3.9	2.7	2.7	1.3	0.0	1.3	1.3	0.0
87.5°	5.3	2.7	2.7	1.3	0.0	1.3	1.3	0.0	0.0	0.0	2.7
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°	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3
2.5°	2715.1	2713.7	2716.4	2716.4	2724.4	2723.0	2726.9	2726.9	2724.4	2725.6	2730.9
5°	2724.4	2728.3	2736.1	2742.8	2754.6	2759.9	2766.5	2773.1	2774.4	2778.4	2782.3
7.5°	2724.4	2737.5	2746.8	2758.6	2774.4	2783.7	2798.1	2810.0	2815.3	2821.8	2829.7
10°	2719.0	2732.2	2749.4	2762.5	2782.3	2796.8	2811.4	2829.7	2837.7	2848.2	2858.8
12.5°	2708.4	2723.0	2741.4	2758.6	2781.0	2794.2	2812.6	2829.7	2841.6	2856.1	2868.0
15°	2692.8	2709.8	2726.9	2744.1	2767.7	2783.7	2800.8	2820.5	2832.4	2848.2	2858.8
17.5°	2667.6	2686.1	2701.9	2717.8	2740.2	2758.6	2774.4	2792.9	2804.7	2818.0	2832.4
20°	2637.4	2654.4	2671.6	2684.8	2707.2	2723.0	2740.2	2757.3	2766.5	2769.2	2791.5
22.5°	2599.2	2610.9	2624.1	2645.2	2658.5	2672.9	2688.7	2704.5	2713.7	2728.3	2736.1
25°	2535.8	2547.7	2562.2	2571.5	2587.3	2599.2	2615.0	2632.1	2637.4	2647.9	2655.8
27.5°	2447.6	2454.1	2460.7	2468.6	2477.9	2484.5	2493.7	2501.6	2506.9	2512.2	2517.4
30°	2307.8	2307.8	2307.8	2302.5	2306.5	2310.5	2311.7	2310.5	2310.5	2309.1	2309.1
32.5°	2123.3	2112.7	2100.9	2090.3	2086.4	2081.1	2078.4	2074.5	2068.0	2064.0	2065.3
35°	1874.2	1850.4	1836.0	1822.9	1812.3	1804.4	1800.4	1796.4	1795.2	1789.9	1784.5
37.5°	1563.1	1546.0	1535.5	1527.6	1518.4	1510.4	1511.8	1513.1	1517.0	1514.4	1515.7
40°	1233.7	1229.7	1233.7	1224.5	1221.8	1224.5	1231.0	1240.3	1245.5	1250.8	1260.0
42.5°	938.4	945.0	954.3	954.3	958.1	963.5	971.3	985.9	993.8	1003.0	1013.6
45°	706.5	714.4	726.3	730.1	732.8	739.4	748.6	760.5	765.8	773.7	782.9
47.5°	544.4	549.6	556.1	562.7	569.4	572.0	581.2	581.2	587.9	593.1	595.7
50°	424.4	429.7	434.9	438.9	441.6	445.5	448.1	452.1	453.3	456.0	457.4
52.5°	332.2	338.8	338.8	341.3	345.3	349.3	348.0	349.3	350.5	350.5	354.6
55°	259.6	259.6	263.5	263.5	266.2	264.9	266.2	266.2	266.2	266.2	267.6
57.5°	193.7	195.1	199.1	196.4	195.1	197.6	195.1	197.6	196.4	199.1	195.1
60°	148.9	148.9	150.3	150.3	151.6	151.6	151.6	150.3	150.3	148.9	148.9
62.5°	112.0	113.3	114.7	113.3	113.3	113.3	112.0	112.0	110.8	109.4	109.4
65°	75.1	73.9	76.5	73.9	75.1	75.1	73.9	75.1	71.2	72.5	71.2
67.5°	54.0	52.7	51.5	52.7	51.5	50.1	50.1	51.5	52.7	48.8	48.8
70°	35.5	36.9	35.5	36.9	38.2	38.2	36.9	35.5	36.9	34.3	35.5
72.5°	22.4	22.4	22.4	22.4	22.4	23.7	23.7	23.7	21.1	21.1	19.7
75°	10.5	14.5	11.9	10.5	14.5	14.5	13.2	13.2	11.9	11.9	11.9
77.5°	10.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	6.6	8.0	6.6
80°	5.3	5.3	5.3	3.9	5.3	5.3	6.6	5.3	5.3	3.9	6.6
82.5°	2.7	2.7	2.7	0.0	1.3	2.7	2.7	1.3	2.7	2.7	1.3
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: P244589

CATALOG NUMBER: LD8B50D010 ER8B50930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3
2.5°	2729.6	2728.3	2729.6	2730.9	2729.6	2728.3	2729.6	2730.9	2725.6	2724.4	2726.9
5°	2787.6	2787.6	2790.2	2791.5	2790.2	2787.6	2787.6	2782.3	2778.4	2774.4	2773.1
7.5°	2837.7	2840.3	2843.0	2844.2	2843.0	2840.3	2837.7	2829.7	2821.8	2815.3	2810.0
10°	2868.0	2872.0	2877.3	2879.8	2877.3	2872.0	2868.0	2858.8	2848.2	2837.7	2829.7
12.5°	2881.2	2885.1	2891.7	2890.4	2891.7	2885.1	2881.2	2868.0	2856.1	2841.6	2829.7
15°	2872.0	2877.3	2883.8	2886.5	2883.8	2877.3	2872.0	2858.8	2848.2	2832.4	2820.5
17.5°	2843.0	2850.8	2854.9	2858.8	2854.9	2850.8	2843.0	2832.4	2818.0	2804.7	2792.9
20°	2803.4	2808.7	2813.9	2815.3	2813.9	2808.7	2803.4	2791.5	2769.2	2766.5	2757.3
22.5°	2746.8	2750.7	2762.5	2758.6	2762.5	2750.7	2746.8	2736.1	2728.3	2713.7	2704.5
25°	2665.0	2669.0	2670.3	2671.6	2670.3	2669.0	2665.0	2655.8	2647.9	2637.4	2632.1
27.5°	2524.0	2524.0	2526.6	2528.0	2526.6	2524.0	2524.0	2517.4	2512.2	2506.9	2501.6
30°	2310.5	2310.5	2310.5	2317.1	2310.5	2310.5	2310.5	2309.1	2309.1	2310.5	2310.5
32.5°	2064.0	2061.3	2058.7	2061.3	2058.7	2061.3	2064.0	2065.3	2064.0	2068.0	2074.5
35°	1784.5	1783.3	1787.2	1781.9	1787.2	1783.3	1784.5	1784.5	1789.9	1795.2	1796.4
37.5°	1517.0	1514.4	1519.6	1514.4	1519.6	1514.4	1517.0	1515.7	1514.4	1517.0	1513.1
40°	1262.7	1265.3	1265.3	1275.8	1265.3	1265.3	1262.7	1260.0	1250.8	1245.5	1240.3
42.5°	1018.8	1026.7	1024.0	1032.0	1024.0	1026.7	1018.8	1013.6	1003.0	993.8	985.9
45°	788.2	793.4	793.4	796.0	793.4	793.4	788.2	782.9	773.7	765.8	760.5
47.5°	604.9	604.9	604.9	606.3	604.9	604.9	604.9	595.7	593.1	587.9	581.2
50°	459.9	461.3	462.6	464.0	462.6	461.3	459.9	457.4	456.0	453.3	452.1
52.5°	353.2	354.6	351.9	354.6	351.9	354.6	353.2	354.6	350.5	350.5	349.3
55°	267.6	266.2	267.6	268.8	267.6	266.2	267.6	267.6	266.2	266.2	266.2
57.5°	196.4	193.7	193.7	193.7	193.7	193.7	196.4	195.1	199.1	196.4	197.6
60°	146.3	147.6	147.6	148.9	147.6	147.6	146.3	148.9	148.9	150.3	150.3
62.5°	108.1	112.0	109.4	112.0	109.4	112.0	108.1	109.4	109.4	110.8	112.0
65°	69.8	69.8	69.8	71.2	69.8	69.8	69.8	71.2	72.5	71.2	75.1
67.5°	47.4	48.8	51.5	50.1	51.5	48.8	47.4	48.8	48.8	52.7	51.5
70°	38.2	34.3	34.3	38.2	34.3	34.3	38.2	35.5	34.3	36.9	35.5
72.5°	22.4	19.7	22.4	22.4	22.4	19.7	22.4	19.7	21.1	21.1	23.7
75°	11.9	10.5	9.2	13.2	9.2	10.5	11.9	11.9	11.9	11.9	13.2
77.5°	8.0	6.6	9.2	9.2	9.2	6.6	8.0	6.6	8.0	6.6	8.0
80°	3.9	5.3	3.9	6.6	3.9	5.3	3.9	6.6	3.9	5.3	5.3
82.5°	1.3	2.7	2.7	2.7	2.7	2.7	1.3	1.3	2.7	2.7	1.3
85°	0.0	2.7	1.3	1.3	1.3	2.7	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.0	0.0	1.3	0.0	0.0	1.3	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: P244589

CATALOG NUMBER: LD8B50D010 ER8B50930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3
2.5°	2726.9	2723.0	2724.4	2716.4	2716.4	2713.7	2715.1	2708.4	2705.9	2703.3	2707.2
5°	2766.5	2759.9	2754.6	2742.8	2736.1	2728.3	2724.4	2713.7	2704.5	2696.6	2695.3
7.5°	2798.1	2783.7	2774.4	2758.6	2746.8	2737.5	2724.4	2709.8	2698.0	2687.4	2679.5
10°	2811.4	2796.8	2782.3	2762.5	2749.4	2732.2	2719.0	2700.6	2684.8	2670.3	2661.0
12.5°	2812.6	2794.2	2781.0	2758.6	2741.4	2723.0	2708.4	2687.4	2669.0	2654.4	2640.0
15°	2800.8	2783.7	2767.7	2744.1	2726.9	2709.8	2692.8	2670.3	2653.2	2636.0	2625.5
17.5°	2774.4	2758.6	2740.2	2717.8	2701.9	2686.1	2667.6	2649.3	2629.4	2610.9	2597.8
20°	2740.2	2723.0	2707.2	2684.8	2671.6	2654.4	2637.4	2617.5	2601.7	2583.3	2568.8
22.5°	2688.7	2672.9	2658.5	2645.2	2624.1	2610.9	2599.2	2576.7	2560.9	2543.8	2528.0
25°	2615.0	2599.2	2587.3	2571.5	2562.2	2547.7	2535.8	2516.1	2501.6	2485.7	2472.6
27.5°	2493.7	2484.5	2477.9	2468.6	2460.7	2454.1	2447.6	2431.7	2421.1	2406.7	2393.6
30°	2311.7	2310.5	2306.5	2302.5	2307.8	2307.8	2307.8	2305.2	2296.0	2285.4	2276.2
32.5°	2078.4	2081.1	2086.4	2090.3	2100.9	2112.7	2123.3	2128.6	2128.6	2122.1	2118.0
35°	1800.4	1804.4	1812.3	1822.9	1836.0	1850.4	1874.2	1879.5	1883.4	1883.4	1878.1
37.5°	1511.8	1510.4	1518.4	1527.6	1535.5	1546.0	1563.1	1567.2	1573.7	1571.1	1565.8
40°	1231.0	1224.5	1221.8	1224.5	1233.7	1229.7	1233.7	1231.0	1231.0	1221.8	1221.8
42.5°	971.3	963.5	958.1	954.3	954.3	945.0	938.4	931.9	927.9	921.2	920.0
45°	748.6	739.4	732.8	730.1	726.3	714.4	706.5	698.5	689.3	686.7	688.0
47.5°	581.2	572.0	569.4	562.7	556.1	549.6	544.4	535.2	533.8	528.6	533.8
50°	448.1	445.5	441.6	438.9	434.9	429.7	424.4	419.1	416.5	416.5	417.8
52.5°	348.0	349.3	345.3	341.3	338.8	338.8	332.2	330.8	330.8	325.5	330.8
55°	266.2	264.9	266.2	263.5	263.5	259.6	259.6	255.7	255.7	251.8	254.4
57.5°	195.1	197.6	195.1	196.4	199.1	195.1	193.7	189.8	192.5	189.8	191.1
60°	151.6	151.6	151.6	150.3	150.3	148.9	148.9	147.6	147.6	144.9	147.6
62.5°	112.0	113.3	113.3	113.3	114.7	113.3	112.0	113.3	112.0	112.0	113.3
65°	73.9	75.1	75.1	73.9	76.5	73.9	75.1	76.5	77.7	76.5	77.7
67.5°	50.1	50.1	51.5	52.7	51.5	52.7	54.0	52.7	54.0	56.7	54.0
70°	36.9	38.2	38.2	36.9	35.5	36.9	35.5	39.6	39.6	39.6	42.1
72.5°	23.7	23.7	22.4	22.4	22.4	22.4	22.4	26.3	23.7	22.4	25.1
75°	13.2	14.5	14.5	10.5	11.9	14.5	10.5	11.9	15.8	13.2	15.8
77.5°	8.0	8.0	8.0	8.0	8.0	8.0	10.5	9.2	9.2	9.2	10.5
80°	6.6	5.3	5.3	3.9	5.3	5.3	5.3	8.0	6.6	6.6	8.0
82.5°	2.7	2.7	1.3	0.0	2.7	2.7	2.7	2.7	2.7	2.7	5.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	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: P244589

CATALOG NUMBER: LD8B50D010 ER8B50930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3
2.5°	2696.6	2696.6	2695.3	2692.8	2687.4	2687.4	2686.1	2682.1	2679.5	2678.2	2678.2
5°	2683.4	2678.2	2672.9	2658.5	2658.5	2655.8	2647.9	2642.5	2640.0	2633.3	2630.8
7.5°	2671.6	2655.8	2646.6	2637.4	2625.5	2620.2	2610.9	2607.0	2597.8	2591.2	2587.3
10°	2642.5	2632.1	2620.2	2605.7	2596.5	2585.9	2575.4	2567.5	2555.7	2549.0	2543.8
12.5°	2622.8	2607.0	2596.5	2580.7	2564.8	2555.7	2541.1	2531.9	2520.0	2506.9	2498.9
15°	2604.4	2587.3	2572.8	2555.7	2538.5	2528.0	2510.8	2500.3	2483.1	2470.0	2460.7
17.5°	2576.7	2562.2	2546.4	2525.3	2509.5	2496.4	2477.9	2464.7	2448.8	2431.7	2422.5
20°	2547.7	2530.5	2514.7	2493.7	2477.9	2462.1	2443.6	2429.1	2410.6	2394.8	2384.3
22.5°	2509.5	2489.7	2476.5	2455.4	2436.9	2419.9	2402.8	2385.6	2368.4	2355.2	2343.5
25°	2454.1	2433.0	2418.6	2401.4	2384.3	2371.1	2350.1	2339.5	2322.4	2310.5	2298.6
27.5°	2375.1	2359.3	2346.0	2328.9	2314.4	2303.9	2288.1	2277.5	2263.0	2252.4	2243.2
30°	2259.0	2245.9	2234.0	2216.9	2206.4	2197.2	2182.6	2173.4	2162.9	2151.0	2148.4
32.5°	2103.6	2093.0	2081.1	2069.3	2061.3	2056.1	2044.3	2039.0	2028.4	2021.8	2015.2
35°	1868.9	1859.7	1853.1	1847.9	1845.2	1846.5	1843.9	1849.2	1851.8	1850.4	1851.8
37.5°	1561.9	1556.5	1559.2	1563.1	1576.4	1593.5	1609.3	1633.0	1648.9	1664.7	1679.1
40°	1219.2	1223.1	1233.7	1257.3	1291.6	1329.8	1365.5	1410.3	1455.1	1486.8	1515.7
42.5°	920.0	931.9	958.1	992.4	1043.9	1100.5	1155.9	1221.8	1275.8	1328.5	1365.5
45°	692.0	707.8	742.0	789.5	846.1	912.0	981.9	1055.8	1120.3	1174.4	1215.2
47.5°	539.1	553.5	587.9	638.0	707.8	776.3	848.8	925.3	992.4	1045.2	1080.8
50°	425.8	444.1	474.5	527.2	597.0	669.6	744.7	819.8	883.1	927.9	959.6
52.5°	334.7	351.9	380.9	436.3	507.5	579.9	649.7	723.6	778.9	822.5	843.6
55°	259.6	275.4	305.8	351.9	419.1	490.3	560.2	623.5	674.8	706.5	726.3
57.5°	197.6	209.5	230.7	276.8	337.4	403.3	462.6	525.9	565.4	587.9	601.0
60°	150.3	159.5	181.9	217.5	272.9	329.5	379.6	427.1	458.7	477.1	490.3
62.5°	113.3	123.9	139.7	170.1	212.2	258.4	300.5	336.1	362.4	374.3	383.5
65°	77.7	85.6	97.5	121.3	156.8	189.8	222.7	249.1	266.2	279.5	284.7
67.5°	58.0	63.2	69.8	88.3	113.3	139.7	162.1	180.6	199.1	204.4	213.6
70°	43.5	47.4	54.0	67.3	81.7	100.1	118.6	129.1	142.4	151.6	154.2
72.5°	27.7	28.9	35.5	43.5	55.4	67.3	79.1	88.3	96.3	101.5	104.1
75°	15.8	23.7	23.7	31.6	39.6	44.8	52.7	59.3	63.2	67.3	67.3
77.5°	10.5	14.5	15.8	19.7	23.7	30.4	36.9	40.8	44.8	46.1	46.1
80°	9.2	10.5	10.5	14.5	17.2	22.4	26.3	27.7	30.4	31.6	34.3
82.5°	3.9	5.3	6.6	10.5	11.9	11.9	15.8	17.2	19.7	21.1	21.1
85°	1.3	2.7	2.7	3.9	6.6	8.0	9.2	10.5	11.9	11.9	13.2
87.5°	1.3	1.3	0.0	1.3	2.7	2.7	5.3	5.3	5.3	8.0	8.0
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: P244589

CATALOG NUMBER: LD8B50D010 ER8B50930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3
2.5°	2675.6	2676.8	2671.6	2670.3	2667.6	2669.0	2671.6
5°	2626.8	2628.1	2622.8	2617.5	2617.5	2616.2	2617.5
7.5°	2580.7	2582.0	2574.0	2571.5	2566.2	2567.5	2567.5
10°	2534.5	2534.5	2522.7	2521.4	2517.4	2516.1	2516.1
12.5°	2489.7	2485.7	2476.5	2471.2	2473.9	2466.0	2466.0
15°	2450.2	2443.6	2431.7	2427.7	2421.1	2418.6	2418.6
17.5°	2409.3	2404.1	2393.6	2385.6	2377.6	2376.4	2377.6
20°	2369.8	2364.5	2351.3	2346.0	2339.5	2339.5	2336.8
22.5°	2330.2	2325.0	2313.1	2309.1	2300.0	2300.0	2301.2
25°	2289.3	2285.4	2272.3	2269.6	2268.3	2263.0	2265.7
27.5°	2234.0	2231.4	2220.8	2216.9	2211.6	2210.3	2213.0
30°	2132.5	2128.6	2120.7	2116.8	2107.5	2108.8	2111.4
32.5°	2006.0	2000.8	1990.2	1986.2	1978.3	1975.7	1977.0
35°	1847.9	1843.9	1834.7	1834.7	1826.8	1824.1	1826.8
37.5°	1687.1	1691.0	1687.1	1691.0	1687.1	1685.8	1687.1
40°	1535.5	1550.0	1552.6	1567.2	1561.9	1569.7	1568.4
42.5°	1390.5	1414.1	1423.4	1435.3	1432.8	1437.9	1441.9
45°	1244.2	1263.9	1273.2	1281.1	1282.4	1285.1	1286.3
47.5°	1105.8	1121.7	1122.9	1132.1	1130.9	1130.9	1134.8
50°	976.6	987.2	989.8	996.5	991.2	988.5	989.8
52.5°	856.7	867.2	864.6	867.2	860.7	858.0	859.4
55°	734.1	739.4	739.4	739.4	731.6	731.6	731.6
57.5°	608.9	610.3	607.6	608.9	607.6	599.7	598.4
60°	494.2	494.2	492.9	494.2	490.3	486.4	486.4
62.5°	386.2	388.8	394.0	388.8	386.2	388.8	384.8
65°	288.7	293.9	292.6	295.3	293.9	293.9	291.2
67.5°	217.5	218.8	220.1	221.4	221.4	221.4	221.4
70°	159.5	163.4	162.1	162.1	162.1	162.1	170.1
72.5°	106.7	112.0	110.8	113.3	113.3	116.0	113.3
75°	72.5	77.7	75.1	79.1	77.7	75.1	81.7
77.5°	48.8	51.5	52.7	54.0	52.7	51.5	52.7
80°	34.3	36.9	35.5	36.9	36.9	36.9	38.2
82.5°	21.1	25.1	23.7	25.1	23.7	25.1	25.1
85°	14.5	15.8	13.2	15.8	14.5	14.5	17.2
87.5°	9.2	8.0	8.0	9.2	8.0	9.2	8.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)