

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: P244967

Luminaire Tested: **LD8B50D010 ER8B50835 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244967  
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 ER8B50835 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3500 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5457.0 lumens  
Efficiency: N/A  
Efficacy: 103.0 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

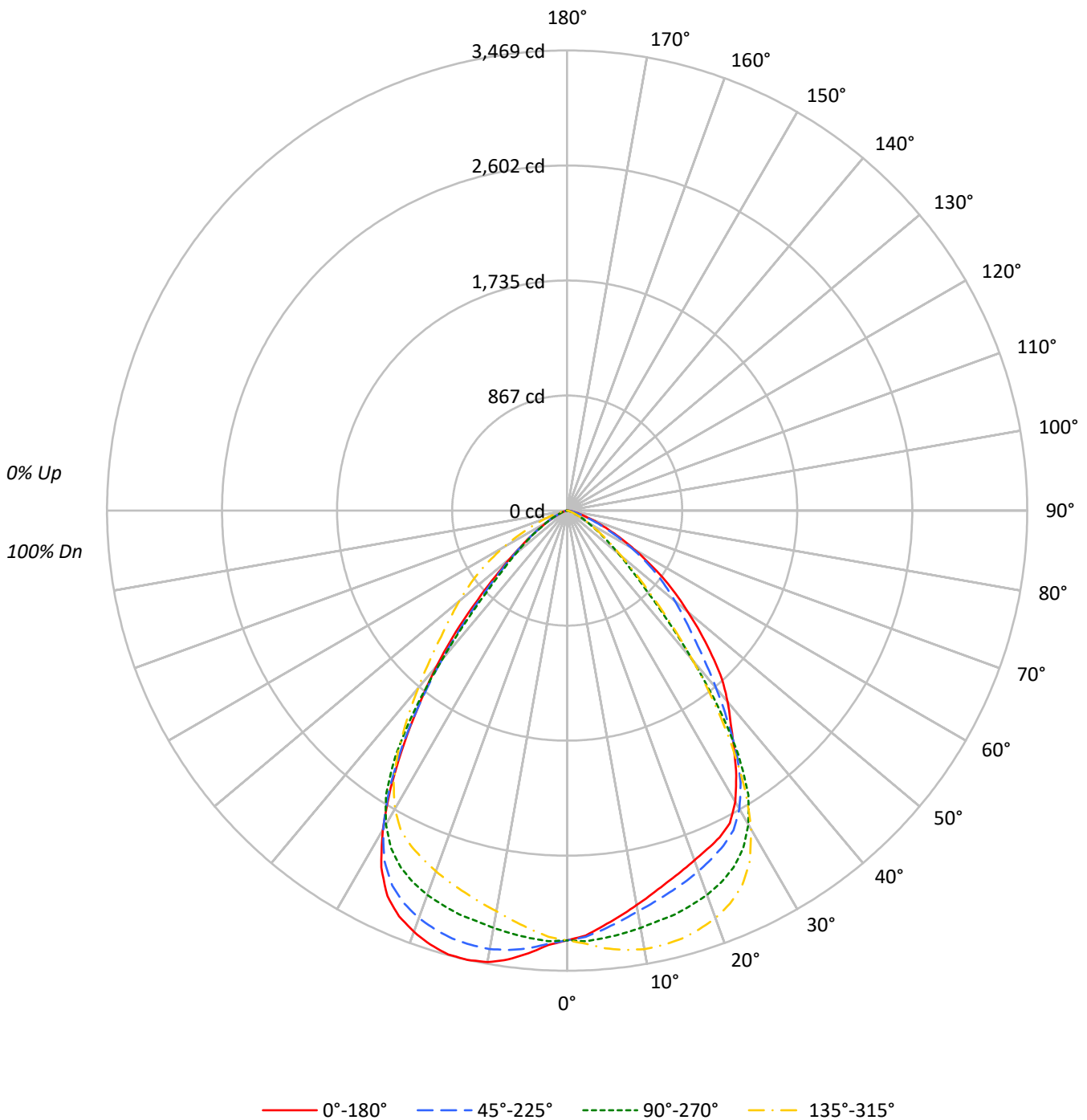
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P244967

CATALOG NUMBER: LD8B50D010 ER8B50835 8LBSW0WMH

### Luminous Intensity Polar Plot





TEST NUMBER: P244967

CATALOG NUMBER: LD8B50D010 ER8B50835 8LBSW0WMH

**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°	99897	99897	99897	99897
5°	97245	100133	103709	100133
10°	94556	100001	108224	100001
15°	92666	100596	110595	100596
20°	92034	101173	110880	101173
25°	92518	100970	109095	100970
30°	90231	97270	99019	97270
35°	82535	84854	80510	84854
40°	75774	59028	61641	59028
45°	67328	36008	41664	36008
50°	56987	24054	26711	24054
55°	47203	16413	17349	16413
60°	35998	10928	11021	10928
65°	25509	6808	6231	6808
70°	18402	4562	4138	4562
75°	11688	2264	1882	2264
80°	8151	1687	1403	1687
85°	7288	0	566	0



TEST NUMBER: P244967

CATALOG NUMBER: LD8B50D010 ER8B50835 8LBSW0WMH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.4	5.7
10°-20°	892.9	16.4
20°-30°	1352.1	24.8
30°-40°	1355.1	24.8
40°-50°	850.9	15.6
50°-60°	453.5	8.3
60°-70°	186.5	3.4
70°-80°	49.3	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°	2553.4	46.8
0°-40°	3908.5	71.6
0°-60°	5212.9	95.5
0°-90°	5457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5457.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3240	3240	3240	3240	3240	
5°	3142	3235	3350	3235	3142	296
15°	2903	3151	3464	3151	2903	821
25°	2719	2968	3206	2968	2719	1247
35°	2192	2254	2139	2254	2192	1374
45°	1544	826	955	826	1544	1187
55°	878	305	323	305	878	783
65°	350	93	85	93	350	363
75°	98	19	16	19	98	111
85°	21	0	2	0	21	23
90°	0	0	0	0	0	



TEST NUMBER: P244967

CATALOG NUMBER: LD8B50D010 ER8B50835 8LBSW0WMH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6
2.5°	3206.4	3203.3	3201.7	3204.9	3206.4	3212.8	3211.2	3214.3	3214.3	3215.9	3219.1
5°	3141.6	3140.0	3141.6	3141.6	3147.9	3154.2	3152.7	3157.4	3160.5	3168.5	3171.6
7.5°	3081.5	3081.5	3079.9	3086.2	3089.4	3098.9	3097.3	3105.2	3109.9	3117.8	3128.9
10°	3019.8	3019.8	3021.3	3026.1	3027.7	3041.9	3041.9	3053.0	3059.3	3067.2	3081.5
12.5°	2959.7	2959.7	2969.2	2966.0	2972.3	2983.4	2988.1	2999.2	3008.7	3024.5	3038.8
15°	2902.7	2902.7	2905.9	2913.8	2918.5	2932.8	2940.7	2953.4	2964.4	2980.2	3000.8
17.5°	2853.7	2852.1	2853.7	2863.2	2872.7	2885.3	2891.6	2907.5	2918.5	2939.1	2958.1
20°	2804.6	2807.8	2807.8	2815.7	2822.0	2837.8	2844.2	2861.6	2874.2	2893.2	2915.4
22.5°	2761.9	2760.4	2760.4	2771.4	2776.2	2790.4	2796.7	2812.5	2826.8	2842.6	2863.2
25°	2719.2	2716.0	2722.4	2724.0	2727.1	2742.9	2747.7	2758.7	2773.0	2787.3	2807.8
27.5°	2655.9	2652.8	2654.4	2660.7	2665.4	2678.1	2681.3	2692.3	2703.4	2716.0	2733.5
30°	2534.1	2531.0	2529.4	2540.5	2545.2	2554.7	2559.4	2578.4	2581.6	2595.8	2608.5
32.5°	2372.8	2371.2	2374.4	2383.8	2388.6	2401.3	2407.6	2418.7	2426.5	2434.5	2447.1
35°	2192.5	2189.3	2192.5	2202.0	2202.0	2213.0	2217.8	2222.5	2220.9	2222.5	2219.4
37.5°	2024.8	2023.2	2024.8	2029.5	2024.8	2029.5	2024.8	2015.3	1997.9	1978.9	1959.9
40°	1882.4	1884.0	1874.5	1880.9	1863.4	1860.3	1842.9	1819.1	1784.4	1746.4	1692.6
42.5°	1730.6	1725.8	1719.5	1722.6	1708.4	1697.3	1668.9	1638.8	1594.5	1531.3	1466.4
45°	1543.9	1542.3	1539.2	1537.6	1528.1	1517.0	1493.2	1458.5	1409.5	1344.6	1267.1
47.5°	1362.0	1357.2	1357.2	1358.8	1347.7	1346.2	1327.2	1297.1	1254.4	1191.1	1110.5
50°	1187.9	1186.4	1189.6	1195.9	1187.9	1184.8	1172.2	1151.6	1113.7	1059.9	983.9
52.5°	1031.4	1029.8	1033.0	1040.9	1037.7	1040.9	1028.2	1012.4	987.1	934.9	868.4
55°	878.0	878.0	878.0	887.4	887.4	887.4	881.1	871.6	847.9	809.9	748.3
57.5°	718.2	719.7	729.2	730.8	729.2	732.4	730.8	721.3	705.5	678.6	631.2
60°	583.7	583.7	588.5	593.2	591.6	593.2	593.2	588.5	572.6	550.5	512.6
62.5°	461.9	466.6	463.5	466.6	473.0	466.6	463.5	460.3	449.3	435.0	403.4
65°	349.6	352.8	352.8	354.3	351.1	352.8	346.5	341.7	335.4	319.6	299.0
67.5°	265.8	265.8	265.8	265.8	264.2	262.6	261.0	256.3	245.2	238.9	216.7
70°	204.1	194.6	194.6	194.6	194.6	196.2	191.4	185.1	181.9	170.9	155.0
72.5°	136.0	139.2	136.0	136.0	132.9	134.5	128.1	124.9	121.8	115.5	106.0
75°	98.1	90.2	93.3	94.9	90.2	93.3	87.0	80.7	80.7	75.9	71.2
77.5°	63.3	61.7	63.3	64.9	63.3	61.7	58.5	55.3	55.3	53.8	49.0
80°	45.9	44.3	44.3	44.3	42.7	44.3	41.1	41.1	38.0	36.4	33.2
82.5°	30.1	30.1	28.5	30.1	28.5	30.1	25.3	25.3	25.3	23.7	20.6
85°	20.6	17.4	17.4	19.0	15.8	19.0	17.4	15.8	14.3	14.3	12.6
87.5°	9.5	11.1	9.5	11.1	9.5	9.5	11.1	9.5	9.5	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



TEST NUMBER: P244967

CATALOG NUMBER: LD8B50D010 ER8B50835 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6
2.5°	3223.8	3225.4	3225.4	3231.8	3234.9	3236.5	3236.5	3249.2	3244.4	3247.6	3250.7
5°	3178.0	3187.4	3190.6	3190.6	3208.0	3214.3	3220.6	3234.9	3236.5	3246.0	3257.0
7.5°	3133.6	3144.7	3151.1	3165.3	3176.4	3187.4	3206.4	3215.9	3225.4	3238.1	3252.3
10°	3090.9	3103.6	3116.3	3127.3	3144.7	3159.0	3171.6	3193.7	3204.9	3222.3	3241.2
12.5°	3049.9	3067.2	3078.3	3097.3	3116.3	3128.9	3147.9	3168.5	3185.9	3203.3	3225.4
15°	3013.5	3034.0	3046.7	3067.2	3087.8	3105.2	3125.8	3151.1	3163.7	3184.3	3204.9
17.5°	2973.9	2996.1	3011.9	3030.8	3056.2	3075.1	3092.6	3117.8	3133.6	3155.8	3179.6
20°	2932.8	2954.9	2973.9	2992.9	3018.2	3037.2	3057.7	3083.1	3100.4	3122.6	3141.6
22.5°	2883.8	2904.3	2924.8	2947.0	2972.3	2988.1	3011.9	3034.0	3053.0	3073.6	3092.6
25°	2820.5	2845.8	2861.6	2882.1	2902.7	2920.1	2945.4	2967.6	2983.4	3002.4	3019.8
27.5°	2746.1	2765.1	2777.8	2795.1	2815.7	2831.5	2850.5	2872.7	2888.5	2905.9	2918.5
30°	2619.5	2637.0	2648.1	2660.7	2681.3	2695.5	2711.3	2731.8	2742.9	2755.6	2766.7
32.5°	2453.4	2467.7	2474.0	2483.5	2497.8	2512.0	2524.7	2542.1	2546.8	2554.7	2554.7
35°	2213.0	2216.2	2214.6	2217.8	2224.1	2232.0	2243.1	2254.1	2260.4	2260.4	2255.8
37.5°	1931.4	1912.5	1891.9	1876.1	1871.3	1868.2	1874.5	1879.2	1885.6	1888.7	1880.9
40°	1638.8	1596.1	1550.2	1509.1	1480.6	1468.0	1463.2	1466.4	1466.4	1477.4	1477.4
42.5°	1387.3	1320.8	1252.9	1191.1	1150.0	1118.4	1104.1	1104.1	1105.7	1113.7	1118.4
45°	1178.5	1094.6	1015.5	947.6	890.6	849.4	830.5	825.7	824.2	827.3	838.4
47.5°	1018.7	931.7	849.4	765.6	705.5	664.4	647.0	640.6	634.3	640.6	642.3
50°	893.8	803.6	716.6	632.7	569.5	533.1	510.9	501.4	499.9	499.9	503.0
52.5°	779.8	696.0	609.0	523.6	457.1	422.4	401.8	397.0	390.7	397.0	397.0
55°	672.3	588.5	503.0	422.4	367.0	330.6	311.6	305.3	302.1	306.9	306.9
57.5°	555.3	484.0	405.0	332.2	276.9	251.5	237.3	229.4	227.8	230.9	227.8
60°	455.6	395.5	327.4	261.0	218.3	191.4	180.4	177.2	174.0	177.2	177.2
62.5°	360.6	310.1	254.6	204.1	167.7	148.7	136.0	136.0	134.5	134.5	136.0
65°	267.3	227.8	188.2	145.5	117.1	102.8	93.3	93.3	91.7	93.3	91.7
67.5°	194.6	167.7	136.0	106.0	83.9	75.9	69.6	64.9	68.0	64.9	63.3
70°	142.4	120.2	98.1	80.7	64.9	57.0	52.2	50.6	47.5	47.5	47.5
72.5°	94.9	80.7	66.4	52.2	42.7	34.8	33.2	30.1	26.9	28.5	31.6
75°	63.3	53.8	47.5	38.0	28.5	28.5	19.0	19.0	15.8	19.0	14.3
77.5°	44.3	36.4	28.5	23.7	19.0	17.4	12.6	12.6	11.1	11.1	11.1
80°	31.6	26.9	20.6	17.4	12.6	12.6	11.1	9.5	7.9	7.9	9.5
82.5°	19.0	14.3	14.3	12.6	7.9	6.3	4.8	6.3	3.2	3.2	3.2
85°	11.1	9.5	7.9	4.8	3.2	3.2	1.6	0.0	1.6	1.6	0.0
87.5°	6.3	3.2	3.2	1.6	0.0	1.6	1.6	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



TEST NUMBER: P244967

CATALOG NUMBER: LD8B50D010 ER8B50835 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6
2.5°	3258.7	3257.0	3260.2	3260.2	3269.7	3268.1	3272.9	3272.9	3269.7	3271.3	3277.6
5°	3269.7	3274.5	3283.9	3291.9	3306.1	3312.4	3320.3	3328.3	3329.8	3334.6	3339.3
7.5°	3269.7	3285.6	3296.6	3310.8	3329.8	3340.9	3358.3	3372.5	3378.9	3386.7	3396.2
10°	3263.3	3279.2	3299.7	3315.6	3339.3	3356.7	3374.1	3396.2	3405.7	3418.4	3431.1
12.5°	3250.7	3268.1	3290.2	3310.8	3337.7	3353.5	3375.7	3396.2	3410.5	3427.9	3442.1
15°	3231.8	3252.3	3272.9	3293.4	3321.9	3340.9	3361.5	3385.2	3399.4	3418.4	3431.1
17.5°	3201.7	3223.8	3242.8	3261.8	3288.7	3310.8	3329.8	3352.0	3366.2	3382.0	3399.4
20°	3165.3	3185.9	3206.4	3222.3	3249.2	3268.1	3288.7	3309.3	3320.3	3323.5	3350.4
22.5°	3119.5	3133.6	3149.5	3174.8	3190.6	3208.0	3227.0	3246.0	3257.0	3274.5	3283.9
25°	3043.5	3057.7	3075.1	3086.2	3105.2	3119.5	3138.4	3159.0	3165.3	3178.0	3187.4
27.5°	2937.5	2945.4	2953.4	2962.8	2973.9	2981.8	2992.9	3002.4	3008.7	3015.0	3021.3
30°	2769.8	2769.8	2769.8	2763.5	2768.2	2773.0	2774.6	2773.0	2773.0	2771.4	2771.4
32.5°	2548.4	2535.7	2521.5	2508.8	2504.1	2497.8	2494.6	2489.8	2482.0	2477.2	2478.8
35°	2249.4	2220.9	2203.5	2187.7	2175.1	2165.6	2160.8	2156.1	2154.5	2148.2	2141.8
37.5°	1876.1	1855.5	1842.9	1833.4	1822.3	1812.8	1814.4	1816.0	1820.7	1817.6	1819.1
40°	1480.6	1475.9	1480.6	1469.5	1466.4	1469.5	1477.4	1488.6	1494.9	1501.2	1512.3
42.5°	1126.3	1134.2	1145.3	1145.3	1150.0	1156.4	1165.8	1183.3	1192.7	1203.8	1216.5
45°	847.9	857.4	871.6	876.3	879.5	887.4	898.5	912.7	919.0	928.5	939.6
47.5°	653.3	659.6	667.5	675.5	683.3	686.5	697.6	697.6	705.5	711.9	715.0
50°	509.4	515.7	522.0	526.7	529.9	534.7	537.8	542.6	544.1	547.3	548.9
52.5°	398.6	406.6	406.6	409.7	414.4	419.2	417.6	419.2	420.7	420.7	425.5
55°	311.6	311.6	316.4	316.4	319.6	317.9	319.6	319.6	319.6	319.6	321.1
57.5°	232.5	234.1	238.9	235.7	234.1	237.3	234.1	237.3	235.7	238.9	234.1
60°	178.7	178.7	180.4	180.4	181.9	181.9	181.9	180.4	180.4	178.7	178.7
62.5°	134.5	136.0	137.6	136.0	136.0	136.0	134.5	134.5	132.9	131.3	131.3
65°	90.2	88.6	91.7	88.6	90.2	90.2	88.6	90.2	85.4	87.0	85.4
67.5°	64.9	63.3	61.7	63.3	61.7	60.1	60.1	61.7	63.3	58.5	58.5
70°	42.7	44.3	42.7	44.3	45.9	45.9	44.3	42.7	44.3	41.1	42.7
72.5°	26.9	26.9	26.9	26.9	26.9	28.5	28.5	28.5	25.3	25.3	23.7
75°	12.6	17.4	14.3	12.6	17.4	17.4	15.8	15.8	14.3	14.3	14.3
77.5°	12.6	9.5	9.5	9.5	9.5	9.5	9.5	9.5	7.9	9.5	7.9
80°	6.3	6.3	6.3	4.8	6.3	6.3	7.9	6.3	6.3	4.8	7.9
82.5°	3.2	3.2	3.2	0.0	1.6	3.2	3.2	1.6	3.2	3.2	1.6
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: P244967

CATALOG NUMBER: LD8B50D010 ER8B50835 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6
2.5°	3276.0	3274.5	3276.0	3277.6	3276.0	3274.5	3276.0	3277.6	3271.3	3269.7	3272.9
5°	3345.6	3345.6	3348.8	3350.4	3348.8	3345.6	3345.6	3339.3	3334.6	3329.8	3328.3
7.5°	3405.7	3408.9	3412.1	3413.6	3412.1	3408.9	3405.7	3396.2	3386.7	3378.9	3372.5
10°	3442.1	3446.9	3453.2	3456.3	3453.2	3446.9	3442.1	3431.1	3418.4	3405.7	3396.2
12.5°	3458.0	3462.7	3470.6	3469.0	3470.6	3462.7	3458.0	3442.1	3427.9	3410.5	3396.2
15°	3446.9	3453.2	3461.1	3464.3	3461.1	3453.2	3446.9	3431.1	3418.4	3399.4	3385.2
17.5°	3412.1	3421.6	3426.3	3431.1	3426.3	3421.6	3412.1	3399.4	3382.0	3366.2	3352.0
20°	3364.6	3371.0	3377.3	3378.9	3377.3	3371.0	3364.6	3350.4	3323.5	3320.3	3309.3
22.5°	3296.6	3301.4	3315.6	3310.8	3315.6	3301.4	3296.6	3283.9	3274.5	3257.0	3246.0
25°	3198.5	3203.3	3204.9	3206.4	3204.9	3203.3	3198.5	3187.4	3178.0	3165.3	3159.0
27.5°	3029.3	3029.3	3032.4	3034.0	3032.4	3029.3	3029.3	3021.3	3015.0	3008.7	3002.4
30°	2773.0	2773.0	2773.0	2780.9	2773.0	2773.0	2773.0	2771.4	2771.4	2773.0	2773.0
32.5°	2477.2	2474.0	2470.9	2474.0	2470.9	2474.0	2477.2	2478.8	2477.2	2482.0	2489.8
35°	2141.8	2140.3	2145.0	2138.7	2145.0	2140.3	2141.8	2141.8	2148.2	2154.5	2156.1
37.5°	1820.7	1817.6	1823.9	1817.6	1823.9	1817.6	1820.7	1819.1	1817.6	1820.7	1816.0
40°	1515.5	1518.6	1518.6	1531.3	1518.6	1518.6	1515.5	1512.3	1501.2	1494.9	1488.6
42.5°	1222.8	1232.3	1229.1	1238.6	1229.1	1232.3	1222.8	1216.5	1203.8	1192.7	1183.3
45°	945.9	952.3	952.3	955.4	952.3	952.3	945.9	939.6	928.5	919.0	912.7
47.5°	726.0	726.0	726.0	727.7	726.0	726.0	726.0	715.0	711.9	705.5	697.6
50°	552.1	553.6	555.3	556.8	555.3	553.6	552.1	548.9	547.3	544.1	542.6
52.5°	423.9	425.5	422.4	425.5	422.4	425.5	423.9	425.5	420.7	420.7	419.2
55°	321.1	319.6	321.1	322.7	321.1	319.6	321.1	321.1	319.6	319.6	319.6
57.5°	235.7	232.5	232.5	232.5	232.5	232.5	235.7	234.1	238.9	235.7	237.3
60°	175.6	177.2	177.2	178.7	177.2	177.2	175.6	178.7	178.7	180.4	180.4
62.5°	129.7	134.5	131.3	134.5	131.3	134.5	129.7	131.3	131.3	132.9	134.5
65°	83.9	83.9	83.9	85.4	83.9	83.9	83.9	85.4	87.0	85.4	90.2
67.5°	57.0	58.5	61.7	60.1	61.7	58.5	57.0	58.5	58.5	63.3	61.7
70°	45.9	41.1	41.1	45.9	41.1	41.1	45.9	42.7	41.1	44.3	42.7
72.5°	26.9	23.7	26.9	26.9	26.9	23.7	26.9	23.7	25.3	25.3	28.5
75°	14.3	12.6	11.1	15.8	11.1	12.6	14.3	14.3	14.3	14.3	15.8
77.5°	9.5	7.9	11.1	11.1	11.1	7.9	9.5	7.9	9.5	7.9	9.5
80°	4.8	6.3	4.8	7.9	4.8	6.3	4.8	7.9	4.8	6.3	6.3
82.5°	1.6	3.2	3.2	3.2	3.2	3.2	1.6	1.6	3.2	3.2	1.6
85°	0.0	3.2	1.6	1.6	1.6	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.0	0.0	1.6	0.0	0.0	1.6	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: P244967

CATALOG NUMBER: LD8B50D010 ER8B50835 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6
2.5°	3272.9	3268.1	3269.7	3260.2	3260.2	3257.0	3258.7	3250.7	3247.6	3244.4	3249.2
5°	3320.3	3312.4	3306.1	3291.9	3283.9	3274.5	3269.7	3257.0	3246.0	3236.5	3234.9
7.5°	3358.3	3340.9	3329.8	3310.8	3296.6	3285.6	3269.7	3252.3	3238.1	3225.4	3215.9
10°	3374.1	3356.7	3339.3	3315.6	3299.7	3279.2	3263.3	3241.2	3222.3	3204.9	3193.7
12.5°	3375.7	3353.5	3337.7	3310.8	3290.2	3268.1	3250.7	3225.4	3203.3	3185.9	3168.5
15°	3361.5	3340.9	3321.9	3293.4	3272.9	3252.3	3231.8	3204.9	3184.3	3163.7	3151.1
17.5°	3329.8	3310.8	3288.7	3261.8	3242.8	3223.8	3201.7	3179.6	3155.8	3133.6	3117.8
20°	3288.7	3268.1	3249.2	3222.3	3206.4	3185.9	3165.3	3141.6	3122.6	3100.4	3083.1
22.5°	3227.0	3208.0	3190.6	3174.8	3149.5	3133.6	3119.5	3092.6	3073.6	3053.0	3034.0
25°	3138.4	3119.5	3105.2	3086.2	3075.1	3057.7	3043.5	3019.8	3002.4	2983.4	2967.6
27.5°	2992.9	2981.8	2973.9	2962.8	2953.4	2945.4	2937.5	2918.5	2905.9	2888.5	2872.7
30°	2774.6	2773.0	2768.2	2763.5	2769.8	2769.8	2769.8	2766.7	2755.6	2742.9	2731.8
32.5°	2494.6	2497.8	2504.1	2508.8	2521.5	2535.7	2548.4	2554.7	2554.7	2546.8	2542.1
35°	2160.8	2165.6	2175.1	2187.7	2203.5	2220.9	2249.4	2255.8	2260.4	2260.4	2254.1
37.5°	1814.4	1812.8	1822.3	1833.4	1842.9	1855.5	1876.1	1880.9	1888.7	1885.6	1879.2
40°	1477.4	1469.5	1466.4	1469.5	1480.6	1475.9	1480.6	1477.4	1477.4	1466.4	1466.4
42.5°	1165.8	1156.4	1150.0	1145.3	1145.3	1134.2	1126.3	1118.4	1113.7	1105.7	1104.1
45°	898.5	887.4	879.5	876.3	871.6	857.4	847.9	838.4	827.3	824.2	825.7
47.5°	697.6	686.5	683.3	675.5	667.5	659.6	653.3	642.3	640.6	634.3	640.6
50°	537.8	534.7	529.9	526.7	522.0	515.7	509.4	503.0	499.9	499.9	501.4
52.5°	417.6	419.2	414.4	409.7	406.6	406.6	398.6	397.0	397.0	390.7	397.0
55°	319.6	317.9	319.6	316.4	316.4	311.6	311.6	306.9	306.9	302.1	305.3
57.5°	234.1	237.3	234.1	235.7	238.9	234.1	232.5	227.8	230.9	227.8	229.4
60°	181.9	181.9	181.9	180.4	180.4	178.7	178.7	177.2	177.2	174.0	177.2
62.5°	134.5	136.0	136.0	136.0	137.6	136.0	134.5	136.0	134.5	134.5	136.0
65°	88.6	90.2	90.2	88.6	91.7	88.6	90.2	91.7	93.3	91.7	93.3
67.5°	60.1	60.1	61.7	63.3	61.7	63.3	64.9	63.3	64.9	68.0	64.9
70°	44.3	45.9	45.9	44.3	42.7	44.3	42.7	47.5	47.5	47.5	50.6
72.5°	28.5	28.5	26.9	26.9	26.9	26.9	26.9	31.6	28.5	26.9	30.1
75°	15.8	17.4	17.4	12.6	14.3	17.4	12.6	14.3	19.0	15.8	19.0
77.5°	9.5	9.5	9.5	9.5	9.5	9.5	12.6	11.1	11.1	11.1	12.6
80°	7.9	6.3	6.3	4.8	6.3	6.3	6.3	9.5	7.9	7.9	9.5
82.5°	3.2	3.2	1.6	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	1.6	1.6	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: P244967

CATALOG NUMBER: LD8B50D010 ER8B50835 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6
2.5°	3236.5	3236.5	3234.9	3231.8	3225.4	3225.4	3223.8	3219.1	3215.9	3214.3	3214.3
5°	3220.6	3214.3	3208.0	3190.6	3190.6	3187.4	3178.0	3171.6	3168.5	3160.5	3157.4
7.5°	3206.4	3187.4	3176.4	3165.3	3151.1	3144.7	3133.6	3128.9	3117.8	3109.9	3105.2
10°	3171.6	3159.0	3144.7	3127.3	3116.3	3103.6	3090.9	3081.5	3067.2	3059.3	3053.0
12.5°	3147.9	3128.9	3116.3	3097.3	3078.3	3067.2	3049.9	3038.8	3024.5	3008.7	2999.2
15°	3125.8	3105.2	3087.8	3067.2	3046.7	3034.0	3013.5	3000.8	2980.2	2964.4	2953.4
17.5°	3092.6	3075.1	3056.2	3030.8	3011.9	2996.1	2973.9	2958.1	2939.1	2918.5	2907.5
20°	3057.7	3037.2	3018.2	2992.9	2973.9	2954.9	2932.8	2915.4	2893.2	2874.2	2861.6
22.5°	3011.9	2988.1	2972.3	2947.0	2924.8	2904.3	2883.8	2863.2	2842.6	2826.8	2812.5
25°	2945.4	2920.1	2902.7	2882.1	2861.6	2845.8	2820.5	2807.8	2787.3	2773.0	2758.7
27.5°	2850.5	2831.5	2815.7	2795.1	2777.8	2765.1	2746.1	2733.5	2716.0	2703.4	2692.3
30°	2711.3	2695.5	2681.3	2660.7	2648.1	2637.0	2619.5	2608.5	2595.8	2581.6	2578.4
32.5°	2524.7	2512.0	2497.8	2483.5	2474.0	2467.7	2453.4	2447.1	2434.5	2426.5	2418.7
35°	2243.1	2232.0	2224.1	2217.8	2214.6	2216.2	2213.0	2219.4	2222.5	2220.9	2222.5
37.5°	1874.5	1868.2	1871.3	1876.1	1891.9	1912.5	1931.4	1959.9	1978.9	1997.9	2015.3
40°	1463.2	1468.0	1480.6	1509.1	1550.2	1596.1	1638.8	1692.6	1746.4	1784.4	1819.1
42.5°	1104.1	1118.4	1150.0	1191.1	1252.9	1320.8	1387.3	1466.4	1531.3	1594.5	1638.8
45°	830.5	849.4	890.6	947.6	1015.5	1094.6	1178.5	1267.1	1344.6	1409.5	1458.5
47.5°	647.0	664.4	705.5	765.6	849.4	931.7	1018.7	1110.5	1191.1	1254.4	1297.1
50°	510.9	533.1	569.5	632.7	716.6	803.6	893.8	983.9	1059.9	1113.7	1151.6
52.5°	401.8	422.4	457.1	523.6	609.0	696.0	779.8	868.4	934.9	987.1	1012.4
55°	311.6	330.6	367.0	422.4	503.0	588.5	672.3	748.3	809.9	847.9	871.6
57.5°	237.3	251.5	276.9	332.2	405.0	484.0	555.3	631.2	678.6	705.5	721.3
60°	180.4	191.4	218.3	261.0	327.4	395.5	455.6	512.6	550.5	572.6	588.5
62.5°	136.0	148.7	167.7	204.1	254.6	310.1	360.6	403.4	435.0	449.3	460.3
65°	93.3	102.8	117.1	145.5	188.2	227.8	267.3	299.0	319.6	335.4	341.7
67.5°	69.6	75.9	83.9	106.0	136.0	167.7	194.6	216.7	238.9	245.2	256.3
70°	52.2	57.0	64.9	80.7	98.1	120.2	142.4	155.0	170.9	181.9	185.1
72.5°	33.2	34.8	42.7	52.2	66.4	80.7	94.9	106.0	115.5	121.8	124.9
75°	19.0	28.5	28.5	38.0	47.5	53.8	63.3	71.2	75.9	80.7	80.7
77.5°	12.6	17.4	19.0	23.7	28.5	36.4	44.3	49.0	53.8	55.3	55.3
80°	11.1	12.6	12.6	17.4	20.6	26.9	31.6	33.2	36.4	38.0	41.1
82.5°	4.8	6.3	7.9	12.6	14.3	14.3	19.0	20.6	23.7	25.3	25.3
85°	1.6	3.2	3.2	4.8	7.9	9.5	11.1	12.6	14.3	14.3	15.8
87.5°	1.6	1.6	0.0	1.6	3.2	3.2	6.3	6.3	6.3	9.5	9.5
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: P244967

CATALOG NUMBER: LD8B50D010 ER8B50835 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6	3239.6
2.5°	3211.2	3212.8	3206.4	3204.9	3201.7	3203.3	3206.4
5°	3152.7	3154.2	3147.9	3141.6	3141.6	3140.0	3141.6
7.5°	3097.3	3098.9	3089.4	3086.2	3079.9	3081.5	3081.5
10°	3041.9	3041.9	3027.7	3026.1	3021.3	3019.8	3019.8
12.5°	2988.1	2983.4	2972.3	2966.0	2969.2	2959.7	2959.7
15°	2940.7	2932.8	2918.5	2913.8	2905.9	2902.7	2902.7
17.5°	2891.6	2885.3	2872.7	2863.2	2853.7	2852.1	2853.7
20°	2844.2	2837.8	2822.0	2815.7	2807.8	2807.8	2804.6
22.5°	2796.7	2790.4	2776.2	2771.4	2760.4	2760.4	2761.9
25°	2747.7	2742.9	2727.1	2724.0	2722.4	2716.0	2719.2
27.5°	2681.3	2678.1	2665.4	2660.7	2654.4	2652.8	2655.9
30°	2559.4	2554.7	2545.2	2540.5	2529.4	2531.0	2534.1
32.5°	2407.6	2401.3	2388.6	2383.8	2374.4	2371.2	2372.8
35°	2217.8	2213.0	2202.0	2202.0	2192.5	2189.3	2192.5
37.5°	2024.8	2029.5	2024.8	2029.5	2024.8	2023.2	2024.8
40°	1842.9	1860.3	1863.4	1880.9	1874.5	1884.0	1882.4
42.5°	1668.9	1697.3	1708.4	1722.6	1719.5	1725.8	1730.6
45°	1493.2	1517.0	1528.1	1537.6	1539.2	1542.3	1543.9
47.5°	1327.2	1346.2	1347.7	1358.8	1357.2	1357.2	1362.0
50°	1172.2	1184.8	1187.9	1195.9	1189.6	1186.4	1187.9
52.5°	1028.2	1040.9	1037.7	1040.9	1033.0	1029.8	1031.4
55°	881.1	887.4	887.4	887.4	878.0	878.0	878.0
57.5°	730.8	732.4	729.2	730.8	729.2	719.7	718.2
60°	593.2	593.2	591.6	593.2	588.5	583.7	583.7
62.5°	463.5	466.6	473.0	466.6	463.5	466.6	461.9
65°	346.5	352.8	351.1	354.3	352.8	352.8	349.6
67.5°	261.0	262.6	264.2	265.8	265.8	265.8	265.8
70°	191.4	196.2	194.6	194.6	194.6	194.6	204.1
72.5°	128.1	134.5	132.9	136.0	136.0	139.2	136.0
75°	87.0	93.3	90.2	94.9	93.3	90.2	98.1
77.5°	58.5	61.7	63.3	64.9	63.3	61.7	63.3
80°	41.1	44.3	42.7	44.3	44.3	44.3	45.9
82.5°	25.3	30.1	28.5	30.1	28.5	30.1	30.1
85°	17.4	19.0	15.8	19.0	17.4	17.4	20.6
87.5°	11.1	9.5	9.5	11.1	9.5	11.1	9.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)