

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: P248638

Luminaire Tested: **LD8B150D010 ER8B150927 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248638  
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 8LBSW0H  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12730.5 lumens  
Efficiency: N/A  
Efficacy: 80.3 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

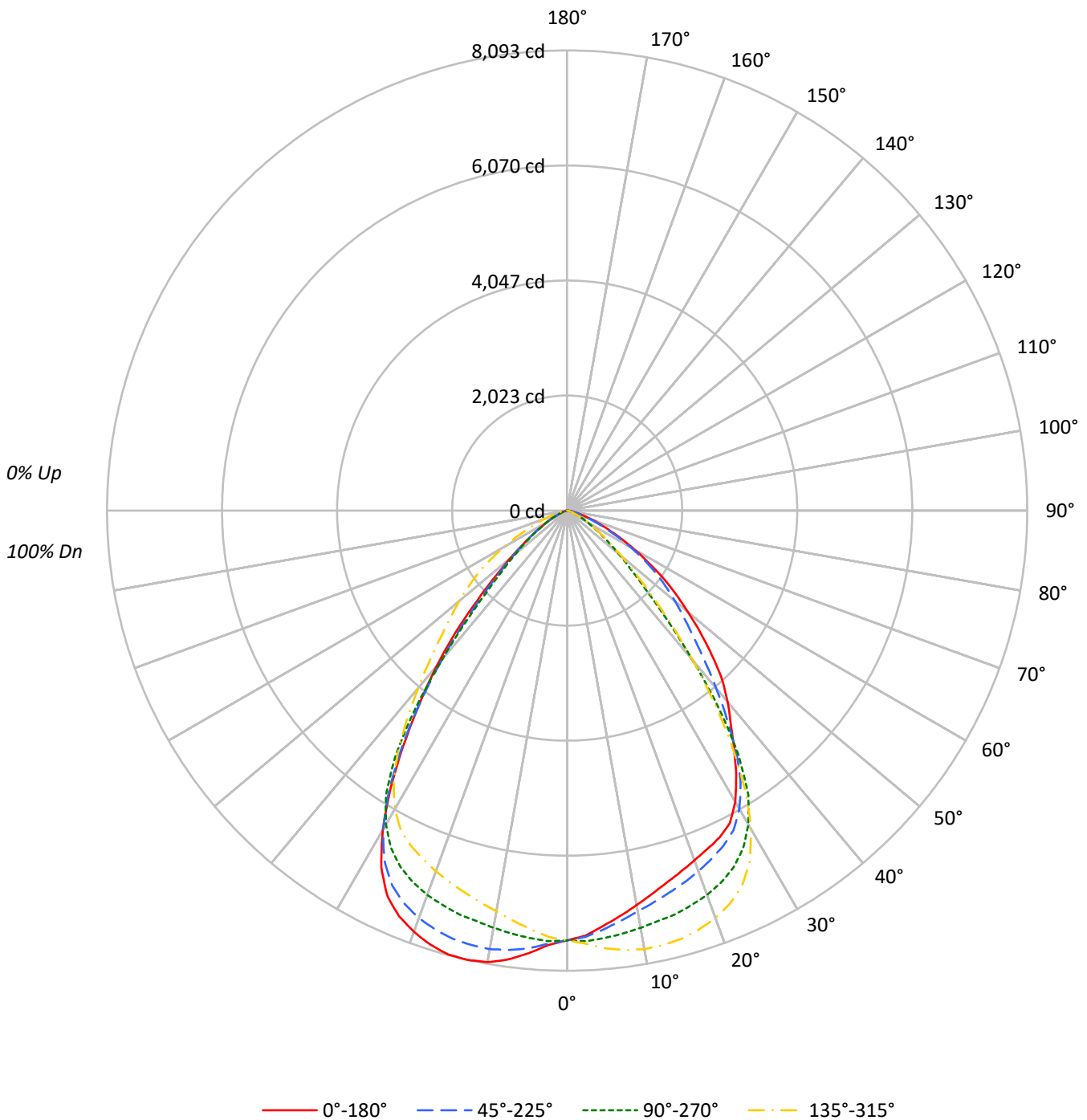
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P248638

CATALOG NUMBER: LD8B150D010 ER8B150927 8LBSW0H

### Luminous Intensity Polar Plot





TEST NUMBER: P248638

CATALOG NUMBER: LD8B150D010 ER8B150927 8LBSW0H

**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°				



TEST NUMBER: P248638

CATALOG NUMBER: LD8B150D010 ER8B150927 8LBSW0H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	719.4	5.7
10°-20°	2083.1	16.4
20°-30°	3154.3	24.8
30°-40°	3161.3	24.8
40°-50°	1985.2	15.6
50°-60°	1057.9	8.3
60°-70°	435.0	3.4
70°-80°	114.9	0.9
80°-90°	19.4	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°	5956.7	46.8
0°-40°	9118.1	71.6
0°-60°	12161.1	95.5
0°-90°	12730.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12730.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	7558	7558	7558	7558	7558	
5°	7329	7547	7816	7547	7329	691
15°	6772	7351	8082	7351	6772	1915
25°	6344	6923	7480	6923	6344	2909
35°	5115	5259	4989	5259	5115	3204
45°	3602	1926	2229	1926	3602	2770
55°	2048	712	753	712	2048	1826
65°	816	218	199	218	816	846
75°	229	44	37	44	229	259
85°	48	0	4	0	48	53
90°	0	0	0	0	0	



TEST NUMBER: P248638

CATALOG NUMBER: LD8B150D010 ER8B150927 8LBSW0H

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8
2.5°	7480.2	7472.8	7469.1	7476.6	7480.2	7495.0	7491.3	7498.6	7498.6	7502.4	7509.7
5°	7328.9	7325.1	7328.9	7328.9	7343.7	7358.4	7354.8	7365.8	7373.1	7391.7	7399.0
7.5°	7188.8	7188.8	7184.9	7199.7	7207.1	7229.2	7225.5	7244.0	7255.1	7273.5	7299.3
10°	7044.8	7044.8	7048.4	7059.5	7063.3	7096.4	7096.4	7122.3	7137.0	7155.4	7188.8
12.5°	6904.6	6904.6	6926.7	6919.3	6934.0	6959.8	6971.0	6996.7	7018.9	7055.9	7089.1
15°	6771.6	6771.6	6779.0	6797.5	6808.5	6841.8	6860.1	6889.8	6915.6	6952.5	7000.5
17.5°	6657.3	6653.6	6657.3	6679.5	6701.6	6731.1	6745.8	6782.7	6808.5	6856.5	6900.9
20°	6542.9	6550.3	6550.3	6568.6	6583.4	6620.4	6635.1	6675.8	6705.2	6749.4	6801.3
22.5°	6443.2	6439.6	6439.6	6465.4	6476.5	6509.6	6524.3	6561.2	6594.5	6631.4	6679.5
25°	6343.7	6336.1	6351.1	6354.7	6362.0	6398.9	6410.0	6435.8	6469.1	6502.3	6550.3
27.5°	6195.9	6188.6	6192.3	6207.1	6218.1	6247.6	6255.0	6280.9	6306.6	6336.1	6376.8
30°	5911.8	5904.4	5900.8	5926.6	5937.8	5959.8	5970.8	6015.2	6022.5	6055.8	6085.2
32.5°	5535.3	5531.7	5539.2	5561.2	5572.2	5601.9	5616.7	5642.4	5660.8	5679.3	5708.8
35°	5114.8	5107.3	5114.8	5137.0	5137.0	5162.7	5173.9	5184.8	5181.2	5184.8	5177.5
37.5°	4723.7	4719.8	4723.7	4734.6	4723.7	4734.6	4723.7	4701.5	4660.9	4616.6	4572.2
40°	4391.4	4395.0	4373.1	4387.8	4347.1	4339.8	4299.2	4243.8	4162.7	4074.2	3948.6
42.5°	4037.2	4026.2	4011.4	4018.7	3985.5	3959.6	3893.2	3823.2	3719.8	3572.3	3420.8
45°	3601.7	3598.1	3590.7	3587.0	3564.8	3539.0	3483.6	3402.4	3288.0	3136.8	2955.8
47.5°	3177.3	3166.2	3166.2	3169.9	3144.0	3140.4	3096.1	3026.0	2926.5	2778.8	2590.5
50°	2771.3	2767.7	2775.2	2789.9	2771.3	2764.0	2734.5	2686.6	2598.0	2472.5	2295.3
52.5°	2406.0	2402.3	2409.9	2428.2	2420.8	2428.2	2398.7	2361.8	2302.8	2180.9	2026.0
55°	2048.2	2048.2	2048.2	2070.2	2070.2	2070.2	2055.5	2033.4	1978.0	1889.4	1745.6
57.5°	1675.4	1679.1	1701.2	1704.8	1701.2	1708.6	1704.8	1682.7	1646.0	1583.2	1472.5
60°	1361.7	1361.7	1372.8	1383.9	1380.1	1383.9	1383.9	1372.8	1335.9	1284.3	1195.8
62.5°	1077.5	1088.7	1081.2	1088.7	1103.4	1088.7	1081.2	1073.9	1048.0	1014.9	941.0
65°	815.5	822.9	822.9	826.6	819.2	822.9	808.2	797.2	782.4	745.5	697.5
67.5°	620.0	620.0	620.0	620.0	616.3	612.6	609.0	597.8	572.1	557.3	505.5
70°	476.0	453.8	453.8	453.8	453.8	457.6	446.6	431.9	424.4	398.6	361.7
72.5°	317.4	324.8	317.4	317.4	310.0	313.7	298.9	291.5	284.2	269.4	247.3
75°	228.7	210.4	217.7	221.5	210.4	217.7	203.0	188.2	188.2	177.1	166.0
77.5°	147.6	144.0	147.6	151.3	147.6	144.0	136.6	129.2	129.2	125.4	114.4
80°	107.1	103.3	103.3	103.3	99.7	103.3	96.0	96.0	88.5	84.9	77.5
82.5°	70.2	70.2	66.4	70.2	66.4	70.2	59.1	59.1	59.1	55.2	48.0
85°	48.0	40.5	40.5	44.3	36.9	44.3	40.5	36.9	33.3	33.3	29.5
87.5°	22.2	25.9	22.2	25.9	22.2	22.2	25.9	22.2	22.2	14.7	14.7
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: P248638

CATALOG NUMBER: LD8B150D010 ER8B150927 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8
2.5°	7520.7	7524.4	7524.4	7539.3	7546.6	7550.2	7550.2	7579.9	7568.8	7576.2	7583.5
5°	7413.9	7435.9	7443.3	7443.3	7483.8	7498.6	7513.3	7546.6	7550.2	7572.4	7598.2
7.5°	7310.4	7336.2	7351.1	7384.3	7410.0	7435.9	7480.2	7502.4	7524.4	7554.0	7587.1
10°	7210.8	7240.4	7269.9	7295.6	7336.2	7369.5	7399.0	7450.6	7476.6	7517.1	7561.4
12.5°	7115.0	7155.4	7181.3	7225.5	7269.9	7299.3	7343.7	7391.7	7432.2	7472.8	7524.4
15°	7030.0	7078.0	7107.5	7155.4	7203.5	7244.0	7292.0	7351.1	7380.6	7428.6	7476.6
17.5°	6937.6	6989.4	7026.4	7070.5	7129.7	7173.9	7214.5	7273.5	7310.4	7362.0	7417.5
20°	6841.8	6893.4	6937.6	6982.0	7041.2	7085.2	7133.3	7192.4	7233.0	7284.6	7328.9
22.5°	6727.4	6775.4	6823.2	6874.9	6934.0	6971.0	7026.4	7078.0	7122.3	7170.2	7214.5
25°	6579.8	6638.8	6675.8	6723.7	6771.6	6812.2	6871.3	6922.9	6959.8	7004.1	7044.8
27.5°	6406.3	6450.6	6480.1	6520.7	6568.6	6605.7	6649.8	6701.6	6738.5	6779.0	6808.5
30°	6111.0	6151.7	6177.6	6207.1	6255.0	6288.3	6325.2	6373.0	6398.9	6428.5	6454.3
32.5°	5723.6	5756.8	5771.6	5793.8	5827.0	5860.1	5889.7	5930.3	5941.3	5959.8	5959.8
35°	5162.7	5170.0	5166.4	5173.9	5188.6	5207.0	5232.8	5258.6	5273.3	5273.3	5262.4
37.5°	4505.8	4461.6	4413.6	4376.7	4365.6	4358.1	4373.1	4384.0	4398.9	4406.2	4387.8
40°	3823.2	3723.5	3616.4	3520.5	3454.1	3424.6	3413.6	3420.8	3420.8	3446.7	3446.7
42.5°	3236.4	3081.4	2922.8	2778.8	2682.8	2609.1	2575.8	2575.8	2579.5	2598.0	2609.1
45°	2749.3	2553.6	2369.1	2210.5	2077.6	1981.6	1937.5	1926.3	1922.7	1929.9	1955.8
47.5°	2376.6	2173.6	1981.6	1786.2	1646.0	1549.9	1509.4	1494.4	1479.7	1494.4	1498.3
50°	2085.1	1874.7	1671.8	1476.1	1328.5	1243.6	1191.9	1169.8	1166.1	1166.1	1173.5
52.5°	1819.2	1623.7	1420.9	1221.5	1066.5	985.4	937.4	926.2	911.5	926.2	926.2
55°	1568.4	1372.8	1173.5	985.4	856.1	771.3	727.0	712.2	704.8	715.8	715.8
57.5°	1295.3	1129.2	944.8	775.0	645.9	586.8	553.5	535.2	531.3	538.8	531.3
60°	1062.8	922.6	763.9	609.0	509.3	446.6	420.8	413.3	405.9	413.3	413.3
62.5°	841.4	723.4	594.1	476.0	391.2	347.0	317.4	317.4	313.7	313.7	317.4
65°	623.7	531.3	439.1	339.5	273.2	239.8	217.7	217.7	214.0	217.7	214.0
67.5°	453.8	391.2	317.4	247.3	195.6	177.1	162.3	151.3	158.7	151.3	147.6
70°	332.2	280.3	228.7	188.2	151.3	132.9	121.8	118.0	110.7	110.7	110.7
72.5°	221.5	188.2	154.9	121.8	99.7	81.1	77.5	70.2	62.8	66.4	73.8
75°	147.6	125.4	110.7	88.5	66.4	66.4	44.3	44.3	36.9	44.3	33.3
77.5°	103.3	84.9	66.4	55.2	44.3	40.5	29.5	29.5	25.9	25.9	25.9
80°	73.8	62.8	48.0	40.5	29.5	29.5	25.9	22.2	18.3	18.3	22.2
82.5°	44.3	33.3	33.3	29.5	18.3	14.7	11.1	14.7	7.4	7.4	7.4
85°	25.9	22.2	18.3	11.1	7.4	7.4	3.6	0.0	3.6	3.6	0.0
87.5°	14.7	7.4	7.4	3.6	0.0	3.6	3.6	0.0	0.0	0.0	7.4
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: P248638

CATALOG NUMBER: LD8B150D010 ER8B150927 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8
2.5°	7602.1	7598.2	7605.7	7605.7	7627.8	7624.1	7635.2	7635.2	7627.8	7631.6	7646.3
5°	7627.8	7639.0	7661.0	7679.5	7712.7	7727.5	7745.8	7764.4	7768.1	7779.2	7790.3
7.5°	7627.8	7664.7	7690.6	7723.7	7768.1	7793.9	7834.5	7867.7	7882.4	7900.9	7923.0
10°	7613.0	7649.9	7697.9	7734.8	7790.3	7830.8	7871.4	7923.0	7945.2	7974.7	8004.3
12.5°	7583.5	7624.1	7675.8	7723.7	7786.5	7823.4	7875.0	7923.0	7956.2	7996.8	8030.1
15°	7539.3	7587.1	7635.2	7683.2	7749.6	7793.9	7841.9	7897.2	7930.5	7974.7	8004.3
17.5°	7469.1	7520.7	7565.2	7609.4	7672.0	7723.7	7768.1	7819.8	7853.0	7889.8	7930.5
20°	7384.3	7432.2	7480.2	7517.1	7579.9	7624.1	7672.0	7720.1	7745.8	7753.4	7816.0
22.5°	7277.3	7310.4	7347.4	7406.4	7443.3	7483.8	7528.3	7572.4	7598.2	7639.0	7661.0
25°	7100.0	7133.3	7173.9	7199.7	7244.0	7277.3	7321.5	7369.5	7384.3	7413.9	7435.9
27.5°	6852.9	6871.3	6889.8	6911.9	6937.6	6956.2	6982.0	7004.1	7018.9	7033.6	7048.4
30°	6461.7	6461.7	6461.7	6446.9	6458.0	6469.1	6472.7	6469.1	6469.1	6465.4	6465.4
32.5°	5945.1	5915.6	5882.3	5852.8	5841.8	5827.0	5819.5	5808.5	5790.0	5779.0	5782.6
35°	5247.6	5181.2	5140.6	5103.7	5074.2	5052.0	5040.9	5029.9	5026.2	5011.4	4996.6
37.5°	4376.7	4328.7	4299.2	4277.0	4251.3	4229.1	4232.7	4236.5	4247.4	4240.1	4243.8
40°	3454.1	3443.1	3454.1	3428.3	3420.8	3428.3	3446.7	3472.6	3487.4	3502.1	3527.9
42.5°	2627.4	2645.9	2671.9	2671.9	2682.8	2697.6	2719.7	2760.4	2782.5	2808.2	2837.8
45°	1978.0	2000.1	2033.4	2044.4	2051.8	2070.2	2096.1	2129.3	2144.0	2166.2	2192.0
47.5°	1524.1	1538.9	1557.2	1575.8	1594.1	1601.6	1627.4	1627.4	1646.0	1660.7	1667.9
50°	1188.2	1203.0	1217.7	1228.8	1236.3	1247.4	1254.6	1265.7	1269.3	1276.9	1280.5
52.5°	929.9	948.5	948.5	955.7	966.8	977.8	974.2	977.8	981.6	981.6	992.6
55°	727.0	727.0	738.1	738.1	745.5	741.7	745.5	745.5	745.5	745.5	749.1
57.5°	542.4	546.2	557.3	549.9	546.2	553.5	546.2	553.5	549.9	557.3	546.2
60°	416.9	416.9	420.8	420.8	424.4	424.4	424.4	420.8	420.8	416.9	416.9
62.5°	313.7	317.4	321.1	317.4	317.4	317.4	313.7	313.7	310.0	306.2	306.2
65°	210.4	206.8	214.0	206.8	210.4	210.4	206.8	210.4	199.2	203.0	199.2
67.5°	151.3	147.6	144.0	147.6	144.0	140.2	140.2	144.0	147.6	136.6	136.6
70°	99.7	103.3	99.7	103.3	107.1	107.1	103.3	99.7	103.3	96.0	99.7
72.5°	62.8	62.8	62.8	62.8	62.8	66.4	66.4	66.4	59.1	59.1	55.2
75°	29.5	40.5	33.3	29.5	40.5	40.5	36.9	36.9	33.3	33.3	33.3
77.5°	29.5	22.2	22.2	22.2	22.2	22.2	22.2	22.2	18.3	22.2	18.3
80°	14.7	14.7	14.7	11.1	14.7	14.7	18.3	14.7	14.7	11.1	18.3
82.5°	7.4	7.4	7.4	0.0	3.6	7.4	7.4	3.6	7.4	7.4	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: P248638

CATALOG NUMBER: LD8B150D010 ER8B150927 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8
2.5°	7642.6	7639.0	7642.6	7646.3	7642.6	7639.0	7642.6	7646.3	7631.6	7627.8	7635.2
5°	7805.0	7805.0	7812.2	7816.0	7812.2	7805.0	7805.0	7790.3	7779.2	7768.1	7764.4
7.5°	7945.2	7952.6	7959.9	7963.5	7959.9	7952.6	7945.2	7923.0	7900.9	7882.4	7867.7
10°	8030.1	8041.2	8055.9	8063.2	8055.9	8041.2	8030.1	8004.3	7974.7	7945.2	7923.0
12.5°	8067.0	8078.1	8096.5	8092.8	8096.5	8078.1	8067.0	8030.1	7996.8	7956.2	7923.0
15°	8041.2	8055.9	8074.2	8081.8	8074.2	8055.9	8041.2	8004.3	7974.7	7930.5	7897.2
17.5°	7959.9	7982.1	7993.1	8004.3	7993.1	7982.1	7959.9	7930.5	7889.8	7853.0	7819.8
20°	7849.2	7864.1	7878.8	7882.4	7878.8	7864.1	7849.2	7816.0	7753.4	7745.8	7720.1
22.5°	7690.6	7701.6	7734.8	7723.7	7734.8	7701.6	7690.6	7661.0	7639.0	7598.2	7572.4
25°	7461.7	7472.8	7476.6	7480.2	7476.6	7472.8	7461.7	7435.9	7413.9	7384.3	7369.5
27.5°	7066.9	7066.9	7074.2	7078.0	7074.2	7066.9	7066.9	7048.4	7033.6	7018.9	7004.1
30°	6469.1	6469.1	6469.1	6487.5	6469.1	6469.1	6469.1	6465.4	6465.4	6469.1	6469.1
32.5°	5779.0	5771.6	5764.3	5771.6	5764.3	5771.6	5779.0	5782.6	5779.0	5790.0	5808.5
35°	4996.6	4993.0	5004.0	4989.3	5004.0	4993.0	4996.6	4996.6	5011.4	5026.2	5029.9
37.5°	4247.4	4240.1	4254.9	4240.1	4254.9	4240.1	4247.4	4243.8	4240.1	4247.4	4236.5
40°	3535.3	3542.6	3542.6	3572.3	3542.6	3542.6	3535.3	3527.9	3502.1	3487.4	3472.6
42.5°	2852.5	2874.7	2867.3	2889.5	2867.3	2874.7	2852.5	2837.8	2808.2	2782.5	2760.4
45°	2206.7	2221.6	2221.6	2229.0	2221.6	2221.6	2206.7	2192.0	2166.2	2144.0	2129.3
47.5°	1693.8	1693.8	1693.8	1697.6	1693.8	1693.8	1693.8	1667.9	1660.7	1646.0	1627.4
50°	1287.9	1291.6	1295.3	1299.0	1295.3	1291.6	1287.9	1280.5	1276.9	1269.3	1265.7
52.5°	989.0	992.6	985.4	992.6	985.4	992.6	989.0	992.6	981.6	981.6	977.8
55°	749.1	745.5	749.1	752.7	749.1	745.5	749.1	749.1	745.5	745.5	745.5
57.5°	549.9	542.4	542.4	542.4	542.4	542.4	549.9	546.2	557.3	549.9	553.5
60°	409.6	413.3	413.3	416.9	413.3	413.3	409.6	416.9	416.9	420.8	420.8
62.5°	302.6	313.7	306.2	313.7	306.2	313.7	302.6	306.2	306.2	310.0	313.7
65°	195.6	195.6	195.6	199.2	195.6	195.6	195.6	199.2	203.0	199.2	210.4
67.5°	132.9	136.6	144.0	140.2	144.0	136.6	132.9	136.6	136.6	147.6	144.0
70°	107.1	96.0	96.0	107.1	96.0	96.0	107.1	99.7	96.0	103.3	99.7
72.5°	62.8	55.2	62.8	62.8	62.8	55.2	62.8	55.2	59.1	59.1	66.4
75°	33.3	29.5	25.9	36.9	25.9	29.5	33.3	33.3	33.3	33.3	36.9
77.5°	22.2	18.3	25.9	25.9	25.9	18.3	22.2	18.3	22.2	18.3	22.2
80°	11.1	14.7	11.1	18.3	11.1	14.7	11.1	18.3	11.1	14.7	14.7
82.5°	3.6	7.4	7.4	7.4	7.4	7.4	3.6	3.6	7.4	7.4	3.6
85°	0.0	7.4	3.6	3.6	3.6	7.4	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: P248638

CATALOG NUMBER: LD8B150D010 ER8B150927 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8
2.5°	7635.2	7624.1	7627.8	7605.7	7605.7	7598.2	7602.1	7583.5	7576.2	7568.8	7579.9
5°	7745.8	7727.5	7712.7	7679.5	7661.0	7639.0	7627.8	7598.2	7572.4	7550.2	7546.6
7.5°	7834.5	7793.9	7768.1	7723.7	7690.6	7664.7	7627.8	7587.1	7554.0	7524.4	7502.4
10°	7871.4	7830.8	7790.3	7734.8	7697.9	7649.9	7613.0	7561.4	7517.1	7476.6	7450.6
12.5°	7875.0	7823.4	7786.5	7723.7	7675.8	7624.1	7583.5	7524.4	7472.8	7432.2	7391.7
15°	7841.9	7793.9	7749.6	7683.2	7635.2	7587.1	7539.3	7476.6	7428.6	7380.6	7351.1
17.5°	7768.1	7723.7	7672.0	7609.4	7565.2	7520.7	7469.1	7417.5	7362.0	7310.4	7273.5
20°	7672.0	7624.1	7579.9	7517.1	7480.2	7432.2	7384.3	7328.9	7284.6	7233.0	7192.4
22.5°	7528.3	7483.8	7443.3	7406.4	7347.4	7310.4	7277.3	7214.5	7170.2	7122.3	7078.0
25°	7321.5	7277.3	7244.0	7199.7	7173.9	7133.3	7100.0	7044.8	7004.1	6959.8	6922.9
27.5°	6982.0	6956.2	6937.6	6911.9	6889.8	6871.3	6852.9	6808.5	6779.0	6738.5	6701.6
30°	6472.7	6469.1	6458.0	6446.9	6461.7	6461.7	6461.7	6454.3	6428.5	6398.9	6373.0
32.5°	5819.5	5827.0	5841.8	5852.8	5882.3	5915.6	5945.1	5959.8	5959.8	5941.3	5930.3
35°	5040.9	5052.0	5074.2	5103.7	5140.6	5181.2	5247.6	5262.4	5273.3	5273.3	5258.6
37.5°	4232.7	4229.1	4251.3	4277.0	4299.2	4328.7	4376.7	4387.8	4406.2	4398.9	4384.0
40°	3446.7	3428.3	3420.8	3428.3	3454.1	3443.1	3454.1	3446.7	3446.7	3420.8	3420.8
42.5°	2719.7	2697.6	2682.8	2671.9	2671.9	2645.9	2627.4	2609.1	2598.0	2579.5	2575.8
45°	2096.1	2070.2	2051.8	2044.4	2033.4	2000.1	1978.0	1955.8	1929.9	1922.7	1926.3
47.5°	1627.4	1601.6	1594.1	1575.8	1557.2	1538.9	1524.1	1498.3	1494.4	1479.7	1494.4
50°	1254.6	1247.4	1236.3	1228.8	1217.7	1203.0	1188.2	1173.5	1166.1	1166.1	1169.8
52.5°	974.2	977.8	966.8	955.7	948.5	948.5	929.9	926.2	926.2	911.5	926.2
55°	745.5	741.7	745.5	738.1	738.1	727.0	727.0	715.8	715.8	704.8	712.2
57.5°	546.2	553.5	546.2	549.9	557.3	546.2	542.4	531.3	538.8	531.3	535.2
60°	424.4	424.4	424.4	420.8	420.8	416.9	416.9	413.3	413.3	405.9	413.3
62.5°	313.7	317.4	317.4	317.4	321.1	317.4	313.7	317.4	313.7	313.7	317.4
65°	206.8	210.4	210.4	206.8	214.0	206.8	210.4	214.0	217.7	214.0	217.7
67.5°	140.2	140.2	144.0	147.6	144.0	147.6	151.3	147.6	151.3	158.7	151.3
70°	103.3	107.1	107.1	103.3	99.7	103.3	99.7	110.7	110.7	110.7	118.0
72.5°	66.4	66.4	62.8	62.8	62.8	62.8	62.8	73.8	66.4	62.8	70.2
75°	36.9	40.5	40.5	29.5	33.3	40.5	29.5	33.3	44.3	36.9	44.3
77.5°	22.2	22.2	22.2	22.2	22.2	22.2	29.5	25.9	25.9	25.9	29.5
80°	18.3	14.7	14.7	11.1	14.7	14.7	14.7	22.2	18.3	18.3	22.2
82.5°	7.4	7.4	3.6	0.0	7.4	7.4	7.4	7.4	7.4	7.4	14.7
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	7.4	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: P248638

CATALOG NUMBER: LD8B150D010 ER8B150927 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8
2.5°	7550.2	7550.2	7546.6	7539.3	7524.4	7524.4	7520.7	7509.7	7502.4	7498.6	7498.6
5°	7513.3	7498.6	7483.8	7443.3	7443.3	7435.9	7413.9	7399.0	7391.7	7373.1	7365.8
7.5°	7480.2	7435.9	7410.0	7384.3	7351.1	7336.2	7310.4	7299.3	7273.5	7255.1	7244.0
10°	7399.0	7369.5	7336.2	7295.6	7269.9	7240.4	7210.8	7188.8	7155.4	7137.0	7122.3
12.5°	7343.7	7299.3	7269.9	7225.5	7181.3	7155.4	7115.0	7089.1	7055.9	7018.9	6996.7
15°	7292.0	7244.0	7203.5	7155.4	7107.5	7078.0	7030.0	7000.5	6952.5	6915.6	6889.8
17.5°	7214.5	7173.9	7129.7	7070.5	7026.4	6989.4	6937.6	6900.9	6856.5	6808.5	6782.7
20°	7133.3	7085.2	7041.2	6982.0	6937.6	6893.4	6841.8	6801.3	6749.4	6705.2	6675.8
22.5°	7026.4	6971.0	6934.0	6874.9	6823.2	6775.4	6727.4	6679.5	6631.4	6594.5	6561.2
25°	6871.3	6812.2	6771.6	6723.7	6675.8	6638.8	6579.8	6550.3	6502.3	6469.1	6435.8
27.5°	6649.8	6605.7	6568.6	6520.7	6480.1	6450.6	6406.3	6376.8	6336.1	6306.6	6280.9
30°	6325.2	6288.3	6255.0	6207.1	6177.6	6151.7	6111.0	6085.2	6055.8	6022.5	6015.2
32.5°	5889.7	5860.1	5827.0	5793.8	5771.6	5756.8	5723.6	5708.8	5679.3	5660.8	5642.4
35°	5232.8	5207.0	5188.6	5173.9	5166.4	5170.0	5162.7	5177.5	5184.8	5181.2	5184.8
37.5°	4373.1	4358.1	4365.6	4376.7	4413.6	4461.6	4505.8	4572.2	4616.6	4660.9	4701.5
40°	3413.6	3424.6	3454.1	3520.5	3616.4	3723.5	3823.2	3948.6	4074.2	4162.7	4243.8
42.5°	2575.8	2609.1	2682.8	2778.8	2922.8	3081.4	3236.4	3420.8	3572.3	3719.8	3823.2
45°	1937.5	1981.6	2077.6	2210.5	2369.1	2553.6	2749.3	2955.8	3136.8	3288.0	3402.4
47.5°	1509.4	1549.9	1646.0	1786.2	1981.6	2173.6	2376.6	2590.5	2778.8	2926.5	3026.0
50°	1191.9	1243.6	1328.5	1476.1	1671.8	1874.7	2085.1	2295.3	2472.5	2598.0	2686.6
52.5°	937.4	985.4	1066.5	1221.5	1420.9	1623.7	1819.2	2026.0	2180.9	2302.8	2361.8
55°	727.0	771.3	856.1	985.4	1173.5	1372.8	1568.4	1745.6	1889.4	1978.0	2033.4
57.5°	553.5	586.8	645.9	775.0	944.8	1129.2	1295.3	1472.5	1583.2	1646.0	1682.7
60°	420.8	446.6	509.3	609.0	763.9	922.6	1062.8	1195.8	1284.3	1335.9	1372.8
62.5°	317.4	347.0	391.2	476.0	594.1	723.4	841.4	941.0	1014.9	1048.0	1073.9
65°	217.7	239.8	273.2	339.5	439.1	531.3	623.7	697.5	745.5	782.4	797.2
67.5°	162.3	177.1	195.6	247.3	317.4	391.2	453.8	505.5	557.3	572.1	597.8
70°	121.8	132.9	151.3	188.2	228.7	280.3	332.2	361.7	398.6	424.4	431.9
72.5°	77.5	81.1	99.7	121.8	154.9	188.2	221.5	247.3	269.4	284.2	291.5
75°	44.3	66.4	66.4	88.5	110.7	125.4	147.6	166.0	177.1	188.2	188.2
77.5°	29.5	40.5	44.3	55.2	66.4	84.9	103.3	114.4	125.4	129.2	129.2
80°	25.9	29.5	29.5	40.5	48.0	62.8	73.8	77.5	84.9	88.5	96.0
82.5°	11.1	14.7	18.3	29.5	33.3	33.3	44.3	48.0	55.2	59.1	59.1
85°	3.6	7.4	7.4	11.1	18.3	22.2	25.9	29.5	33.3	33.3	36.9
87.5°	3.6	3.6	0.0	3.6	7.4	7.4	14.7	14.7	14.7	22.2	22.2
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: P248638

CATALOG NUMBER: LD8B150D010 ER8B150927 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8	7557.8
2.5°	7491.3	7495.0	7480.2	7476.6	7469.1	7472.8	7480.2
5°	7354.8	7358.4	7343.7	7328.9	7328.9	7325.1	7328.9
7.5°	7225.5	7229.2	7207.1	7199.7	7184.9	7188.8	7188.8
10°	7096.4	7096.4	7063.3	7059.5	7048.4	7044.8	7044.8
12.5°	6971.0	6959.8	6934.0	6919.3	6926.7	6904.6	6904.6
15°	6860.1	6841.8	6808.5	6797.5	6779.0	6771.6	6771.6
17.5°	6745.8	6731.1	6701.6	6679.5	6657.3	6653.6	6657.3
20°	6635.1	6620.4	6583.4	6568.6	6550.3	6550.3	6542.9
22.5°	6524.3	6509.6	6476.5	6465.4	6439.6	6439.6	6443.2
25°	6410.0	6398.9	6362.0	6354.7	6351.1	6336.1	6343.7
27.5°	6255.0	6247.6	6218.1	6207.1	6192.3	6188.6	6195.9
30°	5970.8	5959.8	5937.8	5926.6	5900.8	5904.4	5911.8
32.5°	5616.7	5601.9	5572.2	5561.2	5539.2	5531.7	5535.3
35°	5173.9	5162.7	5137.0	5137.0	5114.8	5107.3	5114.8
37.5°	4723.7	4734.6	4723.7	4734.6	4723.7	4719.8	4723.7
40°	4299.2	4339.8	4347.1	4387.8	4373.1	4395.0	4391.4
42.5°	3893.2	3959.6	3985.5	4018.7	4011.4	4026.2	4037.2
45°	3483.6	3539.0	3564.8	3587.0	3590.7	3598.1	3601.7
47.5°	3096.1	3140.4	3144.0	3169.9	3166.2	3166.2	3177.3
50°	2734.5	2764.0	2771.3	2789.9	2775.2	2767.7	2771.3
52.5°	2398.7	2428.2	2420.8	2428.2	2409.9	2402.3	2406.0
55°	2055.5	2070.2	2070.2	2070.2	2048.2	2048.2	2048.2
57.5°	1704.8	1708.6	1701.2	1704.8	1701.2	1679.1	1675.4
60°	1383.9	1383.9	1380.1	1383.9	1372.8	1361.7	1361.7
62.5°	1081.2	1088.7	1103.4	1088.7	1081.2	1088.7	1077.5
65°	808.2	822.9	819.2	826.6	822.9	822.9	815.5
67.5°	609.0	612.6	616.3	620.0	620.0	620.0	620.0
70°	446.6	457.6	453.8	453.8	453.8	453.8	476.0
72.5°	298.9	313.7	310.0	317.4	317.4	324.8	317.4
75°	203.0	217.7	210.4	221.5	217.7	210.4	228.7
77.5°	136.6	144.0	147.6	151.3	147.6	144.0	147.6
80°	96.0	103.3	99.7	103.3	103.3	103.3	107.1
82.5°	59.1	70.2	66.4	70.2	66.4	70.2	70.2
85°	40.5	44.3	36.9	44.3	40.5	40.5	48.0
87.5°	25.9	22.2	22.2	25.9	22.2	25.9	22.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)