

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: P249070

Luminaire Tested: **LD8B150D010 ER8B150927 8LBSW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249070  
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: LD8B150D010 ER8B150927 8LBSW0MW  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12596.6 lumens  
Efficiency: N/A  
Efficacy: 79.5 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

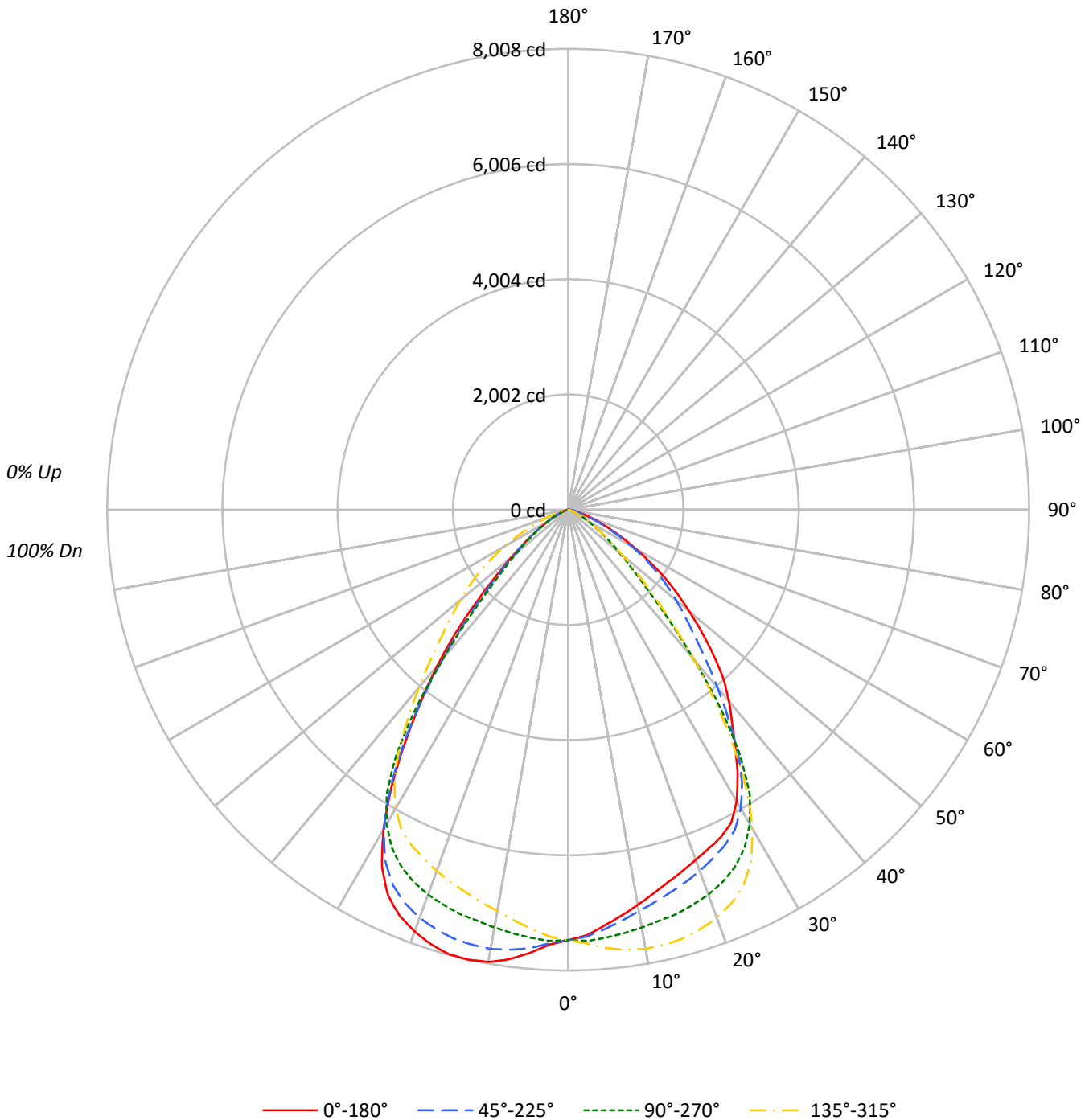
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	711.8	5.7
10°-20°	2061.2	16.4
20°-30°	3121.1	24.8
30°-40°	3128.1	24.8
40°-50°	1964.3	15.6
50°-60°	1046.8	8.3
60°-70°	430.4	3.4
70°-80°	113.7	0.9
80°-90°	19.2	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°	5894.1	46.8
0°-40°	9022.2	71.6
0°-60°	12033.2	95.5
0°-90°	12596.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12596.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	7478	7478	7478	7478	7478	
5°	7252	7467	7734	7467	7252	684
15°	6700	7274	7997	7274	6700	1895
25°	6277	6850	7402	6850	6277	2879
35°	5061	5203	4937	5203	5061	3171
45°	3564	1906	2206	1906	3564	2741
55°	2027	705	745	705	2027	1807
65°	807	215	197	215	807	837
75°	226	44	37	44	226	256
85°	48	0	4	0	48	52
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°	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2
2.5°	7401.6	7394.2	7390.6	7398.0	7401.6	7416.1	7412.5	7419.7	7419.7	7423.5	7430.7
5°	7251.9	7248.2	7251.9	7251.9	7266.5	7281.0	7277.4	7288.4	7295.6	7314.0	7321.2
7.5°	7113.2	7113.2	7109.4	7124.0	7131.4	7153.3	7149.5	7167.8	7178.8	7197.0	7222.6
10°	6970.6	6970.6	6974.3	6985.2	6989.0	7021.8	7021.8	7047.3	7061.8	7080.2	7113.2
12.5°	6831.9	6831.9	6853.8	6846.5	6861.2	6886.7	6897.6	6923.1	6945.1	6981.6	7014.6
15°	6700.4	6700.4	6707.8	6725.9	6737.0	6769.9	6788.0	6817.4	6842.9	6879.4	6927.0
17.5°	6587.2	6583.6	6587.2	6609.2	6631.1	6660.3	6674.8	6711.4	6737.0	6784.4	6828.3
20°	6474.0	6481.5	6481.5	6499.6	6514.2	6550.8	6565.3	6605.6	6634.8	6678.4	6729.8
22.5°	6375.5	6371.9	6371.9	6397.4	6408.4	6441.2	6455.7	6492.3	6525.2	6561.7	6609.2
25°	6276.9	6269.5	6284.2	6287.8	6295.0	6331.6	6342.5	6368.1	6401.0	6434.0	6481.5
27.5°	6130.8	6123.6	6127.2	6141.8	6152.7	6181.9	6189.3	6214.8	6240.4	6269.5	6309.8
30°	5849.6	5842.3	5838.8	5864.3	5875.3	5897.1	5908.0	5951.9	5959.1	5992.1	6021.2
32.5°	5477.2	5473.6	5480.9	5502.7	5513.6	5543.0	5557.6	5583.2	5601.3	5619.6	5648.7
35°	5060.9	5053.6	5060.9	5083.0	5083.0	5108.5	5119.4	5130.2	5126.6	5130.2	5123.0
37.5°	4673.9	4670.2	4673.9	4684.8	4673.9	4684.8	4673.9	4652.0	4611.9	4568.0	4524.1
40°	4345.3	4348.9	4327.1	4341.6	4301.3	4294.1	4254.1	4199.2	4119.0	4031.3	3907.1
42.5°	3994.8	3983.7	3969.2	3976.4	3943.7	3917.9	3852.3	3783.0	3680.7	3534.8	3384.9
45°	3563.9	3560.3	3552.9	3549.3	3527.3	3501.8	3446.9	3366.7	3253.5	3103.8	2924.8
47.5°	3143.9	3133.0	3133.0	3136.6	3111.0	3107.4	3063.5	2994.2	2895.6	2749.5	2563.3
50°	2742.2	2738.6	2745.9	2760.5	2742.2	2735.0	2705.8	2658.3	2570.7	2446.5	2271.2
52.5°	2380.7	2377.1	2384.4	2402.7	2395.4	2402.7	2373.5	2337.0	2278.5	2158.0	2004.6
55°	2026.6	2026.6	2026.6	2048.4	2048.4	2048.4	2033.8	2012.1	1957.2	1869.5	1727.2
57.5°	1657.8	1661.4	1683.3	1686.9	1683.3	1690.6	1686.9	1665.0	1628.7	1566.6	1457.0
60°	1347.4	1347.4	1358.4	1369.4	1365.6	1369.4	1369.4	1358.4	1321.9	1270.8	1183.2
62.5°	1066.2	1077.2	1069.9	1077.2	1091.8	1077.2	1069.9	1062.6	1037.0	1004.2	931.0
65°	807.0	814.3	814.3	817.9	810.6	814.3	799.8	788.7	774.2	737.7	690.2
67.5°	613.5	613.5	613.5	613.5	609.8	606.2	602.6	591.5	566.0	551.5	500.2
70°	471.0	449.1	449.1	449.1	449.1	452.8	441.9	427.3	420.0	394.4	357.9
72.5°	314.0	321.3	314.0	314.0	306.8	310.4	295.8	288.4	281.2	266.6	244.7
75°	226.4	208.1	215.3	219.2	208.1	215.3	200.8	186.2	186.2	175.3	164.2
77.5°	146.1	142.5	146.1	149.7	146.1	142.5	135.1	127.8	127.8	124.2	113.2
80°	106.0	102.1	102.1	102.1	98.6	102.1	95.0	95.0	87.6	84.0	76.6
82.5°	69.4	69.4	65.7	69.4	65.7	69.4	58.5	58.5	58.5	54.7	47.5
85°	47.5	40.2	40.2	43.9	36.6	43.9	40.2	36.6	33.0	33.0	29.1
87.5°	21.9	25.5	21.9	25.5	21.9	21.9	25.5	21.9	21.9	14.6	14.6
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2
2.5°	7441.6	7445.2	7445.2	7460.0	7467.3	7470.9	7470.9	7500.2	7489.2	7496.6	7503.8
5°	7335.9	7357.7	7365.0	7365.0	7405.2	7419.7	7434.3	7467.3	7470.9	7492.8	7518.4
7.5°	7233.5	7259.1	7273.8	7306.5	7332.1	7357.7	7401.6	7423.5	7445.2	7474.6	7507.4
10°	7135.0	7164.2	7193.4	7218.9	7259.1	7292.0	7321.2	7372.2	7398.0	7438.0	7481.8
12.5°	7040.1	7080.2	7105.7	7149.5	7193.4	7222.6	7266.5	7314.0	7354.1	7394.2	7445.2
15°	6956.1	7003.6	7032.7	7080.2	7127.8	7167.8	7215.3	7273.8	7302.9	7350.4	7398.0
17.5°	6864.8	6915.9	6952.5	6996.3	7054.6	7098.4	7138.7	7197.0	7233.5	7284.6	7339.5
20°	6769.9	6821.0	6864.8	6908.6	6967.0	7010.8	7058.2	7116.8	7156.9	7208.0	7251.9
22.5°	6656.7	6704.2	6751.6	6802.6	6861.2	6897.6	6952.5	7003.6	7047.3	7094.8	7138.7
25°	6510.6	6569.1	6605.6	6652.9	6700.4	6740.6	6799.0	6850.1	6886.7	6930.6	6970.6
27.5°	6338.9	6382.8	6412.0	6452.1	6499.6	6536.1	6579.9	6631.1	6667.6	6707.8	6737.0
30°	6046.8	6087.0	6112.6	6141.8	6189.3	6222.2	6258.7	6306.1	6331.6	6360.9	6386.4
32.5°	5663.4	5696.3	5710.8	5732.8	5765.7	5798.5	5827.8	5867.9	5878.9	5897.1	5897.1
35°	5108.5	5115.7	5112.1	5119.4	5134.0	5152.2	5177.8	5203.3	5217.9	5217.9	5207.1
37.5°	4458.5	4414.7	4367.2	4330.7	4319.7	4312.3	4327.1	4337.9	4352.6	4359.8	4341.6
40°	3783.0	3684.4	3578.4	3483.4	3417.8	3388.6	3377.6	3384.9	3384.9	3410.4	3410.4
42.5°	3202.4	3049.0	2892.0	2749.5	2654.5	2581.6	2548.8	2548.8	2552.4	2570.7	2581.6
45°	2720.4	2526.9	2344.2	2187.3	2055.8	1960.8	1917.0	1906.1	1902.5	1909.7	1935.2
47.5°	2351.6	2150.8	1960.8	1767.4	1628.7	1533.6	1493.6	1478.8	1464.2	1478.8	1482.5
50°	2063.1	1855.0	1654.2	1460.6	1314.4	1230.5	1179.3	1157.4	1153.8	1153.8	1161.2
52.5°	1800.1	1606.7	1405.9	1208.7	1055.2	975.0	927.4	916.5	901.9	916.5	916.5
55°	1551.8	1358.4	1161.2	975.0	847.1	763.2	719.3	704.7	697.4	708.3	708.3
57.5°	1281.7	1117.4	934.9	766.8	639.1	580.6	547.6	529.5	525.7	533.1	525.7
60°	1051.6	912.9	755.9	602.6	504.0	441.9	416.4	408.9	401.6	408.9	408.9
62.5°	832.5	715.7	587.8	471.0	387.0	343.2	314.0	314.0	310.4	310.4	314.0
65°	617.2	525.7	434.5	335.9	270.2	237.4	215.3	215.3	211.7	215.3	211.7
67.5°	449.1	387.0	314.0	244.7	193.6	175.3	160.6	149.7	157.0	149.7	146.1
70°	328.7	277.4	226.4	186.2	149.7	131.5	120.5	116.8	109.6	109.6	109.6
72.5°	219.2	186.2	153.3	120.5	98.6	80.2	76.6	69.4	62.1	65.7	73.0
75°	146.1	124.2	109.6	87.6	65.7	65.7	43.9	43.9	36.6	43.9	33.0
77.5°	102.1	84.0	65.7	54.7	43.9	40.2	29.1	29.1	25.5	25.5	25.5
80°	73.0	62.1	47.5	40.2	29.1	29.1	25.5	21.9	18.2	18.2	21.9
82.5°	43.9	33.0	33.0	29.1	18.2	14.6	11.0	14.6	7.3	7.3	7.3
85°	25.5	21.9	18.2	11.0	7.3	7.3	3.6	0.0	3.6	3.6	0.0
87.5°	14.6	7.3	7.3	3.6	0.0	3.6	3.6	0.0	0.0	0.0	7.3
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2
2.5°	7522.1	7518.4	7525.7	7525.7	7547.6	7543.9	7554.8	7554.8	7547.6	7551.2	7565.8
5°	7547.6	7558.6	7580.5	7598.7	7631.6	7646.3	7664.4	7682.7	7686.3	7697.4	7708.3
7.5°	7547.6	7584.2	7609.7	7642.5	7686.3	7711.9	7752.0	7785.0	7799.5	7817.7	7839.7
10°	7532.9	7569.4	7616.9	7653.5	7708.3	7748.4	7788.6	7839.7	7861.6	7890.8	7920.1
12.5°	7503.8	7543.9	7595.0	7642.5	7704.6	7741.1	7792.2	7839.7	7872.6	7912.7	7945.6
15°	7460.0	7507.4	7554.8	7602.4	7668.0	7711.9	7759.5	7814.1	7847.1	7890.8	7920.1
17.5°	7390.6	7441.6	7485.6	7529.3	7591.4	7642.5	7686.3	7737.5	7770.4	7806.9	7847.1
20°	7306.5	7354.1	7401.6	7438.0	7500.2	7543.9	7591.4	7638.9	7664.4	7671.8	7733.9
22.5°	7200.8	7233.5	7270.1	7328.5	7365.0	7405.2	7449.1	7492.8	7518.4	7558.6	7580.5
25°	7025.4	7058.2	7098.4	7124.0	7167.8	7200.8	7244.6	7292.0	7306.5	7335.9	7357.7
27.5°	6780.8	6799.0	6817.4	6839.1	6864.8	6883.1	6908.6	6930.6	6945.1	6959.7	6974.3
30°	6393.7	6393.7	6393.7	6379.1	6390.1	6401.0	6404.6	6401.0	6401.0	6397.4	6397.4
32.5°	5882.5	5853.4	5820.4	5791.3	5780.2	5765.7	5758.3	5747.4	5729.2	5718.3	5721.9
35°	5192.3	5126.6	5086.6	5050.0	5020.9	4998.9	4987.9	4977.0	4973.4	4958.8	4944.0
37.5°	4330.7	4283.2	4254.1	4232.1	4206.5	4184.6	4188.2	4192.0	4202.8	4195.6	4199.2
40°	3417.8	3406.8	3417.8	3392.2	3384.9	3392.2	3410.4	3436.1	3450.7	3465.2	3490.8
42.5°	2599.9	2618.0	2643.8	2643.8	2654.5	2669.3	2691.1	2731.4	2753.1	2778.8	2808.0
45°	1957.2	1979.1	2012.1	2022.9	2030.2	2048.4	2074.2	2106.9	2121.4	2143.4	2169.0
47.5°	1508.1	1522.7	1540.8	1559.1	1577.4	1584.8	1610.3	1610.3	1628.7	1643.2	1650.4
50°	1175.7	1190.4	1205.0	1215.9	1223.3	1234.2	1241.4	1252.5	1256.1	1263.4	1267.0
52.5°	920.1	938.5	938.5	945.7	956.7	967.6	964.0	967.6	971.2	971.2	982.2
55°	719.3	719.3	730.4	730.4	737.7	733.9	737.7	737.7	737.7	737.7	741.3
57.5°	536.7	540.4	551.5	544.1	540.4	547.6	540.4	547.6	544.1	551.5	540.4
60°	412.5	412.5	416.4	416.4	420.0	420.0	420.0	416.4	416.4	412.5	412.5
62.5°	310.4	314.0	317.7	314.0	314.0	314.0	310.4	310.4	306.8	303.0	303.0
65°	208.1	204.5	211.7	204.5	208.1	208.1	204.5	208.1	197.2	200.8	197.2
67.5°	149.7	146.1	142.5	146.1	142.5	138.7	138.7	142.5	146.1	135.1	135.1
70°	98.6	102.1	98.6	102.1	106.0	106.0	102.1	98.6	102.1	95.0	98.6
72.5°	62.1	62.1	62.1	62.1	62.1	65.7	65.7	65.7	58.5	58.5	54.7
75°	29.1	40.2	33.0	29.1	40.2	40.2	36.6	36.6	33.0	33.0	33.0
77.5°	29.1	21.9	21.9	21.9	21.9	21.9	21.9	21.9	18.2	21.9	18.2
80°	14.6	14.6	14.6	11.0	14.6	14.6	18.2	14.6	14.6	11.0	18.2
82.5°	7.3	7.3	7.3	0.0	3.6	7.3	7.3	3.6	7.3	7.3	3.6
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: P249070

CATALOG NUMBER: LD8B150D010 ER8B150927 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2
2.5°	7562.2	7558.6	7562.2	7565.8	7562.2	7558.6	7562.2	7565.8	7551.2	7547.6	7554.8
5°	7722.9	7722.9	7730.1	7733.9	7730.1	7722.9	7722.9	7708.3	7697.4	7686.3	7682.7
7.5°	7861.6	7869.0	7876.2	7879.8	7876.2	7869.0	7861.6	7839.7	7817.7	7799.5	7785.0
10°	7945.6	7956.6	7971.2	7978.4	7971.2	7956.6	7945.6	7920.1	7890.8	7861.6	7839.7
12.5°	7982.2	7993.1	8011.4	8007.8	8011.4	7993.1	7982.2	7945.6	7912.7	7872.6	7839.7
15°	7956.6	7971.2	7989.4	7996.7	7989.4	7971.2	7956.6	7920.1	7890.8	7847.1	7814.1
17.5°	7876.2	7898.2	7909.1	7920.1	7909.1	7898.2	7876.2	7847.1	7806.9	7770.4	7737.5
20°	7766.7	7781.4	7795.9	7799.5	7795.9	7781.4	7766.7	7733.9	7671.8	7664.4	7638.9
22.5°	7609.7	7620.8	7653.5	7642.5	7653.5	7620.8	7609.7	7580.5	7558.6	7518.4	7492.8
25°	7383.3	7394.2	7398.0	7401.6	7398.0	7394.2	7383.3	7357.7	7335.9	7306.5	7292.0
27.5°	6992.6	6992.6	6999.9	7003.6	6999.9	6992.6	6992.6	6974.3	6959.7	6945.1	6930.6
30°	6401.0	6401.0	6401.0	6419.4	6401.0	6401.0	6401.0	6397.4	6397.4	6401.0	6401.0
32.5°	5718.3	5710.8	5703.6	5710.8	5703.6	5710.8	5718.3	5721.9	5718.3	5729.2	5747.4
35°	4944.0	4940.4	4951.5	4936.8	4951.5	4940.4	4944.0	4944.0	4958.8	4973.4	4977.0
37.5°	4202.8	4195.6	4210.1	4195.6	4210.1	4195.6	4202.8	4199.2	4195.6	4202.8	4192.0
40°	3498.2	3505.4	3505.4	3534.8	3505.4	3505.4	3498.2	3490.8	3465.2	3450.7	3436.1
42.5°	2822.6	2844.6	2837.1	2859.1	2837.1	2844.6	2822.6	2808.0	2778.8	2753.1	2731.4
45°	2183.5	2198.2	2198.2	2205.5	2198.2	2198.2	2183.5	2169.0	2143.4	2121.4	2106.9
47.5°	1676.0	1676.0	1676.0	1679.7	1676.0	1676.0	1676.0	1650.4	1643.2	1628.7	1610.3
50°	1274.4	1278.0	1281.7	1285.3	1281.7	1278.0	1274.4	1267.0	1263.4	1256.1	1252.5
52.5°	978.6	982.2	975.0	982.2	975.0	982.2	978.6	982.2	971.2	971.2	967.6
55°	741.3	737.7	741.3	744.9	741.3	737.7	741.3	741.3	737.7	737.7	737.7
57.5°	544.1	536.7	536.7	536.7	536.7	536.7	544.1	540.4	551.5	544.1	547.6
60°	405.3	408.9	408.9	412.5	408.9	408.9	405.3	412.5	412.5	416.4	416.4
62.5°	299.4	310.4	303.0	310.4	303.0	310.4	299.4	303.0	303.0	306.8	310.4
65°	193.6	193.6	193.6	197.2	193.6	193.6	193.6	197.2	200.8	197.2	208.1
67.5°	131.5	135.1	142.5	138.7	142.5	135.1	131.5	135.1	135.1	146.1	142.5
70°	106.0	95.0	95.0	106.0	95.0	95.0	106.0	98.6	95.0	102.1	98.6
72.5°	62.1	54.7	62.1	62.1	62.1	54.7	62.1	54.7	58.5	58.5	65.7
75°	33.0	29.1	25.5	36.6	25.5	29.1	33.0	33.0	33.0	33.0	36.6
77.5°	21.9	18.2	25.5	25.5	25.5	18.2	21.9	18.2	21.9	18.2	21.9
80°	11.0	14.6	11.0	18.2	11.0	14.6	11.0	18.2	11.0	14.6	14.6
82.5°	3.6	7.3	7.3	7.3	7.3	7.3	3.6	3.6	7.3	7.3	3.6
85°	0.0	7.3	3.6	3.6	3.6	7.3	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	0.0	0.0	3.6	0.0	0.0	3.6	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: P249070

CATALOG NUMBER: LD8B150D010 ER8B150927 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2
2.5°	7554.8	7543.9	7547.6	7525.7	7525.7	7518.4	7522.1	7503.8	7496.6	7489.2	7500.2
5°	7664.4	7646.3	7631.6	7598.7	7580.5	7558.6	7547.6	7518.4	7492.8	7470.9	7467.3
7.5°	7752.0	7711.9	7686.3	7642.5	7609.7	7584.2	7547.6	7507.4	7474.6	7445.2	7423.5
10°	7788.6	7748.4	7708.3	7653.5	7616.9	7569.4	7532.9	7481.8	7438.0	7398.0	7372.2
12.5°	7792.2	7741.1	7704.6	7642.5	7595.0	7543.9	7503.8	7445.2	7394.2	7354.1	7314.0
15°	7759.5	7711.9	7668.0	7602.4	7554.8	7507.4	7460.0	7398.0	7350.4	7302.9	7273.8
17.5°	7686.3	7642.5	7591.4	7529.3	7485.6	7441.6	7390.6	7339.5	7284.6	7233.5	7197.0
20°	7591.4	7543.9	7500.2	7438.0	7401.6	7354.1	7306.5	7251.9	7208.0	7156.9	7116.8
22.5°	7449.1	7405.2	7365.0	7328.5	7270.1	7233.5	7200.8	7138.7	7094.8	7047.3	7003.6
25°	7244.6	7200.8	7167.8	7124.0	7098.4	7058.2	7025.4	6970.6	6930.6	6886.7	6850.1
27.5°	6908.6	6883.1	6864.8	6839.1	6817.4	6799.0	6780.8	6737.0	6707.8	6667.6	6631.1
30°	6404.6	6401.0	6390.1	6379.1	6393.7	6393.7	6393.7	6386.4	6360.9	6331.6	6306.1
32.5°	5758.3	5765.7	5780.2	5791.3	5820.4	5853.4	5882.5	5897.1	5897.1	5878.9	5867.9
35°	4987.9	4998.9	5020.9	5050.0	5086.6	5126.6	5192.3	5207.1	5217.9	5217.9	5203.3
37.5°	4188.2	4184.6	4206.5	4232.1	4254.1	4283.2	4330.7	4341.6	4359.8	4352.6	4337.9
40°	3410.4	3392.2	3384.9	3392.2	3417.8	3406.8	3417.8	3410.4	3410.4	3384.9	3384.9
42.5°	2691.1	2669.3	2654.5	2643.8	2643.8	2618.0	2599.9	2581.6	2570.7	2552.4	2548.8
45°	2074.2	2048.4	2030.2	2022.9	2012.1	1979.1	1957.2	1935.2	1909.7	1902.5	1906.1
47.5°	1610.3	1584.8	1577.4	1559.1	1540.8	1522.7	1508.1	1482.5	1478.8	1464.2	1478.8
50°	1241.4	1234.2	1223.3	1215.9	1205.0	1190.4	1175.7	1161.2	1153.8	1153.8	1157.4
52.5°	964.0	967.6	956.7	945.7	938.5	938.5	920.1	916.5	916.5	901.9	916.5
55°	737.7	733.9	737.7	730.4	730.4	719.3	719.3	708.3	708.3	697.4	704.7
57.5°	540.4	547.6	540.4	544.1	551.5	540.4	536.7	525.7	533.1	525.7	529.5
60°	420.0	420.0	420.0	416.4	416.4	412.5	412.5	408.9	408.9	401.6	408.9
62.5°	310.4	314.0	314.0	314.0	317.7	314.0	310.4	314.0	310.4	310.4	314.0
65°	204.5	208.1	208.1	204.5	211.7	204.5	208.1	211.7	215.3	211.7	215.3
67.5°	138.7	138.7	142.5	146.1	142.5	146.1	149.7	146.1	149.7	157.0	149.7
70°	102.1	106.0	106.0	102.1	98.6	102.1	98.6	109.6	109.6	109.6	116.8
72.5°	65.7	65.7	62.1	62.1	62.1	62.1	62.1	73.0	65.7	62.1	69.4
75°	36.6	40.2	40.2	29.1	33.0	40.2	29.1	33.0	43.9	36.6	43.9
77.5°	21.9	21.9	21.9	21.9	21.9	21.9	21.9	25.5	25.5	25.5	29.1
80°	18.2	14.6	14.6	11.0	14.6	14.6	14.6	21.9	18.2	18.2	21.9
82.5°	7.3	7.3	3.6	0.0	7.3	7.3	7.3	7.3	7.3	7.3	14.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	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: P249070

CATALOG NUMBER: LD8B150D010 ER8B150927 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2
2.5°	7470.9	7470.9	7467.3	7460.0	7445.2	7445.2	7441.6	7430.7	7423.5	7419.7	7419.7
5°	7434.3	7419.7	7405.2	7365.0	7365.0	7357.7	7335.9	7321.2	7314.0	7295.6	7288.4
7.5°	7401.6	7357.7	7332.1	7306.5	7273.8	7259.1	7233.5	7222.6	7197.0	7178.8	7167.8
10°	7321.2	7292.0	7259.1	7218.9	7193.4	7164.2	7135.0	7113.2	7080.2	7061.8	7047.3
12.5°	7266.5	7222.6	7193.4	7149.5	7105.7	7080.2	7040.1	7014.6	6981.6	6945.1	6923.1
15°	7215.3	7167.8	7127.8	7080.2	7032.7	7003.6	6956.1	6927.0	6879.4	6842.9	6817.4
17.5°	7138.7	7098.4	7054.6	6996.3	6952.5	6915.9	6864.8	6828.3	6784.4	6737.0	6711.4
20°	7058.2	7010.8	6967.0	6908.6	6864.8	6821.0	6769.9	6729.8	6678.4	6634.8	6605.6
22.5°	6952.5	6897.6	6861.2	6802.6	6751.6	6704.2	6656.7	6609.2	6561.7	6525.2	6492.3
25°	6799.0	6740.6	6700.4	6652.9	6605.6	6569.1	6510.6	6481.5	6434.0	6401.0	6368.1
27.5°	6579.9	6536.1	6499.6	6452.1	6412.0	6382.8	6338.9	6309.8	6269.5	6240.4	6214.8
30°	6258.7	6222.2	6189.3	6141.8	6112.6	6087.0	6046.8	6021.2	5992.1	5959.1	5951.9
32.5°	5827.8	5798.5	5765.7	5732.8	5710.8	5696.3	5663.4	5648.7	5619.6	5601.3	5583.2
35°	5177.8	5152.2	5134.0	5119.4	5112.1	5115.7	5108.5	5123.0	5130.2	5126.6	5130.2
37.5°	4327.1	4312.3	4319.7	4330.7	4367.2	4414.7	4458.5	4524.1	4568.0	4611.9	4652.0
40°	3377.6	3388.6	3417.8	3483.4	3578.4	3684.4	3783.0	3907.1	4031.3	4119.0	4199.2
42.5°	2548.8	2581.6	2654.5	2749.5	2892.0	3049.0	3202.4	3384.9	3534.8	3680.7	3783.0
45°	1917.0	1960.8	2055.8	2187.3	2344.2	2526.9	2720.4	2924.8	3103.8	3253.5	3366.7
47.5°	1493.6	1533.6	1628.7	1767.4	1960.8	2150.8	2351.6	2563.3	2749.5	2895.6	2994.2
50°	1179.3	1230.5	1314.4	1460.6	1654.2	1855.0	2063.1	2271.2	2446.5	2570.7	2658.3
52.5°	927.4	975.0	1055.2	1208.7	1405.9	1606.7	1800.1	2004.6	2158.0	2278.5	2337.0
55°	719.3	763.2	847.1	975.0	1161.2	1358.4	1551.8	1727.2	1869.5	1957.2	2012.1
57.5°	547.6	580.6	639.1	766.8	934.9	1117.4	1281.7	1457.0	1566.6	1628.7	1665.0
60°	416.4	441.9	504.0	602.6	755.9	912.9	1051.6	1183.2	1270.8	1321.9	1358.4
62.5°	314.0	343.2	387.0	471.0	587.8	715.7	832.5	931.0	1004.2	1037.0	1062.6
65°	215.3	237.4	270.2	335.9	434.5	525.7	617.2	690.2	737.7	774.2	788.7
67.5°	160.6	175.3	193.6	244.7	314.0	387.0	449.1	500.2	551.5	566.0	591.5
70°	120.5	131.5	149.7	186.2	226.4	277.4	328.7	357.9	394.4	420.0	427.3
72.5°	76.6	80.2	98.6	120.5	153.3	186.2	219.2	244.7	266.6	281.2	288.4
75°	43.9	65.7	65.7	87.6	109.6	124.2	146.1	164.2	175.3	186.2	186.2
77.5°	29.1	40.2	43.9	54.7	65.7	84.0	102.1	113.2	124.2	127.8	127.8
80°	25.5	29.1	29.1	40.2	47.5	62.1	73.0	76.6	84.0	87.6	95.0
82.5°	11.0	14.6	18.2	29.1	33.0	33.0	43.9	47.5	54.7	58.5	58.5
85°	3.6	7.3	7.3	11.0	18.2	21.9	25.5	29.1	33.0	33.0	36.6
87.5°	3.6	3.6	0.0	3.6	7.3	7.3	14.6	14.6	14.6	21.9	21.9
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: P249070

CATALOG NUMBER: LD8B150D010 ER8B150927 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2	7478.2
2.5°	7412.5	7416.1	7401.6	7398.0	7390.6	7394.2	7401.6
5°	7277.4	7281.0	7266.5	7251.9	7251.9	7248.2	7251.9
7.5°	7149.5	7153.3	7131.4	7124.0	7109.4	7113.2	7113.2
10°	7021.8	7021.8	6989.0	6985.2	6974.3	6970.6	6970.6
12.5°	6897.6	6886.7	6861.2	6846.5	6853.8	6831.9	6831.9
15°	6788.0	6769.9	6737.0	6725.9	6707.8	6700.4	6700.4
17.5°	6674.8	6660.3	6631.1	6609.2	6587.2	6583.6	6587.2
20°	6565.3	6550.8	6514.2	6499.6	6481.5	6481.5	6474.0
22.5°	6455.7	6441.2	6408.4	6397.4	6371.9	6371.9	6375.5
25°	6342.5	6331.6	6295.0	6287.8	6284.2	6269.5	6276.9
27.5°	6189.3	6181.9	6152.7	6141.8	6127.2	6123.6	6130.8
30°	5908.0	5897.1	5875.3	5864.3	5838.8	5842.3	5849.6
32.5°	5557.6	5543.0	5513.6	5502.7	5480.9	5473.6	5477.2
35°	5119.4	5108.5	5083.0	5083.0	5060.9	5053.6	5060.9
37.5°	4673.9	4684.8	4673.9	4684.8	4673.9	4670.2	4673.9
40°	4254.1	4294.1	4301.3	4341.6	4327.1	4348.9	4345.3
42.5°	3852.3	3917.9	3943.7	3976.4	3969.2	3983.7	3994.8
45°	3446.9	3501.8	3527.3	3549.3	3552.9	3560.3	3563.9
47.5°	3063.5	3107.4	3111.0	3136.6	3133.0	3133.0	3143.9
50°	2705.8	2735.0	2742.2	2760.5	2745.9	2738.6	2742.2
52.5°	2373.5	2402.7	2395.4	2402.7	2384.4	2377.1	2380.7
55°	2033.8	2048.4	2048.4	2048.4	2026.6	2026.6	2026.6
57.5°	1686.9	1690.6	1683.3	1686.9	1683.3	1661.4	1657.8
60°	1369.4	1369.4	1365.6	1369.4	1358.4	1347.4	1347.4
62.5°	1069.9	1077.2	1091.8	1077.2	1069.9	1077.2	1066.2
65°	799.8	814.3	810.6	817.9	814.3	814.3	807.0
67.5°	602.6	606.2	609.8	613.5	613.5	613.5	613.5
70°	441.9	452.8	449.1	449.1	449.1	449.1	471.0
72.5°	295.8	310.4	306.8	314.0	314.0	321.3	314.0
75°	200.8	215.3	208.1	219.2	215.3	208.1	226.4
77.5°	135.1	142.5	146.1	149.7	146.1	142.5	146.1
80°	95.0	102.1	98.6	102.1	102.1	102.1	106.0
82.5°	58.5	69.4	65.7	69.4	65.7	69.4	69.4
85°	40.2	43.9	36.6	43.9	40.2	40.2	47.5
87.5°	25.5	21.9	21.9	25.5	21.9	25.5	21.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)