

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: P248934

Luminaire Tested: **LD8B120D010 ER8B120935 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248934
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 ER8B120935 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8034.0 lumens
Efficiency: N/A
Efficacy: 67.9 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

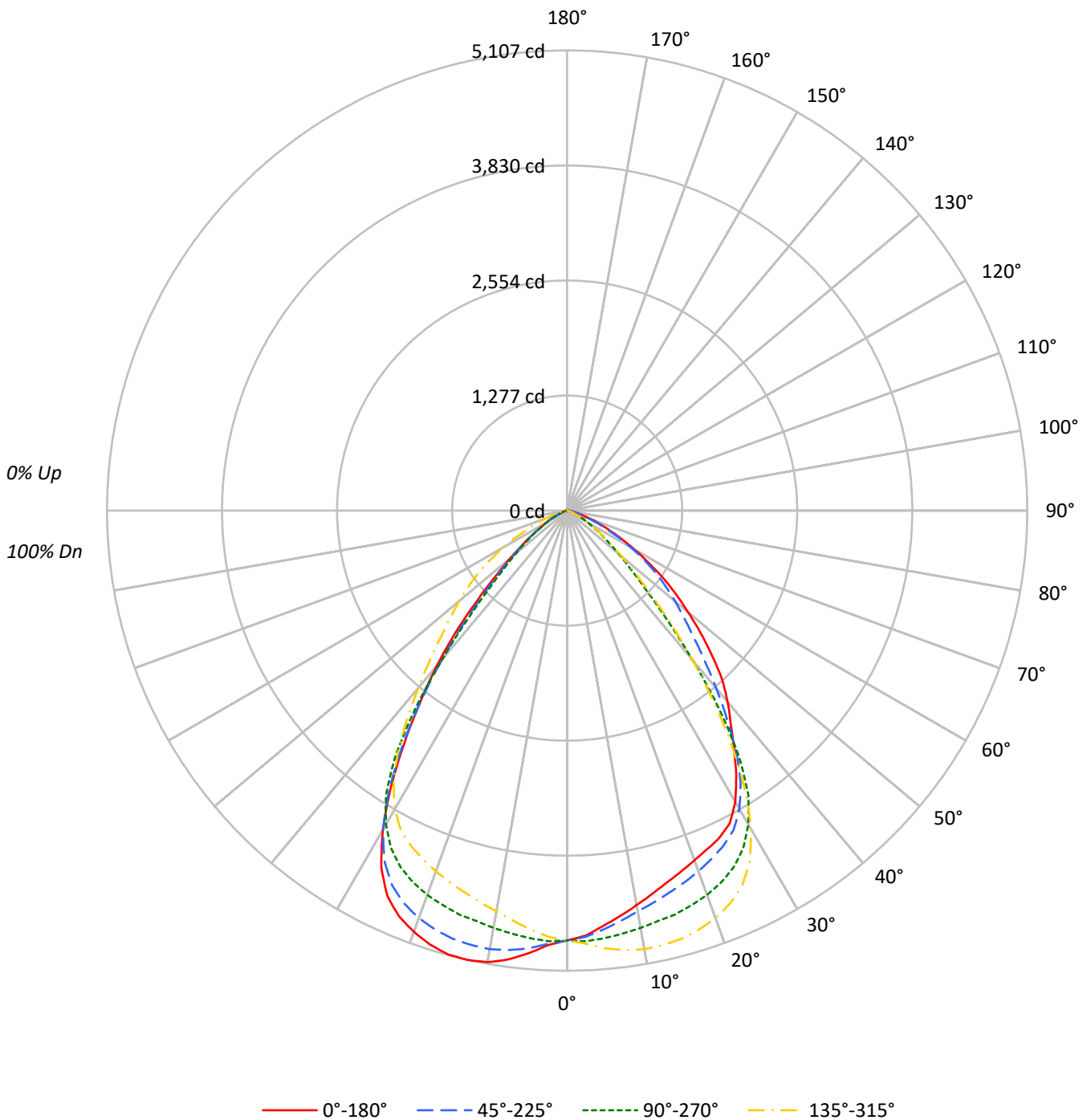
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	147074	147074	147074	147074
5°	143169	147419	152684	147419
10°	139207	147229	159331	147229
15°	136428	148102	162819	148102
20°	135498	148949	163240	148949
25°	136209	148648	160614	148648
30°	132842	143207	145781	143207
35°	121508	124926	118530	124926
40°	111560	86900	90749	86900
45°	99124	53016	61341	53016
50°	83900	35414	39328	35414
55°	69492	24166	25542	24166
60°	53001	16084	16226	16084
65°	37555	10025	9179	10025
70°	27084	6717	6095	6717
75°	17204	3336	2776	3336
80°	12004	2486	2060	2486
85°	10720	0	814	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.0	5.7
10°-20°	1314.6	16.4
20°-30°	1990.6	24.8
30°-40°	1995.1	24.8
40°-50°	1252.8	15.6
50°-60°	667.6	8.3
60°-70°	274.5	3.4
70°-80°	72.5	0.9
80°-90°	12.3	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°	3759.2	46.8
0°-40°	5754.2	71.6
0°-60°	7674.7	95.5
0°-90°	8034.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8034.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4770	4770	4770	4770	4770	
5°	4625	4762	4933	4762	4625	436
15°	4274	4639	5100	4639	4274	1209
25°	4003	4369	4721	4369	4003	1836
35°	3228	3319	3149	3319	3228	2022
45°	2273	1216	1407	1216	2273	1748
55°	1293	450	475	450	1293	1152
65°	515	137	126	137	515	534
75°	144	28	23	28	144	164
85°	30	0	2	0	30	33
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°	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5
2.5°	4720.6	4715.9	4713.6	4718.3	4720.6	4729.9	4727.6	4732.2	4732.2	4734.6	4739.2
5°	4625.2	4622.8	4625.2	4625.2	4634.5	4643.8	4641.5	4648.5	4653.1	4664.8	4669.4
7.5°	4536.7	4536.7	4534.3	4543.6	4548.3	4562.3	4559.9	4571.6	4578.6	4590.2	4606.5
10°	4445.8	4445.8	4448.1	4455.1	4457.5	4478.4	4478.4	4494.7	4504.0	4515.7	4536.7
12.5°	4357.3	4357.3	4371.3	4366.6	4375.9	4392.2	4399.2	4415.5	4429.5	4452.8	4473.8
15°	4273.5	4273.5	4278.2	4289.8	4296.8	4317.8	4329.3	4348.0	4364.3	4387.6	4417.9
17.5°	4201.3	4199.0	4201.3	4215.3	4229.3	4247.9	4257.2	4280.5	4296.8	4327.0	4355.0
20°	4129.1	4133.8	4133.8	4145.4	4154.7	4178.0	4187.3	4213.0	4231.6	4259.5	4292.2
22.5°	4066.2	4063.9	4063.9	4080.2	4087.2	4108.1	4117.4	4140.7	4161.7	4185.0	4215.3
25°	4003.3	3998.6	4008.0	4010.3	4014.9	4038.2	4045.2	4061.5	4082.5	4103.5	4133.8
27.5°	3910.2	3905.6	3907.9	3917.2	3924.2	3942.8	3947.4	3963.7	3980.0	3998.6	4024.3
30°	3730.8	3726.2	3723.9	3740.2	3747.2	3761.1	3768.1	3796.1	3800.7	3821.7	3840.3
32.5°	3493.3	3491.0	3495.7	3509.6	3516.6	3535.3	3544.6	3560.9	3572.5	3584.1	3602.7
35°	3227.8	3223.1	3227.8	3241.8	3241.8	3258.1	3265.1	3272.0	3269.7	3272.0	3267.4
37.5°	2981.0	2978.6	2981.0	2987.9	2981.0	2987.9	2981.0	2967.0	2941.4	2913.4	2885.4
40°	2771.4	2773.7	2759.8	2769.1	2743.4	2738.8	2713.2	2678.2	2627.0	2571.1	2491.9
42.5°	2547.8	2540.8	2531.5	2536.1	2515.2	2498.8	2456.9	2412.8	2347.5	2254.4	2158.8
45°	2273.0	2270.7	2266.0	2263.7	2249.7	2233.4	2198.4	2147.2	2075.0	1979.6	1865.4
47.5°	2005.2	1998.2	1998.2	2000.5	1984.2	1981.9	1953.9	1909.7	1846.8	1753.6	1634.9
50°	1748.9	1746.6	1751.3	1760.6	1748.9	1744.3	1725.7	1695.4	1639.6	1560.4	1448.5
52.5°	1518.4	1516.1	1520.8	1532.4	1527.7	1532.4	1513.8	1490.5	1453.2	1376.3	1278.6
55°	1292.6	1292.6	1292.6	1306.5	1306.5	1306.5	1297.2	1283.3	1248.3	1192.4	1101.6
57.5°	1057.3	1059.6	1073.6	1075.9	1073.6	1078.3	1075.9	1061.9	1038.7	999.1	929.3
60°	859.4	859.4	866.4	873.4	871.0	873.4	873.4	866.4	843.1	810.5	754.6
62.5°	680.0	687.0	682.3	687.0	696.3	687.0	682.3	677.7	661.4	640.4	593.8
65°	514.7	519.4	519.4	521.7	517.0	519.4	510.1	503.1	493.8	470.5	440.2
67.5°	391.3	391.3	391.3	391.3	388.9	386.6	384.3	377.3	361.0	351.7	319.0
70°	300.4	286.4	286.4	286.4	286.4	288.8	281.8	272.5	267.8	251.5	228.2
72.5°	200.2	204.9	200.2	200.2	195.6	197.9	188.6	184.0	179.4	170.1	156.1
75°	144.4	132.8	137.4	139.8	132.8	137.4	128.1	118.8	118.8	111.8	104.8
77.5°	93.2	90.9	93.2	95.5	93.2	90.9	86.2	81.5	81.5	79.2	72.2
80°	67.6	65.2	65.2	65.2	62.9	65.2	60.6	60.6	55.9	53.6	48.9
82.5°	44.3	44.3	41.9	44.3	41.9	44.3	37.3	37.3	37.3	34.9	30.3
85°	30.3	25.6	25.6	28.0	23.3	28.0	25.6	23.3	21.0	21.0	18.6
87.5°	14.0	16.3	14.0	16.3	14.0	14.0	16.3	14.0	14.0	9.3	9.3
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°	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5
2.5°	4746.2	4748.5	4748.5	4757.9	4762.5	4764.8	4764.8	4783.5	4776.5	4781.2	4785.8
5°	4678.8	4692.7	4697.3	4697.3	4722.9	4732.2	4741.5	4762.5	4764.8	4778.8	4795.1
7.5°	4613.5	4629.8	4639.2	4660.1	4676.4	4692.7	4720.6	4734.6	4748.5	4767.2	4788.1
10°	4550.6	4569.3	4587.9	4604.2	4629.8	4650.8	4669.4	4702.0	4718.3	4743.9	4771.8
12.5°	4490.1	4515.7	4532.0	4559.9	4587.9	4606.5	4634.5	4664.8	4690.4	4715.9	4748.5
15°	4436.5	4466.8	4485.4	4515.7	4546.0	4571.6	4601.9	4639.2	4657.8	4688.1	4718.3
17.5°	4378.2	4410.9	4434.2	4462.1	4499.4	4527.3	4553.0	4590.2	4613.5	4646.1	4681.1
20°	4317.8	4350.3	4378.2	4406.2	4443.5	4471.4	4501.7	4539.0	4564.6	4597.2	4625.2
22.5°	4245.6	4275.9	4306.1	4338.6	4375.9	4399.2	4434.2	4466.8	4494.7	4525.0	4553.0
25°	4152.4	4189.7	4213.0	4243.2	4273.5	4299.1	4336.3	4368.9	4392.2	4420.2	4445.8
27.5°	4042.9	4070.9	4089.5	4115.1	4145.4	4168.7	4196.6	4229.3	4252.6	4278.2	4296.8
30°	3856.6	3882.3	3898.6	3917.2	3947.4	3968.4	3991.7	4021.9	4038.2	4056.9	4073.2
32.5°	3612.0	3633.0	3642.3	3656.3	3677.3	3698.2	3716.9	3742.5	3749.5	3761.1	3761.1
35°	3258.1	3262.7	3260.4	3265.1	3274.4	3286.0	3302.3	3318.6	3327.9	3327.9	3321.0
37.5°	2843.5	2815.6	2785.4	2762.1	2755.1	2750.4	2759.8	2766.7	2776.1	2780.7	2769.1
40°	2412.8	2349.9	2282.3	2221.7	2179.8	2161.2	2154.2	2158.8	2158.8	2175.1	2175.1
42.5°	2042.5	1944.6	1844.5	1753.6	1693.1	1646.6	1625.6	1625.6	1627.9	1639.6	1646.6
45°	1735.0	1611.6	1495.1	1395.0	1311.2	1250.6	1222.7	1215.7	1213.4	1218.0	1234.3
47.5°	1499.8	1371.7	1250.6	1127.2	1038.7	978.1	952.5	943.2	933.9	943.2	945.5
50°	1315.8	1183.1	1055.0	931.6	838.4	784.8	752.2	738.2	735.9	735.9	740.6
52.5°	1148.1	1024.7	896.7	770.9	673.0	621.8	591.5	584.5	575.2	584.5	584.5
55°	989.7	866.4	740.6	621.8	540.3	486.8	458.8	449.5	444.8	451.8	451.8
57.5°	817.5	712.6	596.2	489.1	407.6	370.3	349.3	337.7	335.3	340.0	335.3
60°	670.7	582.2	482.1	384.3	321.4	281.8	265.5	260.8	256.1	260.8	260.8
62.5°	531.0	456.5	374.9	300.4	246.8	218.9	200.2	200.2	197.9	197.9	200.2
65°	393.6	335.3	277.1	214.2	172.4	151.4	137.4	137.4	135.1	137.4	135.1
67.5°	286.4	246.8	200.2	156.1	123.5	111.8	102.5	95.5	100.2	95.5	93.2
70°	209.6	177.0	144.4	118.8	95.5	83.9	76.9	74.5	69.9	69.9	69.9
72.5°	139.8	118.8	97.8	76.9	62.9	51.2	48.9	44.3	39.6	41.9	46.6
75°	93.2	79.2	69.9	55.9	41.9	41.9	28.0	28.0	23.3	28.0	21.0
77.5°	65.2	53.6	41.9	34.9	28.0	25.6	18.6	18.6	16.3	16.3	16.3
80°	46.6	39.6	30.3	25.6	18.6	18.6	16.3	14.0	11.6	11.6	14.0
82.5°	28.0	21.0	21.0	18.6	11.6	9.3	7.0	9.3	4.7	4.7	4.7
85°	16.3	14.0	11.6	7.0	4.7	4.7	2.3	0.0	2.3	2.3	0.0
87.5°	9.3	4.7	4.7	2.3	0.0	2.3	2.3	0.0	0.0	0.0	4.7
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°	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5
2.5°	4797.5	4795.1	4799.8	4799.8	4813.8	4811.4	4818.4	4818.4	4813.8	4816.1	4825.4
5°	4813.8	4820.8	4834.7	4846.4	4867.3	4876.7	4888.3	4900.0	4902.3	4909.3	4916.3
7.5°	4813.8	4837.1	4853.4	4874.3	4902.3	4918.6	4944.2	4965.2	4974.5	4986.1	5000.1
10°	4804.4	4827.7	4858.0	4881.3	4916.3	4941.9	4967.5	5000.1	5014.1	5032.7	5051.4
12.5°	4785.8	4811.4	4844.0	4874.3	4913.9	4937.2	4969.8	5000.1	5021.1	5046.7	5067.7
15°	4757.9	4788.1	4818.4	4848.7	4890.6	4918.6	4948.9	4983.8	5004.8	5032.7	5051.4
17.5°	4713.6	4746.2	4774.2	4802.1	4841.7	4874.3	4902.3	4934.9	4955.9	4979.2	5004.8
20°	4660.1	4690.4	4720.6	4743.9	4783.5	4811.4	4841.7	4872.0	4888.3	4893.0	4932.6
22.5°	4592.6	4613.5	4636.8	4674.1	4697.3	4722.9	4750.9	4778.8	4795.1	4820.8	4834.7
25°	4480.7	4501.7	4527.3	4543.6	4571.6	4592.6	4620.5	4650.8	4660.1	4678.8	4692.7
27.5°	4324.7	4336.3	4348.0	4361.9	4378.2	4389.9	4406.2	4420.2	4429.5	4438.8	4448.1
30°	4077.8	4077.8	4077.8	4068.5	4075.5	4082.5	4084.8	4082.5	4082.5	4080.2	4080.2
32.5°	3751.8	3733.2	3712.2	3693.6	3686.6	3677.3	3672.6	3665.6	3654.0	3647.0	3649.3
35°	3311.6	3269.7	3244.1	3220.8	3202.2	3188.3	3181.3	3174.3	3172.0	3162.7	3153.3
37.5°	2762.1	2731.8	2713.2	2699.2	2682.9	2668.9	2671.2	2673.6	2680.5	2675.9	2678.2
40°	2179.8	2172.8	2179.8	2163.5	2158.8	2163.5	2175.1	2191.5	2200.8	2210.1	2226.4
42.5°	1658.2	1669.8	1686.1	1686.1	1693.1	1702.4	1716.3	1742.0	1755.9	1772.2	1790.9
45°	1248.3	1262.3	1283.3	1290.2	1294.9	1306.5	1322.8	1343.7	1353.0	1367.0	1383.3
47.5°	961.8	971.1	982.7	994.4	1006.0	1010.7	1027.0	1027.0	1038.7	1048.0	1052.6
50°	749.9	759.2	768.5	775.5	780.2	787.2	791.8	798.8	801.1	805.8	808.1
52.5°	586.8	598.5	598.5	603.1	610.1	617.1	614.8	617.1	619.4	619.4	626.4
55°	458.8	458.8	465.8	465.8	470.5	468.1	470.5	470.5	470.5	470.5	472.8
57.5°	342.3	344.7	351.7	347.0	344.7	349.3	344.7	349.3	347.0	351.7	344.7
60°	263.1	263.1	265.5	265.5	267.8	267.8	267.8	265.5	265.5	263.1	263.1
62.5°	197.9	200.2	202.6	200.2	200.2	200.2	197.9	197.9	195.6	193.3	193.3
65°	132.8	130.5	135.1	130.5	132.8	132.8	130.5	132.8	125.8	128.1	125.8
67.5°	95.5	93.2	90.9	93.2	90.9	88.5	88.5	90.9	93.2	86.2	86.2
70°	62.9	65.2	62.9	65.2	67.6	67.6	65.2	62.9	65.2	60.6	62.9
72.5°	39.6	39.6	39.6	39.6	39.6	41.9	41.9	41.9	37.3	37.3	34.9
75°	18.6	25.6	21.0	18.6	25.6	25.6	23.3	23.3	21.0	21.0	21.0
77.5°	18.6	14.0	14.0	14.0	14.0	14.0	14.0	14.0	11.6	14.0	11.6
80°	9.3	9.3	9.3	7.0	9.3	9.3	11.6	9.3	9.3	7.0	11.6
82.5°	4.7	4.7	4.7	0.0	2.3	4.7	4.7	2.3	4.7	4.7	2.3
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: P248934

CATALOG NUMBER: LD8B120D010 ER8B120935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5
2.5°	4823.1	4820.8	4823.1	4825.4	4823.1	4820.8	4823.1	4825.4	4816.1	4813.8	4818.4
5°	4925.6	4925.6	4930.2	4932.6	4930.2	4925.6	4925.6	4916.3	4909.3	4902.3	4900.0
7.5°	5014.1	5018.8	5023.4	5025.7	5023.4	5018.8	5014.1	5000.1	4986.1	4974.5	4965.2
10°	5067.7	5074.6	5083.9	5088.5	5083.9	5074.6	5067.7	5051.4	5032.7	5014.1	5000.1
12.5°	5090.9	5097.9	5109.5	5107.2	5109.5	5097.9	5090.9	5067.7	5046.7	5021.1	5000.1
15°	5074.6	5083.9	5095.5	5100.2	5095.5	5083.9	5074.6	5051.4	5032.7	5004.8	4983.8
17.5°	5023.4	5037.4	5044.4	5051.4	5044.4	5037.4	5023.4	5004.8	4979.2	4955.9	4934.9
20°	4953.5	4962.9	4972.2	4974.5	4972.2	4962.9	4953.5	4932.6	4893.0	4888.3	4872.0
22.5°	4853.4	4860.4	4881.3	4874.3	4881.3	4860.4	4853.4	4834.7	4820.8	4795.1	4778.8
25°	4708.9	4715.9	4718.3	4720.6	4718.3	4715.9	4708.9	4692.7	4678.8	4660.1	4650.8
27.5°	4459.8	4459.8	4464.4	4466.8	4464.4	4459.8	4459.8	4448.1	4438.8	4429.5	4420.2
30°	4082.5	4082.5	4082.5	4094.2	4082.5	4082.5	4082.5	4080.2	4080.2	4082.5	4082.5
32.5°	3647.0	3642.3	3637.7	3642.3	3637.7	3642.3	3647.0	3649.3	3647.0	3654.0	3665.6
35°	3153.3	3151.0	3158.0	3148.7	3158.0	3151.0	3153.3	3153.3	3162.7	3172.0	3174.3
37.5°	2680.5	2675.9	2685.2	2675.9	2685.2	2675.9	2680.5	2678.2	2675.9	2680.5	2673.6
40°	2231.1	2235.7	2235.7	2254.4	2235.7	2235.7	2231.1	2226.4	2210.1	2200.8	2191.5
42.5°	1800.2	1814.2	1809.5	1823.5	1809.5	1814.2	1800.2	1790.9	1772.2	1755.9	1742.0
45°	1392.6	1402.0	1402.0	1406.6	1402.0	1402.0	1392.6	1383.3	1367.0	1353.0	1343.7
47.5°	1068.9	1068.9	1068.9	1071.3	1068.9	1068.9	1068.9	1052.6	1048.0	1038.7	1027.0
50°	812.8	815.1	817.5	819.8	817.5	815.1	812.8	808.1	805.8	801.1	798.8
52.5°	624.1	626.4	621.8	626.4	621.8	626.4	624.1	626.4	619.4	619.4	617.1
55°	472.8	470.5	472.8	475.1	472.8	470.5	472.8	472.8	470.5	470.5	470.5
57.5°	347.0	342.3	342.3	342.3	342.3	342.3	347.0	344.7	351.7	347.0	349.3
60°	258.5	260.8	260.8	263.1	260.8	260.8	258.5	263.1	263.1	265.5	265.5
62.5°	190.9	197.9	193.3	197.9	193.3	197.9	190.9	193.3	193.3	195.6	197.9
65°	123.5	123.5	123.5	125.8	123.5	123.5	123.5	125.8	128.1	125.8	132.8
67.5°	83.9	86.2	90.9	88.5	90.9	86.2	83.9	86.2	86.2	93.2	90.9
70°	67.6	60.6	60.6	67.6	60.6	60.6	67.6	62.9	60.6	65.2	62.9
72.5°	39.6	34.9	39.6	39.6	39.6	34.9	39.6	34.9	37.3	37.3	41.9
75°	21.0	18.6	16.3	23.3	16.3	18.6	21.0	21.0	21.0	21.0	23.3
77.5°	14.0	11.6	16.3	16.3	16.3	11.6	14.0	11.6	14.0	11.6	14.0
80°	7.0	9.3	7.0	11.6	7.0	9.3	7.0	11.6	7.0	9.3	9.3
82.5°	2.3	4.7	4.7	4.7	4.7	4.7	2.3	2.3	4.7	4.7	2.3
85°	0.0	4.7	2.3	2.3	2.3	4.7	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	0.0	0.0	2.3	0.0	0.0	2.3	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: P248934

CATALOG NUMBER: LD8B120D010 ER8B120935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5
2.5°	4818.4	4811.4	4813.8	4799.8	4799.8	4795.1	4797.5	4785.8	4781.2	4776.5	4783.5
5°	4888.3	4876.7	4867.3	4846.4	4834.7	4820.8	4813.8	4795.1	4778.8	4764.8	4762.5
7.5°	4944.2	4918.6	4902.3	4874.3	4853.4	4837.1	4813.8	4788.1	4767.2	4748.5	4734.6
10°	4967.5	4941.9	4916.3	4881.3	4858.0	4827.7	4804.4	4771.8	4743.9	4718.3	4702.0
12.5°	4969.8	4937.2	4913.9	4874.3	4844.0	4811.4	4785.8	4748.5	4715.9	4690.4	4664.8
15°	4948.9	4918.6	4890.6	4848.7	4818.4	4788.1	4757.9	4718.3	4688.1	4657.8	4639.2
17.5°	4902.3	4874.3	4841.7	4802.1	4774.2	4746.2	4713.6	4681.1	4646.1	4613.5	4590.2
20°	4841.7	4811.4	4783.5	4743.9	4720.6	4690.4	4660.1	4625.2	4597.2	4564.6	4539.0
22.5°	4750.9	4722.9	4697.3	4674.1	4636.8	4613.5	4592.6	4553.0	4525.0	4494.7	4466.8
25°	4620.5	4592.6	4571.6	4543.6	4527.3	4501.7	4480.7	4445.8	4420.2	4392.2	4368.9
27.5°	4406.2	4389.9	4378.2	4361.9	4348.0	4336.3	4324.7	4296.8	4278.2	4252.6	4229.3
30°	4084.8	4082.5	4075.5	4068.5	4077.8	4077.8	4077.8	4073.2	4056.9	4038.2	4021.9
32.5°	3672.6	3677.3	3686.6	3693.6	3712.2	3733.2	3751.8	3761.1	3761.1	3749.5	3742.5
35°	3181.3	3188.3	3202.2	3220.8	3244.1	3269.7	3311.6	3321.0	3327.9	3327.9	3318.6
37.5°	2671.2	2668.9	2682.9	2699.2	2713.2	2731.8	2762.1	2769.1	2780.7	2776.1	2766.7
40°	2175.1	2163.5	2158.8	2163.5	2179.8	2172.8	2179.8	2175.1	2175.1	2158.8	2158.8
42.5°	1716.3	1702.4	1693.1	1686.1	1686.1	1669.8	1658.2	1646.6	1639.6	1627.9	1625.6
45°	1322.8	1306.5	1294.9	1290.2	1283.3	1262.3	1248.3	1234.3	1218.0	1213.4	1215.7
47.5°	1027.0	1010.7	1006.0	994.4	982.7	971.1	961.8	945.5	943.2	933.9	943.2
50°	791.8	787.2	780.2	775.5	768.5	759.2	749.9	740.6	735.9	735.9	738.2
52.5°	614.8	617.1	610.1	603.1	598.5	598.5	586.8	584.5	584.5	575.2	584.5
55°	470.5	468.1	470.5	465.8	465.8	458.8	458.8	451.8	451.8	444.8	449.5
57.5°	344.7	349.3	344.7	347.0	351.7	344.7	342.3	335.3	340.0	335.3	337.7
60°	267.8	267.8	267.8	265.5	265.5	263.1	263.1	260.8	260.8	256.1	260.8
62.5°	197.9	200.2	200.2	200.2	202.6	200.2	197.9	200.2	197.9	197.9	200.2
65°	130.5	132.8	132.8	130.5	135.1	130.5	132.8	135.1	137.4	135.1	137.4
67.5°	88.5	88.5	90.9	93.2	90.9	93.2	95.5	93.2	95.5	100.2	95.5
70°	65.2	67.6	67.6	65.2	62.9	65.2	62.9	69.9	69.9	69.9	74.5
72.5°	41.9	41.9	39.6	39.6	39.6	39.6	39.6	46.6	41.9	39.6	44.3
75°	23.3	25.6	25.6	18.6	21.0	25.6	18.6	21.0	28.0	23.3	28.0
77.5°	14.0	14.0	14.0	14.0	14.0	14.0	18.6	16.3	16.3	16.3	18.6
80°	11.6	9.3	9.3	7.0	9.3	9.3	9.3	14.0	11.6	11.6	14.0
82.5°	4.7	4.7	2.3	0.0	4.7	4.7	4.7	4.7	4.7	4.7	9.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	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: P248934

CATALOG NUMBER: LD8B120D010 ER8B120935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5
2.5°	4764.8	4764.8	4762.5	4757.9	4748.5	4748.5	4746.2	4739.2	4734.6	4732.2	4732.2
5°	4741.5	4732.2	4722.9	4697.3	4697.3	4692.7	4678.8	4669.4	4664.8	4653.1	4648.5
7.5°	4720.6	4692.7	4676.4	4660.1	4639.2	4629.8	4613.5	4606.5	4590.2	4578.6	4571.6
10°	4669.4	4650.8	4629.8	4604.2	4587.9	4569.3	4550.6	4536.7	4515.7	4504.0	4494.7
12.5°	4634.5	4606.5	4587.9	4559.9	4532.0	4515.7	4490.1	4473.8	4452.8	4429.5	4415.5
15°	4601.9	4571.6	4546.0	4515.7	4485.4	4466.8	4436.5	4417.9	4387.6	4364.3	4348.0
17.5°	4553.0	4527.3	4499.4	4462.1	4434.2	4410.9	4378.2	4355.0	4327.0	4296.8	4280.5
20°	4501.7	4471.4	4443.5	4406.2	4378.2	4350.3	4317.8	4292.2	4259.5	4231.6	4213.0
22.5°	4434.2	4399.2	4375.9	4338.6	4306.1	4275.9	4245.6	4215.3	4185.0	4161.7	4140.7
25°	4336.3	4299.1	4273.5	4243.2	4213.0	4189.7	4152.4	4133.8	4103.5	4082.5	4061.5
27.5°	4196.6	4168.7	4145.4	4115.1	4089.5	4070.9	4042.9	4024.3	3998.6	3980.0	3963.7
30°	3991.7	3968.4	3947.4	3917.2	3898.6	3882.3	3856.6	3840.3	3821.7	3800.7	3796.1
32.5°	3716.9	3698.2	3677.3	3656.3	3642.3	3633.0	3612.0	3602.7	3584.1	3572.5	3560.9
35°	3302.3	3286.0	3274.4	3265.1	3260.4	3262.7	3258.1	3267.4	3272.0	3269.7	3272.0
37.5°	2759.8	2750.4	2755.1	2762.1	2785.4	2815.6	2843.5	2885.4	2913.4	2941.4	2967.0
40°	2154.2	2161.2	2179.8	2221.7	2282.3	2349.9	2412.8	2491.9	2571.1	2627.0	2678.2
42.5°	1625.6	1646.6	1693.1	1753.6	1844.5	1944.6	2042.5	2158.8	2254.4	2347.5	2412.8
45°	1222.7	1250.6	1311.2	1395.0	1495.1	1611.6	1735.0	1865.4	1979.6	2075.0	2147.2
47.5°	952.5	978.1	1038.7	1127.2	1250.6	1371.7	1499.8	1634.9	1753.6	1846.8	1909.7
50°	752.2	784.8	838.4	931.6	1055.0	1183.1	1315.8	1448.5	1560.4	1639.6	1695.4
52.5°	591.5	621.8	673.0	770.9	896.7	1024.7	1148.1	1278.6	1376.3	1453.2	1490.5
55°	458.8	486.8	540.3	621.8	740.6	866.4	989.7	1101.6	1192.4	1248.3	1283.3
57.5°	349.3	370.3	407.6	489.1	596.2	712.6	817.5	929.3	999.1	1038.7	1061.9
60°	265.5	281.8	321.4	384.3	482.1	582.2	670.7	754.6	810.5	843.1	866.4
62.5°	200.2	218.9	246.8	300.4	374.9	456.5	531.0	593.8	640.4	661.4	677.7
65°	137.4	151.4	172.4	214.2	277.1	335.3	393.6	440.2	470.5	493.8	503.1
67.5°	102.5	111.8	123.5	156.1	200.2	246.8	286.4	319.0	351.7	361.0	377.3
70°	76.9	83.9	95.5	118.8	144.4	177.0	209.6	228.2	251.5	267.8	272.5
72.5°	48.9	51.2	62.9	76.9	97.8	118.8	139.8	156.1	170.1	179.4	184.0
75°	28.0	41.9	41.9	55.9	69.9	79.2	93.2	104.8	111.8	118.8	118.8
77.5°	18.6	25.6	28.0	34.9	41.9	53.6	65.2	72.2	79.2	81.5	81.5
80°	16.3	18.6	18.6	25.6	30.3	39.6	46.6	48.9	53.6	55.9	60.6
82.5°	7.0	9.3	11.6	18.6	21.0	21.0	28.0	30.3	34.9	37.3	37.3
85°	2.3	4.7	4.7	7.0	11.6	14.0	16.3	18.6	21.0	21.0	23.3
87.5°	2.3	2.3	0.0	2.3	4.7	4.7	9.3	9.3	9.3	14.0	14.0
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: P248934

CATALOG NUMBER: LD8B120D010 ER8B120935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5
2.5°	4727.6	4729.9	4720.6	4718.3	4713.6	4715.9	4720.6
5°	4641.5	4643.8	4634.5	4625.2	4625.2	4622.8	4625.2
7.5°	4559.9	4562.3	4548.3	4543.6	4534.3	4536.7	4536.7
10°	4478.4	4478.4	4457.5	4455.1	4448.1	4445.8	4445.8
12.5°	4399.2	4392.2	4375.9	4366.6	4371.3	4357.3	4357.3
15°	4329.3	4317.8	4296.8	4289.8	4278.2	4273.5	4273.5
17.5°	4257.2	4247.9	4229.3	4215.3	4201.3	4199.0	4201.3
20°	4187.3	4178.0	4154.7	4145.4	4133.8	4133.8	4129.1
22.5°	4117.4	4108.1	4087.2	4080.2	4063.9	4063.9	4066.2
25°	4045.2	4038.2	4014.9	4010.3	4008.0	3998.6	4003.3
27.5°	3947.4	3942.8	3924.2	3917.2	3907.9	3905.6	3910.2
30°	3768.1	3761.1	3747.2	3740.2	3723.9	3726.2	3730.8
32.5°	3544.6	3535.3	3516.6	3509.6	3495.7	3491.0	3493.3
35°	3265.1	3258.1	3241.8	3241.8	3227.8	3223.1	3227.8
37.5°	2981.0	2987.9	2981.0	2987.9	2981.0	2978.6	2981.0
40°	2713.2	2738.8	2743.4	2769.1	2759.8	2773.7	2771.4
42.5°	2456.9	2498.8	2515.2	2536.1	2531.5	2540.8	2547.8
45°	2198.4	2233.4	2249.7	2263.7	2266.0	2270.7	2273.0
47.5°	1953.9	1981.9	1984.2	2000.5	1998.2	1998.2	2005.2
50°	1725.7	1744.3	1748.9	1760.6	1751.3	1746.6	1748.9
52.5°	1513.8	1532.4	1527.7	1532.4	1520.8	1516.1	1518.4
55°	1297.2	1306.5	1306.5	1306.5	1292.6	1292.6	1292.6
57.5°	1075.9	1078.3	1073.6	1075.9	1073.6	1059.6	1057.3
60°	873.4	873.4	871.0	873.4	866.4	859.4	859.4
62.5°	682.3	687.0	696.3	687.0	682.3	687.0	680.0
65°	510.1	519.4	517.0	521.7	519.4	519.4	514.7
67.5°	384.3	386.6	388.9	391.3	391.3	391.3	391.3
70°	281.8	288.8	286.4	286.4	286.4	286.4	300.4
72.5°	188.6	197.9	195.6	200.2	200.2	204.9	200.2
75°	128.1	137.4	132.8	139.8	137.4	132.8	144.4
77.5°	86.2	90.9	93.2	95.5	93.2	90.9	93.2
80°	60.6	65.2	62.9	65.2	65.2	65.2	67.6
82.5°	37.3	44.3	41.9	44.3	41.9	44.3	44.3
85°	25.6	28.0	23.3	28.0	25.6	25.6	30.3
87.5°	16.3	14.0	14.0	16.3	14.0	16.3	14.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)