

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: P248631

Luminaire Tested: **LD8B200D010 ER8B200950 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248631
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 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19945.0 lumens
Efficiency: N/A
Efficacy: 89.3 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

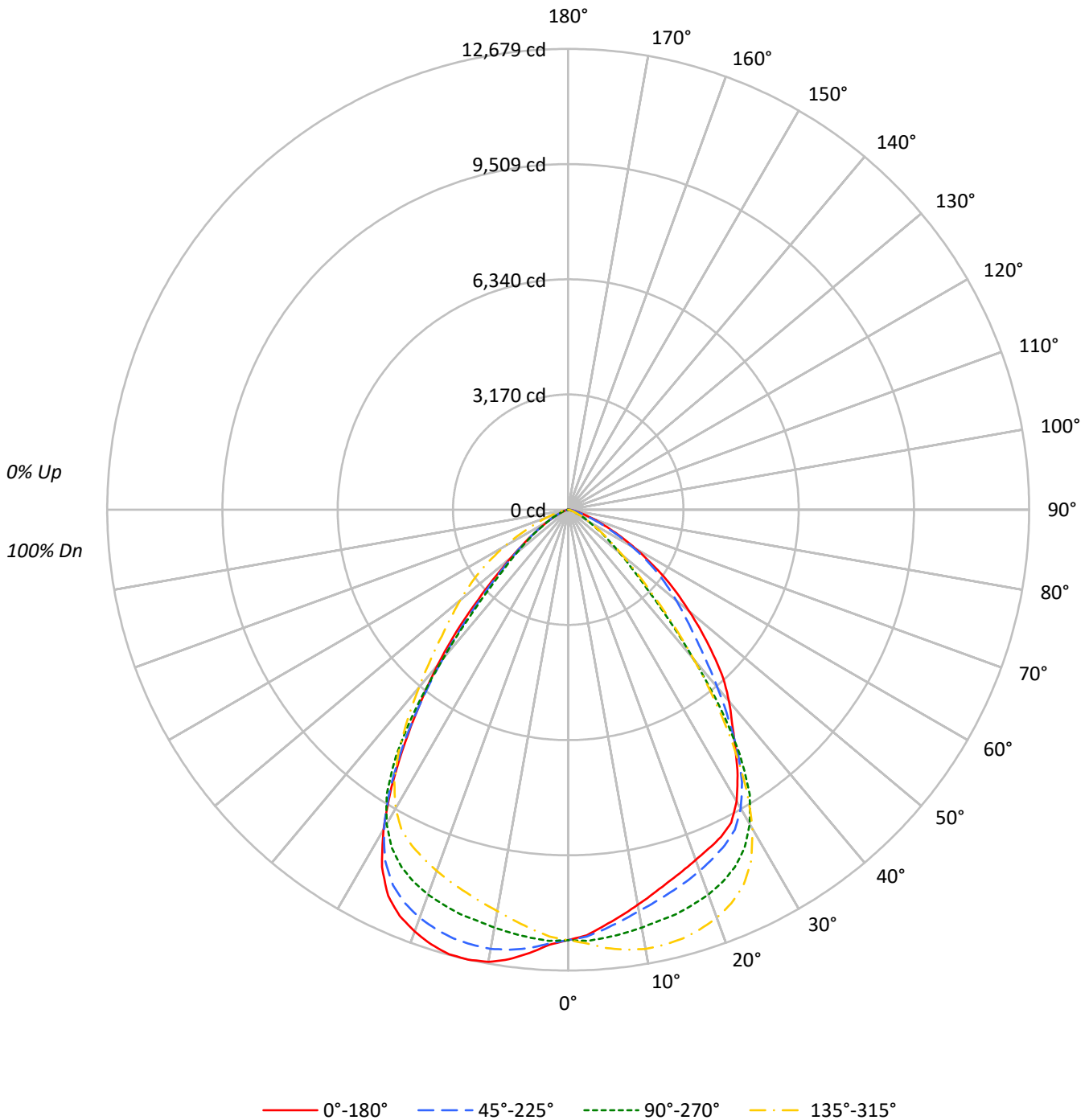
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	365124	365124	365124	365124
5°	355424	365980	379048	365980
10°	345594	365502	395555	365502
15°	338689	367673	404213	367673
20°	336383	369776	405253	369776
25°	338152	369032	398739	369032
30°	329789	355522	361914	355522
35°	301658	310139	294257	310139
40°	276951	215737	225289	215737
45°	246082	131612	152287	131612
50°	208293	87920	97634	87920
55°	172515	59992	63406	59992
60°	131579	39933	40285	39933
65°	93227	24881	22780	24881
70°	67241	16670	15129	16670
75°	42701	8280	6886	8280
80°	29798	6162	5114	6162
85°	26606	0	2017	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1127.0	5.7
10°-20°	3263.6	16.4
20°-30°	4941.8	24.8
30°-40°	4952.9	24.8
40°-50°	3110.2	15.6
50°-60°	1657.4	8.3
60°-70°	681.6	3.4
70°-80°	180.1	0.9
80°-90°	30.5	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°	9332.4	46.8
0°-40°	14285.3	71.6
0°-60°	19052.9	95.5
0°-90°	19945.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19945.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	11841	11841	11841	11841	11841	
5°	11482	11823	12246	11823	11482	###
15°	10609	11517	12662	11517	10609	3001
25°	9939	10846	11719	10846	9939	4558
35°	8013	8239	7817	8239	8013	5020
45°	5643	3018	3492	3018	5643	4340
55°	3209	1116	1179	1116	3209	2861
65°	1278	341	312	341	1278	1325
75°	358	70	58	70	358	406
85°	75	0	6	0	75	83
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°	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7
2.5°	11719.3	11707.7	11702.0	11713.6	11719.3	11742.4	11736.7	11748.1	11748.1	11754.1	11765.5
5°	11482.3	11476.4	11482.3	11482.3	11505.4	11528.5	11522.8	11540.2	11551.6	11580.6	11592.0
7.5°	11262.7	11262.7	11256.7	11279.8	11291.5	11326.2	11320.3	11349.3	11366.7	11395.5	11435.9
10°	11037.1	11037.1	11042.8	11060.2	11066.1	11118.0	11118.0	11158.4	11181.5	11210.6	11262.7
12.5°	10817.4	10817.4	10852.2	10840.5	10863.6	10904.0	10921.4	10961.9	10996.6	11054.4	11106.6
15°	10609.2	10609.2	10620.9	10649.6	10667.0	10719.1	10747.9	10794.3	10834.8	10892.6	10967.8
17.5°	10430.0	10424.3	10430.0	10464.7	10499.5	10545.7	10568.7	10626.6	10667.0	10742.2	10811.7
20°	10250.8	10262.5	10262.5	10291.3	10314.3	10372.2	10395.3	10459.0	10505.2	10574.4	10655.6
22.5°	10094.7	10089.0	10089.0	10129.4	10146.8	10198.7	10221.8	10279.6	10331.7	10389.5	10464.7
25°	9938.6	9926.9	9950.2	9955.9	9967.4	10025.2	10042.6	10083.0	10135.1	10187.3	10262.5
27.5°	9707.3	9695.8	9701.6	9724.6	9742.0	9788.2	9799.8	9840.3	9880.7	9926.9	9990.7
30°	9262.0	9250.6	9244.9	9285.3	9302.7	9337.2	9354.6	9424.1	9435.5	9487.6	9533.8
32.5°	8672.3	8666.6	8678.3	8712.8	8730.1	8776.5	8799.6	8840.1	8868.9	8897.9	8944.1
35°	8013.4	8001.7	8013.4	8048.1	8048.1	8088.6	8105.9	8123.1	8117.3	8123.1	8111.6
37.5°	7400.6	7394.6	7400.6	7417.7	7400.6	7417.7	7400.6	7365.8	7302.3	7232.8	7163.3
40°	6880.1	6885.8	6851.3	6874.4	6810.6	6799.2	6735.7	6648.8	6521.7	6383.0	6186.4
42.5°	6325.2	6307.8	6284.7	6296.1	6244.2	6203.5	6099.6	5989.8	5827.8	5596.7	5359.4
45°	5642.9	5637.2	5625.5	5619.8	5585.0	5544.6	5457.7	5330.7	5151.5	4914.4	4631.0
47.5°	4978.0	4960.6	4960.6	4966.3	4925.9	4920.1	4850.7	4741.0	4584.8	4353.5	4058.7
50°	4341.9	4336.2	4347.8	4370.9	4341.9	4330.4	4284.3	4209.1	4070.3	3873.8	3596.0
52.5°	3769.5	3763.8	3775.5	3804.3	3792.6	3804.3	3758.1	3700.3	3607.7	3416.9	3174.1
55°	3208.9	3208.9	3208.9	3243.4	3243.4	3243.4	3220.3	3185.8	3098.9	2960.2	2734.8
57.5°	2624.9	2630.6	2665.3	2671.0	2665.3	2677.0	2671.0	2636.3	2578.7	2480.4	2306.9
60°	2133.5	2133.5	2150.8	2168.2	2162.2	2168.2	2168.2	2150.8	2093.0	2012.1	1873.3
62.5°	1688.2	1705.6	1693.9	1705.6	1728.7	1705.6	1693.9	1682.5	1642.0	1589.9	1474.3
65°	1277.7	1289.4	1289.4	1295.1	1283.4	1289.4	1266.3	1248.9	1225.8	1168.0	1092.8
67.5°	971.4	971.4	971.4	971.4	965.5	959.8	954.0	936.7	896.2	873.1	792.0
70°	745.8	711.1	711.1	711.1	711.1	717.0	699.6	676.6	664.9	624.4	566.6
72.5°	497.1	508.8	497.1	497.1	485.7	491.4	468.3	456.7	445.3	422.2	387.4
75°	358.4	329.6	341.0	347.0	329.6	341.0	317.9	294.9	294.9	277.5	260.1
77.5°	231.3	225.6	231.3	237.0	231.3	225.6	213.9	202.3	202.3	196.6	179.2
80°	167.8	161.8	161.8	161.8	156.1	161.8	150.4	150.4	138.7	133.0	121.4
82.5°	109.9	109.9	104.0	109.9	104.0	109.9	92.6	92.6	92.6	86.6	75.2
85°	75.2	63.5	63.5	69.5	57.8	69.5	63.5	57.8	52.1	52.1	46.2
87.5°	34.7	40.5	34.7	40.5	34.7	34.7	40.5	34.7	34.7	23.1	23.1
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°	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7
2.5°	11782.9	11788.6	11788.6	11811.9	11823.3	11829.1	11829.1	11875.5	11858.1	11869.7	11881.2
5°	11615.4	11649.9	11661.5	11661.5	11725.1	11748.1	11771.2	11823.3	11829.1	11863.8	11904.3
7.5°	11453.3	11493.7	11517.1	11568.9	11609.4	11649.9	11719.3	11754.1	11788.6	11835.0	11886.9
10°	11297.2	11343.6	11389.8	11430.2	11493.7	11545.9	11592.0	11672.9	11713.6	11777.2	11846.4
12.5°	11147.0	11210.6	11251.0	11320.3	11389.8	11435.9	11505.4	11580.6	11644.1	11707.7	11788.6
15°	11014.0	11089.2	11135.4	11210.6	11285.8	11349.3	11424.5	11517.1	11563.2	11638.4	11713.6
17.5°	10869.3	10950.4	11008.3	11077.5	11170.1	11239.4	11303.1	11395.5	11453.3	11534.2	11621.1
20°	10719.1	10800.0	10869.3	10938.8	11031.4	11100.6	11175.8	11268.4	11331.9	11412.8	11482.3
22.5°	10539.9	10615.1	10690.1	10771.0	10863.6	10921.4	11008.3	11089.2	11158.4	11233.6	11303.1
25°	10308.6	10401.2	10459.0	10534.0	10609.2	10672.7	10765.3	10846.2	10904.0	10973.5	11037.1
27.5°	10036.9	10106.3	10152.5	10216.1	10291.3	10349.1	10418.3	10499.5	10557.3	10620.9	10667.0
30°	9574.2	9638.0	9678.5	9724.6	9799.8	9852.0	9909.8	9984.7	10025.2	10071.6	10112.1
32.5°	8967.2	9019.3	9042.4	9077.1	9129.2	9181.1	9227.5	9291.0	9308.4	9337.2	9337.2
35°	8088.6	8100.0	8094.3	8105.9	8129.0	8157.8	8198.3	8238.7	8261.8	8261.8	8244.7
37.5°	7059.3	6990.1	6914.9	6857.0	6839.7	6828.0	6851.3	6868.5	6891.8	6903.2	6874.4
40°	5989.8	5833.7	5666.0	5515.6	5411.6	5365.4	5348.0	5359.4	5359.4	5399.9	5399.9
42.5°	5070.5	4827.6	4579.1	4353.5	4203.1	4087.7	4035.6	4035.6	4041.3	4070.3	4087.7
45°	4307.4	4000.8	3711.7	3463.3	3255.0	3104.6	3035.4	3018.0	3012.3	3023.7	3064.2
47.5°	3723.4	3405.4	3104.6	2798.4	2578.7	2428.3	2364.8	2341.4	2318.4	2341.4	2347.4
50°	3266.7	2937.1	2619.2	2312.6	2081.3	1948.3	1867.4	1832.7	1826.9	1826.9	1838.6
52.5°	2850.2	2544.0	2226.0	1913.8	1670.8	1543.7	1468.5	1451.2	1428.1	1451.2	1451.2
55°	2457.1	2150.8	1838.6	1543.7	1341.2	1208.4	1139.0	1115.9	1104.2	1121.6	1121.6
57.5°	2029.5	1769.1	1480.2	1214.2	1011.9	919.3	867.2	838.4	832.4	844.1	832.4
60°	1665.1	1445.5	1196.8	954.0	797.9	699.6	659.2	647.5	635.9	647.5	647.5
62.5°	1318.1	1133.2	930.7	745.8	612.8	543.5	497.1	497.1	491.4	491.4	497.1
65°	977.1	832.4	688.0	531.9	427.9	375.8	341.0	341.0	335.3	341.0	335.3
67.5°	711.1	612.8	497.1	387.4	306.5	277.5	254.4	237.0	248.7	237.0	231.3
70°	520.5	439.3	358.4	294.9	237.0	208.2	190.9	184.9	173.5	173.5	173.5
72.5°	347.0	294.9	242.7	190.9	156.1	127.1	121.4	109.9	98.3	104.0	115.7
75°	231.3	196.6	173.5	138.7	104.0	104.0	69.5	69.5	57.8	69.5	52.1
77.5°	161.8	133.0	104.0	86.6	69.5	63.5	46.2	46.2	40.5	40.5	40.5
80°	115.7	98.3	75.2	63.5	46.2	46.2	40.5	34.7	28.8	28.8	34.7
82.5°	69.5	52.1	52.1	46.2	28.8	23.1	17.4	23.1	11.7	11.7	11.7
85°	40.5	34.7	28.8	17.4	11.7	11.7	5.7	0.0	5.7	5.7	0.0
87.5°	23.1	11.7	11.7	5.7	0.0	5.7	5.7	0.0	0.0	0.0	11.7
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°	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7
2.5°	11910.2	11904.3	11915.9	11915.9	11950.7	11944.7	11962.1	11962.1	11950.7	11956.4	11979.5
5°	11950.7	11968.0	12002.5	12031.6	12083.5	12106.8	12135.6	12164.6	12170.3	12187.7	12205.1
7.5°	11950.7	12008.5	12048.9	12100.8	12170.3	12210.8	12274.3	12326.4	12349.5	12378.3	12413.0
10°	11927.3	11985.2	12060.4	12118.2	12205.1	12268.6	12332.1	12413.0	12447.8	12494.0	12540.4
12.5°	11881.2	11944.7	12025.6	12100.8	12199.1	12256.9	12337.8	12413.0	12465.2	12528.7	12580.8
15°	11811.9	11886.9	11962.1	12037.3	12141.3	12210.8	12286.0	12372.6	12424.7	12494.0	12540.4
17.5°	11702.0	11782.9	11852.4	11921.6	12019.9	12100.8	12170.3	12251.2	12303.3	12361.2	12424.7
20°	11568.9	11644.1	11719.3	11777.2	11875.5	11944.7	12019.9	12095.1	12135.6	12147.2	12245.5
22.5°	11401.4	11453.3	11511.1	11603.7	11661.5	11725.1	11794.5	11863.8	11904.3	11968.0	12002.5
25°	11123.7	11175.8	11239.4	11279.8	11349.3	11401.4	11470.7	11545.9	11568.9	11615.4	11649.9
27.5°	10736.5	10765.3	10794.3	10828.8	10869.3	10898.3	10938.8	10973.5	10996.6	11019.7	11042.8
30°	10123.5	10123.5	10123.5	10100.4	10117.8	10135.1	10140.9	10135.1	10135.1	10129.4	10129.4
32.5°	9314.1	9268.0	9215.8	9169.7	9152.3	9129.2	9117.6	9100.2	9071.4	9054.0	9059.7
35°	8221.3	8117.3	8053.8	7996.0	7949.8	7915.1	7897.7	7880.3	7874.6	7851.5	7828.2
37.5°	6857.0	6781.8	6735.7	6700.9	6660.5	6625.7	6631.4	6637.4	6654.5	6643.1	6648.8
40°	5411.6	5394.2	5411.6	5371.1	5359.4	5371.1	5399.9	5440.6	5463.7	5486.8	5527.2
42.5°	4116.5	4145.3	4186.0	4186.0	4203.1	4226.4	4261.0	4324.7	4359.2	4399.7	4446.1
45°	3098.9	3133.7	3185.8	3202.9	3214.6	3243.4	3284.1	3335.9	3359.0	3393.8	3434.2
47.5°	2387.8	2410.9	2439.7	2468.8	2497.6	2509.2	2549.7	2549.7	2578.7	2601.8	2613.2
50°	1861.7	1884.8	1907.9	1925.2	1936.9	1954.3	1965.7	1983.1	1988.8	2000.4	2006.1
52.5°	1456.9	1485.9	1485.9	1497.3	1514.7	1532.1	1526.4	1532.1	1537.8	1537.8	1555.2
55°	1139.0	1139.0	1156.3	1156.3	1168.0	1162.0	1168.0	1168.0	1168.0	1168.0	1173.7
57.5°	849.8	855.8	873.1	861.5	855.8	867.2	855.8	867.2	861.5	873.1	855.8
60°	653.2	653.2	659.2	659.2	664.9	664.9	664.9	659.2	659.2	653.2	653.2
62.5°	491.4	497.1	503.1	497.1	497.1	497.1	491.4	491.4	485.7	479.8	479.8
65°	329.6	323.9	335.3	323.9	329.6	329.6	323.9	329.6	312.2	317.9	312.2
67.5°	237.0	231.3	225.6	231.3	225.6	219.7	219.7	225.6	231.3	213.9	213.9
70°	156.1	161.8	156.1	161.8	167.8	167.8	161.8	156.1	161.8	150.4	156.1
72.5°	98.3	98.3	98.3	98.3	98.3	104.0	104.0	104.0	92.6	92.6	86.6
75°	46.2	63.5	52.1	46.2	63.5	63.5	57.8	57.8	52.1	52.1	52.1
77.5°	46.2	34.7	34.7	34.7	34.7	34.7	34.7	34.7	28.8	34.7	28.8
80°	23.1	23.1	23.1	17.4	23.1	23.1	28.8	23.1	23.1	17.4	28.8
82.5°	11.7	11.7	11.7	0.0	5.7	11.7	11.7	5.7	11.7	11.7	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: P248631

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7
2.5°	11973.7	11968.0	11973.7	11979.5	11973.7	11968.0	11973.7	11979.5	11956.4	11950.7	11962.1
5°	12228.1	12228.1	12239.6	12245.5	12239.6	12228.1	12228.1	12205.1	12187.7	12170.3	12164.6
7.5°	12447.8	12459.5	12470.9	12476.6	12470.9	12459.5	12447.8	12413.0	12378.3	12349.5	12326.4
10°	12580.8	12598.2	12621.3	12632.7	12621.3	12598.2	12580.8	12540.4	12494.0	12447.8	12413.0
12.5°	12638.6	12656.0	12684.8	12679.1	12684.8	12656.0	12638.6	12580.8	12528.7	12465.2	12413.0
15°	12598.2	12621.3	12650.1	12661.7	12650.1	12621.3	12598.2	12540.4	12494.0	12424.7	12372.6
17.5°	12470.9	12505.6	12523.0	12540.4	12523.0	12505.6	12470.9	12424.7	12361.2	12303.3	12251.2
20°	12297.4	12320.7	12343.8	12349.5	12343.8	12320.7	12297.4	12245.5	12147.2	12135.6	12095.1
22.5°	12048.9	12066.3	12118.2	12100.8	12118.2	12066.3	12048.9	12002.5	11968.0	11904.3	11863.8
25°	11690.3	11707.7	11713.6	11719.3	11713.6	11707.7	11690.3	11649.9	11615.4	11568.9	11545.9
27.5°	11071.8	11071.8	11083.2	11089.2	11083.2	11071.8	11071.8	11042.8	11019.7	10996.6	10973.5
30°	10135.1	10135.1	10135.1	10164.2	10135.1	10135.1	10135.1	10129.4	10129.4	10135.1	10135.1
32.5°	9054.0	9042.4	9030.9	9042.4	9030.9	9042.4	9054.0	9059.7	9054.0	9071.4	9100.2
35°	7828.2	7822.5	7839.9	7816.8	7839.9	7822.5	7828.2	7828.2	7851.5	7874.6	7880.3
37.5°	6654.5	6643.1	6666.2	6643.1	6666.2	6643.1	6654.5	6648.8	6643.1	6654.5	6637.4
40°	5538.9	5550.3	5550.3	5596.7	5550.3	5550.3	5538.9	5527.2	5486.8	5463.7	5440.6
42.5°	4469.2	4503.9	4492.3	4527.0	4492.3	4503.9	4469.2	4446.1	4399.7	4359.2	4324.7
45°	3457.3	3480.6	3480.6	3492.1	3480.6	3480.6	3457.3	3434.2	3393.8	3359.0	3335.9
47.5°	2653.7	2653.7	2653.7	2659.6	2653.7	2653.7	2653.7	2613.2	2601.8	2578.7	2549.7
50°	2017.8	2023.5	2029.5	2035.2	2029.5	2023.5	2017.8	2006.1	2000.4	1988.8	1983.1
52.5°	1549.5	1555.2	1543.7	1555.2	1543.7	1555.2	1549.5	1555.2	1537.8	1537.8	1532.1
55°	1173.7	1168.0	1173.7	1179.4	1173.7	1168.0	1173.7	1173.7	1168.0	1168.0	1168.0
57.5°	861.5	849.8	849.8	849.8	849.8	849.8	861.5	855.8	873.1	861.5	867.2
60°	641.8	647.5	647.5	653.2	647.5	647.5	641.8	653.2	653.2	659.2	659.2
62.5°	474.0	491.4	479.8	491.4	479.8	491.4	474.0	479.8	479.8	485.7	491.4
65°	306.5	306.5	306.5	312.2	306.5	306.5	306.5	312.2	317.9	312.2	329.6
67.5°	208.2	213.9	225.6	219.7	225.6	213.9	208.2	213.9	213.9	231.3	225.6
70°	167.8	150.4	150.4	167.8	150.4	150.4	167.8	156.1	150.4	161.8	156.1
72.5°	98.3	86.6	98.3	98.3	98.3	86.6	98.3	86.6	92.6	92.6	104.0
75°	52.1	46.2	40.5	57.8	40.5	46.2	52.1	52.1	52.1	52.1	57.8
77.5°	34.7	28.8	40.5	40.5	40.5	28.8	34.7	28.8	34.7	28.8	34.7
80°	17.4	23.1	17.4	28.8	17.4	23.1	17.4	28.8	17.4	23.1	23.1
82.5°	5.7	11.7	11.7	11.7	11.7	11.7	5.7	5.7	11.7	11.7	5.7
85°	0.0	11.7	5.7	5.7	5.7	11.7	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: P248631

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7
2.5°	11962.1	11944.7	11950.7	11915.9	11915.9	11904.3	11910.2	11881.2	11869.7	11858.1	11875.5
5°	12135.6	12106.8	12083.5	12031.6	12002.5	11968.0	11950.7	11904.3	11863.8	11829.1	11823.3
7.5°	12274.3	12210.8	12170.3	12100.8	12048.9	12008.5	11950.7	11886.9	11835.0	11788.6	11754.1
10°	12332.1	12268.6	12205.1	12118.2	12060.4	11985.2	11927.3	11846.4	11777.2	11713.6	11672.9
12.5°	12337.8	12256.9	12199.1	12100.8	12025.6	11944.7	11881.2	11788.6	11707.7	11644.1	11580.6
15°	12286.0	12210.8	12141.3	12037.3	11962.1	11886.9	11811.9	11713.6	11638.4	11563.2	11517.1
17.5°	12170.3	12100.8	12019.9	11921.6	11852.4	11782.9	11702.0	11621.1	11534.2	11453.3	11395.5
20°	12019.9	11944.7	11875.5	11777.2	11719.3	11644.1	11568.9	11482.3	11412.8	11331.9	11268.4
22.5°	11794.5	11725.1	11661.5	11603.7	11511.1	11453.3	11401.4	11303.1	11233.6	11158.4	11089.2
25°	11470.7	11401.4	11349.3	11279.8	11239.4	11175.8	11123.7	11037.1	10973.5	10904.0	10846.2
27.5°	10938.8	10898.3	10869.3	10828.8	10794.3	10765.3	10736.5	10667.0	10620.9	10557.3	10499.5
30°	10140.9	10135.1	10117.8	10100.4	10123.5	10123.5	10123.5	10112.1	10071.6	10025.2	9984.7
32.5°	9117.6	9129.2	9152.3	9169.7	9215.8	9268.0	9314.1	9337.2	9337.2	9308.4	9291.0
35°	7897.7	7915.1	7949.8	7996.0	8053.8	8117.3	8221.3	8244.7	8261.8	8261.8	8238.7
37.5°	6631.4	6625.7	6660.5	6700.9	6735.7	6781.8	6857.0	6874.4	6903.2	6891.8	6868.5
40°	5399.9	5371.1	5359.4	5371.1	5411.6	5394.2	5411.6	5399.9	5399.9	5359.4	5359.4
42.5°	4261.0	4226.4	4203.1	4186.0	4186.0	4145.3	4116.5	4087.7	4070.3	4041.3	4035.6
45°	3284.1	3243.4	3214.6	3202.9	3185.8	3133.7	3098.9	3064.2	3023.7	3012.3	3018.0
47.5°	2549.7	2509.2	2497.6	2468.8	2439.7	2410.9	2387.8	2347.4	2341.4	2318.4	2341.4
50°	1965.7	1954.3	1936.9	1925.2	1907.9	1884.8	1861.7	1838.6	1826.9	1826.9	1832.7
52.5°	1526.4	1532.1	1514.7	1497.3	1485.9	1485.9	1456.9	1451.2	1451.2	1428.1	1451.2
55°	1168.0	1162.0	1168.0	1156.3	1156.3	1139.0	1139.0	1121.6	1121.6	1104.2	1115.9
57.5°	855.8	867.2	855.8	861.5	873.1	855.8	849.8	832.4	844.1	832.4	838.4
60°	664.9	664.9	664.9	659.2	659.2	653.2	653.2	647.5	647.5	635.9	647.5
62.5°	491.4	497.1	497.1	497.1	503.1	497.1	491.4	497.1	491.4	491.4	497.1
65°	323.9	329.6	329.6	323.9	335.3	323.9	329.6	335.3	341.0	335.3	341.0
67.5°	219.7	219.7	225.6	231.3	225.6	231.3	237.0	231.3	237.0	248.7	237.0
70°	161.8	167.8	167.8	161.8	156.1	161.8	156.1	173.5	173.5	173.5	184.9
72.5°	104.0	104.0	98.3	98.3	98.3	98.3	98.3	115.7	104.0	98.3	109.9
75°	57.8	63.5	63.5	46.2	52.1	63.5	46.2	52.1	69.5	57.8	69.5
77.5°	34.7	34.7	34.7	34.7	34.7	34.7	46.2	40.5	40.5	40.5	46.2
80°	28.8	23.1	23.1	17.4	23.1	23.1	23.1	34.7	28.8	28.8	34.7
82.5°	11.7	11.7	5.7	0.0	11.7	11.7	11.7	11.7	11.7	11.7	23.1
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	11.7	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: P248631

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7
2.5°	11829.1	11829.1	11823.3	11811.9	11788.6	11788.6	11782.9	11765.5	11754.1	11748.1	11748.1
5°	11771.2	11748.1	11725.1	11661.5	11661.5	11649.9	11615.4	11592.0	11580.6	11551.6	11540.2
7.5°	11719.3	11649.9	11609.4	11568.9	11517.1	11493.7	11453.3	11435.9	11395.5	11366.7	11349.3
10°	11592.0	11545.9	11493.7	11430.2	11389.8	11343.6	11297.2	11262.7	11210.6	11181.5	11158.4
12.5°	11505.4	11435.9	11389.8	11320.3	11251.0	11210.6	11147.0	11106.6	11054.4	10996.6	10961.9
15°	11424.5	11349.3	11285.8	11210.6	11135.4	11089.2	11014.0	10967.8	10892.6	10834.8	10794.3
17.5°	11303.1	11239.4	11170.1	11077.5	11008.3	10950.4	10869.3	10811.7	10742.2	10667.0	10626.6
20°	11175.8	11100.6	11031.4	10938.8	10869.3	10800.0	10719.1	10655.6	10574.4	10505.2	10459.0
22.5°	11008.3	10921.4	10863.6	10771.0	10690.1	10615.1	10539.9	10464.7	10389.5	10331.7	10279.6
25°	10765.3	10672.7	10609.2	10534.0	10459.0	10401.2	10308.6	10262.5	10187.3	10135.1	10083.0
27.5°	10418.3	10349.1	10291.3	10216.1	10152.5	10106.3	10036.9	9990.7	9926.9	9880.7	9840.3
30°	9909.8	9852.0	9799.8	9724.6	9678.5	9638.0	9574.2	9533.8	9487.6	9435.5	9424.1
32.5°	9227.5	9181.1	9129.2	9077.1	9042.4	9019.3	8967.2	8944.1	8897.9	8868.9	8840.1
35°	8198.3	8157.8	8129.0	8105.9	8094.3	8100.0	8088.6	8111.6	8123.1	8117.3	8123.1
37.5°	6851.3	6828.0	6839.7	6857.0	6914.9	6990.1	7059.3	7163.3	7232.8	7302.3	7365.8
40°	5348.0	5365.4	5411.6	5515.6	5666.0	5833.7	5989.8	6186.4	6383.0	6521.7	6648.8
42.5°	4035.6	4087.7	4203.1	4353.5	4579.1	4827.6	5070.5	5359.4	5596.7	5827.8	5989.8
45°	3035.4	3104.6	3255.0	3463.3	3711.7	4000.8	4307.4	4631.0	4914.4	5151.5	5330.7
47.5°	2364.8	2428.3	2578.7	2798.4	3104.6	3405.4	3723.4	4058.7	4353.5	4584.8	4741.0
50°	1867.4	1948.3	2081.3	2312.6	2619.2	2937.1	3266.7	3596.0	3873.8	4070.3	4209.1
52.5°	1468.5	1543.7	1670.8	1913.8	2226.0	2544.0	2850.2	3174.1	3416.9	3607.7	3700.3
55°	1139.0	1208.4	1341.2	1543.7	1838.6	2150.8	2457.1	2734.8	2960.2	3098.9	3185.8
57.5°	867.2	919.3	1011.9	1214.2	1480.2	1769.1	2029.5	2306.9	2480.4	2578.7	2636.3
60°	659.2	699.6	797.9	954.0	1196.8	1445.5	1665.1	1873.3	2012.1	2093.0	2150.8
62.5°	497.1	543.5	612.8	745.8	930.7	1133.2	1318.1	1474.3	1589.9	1642.0	1682.5
65°	341.0	375.8	427.9	531.9	688.0	832.4	977.1	1092.8	1168.0	1225.8	1248.9
67.5°	254.4	277.5	306.5	387.4	497.1	612.8	711.1	792.0	873.1	896.2	936.7
70°	190.9	208.2	237.0	294.9	358.4	439.3	520.5	566.6	624.4	664.9	676.6
72.5°	121.4	127.1	156.1	190.9	242.7	294.9	347.0	387.4	422.2	445.3	456.7
75°	69.5	104.0	104.0	138.7	173.5	196.6	231.3	260.1	277.5	294.9	294.9
77.5°	46.2	63.5	69.5	86.6	104.0	133.0	161.8	179.2	196.6	202.3	202.3
80°	40.5	46.2	46.2	63.5	75.2	98.3	115.7	121.4	133.0	138.7	150.4
82.5°	17.4	23.1	28.8	46.2	52.1	52.1	69.5	75.2	86.6	92.6	92.6
85°	5.7	11.7	11.7	17.4	28.8	34.7	40.5	46.2	52.1	52.1	57.8
87.5°	5.7	5.7	0.0	5.7	11.7	11.7	23.1	23.1	23.1	34.7	34.7
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: P248631

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7	11840.7
2.5°	11736.7	11742.4	11719.3	11713.6	11702.0	11707.7	11719.3
5°	11522.8	11528.5	11505.4	11482.3	11482.3	11476.4	11482.3
7.5°	11320.3	11326.2	11291.5	11279.8	11256.7	11262.7	11262.7
10°	11118.0	11118.0	11066.1	11060.2	11042.8	11037.1	11037.1
12.5°	10921.4	10904.0	10863.6	10840.5	10852.2	10817.4	10817.4
15°	10747.9	10719.1	10667.0	10649.6	10620.9	10609.2	10609.2
17.5°	10568.7	10545.7	10499.5	10464.7	10430.0	10424.3	10430.0
20°	10395.3	10372.2	10314.3	10291.3	10262.5	10262.5	10250.8
22.5°	10221.8	10198.7	10146.8	10129.4	10089.0	10089.0	10094.7
25°	10042.6	10025.2	9967.4	9955.9	9950.2	9926.9	9938.6
27.5°	9799.8	9788.2	9742.0	9724.6	9701.6	9695.8	9707.3
30°	9354.6	9337.2	9302.7	9285.3	9244.9	9250.6	9262.0
32.5°	8799.6	8776.5	8730.1	8712.8	8678.3	8666.6	8672.3
35°	8105.9	8088.6	8048.1	8048.1	8013.4	8001.7	8013.4
37.5°	7400.6	7417.7	7400.6	7417.7	7400.6	7394.6	7400.6
40°	6735.7	6799.2	6810.6	6874.4	6851.3	6885.8	6880.1
42.5°	6099.6	6203.5	6244.2	6296.1	6284.7	6307.8	6325.2
45°	5457.7	5544.6	5585.0	5619.8	5625.5	5637.2	5642.9
47.5°	4850.7	4920.1	4925.9	4966.3	4960.6	4960.6	4978.0
50°	4284.3	4330.4	4341.9	4370.9	4347.8	4336.2	4341.9
52.5°	3758.1	3804.3	3792.6	3804.3	3775.5	3763.8	3769.5
55°	3220.3	3243.4	3243.4	3243.4	3208.9	3208.9	3208.9
57.5°	2671.0	2677.0	2665.3	2671.0	2665.3	2630.6	2624.9
60°	2168.2	2168.2	2162.2	2168.2	2150.8	2133.5	2133.5
62.5°	1693.9	1705.6	1728.7	1705.6	1693.9	1705.6	1688.2
65°	1266.3	1289.4	1283.4	1295.1	1289.4	1289.4	1277.7
67.5°	954.0	959.8	965.5	971.4	971.4	971.4	971.4
70°	699.6	717.0	711.1	711.1	711.1	711.1	745.8
72.5°	468.3	491.4	485.7	497.1	497.1	508.8	497.1
75°	317.9	341.0	329.6	347.0	341.0	329.6	358.4
77.5°	213.9	225.6	231.3	237.0	231.3	225.6	231.3
80°	150.4	161.8	156.1	161.8	161.8	161.8	167.8
82.5°	92.6	109.9	104.0	109.9	104.0	109.9	109.9
85°	63.5	69.5	57.8	69.5	63.5	63.5	75.2
87.5°	40.5	34.7	34.7	40.5	34.7	40.5	34.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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