

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: P245981

Luminaire Tested: **LD8B50D010 ER8B50840 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245981
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 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5412.0 lumens
Efficiency: N/A
Efficacy: 102.1 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

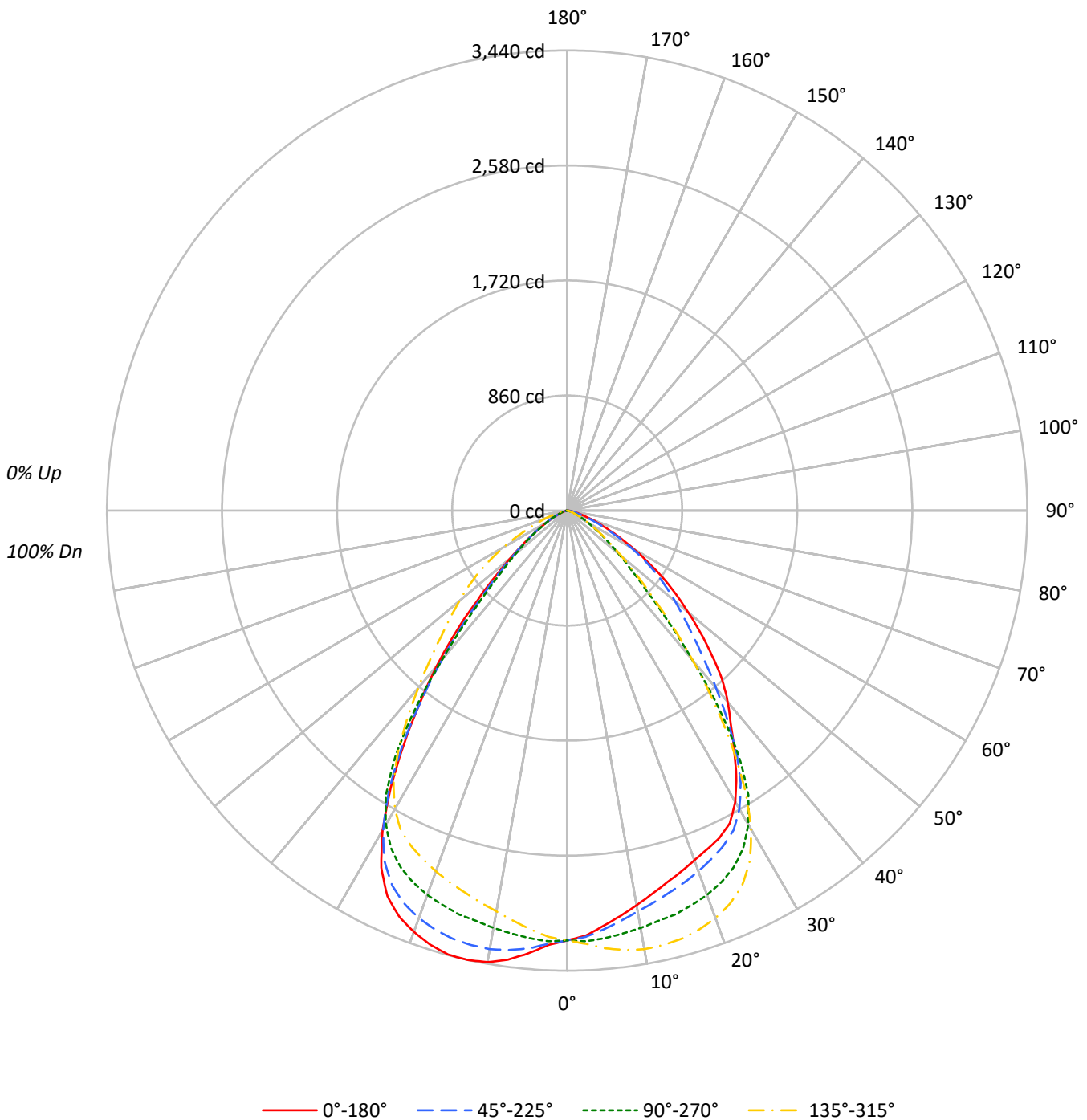
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	99074	99074	99074	99074
5°	96444	99307	102854	99307
10°	93776	99178	107331	99178
15°	91903	99766	109682	99766
20°	91276	100336	109964	100336
25°	91756	100136	108197	100136
30°	89487	96469	98203	96469
35°	81854	84154	79847	84154
40°	75150	58541	61130	58541
45°	66774	35712	41324	35712
50°	56517	23857	26491	23857
55°	46810	16279	17204	16279
60°	35702	10836	10935	10836
65°	25297	6749	6180	6749
70°	18248	4526	4102	4526
75°	11581	2252	1871	2252
80°	8080	1669	1385	1669
85°	7218	0	531	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.8	5.7
10°-20°	885.6	16.4
20°-30°	1340.9	24.8
30°-40°	1344.0	24.8
40°-50°	843.9	15.6
50°-60°	449.7	8.3
60°-70°	184.9	3.4
70°-80°	48.9	0.9
80°-90°	8.3	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°	2532.3	46.8
0°-40°	3876.3	71.6
0°-60°	5169.9	95.5
0°-90°	5412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5412.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3213	3213	3213	3213	3213	
5°	3116	3208	3323	3208	3116	294
15°	2879	3125	3436	3125	2879	814
25°	2697	2943	3180	2943	2697	1237
35°	2174	2236	2121	2236	2174	1362
45°	1531	819	948	819	1531	1178
55°	871	303	320	303	871	776
65°	347	92	85	92	347	360
75°	97	19	16	19	97	110
85°	20	0	2	0	20	22
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°	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9
2.5°	3180.0	3176.8	3175.3	3178.5	3180.0	3186.3	3184.7	3187.8	3187.8	3189.4	3192.5
5°	3115.7	3114.1	3115.7	3115.7	3121.9	3128.2	3126.7	3131.4	3134.5	3142.4	3145.5
7.5°	3056.1	3056.1	3054.5	3060.7	3063.9	3073.3	3071.7	3079.6	3084.3	3092.1	3103.1
10°	2994.9	2994.9	2996.4	3001.1	3002.7	3016.8	3016.8	3027.8	3034.1	3041.9	3056.1
12.5°	2935.3	2935.3	2944.7	2941.5	2947.8	2958.8	2963.5	2974.5	2983.9	2999.6	3013.7
15°	2878.8	2878.8	2881.9	2889.7	2894.5	2908.6	2916.4	2929.0	2940.0	2955.7	2976.1
17.5°	2830.1	2828.6	2830.1	2839.6	2849.0	2861.5	2867.8	2883.5	2894.5	2914.9	2933.7
20°	2781.5	2784.7	2784.7	2792.5	2798.8	2814.4	2820.7	2838.0	2850.5	2869.3	2891.4
22.5°	2739.2	2737.6	2737.6	2748.6	2753.3	2767.4	2773.6	2789.3	2803.5	2819.2	2839.6
25°	2696.8	2693.6	2700.0	2701.5	2704.6	2720.3	2725.0	2736.0	2750.1	2764.3	2784.7
27.5°	2634.0	2630.9	2632.5	2638.7	2643.5	2656.0	2659.1	2670.1	2681.1	2693.6	2710.9
30°	2513.2	2510.1	2508.6	2519.5	2524.3	2533.6	2538.3	2557.2	2560.3	2574.4	2587.0
32.5°	2353.2	2351.6	2354.8	2364.2	2368.9	2381.5	2387.7	2398.7	2406.5	2414.4	2426.9
35°	2174.4	2171.2	2174.4	2183.8	2183.8	2194.8	2199.5	2204.2	2202.6	2204.2	2201.1
37.5°	2008.1	2006.5	2008.1	2012.8	2008.1	2012.8	2008.1	1998.7	1981.4	1962.6	1943.7
40°	1866.9	1868.4	1859.1	1865.3	1848.0	1844.9	1827.7	1804.1	1769.6	1732.0	1678.7
42.5°	1716.3	1711.6	1705.3	1708.4	1694.4	1683.3	1655.1	1625.3	1581.3	1518.6	1454.3
45°	1531.2	1529.6	1526.5	1524.9	1515.5	1504.5	1480.9	1446.5	1397.8	1333.5	1256.6
47.5°	1350.8	1346.0	1346.0	1347.6	1336.6	1335.1	1316.2	1286.4	1244.1	1181.3	1101.3
50°	1178.1	1176.6	1179.8	1186.0	1178.1	1175.0	1162.5	1142.1	1104.5	1051.1	975.8
52.5°	1022.8	1021.3	1024.5	1032.3	1029.1	1032.3	1019.7	1004.1	978.9	927.2	861.3
55°	870.7	870.7	870.7	880.1	880.1	880.1	873.8	864.4	840.9	803.2	742.1
57.5°	712.2	713.8	723.2	724.8	723.2	726.4	724.8	715.3	699.7	673.1	626.0
60°	578.9	578.9	583.6	588.3	586.7	588.3	588.3	583.6	567.9	546.0	508.3
62.5°	458.1	462.8	459.6	462.8	469.1	462.8	459.6	456.5	445.6	431.4	400.0
65°	346.7	349.9	349.9	351.4	348.2	349.9	343.6	338.9	332.6	316.9	296.5
67.5°	263.6	263.6	263.6	263.6	262.0	260.4	258.9	254.2	243.2	236.9	214.9
70°	202.4	192.9	192.9	192.9	192.9	194.6	189.8	183.6	180.4	169.4	153.8
72.5°	134.9	138.1	134.9	134.9	131.8	133.3	127.1	123.9	120.8	114.6	105.1
75°	97.2	89.4	92.5	94.1	89.4	92.5	86.3	80.0	80.0	75.3	70.6
77.5°	62.8	61.2	62.8	64.3	62.8	61.2	58.1	54.9	54.9	53.3	48.6
80°	45.5	43.9	43.9	43.9	42.4	43.9	40.8	40.8	37.6	36.1	32.9
82.5°	29.8	29.8	28.2	29.8	28.2	29.8	25.1	25.1	25.1	23.5	20.4
85°	20.4	17.2	17.2	18.9	15.7	18.9	17.2	15.7	14.1	14.1	12.5
87.5°	9.4	11.0	9.4	11.0	9.4	9.4	11.0	9.4	9.4	6.3	6.3
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°	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9
2.5°	3197.2	3198.8	3198.8	3205.1	3208.2	3209.8	3209.8	3222.4	3217.6	3220.8	3223.9
5°	3151.8	3161.1	3164.3	3164.3	3181.6	3187.8	3194.1	3208.2	3209.8	3219.2	3230.2
7.5°	3107.8	3118.8	3125.1	3139.2	3150.2	3161.1	3180.0	3189.4	3198.8	3211.4	3225.5
10°	3065.4	3078.0	3090.6	3101.5	3118.8	3132.9	3145.5	3167.4	3178.5	3195.7	3214.5
12.5°	3024.7	3041.9	3052.9	3071.7	3090.6	3103.1	3121.9	3142.4	3159.6	3176.8	3198.8
15°	2988.6	3009.0	3021.5	3041.9	3062.3	3079.6	3100.0	3125.1	3137.6	3158.0	3178.5
17.5°	2949.3	2971.4	2987.1	3005.8	3031.0	3049.8	3067.1	3092.1	3107.8	3129.8	3153.3
20°	2908.6	2930.6	2949.3	2968.2	2993.3	3012.1	3032.5	3057.6	3074.9	3096.8	3115.7
22.5°	2860.0	2880.4	2900.7	2922.7	2947.8	2963.5	2987.1	3009.0	3027.8	3048.2	3067.1
25°	2797.2	2822.3	2838.0	2858.4	2878.8	2896.0	2921.1	2943.1	2958.8	2977.6	2994.9
27.5°	2723.5	2742.3	2754.8	2772.1	2792.5	2808.2	2827.0	2849.0	2864.7	2881.9	2894.5
30°	2597.9	2615.2	2626.2	2638.7	2659.1	2673.3	2689.0	2709.3	2720.3	2732.9	2743.9
32.5°	2433.2	2447.3	2453.6	2463.0	2477.2	2491.3	2503.8	2521.1	2525.8	2533.6	2533.6
35°	2194.8	2197.9	2196.3	2199.5	2205.8	2213.6	2224.6	2235.5	2241.8	2241.8	2237.2
37.5°	1915.5	1896.7	1876.3	1860.6	1855.9	1852.8	1859.1	1863.7	1870.1	1873.2	1865.3
40°	1625.3	1583.0	1537.4	1496.6	1468.4	1455.9	1451.2	1454.3	1454.3	1465.2	1465.2
42.5°	1375.9	1309.9	1242.5	1181.3	1140.5	1109.2	1095.0	1095.0	1096.6	1104.5	1109.2
45°	1168.8	1085.6	1007.2	939.7	883.2	842.4	823.6	818.9	817.4	820.5	831.5
47.5°	1010.3	924.1	842.4	759.3	699.7	658.9	641.7	635.3	629.1	635.3	637.0
50°	886.4	797.0	710.7	627.5	564.8	528.7	506.7	497.3	495.7	495.7	498.9
52.5°	773.4	690.3	604.0	519.3	453.4	418.9	398.5	393.8	387.5	393.8	393.8
55°	666.7	583.6	498.9	418.9	363.9	327.9	309.1	302.8	299.6	304.3	304.3
57.5°	550.7	480.0	401.6	329.5	274.6	249.4	235.3	227.5	225.9	229.0	225.9
60°	451.8	392.2	324.7	258.9	216.5	189.8	178.9	175.7	172.5	175.7	175.7
62.5°	357.7	307.5	252.5	202.4	166.3	147.5	134.9	134.9	133.3	133.3	134.9
65°	265.1	225.9	186.7	144.3	116.1	102.0	92.5	92.5	91.0	92.5	91.0
67.5°	192.9	166.3	134.9	105.1	83.2	75.3	69.0	64.3	67.5	64.3	62.8
70°	141.2	119.2	97.2	80.0	64.3	56.5	51.8	50.2	47.1	47.1	47.1
72.5°	94.1	80.0	65.9	51.8	42.4	34.5	32.9	29.8	26.7	28.2	31.4
75°	62.8	53.3	47.1	37.6	28.2	28.2	18.9	18.9	15.7	18.9	14.1
77.5°	43.9	36.1	28.2	23.5	18.9	17.2	12.5	12.5	11.0	11.0	11.0
80°	31.4	26.7	20.4	17.2	12.5	12.5	11.0	9.4	7.8	7.8	9.4
82.5°	18.9	14.1	14.1	12.5	7.8	6.3	4.7	6.3	3.2	3.2	3.2
85°	11.0	9.4	7.8	4.7	3.2	3.2	1.5	0.0	1.5	1.5	0.0
87.5°	6.3	3.2	3.2	1.5	0.0	1.5	1.5	0.0	0.0	0.0	3.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9
2.5°	3231.8	3230.2	3233.3	3233.3	3242.8	3241.2	3245.9	3245.9	3242.8	3244.3	3250.6
5°	3242.8	3247.5	3256.8	3264.7	3278.8	3285.1	3292.9	3300.8	3302.4	3307.1	3311.8
7.5°	3242.8	3258.5	3269.4	3283.5	3302.4	3313.3	3330.6	3344.7	3351.0	3358.8	3368.2
10°	3236.4	3252.1	3272.5	3288.2	3311.8	3329.0	3346.3	3368.2	3377.7	3390.2	3402.8
12.5°	3223.9	3241.2	3263.1	3283.5	3310.2	3325.9	3347.8	3368.2	3382.4	3399.6	3413.8
15°	3205.1	3225.5	3245.9	3266.3	3294.5	3313.3	3333.8	3357.3	3371.4	3390.2	3402.8
17.5°	3175.3	3197.2	3216.1	3234.9	3261.6	3283.5	3302.4	3324.3	3338.5	3354.2	3371.4
20°	3139.2	3159.6	3180.0	3195.7	3222.4	3241.2	3261.6	3282.0	3292.9	3296.1	3322.8
22.5°	3093.7	3107.8	3123.5	3148.6	3164.3	3181.6	3200.4	3219.2	3230.2	3247.5	3256.8
25°	3018.4	3032.5	3049.8	3060.7	3079.6	3093.7	3112.5	3132.9	3139.2	3151.8	3161.1
27.5°	2913.3	2921.1	2929.0	2938.4	2949.3	2957.2	2968.2	2977.6	2983.9	2990.2	2996.4
30°	2747.0	2747.0	2747.0	2740.7	2745.4	2750.1	2751.7	2750.1	2750.1	2748.6	2748.6
32.5°	2527.4	2514.8	2500.7	2488.2	2483.4	2477.2	2474.0	2469.3	2461.5	2456.8	2458.3
35°	2230.8	2202.6	2185.4	2169.7	2157.2	2147.7	2143.0	2138.3	2136.7	2130.5	2124.2
37.5°	1860.6	1840.2	1827.7	1818.3	1807.3	1797.9	1799.4	1801.0	1805.7	1802.6	1804.1
40°	1468.4	1463.7	1468.4	1457.4	1454.3	1457.4	1465.2	1476.3	1482.5	1488.8	1499.8
42.5°	1117.0	1124.8	1135.9	1135.9	1140.5	1146.8	1156.2	1173.5	1182.9	1193.8	1206.4
45°	840.9	850.3	864.4	869.1	872.3	880.1	891.1	905.2	911.5	920.9	931.9
47.5°	647.9	654.2	662.0	669.9	677.7	680.9	691.8	691.8	699.7	706.0	709.1
50°	505.2	511.4	517.7	522.4	525.6	530.3	533.4	538.1	539.6	542.8	544.4
52.5°	395.3	403.2	403.2	406.3	411.0	415.7	414.2	415.7	417.3	417.3	422.0
55°	309.1	309.1	313.8	313.8	316.9	315.3	316.9	316.9	316.9	316.9	318.5
57.5°	230.6	232.2	236.9	233.8	232.2	235.3	232.2	235.3	233.8	236.9	232.2
60°	177.3	177.3	178.9	178.9	180.4	180.4	180.4	178.9	178.9	177.3	177.3
62.5°	133.3	134.9	136.5	134.9	134.9	134.9	133.3	133.3	131.8	130.2	130.2
65°	89.4	87.9	91.0	87.9	89.4	89.4	87.9	89.4	84.7	86.3	84.7
67.5°	64.3	62.8	61.2	62.8	61.2	59.6	59.6	61.2	62.8	58.1	58.1
70°	42.4	43.9	42.4	43.9	45.5	45.5	43.9	42.4	43.9	40.8	42.4
72.5°	26.7	26.7	26.7	26.7	26.7	28.2	28.2	28.2	25.1	25.1	23.5
75°	12.5	17.2	14.1	12.5	17.2	17.2	15.7	15.7	14.1	14.1	14.1
77.5°	12.5	9.4	9.4	9.4	9.4	9.4	9.4	9.4	7.8	9.4	7.8
80°	6.3	6.3	6.3	4.7	6.3	6.3	7.8	6.3	6.3	4.7	7.8
82.5°	3.2	3.2	3.2	0.0	1.5	3.2	3.2	1.5	3.2	3.2	1.5
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: P245981

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9
2.5°	3249.0	3247.5	3249.0	3250.6	3249.0	3247.5	3249.0	3250.6	3244.3	3242.8	3245.9
5°	3318.1	3318.1	3321.2	3322.8	3321.2	3318.1	3318.1	3311.8	3307.1	3302.4	3300.8
7.5°	3377.7	3380.8	3383.9	3385.5	3383.9	3380.8	3377.7	3368.2	3358.8	3351.0	3344.7
10°	3413.8	3418.5	3424.7	3427.8	3424.7	3418.5	3413.8	3402.8	3390.2	3377.7	3368.2
12.5°	3429.4	3434.2	3442.0	3440.4	3442.0	3434.2	3429.4	3413.8	3399.6	3382.4	3368.2
15°	3418.5	3424.7	3432.5	3435.7	3432.5	3424.7	3418.5	3402.8	3390.2	3371.4	3357.3
17.5°	3383.9	3393.4	3398.1	3402.8	3398.1	3393.4	3383.9	3371.4	3354.2	3338.5	3324.3
20°	3336.9	3343.2	3349.4	3351.0	3349.4	3343.2	3336.9	3322.8	3296.1	3292.9	3282.0
22.5°	3269.4	3274.1	3288.2	3283.5	3288.2	3274.1	3269.4	3256.8	3247.5	3230.2	3219.2
25°	3172.1	3176.8	3178.5	3180.0	3178.5	3176.8	3172.1	3161.1	3151.8	3139.2	3132.9
27.5°	3004.3	3004.3	3007.4	3009.0	3007.4	3004.3	3004.3	2996.4	2990.2	2983.9	2977.6
30°	2750.1	2750.1	2750.1	2758.0	2750.1	2750.1	2750.1	2748.6	2748.6	2750.1	2750.1
32.5°	2456.8	2453.6	2450.5	2453.6	2450.5	2453.6	2456.8	2458.3	2456.8	2461.5	2469.3
35°	2124.2	2122.6	2127.3	2121.1	2127.3	2122.6	2124.2	2124.2	2130.5	2136.7	2138.3
37.5°	1805.7	1802.6	1808.8	1802.6	1808.8	1802.6	1805.7	1804.1	1802.6	1805.7	1801.0
40°	1503.0	1506.1	1506.1	1518.6	1506.1	1506.1	1503.0	1499.8	1488.8	1482.5	1476.3
42.5°	1212.7	1222.1	1219.0	1228.4	1219.0	1222.1	1212.7	1206.4	1193.8	1182.9	1173.5
45°	938.1	944.5	944.5	947.6	944.5	944.5	938.1	931.9	920.9	911.5	905.2
47.5°	720.1	720.1	720.1	721.7	720.1	720.1	720.1	709.1	706.0	699.7	691.8
50°	547.5	549.1	550.7	552.2	550.7	549.1	547.5	544.4	542.8	539.6	538.1
52.5°	420.4	422.0	418.9	422.0	418.9	422.0	420.4	422.0	417.3	417.3	415.7
55°	318.5	316.9	318.5	320.0	318.5	316.9	318.5	318.5	316.9	316.9	316.9
57.5°	233.8	230.6	230.6	230.6	230.6	230.6	233.8	232.2	236.9	233.8	235.3
60°	174.2	175.7	175.7	177.3	175.7	175.7	174.2	177.3	177.3	178.9	178.9
62.5°	128.6	133.3	130.2	133.3	130.2	133.3	128.6	130.2	130.2	131.8	133.3
65°	83.2	83.2	83.2	84.7	83.2	83.2	83.2	84.7	86.3	84.7	89.4
67.5°	56.5	58.1	61.2	59.6	61.2	58.1	56.5	58.1	58.1	62.8	61.2
70°	45.5	40.8	40.8	45.5	40.8	40.8	45.5	42.4	40.8	43.9	42.4
72.5°	26.7	23.5	26.7	26.7	26.7	23.5	26.7	23.5	25.1	25.1	28.2
75°	14.1	12.5	11.0	15.7	11.0	12.5	14.1	14.1	14.1	14.1	15.7
77.5°	9.4	7.8	11.0	11.0	11.0	7.8	9.4	7.8	9.4	7.8	9.4
80°	4.7	6.3	4.7	7.8	4.7	6.3	4.7	7.8	4.7	6.3	6.3
82.5°	1.5	3.2	3.2	3.2	3.2	3.2	1.5	1.5	3.2	3.2	1.5
85°	0.0	3.2	1.5	1.5	1.5	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.0	0.0	1.5	0.0	0.0	1.5	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: P245981

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9
2.5°	3245.9	3241.2	3242.8	3233.3	3233.3	3230.2	3231.8	3223.9	3220.8	3217.6	3222.4
5°	3292.9	3285.1	3278.8	3264.7	3256.8	3247.5	3242.8	3230.2	3219.2	3209.8	3208.2
7.5°	3330.6	3313.3	3302.4	3283.5	3269.4	3258.5	3242.8	3225.5	3211.4	3198.8	3189.4
10°	3346.3	3329.0	3311.8	3288.2	3272.5	3252.1	3236.4	3214.5	3195.7	3178.5	3167.4
12.5°	3347.8	3325.9	3310.2	3283.5	3263.1	3241.2	3223.9	3198.8	3176.8	3159.6	3142.4
15°	3333.8	3313.3	3294.5	3266.3	3245.9	3225.5	3205.1	3178.5	3158.0	3137.6	3125.1
17.5°	3302.4	3283.5	3261.6	3234.9	3216.1	3197.2	3175.3	3153.3	3129.8	3107.8	3092.1
20°	3261.6	3241.2	3222.4	3195.7	3180.0	3159.6	3139.2	3115.7	3096.8	3074.9	3057.6
22.5°	3200.4	3181.6	3164.3	3148.6	3123.5	3107.8	3093.7	3067.1	3048.2	3027.8	3009.0
25°	3112.5	3093.7	3079.6	3060.7	3049.8	3032.5	3018.4	2994.9	2977.6	2958.8	2943.1
27.5°	2968.2	2957.2	2949.3	2938.4	2929.0	2921.1	2913.3	2894.5	2881.9	2864.7	2849.0
30°	2751.7	2750.1	2745.4	2740.7	2747.0	2747.0	2747.0	2743.9	2732.9	2720.3	2709.3
32.5°	2474.0	2477.2	2483.4	2488.2	2500.7	2514.8	2527.4	2533.6	2533.6	2525.8	2521.1
35°	2143.0	2147.7	2157.2	2169.7	2185.4	2202.6	2230.8	2237.2	2241.8	2241.8	2235.5
37.5°	1799.4	1797.9	1807.3	1818.3	1827.7	1840.2	1860.6	1865.3	1873.2	1870.1	1863.7
40°	1465.2	1457.4	1454.3	1457.4	1468.4	1463.7	1468.4	1465.2	1465.2	1454.3	1454.3
42.5°	1156.2	1146.8	1140.5	1135.9	1135.9	1124.8	1117.0	1109.2	1104.5	1096.6	1095.0
45°	891.1	880.1	872.3	869.1	864.4	850.3	840.9	831.5	820.5	817.4	818.9
47.5°	691.8	680.9	677.7	669.9	662.0	654.2	647.9	637.0	635.3	629.1	635.3
50°	533.4	530.3	525.6	522.4	517.7	511.4	505.2	498.9	495.7	495.7	497.3
52.5°	414.2	415.7	411.0	406.3	403.2	403.2	395.3	393.8	393.8	387.5	393.8
55°	316.9	315.3	316.9	313.8	313.8	309.1	309.1	304.3	304.3	299.6	302.8
57.5°	232.2	235.3	232.2	233.8	236.9	232.2	230.6	225.9	229.0	225.9	227.5
60°	180.4	180.4	180.4	178.9	178.9	177.3	177.3	175.7	175.7	172.5	175.7
62.5°	133.3	134.9	134.9	134.9	136.5	134.9	133.3	134.9	133.3	133.3	134.9
65°	87.9	89.4	89.4	87.9	91.0	87.9	89.4	91.0	92.5	91.0	92.5
67.5°	59.6	59.6	61.2	62.8	61.2	62.8	64.3	62.8	64.3	67.5	64.3
70°	43.9	45.5	45.5	43.9	42.4	43.9	42.4	47.1	47.1	47.1	50.2
72.5°	28.2	28.2	26.7	26.7	26.7	26.7	26.7	31.4	28.2	26.7	29.8
75°	15.7	17.2	17.2	12.5	14.1	17.2	12.5	14.1	18.9	15.7	18.9
77.5°	9.4	9.4	9.4	9.4	9.4	9.4	12.5	11.0	11.0	11.0	12.5
80°	7.8	6.3	6.3	4.7	6.3	6.3	6.3	9.4	7.8	7.8	9.4
82.5°	3.2	3.2	1.5	0.0	3.2	3.2	3.2	3.2	3.2	3.2	6.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	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: P245981

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9
2.5°	3209.8	3209.8	3208.2	3205.1	3198.8	3198.8	3197.2	3192.5	3189.4	3187.8	3187.8
5°	3194.1	3187.8	3181.6	3164.3	3164.3	3161.1	3151.8	3145.5	3142.4	3134.5	3131.4
7.5°	3180.0	3161.1	3150.2	3139.2	3125.1	3118.8	3107.8	3103.1	3092.1	3084.3	3079.6
10°	3145.5	3132.9	3118.8	3101.5	3090.6	3078.0	3065.4	3056.1	3041.9	3034.1	3027.8
12.5°	3121.9	3103.1	3090.6	3071.7	3052.9	3041.9	3024.7	3013.7	2999.6	2983.9	2974.5
15°	3100.0	3079.6	3062.3	3041.9	3021.5	3009.0	2988.6	2976.1	2955.7	2940.0	2929.0
17.5°	3067.1	3049.8	3031.0	3005.8	2987.1	2971.4	2949.3	2933.7	2914.9	2894.5	2883.5
20°	3032.5	3012.1	2993.3	2968.2	2949.3	2930.6	2908.6	2891.4	2869.3	2850.5	2838.0
22.5°	2987.1	2963.5	2947.8	2922.7	2900.7	2880.4	2860.0	2839.6	2819.2	2803.5	2789.3
25°	2921.1	2896.0	2878.8	2858.4	2838.0	2822.3	2797.2	2784.7	2764.3	2750.1	2736.0
27.5°	2827.0	2808.2	2792.5	2772.1	2754.8	2742.3	2723.5	2710.9	2693.6	2681.1	2670.1
30°	2689.0	2673.3	2659.1	2638.7	2626.2	2615.2	2597.9	2587.0	2574.4	2560.3	2557.2
32.5°	2503.8	2491.3	2477.2	2463.0	2453.6	2447.3	2433.2	2426.9	2414.4	2406.5	2398.7
35°	2224.6	2213.6	2205.8	2199.5	2196.3	2197.9	2194.8	2201.1	2204.2	2202.6	2204.2
37.5°	1859.1	1852.8	1855.9	1860.6	1876.3	1896.7	1915.5	1943.7	1962.6	1981.4	1998.7
40°	1451.2	1455.9	1468.4	1496.6	1537.4	1583.0	1625.3	1678.7	1732.0	1769.6	1804.1
42.5°	1095.0	1109.2	1140.5	1181.3	1242.5	1309.9	1375.9	1454.3	1518.6	1581.3	1625.3
45°	823.6	842.4	883.2	939.7	1007.2	1085.6	1168.8	1256.6	1333.5	1397.8	1446.5
47.5°	641.7	658.9	699.7	759.3	842.4	924.1	1010.3	1101.3	1181.3	1244.1	1286.4
50°	506.7	528.7	564.8	627.5	710.7	797.0	886.4	975.8	1051.1	1104.5	1142.1
52.5°	398.5	418.9	453.4	519.3	604.0	690.3	773.4	861.3	927.2	978.9	1004.1
55°	309.1	327.9	363.9	418.9	498.9	583.6	666.7	742.1	803.2	840.9	864.4
57.5°	235.3	249.4	274.6	329.5	401.6	480.0	550.7	626.0	673.1	699.7	715.3
60°	178.9	189.8	216.5	258.9	324.7	392.2	451.8	508.3	546.0	567.9	583.6
62.5°	134.9	147.5	166.3	202.4	252.5	307.5	357.7	400.0	431.4	445.6	456.5
65°	92.5	102.0	116.1	144.3	186.7	225.9	265.1	296.5	316.9	332.6	338.9
67.5°	69.0	75.3	83.2	105.1	134.9	166.3	192.9	214.9	236.9	243.2	254.2
70°	51.8	56.5	64.3	80.0	97.2	119.2	141.2	153.8	169.4	180.4	183.6
72.5°	32.9	34.5	42.4	51.8	65.9	80.0	94.1	105.1	114.6	120.8	123.9
75°	18.9	28.2	28.2	37.6	47.1	53.3	62.8	70.6	75.3	80.0	80.0
77.5°	12.5	17.2	18.9	23.5	28.2	36.1	43.9	48.6	53.3	54.9	54.9
80°	11.0	12.5	12.5	17.2	20.4	26.7	31.4	32.9	36.1	37.6	40.8
82.5°	4.7	6.3	7.8	12.5	14.1	14.1	18.9	20.4	23.5	25.1	25.1
85°	1.5	3.2	3.2	4.7	7.8	9.4	11.0	12.5	14.1	14.1	15.7
87.5°	1.5	1.5	0.0	1.5	3.2	3.2	6.3	6.3	6.3	9.4	9.4
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: P245981

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9	3212.9
2.5°	3184.7	3186.3	3180.0	3178.5	3175.3	3176.8	3180.0
5°	3126.7	3128.2	3121.9	3115.7	3115.7	3114.1	3115.7
7.5°	3071.7	3073.3	3063.9	3060.7	3054.5	3056.1	3056.1
10°	3016.8	3016.8	3002.7	3001.1	2996.4	2994.9	2994.9
12.5°	2963.5	2958.8	2947.8	2941.5	2944.7	2935.3	2935.3
15°	2916.4	2908.6	2894.5	2889.7	2881.9	2878.8	2878.8
17.5°	2867.8	2861.5	2849.0	2839.6	2830.1	2828.6	2830.1
20°	2820.7	2814.4	2798.8	2792.5	2784.7	2784.7	2781.5
22.5°	2773.6	2767.4	2753.3	2748.6	2737.6	2737.6	2739.2
25°	2725.0	2720.3	2704.6	2701.5	2700.0	2693.6	2696.8
27.5°	2659.1	2656.0	2643.5	2638.7	2632.5	2630.9	2634.0
30°	2538.3	2533.6	2524.3	2519.5	2508.6	2510.1	2513.2
32.5°	2387.7	2381.5	2368.9	2364.2	2354.8	2351.6	2353.2
35°	2199.5	2194.8	2183.8	2183.8	2174.4	2171.2	2174.4
37.5°	2008.1	2012.8	2008.1	2012.8	2008.1	2006.5	2008.1
40°	1827.7	1844.9	1848.0	1865.3	1859.1	1868.4	1866.9
42.5°	1655.1	1683.3	1694.4	1708.4	1705.3	1711.6	1716.3
45°	1480.9	1504.5	1515.5	1524.9	1526.5	1529.6	1531.2
47.5°	1316.2	1335.1	1336.6	1347.6	1346.0	1346.0	1350.8
50°	1162.5	1175.0	1178.1	1186.0	1179.8	1176.6	1178.1
52.5°	1019.7	1032.3	1029.1	1032.3	1024.5	1021.3	1022.8
55°	873.8	880.1	880.1	880.1	870.7	870.7	870.7
57.5°	724.8	726.4	723.2	724.8	723.2	713.8	712.2
60°	588.3	588.3	586.7	588.3	583.6	578.9	578.9
62.5°	459.6	462.8	469.1	462.8	459.6	462.8	458.1
65°	343.6	349.9	348.2	351.4	349.9	349.9	346.7
67.5°	258.9	260.4	262.0	263.6	263.6	263.6	263.6
70°	189.8	194.6	192.9	192.9	192.9	192.9	202.4
72.5°	127.1	133.3	131.8	134.9	134.9	138.1	134.9
75°	86.3	92.5	89.4	94.1	92.5	89.4	97.2
77.5°	58.1	61.2	62.8	64.3	62.8	61.2	62.8
80°	40.8	43.9	42.4	43.9	43.9	43.9	45.5
82.5°	25.1	29.8	28.2	29.8	28.2	29.8	29.8
85°	17.2	18.9	15.7	18.9	17.2	17.2	20.4
87.5°	11.0	9.4	9.4	11.0	9.4	11.0	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)