

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: P248959

Luminaire Tested: **LD8B90D010 ER8B909727 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248959
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: LD8B90D010 ER8B909727 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5016.0 lumens
Efficiency: N/A
Efficacy: 58.3 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

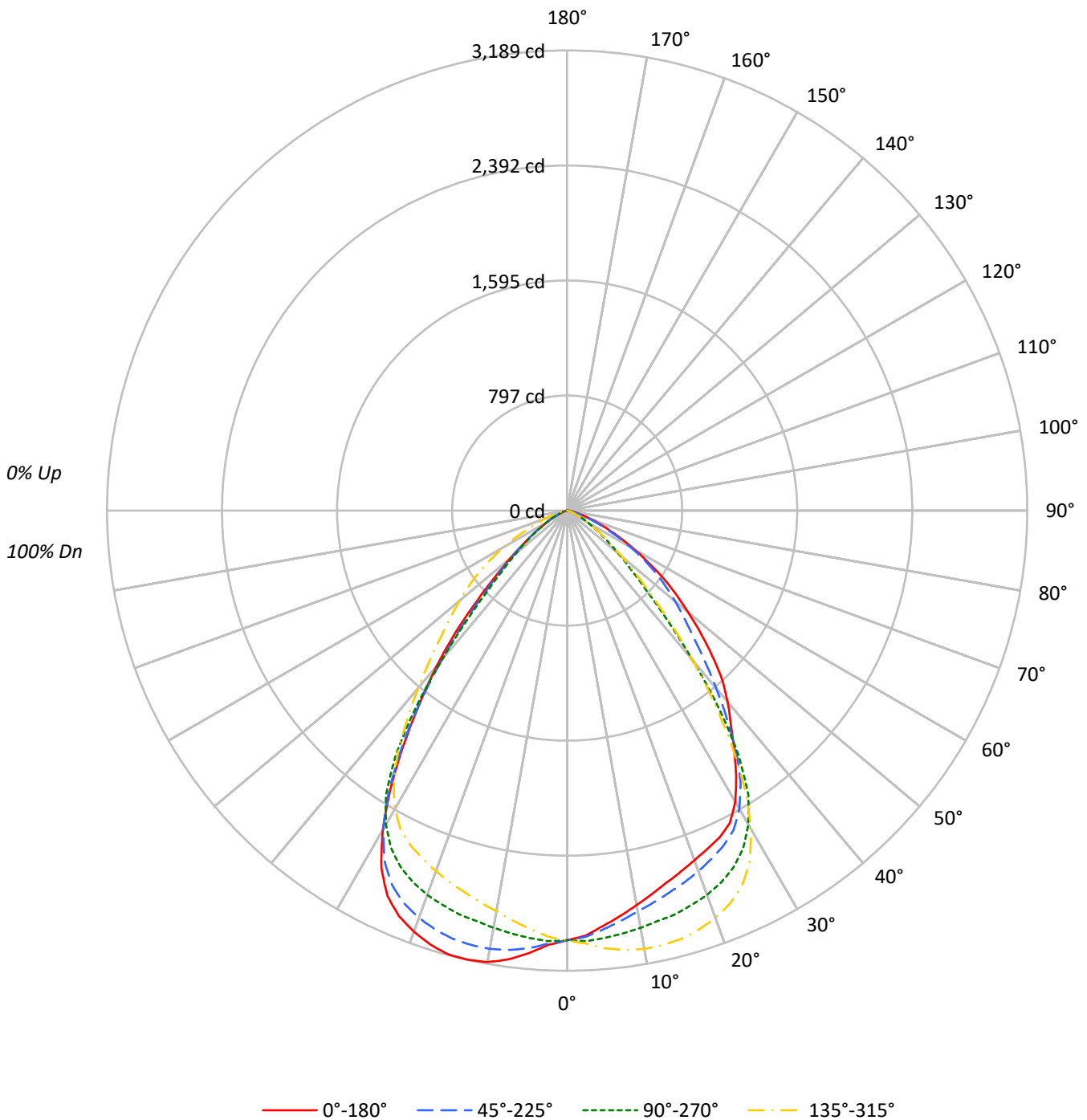
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	283.4	5.7
10°-20°	820.8	16.4
20°-30°	1242.8	24.8
30°-40°	1245.6	24.8
40°-50°	782.2	15.6
50°-60°	416.8	8.3
60°-70°	171.4	3.4
70°-80°	45.3	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°	2347.0	46.8
0°-40°	3592.6	71.6
0°-60°	4791.7	95.5
0°-90°	5016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5016.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2978	2978	2978	2978	2978	
5°	2888	2974	3080	2974	2888	272
15°	2668	2896	3184	2896	2668	755
25°	2500	2728	2947	2728	2500	1146
35°	2015	2072	1966	2072	2015	1263
45°	1419	759	878	759	1419	1091
55°	807	281	297	281	807	719
65°	321	86	78	86	321	333
75°	90	18	14	18	90	102
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°	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8
2.5°	2947.3	2944.4	2942.9	2945.9	2947.3	2953.1	2951.7	2954.6	2954.6	2956.1	2958.9
5°	2887.7	2886.2	2887.7	2887.7	2893.5	2899.3	2897.9	2902.3	2905.1	2912.4	2915.3
7.5°	2832.5	2832.5	2831.0	2836.8	2839.7	2848.4	2847.0	2854.3	2858.6	2865.9	2876.0
10°	2775.7	2775.7	2777.2	2781.5	2783.0	2796.1	2796.1	2806.3	2812.1	2819.4	2832.5
12.5°	2720.5	2720.5	2729.2	2726.3	2732.1	2742.3	2746.6	2756.8	2765.6	2780.1	2793.2
15°	2668.1	2668.1	2671.1	2678.3	2682.7	2695.8	2703.0	2714.7	2724.9	2739.4	2758.3
17.5°	2623.1	2621.6	2623.1	2631.8	2640.5	2652.1	2657.9	2672.5	2682.7	2701.6	2719.1
20°	2578.0	2580.9	2580.9	2588.2	2594.0	2608.5	2614.3	2630.4	2642.0	2659.4	2679.8
22.5°	2538.7	2537.3	2537.3	2547.5	2551.8	2564.9	2570.7	2585.2	2598.3	2612.9	2631.8
25°	2499.5	2496.5	2502.4	2503.8	2506.7	2521.3	2525.6	2535.8	2548.9	2562.0	2580.9
27.5°	2441.3	2438.4	2439.9	2445.7	2450.0	2461.6	2464.6	2474.8	2484.9	2496.5	2512.6
30°	2329.3	2326.4	2325.0	2335.2	2339.6	2348.2	2352.6	2370.1	2372.9	2386.1	2397.7
32.5°	2181.0	2179.6	2182.5	2191.2	2195.6	2207.2	2213.0	2223.2	2230.4	2237.7	2249.4
35°	2015.3	2012.4	2015.3	2024.0	2024.0	2034.2	2038.6	2042.9	2041.4	2042.9	2040.0
37.5°	1861.2	1859.7	1861.2	1865.5	1861.2	1865.5	1861.2	1852.4	1836.5	1819.0	1801.5
40°	1730.3	1731.7	1723.0	1728.9	1712.8	1709.9	1694.0	1672.1	1640.2	1605.3	1555.8
42.5°	1590.7	1586.4	1580.5	1583.4	1570.4	1560.1	1534.0	1506.4	1465.6	1407.5	1347.9
45°	1419.1	1417.7	1414.8	1413.3	1404.6	1394.4	1372.6	1340.6	1295.5	1235.9	1164.7
47.5°	1251.9	1247.5	1247.5	1249.0	1238.8	1237.4	1219.9	1192.3	1153.0	1094.9	1020.7
50°	1091.9	1090.5	1093.4	1099.2	1091.9	1089.1	1077.5	1058.5	1023.7	974.2	904.4
52.5°	948.0	946.6	949.5	956.7	953.8	956.7	945.1	930.6	907.3	859.3	798.3
55°	807.0	807.0	807.0	815.7	815.7	815.7	809.9	801.2	779.4	744.5	687.8
57.5°	660.1	661.6	670.3	671.7	670.3	673.2	671.7	663.0	648.5	623.8	580.2
60°	536.5	536.5	540.9	545.3	543.8	545.3	545.3	540.9	526.4	506.0	471.1
62.5°	424.6	428.9	426.0	428.9	434.7	428.9	426.0	423.1	413.0	399.9	370.8
65°	321.3	324.3	324.3	325.7	322.8	324.3	318.5	314.1	308.3	293.7	274.8
67.5°	244.3	244.3	244.3	244.3	242.8	241.4	239.9	235.6	225.4	219.6	199.2
70°	187.6	178.8	178.8	178.8	178.8	180.3	176.0	170.2	167.2	157.0	142.5
72.5°	125.0	128.0	125.0	125.0	122.2	123.6	117.8	114.8	112.0	106.2	97.4
75°	90.1	82.9	85.8	87.3	82.9	85.8	80.0	74.2	74.2	69.8	65.4
77.5°	58.2	56.7	58.2	59.6	58.2	56.7	53.8	50.9	50.9	49.4	45.1
80°	42.2	40.7	40.7	40.7	39.3	40.7	37.8	37.8	34.9	33.5	30.5
82.5°	27.7	27.7	26.2	27.7	26.2	27.7	23.3	23.3	23.3	21.8	18.9
85°	18.9	16.0	16.0	17.5	14.5	17.5	16.0	14.5	13.1	13.1	11.6
87.5°	8.7	10.2	8.7	10.2	8.7	8.7	10.2	8.7	8.7	5.8	5.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8
2.5°	2963.3	2964.7	2964.7	2970.6	2973.5	2974.9	2974.9	2986.6	2982.2	2985.1	2988.0
5°	2921.2	2929.8	2932.8	2932.8	2948.8	2954.6	2960.4	2973.5	2974.9	2983.6	2993.8
7.5°	2880.4	2890.6	2896.4	2909.5	2919.7	2929.8	2947.3	2956.1	2964.7	2976.4	2989.5
10°	2841.1	2852.8	2864.4	2874.6	2890.6	2903.7	2915.3	2935.6	2945.9	2961.9	2979.3
12.5°	2803.4	2819.4	2829.5	2847.0	2864.4	2876.0	2893.5	2912.4	2928.4	2944.4	2964.7
15°	2769.9	2788.8	2800.4	2819.4	2838.3	2854.3	2873.2	2896.4	2908.1	2927.0	2945.9
17.5°	2733.5	2753.9	2768.5	2785.9	2809.2	2826.6	2842.6	2865.9	2880.4	2900.8	2922.6
20°	2695.8	2716.1	2733.5	2751.0	2774.3	2791.7	2810.6	2833.9	2849.9	2870.2	2887.7
22.5°	2650.7	2669.6	2688.5	2708.8	2732.1	2746.6	2768.5	2788.8	2806.3	2825.2	2842.6
25°	2592.5	2615.8	2630.4	2649.2	2668.1	2684.1	2707.4	2727.7	2742.3	2759.8	2775.7
27.5°	2524.2	2541.7	2553.3	2569.3	2588.2	2602.7	2620.1	2640.5	2655.1	2671.1	2682.7
30°	2407.8	2423.9	2434.1	2445.7	2464.6	2477.7	2492.2	2511.1	2521.3	2532.9	2543.1
32.5°	2255.2	2268.3	2274.1	2282.8	2295.9	2309.0	2320.6	2336.6	2341.0	2348.2	2348.2
35°	2034.2	2037.1	2035.6	2038.6	2044.4	2051.6	2061.8	2072.0	2077.8	2077.8	2073.5
37.5°	1775.4	1757.9	1739.0	1724.5	1720.1	1717.2	1723.0	1727.4	1733.2	1736.1	1728.9
40°	1506.4	1467.1	1424.9	1387.1	1361.0	1349.4	1345.0	1347.9	1347.9	1358.0	1358.0
42.5°	1275.2	1214.1	1151.6	1094.9	1057.1	1028.0	1014.9	1014.9	1016.4	1023.7	1028.0
45°	1083.3	1006.2	933.5	871.0	818.6	780.8	763.4	759.0	757.6	760.4	770.6
47.5°	936.4	856.4	780.8	703.8	648.5	610.7	594.7	588.9	583.0	588.9	590.3
50°	821.5	738.7	658.7	581.6	523.4	490.0	469.6	460.9	459.5	459.5	462.4
52.5°	716.8	639.8	559.8	481.3	420.2	388.2	369.3	365.0	359.2	365.0	365.0
55°	617.9	540.9	462.4	388.2	337.3	303.9	286.4	280.6	277.7	282.1	282.1
57.5°	510.4	444.9	372.3	305.3	254.5	231.2	218.1	210.8	209.4	212.3	209.4
60°	418.8	363.5	301.0	239.9	200.7	176.0	165.8	162.8	159.9	162.8	162.8
62.5°	331.5	285.0	234.1	187.6	154.1	136.7	125.0	125.0	123.6	123.6	125.0
65°	245.7	209.4	173.0	133.8	107.6	94.5	85.8	85.8	84.3	85.8	84.3
67.5°	178.8	154.1	125.0	97.4	77.1	69.8	64.0	59.6	62.5	59.6	58.2
70°	130.9	110.5	90.1	74.2	59.6	52.4	48.0	46.5	43.6	43.6	43.6
72.5°	87.3	74.2	61.0	48.0	39.3	32.0	30.5	27.7	24.7	26.2	29.1
75°	58.2	49.4	43.6	34.9	26.2	26.2	17.5	17.5	14.5	17.5	13.1
77.5°	40.7	33.5	26.2	21.8	17.5	16.0	11.6	11.6	10.2	10.2	10.2
80°	29.1	24.7	18.9	16.0	11.6	11.6	10.2	8.7	7.2	7.2	8.7
82.5°	17.5	13.1	13.1	11.6	7.2	5.8	4.4	5.8	2.9	2.9	2.9
85°	10.2	8.7	7.2	4.4	2.9	2.9	1.4	0.0	1.4	1.4	0.0
87.5°	5.8	2.9	2.9	1.4	0.0	1.4	1.4	0.0	0.0	0.0	2.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8
2.5°	2995.3	2993.8	2996.8	2996.8	3005.5	3004.0	3008.4	3008.4	3005.5	3006.9	3012.7
5°	3005.5	3009.9	3018.5	3025.8	3038.9	3044.8	3052.0	3059.3	3060.7	3065.1	3069.5
7.5°	3005.5	3020.0	3030.2	3043.3	3060.7	3070.9	3086.9	3100.0	3105.8	3113.0	3121.8
10°	2999.6	3014.2	3033.1	3047.6	3069.5	3085.4	3101.4	3121.8	3130.5	3142.1	3153.8
12.5°	2988.0	3004.0	3024.3	3043.3	3068.0	3082.5	3102.9	3121.8	3134.9	3150.9	3164.0
15°	2970.6	2989.5	3008.4	3027.3	3053.4	3070.9	3089.8	3111.6	3124.7	3142.1	3153.8
17.5°	2942.9	2963.3	2980.8	2998.2	3022.9	3043.3	3060.7	3081.1	3094.2	3108.7	3124.7
20°	2909.5	2928.4	2947.3	2961.9	2986.6	3004.0	3022.9	3041.8	3052.0	3054.9	3079.6
22.5°	2867.4	2880.4	2894.9	2918.2	2932.8	2948.8	2966.2	2983.6	2993.8	3009.9	3018.5
25°	2797.5	2810.6	2826.6	2836.8	2854.3	2867.4	2884.8	2903.7	2909.5	2921.2	2929.8
27.5°	2700.1	2707.4	2714.7	2723.4	2733.5	2740.8	2751.0	2759.8	2765.6	2771.4	2777.2
30°	2546.0	2546.0	2546.0	2540.2	2544.5	2548.9	2550.3	2548.9	2548.9	2547.5	2547.5
32.5°	2342.4	2330.8	2317.7	2306.1	2301.7	2295.9	2293.0	2288.6	2281.4	2277.0	2278.4
35°	2067.6	2041.4	2025.5	2010.9	1999.3	1990.6	1986.2	1981.8	1980.4	1974.6	1968.7
37.5°	1724.5	1705.6	1694.0	1685.2	1675.1	1666.3	1667.7	1669.2	1673.6	1670.7	1672.1
40°	1361.0	1356.6	1361.0	1350.8	1347.9	1350.8	1358.0	1368.3	1374.1	1379.9	1390.0
42.5°	1035.3	1042.5	1052.7	1052.7	1057.1	1062.9	1071.6	1087.6	1096.3	1106.5	1118.2
45°	779.4	788.1	801.2	805.5	808.4	815.7	825.9	839.0	844.8	853.5	863.7
47.5°	600.5	606.3	613.6	620.9	628.1	631.0	641.2	641.2	648.5	654.3	657.2
50°	468.2	474.0	479.8	484.2	487.1	491.5	494.4	498.7	500.2	503.1	504.5
52.5°	366.4	373.7	373.7	376.6	380.9	385.3	383.9	385.3	386.7	386.7	391.1
55°	286.4	286.4	290.8	290.8	293.7	292.2	293.7	293.7	293.7	293.7	295.2
57.5°	213.7	215.2	219.6	216.7	215.2	218.1	215.2	218.1	216.7	219.6	215.2
60°	164.3	164.3	165.8	165.8	167.2	167.2	167.2	165.8	165.8	164.3	164.3
62.5°	123.6	125.0	126.5	125.0	125.0	125.0	123.6	123.6	122.2	120.7	120.7
65°	82.9	81.5	84.3	81.5	82.9	82.9	81.5	82.9	78.5	80.0	78.5
67.5°	59.6	58.2	56.7	58.2	56.7	55.2	55.2	56.7	58.2	53.8	53.8
70°	39.3	40.7	39.3	40.7	42.2	42.2	40.7	39.3	40.7	37.8	39.3
72.5°	24.7	24.7	24.7	24.7	24.7	26.2	26.2	26.2	23.3	23.3	21.8
75°	11.6	16.0	13.1	11.6	16.0	16.0	14.5	14.5	13.1	13.1	13.1
77.5°	11.6	8.7	8.7	8.7	8.7	8.7	8.7	8.7	7.2	8.7	7.2
80°	5.8	5.8	5.8	4.4	5.8	5.8	7.2	5.8	5.8	4.4	7.2
82.5°	2.9	2.9	2.9	0.0	1.4	2.9	2.9	1.4	2.9	2.9	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: P248959

CATALOG NUMBER: LD8B90D010 ER8B909727 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8
2.5°	3011.3	3009.9	3011.3	3012.7	3011.3	3009.9	3011.3	3012.7	3006.9	3005.5	3008.4
5°	3075.3	3075.3	3078.1	3079.6	3078.1	3075.3	3075.3	3069.5	3065.1	3060.7	3059.3
7.5°	3130.5	3133.4	3136.3	3137.8	3136.3	3133.4	3130.5	3121.8	3113.0	3105.8	3100.0
10°	3164.0	3168.3	3174.1	3177.0	3174.1	3168.3	3164.0	3153.8	3142.1	3130.5	3121.8
12.5°	3178.5	3182.9	3190.1	3188.7	3190.1	3182.9	3178.5	3164.0	3150.9	3134.9	3121.8
15°	3168.3	3174.1	3181.4	3184.3	3181.4	3174.1	3168.3	3153.8	3142.1	3124.7	3111.6
17.5°	3136.3	3145.1	3149.4	3153.8	3149.4	3145.1	3136.3	3124.7	3108.7	3094.2	3081.1
20°	3092.7	3098.6	3104.4	3105.8	3104.4	3098.6	3092.7	3079.6	3054.9	3052.0	3041.8
22.5°	3030.2	3034.6	3047.6	3043.3	3047.6	3034.6	3030.2	3018.5	3009.9	2993.8	2983.6
25°	2940.0	2944.4	2945.9	2947.3	2945.9	2944.4	2940.0	2929.8	2921.2	2909.5	2903.7
27.5°	2784.5	2784.5	2787.3	2788.8	2787.3	2784.5	2784.5	2777.2	2771.4	2765.6	2759.8
30°	2548.9	2548.9	2548.9	2556.2	2548.9	2548.9	2548.9	2547.5	2547.5	2548.9	2548.9
32.5°	2277.0	2274.1	2271.2	2274.1	2271.2	2274.1	2277.0	2278.4	2277.0	2281.4	2288.6
35°	1968.7	1967.3	1971.7	1965.9	1971.7	1967.3	1968.7	1968.7	1974.6	1980.4	1981.8
37.5°	1673.6	1670.7	1676.5	1670.7	1676.5	1670.7	1673.6	1672.1	1670.7	1673.6	1669.2
40°	1393.0	1395.9	1395.9	1407.5	1395.9	1395.9	1393.0	1390.0	1379.9	1374.1	1368.3
42.5°	1124.0	1132.7	1129.8	1138.5	1129.8	1132.7	1124.0	1118.2	1106.5	1096.3	1087.6
45°	869.5	875.3	875.3	878.2	875.3	875.3	869.5	863.7	853.5	844.8	839.0
47.5°	667.4	667.4	667.4	668.9	667.4	667.4	667.4	657.2	654.3	648.5	641.2
50°	507.5	508.9	510.4	511.8	510.4	508.9	507.5	504.5	503.1	500.2	498.7
52.5°	389.7	391.1	388.2	391.1	388.2	391.1	389.7	391.1	386.7	386.7	385.3
55°	295.2	293.7	295.2	296.6	295.2	293.7	295.2	295.2	293.7	293.7	293.7
57.5°	216.7	213.7	213.7	213.7	213.7	213.7	216.7	215.2	219.6	216.7	218.1
60°	161.4	162.8	162.8	164.3	162.8	162.8	161.4	164.3	164.3	165.8	165.8
62.5°	119.2	123.6	120.7	123.6	120.7	123.6	119.2	120.7	120.7	122.2	123.6
65°	77.1	77.1	77.1	78.5	77.1	77.1	77.1	78.5	80.0	78.5	82.9
67.5°	52.4	53.8	56.7	55.2	56.7	53.8	52.4	53.8	53.8	58.2	56.7
70°	42.2	37.8	37.8	42.2	37.8	37.8	42.2	39.3	37.8	40.7	39.3
72.5°	24.7	21.8	24.7	24.7	24.7	21.8	24.7	21.8	23.3	23.3	26.2
75°	13.1	11.6	10.2	14.5	10.2	11.6	13.1	13.1	13.1	13.1	14.5
77.5°	8.7	7.2	10.2	10.2	10.2	7.2	8.7	7.2	8.7	7.2	8.7
80°	4.4	5.8	4.4	7.2	4.4	5.8	4.4	7.2	4.4	5.8	5.8
82.5°	1.4	2.9	2.9	2.9	2.9	2.9	1.4	1.4	2.9	2.9	1.4
85°	0.0	2.9	1.4	1.4	1.4	2.9	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: P248959

CATALOG NUMBER: LD8B90D010 ER8B909727 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8
2.5°	3008.4	3004.0	3005.5	2996.8	2996.8	2993.8	2995.3	2988.0	2985.1	2982.2	2986.6
5°	3052.0	3044.8	3038.9	3025.8	3018.5	3009.9	3005.5	2993.8	2983.6	2974.9	2973.5
7.5°	3086.9	3070.9	3060.7	3043.3	3030.2	3020.0	3005.5	2989.5	2976.4	2964.7	2956.1
10°	3101.4	3085.4	3069.5	3047.6	3033.1	3014.2	2999.6	2979.3	2961.9	2945.9	2935.6
12.5°	3102.9	3082.5	3068.0	3043.3	3024.3	3004.0	2988.0	2964.7	2944.4	2928.4	2912.4
15°	3089.8	3070.9	3053.4	3027.3	3008.4	2989.5	2970.6	2945.9	2927.0	2908.1	2896.4
17.5°	3060.7	3043.3	3022.9	2998.2	2980.8	2963.3	2942.9	2922.6	2900.8	2880.4	2865.9
20°	3022.9	3004.0	2986.6	2961.9	2947.3	2928.4	2909.5	2887.7	2870.2	2849.9	2833.9
22.5°	2966.2	2948.8	2932.8	2918.2	2894.9	2880.4	2867.4	2842.6	2825.2	2806.3	2788.8
25°	2884.8	2867.4	2854.3	2836.8	2826.6	2810.6	2797.5	2775.7	2759.8	2742.3	2727.7
27.5°	2751.0	2740.8	2733.5	2723.4	2714.7	2707.4	2700.1	2682.7	2671.1	2655.1	2640.5
30°	2550.3	2548.9	2544.5	2540.2	2546.0	2546.0	2546.0	2543.1	2532.9	2521.3	2511.1
32.5°	2293.0	2295.9	2301.7	2306.1	2317.7	2330.8	2342.4	2348.2	2348.2	2341.0	2336.6
35°	1986.2	1990.6	1999.3	2010.9	2025.5	2041.4	2067.6	2073.5	2077.8	2077.8	2072.0
37.5°	1667.7	1666.3	1675.1	1685.2	1694.0	1705.6	1724.5	1728.9	1736.1	1733.2	1727.4
40°	1358.0	1350.8	1347.9	1350.8	1361.0	1356.6	1361.0	1358.0	1358.0	1347.9	1347.9
42.5°	1071.6	1062.9	1057.1	1052.7	1052.7	1042.5	1035.3	1028.0	1023.7	1016.4	1014.9
45°	825.9	815.7	808.4	805.5	801.2	788.1	779.4	770.6	760.4	757.6	759.0
47.5°	641.2	631.0	628.1	620.9	613.6	606.3	600.5	590.3	588.9	583.0	588.9
50°	494.4	491.5	487.1	484.2	479.8	474.0	468.2	462.4	459.5	459.5	460.9
52.5°	383.9	385.3	380.9	376.6	373.7	373.7	366.4	365.0	365.0	359.2	365.0
55°	293.7	292.2	293.7	290.8	290.8	286.4	286.4	282.1	282.1	277.7	280.6
57.5°	215.2	218.1	215.2	216.7	219.6	215.2	213.7	209.4	212.3	209.4	210.8
60°	167.2	167.2	167.2	165.8	165.8	164.3	164.3	162.8	162.8	159.9	162.8
62.5°	123.6	125.0	125.0	125.0	126.5	125.0	123.6	125.0	123.6	123.6	125.0
65°	81.5	82.9	82.9	81.5	84.3	81.5	82.9	84.3	85.8	84.3	85.8
67.5°	55.2	55.2	56.7	58.2	56.7	58.2	59.6	58.2	59.6	62.5	59.6
70°	40.7	42.2	42.2	40.7	39.3	40.7	39.3	43.6	43.6	43.6	46.5
72.5°	26.2	26.2	24.7	24.7	24.7	24.7	24.7	29.1	26.2	24.7	27.7
75°	14.5	16.0	16.0	11.6	13.1	16.0	11.6	13.1	17.5	14.5	17.5
77.5°	8.7	8.7	8.7	8.7	8.7	8.7	11.6	10.2	10.2	10.2	11.6
80°	7.2	5.8	5.8	4.4	5.8	5.8	5.8	8.7	7.2	7.2	8.7
82.5°	2.9	2.9	1.4	0.0	2.9	2.9	2.9	2.9	2.9	2.9	5.8
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	2.9	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: P248959

CATALOG NUMBER: LD8B90D010 ER8B909727 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8
2.5°	2974.9	2974.9	2973.5	2970.6	2964.7	2964.7	2963.3	2958.9	2956.1	2954.6	2954.6
5°	2960.4	2954.6	2948.8	2932.8	2932.8	2929.8	2921.2	2915.3	2912.4	2905.1	2902.3
7.5°	2947.3	2929.8	2919.7	2909.5	2896.4	2890.6	2880.4	2876.0	2865.9	2858.6	2854.3
10°	2915.3	2903.7	2890.6	2874.6	2864.4	2852.8	2841.1	2832.5	2819.4	2812.1	2806.3
12.5°	2893.5	2876.0	2864.4	2847.0	2829.5	2819.4	2803.4	2793.2	2780.1	2765.6	2756.8
15°	2873.2	2854.3	2838.3	2819.4	2800.4	2788.8	2769.9	2758.3	2739.4	2724.9	2714.7
17.5°	2842.6	2826.6	2809.2	2785.9	2768.5	2753.9	2733.5	2719.1	2701.6	2682.7	2672.5
20°	2810.6	2791.7	2774.3	2751.0	2733.5	2716.1	2695.8	2679.8	2659.4	2642.0	2630.4
22.5°	2768.5	2746.6	2732.1	2708.8	2688.5	2669.6	2650.7	2631.8	2612.9	2598.3	2585.2
25°	2707.4	2684.1	2668.1	2649.2	2630.4	2615.8	2592.5	2580.9	2562.0	2548.9	2535.8
27.5°	2620.1	2602.7	2588.2	2569.3	2553.3	2541.7	2524.2	2512.6	2496.5	2484.9	2474.8
30°	2492.2	2477.7	2464.6	2445.7	2434.1	2423.9	2407.8	2397.7	2386.1	2372.9	2370.1
32.5°	2320.6	2309.0	2295.9	2282.8	2274.1	2268.3	2255.2	2249.4	2237.7	2230.4	2223.2
35°	2061.8	2051.6	2044.4	2038.6	2035.6	2037.1	2034.2	2040.0	2042.9	2041.4	2042.9
37.5°	1723.0	1717.2	1720.1	1724.5	1739.0	1757.9	1775.4	1801.5	1819.0	1836.5	1852.4
40°	1345.0	1349.4	1361.0	1387.1	1424.9	1467.1	1506.4	1555.8	1605.3	1640.2	1672.1
42.5°	1014.9	1028.0	1057.1	1094.9	1151.6	1214.1	1275.2	1347.9	1407.5	1465.6	1506.4
45°	763.4	780.8	818.6	871.0	933.5	1006.2	1083.3	1164.7	1235.9	1295.5	1340.6
47.5°	594.7	610.7	648.5	703.8	780.8	856.4	936.4	1020.7	1094.9	1153.0	1192.3
50°	469.6	490.0	523.4	581.6	658.7	738.7	821.5	904.4	974.2	1023.7	1058.5
52.5°	369.3	388.2	420.2	481.3	559.8	639.8	716.8	798.3	859.3	907.3	930.6
55°	286.4	303.9	337.3	388.2	462.4	540.9	617.9	687.8	744.5	779.4	801.2
57.5°	218.1	231.2	254.5	305.3	372.3	444.9	510.4	580.2	623.8	648.5	663.0
60°	165.8	176.0	200.7	239.9	301.0	363.5	418.8	471.1	506.0	526.4	540.9
62.5°	125.0	136.7	154.1	187.6	234.1	285.0	331.5	370.8	399.9	413.0	423.1
65°	85.8	94.5	107.6	133.8	173.0	209.4	245.7	274.8	293.7	308.3	314.1
67.5°	64.0	69.8	77.1	97.4	125.0	154.1	178.8	199.2	219.6	225.4	235.6
70°	48.0	52.4	59.6	74.2	90.1	110.5	130.9	142.5	157.0	167.2	170.2
72.5°	30.5	32.0	39.3	48.0	61.0	74.2	87.3	97.4	106.2	112.0	114.8
75°	17.5	26.2	26.2	34.9	43.6	49.4	58.2	65.4	69.8	74.2	74.2
77.5°	11.6	16.0	17.5	21.8	26.2	33.5	40.7	45.1	49.4	50.9	50.9
80°	10.2	11.6	11.6	16.0	18.9	24.7	29.1	30.5	33.5	34.9	37.8
82.5°	4.4	5.8	7.2	11.6	13.1	13.1	17.5	18.9	21.8	23.3	23.3
85°	1.4	2.9	2.9	4.4	7.2	8.7	10.2	11.6	13.1	13.1	14.5
87.5°	1.4	1.4	0.0	1.4	2.9	2.9	5.8	5.8	5.8	8.7	8.7
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: P248959

CATALOG NUMBER: LD8B90D010 ER8B909727 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8
2.5°	2951.7	2953.1	2947.3	2945.9	2942.9	2944.4	2947.3
5°	2897.9	2899.3	2893.5	2887.7	2887.7	2886.2	2887.7
7.5°	2847.0	2848.4	2839.7	2836.8	2831.0	2832.5	2832.5
10°	2796.1	2796.1	2783.0	2781.5	2777.2	2775.7	2775.7
12.5°	2746.6	2742.3	2732.1	2726.3	2729.2	2720.5	2720.5
15°	2703.0	2695.8	2682.7	2678.3	2671.1	2668.1	2668.1
17.5°	2657.9	2652.1	2640.5	2631.8	2623.1	2621.6	2623.1
20°	2614.3	2608.5	2594.0	2588.2	2580.9	2580.9	2578.0
22.5°	2570.7	2564.9	2551.8	2547.5	2537.3	2537.3	2538.7
25°	2525.6	2521.3	2506.7	2503.8	2502.4	2496.5	2499.5
27.5°	2464.6	2461.6	2450.0	2445.7	2439.9	2438.4	2441.3
30°	2352.6	2348.2	2339.6	2335.2	2325.0	2326.4	2329.3
32.5°	2213.0	2207.2	2195.6	2191.2	2182.5	2179.6	2181.0
35°	2038.6	2034.2	2024.0	2024.0	2015.3	2012.4	2015.3
37.5°	1861.2	1865.5	1861.2	1865.5	1861.2	1859.7	1861.2
40°	1694.0	1709.9	1712.8	1728.9	1723.0	1731.7	1730.3
42.5°	1534.0	1560.1	1570.4	1583.4	1580.5	1586.4	1590.7
45°	1372.6	1394.4	1404.6	1413.3	1414.8	1417.7	1419.1
47.5°	1219.9	1237.4	1238.8	1249.0	1247.5	1247.5	1251.9
50°	1077.5	1089.1	1091.9	1099.2	1093.4	1090.5	1091.9
52.5°	945.1	956.7	953.8	956.7	949.5	946.6	948.0
55°	809.9	815.7	815.7	815.7	807.0	807.0	807.0
57.5°	671.7	673.2	670.3	671.7	670.3	661.6	660.1
60°	545.3	545.3	543.8	545.3	540.9	536.5	536.5
62.5°	426.0	428.9	434.7	428.9	426.0	428.9	424.6
65°	318.5	324.3	322.8	325.7	324.3	324.3	321.3
67.5°	239.9	241.4	242.8	244.3	244.3	244.3	244.3
70°	176.0	180.3	178.8	178.8	178.8	178.8	187.6
72.5°	117.8	123.6	122.2	125.0	125.0	128.0	125.0
75°	80.0	85.8	82.9	87.3	85.8	82.9	90.1
77.5°	53.8	56.7	58.2	59.6	58.2	56.7	58.2
80°	37.8	40.7	39.3	40.7	40.7	40.7	42.2
82.5°	23.3	27.7	26.2	27.7	26.2	27.7	27.7
85°	16.0	17.5	14.5	17.5	16.0	16.0	18.9
87.5°	10.2	8.7	8.7	10.2	8.7	10.2	8.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)