

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: P248584

Luminaire Tested: **LD8B150D010 ER8B150850 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248584
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 ER8B150850 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16462.0 lumens
Efficiency: N/A
Efficacy: 103.9 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

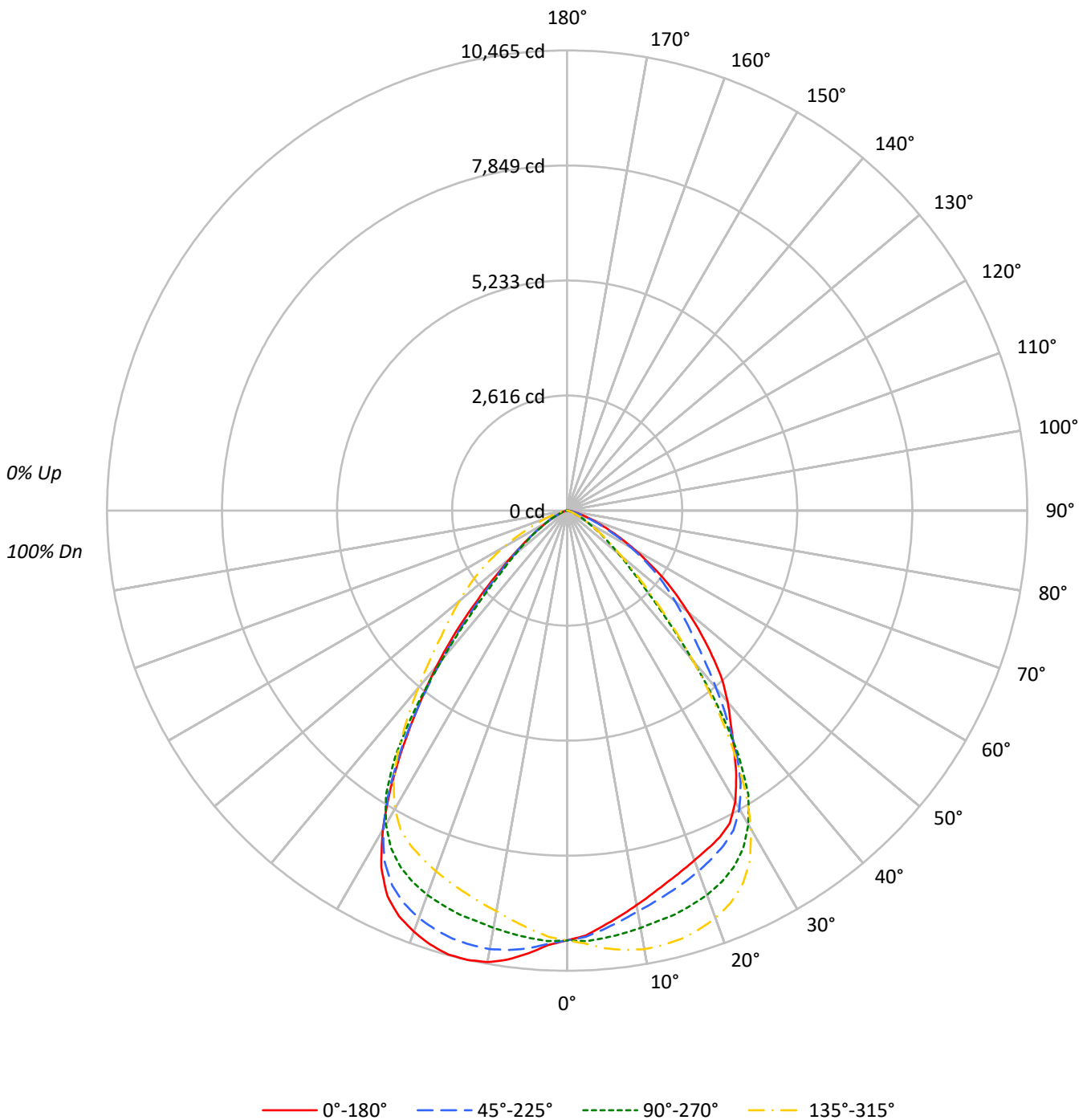
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	301363	301363	301363	301363
5°	293358	302069	312856	302069
10°	285243	301676	326478	301676
15°	279543	303464	333626	303464
20°	277641	305202	334483	305202
25°	279100	304587	329108	304587
30°	272199	293438	298712	293438
35°	248979	255980	242869	255980
40°	228586	178063	185949	178063
45°	203110	108630	125690	108630
50°	171915	72564	80585	72564
55°	142387	49514	52331	49514
60°	108599	32964	33254	32964
65°	76949	20540	18803	20540
70°	55502	13758	12487	13758
75°	35242	6839	5683	6839
80°	24595	5097	4226	5097
85°	21971	0	1663	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	930.2	5.7
10°-20°	2693.7	16.4
20°-30°	4078.8	24.8
30°-40°	4088.0	24.8
40°-50°	2567.0	15.6
50°-60°	1368.0	8.3
60°-70°	562.5	3.4
70°-80°	148.6	0.9
80°-90°	25.1	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°	7702.7	46.8
0°-40°	11790.7	71.6
0°-60°	15725.7	95.5
0°-90°	16462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16462.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9773	9773	9773	9773	9773	
5°	9477	9759	10107	9759	9477	894
15°	8756	9506	10451	9506	8756	2477
25°	8203	8952	9673	8952	8203	3762
35°	6614	6800	6452	6800	6614	4144
45°	4658	2491	2882	2491	4658	3582
55°	2648	921	973	921	2648	2361
65°	1055	282	258	282	1055	1094
75°	296	57	48	57	296	335
85°	62	0	5	0	62	68
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°	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0
2.5°	9672.8	9663.2	9658.5	9668.1	9672.8	9691.8	9687.1	9696.6	9696.6	9701.5	9710.9
5°	9477.2	9472.3	9477.2	9477.2	9496.2	9515.3	9510.6	9524.9	9534.3	9558.3	9567.7
7.5°	9295.9	9295.9	9291.0	9310.0	9319.6	9348.3	9343.4	9367.4	9381.7	9405.5	9438.9
10°	9109.7	9109.7	9114.4	9128.7	9133.6	9176.4	9176.4	9209.8	9228.9	9252.9	9295.9
12.5°	8928.4	8928.4	8957.0	8947.4	8966.5	8999.9	9014.2	9047.6	9076.3	9124.0	9167.0
15°	8756.5	8756.5	8766.1	8789.9	8804.2	8847.3	8871.0	8909.3	8942.7	8990.4	9052.5
17.5°	8608.6	8603.9	8608.6	8637.3	8666.0	8704.1	8723.1	8770.8	8804.2	8866.3	8923.7
20°	8460.7	8470.3	8470.3	8494.1	8513.1	8560.9	8579.9	8632.6	8670.7	8727.8	8794.8
22.5°	8331.9	8327.1	8327.1	8360.5	8374.9	8417.7	8436.7	8484.5	8527.5	8575.2	8637.3
25°	8203.0	8193.4	8212.6	8217.3	8226.8	8274.5	8288.8	8322.2	8365.2	8408.3	8470.3
27.5°	8012.1	8002.7	8007.4	8026.4	8040.8	8078.9	8088.5	8121.9	8155.3	8193.4	8246.0
30°	7644.6	7635.2	7630.4	7663.8	7678.2	7706.7	7721.0	7778.3	7787.8	7830.8	7868.9
32.5°	7157.9	7153.1	7162.8	7191.3	7205.6	7243.9	7262.9	7296.3	7320.1	7344.1	7382.2
35°	6614.0	6604.4	6614.0	6642.7	6642.7	6676.0	6690.4	6704.5	6699.8	6704.5	6695.1
37.5°	6108.2	6103.3	6108.2	6122.3	6108.2	6122.3	6108.2	6079.5	6027.1	5969.7	5912.4
40°	5678.6	5683.4	5654.9	5673.9	5621.3	5611.9	5559.4	5487.7	5382.8	5268.3	5106.1
42.5°	5220.6	5206.3	5187.2	5196.6	5153.8	5120.2	5034.4	4943.8	4810.1	4619.4	4423.5
45°	4657.5	4652.7	4643.1	4638.4	4609.7	4576.3	4504.6	4399.8	4251.9	4056.2	3822.3
47.5°	4108.7	4094.3	4094.3	4099.0	4065.7	4060.9	4003.6	3913.0	3784.2	3593.3	3349.9
50°	3583.6	3578.9	3588.6	3607.6	3583.6	3574.2	3536.1	3474.0	3359.5	3197.3	2968.1
52.5°	3111.3	3106.5	3116.2	3139.9	3130.3	3139.9	3101.8	3054.1	2977.7	2820.2	2619.8
55°	2648.5	2648.5	2648.5	2677.0	2677.0	2677.0	2657.9	2629.4	2557.8	2443.2	2257.2
57.5°	2166.5	2171.2	2199.9	2204.6	2199.9	2209.5	2204.6	2175.9	2128.4	2047.3	1904.1
60°	1760.9	1760.9	1775.2	1789.6	1784.7	1789.6	1789.6	1775.2	1727.5	1660.7	1546.2
62.5°	1393.4	1407.7	1398.1	1407.7	1426.8	1407.7	1398.1	1388.7	1355.3	1312.3	1216.8
65°	1054.6	1064.2	1064.2	1068.9	1059.3	1064.2	1045.1	1030.8	1011.7	964.0	902.0
67.5°	801.8	801.8	801.8	801.8	796.9	792.2	787.4	773.1	739.7	720.7	653.7
70°	615.6	586.9	586.9	586.9	586.9	591.8	577.5	558.4	548.8	515.4	467.7
72.5°	410.3	419.9	410.3	410.3	400.9	405.6	386.6	376.9	367.5	348.4	319.8
75°	295.8	272.0	281.5	286.4	272.0	281.5	262.4	243.4	243.4	229.0	214.7
77.5°	190.9	186.2	190.9	195.6	190.9	186.2	176.6	167.0	167.0	162.2	147.9
80°	138.5	133.6	133.6	133.6	128.9	133.6	124.1	124.1	114.5	109.8	100.2
82.5°	90.7	90.7	85.8	90.7	85.8	90.7	76.4	76.4	76.4	71.5	62.1
85°	62.1	52.4	52.4	57.4	47.7	57.4	52.4	47.7	43.0	43.0	38.1
87.5°	28.7	33.4	28.7	33.4	28.7	28.7	33.4	28.7	28.7	19.1	19.1
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: P248584

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0H

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0
2.5°	9725.2	9730.0	9730.0	9749.2	9758.6	9763.3	9763.3	9801.6	9787.3	9796.9	9806.4
5°	9587.0	9615.4	9625.1	9625.1	9677.5	9696.6	9715.6	9758.6	9763.3	9792.0	9825.4
7.5°	9453.2	9486.6	9505.8	9548.7	9582.0	9615.4	9672.8	9701.5	9730.0	9768.3	9811.1
10°	9324.3	9362.7	9400.8	9434.1	9486.6	9529.6	9567.7	9634.5	9668.1	9720.5	9777.7
12.5°	9200.4	9252.9	9286.2	9343.4	9400.8	9438.9	9496.2	9558.3	9610.7	9663.2	9730.0
15°	9090.6	9152.7	9190.8	9252.9	9314.9	9367.4	9429.4	9505.8	9543.9	9606.0	9668.1
17.5°	8971.2	9038.2	9085.9	9143.1	9219.5	9276.6	9329.3	9405.5	9453.2	9520.0	9591.7
20°	8847.3	8914.0	8971.2	9028.5	9105.0	9162.1	9224.2	9300.6	9353.0	9419.8	9477.2
22.5°	8699.3	8761.4	8823.3	8890.1	8966.5	9014.2	9085.9	9152.7	9209.8	9271.9	9329.3
25°	8508.4	8584.8	8632.6	8694.4	8756.5	8808.9	8885.4	8952.1	8999.9	9057.2	9109.7
27.5°	8284.1	8341.5	8379.6	8432.0	8494.1	8541.8	8599.0	8666.0	8713.7	8766.1	8804.2
30°	7902.3	7954.9	7988.3	8026.4	8088.5	8131.5	8179.2	8241.1	8274.5	8312.8	8346.2
32.5°	7401.2	7444.2	7463.3	7492.0	7535.0	7577.8	7616.1	7668.5	7682.9	7706.7	7706.7
35°	6676.0	6685.5	6680.8	6690.4	6709.4	6733.2	6766.6	6800.0	6819.0	6819.0	6804.9
37.5°	5826.5	5769.4	5707.3	5659.6	5645.2	5635.6	5654.9	5669.0	5688.3	5697.7	5673.9
40°	4943.8	4815.0	4676.5	4552.4	4466.5	4428.4	4414.1	4423.5	4423.5	4456.9	4456.9
42.5°	4185.1	3984.5	3779.5	3593.3	3469.1	3373.9	3330.9	3330.9	3335.6	3359.5	3373.9
45°	3555.2	3302.2	3063.5	2858.5	2686.6	2562.5	2505.3	2491.0	2486.3	2495.7	2529.1
47.5°	3073.2	2810.7	2562.5	2309.7	2128.4	2004.2	1951.8	1932.6	1913.5	1932.6	1937.5
50°	2696.2	2424.2	2161.8	1908.8	1717.9	1608.1	1541.3	1512.6	1507.9	1507.9	1517.5
52.5°	2352.5	2099.7	1837.3	1579.6	1379.0	1274.2	1212.1	1197.8	1178.7	1197.8	1197.8
55°	2028.0	1775.2	1517.5	1274.2	1107.0	997.4	940.1	921.0	911.4	925.7	925.7
57.5°	1675.1	1460.2	1221.7	1002.1	835.2	758.8	715.7	692.0	687.1	696.7	687.1
60°	1374.3	1193.0	987.8	787.4	658.6	577.5	544.1	534.5	524.8	534.5	534.5
62.5°	1088.0	935.3	768.2	615.6	505.8	448.6	410.3	410.3	405.6	405.6	410.3
65°	806.5	687.1	567.8	439.0	353.2	310.1	281.5	281.5	276.8	281.5	276.8
67.5°	586.9	505.8	410.3	319.8	253.0	229.0	210.0	195.6	205.3	195.6	190.9
70°	429.6	362.6	295.8	243.4	195.6	171.9	157.5	152.6	143.2	143.2	143.2
72.5°	286.4	243.4	200.3	157.5	128.9	104.9	100.2	90.7	81.1	85.8	95.5
75°	190.9	162.2	143.2	114.5	85.8	85.8	57.4	57.4	47.7	57.4	43.0
77.5°	133.6	109.8	85.8	71.5	57.4	52.4	38.1	38.1	33.4	33.4	33.4
80°	95.5	81.1	62.1	52.4	38.1	38.1	33.4	28.7	23.8	23.8	28.7
82.5°	57.4	43.0	43.0	38.1	23.8	19.1	14.3	19.1	9.6	9.6	9.6
85°	33.4	28.7	23.8	14.3	9.6	9.6	4.7	0.0	4.7	4.7	0.0
87.5°	19.1	9.6	9.6	4.7	0.0	4.7	4.7	0.0	0.0	0.0	9.6
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: P248584

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0H

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0
2.5°	9830.3	9825.4	9835.0	9835.0	9863.7	9858.8	9873.1	9873.1	9863.7	9868.4	9887.5
5°	9863.7	9878.1	9906.5	9930.5	9973.3	9992.6	10016.3	10040.3	10045.0	10059.3	10073.7
7.5°	9863.7	9911.4	9944.8	9987.7	10045.0	10078.4	10130.8	10173.9	10192.9	10216.7	10245.4
10°	9844.5	9892.2	9954.3	10002.0	10073.7	10126.1	10178.6	10245.4	10274.0	10312.1	10350.4
12.5°	9806.4	9858.8	9925.6	9987.7	10068.8	10116.5	10183.3	10245.4	10288.4	10340.8	10383.8
15°	9749.2	9811.1	9873.1	9935.2	10021.0	10078.4	10140.5	10212.0	10255.0	10312.1	10350.4
17.5°	9658.5	9725.2	9782.6	9839.8	9920.9	9987.7	10045.0	10111.8	10154.8	10202.5	10255.0
20°	9548.7	9610.7	9672.8	9720.5	9801.6	9858.8	9920.9	9982.9	10016.3	10026.0	10107.1
22.5°	9410.4	9453.2	9500.9	9577.3	9625.1	9677.5	9734.9	9792.0	9825.4	9878.1	9906.5
25°	9181.2	9224.2	9276.6	9310.0	9367.4	9410.4	9467.5	9529.6	9548.7	9587.0	9615.4
27.5°	8861.6	8885.4	8909.3	8937.8	8971.2	8995.2	9028.5	9057.2	9076.3	9095.3	9114.4
30°	8355.6	8355.6	8355.6	8336.6	8350.9	8365.2	8370.0	8365.2	8365.2	8360.5	8360.5
32.5°	7687.6	7649.5	7606.5	7568.4	7554.0	7535.0	7525.4	7511.0	7487.3	7472.9	7477.6
35°	6785.6	6699.8	6647.4	6599.6	6561.5	6532.9	6518.5	6504.2	6499.5	6480.4	6461.2
37.5°	5659.6	5597.5	5559.4	5530.7	5497.3	5468.7	5473.4	5478.3	5492.4	5483.0	5487.7
40°	4466.5	4452.2	4466.5	4433.2	4423.5	4433.2	4456.9	4490.5	4509.6	4528.6	4562.0
42.5°	3397.6	3421.4	3455.0	3455.0	3469.1	3488.4	3516.9	3569.5	3598.0	3631.4	3669.7
45°	2557.8	2586.4	2629.4	2643.6	2653.2	2677.0	2710.6	2753.4	2772.4	2801.1	2834.5
47.5°	1970.9	1989.9	2013.7	2037.6	2061.4	2071.0	2104.4	2104.4	2128.4	2147.4	2156.9
50°	1536.6	1555.6	1574.7	1589.0	1598.6	1613.0	1622.4	1636.8	1641.5	1651.1	1655.8
52.5°	1202.5	1226.4	1226.4	1235.9	1250.2	1264.5	1259.8	1264.5	1269.3	1269.3	1283.6
55°	940.1	940.1	954.4	954.4	964.0	959.1	964.0	964.0	964.0	964.0	968.7
57.5°	701.4	706.3	720.7	711.0	706.3	715.7	706.3	715.7	711.0	720.7	706.3
60°	539.2	539.2	544.1	544.1	548.8	548.8	548.8	544.1	544.1	539.2	539.2
62.5°	405.6	410.3	415.2	410.3	410.3	410.3	405.6	405.6	400.9	396.0	396.0
65°	272.0	267.3	276.8	267.3	272.0	272.0	267.3	272.0	257.7	262.4	257.7
67.5°	195.6	190.9	186.2	190.9	186.2	181.3	181.3	186.2	190.9	176.6	176.6
70°	128.9	133.6	128.9	133.6	138.5	138.5	133.6	128.9	133.6	124.1	128.9
72.5°	81.1	81.1	81.1	81.1	81.1	85.8	85.8	85.8	76.4	76.4	71.5
75°	38.1	52.4	43.0	38.1	52.4	52.4	47.7	47.7	43.0	43.0	43.0
77.5°	38.1	28.7	28.7	28.7	28.7	28.7	28.7	28.7	23.8	28.7	23.8
80°	19.1	19.1	19.1	14.3	19.1	19.1	23.8	19.1	19.1	14.3	23.8
82.5°	9.6	9.6	9.6	0.0	4.7	9.6	9.6	4.7	9.6	9.6	4.7
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: P248584

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0
2.5°	9882.8	9878.1	9882.8	9887.5	9882.8	9878.1	9882.8	9887.5	9868.4	9863.7	9873.1
5°	10092.7	10092.7	10102.2	10107.1	10102.2	10092.7	10092.7	10073.7	10059.3	10045.0	10040.3
7.5°	10274.0	10283.7	10293.1	10297.8	10293.1	10283.7	10274.0	10245.4	10216.7	10192.9	10173.9
10°	10383.8	10398.2	10417.2	10426.6	10417.2	10398.2	10383.8	10350.4	10312.1	10274.0	10245.4
12.5°	10431.6	10445.9	10469.7	10464.9	10469.7	10445.9	10431.6	10383.8	10340.8	10288.4	10245.4
15°	10398.2	10417.2	10441.0	10450.6	10441.0	10417.2	10398.2	10350.4	10312.1	10255.0	10212.0
17.5°	10293.1	10321.8	10336.1	10350.4	10336.1	10321.8	10293.1	10255.0	10202.5	10154.8	10111.8
20°	10149.9	10169.1	10188.2	10192.9	10188.2	10169.1	10149.9	10107.1	10026.0	10016.3	9982.9
22.5°	9944.8	9959.2	10002.0	9987.7	10002.0	9959.2	9944.8	9906.5	9878.1	9825.4	9792.0
25°	9648.8	9663.2	9668.1	9672.8	9668.1	9663.2	9648.8	9615.4	9587.0	9548.7	9529.6
27.5°	9138.3	9138.3	9147.8	9152.7	9147.8	9138.3	9138.3	9114.4	9095.3	9076.3	9057.2
30°	8365.2	8365.2	8365.2	8389.2	8365.2	8365.2	8365.2	8360.5	8360.5	8365.2	8365.2
32.5°	7472.9	7463.3	7453.9	7463.3	7453.9	7463.3	7472.9	7477.6	7472.9	7487.3	7511.0
35°	6461.2	6456.5	6470.8	6451.7	6470.8	6456.5	6461.2	6461.2	6480.4	6499.5	6504.2
37.5°	5492.4	5483.0	5502.1	5483.0	5502.1	5483.0	5492.4	5487.7	5483.0	5492.4	5478.3
40°	4571.6	4581.1	4581.1	4619.4	4581.1	4581.1	4571.6	4562.0	4528.6	4509.6	4490.5
42.5°	3688.7	3717.4	3707.8	3736.5	3707.8	3717.4	3688.7	3669.7	3631.4	3598.0	3569.5
45°	2853.6	2872.8	2872.8	2882.2	2872.8	2872.8	2853.6	2834.5	2801.1	2772.4	2753.4
47.5°	2190.3	2190.3	2190.3	2195.2	2190.3	2190.3	2190.3	2156.9	2147.4	2128.4	2104.4
50°	1665.4	1670.1	1675.1	1679.8	1675.1	1670.1	1665.4	1655.8	1651.1	1641.5	1636.8
52.5°	1278.9	1283.6	1274.2	1283.6	1274.2	1283.6	1278.9	1283.6	1269.3	1269.3	1264.5
55°	968.7	964.0	968.7	973.4	968.7	964.0	968.7	968.7	964.0	964.0	964.0
57.5°	711.0	701.4	701.4	701.4	701.4	701.4	711.0	706.3	720.7	711.0	715.7
60°	529.7	534.5	534.5	539.2	534.5	534.5	529.7	539.2	539.2	544.1	544.1
62.5°	391.3	405.6	396.0	405.6	396.0	405.6	391.3	396.0	396.0	400.9	405.6
65°	253.0	253.0	253.0	257.7	253.0	253.0	253.0	257.7	262.4	257.7	272.0
67.5°	171.9	176.6	186.2	181.3	186.2	176.6	171.9	176.6	176.6	190.9	186.2
70°	138.5	124.1	124.1	138.5	124.1	124.1	138.5	128.9	124.1	133.6	128.9
72.5°	81.1	71.5	81.1	81.1	81.1	71.5	81.1	71.5	76.4	76.4	85.8
75°	43.0	38.1	33.4	47.7	33.4	38.1	43.0	43.0	43.0	43.0	47.7
77.5°	28.7	23.8	33.4	33.4	33.4	23.8	28.7	23.8	28.7	23.8	28.7
80°	14.3	19.1	14.3	23.8	14.3	19.1	14.3	23.8	14.3	19.1	19.1
82.5°	4.7	9.6	9.6	9.6	9.6	9.6	4.7	4.7	9.6	9.6	4.7
85°	0.0	9.6	4.7	4.7	4.7	9.6	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	0.0	0.0	4.7	0.0	0.0	4.7	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: P248584

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0
2.5°	9873.1	9858.8	9863.7	9835.0	9835.0	9825.4	9830.3	9806.4	9796.9	9787.3	9801.6
5°	10016.3	9992.6	9973.3	9930.5	9906.5	9878.1	9863.7	9825.4	9792.0	9763.3	9758.6
7.5°	10130.8	10078.4	10045.0	9987.7	9944.8	9911.4	9863.7	9811.1	9768.3	9730.0	9701.5
10°	10178.6	10126.1	10073.7	10002.0	9954.3	9892.2	9844.5	9777.7	9720.5	9668.1	9634.5
12.5°	10183.3	10116.5	10068.8	9987.7	9925.6	9858.8	9806.4	9730.0	9663.2	9610.7	9558.3
15°	10140.5	10078.4	10021.0	9935.2	9873.1	9811.1	9749.2	9668.1	9606.0	9543.9	9505.8
17.5°	10045.0	9987.7	9920.9	9839.8	9782.6	9725.2	9658.5	9591.7	9520.0	9453.2	9405.5
20°	9920.9	9858.8	9801.6	9720.5	9672.8	9610.7	9548.7	9477.2	9419.8	9353.0	9300.6
22.5°	9734.9	9677.5	9625.1	9577.3	9500.9	9453.2	9410.4	9329.3	9271.9	9209.8	9152.7
25°	9467.5	9410.4	9367.4	9310.0	9276.6	9224.2	9181.2	9109.7	9057.2	8999.9	8952.1
27.5°	9028.5	8995.2	8971.2	8937.8	8909.3	8885.4	8861.6	8804.2	8766.1	8713.7	8666.0
30°	8370.0	8365.2	8350.9	8336.6	8355.6	8355.6	8355.6	8346.2	8312.8	8274.5	8241.1
32.5°	7525.4	7535.0	7554.0	7568.4	7606.5	7649.5	7687.6	7706.7	7706.7	7682.9	7668.5
35°	6518.5	6532.9	6561.5	6599.6	6647.4	6699.8	6785.6	6804.9	6819.0	6819.0	6800.0
37.5°	5473.4	5468.7	5497.3	5530.7	5559.4	5597.5	5659.6	5673.9	5697.7	5688.3	5669.0
40°	4456.9	4433.2	4423.5	4433.2	4466.5	4452.2	4466.5	4456.9	4456.9	4423.5	4423.5
42.5°	3516.9	3488.4	3469.1	3455.0	3455.0	3421.4	3397.6	3373.9	3359.5	3335.6	3330.9
45°	2710.6	2677.0	2653.2	2643.6	2629.4	2586.4	2557.8	2529.1	2495.7	2486.3	2491.0
47.5°	2104.4	2071.0	2061.4	2037.6	2013.7	1989.9	1970.9	1937.5	1932.6	1913.5	1932.6
50°	1622.4	1613.0	1598.6	1589.0	1574.7	1555.6	1536.6	1517.5	1507.9	1507.9	1512.6
52.5°	1259.8	1264.5	1250.2	1235.9	1226.4	1226.4	1202.5	1197.8	1197.8	1178.7	1197.8
55°	964.0	959.1	964.0	954.4	954.4	940.1	940.1	925.7	925.7	911.4	921.0
57.5°	706.3	715.7	706.3	711.0	720.7	706.3	701.4	687.1	696.7	687.1	692.0
60°	548.8	548.8	548.8	544.1	544.1	539.2	539.2	534.5	534.5	524.8	534.5
62.5°	405.6	410.3	410.3	410.3	415.2	410.3	405.6	410.3	405.6	405.6	410.3
65°	267.3	272.0	272.0	267.3	276.8	267.3	272.0	276.8	281.5	276.8	281.5
67.5°	181.3	181.3	186.2	190.9	186.2	190.9	195.6	190.9	195.6	205.3	195.6
70°	133.6	138.5	138.5	133.6	128.9	133.6	128.9	143.2	143.2	143.2	152.6
72.5°	85.8	85.8	81.1	81.1	81.1	81.1	81.1	95.5	85.8	81.1	90.7
75°	47.7	52.4	52.4	38.1	43.0	52.4	38.1	43.0	57.4	47.7	57.4
77.5°	28.7	28.7	28.7	28.7	28.7	28.7	38.1	33.4	33.4	33.4	38.1
80°	23.8	19.1	19.1	14.3	19.1	19.1	19.1	28.7	23.8	23.8	28.7
82.5°	9.6	9.6	4.7	0.0	9.6	9.6	9.6	9.6	9.6	9.6	19.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	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: P248584

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0
2.5°	9763.3	9763.3	9758.6	9749.2	9730.0	9730.0	9725.2	9710.9	9701.5	9696.6	9696.6
5°	9715.6	9696.6	9677.5	9625.1	9625.1	9615.4	9587.0	9567.7	9558.3	9534.3	9524.9
7.5°	9672.8	9615.4	9582.0	9548.7	9505.8	9486.6	9453.2	9438.9	9405.5	9381.7	9367.4
10°	9567.7	9529.6	9486.6	9434.1	9400.8	9362.7	9324.3	9295.9	9252.9	9228.9	9209.8
12.5°	9496.2	9438.9	9400.8	9343.4	9286.2	9252.9	9200.4	9167.0	9124.0	9076.3	9047.6
15°	9429.4	9367.4	9314.9	9252.9	9190.8	9152.7	9090.6	9052.5	8990.4	8942.7	8909.3
17.5°	9329.3	9276.6	9219.5	9143.1	9085.9	9038.2	8971.2	8923.7	8866.3	8804.2	8770.8
20°	9224.2	9162.1	9105.0	9028.5	8971.2	8914.0	8847.3	8794.8	8727.8	8670.7	8632.6
22.5°	9085.9	9014.2	8966.5	8890.1	8823.3	8761.4	8699.3	8637.3	8575.2	8527.5	8484.5
25°	8885.4	8808.9	8756.5	8694.4	8632.6	8584.8	8508.4	8470.3	8408.3	8365.2	8322.2
27.5°	8599.0	8541.8	8494.1	8432.0	8379.6	8341.5	8284.1	8246.0	8193.4	8155.3	8121.9
30°	8179.2	8131.5	8088.5	8026.4	7988.3	7954.9	7902.3	7868.9	7830.8	7787.8	7778.3
32.5°	7616.1	7577.8	7535.0	7492.0	7463.3	7444.2	7401.2	7382.2	7344.1	7320.1	7296.3
35°	6766.6	6733.2	6709.4	6690.4	6680.8	6685.5	6676.0	6695.1	6704.5	6699.8	6704.5
37.5°	5654.9	5635.6	5645.2	5659.6	5707.3	5769.4	5826.5	5912.4	5969.7	6027.1	6079.5
40°	4414.1	4428.4	4466.5	4552.4	4676.5	4815.0	4943.8	5106.1	5268.3	5382.8	5487.7
42.5°	3330.9	3373.9	3469.1	3593.3	3779.5	3984.5	4185.1	4423.5	4619.4	4810.1	4943.8
45°	2505.3	2562.5	2686.6	2858.5	3063.5	3302.2	3555.2	3822.3	4056.2	4251.9	4399.8
47.5°	1951.8	2004.2	2128.4	2309.7	2562.5	2810.7	3073.2	3349.9	3593.3	3784.2	3913.0
50°	1541.3	1608.1	1717.9	1908.8	2161.8	2424.2	2696.2	2968.1	3197.3	3359.5	3474.0
52.5°	1212.1	1274.2	1379.0	1579.6	1837.3	2099.7	2352.5	2619.8	2820.2	2977.7	3054.1
55°	940.1	997.4	1107.0	1274.2	1517.5	1775.2	2028.0	2257.2	2443.2	2557.8	2629.4
57.5°	715.7	758.8	835.2	1002.1	1221.7	1460.2	1675.1	1904.1	2047.3	2128.4	2175.9
60°	544.1	577.5	658.6	787.4	987.8	1193.0	1374.3	1546.2	1660.7	1727.5	1775.2
62.5°	410.3	448.6	505.8	615.6	768.2	935.3	1088.0	1216.8	1312.3	1355.3	1388.7
65°	281.5	310.1	353.2	439.0	567.8	687.1	806.5	902.0	964.0	1011.7	1030.8
67.5°	210.0	229.0	253.0	319.8	410.3	505.8	586.9	653.7	720.7	739.7	773.1
70°	157.5	171.9	195.6	243.4	295.8	362.6	429.6	467.7	515.4	548.8	558.4
72.5°	100.2	104.9	128.9	157.5	200.3	243.4	286.4	319.8	348.4	367.5	376.9
75°	57.4	85.8	85.8	114.5	143.2	162.2	190.9	214.7	229.0	243.4	243.4
77.5°	38.1	52.4	57.4	71.5	85.8	109.8	133.6	147.9	162.2	167.0	167.0
80°	33.4	38.1	38.1	52.4	62.1	81.1	95.5	100.2	109.8	114.5	124.1
82.5°	14.3	19.1	23.8	38.1	43.0	43.0	57.4	62.1	71.5	76.4	76.4
85°	4.7	9.6	9.6	14.3	23.8	28.7	33.4	38.1	43.0	43.0	47.7
87.5°	4.7	4.7	0.0	4.7	9.6	9.6	19.1	19.1	19.1	28.7	28.7
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: P248584

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0	9773.0
2.5°	9687.1	9691.8	9672.8	9668.1	9658.5	9663.2	9672.8
5°	9510.6	9515.3	9496.2	9477.2	9477.2	9472.3	9477.2
7.5°	9343.4	9348.3	9319.6	9310.0	9291.0	9295.9	9295.9
10°	9176.4	9176.4	9133.6	9128.7	9114.4	9109.7	9109.7
12.5°	9014.2	8999.9	8966.5	8947.4	8957.0	8928.4	8928.4
15°	8871.0	8847.3	8804.2	8789.9	8766.1	8756.5	8756.5
17.5°	8723.1	8704.1	8666.0	8637.3	8608.6	8603.9	8608.6
20°	8579.9	8560.9	8513.1	8494.1	8470.3	8470.3	8460.7
22.5°	8436.7	8417.7	8374.9	8360.5	8327.1	8327.1	8331.9
25°	8288.8	8274.5	8226.8	8217.3	8212.6	8193.4	8203.0
27.5°	8088.5	8078.9	8040.8	8026.4	8007.4	8002.7	8012.1
30°	7721.0	7706.7	7678.2	7663.8	7630.4	7635.2	7644.6
32.5°	7262.9	7243.9	7205.6	7191.3	7162.8	7153.1	7157.9
35°	6690.4	6676.0	6642.7	6642.7	6614.0	6604.4	6614.0
37.5°	6108.2	6122.3	6108.2	6122.3	6108.2	6103.3	6108.2
40°	5559.4	5611.9	5621.3	5673.9	5654.9	5683.4	5678.6
42.5°	5034.4	5120.2	5153.8	5196.6	5187.2	5206.3	5220.6
45°	4504.6	4576.3	4609.7	4638.4	4643.1	4652.7	4657.5
47.5°	4003.6	4060.9	4065.7	4099.0	4094.3	4094.3	4108.7
50°	3536.1	3574.2	3583.6	3607.6	3588.6	3578.9	3583.6
52.5°	3101.8	3139.9	3130.3	3139.9	3116.2	3106.5	3111.3
55°	2657.9	2677.0	2677.0	2677.0	2648.5	2648.5	2648.5
57.5°	2204.6	2209.5	2199.9	2204.6	2199.9	2171.2	2166.5
60°	1789.6	1789.6	1784.7	1789.6	1775.2	1760.9	1760.9
62.5°	1398.1	1407.7	1426.8	1407.7	1398.1	1407.7	1393.4
65°	1045.1	1064.2	1059.3	1068.9	1064.2	1064.2	1054.6
67.5°	787.4	792.2	796.9	801.8	801.8	801.8	801.8
70°	577.5	591.8	586.9	586.9	586.9	586.9	615.6
72.5°	386.6	405.6	400.9	410.3	410.3	419.9	410.3
75°	262.4	281.5	272.0	286.4	281.5	272.0	295.8
77.5°	176.6	186.2	190.9	195.6	190.9	186.2	190.9
80°	124.1	133.6	128.9	133.6	133.6	133.6	138.5
82.5°	76.4	90.7	85.8	90.7	85.8	90.7	90.7
85°	52.4	57.4	47.7	57.4	52.4	52.4	62.1
87.5°	33.4	28.7	28.7	33.4	28.7	33.4	28.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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