

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: P249734

Luminaire Tested: **LD8B200D010 ER8B200850 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200850 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23158.0 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

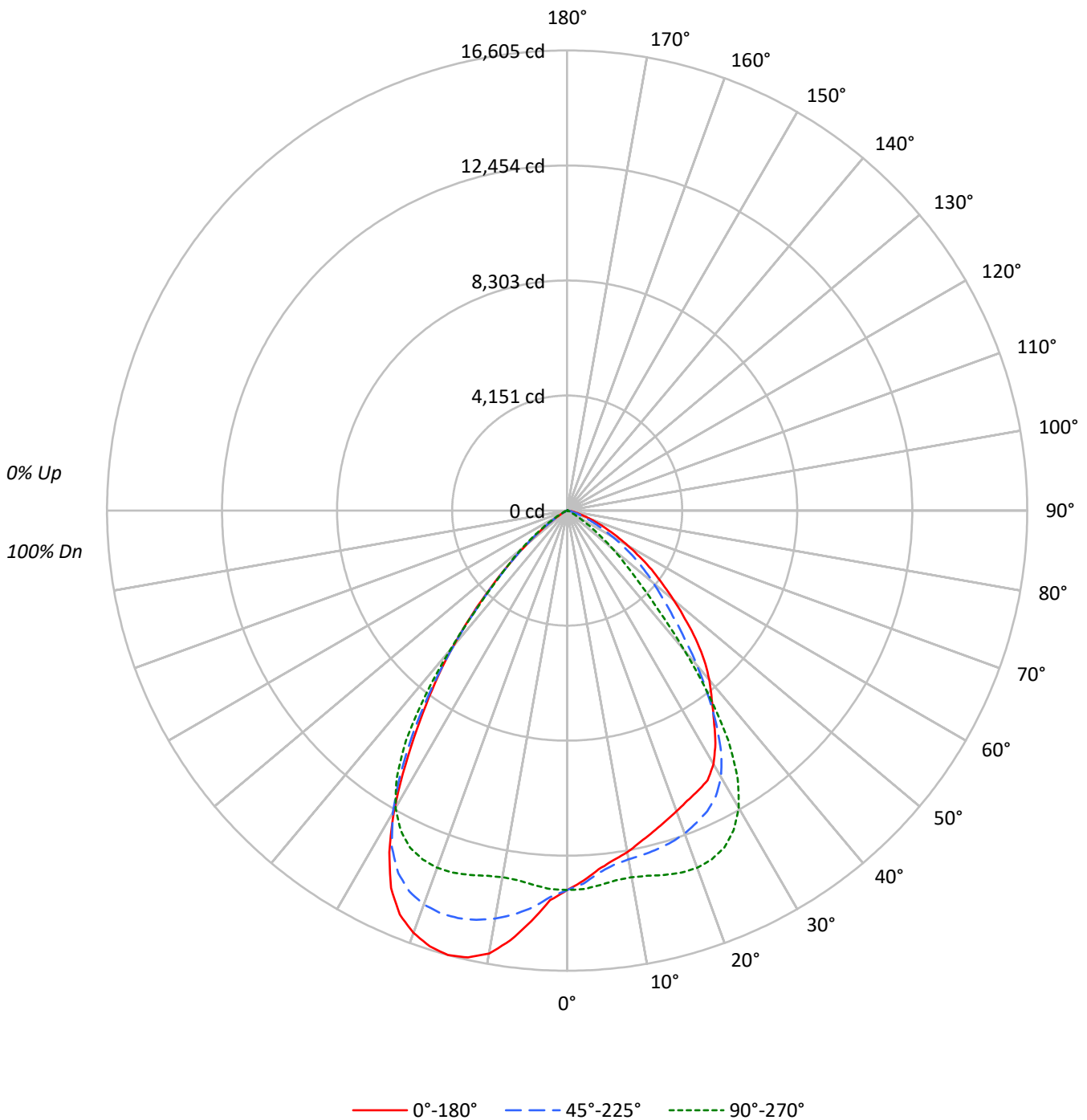
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	107	104	102	103	100	98	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60					60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45					45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42					42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	422254	422254	422254
5°	402276	419905	460315
10°	391904	420552	508113
15°	383016	434490	530093
20°	378800	450190	532081
25°	379689	456549	511410
30°	376164	440872	444746
35°	347591	381546	348066
40°	321202	264533	258096
45°	286019	159618	164912
50°	240660	102834	93321
55°	200218	56412	42665
60°	156278	24459	13420
65°	115321	12149	6530
70°	80188	7501	2876
75°	48801	1537	0
80°	35214	2291	0
85°	22644	2229	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1316.4	5.7
10°-20°	3939.8	17.0
20°-30°	6033.5	26.1
30°-40°	5914.8	25.5
40°-50°	3561.9	15.4
50°-60°	1639.4	7.1
60°-70°	575.9	2.5
70°-80°	150.6	0.7
80°-90°	25.6	0.1
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°	11289.7	48.8
0°-40°	17204.5	74.3
0°-60°	22405.8	96.8
0°-90°	23158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23158.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13693	13693	13693	13693	13693	
5°	12996	13118	13565	14378	14871	###
15°	11998	12644	13610	15223	16605	3390
25°	11159	11966	13418	14429	15031	5140
35°	9234	9362	10136	9553	9246	5783
45°	6559	5401	3660	3686	3782	5029
55°	3724	2950	1049	825	794	3323
65°	1580	1094	166	83	90	1610
75°	410	237	13	0	0	497
85°	64	32	6	0	0	88
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°	13693.4	13693.4	13693.4	13693.4	13693.4	13693.4	13693.4	13693.4	13693.4	13693.4	13693.4
2.5°	13373.4	13386.3	13386.3	13386.3	13411.8	13418.4	13411.8	13418.4	13431.0	13475.8	13495.0
5°	12995.9	12976.7	12989.6	12983.0	13015.2	13034.4	13021.5	13040.7	13085.5	13117.6	13149.5
7.5°	12727.3	12727.3	12727.3	12739.9	12759.2	12797.6	12791.3	12803.9	12848.7	12893.5	12938.3
10°	12516.1	12509.7	12509.7	12541.6	12567.2	12611.9	12624.8	12663.3	12720.7	12778.4	12829.5
12.5°	12240.8	12247.4	12279.3	12311.4	12368.8	12439.2	12477.6	12529.0	12618.5	12714.4	12772.1
15°	11997.7	12004.1	12029.9	12093.6	12164.2	12247.4	12330.4	12413.6	12522.4	12644.1	12746.5
17.5°	11761.0	11767.3	11786.5	11857.1	11946.6	12055.4	12151.3	12260.1	12401.0	12541.6	12669.6
20°	11543.4	11537.1	11569.0	11633.0	11748.3	11850.5	11946.6	12074.6	12228.2	12401.0	12547.9
22.5°	11332.2	11332.2	11364.3	11428.3	11530.8	11633.0	11735.4	11869.7	12023.3	12189.7	12362.5
25°	11159.4	11153.1	11197.9	11230.0	11306.6	11409.1	11517.9	11626.6	11780.2	11965.9	12132.1
27.5°	10974.0	10967.7	10974.0	11012.4	11082.8	11159.4	11242.6	11338.8	11466.8	11620.3	11780.2
30°	10564.4	10570.7	10570.7	10602.9	10641.3	10724.3	10769.1	10865.2	10980.3	11108.3	11249.2
32.5°	9956.5	9962.9	9962.9	9975.8	10007.6	10046.1	10084.5	10154.9	10244.4	10353.2	10481.2
35°	9233.6	9233.6	9227.0	9233.6	9252.8	9252.8	9284.7	9252.8	9297.6	9361.6	9457.4
37.5°	8568.0	8555.1	8542.5	8529.6	8510.3	8478.5	8433.7	8356.8	8337.5	8312.0	8318.3
40°	7979.4	7973.0	7934.6	7902.4	7838.4	7761.8	7653.0	7518.7	7409.9	7281.9	7173.1
42.5°	7326.7	7320.1	7288.2	7230.6	7160.2	7045.1	6872.4	6693.3	6475.7	6283.7	6085.4
45°	6558.7	6577.9	6533.1	6469.1	6385.9	6277.1	6085.4	5867.6	5650.0	5400.6	5150.9
47.5°	5758.8	5752.5	5720.6	5682.2	5611.8	5503.1	5375.1	5138.3	4907.8	4677.6	4421.6
50°	5016.6	4991.0	4978.1	4939.9	4895.2	4805.6	4671.0	4479.0	4274.4	4056.8	3820.1
52.5°	4312.8	4312.8	4280.7	4255.2	4216.7	4146.4	4031.3	3877.7	3705.0	3500.1	3250.6
55°	3724.2	3711.3	3679.4	3647.3	3608.8	3564.1	3461.9	3333.9	3148.2	2949.9	2732.3
57.5°	3097.1	3090.5	3077.9	3039.4	3020.2	2975.4	2860.3	2732.3	2572.4	2399.7	2220.3
60°	2534.0	2508.4	2482.6	2457.1	2425.2	2380.4	2303.5	2194.7	2060.4	1906.9	1727.8
62.5°	2028.6	2066.7	1990.1	1990.1	1926.1	1887.6	1817.3	1753.3	1612.4	1471.8	1318.2
65°	1580.5	1580.5	1548.4	1522.9	1484.4	1439.6	1369.3	1305.3	1202.9	1094.1	985.3
67.5°	1209.4	1202.9	1171.0	1145.4	1113.3	1087.8	1036.7	959.8	883.1	793.6	703.8
70°	889.4	883.1	876.5	831.8	806.2	774.3	735.9	684.8	627.1	563.1	479.9
72.5°	639.7	639.7	620.8	601.6	576.0	550.2	512.0	479.9	428.8	384.0	326.3
75°	409.6	403.2	403.2	371.1	371.1	332.6	307.1	287.9	262.3	236.8	185.7
77.5°	294.5	287.9	281.6	268.6	256.0	243.1	223.9	198.3	179.1	153.6	134.3
80°	198.3	185.7	179.1	179.1	159.9	153.6	159.9	121.7	115.1	95.9	83.2
82.5°	121.7	121.7	115.1	115.1	108.8	102.5	83.2	83.2	76.9	70.3	57.7
85°	64.0	83.2	57.7	64.0	57.7	64.0	57.7	44.8	38.5	31.9	31.9
87.5°	38.5	25.5	25.5	38.5	31.9	25.5	25.5	25.5	19.2	12.9	12.9
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°	13693.4	13693.4	13693.4	13693.4	13693.4	13693.4	13693.4	13693.4	13693.4	13693.4	13693.4
2.5°	13482.4	13527.2	13520.6	13578.3	13597.5	13642.3	13642.3	13674.1	13693.4	13738.1	13776.6
5°	13162.4	13232.7	13252.0	13322.3	13380.0	13450.3	13495.0	13565.4	13629.4	13725.5	13815.1
7.5°	12964.1	13021.5	13059.9	13143.2	13207.2	13283.8	13360.7	13456.6	13546.1	13661.5	13789.5
10°	12867.9	12944.8	13002.3	13085.5	13162.4	13245.6	13322.3	13431.0	13533.5	13680.7	13821.4
12.5°	12842.4	12931.9	13002.3	13117.6	13194.3	13283.8	13373.4	13495.0	13603.8	13757.4	13917.5
15°	12842.4	12964.1	13059.9	13187.9	13277.5	13392.6	13488.7	13610.1	13731.8	13891.7	14045.2
17.5°	12816.8	12964.1	13085.5	13232.7	13347.8	13463.2	13584.6	13700.0	13827.7	13981.5	14154.0
20°	12714.4	12900.1	13047.0	13219.8	13341.5	13469.5	13591.2	13718.9	13853.5	14013.4	14160.6
22.5°	12535.3	12752.8	12919.3	13104.7	13245.6	13373.4	13495.0	13623.1	13770.3	13923.8	14077.4
25°	12298.5	12503.2	12682.5	12874.3	13015.2	13155.8	13271.2	13418.4	13552.7	13700.0	13821.4
27.5°	11940.1	12157.6	12330.4	12529.0	12656.7	12791.3	12887.2	13008.9	13136.9	13258.3	13354.4
30°	11402.8	11601.1	11780.2	11959.3	12087.3	12183.4	12285.6	12381.7	12465.0	12547.9	12631.2
32.5°	10615.5	10794.9	10967.7	11133.9	11236.3	11319.5	11396.2	11453.9	11498.6	11543.4	11549.7
35°	9534.3	9681.3	9790.1	9937.3	10033.5	10110.1	10110.1	10135.6	10129.3	10110.1	10090.9
37.5°	8324.9	8382.3	8427.1	8484.8	8491.1	8491.1	8452.9	8420.8	8369.7	8356.8	8318.3
40°	7064.4	6987.5	6929.8	6853.1	6808.4	6712.2	6629.3	6571.6	6488.4	6475.7	6462.8
42.5°	5867.6	5688.5	5528.6	5394.3	5240.7	5106.1	4984.7	4895.2	4831.2	4824.6	4831.2
45°	4895.2	4690.3	4453.5	4268.1	4095.3	3928.8	3769.0	3660.2	3602.5	3589.6	3602.5
47.5°	4159.3	3922.5	3692.1	3480.8	3295.4	3109.7	2949.9	2802.6	2732.3	2713.1	2706.8
50°	3577.0	3333.9	3090.5	2872.9	2668.3	2482.6	2284.3	2143.6	2054.1	2022.0	1996.4
52.5°	3007.5	2790.0	2540.3	2316.4	2111.5	1894.0	1689.3	1529.2	1439.6	1401.4	1375.6
55°	2508.4	2290.9	2060.4	1842.9	1625.3	1407.8	1202.9	1049.3	953.4	908.7	876.5
57.5°	2002.7	1798.1	1599.8	1382.2	1202.9	991.9	787.0	652.7	569.4	518.3	492.8
60°	1548.4	1388.5	1215.8	1036.7	863.9	691.1	524.7	396.6	332.6	294.5	262.3
62.5°	1171.0	1036.7	921.3	767.8	633.4	486.2	358.5	256.0	198.3	166.5	153.6
65°	844.7	742.2	639.7	543.9	448.0	339.2	243.1	166.5	115.1	95.9	89.5
67.5°	601.6	518.3	441.4	377.4	307.1	243.1	172.8	115.1	89.5	76.9	70.3
70°	422.2	358.5	307.1	249.7	204.6	159.9	134.3	83.2	51.1	57.7	44.8
72.5°	281.6	236.8	211.2	172.8	140.6	115.1	83.2	57.7	57.7	44.8	38.5
75°	153.6	140.6	108.8	83.2	70.3	64.0	25.5	12.9	6.3	19.2	6.3
77.5°	108.8	95.9	83.2	70.3	57.7	44.8	25.5	25.5	19.2	25.5	12.9
80°	70.3	57.7	51.1	51.1	31.9	19.2	12.9	12.9	19.2	6.3	6.3
82.5°	44.8	38.5	31.9	31.9	31.9	19.2	19.2	19.2	19.2	12.9	12.9
85°	25.5	19.2	12.9	12.9	6.3	12.9	0.0	6.3	6.3	0.0	0.0
87.5°	12.9	6.3	6.3	6.3	6.3	0.0	0.0	6.3	0.0	6.3	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	13693.4	13693.4	13693.4	13693.4	13693.4	13693.4	13693.4	13693.4	13693.4	13693.4	13693.4
2.5°	13802.2	13827.7	13859.8	13885.4	13943.1	13955.7	13981.5	14007.1	14026.3	14045.2	14051.8
5°	13891.7	13987.8	14077.4	14173.3	14294.9	14378.2	14474.0	14557.3	14640.5	14710.8	14761.9
7.5°	13917.5	14064.5	14199.1	14365.3	14544.4	14698.2	14858.0	15017.9	15184.4	15312.4	15421.1
10°	13968.6	14147.7	14320.5	14518.8	14749.3	14953.9	15152.2	15363.5	15574.7	15753.8	15913.9
12.5°	14058.2	14256.5	14442.2	14659.7	14896.5	15126.7	15344.2	15581.0	15805.2	16003.5	16182.6
15°	14205.4	14390.8	14570.2	14774.8	15011.6	15222.8	15440.4	15670.6	15894.7	16099.3	16265.8
17.5°	14301.3	14474.0	14653.1	14838.8	15037.1	15229.1	15433.8	15638.7	15843.3	16029.0	16182.6
20°	14301.3	14467.7	14602.0	14768.5	14953.9	15120.4	15286.8	15465.9	15645.0	15798.6	15945.8
22.5°	14186.2	14346.0	14448.5	14576.5	14736.4	14877.3	14966.8	15165.1	15299.5	15433.8	15542.6
25°	13917.5	14032.6	14115.8	14205.4	14333.4	14429.3	14506.2	14621.3	14755.6	14806.9	14883.6
27.5°	13431.0	13514.3	13559.1	13578.3	13642.3	13693.4	13706.3	13757.4	13815.1	13827.7	13859.8
30°	12663.3	12669.6	12650.4	12644.1	12611.9	12573.7	12567.2	12560.8	12535.3	12509.7	12516.1
32.5°	11505.0	11473.1	11396.2	11313.2	11230.0	11140.4	11089.1	11025.1	10986.6	10948.4	10903.7
35°	10007.6	9931.0	9822.2	9719.8	9623.9	9553.3	9438.2	9399.8	9361.6	9310.2	9297.6
37.5°	8248.0	8203.2	8100.8	8024.1	7973.0	7940.9	7883.2	7845.0	7845.0	7825.8	7812.9
40°	6430.7	6418.0	6379.6	6398.8	6373.3	6385.9	6379.6	6366.7	6398.8	6398.8	6411.7
42.5°	4824.6	4831.2	4850.4	4863.0	4901.5	4907.8	4939.9	4939.9	4959.2	4978.1	4991.0
45°	3589.6	3615.4	3615.4	3641.0	3679.4	3685.7	3698.4	3705.0	3717.6	3749.7	3762.4
47.5°	2693.8	2700.2	2700.2	2706.8	2719.4	2732.3	2726.0	2732.3	2751.5	2738.6	2751.5
50°	1990.1	1996.4	1977.2	1958.0	1977.2	1977.2	1970.9	1951.6	1970.9	1945.3	1958.0
52.5°	1356.7	1350.1	1330.9	1337.4	1324.5	1318.2	1318.2	1305.3	1305.3	1305.3	1279.8
55°	857.6	857.6	844.7	844.7	838.3	825.4	819.1	812.5	806.2	799.9	799.9
57.5°	479.9	486.2	467.2	460.7	467.2	460.7	448.0	448.0	448.0	428.8	441.4
60°	262.3	256.0	249.7	243.1	236.8	243.1	243.1	230.5	230.5	230.5	236.8
62.5°	140.6	140.6	134.3	134.3	128.0	128.0	140.6	121.7	128.0	121.7	128.0
65°	76.9	95.9	70.3	70.3	89.5	83.2	76.9	76.9	83.2	70.3	76.9
67.5°	83.2	57.7	51.1	57.7	51.1	51.1	51.1	64.0	57.7	44.8	57.7
70°	38.5	44.8	44.8	31.9	51.1	25.5	44.8	25.5	38.5	31.9	38.5
72.5°	38.5	38.5	38.5	25.5	38.5	25.5	31.9	31.9	25.5	25.5	38.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.9	12.9	6.3	6.3	6.3	6.3	12.9	12.9	12.9	0.0	6.3
80°	12.9	12.9	0.0	6.3	0.0	0.0	6.3	0.0	6.3	0.0	12.9
82.5°	6.3	12.9	6.3	6.3	12.9	12.9	12.9	6.3	6.3	6.3	6.3
85°	0.0	6.3	0.0	0.0	0.0	0.0	12.9	0.0	0.0	0.0	6.3
87.5°	0.0	6.3	0.0	0.0	0.0	0.0	6.3	6.3	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: P249734

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	13693.4	13693.4	13693.4	13693.4
2.5°	14058.2	14064.5	14077.4	14071.1
5°	14800.4	14851.7	14877.3	14870.9
7.5°	15497.8	15587.6	15638.7	15638.7
10°	16035.3	16137.8	16214.4	16227.4
12.5°	16323.2	16438.6	16541.0	16515.2
15°	16406.4	16521.8	16624.0	16604.8
17.5°	16310.6	16425.7	16502.6	16489.7
20°	16048.3	16144.1	16221.0	16214.4
22.5°	15638.7	15721.9	15785.9	15779.3
25°	14947.6	15005.3	15056.4	15030.8
27.5°	13885.4	13904.6	13936.5	13898.3
30°	12471.3	12483.9	12496.8	12490.5
32.5°	10884.4	10877.8	10865.2	10852.3
35°	9278.3	9278.3	9284.7	9246.2
37.5°	7819.2	7812.9	7832.1	7812.9
40°	6424.4	6418.0	6443.6	6411.7
42.5°	5010.3	5029.5	5035.8	5035.8
45°	3769.0	3775.3	3781.6	3781.6
47.5°	2751.5	2757.8	2790.0	2751.5
50°	1945.3	1951.6	1958.0	1945.3
52.5°	1286.1	1292.7	1286.1	1266.9
55°	787.0	793.6	793.6	793.6
57.5°	422.2	428.8	428.8	422.2
60°	230.5	223.9	230.5	217.6
62.5°	121.7	134.3	128.0	115.1
65°	76.9	76.9	76.9	89.5
67.5°	64.0	51.1	57.7	44.8
70°	38.5	44.8	44.8	31.9
72.5°	31.9	31.9	31.9	38.5
75°	0.0	0.0	0.0	0.0
77.5°	12.9	12.9	12.9	6.3
80°	6.3	0.0	6.3	0.0
82.5°	6.3	6.3	12.9	6.3
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)