

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: P248739

Luminaire Tested: **LD8B200D010 ER8B200950 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248739
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: LD8B200D010 ER8B200950 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19770.0 lumens
Efficiency: N/A
Efficacy: 88.5 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

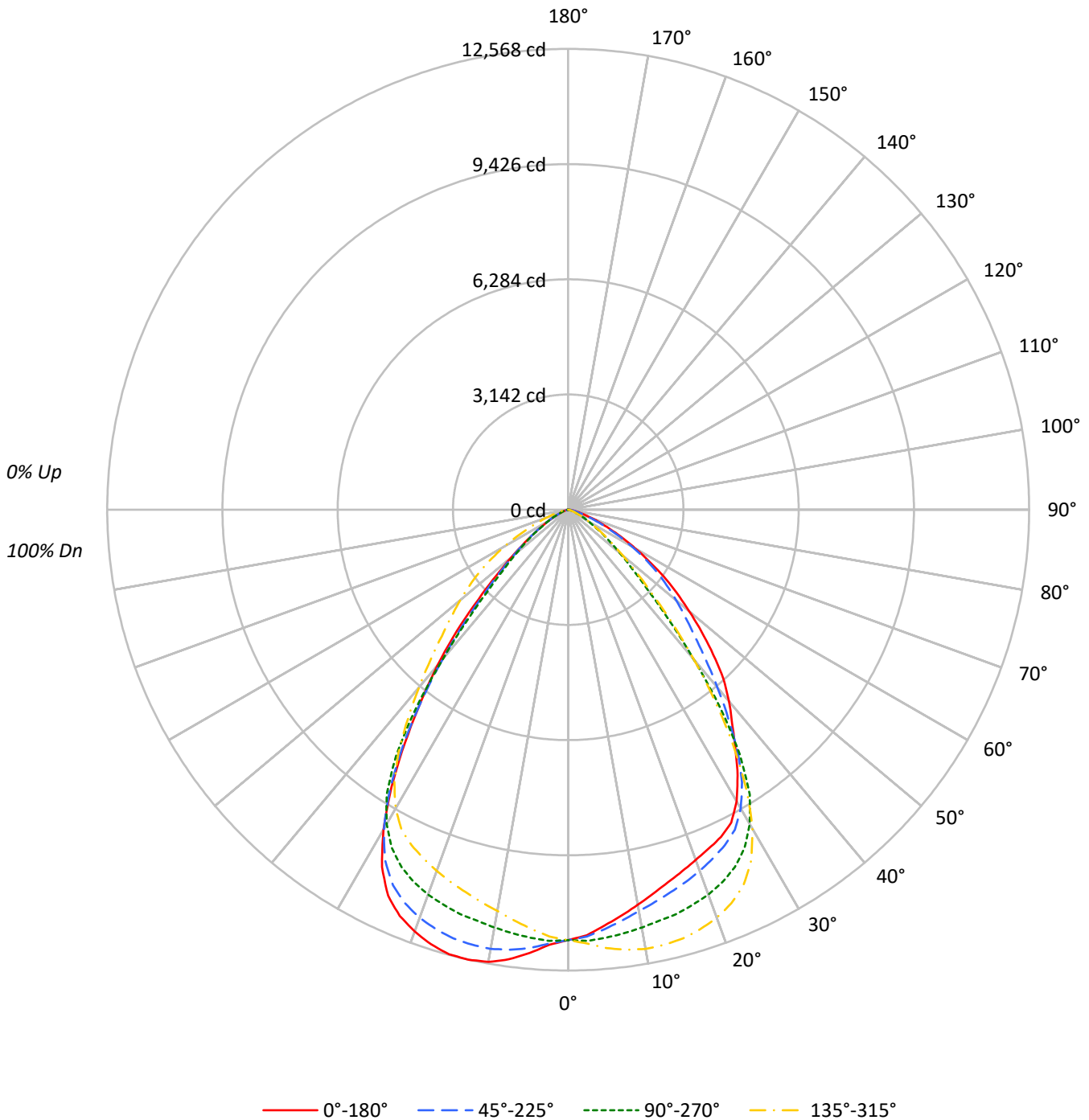
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	361920	361920	361920	361920
5°	352307	362770	375724	362770
10°	342560	362296	392086	362296
15°	335717	364446	400667	364446
20°	333433	366531	401699	366531
25°	335185	365793	395241	365793
30°	326895	352403	358738	352403
35°	299008	307418	291675	307418
40°	274520	213845	223313	213845
45°	243923	130457	150949	130457
50°	206465	87147	96776	87147
55°	170999	59466	62853	59466
60°	130419	39588	39933	39588
65°	92410	24662	22583	24662
70°	66655	16526	14994	16526
75°	42319	8209	6827	8209
80°	29531	6109	5061	6109
85°	26359	0	2017	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1117.1	5.7
10°-20°	3235.0	16.4
20°-30°	4898.5	24.8
30°-40°	4909.4	24.8
40°-50°	3082.9	15.6
50°-60°	1642.9	8.3
60°-70°	675.6	3.4
70°-80°	178.5	0.9
80°-90°	30.2	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°	9250.6	46.8
0°-40°	14160.0	71.6
0°-60°	18885.8	95.5
0°-90°	19770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19770.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	11737	11737	11737	11737	11737	
5°	11382	11720	12138	11720	11382	###
15°	10516	11416	12551	11416	10516	2974
25°	9851	10751	11616	10751	9851	4518
35°	7943	8166	7748	8166	7943	4976
45°	5593	2992	3461	2992	5593	4302
55°	3181	1106	1169	1106	3181	2836
65°	1266	338	310	338	1266	1314
75°	355	69	57	69	355	403
85°	74	0	6	0	74	82
90°	0	0	0	0	0	



TEST NUMBER: P248739

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8
2.5°	11616.5	11605.0	11599.3	11610.9	11616.5	11639.4	11633.7	11645.1	11645.1	11651.0	11662.3
5°	11381.6	11375.7	11381.6	11381.6	11404.5	11427.3	11421.7	11438.9	11450.2	11479.0	11490.3
7.5°	11163.9	11163.9	11158.0	11180.8	11192.4	11226.8	11220.9	11249.7	11266.9	11295.5	11335.6
10°	10940.2	10940.2	10945.9	10963.1	10969.0	11020.4	11020.4	11060.5	11083.4	11112.2	11163.9
12.5°	10722.5	10722.5	10756.9	10745.4	10768.3	10808.4	10825.6	10865.7	10900.1	10957.5	11009.1
15°	10516.1	10516.1	10527.7	10556.2	10573.4	10625.1	10653.6	10699.6	10739.7	10797.0	10871.6
17.5°	10338.5	10332.8	10338.5	10372.9	10407.4	10453.1	10476.0	10533.3	10573.4	10648.0	10716.8
20°	10160.9	10172.4	10172.4	10201.0	10223.8	10281.2	10304.0	10367.3	10413.0	10481.7	10562.1
22.5°	10006.1	10000.5	10000.5	10040.6	10057.8	10109.2	10132.1	10189.4	10241.1	10298.4	10372.9
25°	9851.4	9839.8	9862.9	9868.6	9879.9	9937.2	9954.5	9994.6	10046.2	10097.9	10172.4
27.5°	9622.1	9610.8	9616.4	9639.3	9656.5	9702.3	9713.9	9754.0	9794.1	9839.8	9903.0
30°	9180.7	9169.4	9163.8	9203.9	9221.1	9255.3	9272.5	9341.4	9352.7	9404.4	9450.1
32.5°	8596.2	8590.6	8602.1	8636.3	8653.5	8699.5	8722.4	8762.5	8791.1	8819.8	8865.6
35°	7943.0	7931.5	7943.0	7977.5	7977.5	8017.6	8034.8	8051.8	8046.1	8051.8	8040.5
37.5°	7335.6	7329.7	7335.6	7352.6	7335.6	7352.6	7335.6	7301.2	7238.2	7169.3	7100.5
40°	6819.7	6825.4	6791.2	6814.1	6750.9	6739.5	6676.6	6590.5	6464.5	6327.0	6132.1
42.5°	6269.7	6252.4	6229.6	6240.9	6189.5	6149.1	6046.0	5937.3	5776.7	5547.6	5312.4
45°	5593.4	5587.7	5576.1	5570.5	5536.0	5495.9	5409.8	5283.9	5106.3	4871.3	4590.4
47.5°	4934.3	4917.1	4917.1	4922.7	4882.6	4877.0	4808.1	4699.4	4544.6	4315.3	4023.1
50°	4303.8	4298.1	4309.7	4332.5	4303.8	4292.4	4246.7	4172.1	4034.6	3839.8	3564.5
52.5°	3736.5	3730.8	3742.4	3770.9	3759.3	3770.9	3725.1	3667.8	3576.1	3386.9	3146.3
55°	3180.7	3180.7	3180.7	3214.9	3214.9	3214.9	3192.0	3157.8	3071.7	2934.2	2710.8
57.5°	2601.8	2607.5	2641.9	2647.6	2641.9	2653.5	2647.6	2613.2	2556.1	2458.7	2286.7
60°	2114.7	2114.7	2132.0	2149.2	2143.3	2149.2	2149.2	2132.0	2074.6	1994.4	1856.9
62.5°	1673.4	1690.6	1679.0	1690.6	1713.5	1690.6	1679.0	1667.7	1627.6	1576.0	1461.3
65°	1266.5	1278.0	1278.0	1283.7	1272.1	1278.0	1255.2	1237.9	1215.1	1157.7	1083.2
67.5°	962.9	962.9	962.9	962.9	957.0	951.3	945.7	928.5	888.4	865.5	785.0
70°	739.3	704.8	704.8	704.8	704.8	710.7	693.5	670.6	659.1	619.0	561.6
72.5°	492.8	504.3	492.8	492.8	481.4	487.1	464.2	452.7	441.3	418.5	384.0
75°	355.2	326.7	338.0	343.9	326.7	338.0	315.1	292.3	292.3	275.0	257.8
77.5°	229.3	223.6	229.3	234.9	229.3	223.6	212.1	200.5	200.5	194.8	177.6
80°	166.3	160.4	160.4	160.4	154.7	160.4	149.1	149.1	137.5	131.9	120.3
82.5°	109.0	109.0	103.1	109.0	103.1	109.0	91.8	91.8	91.8	85.9	74.5
85°	74.5	63.0	63.0	68.9	57.3	68.9	63.0	57.3	51.7	51.7	45.8
87.5°	34.4	40.1	34.4	40.1	34.4	34.4	40.1	34.4	34.4	22.9	22.9
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: P248739

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8
2.5°	11679.5	11685.2	11685.2	11708.3	11719.6	11725.3	11725.3	11771.3	11754.0	11765.6	11776.9
5°	11513.4	11547.6	11559.2	11559.2	11622.2	11645.1	11667.9	11719.6	11725.3	11759.7	11799.8
7.5°	11352.8	11392.9	11416.0	11467.4	11507.5	11547.6	11616.5	11651.0	11685.2	11731.2	11782.6
10°	11198.1	11244.1	11289.8	11329.9	11392.9	11444.6	11490.3	11570.5	11610.9	11673.8	11742.5
12.5°	11049.2	11112.2	11152.3	11220.9	11289.8	11335.6	11404.5	11479.0	11542.0	11605.0	11685.2
15°	10917.3	10991.9	11037.7	11112.2	11186.7	11249.7	11324.3	11416.0	11461.8	11536.3	11610.9
17.5°	10773.9	10854.4	10911.7	10980.3	11072.1	11140.7	11204.0	11295.5	11352.8	11433.0	11519.1
20°	10625.1	10705.3	10773.9	10842.8	10934.6	11003.2	11077.8	11169.5	11232.5	11312.7	11381.6
22.5°	10447.5	10522.0	10596.3	10676.5	10768.3	10825.6	10911.7	10991.9	11060.5	11135.1	11204.0
25°	10218.2	10309.9	10367.3	10441.6	10516.1	10579.1	10670.8	10751.0	10808.4	10877.2	10940.2
27.5°	9948.8	10017.7	10063.4	10126.4	10201.0	10258.3	10326.9	10407.4	10464.7	10527.7	10573.4
30°	9490.2	9553.4	9593.5	9639.3	9713.9	9765.5	9822.8	9897.1	9937.2	9983.2	10023.3
32.5°	8888.5	8940.1	8963.0	8997.5	9049.1	9100.5	9146.5	9209.5	9226.7	9255.3	9255.3
35°	8017.6	8028.9	8023.2	8034.8	8057.7	8086.2	8126.3	8166.4	8189.3	8189.3	8172.3
37.5°	6997.4	6928.7	6854.2	6796.9	6779.6	6768.1	6791.2	6808.2	6831.3	6842.6	6814.1
40°	5937.3	5782.5	5616.2	5467.2	5364.1	5318.3	5301.1	5312.4	5312.4	5352.5	5352.5
42.5°	5026.1	4785.2	4538.9	4315.3	4166.2	4051.8	4000.2	4000.2	4005.8	4034.6	4051.8
45°	4269.6	3965.7	3679.1	3432.9	3226.5	3077.4	3008.7	2991.5	2985.9	2997.2	3037.3
47.5°	3690.7	3375.6	3077.4	2773.8	2556.1	2407.0	2344.0	2320.9	2298.0	2320.9	2326.8
50°	3238.0	2911.3	2596.2	2292.4	2063.1	1931.2	1851.0	1816.6	1810.9	1810.9	1822.5
52.5°	2825.2	2521.6	2206.5	1897.0	1656.2	1530.2	1455.7	1438.4	1415.6	1438.4	1438.4
55°	2435.5	2132.0	1822.5	1530.2	1329.5	1197.8	1129.0	1106.1	1094.5	1111.7	1111.7
57.5°	2011.6	1753.6	1467.2	1203.5	1003.0	911.2	859.6	831.0	825.1	836.7	825.1
60°	1650.5	1432.8	1186.3	945.7	790.9	693.5	653.4	641.9	630.3	641.9	641.9
62.5°	1306.6	1123.3	922.6	739.3	607.4	538.8	492.8	492.8	487.1	487.1	492.8
65°	968.6	825.1	682.0	527.2	424.1	372.5	338.0	338.0	332.4	338.0	332.4
67.5°	704.8	607.4	492.8	384.0	303.8	275.0	252.2	234.9	246.5	234.9	229.3
70°	515.9	435.4	355.2	292.3	234.9	206.4	189.2	183.3	172.0	172.0	172.0
72.5°	343.9	292.3	240.6	189.2	154.7	126.0	120.3	109.0	97.4	103.1	114.6
75°	229.3	194.8	172.0	137.5	103.1	103.1	68.9	68.9	57.3	68.9	51.7
77.5°	160.4	131.9	103.1	85.9	68.9	63.0	45.8	45.8	40.1	40.1	40.1
80°	114.6	97.4	74.5	63.0	45.8	45.8	40.1	34.4	28.5	28.5	34.4
82.5°	68.9	51.7	51.7	45.8	28.5	22.9	17.2	22.9	11.6	11.6	11.6
85°	40.1	34.4	28.5	17.2	11.6	11.6	5.7	0.0	5.7	5.7	0.0
87.5°	22.9	11.6	11.6	5.7	0.0	5.7	5.7	0.0	0.0	0.0	11.6
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: P248739

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8
2.5°	11805.7	11799.8	11811.4	11811.4	11845.8	11839.9	11857.1	11857.1	11845.8	11851.5	11874.3
5°	11845.8	11863.0	11897.2	11926.0	11977.4	12000.5	12029.1	12057.9	12063.5	12080.7	12098.0
7.5°	11845.8	11903.1	11943.2	11994.6	12063.5	12103.6	12166.6	12218.3	12241.2	12269.7	12304.1
10°	11822.7	11880.0	11954.5	12011.9	12098.0	12160.9	12223.9	12304.1	12338.6	12384.3	12430.3
12.5°	11776.9	11839.9	11920.1	11994.6	12092.1	12149.4	12229.6	12304.1	12355.8	12418.8	12470.4
15°	11708.3	11782.6	11857.1	11931.7	12034.7	12103.6	12178.2	12264.0	12315.7	12384.3	12430.3
17.5°	11599.3	11679.5	11748.4	11817.0	11914.4	11994.6	12063.5	12143.7	12195.4	12252.7	12315.7
20°	11467.4	11542.0	11616.5	11673.8	11771.3	11839.9	11914.4	11989.0	12029.1	12040.6	12138.1
22.5°	11301.4	11352.8	11410.1	11501.9	11559.2	11622.2	11691.1	11759.7	11799.8	11863.0	11897.2
25°	11026.1	11077.8	11140.7	11180.8	11249.7	11301.4	11370.0	11444.6	11467.4	11513.4	11547.6
27.5°	10642.3	10670.8	10699.6	10733.8	10773.9	10802.7	10842.8	10877.2	10900.1	10923.0	10945.9
30°	10034.7	10034.7	10034.7	10011.8	10029.0	10046.2	10051.9	10046.2	10046.2	10040.6	10040.6
32.5°	9232.4	9186.6	9135.0	9089.2	9072.0	9049.1	9037.6	9020.3	8991.8	8974.6	8980.2
35°	8149.2	8046.1	7983.1	7925.8	7880.1	7845.6	7828.4	7811.2	7805.5	7782.6	7759.5
37.5°	6796.9	6722.3	6676.6	6642.1	6602.0	6567.6	6573.2	6579.1	6596.1	6584.8	6590.5
40°	5364.1	5346.9	5364.1	5324.0	5312.4	5324.0	5352.5	5392.9	5415.7	5438.6	5478.7
42.5°	4080.4	4108.9	4149.3	4149.3	4166.2	4189.4	4223.6	4286.8	4321.0	4361.1	4407.1
45°	3071.7	3106.2	3157.8	3174.8	3186.4	3214.9	3255.2	3306.7	3329.6	3364.0	3404.1
47.5°	2366.9	2389.8	2418.3	2447.1	2475.6	2487.2	2527.3	2527.3	2556.1	2579.0	2590.3
50°	1845.3	1868.2	1891.1	1908.3	1919.9	1937.1	1948.4	1965.7	1971.3	1982.9	1988.5
52.5°	1444.1	1472.9	1472.9	1484.2	1501.4	1518.6	1513.0	1518.6	1524.3	1524.3	1541.5
55°	1129.0	1129.0	1146.2	1146.2	1157.7	1151.8	1157.7	1157.7	1157.7	1157.7	1163.4
57.5°	842.4	848.3	865.5	853.9	848.3	859.6	848.3	859.6	853.9	865.5	848.3
60°	647.5	647.5	653.4	653.4	659.1	659.1	659.1	653.4	653.4	647.5	647.5
62.5°	487.1	492.8	498.7	492.8	492.8	492.8	487.1	487.1	481.4	475.5	475.5
65°	326.7	321.0	332.4	321.0	326.7	326.7	321.0	326.7	309.5	315.1	309.5
67.5°	234.9	229.3	223.6	229.3	223.6	217.7	217.7	223.6	229.3	212.1	212.1
70°	154.7	160.4	154.7	160.4	166.3	166.3	160.4	154.7	160.4	149.1	154.7
72.5°	97.4	97.4	97.4	97.4	97.4	103.1	103.1	103.1	91.8	91.8	85.9
75°	45.8	63.0	51.7	45.8	63.0	63.0	57.3	57.3	51.7	51.7	51.7
77.5°	45.8	34.4	34.4	34.4	34.4	34.4	34.4	34.4	28.5	34.4	28.5
80°	22.9	22.9	22.9	17.2	22.9	22.9	28.5	22.9	22.9	17.2	28.5
82.5°	11.6	11.6	11.6	0.0	5.7	11.6	11.6	5.7	11.6	11.6	5.7
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: P248739

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8
2.5°	11868.7	11863.0	11868.7	11874.3	11868.7	11863.0	11868.7	11874.3	11851.5	11845.8	11857.1
5°	12120.8	12120.8	12132.2	12138.1	12132.2	12120.8	12120.8	12098.0	12080.7	12063.5	12057.9
7.5°	12338.6	12350.1	12361.5	12367.1	12361.5	12350.1	12338.6	12304.1	12269.7	12241.2	12218.3
10°	12470.4	12487.7	12510.5	12521.9	12510.5	12487.7	12470.4	12430.3	12384.3	12338.6	12304.1
12.5°	12527.8	12545.0	12573.5	12567.9	12573.5	12545.0	12527.8	12470.4	12418.8	12355.8	12304.1
15°	12487.7	12510.5	12539.1	12550.6	12539.1	12510.5	12487.7	12430.3	12384.3	12315.7	12264.0
17.5°	12361.5	12395.9	12413.1	12430.3	12413.1	12395.9	12361.5	12315.7	12252.7	12195.4	12143.7
20°	12189.5	12212.6	12235.5	12241.2	12235.5	12212.6	12189.5	12138.1	12040.6	12029.1	11989.0
22.5°	11943.2	11960.4	12011.9	11994.6	12011.9	11960.4	11943.2	11897.2	11863.0	11799.8	11759.7
25°	11587.7	11605.0	11610.9	11616.5	11610.9	11605.0	11587.7	11547.6	11513.4	11467.4	11444.6
27.5°	10974.7	10974.7	10986.0	10991.9	10986.0	10974.7	10974.7	10945.9	10923.0	10900.1	10877.2
30°	10046.2	10046.2	10046.2	10075.0	10046.2	10046.2	10046.2	10040.6	10040.6	10046.2	10046.2
32.5°	8974.6	8963.0	8951.7	8963.0	8951.7	8963.0	8974.6	8980.2	8974.6	8991.8	9020.3
35°	7759.5	7753.9	7771.1	7748.2	7771.1	7753.9	7759.5	7759.5	7782.6	7805.5	7811.2
37.5°	6596.1	6584.8	6607.7	6584.8	6607.7	6584.8	6596.1	6590.5	6584.8	6596.1	6579.1
40°	5490.3	5501.6	5501.6	5547.6	5501.6	5501.6	5490.3	5478.7	5438.6	5415.7	5392.9
42.5°	4430.0	4464.4	4452.9	4487.3	4452.9	4464.4	4430.0	4407.1	4361.1	4321.0	4286.8
45°	3427.0	3450.1	3450.1	3461.4	3450.1	3450.1	3427.0	3404.1	3364.0	3329.6	3306.7
47.5°	2630.4	2630.4	2630.4	2636.3	2630.4	2630.4	2630.4	2590.3	2579.0	2556.1	2527.3
50°	2000.1	2005.8	2011.6	2017.3	2011.6	2005.8	2000.1	1988.5	1982.9	1971.3	1965.7
52.5°	1535.9	1541.5	1530.2	1541.5	1530.2	1541.5	1535.9	1541.5	1524.3	1524.3	1518.6
55°	1163.4	1157.7	1163.4	1169.1	1163.4	1157.7	1163.4	1163.4	1157.7	1157.7	1157.7
57.5°	853.9	842.4	842.4	842.4	842.4	842.4	853.9	848.3	865.5	853.9	859.6
60°	636.2	641.9	641.9	647.5	641.9	641.9	636.2	647.5	647.5	653.4	653.4
62.5°	469.9	487.1	475.5	487.1	475.5	487.1	469.9	475.5	475.5	481.4	487.1
65°	303.8	303.8	303.8	309.5	303.8	303.8	303.8	309.5	315.1	309.5	326.7
67.5°	206.4	212.1	223.6	217.7	223.6	212.1	206.4	212.1	212.1	229.3	223.6
70°	166.3	149.1	149.1	166.3	149.1	149.1	166.3	154.7	149.1	160.4	154.7
72.5°	97.4	85.9	97.4	97.4	97.4	85.9	97.4	85.9	91.8	91.8	103.1
75°	51.7	45.8	40.1	57.3	40.1	45.8	51.7	51.7	51.7	51.7	57.3
77.5°	34.4	28.5	40.1	40.1	40.1	28.5	34.4	28.5	34.4	28.5	34.4
80°	17.2	22.9	17.2	28.5	17.2	22.9	17.2	28.5	17.2	22.9	22.9
82.5°	5.7	11.6	11.6	11.6	11.6	11.6	5.7	5.7	11.6	11.6	5.7
85°	0.0	11.6	5.7	5.7	5.7	11.6	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	0.0	0.0	5.7	0.0	0.0	5.7	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: P248739

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8
2.5°	11857.1	11839.9	11845.8	11811.4	11811.4	11799.8	11805.7	11776.9	11765.6	11754.0	11771.3
5°	12029.1	12000.5	11977.4	11926.0	11897.2	11863.0	11845.8	11799.8	11759.7	11725.3	11719.6
7.5°	12166.6	12103.6	12063.5	11994.6	11943.2	11903.1	11845.8	11782.6	11731.2	11685.2	11651.0
10°	12223.9	12160.9	12098.0	12011.9	11954.5	11880.0	11822.7	11742.5	11673.8	11610.9	11570.5
12.5°	12229.6	12149.4	12092.1	11994.6	11920.1	11839.9	11776.9	11685.2	11605.0	11542.0	11479.0
15°	12178.2	12103.6	12034.7	11931.7	11857.1	11782.6	11708.3	11610.9	11536.3	11461.8	11416.0
17.5°	12063.5	11994.6	11914.4	11817.0	11748.4	11679.5	11599.3	11519.1	11433.0	11352.8	11295.5
20°	11914.4	11839.9	11771.3	11673.8	11616.5	11542.0	11467.4	11381.6	11312.7	11232.5	11169.5
22.5°	11691.1	11622.2	11559.2	11501.9	11410.1	11352.8	11301.4	11204.0	11135.1	11060.5	10991.9
25°	11370.0	11301.4	11249.7	11180.8	11140.7	11077.8	11026.1	10940.2	10877.2	10808.4	10751.0
27.5°	10842.8	10802.7	10773.9	10733.8	10699.6	10670.8	10642.3	10573.4	10527.7	10464.7	10407.4
30°	10051.9	10046.2	10029.0	10011.8	10034.7	10034.7	10034.7	10023.3	9983.2	9937.2	9897.1
32.5°	9037.6	9049.1	9072.0	9089.2	9135.0	9186.6	9232.4	9255.3	9255.3	9226.7	9209.5
35°	7828.4	7845.6	7880.1	7925.8	7983.1	8046.1	8149.2	8172.3	8189.3	8189.3	8166.4
37.5°	6573.2	6567.6	6602.0	6642.1	6676.6	6722.3	6796.9	6814.1	6842.6	6831.3	6808.2
40°	5352.5	5324.0	5312.4	5324.0	5364.1	5346.9	5364.1	5352.5	5352.5	5312.4	5312.4
42.5°	4223.6	4189.4	4166.2	4149.3	4149.3	4108.9	4080.4	4051.8	4034.6	4005.8	4000.2
45°	3255.2	3214.9	3186.4	3174.8	3157.8	3106.2	3071.7	3037.3	2997.2	2985.9	2991.5
47.5°	2527.3	2487.2	2475.6	2447.1	2418.3	2389.8	2366.9	2326.8	2320.9	2298.0	2320.9
50°	1948.4	1937.1	1919.9	1908.3	1891.1	1868.2	1845.3	1822.5	1810.9	1810.9	1816.6
52.5°	1513.0	1518.6	1501.4	1484.2	1472.9	1472.9	1444.1	1438.4	1438.4	1415.6	1438.4
55°	1157.7	1151.8	1157.7	1146.2	1146.2	1129.0	1129.0	1111.7	1111.7	1094.5	1106.1
57.5°	848.3	859.6	848.3	853.9	865.5	848.3	842.4	825.1	836.7	825.1	831.0
60°	659.1	659.1	659.1	653.4	653.4	647.5	647.5	641.9	641.9	630.3	641.9
62.5°	487.1	492.8	492.8	492.8	498.7	492.8	487.1	492.8	487.1	487.1	492.8
65°	321.0	326.7	326.7	321.0	332.4	321.0	326.7	332.4	338.0	332.4	338.0
67.5°	217.7	217.7	223.6	229.3	223.6	229.3	234.9	229.3	234.9	246.5	234.9
70°	160.4	166.3	166.3	160.4	154.7	160.4	154.7	172.0	172.0	172.0	183.3
72.5°	103.1	103.1	97.4	97.4	97.4	97.4	97.4	114.6	103.1	97.4	109.0
75°	57.3	63.0	63.0	45.8	51.7	63.0	45.8	51.7	68.9	57.3	68.9
77.5°	34.4	34.4	34.4	34.4	34.4	34.4	45.8	40.1	40.1	40.1	45.8
80°	28.5	22.9	22.9	17.2	22.9	22.9	22.9	34.4	28.5	28.5	34.4
82.5°	11.6	11.6	5.7	0.0	11.6	11.6	11.6	11.6	11.6	11.6	22.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	5.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6	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: P248739

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8
2.5°	11725.3	11725.3	11719.6	11708.3	11685.2	11685.2	11679.5	11662.3	11651.0	11645.1	11645.1
5°	11667.9	11645.1	11622.2	11559.2	11559.2	11547.6	11513.4	11490.3	11479.0	11450.2	11438.9
7.5°	11616.5	11547.6	11507.5	11467.4	11416.0	11392.9	11352.8	11335.6	11295.5	11266.9	11249.7
10°	11490.3	11444.6	11392.9	11329.9	11289.8	11244.1	11198.1	11163.9	11112.2	11083.4	11060.5
12.5°	11404.5	11335.6	11289.8	11220.9	11152.3	11112.2	11049.2	11009.1	10957.5	10900.1	10865.7
15°	11324.3	11249.7	11186.7	11112.2	11037.7	10991.9	10917.3	10871.6	10797.0	10739.7	10699.6
17.5°	11204.0	11140.7	11072.1	10980.3	10911.7	10854.4	10773.9	10716.8	10648.0	10573.4	10533.3
20°	11077.8	11003.2	10934.6	10842.8	10773.9	10705.3	10625.1	10562.1	10481.7	10413.0	10367.3
22.5°	10911.7	10825.6	10768.3	10676.5	10596.3	10522.0	10447.5	10372.9	10298.4	10241.1	10189.4
25°	10670.8	10579.1	10516.1	10441.6	10367.3	10309.9	10218.2	10172.4	10097.9	10046.2	9994.6
27.5°	10326.9	10258.3	10201.0	10126.4	10063.4	10017.7	9948.8	9903.0	9839.8	9794.1	9754.0
30°	9822.8	9765.5	9713.9	9639.3	9593.5	9553.4	9490.2	9450.1	9404.4	9352.7	9341.4
32.5°	9146.5	9100.5	9049.1	8997.5	8963.0	8940.1	8888.5	8865.6	8819.8	8791.1	8762.5
35°	8126.3	8086.2	8057.7	8034.8	8023.2	8028.9	8017.6	8040.5	8051.8	8046.1	8051.8
37.5°	6791.2	6768.1	6779.6	6796.9	6854.2	6928.7	6997.4	7100.5	7169.3	7238.2	7301.2
40°	5301.1	5318.3	5364.1	5467.2	5616.2	5782.5	5937.3	6132.1	6327.0	6464.5	6590.5
42.5°	4000.2	4051.8	4166.2	4315.3	4538.9	4785.2	5026.1	5312.4	5547.6	5776.7	5937.3
45°	3008.7	3077.4	3226.5	3432.9	3679.1	3965.7	4269.6	4590.4	4871.3	5106.3	5283.9
47.5°	2344.0	2407.0	2556.1	2773.8	3077.4	3375.6	3690.7	4023.1	4315.3	4544.6	4699.4
50°	1851.0	1931.2	2063.1	2292.4	2596.2	2911.3	3238.0	3564.5	3839.8	4034.6	4172.1
52.5°	1455.7	1530.2	1656.2	1897.0	2206.5	2521.6	2825.2	3146.3	3386.9	3576.1	3667.8
55°	1129.0	1197.8	1329.5	1530.2	1822.5	2132.0	2435.5	2710.8	2934.2	3071.7	3157.8
57.5°	859.6	911.2	1003.0	1203.5	1467.2	1753.6	2011.6	2286.7	2458.7	2556.1	2613.2
60°	653.4	693.5	790.9	945.7	1186.3	1432.8	1650.5	1856.9	1994.4	2074.6	2132.0
62.5°	492.8	538.8	607.4	739.3	922.6	1123.3	1306.6	1461.3	1576.0	1627.6	1667.7
65°	338.0	372.5	424.1	527.2	682.0	825.1	968.6	1083.2	1157.7	1215.1	1237.9
67.5°	252.2	275.0	303.8	384.0	492.8	607.4	704.8	785.0	865.5	888.4	928.5
70°	189.2	206.4	234.9	292.3	355.2	435.4	515.9	561.6	619.0	659.1	670.6
72.5°	120.3	126.0	154.7	189.2	240.6	292.3	343.9	384.0	418.5	441.3	452.7
75°	68.9	103.1	103.1	137.5	172.0	194.8	229.3	257.8	275.0	292.3	292.3
77.5°	45.8	63.0	68.9	85.9	103.1	131.9	160.4	177.6	194.8	200.5	200.5
80°	40.1	45.8	45.8	63.0	74.5	97.4	114.6	120.3	131.9	137.5	149.1
82.5°	17.2	22.9	28.5	45.8	51.7	51.7	68.9	74.5	85.9	91.8	91.8
85°	5.7	11.6	11.6	17.2	28.5	34.4	40.1	45.8	51.7	51.7	57.3
87.5°	5.7	5.7	0.0	5.7	11.6	11.6	22.9	22.9	22.9	34.4	34.4
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: P248739

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8	11736.8
2.5°	11633.7	11639.4	11616.5	11610.9	11599.3	11605.0	11616.5
5°	11421.7	11427.3	11404.5	11381.6	11381.6	11375.7	11381.6
7.5°	11220.9	11226.8	11192.4	11180.8	11158.0	11163.9	11163.9
10°	11020.4	11020.4	10969.0	10963.1	10945.9	10940.2	10940.2
12.5°	10825.6	10808.4	10768.3	10745.4	10756.9	10722.5	10722.5
15°	10653.6	10625.1	10573.4	10556.2	10527.7	10516.1	10516.1
17.5°	10476.0	10453.1	10407.4	10372.9	10338.5	10332.8	10338.5
20°	10304.0	10281.2	10223.8	10201.0	10172.4	10172.4	10160.9
22.5°	10132.1	10109.2	10057.8	10040.6	10000.5	10000.5	10006.1
25°	9954.5	9937.2	9879.9	9868.6	9862.9	9839.8	9851.4
27.5°	9713.9	9702.3	9656.5	9639.3	9616.4	9610.8	9622.1
30°	9272.5	9255.3	9221.1	9203.9	9163.8	9169.4	9180.7
32.5°	8722.4	8699.5	8653.5	8636.3	8602.1	8590.6	8596.2
35°	8034.8	8017.6	7977.5	7977.5	7943.0	7931.5	7943.0
37.5°	7335.6	7352.6	7335.6	7352.6	7335.6	7329.7	7335.6
40°	6676.6	6739.5	6750.9	6814.1	6791.2	6825.4	6819.7
42.5°	6046.0	6149.1	6189.5	6240.9	6229.6	6252.4	6269.7
45°	5409.8	5495.9	5536.0	5570.5	5576.1	5587.7	5593.4
47.5°	4808.1	4877.0	4882.6	4922.7	4917.1	4917.1	4934.3
50°	4246.7	4292.4	4303.8	4332.5	4309.7	4298.1	4303.8
52.5°	3725.1	3770.9	3759.3	3770.9	3742.4	3730.8	3736.5
55°	3192.0	3214.9	3214.9	3214.9	3180.7	3180.7	3180.7
57.5°	2647.6	2653.5	2641.9	2647.6	2641.9	2607.5	2601.8
60°	2149.2	2149.2	2143.3	2149.2	2132.0	2114.7	2114.7
62.5°	1679.0	1690.6	1713.5	1690.6	1679.0	1690.6	1673.4
65°	1255.2	1278.0	1272.1	1283.7	1278.0	1278.0	1266.5
67.5°	945.7	951.3	957.0	962.9	962.9	962.9	962.9
70°	693.5	710.7	704.8	704.8	704.8	704.8	739.3
72.5°	464.2	487.1	481.4	492.8	492.8	504.3	492.8
75°	315.1	338.0	326.7	343.9	338.0	326.7	355.2
77.5°	212.1	223.6	229.3	234.9	229.3	223.6	229.3
80°	149.1	160.4	154.7	160.4	160.4	160.4	166.3
82.5°	91.8	109.0	103.1	109.0	103.1	109.0	109.0
85°	63.0	68.9	57.3	68.9	63.0	63.0	74.5
87.5°	40.1	34.4	34.4	40.1	34.4	40.1	34.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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