

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: P248613

Luminaire Tested: **LD8B200D010 ER8B200935 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248613
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 ER8B200935 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18445.0 lumens
Efficiency: N/A
Efficacy: 82.6 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

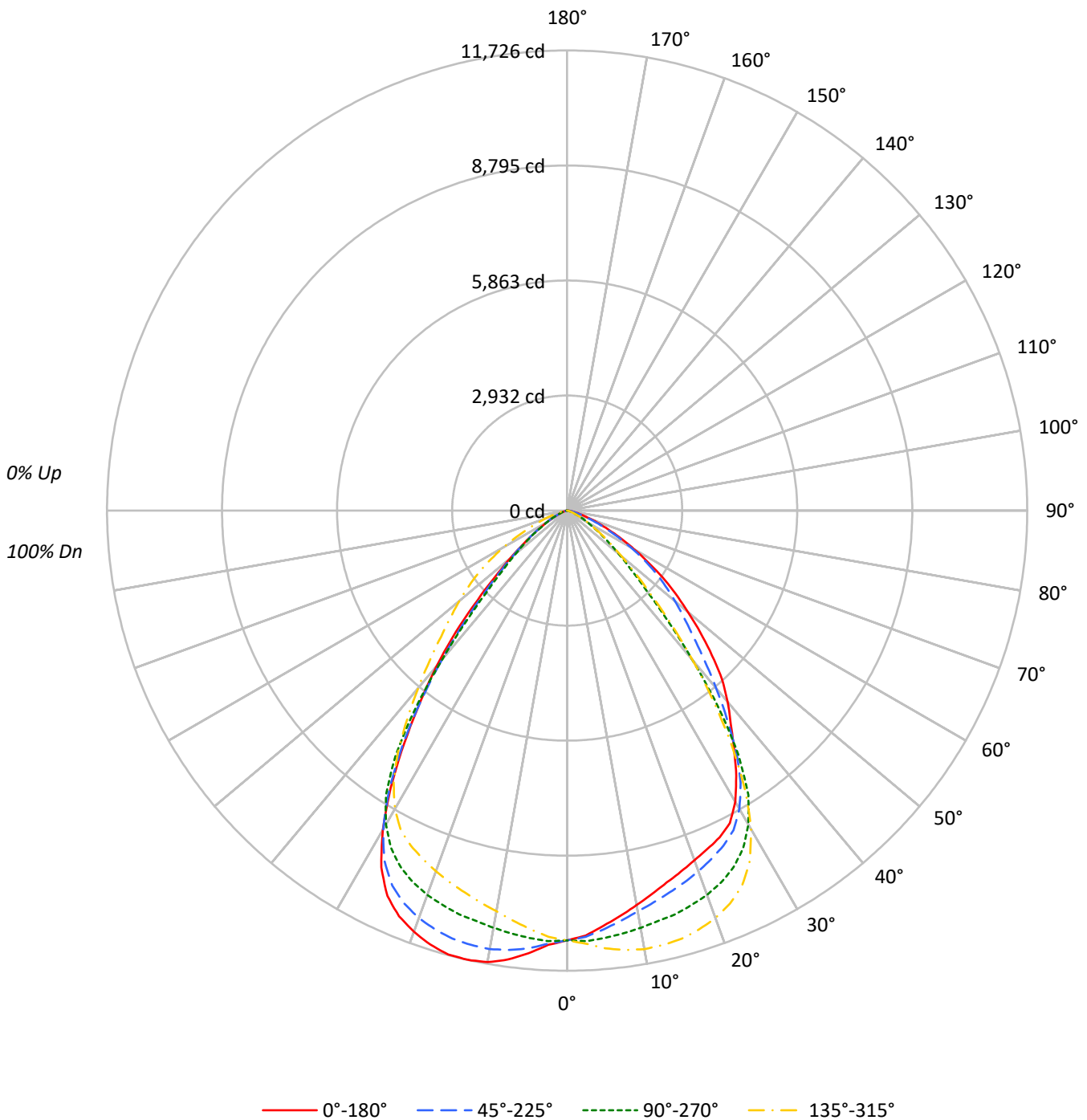
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	337664	337664	337664	337664
5°	328695	338455	350543	338455
10°	319602	338016	365806	338016
15°	313217	340020	373815	340020
20°	311086	341965	374774	341965
25°	312719	341279	368753	341279
30°	304986	328785	334696	328785
35°	278970	286815	272126	286815
40°	256124	199515	208346	199515
45°	227574	121713	140831	121713
50°	192625	81304	90290	81304
55°	159537	55476	58638	55476
60°	121680	36930	37256	36930
65°	86215	23013	21065	23013
70°	62183	15417	13993	15417
75°	39484	7661	6374	7661
80°	27560	5700	4724	5700
85°	24590	0	1875	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1042.3	5.7
10°-20°	3018.2	16.4
20°-30°	4570.2	24.8
30°-40°	4580.4	24.8
40°-50°	2876.3	15.6
50°-60°	1532.8	8.3
60°-70°	630.3	3.4
70°-80°	166.5	0.9
80°-90°	28.2	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°	8630.6	46.8
0°-40°	13211.0	71.6
0°-60°	17620.0	95.5
0°-90°	18445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18445.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	10950	10950	10950	10950	10950	
5°	10619	10934	11325	10934	10619	###
15°	9811	10651	11710	10651	9811	2775
25°	9191	10030	10838	10030	9191	4215
35°	7411	7619	7229	7619	7411	4643
45°	5218	2791	3229	2791	5218	4013
55°	2968	1032	1091	1032	2968	2646
65°	1182	315	289	315	1182	1226
75°	331	64	54	64	331	376
85°	70	0	5	0	70	76
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°	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2
2.5°	10838.0	10827.2	10821.9	10832.7	10838.0	10859.3	10854.0	10864.6	10864.6	10870.1	10880.7
5°	10618.8	10613.3	10618.8	10618.8	10640.1	10661.5	10656.2	10672.3	10682.8	10709.7	10720.2
7.5°	10415.6	10415.6	10410.1	10431.5	10442.3	10474.4	10468.9	10495.8	10511.8	10538.4	10575.9
10°	10207.0	10207.0	10212.3	10228.4	10233.9	10281.8	10281.8	10319.2	10340.6	10367.4	10415.6
12.5°	10003.9	10003.9	10036.0	10025.2	10046.6	10084.0	10100.1	10137.5	10169.6	10223.1	10271.3
15°	9811.3	9811.3	9822.1	9848.7	9864.8	9913.0	9939.6	9982.5	10019.9	10073.4	10143.0
17.5°	9645.6	9640.3	9645.6	9677.7	9709.9	9752.5	9773.9	9827.4	9864.8	9934.3	9998.6
20°	9479.9	9490.7	9490.7	9517.3	9538.6	9592.1	9613.5	9672.4	9715.1	9779.2	9854.2
22.5°	9335.5	9330.2	9330.2	9367.6	9383.7	9431.7	9453.0	9506.5	9554.7	9608.2	9677.7
25°	9191.1	9180.3	9201.9	9207.2	9217.8	9271.2	9287.3	9324.7	9372.9	9421.1	9490.7
27.5°	8977.2	8966.6	8971.9	8993.3	9009.3	9052.0	9062.8	9100.2	9137.6	9180.3	9239.3
30°	8565.4	8554.9	8549.6	8587.0	8603.1	8635.0	8651.1	8715.3	8725.9	8774.1	8816.8
32.5°	8020.1	8014.8	8025.6	8057.5	8073.6	8116.5	8137.8	8175.2	8201.9	8228.7	8271.4
35°	7410.7	7399.9	7410.7	7442.8	7442.8	7480.2	7496.3	7512.2	7506.9	7512.2	7501.6
37.5°	6844.0	6838.5	6844.0	6859.8	6844.0	6859.8	6844.0	6811.9	6753.1	6688.8	6624.6
40°	6362.7	6368.0	6336.1	6357.4	6298.4	6287.9	6229.1	6148.8	6031.2	5902.9	5721.2
42.5°	5849.5	5833.4	5812.0	5822.6	5774.6	5737.0	5640.8	5539.4	5389.5	5175.8	4956.4
45°	5218.5	5213.2	5202.4	5197.1	5165.0	5127.6	5047.3	4929.8	4764.0	4544.8	4282.7
47.5°	4603.6	4587.5	4587.5	4592.8	4555.4	4550.1	4485.9	4384.4	4240.0	4026.1	3753.4
50°	4015.3	4010.0	4020.8	4042.2	4015.3	4004.8	3962.1	3892.5	3764.2	3582.4	3325.6
52.5°	3486.0	3480.8	3491.5	3518.2	3507.4	3518.2	3475.5	3422.0	3336.4	3159.9	2935.4
55°	2967.5	2967.5	2967.5	2999.4	2999.4	2999.4	2978.1	2946.2	2865.9	2737.6	2529.1
57.5°	2427.5	2432.7	2464.9	2470.2	2464.9	2475.7	2470.2	2438.0	2384.8	2293.9	2133.4
60°	1973.0	1973.0	1989.1	2005.1	1999.6	2005.1	2005.1	1989.1	1935.6	1860.8	1732.5
62.5°	1561.2	1577.3	1566.5	1577.3	1598.6	1577.3	1566.5	1556.0	1518.5	1470.3	1363.4
65°	1181.6	1192.4	1192.4	1197.7	1186.9	1192.4	1171.0	1155.0	1133.6	1080.1	1010.6
67.5°	898.4	898.4	898.4	898.4	892.9	887.6	882.3	866.2	828.8	807.5	732.4
70°	689.7	657.6	657.6	657.6	657.6	663.1	647.0	625.7	614.9	577.5	524.0
72.5°	459.7	470.5	459.7	459.7	449.2	454.5	433.1	422.3	411.8	390.4	358.3
75°	331.4	304.8	315.4	320.9	304.8	315.4	294.0	272.7	272.7	256.6	240.5
77.5°	213.9	208.6	213.9	219.2	213.9	208.6	197.9	187.1	187.1	181.8	165.7
80°	155.2	149.7	149.7	149.7	144.4	149.7	139.1	139.1	128.3	123.0	112.2
82.5°	101.7	101.7	96.2	101.7	96.2	101.7	85.6	85.6	85.6	80.1	69.5
85°	69.5	58.8	58.8	64.3	53.5	64.3	58.8	53.5	48.2	48.2	42.7
87.5°	32.1	37.4	32.1	37.4	32.1	32.1	37.4	32.1	32.1	21.3	21.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2
2.5°	10896.7	10902.0	10902.0	10923.6	10934.1	10939.4	10939.4	10982.3	10966.3	10977.1	10987.6
5°	10741.8	10773.7	10784.5	10784.5	10843.3	10864.6	10885.9	10934.1	10939.4	10971.6	11009.0
7.5°	10591.9	10629.3	10650.9	10698.9	10736.3	10773.7	10838.0	10870.1	10902.0	10944.9	10992.9
10°	10447.6	10490.5	10533.2	10570.6	10629.3	10677.5	10720.2	10795.1	10832.7	10891.5	10955.5
12.5°	10308.7	10367.4	10404.9	10468.9	10533.2	10575.9	10640.1	10709.7	10768.4	10827.2	10902.0
15°	10185.7	10255.2	10297.9	10367.4	10437.0	10495.8	10565.3	10650.9	10693.6	10763.1	10832.7
17.5°	10051.9	10126.9	10180.4	10244.4	10330.0	10394.1	10453.1	10538.4	10591.9	10666.8	10747.1
20°	9913.0	9987.8	10051.9	10116.1	10201.7	10265.8	10335.3	10420.9	10479.7	10554.5	10618.8
22.5°	9747.3	9816.8	9886.1	9961.0	10046.6	10100.1	10180.4	10255.2	10319.2	10388.8	10453.1
25°	9533.3	9619.0	9672.4	9741.8	9811.3	9870.1	9955.7	10030.5	10084.0	10148.2	10207.0
27.5°	9282.0	9346.3	9389.0	9447.7	9517.3	9570.8	9634.8	9709.9	9763.3	9822.1	9864.8
30°	8854.2	8913.2	8950.6	8993.3	9062.8	9111.0	9164.5	9233.8	9271.2	9314.2	9351.6
32.5°	8292.8	8341.0	8362.3	8394.4	8442.6	8490.6	8533.5	8592.3	8608.4	8635.0	8635.0
35°	7480.2	7490.8	7485.5	7496.3	7517.7	7544.3	7581.7	7619.1	7640.5	7640.5	7624.6
37.5°	6528.4	6464.4	6394.8	6341.3	6325.3	6314.5	6336.1	6351.9	6373.5	6384.0	6357.4
40°	5539.4	5395.0	5239.8	5100.8	5004.6	4961.9	4945.8	4956.4	4956.4	4993.8	4993.8
42.5°	4689.2	4464.5	4234.7	4026.1	3887.0	3780.3	3732.1	3732.1	3737.4	3764.2	3780.3
45°	3983.4	3700.0	3432.6	3202.8	3010.2	2871.1	2807.1	2791.0	2785.8	2796.3	2833.7
47.5°	3443.3	3149.3	2871.1	2587.9	2384.8	2245.7	2186.9	2165.3	2144.0	2165.3	2170.9
50°	3021.0	2716.2	2422.2	2138.7	1924.8	1801.8	1727.0	1694.8	1689.5	1689.5	1700.3
52.5°	2635.9	2352.6	2058.6	1769.9	1545.2	1427.6	1358.1	1342.0	1320.7	1342.0	1342.0
55°	2272.3	1989.1	1700.3	1427.6	1240.4	1117.6	1053.3	1031.9	1021.2	1037.2	1037.2
57.5°	1876.8	1636.1	1368.9	1122.8	935.8	850.2	802.0	775.3	769.8	780.6	769.8
60°	1539.9	1336.8	1106.8	882.3	737.9	647.0	609.6	598.8	588.0	598.8	598.8
62.5°	1219.0	1048.0	860.7	689.7	566.7	502.7	459.7	459.7	454.5	454.5	459.7
65°	903.6	769.8	636.2	491.9	395.7	347.5	315.4	315.4	310.1	315.4	310.1
67.5°	657.6	566.7	459.7	358.3	283.5	256.6	235.3	219.2	230.0	219.2	213.9
70°	481.3	406.3	331.4	272.7	219.2	192.6	176.5	171.0	160.4	160.4	160.4
72.5°	320.9	272.7	224.5	176.5	144.4	117.5	112.2	101.7	90.9	96.2	107.0
75°	213.9	181.8	160.4	128.3	96.2	96.2	64.3	64.3	53.5	64.3	48.2
77.5°	149.7	123.0	96.2	80.1	64.3	58.8	42.7	42.7	37.4	37.4	37.4
80°	107.0	90.9	69.5	58.8	42.7	42.7	37.4	32.1	26.6	26.6	32.1
82.5°	64.3	48.2	48.2	42.7	26.6	21.3	16.1	21.3	10.8	10.8	10.8
85°	37.4	32.1	26.6	16.1	10.8	10.8	5.3	0.0	5.3	5.3	0.0
87.5°	21.3	10.8	10.8	5.3	0.0	5.3	5.3	0.0	0.0	0.0	10.8
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°	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2
2.5°	11014.5	11009.0	11019.8	11019.8	11051.9	11046.4	11062.5	11062.5	11051.9	11057.2	11078.5
5°	11051.9	11068.0	11099.9	11126.7	11174.7	11196.3	11222.9	11249.7	11255.0	11271.1	11287.2
7.5°	11051.9	11105.4	11142.8	11190.8	11255.0	11292.4	11351.2	11399.4	11420.7	11447.4	11479.5
10°	11030.3	11083.8	11153.3	11206.8	11287.2	11345.9	11404.7	11479.5	11511.6	11554.3	11597.2
12.5°	10987.6	11046.4	11121.2	11190.8	11281.7	11335.1	11410.0	11479.5	11527.7	11586.5	11634.7
15°	10923.6	10992.9	11062.5	11132.0	11228.2	11292.4	11362.0	11442.1	11490.3	11554.3	11597.2
17.5°	10821.9	10896.7	10961.0	11025.0	11115.9	11190.8	11255.0	11329.8	11378.0	11431.5	11490.3
20°	10698.9	10768.4	10838.0	10891.5	10982.3	11046.4	11115.9	11185.5	11222.9	11233.7	11324.6
22.5°	10543.9	10591.9	10645.4	10731.0	10784.5	10843.3	10907.5	10971.6	11009.0	11068.0	11099.9
25°	10287.1	10335.3	10394.1	10431.5	10495.8	10543.9	10608.0	10677.5	10698.9	10741.8	10773.7
27.5°	9929.0	9955.7	9982.5	10014.4	10051.9	10078.7	10116.1	10148.2	10169.6	10190.9	10212.3
30°	9362.1	9362.1	9362.1	9340.8	9356.8	9372.9	9378.2	9372.9	9372.9	9367.6	9367.6
32.5°	8613.6	8570.9	8522.7	8480.1	8464.0	8442.6	8431.9	8415.8	8389.2	8373.1	8378.4
35°	7603.0	7506.9	7448.1	7394.6	7351.9	7319.8	7303.7	7287.7	7282.4	7261.0	7239.5
37.5°	6341.3	6271.8	6229.1	6197.0	6159.5	6127.4	6132.7	6138.2	6154.0	6143.5	6148.8
40°	5004.6	4988.5	5004.6	4967.2	4956.4	4967.2	4993.8	5031.4	5052.8	5074.1	5111.5
42.5°	3806.9	3833.5	3871.2	3871.2	3887.0	3908.6	3940.5	3999.5	4031.4	4068.8	4111.7
45°	2865.9	2898.0	2946.2	2962.0	2972.8	2999.4	3037.1	3085.1	3106.4	3138.5	3175.9
47.5°	2208.3	2229.6	2256.2	2283.1	2309.7	2320.5	2357.9	2357.9	2384.8	2406.1	2416.7
50°	1721.7	1743.0	1764.4	1780.4	1791.2	1807.3	1817.8	1833.9	1839.2	1850.0	1855.3
52.5°	1347.3	1374.2	1374.2	1384.7	1400.8	1416.9	1411.6	1416.9	1422.1	1422.1	1438.2
55°	1053.3	1053.3	1069.4	1069.4	1080.1	1074.6	1080.1	1080.1	1080.1	1080.1	1085.4
57.5°	785.9	791.4	807.5	796.7	791.4	802.0	791.4	802.0	796.7	807.5	791.4
60°	604.1	604.1	609.6	609.6	614.9	614.9	614.9	609.6	609.6	604.1	604.1
62.5°	454.5	459.7	465.2	459.7	459.7	459.7	454.5	454.5	449.2	443.7	443.7
65°	304.8	299.5	310.1	299.5	304.8	304.8	299.5	304.8	288.7	294.0	288.7
67.5°	219.2	213.9	208.6	213.9	208.6	203.1	203.1	208.6	213.9	197.9	197.9
70°	144.4	149.7	144.4	149.7	155.2	155.2	149.7	144.4	149.7	139.1	144.4
72.5°	90.9	90.9	90.9	90.9	90.9	96.2	96.2	96.2	85.6	85.6	80.1
75°	42.7	58.8	48.2	42.7	58.8	58.8	53.5	53.5	48.2	48.2	48.2
77.5°	42.7	32.1	32.1	32.1	32.1	32.1	32.1	32.1	26.6	32.1	26.6
80°	21.3	21.3	21.3	16.1	21.3	21.3	26.6	21.3	21.3	16.1	26.6
82.5°	10.8	10.8	10.8	0.0	5.3	10.8	10.8	5.3	10.8	10.8	5.3
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: P248613

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2
2.5°	11073.2	11068.0	11073.2	11078.5	11073.2	11068.0	11073.2	11078.5	11057.2	11051.9	11062.5
5°	11308.5	11308.5	11319.1	11324.6	11319.1	11308.5	11308.5	11287.2	11271.1	11255.0	11249.7
7.5°	11511.6	11522.4	11533.0	11538.3	11533.0	11522.4	11511.6	11479.5	11447.4	11420.7	11399.4
10°	11634.7	11650.7	11672.1	11682.6	11672.1	11650.7	11634.7	11597.2	11554.3	11511.6	11479.5
12.5°	11688.1	11704.2	11730.8	11725.5	11730.8	11704.2	11688.1	11634.7	11586.5	11527.7	11479.5
15°	11650.7	11672.1	11698.7	11709.5	11698.7	11672.1	11650.7	11597.2	11554.3	11490.3	11442.1
17.5°	11533.0	11565.1	11581.2	11597.2	11581.2	11565.1	11533.0	11490.3	11431.5	11378.0	11329.8
20°	11372.5	11394.1	11415.5	11420.7	11415.5	11394.1	11372.5	11324.6	11233.7	11222.9	11185.5
22.5°	11142.8	11158.8	11206.8	11190.8	11206.8	11158.8	11142.8	11099.9	11068.0	11009.0	10971.6
25°	10811.1	10827.2	10832.7	10838.0	10832.7	10827.2	10811.1	10773.7	10741.8	10698.9	10677.5
27.5°	10239.1	10239.1	10249.7	10255.2	10249.7	10239.1	10239.1	10212.3	10190.9	10169.6	10148.2
30°	9372.9	9372.9	9372.9	9399.8	9372.9	9372.9	9372.9	9367.6	9367.6	9372.9	9372.9
32.5°	8373.1	8362.3	8351.7	8362.3	8351.7	8362.3	8373.1	8378.4	8373.1	8389.2	8415.8
35°	7239.5	7234.2	7250.3	7228.9	7250.3	7234.2	7239.5	7239.5	7261.0	7282.4	7287.7
37.5°	6154.0	6143.5	6164.8	6143.5	6164.8	6143.5	6154.0	6148.8	6143.5	6154.0	6138.2
40°	5122.3	5132.9	5132.9	5175.8	5132.9	5132.9	5122.3	5111.5	5074.1	5052.8	5031.4
42.5°	4133.1	4165.2	4154.4	4186.5	4154.4	4165.2	4133.1	4111.7	4068.8	4031.4	3999.5
45°	3197.3	3218.9	3218.9	3229.4	3218.9	3218.9	3197.3	3175.9	3138.5	3106.4	3085.1
47.5°	2454.1	2454.1	2454.1	2459.6	2454.1	2454.1	2454.1	2416.7	2406.1	2384.8	2357.9
50°	1866.0	1871.3	1876.8	1882.1	1876.8	1871.3	1866.0	1855.3	1850.0	1839.2	1833.9
52.5°	1432.9	1438.2	1427.6	1438.2	1427.6	1438.2	1432.9	1438.2	1422.1	1422.1	1416.9
55°	1085.4	1080.1	1085.4	1090.7	1085.4	1080.1	1085.4	1085.4	1080.1	1080.1	1080.1
57.5°	796.7	785.9	785.9	785.9	785.9	785.9	796.7	791.4	807.5	796.7	802.0
60°	593.6	598.8	598.8	604.1	598.8	598.8	593.6	604.1	604.1	609.6	609.6
62.5°	438.4	454.5	443.7	454.5	443.7	454.5	438.4	443.7	443.7	449.2	454.5
65°	283.5	283.5	283.5	288.7	283.5	283.5	283.5	288.7	294.0	288.7	304.8
67.5°	192.6	197.9	208.6	203.1	208.6	197.9	192.6	197.9	197.9	213.9	208.6
70°	155.2	139.1	139.1	155.2	139.1	139.1	155.2	144.4	139.1	149.7	144.4
72.5°	90.9	80.1	90.9	90.9	90.9	80.1	90.9	80.1	85.6	85.6	96.2
75°	48.2	42.7	37.4	53.5	37.4	42.7	48.2	48.2	48.2	48.2	53.5
77.5°	32.1	26.6	37.4	37.4	37.4	26.6	32.1	26.6	32.1	26.6	32.1
80°	16.1	21.3	16.1	26.6	16.1	21.3	16.1	26.6	16.1	21.3	21.3
82.5°	5.3	10.8	10.8	10.8	10.8	10.8	5.3	5.3	10.8	10.8	5.3
85°	0.0	10.8	5.3	5.3	5.3	10.8	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	0.0	0.0	5.3	0.0	0.0	5.3	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: P248613

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2
2.5°	11062.5	11046.4	11051.9	11019.8	11019.8	11009.0	11014.5	10987.6	10977.1	10966.3	10982.3
5°	11222.9	11196.3	11174.7	11126.7	11099.9	11068.0	11051.9	11009.0	10971.6	10939.4	10934.1
7.5°	11351.2	11292.4	11255.0	11190.8	11142.8	11105.4	11051.9	10992.9	10944.9	10902.0	10870.1
10°	11404.7	11345.9	11287.2	11206.8	11153.3	11083.8	11030.3	10955.5	10891.5	10832.7	10795.1
12.5°	11410.0	11335.1	11281.7	11190.8	11121.2	11046.4	10987.6	10902.0	10827.2	10768.4	10709.7
15°	11362.0	11292.4	11228.2	11132.0	11062.5	10992.9	10923.6	10832.7	10763.1	10693.6	10650.9
17.5°	11255.0	11190.8	11115.9	11025.0	10961.0	10896.7	10821.9	10747.1	10666.8	10591.9	10538.4
20°	11115.9	11046.4	10982.3	10891.5	10838.0	10768.4	10698.9	10618.8	10554.5	10479.7	10420.9
22.5°	10907.5	10843.3	10784.5	10731.0	10645.4	10591.9	10543.9	10453.1	10388.8	10319.2	10255.2
25°	10608.0	10543.9	10495.8	10431.5	10394.1	10335.3	10287.1	10207.0	10148.2	10084.0	10030.5
27.5°	10116.1	10078.7	10051.9	10014.4	9982.5	9955.7	9929.0	9864.8	9822.1	9763.3	9709.9
30°	9378.2	9372.9	9356.8	9340.8	9362.1	9362.1	9362.1	9351.6	9314.2	9271.2	9233.8
32.5°	8431.9	8442.6	8464.0	8480.1	8522.7	8570.9	8613.6	8635.0	8635.0	8608.4	8592.3
35°	7303.7	7319.8	7351.9	7394.6	7448.1	7506.9	7603.0	7624.6	7640.5	7640.5	7619.1
37.5°	6132.7	6127.4	6159.5	6197.0	6229.1	6271.8	6341.3	6357.4	6384.0	6373.5	6351.9
40°	4993.8	4967.2	4956.4	4967.2	5004.6	4988.5	5004.6	4993.8	4993.8	4956.4	4956.4
42.5°	3940.5	3908.6	3887.0	3871.2	3871.2	3833.5	3806.9	3780.3	3764.2	3737.4	3732.1
45°	3037.1	2999.4	2972.8	2962.0	2946.2	2898.0	2865.9	2833.7	2796.3	2785.8	2791.0
47.5°	2357.9	2320.5	2309.7	2283.1	2256.2	2229.6	2208.3	2170.9	2165.3	2144.0	2165.3
50°	1817.8	1807.3	1791.2	1780.4	1764.4	1743.0	1721.7	1700.3	1689.5	1689.5	1694.8
52.5°	1411.6	1416.9	1400.8	1384.7	1374.2	1374.2	1347.3	1342.0	1342.0	1320.7	1342.0
55°	1080.1	1074.6	1080.1	1069.4	1069.4	1053.3	1053.3	1037.2	1037.2	1021.2	1031.9
57.5°	791.4	802.0	791.4	796.7	807.5	791.4	785.9	769.8	780.6	769.8	775.3
60°	614.9	614.9	614.9	609.6	609.6	604.1	604.1	598.8	598.8	588.0	598.8
62.5°	454.5	459.7	459.7	459.7	465.2	459.7	454.5	459.7	454.5	454.5	459.7
65°	299.5	304.8	304.8	299.5	310.1	299.5	304.8	310.1	315.4	310.1	315.4
67.5°	203.1	203.1	208.6	213.9	208.6	213.9	219.2	213.9	219.2	230.0	219.2
70°	149.7	155.2	155.2	149.7	144.4	149.7	144.4	160.4	160.4	160.4	171.0
72.5°	96.2	96.2	90.9	90.9	90.9	90.9	90.9	107.0	96.2	90.9	101.7
75°	53.5	58.8	58.8	42.7	48.2	58.8	42.7	48.2	64.3	53.5	64.3
77.5°	32.1	32.1	32.1	32.1	32.1	32.1	42.7	37.4	37.4	37.4	42.7
80°	26.6	21.3	21.3	16.1	21.3	21.3	21.3	32.1	26.6	26.6	32.1
82.5°	10.8	10.8	5.3	0.0	10.8	10.8	10.8	10.8	10.8	10.8	21.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	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: P248613

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2
2.5°	10939.4	10939.4	10934.1	10923.6	10902.0	10902.0	10896.7	10880.7	10870.1	10864.6	10864.6
5°	10885.9	10864.6	10843.3	10784.5	10784.5	10773.7	10741.8	10720.2	10709.7	10682.8	10672.3
7.5°	10838.0	10773.7	10736.3	10698.9	10650.9	10629.3	10591.9	10575.9	10538.4	10511.8	10495.8
10°	10720.2	10677.5	10629.3	10570.6	10533.2	10490.5	10447.6	10415.6	10367.4	10340.6	10319.2
12.5°	10640.1	10575.9	10533.2	10468.9	10404.9	10367.4	10308.7	10271.3	10223.1	10169.6	10137.5
15°	10565.3	10495.8	10437.0	10367.4	10297.9	10255.2	10185.7	10143.0	10073.4	10019.9	9982.5
17.5°	10453.1	10394.1	10330.0	10244.4	10180.4	10126.9	10051.9	9998.6	9934.3	9864.8	9827.4
20°	10335.3	10265.8	10201.7	10116.1	10051.9	9987.8	9913.0	9854.2	9779.2	9715.1	9672.4
22.5°	10180.4	10100.1	10046.6	9961.0	9886.1	9816.8	9747.3	9677.7	9608.2	9554.7	9506.5
25°	9955.7	9870.1	9811.3	9741.8	9672.4	9619.0	9533.3	9490.7	9421.1	9372.9	9324.7
27.5°	9634.8	9570.8	9517.3	9447.7	9389.0	9346.3	9282.0	9239.3	9180.3	9137.6	9100.2
30°	9164.5	9111.0	9062.8	8993.3	8950.6	8913.2	8854.2	8816.8	8774.1	8725.9	8715.3
32.5°	8533.5	8490.6	8442.6	8394.4	8362.3	8341.0	8292.8	8271.4	8228.7	8201.9	8175.2
35°	7581.7	7544.3	7517.7	7496.3	7485.5	7490.8	7480.2	7501.6	7512.2	7506.9	7512.2
37.5°	6336.1	6314.5	6325.3	6341.3	6394.8	6464.4	6528.4	6624.6	6688.8	6753.1	6811.9
40°	4945.8	4961.9	5004.6	5100.8	5239.8	5395.0	5539.4	5721.2	5902.9	6031.2	6148.8
42.5°	3732.1	3780.3	3887.0	4026.1	4234.7	4464.5	4689.2	4956.4	5175.8	5389.5	5539.4
45°	2807.1	2871.1	3010.2	3202.8	3432.6	3700.0	3983.4	4282.7	4544.8	4764.0	4929.8
47.5°	2186.9	2245.7	2384.8	2587.9	2871.1	3149.3	3443.3	3753.4	4026.1	4240.0	4384.4
50°	1727.0	1801.8	1924.8	2138.7	2422.2	2716.2	3021.0	3325.6	3582.4	3764.2	3892.5
52.5°	1358.1	1427.6	1545.2	1769.9	2058.6	2352.6	2635.9	2935.4	3159.9	3336.4	3422.0
55°	1053.3	1117.6	1240.4	1427.6	1700.3	1989.1	2272.3	2529.1	2737.6	2865.9	2946.2
57.5°	802.0	850.2	935.8	1122.8	1368.9	1636.1	1876.8	2133.4	2293.9	2384.8	2438.0
60°	609.6	647.0	737.9	882.3	1106.8	1336.8	1539.9	1732.5	1860.8	1935.6	1989.1
62.5°	459.7	502.7	566.7	689.7	860.7	1048.0	1219.0	1363.4	1470.3	1518.5	1556.0
65°	315.4	347.5	395.7	491.9	636.2	769.8	903.6	1010.6	1080.1	1133.6	1155.0
67.5°	235.3	256.6	283.5	358.3	459.7	566.7	657.6	732.4	807.5	828.8	866.2
70°	176.5	192.6	219.2	272.7	331.4	406.3	481.3	524.0	577.5	614.9	625.7
72.5°	112.2	117.5	144.4	176.5	224.5	272.7	320.9	358.3	390.4	411.8	422.3
75°	64.3	96.2	96.2	128.3	160.4	181.8	213.9	240.5	256.6	272.7	272.7
77.5°	42.7	58.8	64.3	80.1	96.2	123.0	149.7	165.7	181.8	187.1	187.1
80°	37.4	42.7	42.7	58.8	69.5	90.9	107.0	112.2	123.0	128.3	139.1
82.5°	16.1	21.3	26.6	42.7	48.2	48.2	64.3	69.5	80.1	85.6	85.6
85°	5.3	10.8	10.8	16.1	26.6	32.1	37.4	42.7	48.2	48.2	53.5
87.5°	5.3	5.3	0.0	5.3	10.8	10.8	21.3	21.3	21.3	32.1	32.1
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: P248613

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2	10950.2
2.5°	10854.0	10859.3	10838.0	10832.7	10821.9	10827.2	10838.0
5°	10656.2	10661.5	10640.1	10618.8	10618.8	10613.3	10618.8
7.5°	10468.9	10474.4	10442.3	10431.5	10410.1	10415.6	10415.6
10°	10281.8	10281.8	10233.9	10228.4	10212.3	10207.0	10207.0
12.5°	10100.1	10084.0	10046.6	10025.2	10036.0	10003.9	10003.9
15°	9939.6	9913.0	9864.8	9848.7	9822.1	9811.3	9811.3
17.5°	9773.9	9752.5	9709.9	9677.7	9645.6	9640.3	9645.6
20°	9613.5	9592.1	9538.6	9517.3	9490.7	9490.7	9479.9
22.5°	9453.0	9431.7	9383.7	9367.6	9330.2	9330.2	9335.5
25°	9287.3	9271.2	9217.8	9207.2	9201.9	9180.3	9191.1
27.5°	9062.8	9052.0	9009.3	8993.3	8971.9	8966.6	8977.2
30°	8651.1	8635.0	8603.1	8587.0	8549.6	8554.9	8565.4
32.5°	8137.8	8116.5	8073.6	8057.5	8025.6	8014.8	8020.1
35°	7496.3	7480.2	7442.8	7442.8	7410.7	7399.9	7410.7
37.5°	6844.0	6859.8	6844.0	6859.8	6844.0	6838.5	6844.0
40°	6229.1	6287.9	6298.4	6357.4	6336.1	6368.0	6362.7
42.5°	5640.8	5737.0	5774.6	5822.6	5812.0	5833.4	5849.5
45°	5047.3	5127.6	5165.0	5197.1	5202.4	5213.2	5218.5
47.5°	4485.9	4550.1	4555.4	4592.8	4587.5	4587.5	4603.6
50°	3962.1	4004.8	4015.3	4042.2	4020.8	4010.0	4015.3
52.5°	3475.5	3518.2	3507.4	3518.2	3491.5	3480.8	3486.0
55°	2978.1	2999.4	2999.4	2999.4	2967.5	2967.5	2967.5
57.5°	2470.2	2475.7	2464.9	2470.2	2464.9	2432.7	2427.5
60°	2005.1	2005.1	1999.6	2005.1	1989.1	1973.0	1973.0
62.5°	1566.5	1577.3	1598.6	1577.3	1566.5	1577.3	1561.2
65°	1171.0	1192.4	1186.9	1197.7	1192.4	1192.4	1181.6
67.5°	882.3	887.6	892.9	898.4	898.4	898.4	898.4
70°	647.0	663.1	657.6	657.6	657.6	657.6	689.7
72.5°	433.1	454.5	449.2	459.7	459.7	470.5	459.7
75°	294.0	315.4	304.8	320.9	315.4	304.8	331.4
77.5°	197.9	208.6	213.9	219.2	213.9	208.6	213.9
80°	139.1	149.7	144.4	149.7	149.7	149.7	155.2
82.5°	85.6	101.7	96.2	101.7	96.2	101.7	101.7
85°	58.8	64.3	53.5	64.3	58.8	58.8	69.5
87.5°	37.4	32.1	32.1	37.4	32.1	37.4	32.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)