

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: P248943

Luminaire Tested: **LD8B120D010 ER8B120940 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248943
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: LD8B120D010 ER8B120940 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8392.0 lumens
Efficiency: N/A
Efficacy: 70.9 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

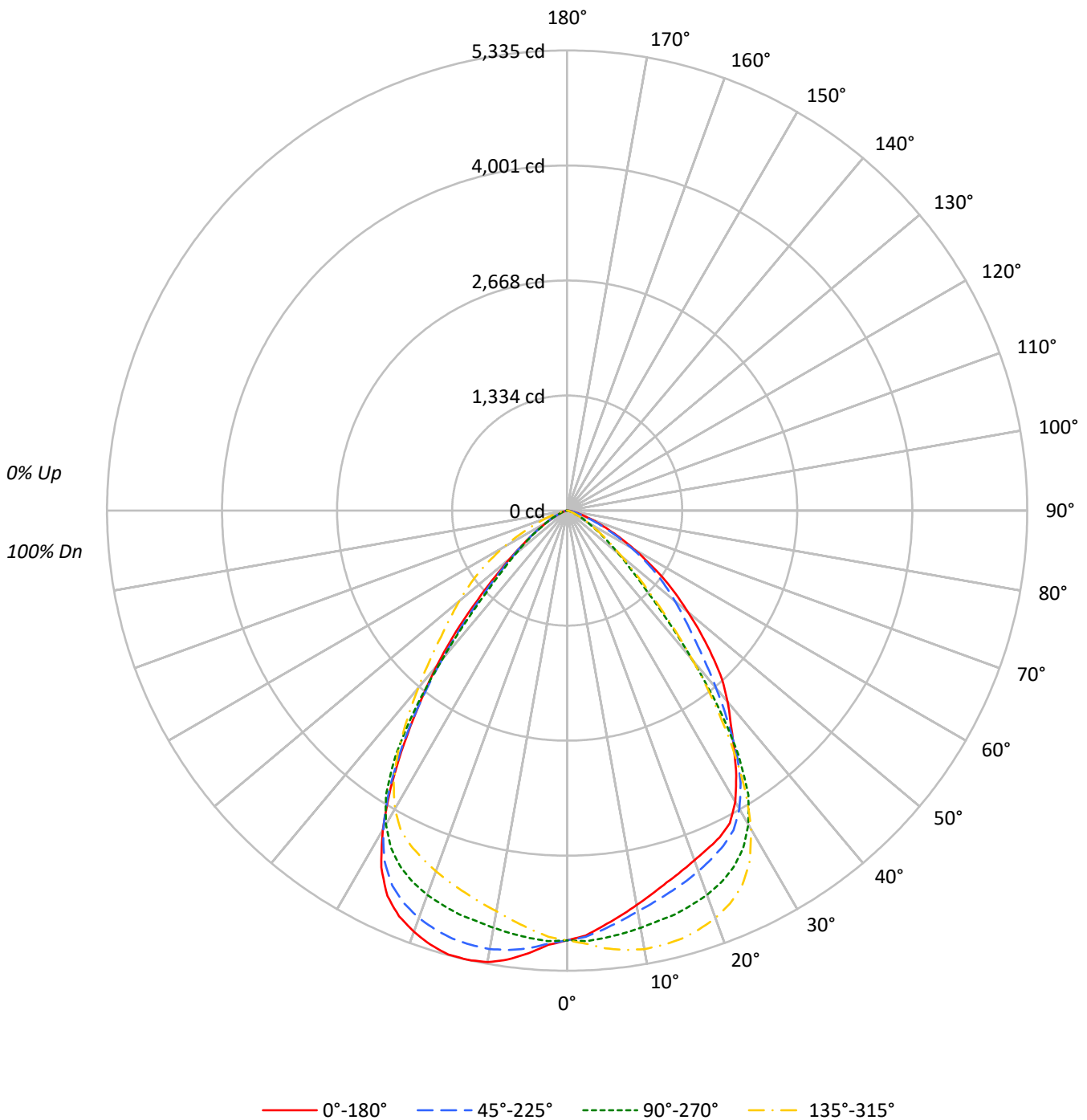
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	153630	153630	153630	153630
5°	149549	153990	159488	153990
10°	145410	153789	166433	153789
15°	142506	154701	170076	154701
20°	141536	155587	170512	155587
25°	142279	155272	167773	155272
30°	138763	149591	152276	149591
35°	126925	130494	123812	130494
40°	116531	90773	94794	90773
45°	103541	55375	64075	55375
50°	87641	36992	41079	36992
55°	72589	25241	26676	25241
60°	55364	16806	16954	16806
65°	39226	10470	9588	10470
70°	28292	7014	6365	7014
75°	17967	3479	2895	3479
80°	12537	2593	2149	2593
85°	11180	0	849	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.2	5.7
10°-20°	1373.2	16.4
20°-30°	2079.3	24.8
30°-40°	2084.0	24.8
40°-50°	1308.6	15.6
50°-60°	697.4	8.3
60°-70°	286.8	3.4
70°-80°	75.8	0.9
80°-90°	12.8	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°	3926.7	46.8
0°-40°	6010.7	71.6
0°-60°	8016.7	95.5
0°-90°	8392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8392.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4982	4982	4982	4982	4982	
5°	4831	4975	5152	4975	4831	456
15°	4464	4846	5328	4846	4464	1263
25°	4182	4564	4931	4564	4182	1918
35°	3372	3466	3289	3466	3372	2112
45°	2374	1270	1469	1270	2374	1826
55°	1350	470	496	470	1350	1204
65°	538	144	131	144	538	558
75°	151	29	24	29	151	171
85°	32	0	2	0	32	35
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°	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1
2.5°	4931.0	4926.1	4923.7	4928.6	4931.0	4940.7	4938.3	4943.1	4943.1	4945.6	4950.4
5°	4831.3	4828.8	4831.3	4831.3	4841.0	4850.7	4848.3	4855.6	4860.4	4872.6	4877.4
7.5°	4738.8	4738.8	4736.3	4746.1	4751.0	4765.6	4763.1	4775.3	4782.6	4794.7	4811.7
10°	4643.9	4643.9	4646.3	4653.6	4656.1	4678.0	4678.0	4695.0	4704.7	4716.9	4738.8
12.5°	4551.5	4551.5	4566.1	4561.2	4570.9	4588.0	4595.3	4612.3	4626.9	4651.2	4673.2
15°	4463.9	4463.9	4468.8	4480.9	4488.2	4510.2	4522.3	4541.8	4558.8	4583.1	4614.8
17.5°	4388.5	4386.1	4388.5	4403.1	4417.7	4437.2	4446.9	4471.2	4488.2	4519.9	4549.1
20°	4313.1	4318.0	4318.0	4330.1	4339.8	4364.2	4373.9	4400.7	4420.1	4449.3	4483.4
22.5°	4247.4	4245.0	4245.0	4262.0	4269.3	4291.2	4300.9	4325.2	4347.1	4371.5	4403.1
25°	4181.7	4176.8	4186.6	4189.0	4193.8	4218.2	4225.5	4242.5	4264.4	4286.4	4318.0
27.5°	4084.4	4079.6	4082.0	4091.7	4099.0	4118.4	4123.4	4140.4	4157.4	4176.8	4203.7
30°	3897.1	3892.3	3889.8	3906.9	3914.2	3928.7	3936.0	3965.2	3970.1	3992.0	4011.4
32.5°	3648.9	3646.5	3651.4	3666.0	3673.3	3692.8	3702.5	3719.5	3731.6	3743.9	3763.3
35°	3371.7	3366.8	3371.7	3386.3	3386.3	3403.3	3410.6	3417.8	3415.4	3417.8	3413.0
37.5°	3113.8	3111.3	3113.8	3121.0	3113.8	3121.0	3113.8	3099.2	3072.5	3043.2	3014.0
40°	2894.9	2897.3	2882.7	2892.5	2865.6	2860.8	2834.1	2797.5	2744.1	2685.7	2603.0
42.5°	2661.4	2654.0	2644.3	2649.1	2627.3	2610.2	2566.4	2520.3	2452.1	2354.9	2255.0
45°	2374.3	2371.9	2367.0	2364.6	2349.9	2332.9	2296.4	2242.9	2167.5	2067.8	1948.5
47.5°	2094.5	2087.2	2087.2	2089.6	2072.6	2070.2	2040.9	1994.8	1929.1	1831.8	1707.7
50°	1826.9	1824.5	1829.4	1839.1	1826.9	1822.1	1802.6	1771.0	1712.6	1629.9	1513.1
52.5°	1586.1	1583.7	1588.6	1600.7	1595.8	1600.7	1581.3	1556.9	1518.0	1437.7	1335.5
55°	1350.2	1350.2	1350.2	1364.7	1364.7	1364.7	1355.0	1340.4	1303.9	1245.5	1150.7
57.5°	1104.4	1106.8	1121.5	1123.9	1121.5	1126.4	1123.9	1109.2	1085.0	1043.7	970.7
60°	897.7	897.7	905.0	912.3	909.8	912.3	912.3	905.0	880.6	846.6	788.2
62.5°	710.3	717.6	712.7	717.6	727.3	717.6	712.7	707.9	690.9	669.0	620.3
65°	537.6	542.5	542.5	544.9	540.0	542.5	532.8	525.5	515.8	491.4	459.8
67.5°	408.7	408.7	408.7	408.7	406.2	403.8	401.4	394.1	377.1	367.4	333.2
70°	313.8	299.2	299.2	299.2	299.2	301.7	294.4	284.7	279.8	262.7	238.4
72.5°	209.2	214.1	209.2	209.2	204.4	206.8	197.1	192.1	187.3	177.6	163.0
75°	150.8	138.7	143.5	146.0	138.7	143.5	133.8	124.1	124.1	116.8	109.4
77.5°	97.3	94.9	97.3	99.7	97.3	94.9	90.0	85.1	85.1	82.7	75.4
80°	70.6	68.1	68.1	68.1	65.7	68.1	63.3	63.3	58.4	56.0	51.1
82.5°	46.3	46.3	43.8	46.3	43.8	46.3	39.0	39.0	39.0	36.4	31.6
85°	31.6	26.7	26.7	29.2	24.3	29.2	26.7	24.3	21.9	21.9	19.4
87.5°	14.6	17.0	14.6	17.0	14.6	14.6	17.0	14.6	14.6	9.7	9.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1
2.5°	4957.7	4960.1	4960.1	4969.9	4974.8	4977.2	4977.2	4996.7	4989.4	4994.3	4999.1
5°	4887.2	4901.8	4906.7	4906.7	4933.4	4943.1	4952.8	4974.8	4977.2	4991.8	5008.8
7.5°	4819.1	4836.1	4845.9	4867.7	4884.7	4901.8	4931.0	4945.6	4960.1	4979.7	5001.5
10°	4753.4	4772.9	4792.3	4809.3	4836.1	4858.0	4877.4	4911.5	4928.6	4955.3	4984.5
12.5°	4690.2	4716.9	4733.9	4763.1	4792.3	4811.7	4841.0	4872.6	4899.4	4926.1	4960.1
15°	4634.2	4665.9	4685.3	4716.9	4748.6	4775.3	4806.9	4845.9	4865.3	4897.0	4928.6
17.5°	4573.3	4607.5	4631.8	4660.9	4699.9	4729.0	4755.9	4794.7	4819.1	4853.1	4889.6
20°	4510.2	4544.2	4573.3	4602.6	4641.5	4670.7	4702.3	4741.3	4768.0	4802.0	4831.3
22.5°	4434.8	4466.4	4497.9	4532.0	4570.9	4595.3	4631.8	4665.9	4695.0	4726.6	4755.9
25°	4337.4	4376.4	4400.7	4432.3	4463.9	4490.6	4529.6	4563.6	4588.0	4617.2	4643.9
27.5°	4223.1	4252.3	4271.7	4298.5	4330.1	4354.5	4383.6	4417.7	4442.1	4468.8	4488.2
30°	4028.4	4055.3	4072.3	4091.7	4123.4	4145.3	4169.6	4201.2	4218.2	4237.7	4254.7
32.5°	3773.0	3794.9	3804.6	3819.3	3841.2	3863.0	3882.5	3909.3	3916.6	3928.7	3928.7
35°	3403.3	3408.1	3405.7	3410.6	3420.3	3432.5	3449.5	3466.5	3476.2	3476.2	3469.0
37.5°	2970.3	2941.1	2909.5	2885.1	2877.8	2872.9	2882.7	2889.9	2899.8	2904.6	2892.5
40°	2520.3	2454.6	2384.0	2320.7	2277.0	2257.5	2250.2	2255.0	2255.0	2272.0	2272.0
42.5°	2133.5	2031.2	1926.7	1831.8	1768.5	1719.9	1698.0	1698.0	1700.4	1712.6	1719.9
45°	1812.4	1683.4	1561.7	1457.2	1369.6	1306.3	1277.2	1269.8	1267.4	1272.3	1289.3
47.5°	1566.6	1432.9	1306.3	1177.4	1085.0	1021.7	995.0	985.2	975.5	985.2	987.7
50°	1374.5	1235.8	1102.0	973.1	875.7	819.8	785.7	771.1	768.7	768.7	773.6
52.5°	1199.3	1070.4	936.6	805.2	703.0	649.5	617.9	610.6	600.9	610.6	610.6
55°	1033.8	905.0	773.6	649.5	564.3	508.5	479.2	469.5	464.6	471.9	471.9
57.5°	853.9	744.4	622.8	510.9	425.8	386.8	364.9	352.8	350.3	355.2	350.3
60°	700.6	608.2	503.6	401.4	335.7	294.4	277.4	272.5	267.5	272.5	272.5
62.5°	554.6	476.8	391.6	313.8	257.8	228.7	209.2	209.2	206.8	206.8	209.2
65°	411.1	350.3	289.5	223.8	180.0	158.1	143.5	143.5	141.1	143.5	141.1
67.5°	299.2	257.8	209.2	163.0	129.0	116.8	107.0	99.7	104.6	99.7	97.3
70°	219.0	184.8	150.8	124.1	99.7	87.6	80.3	77.8	73.0	73.0	73.0
72.5°	146.0	124.1	102.1	80.3	65.7	53.5	51.1	46.3	41.4	43.8	48.7
75°	97.3	82.7	73.0	58.4	43.8	43.8	29.2	29.2	24.3	29.2	21.9
77.5°	68.1	56.0	43.8	36.4	29.2	26.7	19.4	19.4	17.0	17.0	17.0
80°	48.7	41.4	31.6	26.7	19.4	19.4	17.0	14.6	12.1	12.1	14.6
82.5°	29.2	21.9	21.9	19.4	12.1	9.7	7.3	9.7	4.9	4.9	4.9
85°	17.0	14.6	12.1	7.3	4.9	4.9	2.4	0.0	2.4	2.4	0.0
87.5°	9.7	4.9	4.9	2.4	0.0	2.4	2.4	0.0	0.0	0.0	4.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1
2.5°	5011.3	5008.8	5013.7	5013.7	5028.3	5025.8	5033.1	5033.1	5028.3	5030.7	5040.4
5°	5028.3	5035.6	5050.2	5062.4	5084.2	5094.0	5106.1	5118.3	5120.7	5128.1	5135.4
7.5°	5028.3	5052.7	5069.7	5091.5	5120.7	5137.8	5164.5	5186.4	5196.1	5208.3	5222.9
10°	5018.5	5042.8	5074.5	5098.8	5135.4	5162.1	5188.8	5222.9	5237.5	5256.9	5276.4
12.5°	4999.1	5025.8	5059.9	5091.5	5132.9	5157.2	5191.2	5222.9	5244.8	5271.5	5293.5
15°	4969.9	5001.5	5033.1	5064.8	5108.5	5137.8	5169.4	5205.9	5227.8	5256.9	5276.4
17.5°	4923.7	4957.7	4987.0	5016.1	5057.5	5091.5	5120.7	5154.8	5176.7	5201.0	5227.8
20°	4867.7	4899.4	4931.0	4955.3	4996.7	5025.8	5057.5	5089.1	5106.1	5111.0	5152.4
22.5°	4797.2	4819.1	4843.4	4882.3	4906.7	4933.4	4962.6	4991.8	5008.8	5035.6	5050.2
25°	4680.4	4702.3	4729.0	4746.1	4775.3	4797.2	4826.4	4858.0	4867.7	4887.2	4901.8
27.5°	4517.5	4529.6	4541.8	4556.3	4573.3	4585.6	4602.6	4617.2	4626.9	4636.6	4646.3
30°	4259.5	4259.5	4259.5	4249.8	4257.1	4264.4	4266.8	4264.4	4264.4	4262.0	4262.0
32.5°	3919.0	3899.6	3877.6	3858.2	3850.9	3841.2	3836.3	3829.0	3816.9	3809.5	3811.9
35°	3459.2	3415.4	3388.7	3364.4	3344.9	3330.3	3323.0	3315.7	3313.3	3303.6	3293.8
37.5°	2885.1	2853.5	2834.1	2819.5	2802.4	2787.8	2790.2	2792.7	2799.9	2795.1	2797.5
40°	2277.0	2269.6	2277.0	2259.9	2255.0	2259.9	2272.0	2289.2	2298.9	2308.6	2325.6
42.5°	1732.0	1744.2	1761.3	1761.3	1768.5	1778.3	1792.8	1819.7	1834.2	1851.2	1870.7
45°	1303.9	1318.5	1340.4	1347.6	1352.6	1364.7	1381.8	1403.6	1413.3	1428.0	1445.0
47.5°	1004.7	1014.4	1026.5	1038.7	1050.9	1055.8	1072.8	1072.8	1085.0	1094.7	1099.5
50°	783.3	793.0	802.7	810.1	815.0	822.3	827.1	834.4	836.8	841.7	844.1
52.5°	613.0	625.2	625.2	630.0	637.3	644.6	642.2	644.6	647.0	647.0	654.3
55°	479.2	479.2	486.5	486.5	491.4	488.9	491.4	491.4	491.4	491.4	493.8
57.5°	357.6	360.1	367.4	362.5	360.1	364.9	360.1	364.9	362.5	367.4	360.1
60°	274.9	274.9	277.4	277.4	279.8	279.8	279.8	277.4	277.4	274.9	274.9
62.5°	206.8	209.2	211.7	209.2	209.2	209.2	206.8	206.8	204.4	201.9	201.9
65°	138.7	136.3	141.1	136.3	138.7	138.7	136.3	138.7	131.4	133.8	131.4
67.5°	99.7	97.3	94.9	97.3	94.9	92.4	92.4	94.9	97.3	90.0	90.0
70°	65.7	68.1	65.7	68.1	70.6	70.6	68.1	65.7	68.1	63.3	65.7
72.5°	41.4	41.4	41.4	41.4	41.4	43.8	43.8	43.8	39.0	39.0	36.4
75°	19.4	26.7	21.9	19.4	26.7	26.7	24.3	24.3	21.9	21.9	21.9
77.5°	19.4	14.6	14.6	14.6	14.6	14.6	14.6	14.6	12.1	14.6	12.1
80°	9.7	9.7	9.7	7.3	9.7	9.7	12.1	9.7	9.7	7.3	12.1
82.5°	4.9	4.9	4.9	0.0	2.4	4.9	4.9	2.4	4.9	4.9	2.4
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: P248943

CATALOG NUMBER: LD8B120D010 ER8B120940 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1
2.5°	5038.0	5035.6	5038.0	5040.4	5038.0	5035.6	5038.0	5040.4	5030.7	5028.3	5033.1
5°	5145.1	5145.1	5149.9	5152.4	5149.9	5145.1	5145.1	5135.4	5128.1	5120.7	5118.3
7.5°	5237.5	5242.4	5247.2	5249.6	5247.2	5242.4	5237.5	5222.9	5208.3	5196.1	5186.4
10°	5293.5	5300.8	5310.5	5315.3	5310.5	5300.8	5293.5	5276.4	5256.9	5237.5	5222.9
12.5°	5317.8	5325.1	5337.2	5334.8	5337.2	5325.1	5317.8	5293.5	5271.5	5244.8	5222.9
15°	5300.8	5310.5	5322.6	5327.5	5322.6	5310.5	5300.8	5276.4	5256.9	5227.8	5205.9
17.5°	5247.2	5261.8	5269.1	5276.4	5269.1	5261.8	5247.2	5227.8	5201.0	5176.7	5154.8
20°	5174.2	5184.0	5193.7	5196.1	5193.7	5184.0	5174.2	5152.4	5111.0	5106.1	5089.1
22.5°	5069.7	5077.0	5098.8	5091.5	5098.8	5077.0	5069.7	5050.2	5035.6	5008.8	4991.8
25°	4918.8	4926.1	4928.6	4931.0	4928.6	4926.1	4918.8	4901.8	4887.2	4867.7	4858.0
27.5°	4658.5	4658.5	4663.4	4665.9	4663.4	4658.5	4658.5	4646.3	4636.6	4626.9	4617.2
30°	4264.4	4264.4	4264.4	4276.6	4264.4	4264.4	4264.4	4262.0	4262.0	4264.4	4264.4
32.5°	3809.5	3804.6	3799.8	3804.6	3799.8	3804.6	3809.5	3811.9	3809.5	3816.9	3829.0
35°	3293.8	3291.4	3298.7	3289.0	3298.7	3291.4	3293.8	3293.8	3303.6	3313.3	3315.7
37.5°	2799.9	2795.1	2804.8	2795.1	2804.8	2795.1	2799.9	2797.5	2795.1	2799.9	2792.7
40°	2330.5	2335.3	2335.3	2354.9	2335.3	2335.3	2330.5	2325.6	2308.6	2298.9	2289.2
42.5°	1880.4	1895.1	1890.2	1904.8	1890.2	1895.1	1880.4	1870.7	1851.2	1834.2	1819.7
45°	1454.7	1464.5	1464.5	1469.3	1464.5	1464.5	1454.7	1445.0	1428.0	1413.3	1403.6
47.5°	1116.5	1116.5	1116.5	1119.1	1116.5	1116.5	1116.5	1099.5	1094.7	1085.0	1072.8
50°	849.0	851.4	853.9	856.3	853.9	851.4	849.0	844.1	841.7	836.8	834.4
52.5°	651.9	654.3	649.5	654.3	649.5	654.3	651.9	654.3	647.0	647.0	644.6
55°	493.8	491.4	493.8	496.2	493.8	491.4	493.8	493.8	491.4	491.4	491.4
57.5°	362.5	357.6	357.6	357.6	357.6	357.6	362.5	360.1	367.4	362.5	364.9
60°	270.1	272.5	272.5	274.9	272.5	272.5	270.1	274.9	274.9	277.4	277.4
62.5°	199.5	206.8	201.9	206.8	201.9	206.8	199.5	201.9	201.9	204.4	206.8
65°	129.0	129.0	129.0	131.4	129.0	129.0	129.0	131.4	133.8	131.4	138.7
67.5°	87.6	90.0	94.9	92.4	94.9	90.0	87.6	90.0	90.0	97.3	94.9
70°	70.6	63.3	63.3	70.6	63.3	63.3	70.6	65.7	63.3	68.1	65.7
72.5°	41.4	36.4	41.4	41.4	41.4	36.4	41.4	36.4	39.0	39.0	43.8
75°	21.9	19.4	17.0	24.3	17.0	19.4	21.9	21.9	21.9	21.9	24.3
77.5°	14.6	12.1	17.0	17.0	17.0	12.1	14.6	12.1	14.6	12.1	14.6
80°	7.3	9.7	7.3	12.1	7.3	9.7	7.3	12.1	7.3	9.7	9.7
82.5°	2.4	4.9	4.9	4.9	4.9	4.9	2.4	2.4	4.9	4.9	2.4
85°	0.0	4.9	2.4	2.4	2.4	4.9	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	0.0	0.0	2.4	0.0	0.0	2.4	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: P248943

CATALOG NUMBER: LD8B120D010 ER8B120940 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1
2.5°	5033.1	5025.8	5028.3	5013.7	5013.7	5008.8	5011.3	4999.1	4994.3	4989.4	4996.7
5°	5106.1	5094.0	5084.2	5062.4	5050.2	5035.6	5028.3	5008.8	4991.8	4977.2	4974.8
7.5°	5164.5	5137.8	5120.7	5091.5	5069.7	5052.7	5028.3	5001.5	4979.7	4960.1	4945.6
10°	5188.8	5162.1	5135.4	5098.8	5074.5	5042.8	5018.5	4984.5	4955.3	4928.6	4911.5
12.5°	5191.2	5157.2	5132.9	5091.5	5059.9	5025.8	4999.1	4960.1	4926.1	4899.4	4872.6
15°	5169.4	5137.8	5108.5	5064.8	5033.1	5001.5	4969.9	4928.6	4897.0	4865.3	4845.9
17.5°	5120.7	5091.5	5057.5	5016.1	4987.0	4957.7	4923.7	4889.6	4853.1	4819.1	4794.7
20°	5057.5	5025.8	4996.7	4955.3	4931.0	4899.4	4867.7	4831.3	4802.0	4768.0	4741.3
22.5°	4962.6	4933.4	4906.7	4882.3	4843.4	4819.1	4797.2	4755.9	4726.6	4695.0	4665.9
25°	4826.4	4797.2	4775.3	4746.1	4729.0	4702.3	4680.4	4643.9	4617.2	4588.0	4563.6
27.5°	4602.6	4585.6	4573.3	4556.3	4541.8	4529.6	4517.5	4488.2	4468.8	4442.1	4417.7
30°	4266.8	4264.4	4257.1	4249.8	4259.5	4259.5	4259.5	4254.7	4237.7	4218.2	4201.2
32.5°	3836.3	3841.2	3850.9	3858.2	3877.6	3899.6	3919.0	3928.7	3928.7	3916.6	3909.3
35°	3323.0	3330.3	3344.9	3364.4	3388.7	3415.4	3459.2	3469.0	3476.2	3476.2	3466.5
37.5°	2790.2	2787.8	2802.4	2819.5	2834.1	2853.5	2885.1	2892.5	2904.6	2899.8	2889.9
40°	2272.0	2259.9	2255.0	2259.9	2277.0	2269.6	2277.0	2272.0	2272.0	2255.0	2255.0
42.5°	1792.8	1778.3	1768.5	1761.3	1761.3	1744.2	1732.0	1719.9	1712.6	1700.4	1698.0
45°	1381.8	1364.7	1352.6	1347.6	1340.4	1318.5	1303.9	1289.3	1272.3	1267.4	1269.8
47.5°	1072.8	1055.8	1050.9	1038.7	1026.5	1014.4	1004.7	987.7	985.2	975.5	985.2
50°	827.1	822.3	815.0	810.1	802.7	793.0	783.3	773.6	768.7	768.7	771.1
52.5°	642.2	644.6	637.3	630.0	625.2	625.2	613.0	610.6	610.6	600.9	610.6
55°	491.4	488.9	491.4	486.5	486.5	479.2	479.2	471.9	471.9	464.6	469.5
57.5°	360.1	364.9	360.1	362.5	367.4	360.1	357.6	350.3	355.2	350.3	352.8
60°	279.8	279.8	279.8	277.4	277.4	274.9	274.9	272.5	272.5	267.5	272.5
62.5°	206.8	209.2	209.2	209.2	211.7	209.2	206.8	209.2	206.8	206.8	209.2
65°	136.3	138.7	138.7	136.3	141.1	136.3	138.7	141.1	143.5	141.1	143.5
67.5°	92.4	92.4	94.9	97.3	94.9	97.3	99.7	97.3	99.7	104.6	99.7
70°	68.1	70.6	70.6	68.1	65.7	68.1	65.7	73.0	73.0	73.0	77.8
72.5°	43.8	43.8	41.4	41.4	41.4	41.4	41.4	48.7	43.8	41.4	46.3
75°	24.3	26.7	26.7	19.4	21.9	26.7	19.4	21.9	29.2	24.3	29.2
77.5°	14.6	14.6	14.6	14.6	14.6	14.6	19.4	17.0	17.0	17.0	19.4
80°	12.1	9.7	9.7	7.3	9.7	9.7	9.7	14.6	12.1	12.1	14.6
82.5°	4.9	4.9	2.4	0.0	4.9	4.9	4.9	4.9	4.9	4.9	9.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	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: P248943

CATALOG NUMBER: LD8B120D010 ER8B120940 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1
2.5°	4977.2	4977.2	4974.8	4969.9	4960.1	4960.1	4957.7	4950.4	4945.6	4943.1	4943.1
5°	4952.8	4943.1	4933.4	4906.7	4906.7	4901.8	4887.2	4877.4	4872.6	4860.4	4855.6
7.5°	4931.0	4901.8	4884.7	4867.7	4845.9	4836.1	4819.1	4811.7	4794.7	4782.6	4775.3
10°	4877.4	4858.0	4836.1	4809.3	4792.3	4772.9	4753.4	4738.8	4716.9	4704.7	4695.0
12.5°	4841.0	4811.7	4792.3	4763.1	4733.9	4716.9	4690.2	4673.2	4651.2	4626.9	4612.3
15°	4806.9	4775.3	4748.6	4716.9	4685.3	4665.9	4634.2	4614.8	4583.1	4558.8	4541.8
17.5°	4755.9	4729.0	4699.9	4660.9	4631.8	4607.5	4573.3	4549.1	4519.9	4488.2	4471.2
20°	4702.3	4670.7	4641.5	4602.6	4573.3	4544.2	4510.2	4483.4	4449.3	4420.1	4400.7
22.5°	4631.8	4595.3	4570.9	4532.0	4497.9	4466.4	4434.8	4403.1	4371.5	4347.1	4325.2
25°	4529.6	4490.6	4463.9	4432.3	4400.7	4376.4	4337.4	4318.0	4286.4	4264.4	4242.5
27.5°	4383.6	4354.5	4330.1	4298.5	4271.7	4252.3	4223.1	4203.7	4176.8	4157.4	4140.4
30°	4169.6	4145.3	4123.4	4091.7	4072.3	4055.3	4028.4	4011.4	3992.0	3970.1	3965.2
32.5°	3882.5	3863.0	3841.2	3819.3	3804.6	3794.9	3773.0	3763.3	3743.9	3731.6	3719.5
35°	3449.5	3432.5	3420.3	3410.6	3405.7	3408.1	3403.3	3413.0	3417.8	3415.4	3417.8
37.5°	2882.7	2872.9	2877.8	2885.1	2909.5	2941.1	2970.3	3014.0	3043.2	3072.5	3099.2
40°	2250.2	2257.5	2277.0	2320.7	2384.0	2454.6	2520.3	2603.0	2685.7	2744.1	2797.5
42.5°	1698.0	1719.9	1768.5	1831.8	1926.7	2031.2	2133.5	2255.0	2354.9	2452.1	2520.3
45°	1277.2	1306.3	1369.6	1457.2	1561.7	1683.4	1812.4	1948.5	2067.8	2167.5	2242.9
47.5°	995.0	1021.7	1085.0	1177.4	1306.3	1432.9	1566.6	1707.7	1831.8	1929.1	1994.8
50°	785.7	819.8	875.7	973.1	1102.0	1235.8	1374.5	1513.1	1629.9	1712.6	1771.0
52.5°	617.9	649.5	703.0	805.2	936.6	1070.4	1199.3	1335.5	1437.7	1518.0	1556.9
55°	479.2	508.5	564.3	649.5	773.6	905.0	1033.8	1150.7	1245.5	1303.9	1340.4
57.5°	364.9	386.8	425.8	510.9	622.8	744.4	853.9	970.7	1043.7	1085.0	1109.2
60°	277.4	294.4	335.7	401.4	503.6	608.2	700.6	788.2	846.6	880.6	905.0
62.5°	209.2	228.7	257.8	313.8	391.6	476.8	554.6	620.3	669.0	690.9	707.9
65°	143.5	158.1	180.0	223.8	289.5	350.3	411.1	459.8	491.4	515.8	525.5
67.5°	107.0	116.8	129.0	163.0	209.2	257.8	299.2	333.2	367.4	377.1	394.1
70°	80.3	87.6	99.7	124.1	150.8	184.8	219.0	238.4	262.7	279.8	284.7
72.5°	51.1	53.5	65.7	80.3	102.1	124.1	146.0	163.0	177.6	187.3	192.1
75°	29.2	43.8	43.8	58.4	73.0	82.7	97.3	109.4	116.8	124.1	124.1
77.5°	19.4	26.7	29.2	36.4	43.8	56.0	68.1	75.4	82.7	85.1	85.1
80°	17.0	19.4	19.4	26.7	31.6	41.4	48.7	51.1	56.0	58.4	63.3
82.5°	7.3	9.7	12.1	19.4	21.9	21.9	29.2	31.6	36.4	39.0	39.0
85°	2.4	4.9	4.9	7.3	12.1	14.6	17.0	19.4	21.9	21.9	24.3
87.5°	2.4	2.4	0.0	2.4	4.9	4.9	9.7	9.7	9.7	14.6	14.6
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: P248943

CATALOG NUMBER: LD8B120D010 ER8B120940 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1	4982.1
2.5°	4938.3	4940.7	4931.0	4928.6	4923.7	4926.1	4931.0
5°	4848.3	4850.7	4841.0	4831.3	4831.3	4828.8	4831.3
7.5°	4763.1	4765.6	4751.0	4746.1	4736.3	4738.8	4738.8
10°	4678.0	4678.0	4656.1	4653.6	4646.3	4643.9	4643.9
12.5°	4595.3	4588.0	4570.9	4561.2	4566.1	4551.5	4551.5
15°	4522.3	4510.2	4488.2	4480.9	4468.8	4463.9	4463.9
17.5°	4446.9	4437.2	4417.7	4403.1	4388.5	4386.1	4388.5
20°	4373.9	4364.2	4339.8	4330.1	4318.0	4318.0	4313.1
22.5°	4300.9	4291.2	4269.3	4262.0	4245.0	4245.0	4247.4
25°	4225.5	4218.2	4193.8	4189.0	4186.6	4176.8	4181.7
27.5°	4123.4	4118.4	4099.0	4091.7	4082.0	4079.6	4084.4
30°	3936.0	3928.7	3914.2	3906.9	3889.8	3892.3	3897.1
32.5°	3702.5	3692.8	3673.3	3666.0	3651.4	3646.5	3648.9
35°	3410.6	3403.3	3386.3	3386.3	3371.7	3366.8	3371.7
37.5°	3113.8	3121.0	3113.8	3121.0	3113.8	3111.3	3113.8
40°	2834.1	2860.8	2865.6	2892.5	2882.7	2897.3	2894.9
42.5°	2566.4	2610.2	2627.3	2649.1	2644.3	2654.0	2661.4
45°	2296.4	2332.9	2349.9	2364.6	2367.0	2371.9	2374.3
47.5°	2040.9	2070.2	2072.6	2089.6	2087.2	2087.2	2094.5
50°	1802.6	1822.1	1826.9	1839.1	1829.4	1824.5	1826.9
52.5°	1581.3	1600.7	1595.8	1600.7	1588.6	1583.7	1586.1
55°	1355.0	1364.7	1364.7	1364.7	1350.2	1350.2	1350.2
57.5°	1123.9	1126.4	1121.5	1123.9	1121.5	1106.8	1104.4
60°	912.3	912.3	909.8	912.3	905.0	897.7	897.7
62.5°	712.7	717.6	727.3	717.6	712.7	717.6	710.3
65°	532.8	542.5	540.0	544.9	542.5	542.5	537.6
67.5°	401.4	403.8	406.2	408.7	408.7	408.7	408.7
70°	294.4	301.7	299.2	299.2	299.2	299.2	313.8
72.5°	197.1	206.8	204.4	209.2	209.2	214.1	209.2
75°	133.8	143.5	138.7	146.0	143.5	138.7	150.8
77.5°	90.0	94.9	97.3	99.7	97.3	94.9	97.3
80°	63.3	68.1	65.7	68.1	68.1	68.1	70.6
82.5°	39.0	46.3	43.8	46.3	43.8	46.3	46.3
85°	26.7	29.2	24.3	29.2	26.7	26.7	31.6
87.5°	17.0	14.6	14.6	17.0	14.6	17.0	14.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)