

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: P248888

Luminaire Tested: **LD8B100D010 ER8B100835 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248888
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: LD8B100D010 ER8B100835 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8311.0 lumens
Efficiency: N/A
Efficacy: 78.2 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

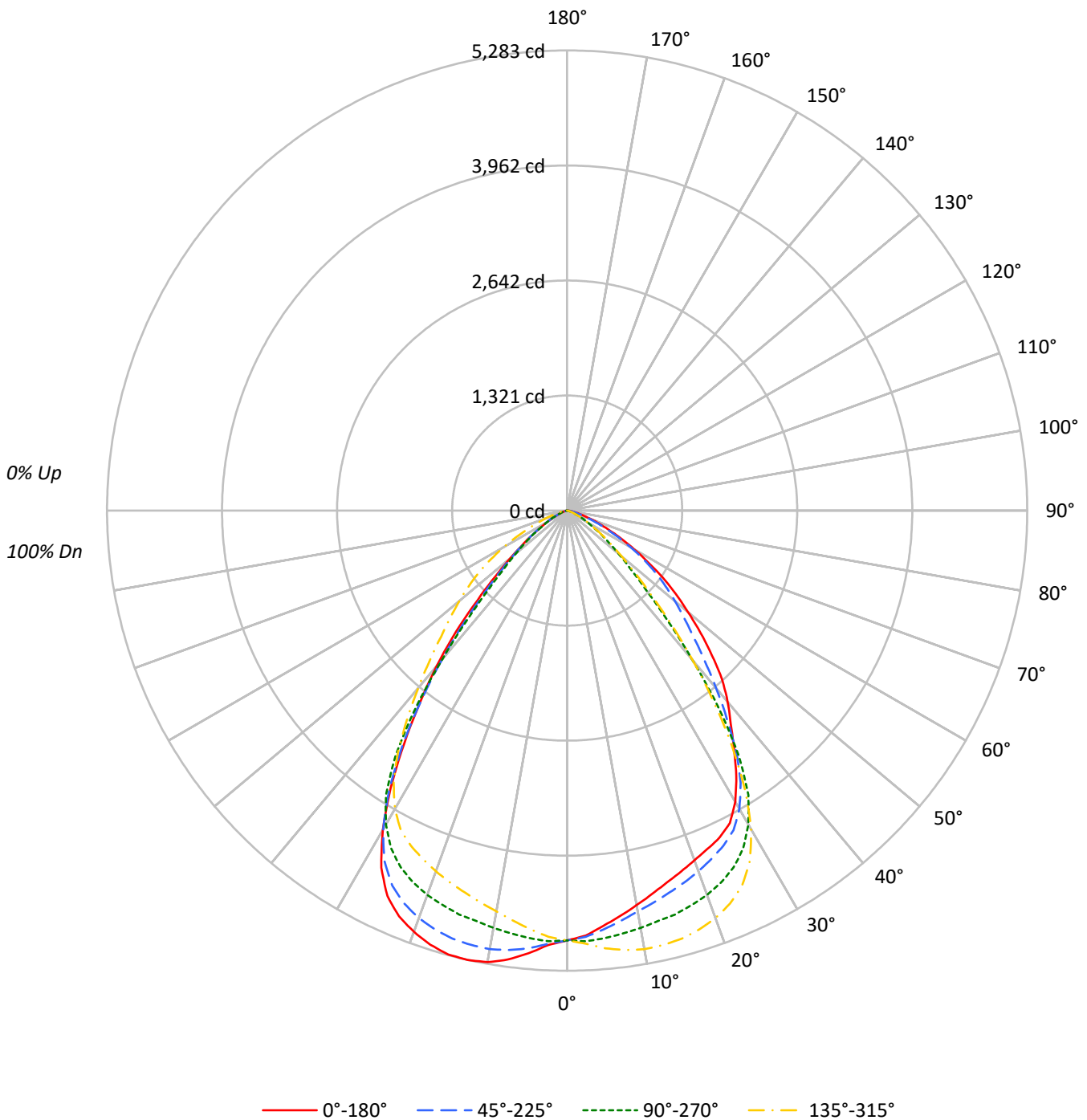
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	152146	152146	152146	152146
5°	148103	152502	157950	152502
10°	144007	152305	164826	152305
15°	141130	153207	168435	153207
20°	140171	154084	168868	154084
25°	140907	153775	166153	153775
30°	137421	148145	150809	148145
35°	125698	129233	122615	129233
40°	115404	89899	93876	89899
45°	102543	54843	63456	54843
50°	86792	36637	40681	36637
55°	71884	24999	26424	24999
60°	54827	16639	16787	16639
65°	38847	10368	9493	10368
70°	28022	6951	6302	6951
75°	17788	3455	2871	3455
80°	12413	2575	2131	2575
85°	11074	0	849	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.6	5.7
10°-20°	1359.9	16.4
20°-30°	2059.2	24.8
30°-40°	2063.9	24.8
40°-50°	1296.0	15.6
50°-60°	690.6	8.3
60°-70°	284.0	3.4
70°-80°	75.0	0.9
80°-90°	12.7	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°	3888.8	46.8
0°-40°	5952.6	71.6
0°-60°	7939.3	95.5
0°-90°	8311.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8311.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4934	4934	4934	4934	4934	
5°	4785	4927	5103	4927	4785	451
15°	4421	4799	5276	4799	4421	1250
25°	4141	4520	4883	4520	4141	1899
35°	3339	3433	3257	3433	3339	2092
45°	2351	1258	1455	1258	2351	1808
55°	1337	465	492	465	1337	1192
65°	532	142	130	142	532	552
75°	149	29	24	29	149	169
85°	31	0	2	0	31	34
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°	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0
2.5°	4883.4	4878.5	4876.2	4881.0	4883.4	4893.0	4890.6	4895.4	4895.4	4897.9	4902.6
5°	4784.6	4782.2	4784.6	4784.6	4794.3	4803.9	4801.5	4808.7	4813.5	4825.6	4830.4
7.5°	4693.1	4693.1	4690.6	4700.2	4705.1	4719.6	4717.1	4729.2	4736.4	4748.4	4765.3
10°	4599.1	4599.1	4601.5	4608.7	4611.2	4632.8	4632.8	4649.7	4659.3	4671.4	4693.1
12.5°	4507.6	4507.6	4522.1	4517.2	4526.8	4543.7	4550.9	4567.8	4582.2	4606.3	4628.1
15°	4420.8	4420.8	4425.7	4437.7	4444.9	4466.6	4478.6	4498.0	4514.8	4538.9	4570.2
17.5°	4346.1	4343.8	4346.1	4360.6	4375.1	4394.3	4403.9	4428.0	4444.9	4476.2	4505.2
20°	4271.5	4276.3	4276.3	4288.3	4297.9	4322.0	4331.7	4358.2	4377.5	4406.3	4440.1
22.5°	4206.4	4204.0	4204.0	4220.9	4228.1	4249.7	4259.4	4283.5	4305.2	4329.3	4360.6
25°	4141.4	4136.5	4146.2	4148.6	4153.4	4177.5	4184.7	4201.6	4223.3	4245.0	4276.3
27.5°	4045.0	4040.2	4042.6	4052.2	4059.5	4078.7	4083.6	4100.4	4117.3	4136.5	4163.1
30°	3859.4	3854.7	3852.3	3869.2	3876.4	3890.8	3898.0	3927.0	3931.7	3953.4	3972.7
32.5°	3613.7	3611.3	3616.2	3630.6	3637.8	3657.1	3666.8	3683.6	3695.6	3707.7	3727.0
35°	3339.1	3334.3	3339.1	3353.6	3353.6	3370.5	3377.7	3384.8	3382.5	3384.8	3380.1
37.5°	3083.8	3081.3	3083.8	3090.9	3083.8	3090.9	3083.8	3069.3	3042.8	3013.9	2984.9
40°	2866.9	2869.3	2854.9	2864.5	2838.0	2833.2	2806.7	2770.5	2717.6	2659.8	2577.9
42.5°	2635.7	2628.4	2618.8	2623.6	2602.0	2585.0	2541.7	2495.9	2428.4	2332.1	2233.3
45°	2351.4	2349.0	2344.1	2341.7	2327.3	2310.4	2274.2	2221.3	2146.6	2047.8	1929.7
47.5°	2074.3	2067.1	2067.1	2069.4	2052.6	2050.2	2021.2	1975.5	1910.5	1814.1	1691.2
50°	1809.2	1806.9	1811.7	1821.3	1809.2	1804.5	1785.2	1753.9	1696.1	1614.2	1498.5
52.5°	1570.7	1568.4	1573.2	1585.2	1580.4	1585.2	1566.0	1541.9	1503.3	1423.8	1322.6
55°	1337.1	1337.1	1337.1	1351.5	1351.5	1351.5	1341.9	1327.5	1291.3	1233.5	1139.6
57.5°	1093.8	1096.2	1110.6	1113.0	1110.6	1115.5	1113.0	1098.5	1074.5	1033.6	961.3
60°	889.0	889.0	896.2	903.5	901.0	903.5	903.5	896.2	872.1	838.4	780.6
62.5°	703.5	710.7	705.8	710.7	720.3	710.7	705.8	701.1	684.2	662.5	614.3
65°	532.4	537.3	537.3	539.6	534.8	537.3	527.6	520.4	510.8	486.7	455.4
67.5°	404.8	404.8	404.8	404.8	402.3	399.9	397.5	390.3	373.4	363.8	330.0
70°	310.8	296.3	296.3	296.3	296.3	298.8	291.5	281.9	277.1	260.2	236.1
72.5°	207.2	212.0	207.2	207.2	202.4	204.8	195.2	190.3	185.5	175.9	161.4
75°	149.3	137.3	142.1	144.6	137.3	142.1	132.5	122.9	122.9	115.6	108.4
77.5°	96.4	94.0	96.4	98.8	96.4	94.0	89.1	84.3	84.3	81.9	74.7
80°	69.9	67.4	67.4	67.4	65.1	67.4	62.7	62.7	57.8	55.4	50.6
82.5°	45.8	45.8	43.3	45.8	43.3	45.8	38.6	38.6	38.6	36.1	31.3
85°	31.3	26.5	26.5	29.0	24.1	29.0	26.5	24.1	21.7	21.7	19.2
87.5°	14.5	16.9	14.5	16.9	14.5	14.5	16.9	14.5	14.5	9.6	9.6
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°	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0
2.5°	4909.9	4912.3	4912.3	4922.0	4926.7	4929.1	4929.1	4948.5	4941.2	4946.1	4950.8
5°	4840.1	4854.4	4859.3	4859.3	4885.8	4895.4	4905.0	4926.7	4929.1	4943.6	4960.5
7.5°	4772.5	4789.4	4799.1	4820.7	4837.6	4854.4	4883.4	4897.9	4912.3	4931.6	4953.2
10°	4707.5	4726.8	4746.1	4762.9	4789.4	4811.1	4830.4	4864.1	4881.0	4907.5	4936.4
12.5°	4644.9	4671.4	4688.3	4717.1	4746.1	4765.3	4794.3	4825.6	4852.1	4878.5	4912.3
15°	4589.5	4620.8	4640.1	4671.4	4702.7	4729.2	4760.5	4799.1	4818.4	4849.7	4881.0
17.5°	4529.2	4563.0	4587.1	4616.0	4654.5	4683.4	4710.0	4748.4	4772.5	4806.3	4842.4
20°	4466.6	4500.3	4529.2	4558.1	4596.7	4625.6	4656.9	4695.5	4722.0	4755.7	4784.6
22.5°	4391.9	4423.3	4454.5	4488.2	4526.8	4550.9	4587.1	4620.8	4649.7	4681.0	4710.0
25°	4295.6	4334.1	4358.2	4389.5	4420.8	4447.3	4485.9	4519.6	4543.7	4572.6	4599.1
27.5°	4182.3	4211.3	4230.5	4257.0	4288.3	4312.4	4341.3	4375.1	4399.2	4425.7	4444.9
30°	3989.5	4016.1	4033.0	4052.2	4083.6	4105.3	4129.4	4160.6	4177.5	4196.8	4213.7
32.5°	3736.6	3758.3	3767.9	3782.4	3804.1	3825.7	3845.1	3871.5	3878.8	3890.8	3890.8
35°	3370.5	3375.2	3372.8	3377.7	3387.3	3399.3	3416.2	3433.0	3442.7	3442.7	3435.5
37.5°	2941.6	2912.7	2881.4	2857.3	2850.1	2845.2	2854.9	2862.1	2871.8	2876.5	2864.5
40°	2495.9	2430.9	2361.0	2298.3	2255.0	2235.7	2228.5	2233.3	2233.3	2250.1	2250.1
42.5°	2112.9	2011.6	1908.1	1814.1	1751.4	1703.3	1681.6	1681.6	1684.0	1696.1	1703.3
45°	1794.9	1667.1	1546.7	1443.1	1356.4	1293.7	1264.8	1257.6	1255.2	1260.0	1276.8
47.5°	1551.5	1419.0	1293.7	1166.1	1074.5	1011.9	985.4	975.7	966.1	975.7	978.1
50°	1361.2	1223.9	1091.4	963.7	867.3	811.9	778.1	763.7	761.3	761.3	766.1
52.5°	1187.7	1060.1	927.6	797.5	696.2	643.3	611.9	604.7	595.1	604.7	604.7
55°	1023.9	896.2	766.1	643.3	558.9	503.6	474.6	465.0	460.1	467.4	467.4
57.5°	845.7	737.2	616.8	505.9	421.6	383.1	361.4	349.4	346.9	351.7	346.9
60°	693.8	602.3	498.7	397.5	332.5	291.5	274.7	269.8	265.0	269.8	269.8
62.5°	549.3	472.2	387.8	310.8	255.3	226.5	207.2	207.2	204.8	204.8	207.2
65°	407.2	346.9	286.7	221.6	178.3	156.6	142.1	142.1	139.7	142.1	139.7
67.5°	296.3	255.3	207.2	161.4	127.7	115.6	106.0	98.8	103.6	98.8	96.4
70°	216.9	183.1	149.3	122.9	98.8	86.8	79.5	77.1	72.3	72.3	72.3
72.5°	144.6	122.9	101.1	79.5	65.1	53.0	50.6	45.8	41.0	43.3	48.2
75°	96.4	81.9	72.3	57.8	43.3	43.3	29.0	29.0	24.1	29.0	21.7
77.5°	67.4	55.4	43.3	36.1	29.0	26.5	19.2	19.2	16.9	16.9	16.9
80°	48.2	41.0	31.3	26.5	19.2	19.2	16.9	14.5	12.0	12.0	14.5
82.5°	29.0	21.7	21.7	19.2	12.0	9.6	7.2	9.6	4.9	4.9	4.9
85°	16.9	14.5	12.0	7.2	4.9	4.9	2.4	0.0	2.4	2.4	0.0
87.5°	9.6	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°	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0
2.5°	4962.9	4960.5	4965.3	4965.3	4979.8	4977.3	4984.6	4984.6	4979.8	4982.2	4991.8
5°	4979.8	4987.0	5001.4	5013.5	5035.1	5044.8	5056.8	5068.9	5071.3	5078.6	5085.8
7.5°	4979.8	5003.9	5020.7	5042.4	5071.3	5088.2	5114.7	5136.4	5146.0	5158.0	5172.5
10°	4970.1	4994.2	5025.5	5049.6	5085.8	5112.3	5138.8	5172.5	5186.9	5206.2	5225.5
12.5°	4950.8	4977.3	5011.0	5042.4	5083.3	5107.4	5141.1	5172.5	5194.2	5220.7	5242.4
15°	4922.0	4953.2	4984.6	5015.9	5059.2	5088.2	5119.5	5155.6	5177.3	5206.2	5225.5
17.5°	4876.2	4909.9	4938.8	4967.7	5008.6	5042.4	5071.3	5105.0	5126.8	5150.8	5177.3
20°	4820.7	4852.1	4883.4	4907.5	4948.5	4977.3	5008.6	5040.0	5056.8	5061.7	5102.7
22.5°	4750.9	4772.5	4796.6	4835.2	4859.3	4885.8	4914.7	4943.6	4960.5	4987.0	5001.4
25°	4635.2	4656.9	4683.4	4700.2	4729.2	4750.9	4779.8	4811.1	4820.7	4840.1	4854.4
27.5°	4473.9	4485.9	4498.0	4512.3	4529.2	4541.3	4558.1	4572.6	4582.2	4591.9	4601.5
30°	4218.4	4218.4	4218.4	4208.8	4216.0	4223.3	4225.7	4223.3	4223.3	4220.9	4220.9
32.5°	3881.2	3861.9	3840.2	3821.0	3813.7	3804.1	3799.2	3792.0	3780.0	3772.8	3775.2
35°	3425.8	3382.5	3356.0	3331.9	3312.7	3298.2	3290.9	3283.7	3281.3	3271.7	3262.0
37.5°	2857.3	2826.0	2806.7	2792.2	2775.4	2760.9	2763.3	2765.8	2772.9	2768.1	2770.5
40°	2255.0	2247.7	2255.0	2238.1	2233.3	2238.1	2250.1	2267.1	2276.7	2286.3	2303.2
42.5°	1715.3	1727.3	1744.3	1744.3	1751.4	1761.1	1775.5	1802.1	1816.5	1833.3	1852.7
45°	1291.3	1305.8	1327.5	1334.6	1339.5	1351.5	1368.5	1390.1	1399.7	1414.2	1431.0
47.5°	995.0	1004.6	1016.6	1028.7	1040.7	1045.6	1062.4	1062.4	1074.5	1084.2	1088.9
50°	775.8	785.4	795.0	802.2	807.1	814.3	819.1	826.3	828.7	833.6	835.9
52.5°	607.1	619.2	619.2	623.9	631.2	638.4	636.0	638.4	640.8	640.8	648.0
55°	474.6	474.6	481.8	481.8	486.7	484.2	486.7	486.7	486.7	486.7	489.1
57.5°	354.1	356.6	363.8	359.0	356.6	361.4	356.6	361.4	359.0	363.8	356.6
60°	272.2	272.2	274.7	274.7	277.1	277.1	277.1	274.7	274.7	272.2	272.2
62.5°	204.8	207.2	209.6	207.2	207.2	207.2	204.8	204.8	202.4	199.9	199.9
65°	137.3	135.0	139.7	135.0	137.3	137.3	135.0	137.3	130.1	132.5	130.1
67.5°	98.8	96.4	94.0	96.4	94.0	91.5	91.5	94.0	96.4	89.1	89.1
70°	65.1	67.4	65.1	67.4	69.9	69.9	67.4	65.1	67.4	62.7	65.1
72.5°	41.0	41.0	41.0	41.0	41.0	43.3	43.3	43.3	38.6	38.6	36.1
75°	19.2	26.5	21.7	19.2	26.5	26.5	24.1	24.1	21.7	21.7	21.7
77.5°	19.2	14.5	14.5	14.5	14.5	14.5	14.5	14.5	12.0	14.5	12.0
80°	9.6	9.6	9.6	7.2	9.6	9.6	12.0	9.6	9.6	7.2	12.0
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: P248888

CATALOG NUMBER: LD8B100D010 ER8B100835 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0
2.5°	4989.4	4987.0	4989.4	4991.8	4989.4	4987.0	4989.4	4991.8	4982.2	4979.8	4984.6
5°	5095.4	5095.4	5100.2	5102.7	5100.2	5095.4	5095.4	5085.8	5078.6	5071.3	5068.9
7.5°	5186.9	5191.8	5196.6	5198.9	5196.6	5191.8	5186.9	5172.5	5158.0	5146.0	5136.4
10°	5242.4	5249.6	5259.2	5264.0	5259.2	5249.6	5242.4	5225.5	5206.2	5186.9	5172.5
12.5°	5266.5	5273.7	5285.7	5283.3	5285.7	5273.7	5266.5	5242.4	5220.7	5194.2	5172.5
15°	5249.6	5259.2	5271.2	5276.1	5271.2	5259.2	5249.6	5225.5	5206.2	5177.3	5155.6
17.5°	5196.6	5211.0	5218.3	5225.5	5218.3	5211.0	5196.6	5177.3	5150.8	5126.8	5105.0
20°	5124.3	5134.0	5143.6	5146.0	5143.6	5134.0	5124.3	5102.7	5061.7	5056.8	5040.0
22.5°	5020.7	5028.0	5049.6	5042.4	5049.6	5028.0	5020.7	5001.4	4987.0	4960.5	4943.6
25°	4871.3	4878.5	4881.0	4883.4	4881.0	4878.5	4871.3	4854.4	4840.1	4820.7	4811.1
27.5°	4613.6	4613.6	4618.3	4620.8	4618.3	4613.6	4613.6	4601.5	4591.9	4582.2	4572.6
30°	4223.3	4223.3	4223.3	4235.4	4223.3	4223.3	4223.3	4220.9	4220.9	4223.3	4223.3
32.5°	3772.8	3767.9	3763.2	3767.9	3763.2	3767.9	3772.8	3775.2	3772.8	3780.0	3792.0
35°	3262.0	3259.6	3266.8	3257.2	3266.8	3259.6	3262.0	3262.0	3271.7	3281.3	3283.7
37.5°	2772.9	2768.1	2777.8	2768.1	2777.8	2768.1	2772.9	2770.5	2768.1	2772.9	2765.8
40°	2308.0	2312.8	2312.8	2332.1	2312.8	2312.8	2308.0	2303.2	2286.3	2276.7	2267.1
42.5°	1862.3	1876.8	1871.9	1886.4	1871.9	1876.8	1862.3	1852.7	1833.3	1816.5	1802.1
45°	1440.6	1450.4	1450.4	1455.1	1450.4	1450.4	1440.6	1431.0	1414.2	1399.7	1390.1
47.5°	1105.8	1105.8	1105.8	1108.3	1105.8	1105.8	1105.8	1088.9	1084.2	1074.5	1062.4
50°	840.8	843.2	845.7	848.0	845.7	843.2	840.8	835.9	833.6	828.7	826.3
52.5°	645.7	648.0	643.3	648.0	643.3	648.0	645.7	648.0	640.8	640.8	638.4
55°	489.1	486.7	489.1	491.5	489.1	486.7	489.1	489.1	486.7	486.7	486.7
57.5°	359.0	354.1	354.1	354.1	354.1	354.1	359.0	356.6	363.8	359.0	361.4
60°	267.4	269.8	269.8	272.2	269.8	269.8	267.4	272.2	272.2	274.7	274.7
62.5°	197.5	204.8	199.9	204.8	199.9	204.8	197.5	199.9	199.9	202.4	204.8
65°	127.7	127.7	127.7	130.1	127.7	127.7	127.7	130.1	132.5	130.1	137.3
67.5°	86.8	89.1	94.0	91.5	94.0	89.1	86.8	89.1	89.1	96.4	94.0
70°	69.9	62.7	62.7	69.9	62.7	62.7	69.9	65.1	62.7	67.4	65.1
72.5°	41.0	36.1	41.0	41.0	41.0	36.1	41.0	36.1	38.6	38.6	43.3
75°	21.7	19.2	16.9	24.1	16.9	19.2	21.7	21.7	21.7	21.7	24.1
77.5°	14.5	12.0	16.9	16.9	16.9	12.0	14.5	12.0	14.5	12.0	14.5
80°	7.2	9.6	7.2	12.0	7.2	9.6	7.2	12.0	7.2	9.6	9.6
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: P248888

CATALOG NUMBER: LD8B100D010 ER8B100835 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0
2.5°	4984.6	4977.3	4979.8	4965.3	4965.3	4960.5	4962.9	4950.8	4946.1	4941.2	4948.5
5°	5056.8	5044.8	5035.1	5013.5	5001.4	4987.0	4979.8	4960.5	4943.6	4929.1	4926.7
7.5°	5114.7	5088.2	5071.3	5042.4	5020.7	5003.9	4979.8	4953.2	4931.6	4912.3	4897.9
10°	5138.8	5112.3	5085.8	5049.6	5025.5	4994.2	4970.1	4936.4	4907.5	4881.0	4864.1
12.5°	5141.1	5107.4	5083.3	5042.4	5011.0	4977.3	4950.8	4912.3	4878.5	4852.1	4825.6
15°	5119.5	5088.2	5059.2	5015.9	4984.6	4953.2	4922.0	4881.0	4849.7	4818.4	4799.1
17.5°	5071.3	5042.4	5008.6	4967.7	4938.8	4909.9	4876.2	4842.4	4806.3	4772.5	4748.4
20°	5008.6	4977.3	4948.5	4907.5	4883.4	4852.1	4820.7	4784.6	4755.7	4722.0	4695.5
22.5°	4914.7	4885.8	4859.3	4835.2	4796.6	4772.5	4750.9	4710.0	4681.0	4649.7	4620.8
25°	4779.8	4750.9	4729.2	4700.2	4683.4	4656.9	4635.2	4599.1	4572.6	4543.7	4519.6
27.5°	4558.1	4541.3	4529.2	4512.3	4498.0	4485.9	4473.9	4444.9	4425.7	4399.2	4375.1
30°	4225.7	4223.3	4216.0	4208.8	4218.4	4218.4	4218.4	4213.7	4196.8	4177.5	4160.6
32.5°	3799.2	3804.1	3813.7	3821.0	3840.2	3861.9	3881.2	3890.8	3890.8	3878.8	3871.5
35°	3290.9	3298.2	3312.7	3331.9	3356.0	3382.5	3425.8	3435.5	3442.7	3442.7	3433.0
37.5°	2763.3	2760.9	2775.4	2792.2	2806.7	2826.0	2857.3	2864.5	2876.5	2871.8	2862.1
40°	2250.1	2238.1	2233.3	2238.1	2255.0	2247.7	2255.0	2250.1	2250.1	2233.3	2233.3
42.5°	1775.5	1761.1	1751.4	1744.3	1744.3	1727.3	1715.3	1703.3	1696.1	1684.0	1681.6
45°	1368.5	1351.5	1339.5	1334.6	1327.5	1305.8	1291.3	1276.8	1260.0	1255.2	1257.6
47.5°	1062.4	1045.6	1040.7	1028.7	1016.6	1004.6	995.0	978.1	975.7	966.1	975.7
50°	819.1	814.3	807.1	802.2	795.0	785.4	775.8	766.1	761.3	761.3	763.7
52.5°	636.0	638.4	631.2	623.9	619.2	619.2	607.1	604.7	604.7	595.1	604.7
55°	486.7	484.2	486.7	481.8	481.8	474.6	474.6	467.4	467.4	460.1	465.0
57.5°	356.6	361.4	356.6	359.0	363.8	356.6	354.1	346.9	351.7	346.9	349.4
60°	277.1	277.1	277.1	274.7	274.7	272.2	272.2	269.8	269.8	265.0	269.8
62.5°	204.8	207.2	207.2	207.2	209.6	207.2	204.8	207.2	204.8	204.8	207.2
65°	135.0	137.3	137.3	135.0	139.7	135.0	137.3	139.7	142.1	139.7	142.1
67.5°	91.5	91.5	94.0	96.4	94.0	96.4	98.8	96.4	98.8	103.6	98.8
70°	67.4	69.9	69.9	67.4	65.1	67.4	65.1	72.3	72.3	72.3	77.1
72.5°	43.3	43.3	41.0	41.0	41.0	41.0	41.0	48.2	43.3	41.0	45.8
75°	24.1	26.5	26.5	19.2	21.7	26.5	19.2	21.7	29.0	24.1	29.0
77.5°	14.5	14.5	14.5	14.5	14.5	14.5	19.2	16.9	16.9	16.9	19.2
80°	12.0	9.6	9.6	7.2	9.6	9.6	9.6	14.5	12.0	12.0	14.5
82.5°	4.9	4.9	2.4	0.0	4.9	4.9	4.9	4.9	4.9	4.9	9.6
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: P248888

CATALOG NUMBER: LD8B100D010 ER8B100835 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0
2.5°	4929.1	4929.1	4926.7	4922.0	4912.3	4912.3	4909.9	4902.6	4897.9	4895.4	4895.4
5°	4905.0	4895.4	4885.8	4859.3	4859.3	4854.4	4840.1	4830.4	4825.6	4813.5	4808.7
7.5°	4883.4	4854.4	4837.6	4820.7	4799.1	4789.4	4772.5	4765.3	4748.4	4736.4	4729.2
10°	4830.4	4811.1	4789.4	4762.9	4746.1	4726.8	4707.5	4693.1	4671.4	4659.3	4649.7
12.5°	4794.3	4765.3	4746.1	4717.1	4688.3	4671.4	4644.9	4628.1	4606.3	4582.2	4567.8
15°	4760.5	4729.2	4702.7	4671.4	4640.1	4620.8	4589.5	4570.2	4538.9	4514.8	4498.0
17.5°	4710.0	4683.4	4654.5	4616.0	4587.1	4563.0	4529.2	4505.2	4476.2	4444.9	4428.0
20°	4656.9	4625.6	4596.7	4558.1	4529.2	4500.3	4466.6	4440.1	4406.3	4377.5	4358.2
22.5°	4587.1	4550.9	4526.8	4488.2	4454.5	4423.3	4391.9	4360.6	4329.3	4305.2	4283.5
25°	4485.9	4447.3	4420.8	4389.5	4358.2	4334.1	4295.6	4276.3	4245.0	4223.3	4201.6
27.5°	4341.3	4312.4	4288.3	4257.0	4230.5	4211.3	4182.3	4163.1	4136.5	4117.3	4100.4
30°	4129.4	4105.3	4083.6	4052.2	4033.0	4016.1	3989.5	3972.7	3953.4	3931.7	3927.0
32.5°	3845.1	3825.7	3804.1	3782.4	3767.9	3758.3	3736.6	3727.0	3707.7	3695.6	3683.6
35°	3416.2	3399.3	3387.3	3377.7	3372.8	3375.2	3370.5	3380.1	3384.8	3382.5	3384.8
37.5°	2854.9	2845.2	2850.1	2857.3	2881.4	2912.7	2941.6	2984.9	3013.9	3042.8	3069.3
40°	2228.5	2235.7	2255.0	2298.3	2361.0	2430.9	2495.9	2577.9	2659.8	2717.6	2770.5
42.5°	1681.6	1703.3	1751.4	1814.1	1908.1	2011.6	2112.9	2233.3	2332.1	2428.4	2495.9
45°	1264.8	1293.7	1356.4	1443.1	1546.7	1667.1	1794.9	1929.7	2047.8	2146.6	2221.3
47.5°	985.4	1011.9	1074.5	1166.1	1293.7	1419.0	1551.5	1691.2	1814.1	1910.5	1975.5
50°	778.1	811.9	867.3	963.7	1091.4	1223.9	1361.2	1498.5	1614.2	1696.1	1753.9
52.5°	611.9	643.3	696.2	797.5	927.6	1060.1	1187.7	1322.6	1423.8	1503.3	1541.9
55°	474.6	503.6	558.9	643.3	766.1	896.2	1023.9	1139.6	1233.5	1291.3	1327.5
57.5°	361.4	383.1	421.6	505.9	616.8	737.2	845.7	961.3	1033.6	1074.5	1098.5
60°	274.7	291.5	332.5	397.5	498.7	602.3	693.8	780.6	838.4	872.1	896.2
62.5°	207.2	226.5	255.3	310.8	387.8	472.2	549.3	614.3	662.5	684.2	701.1
65°	142.1	156.6	178.3	221.6	286.7	346.9	407.2	455.4	486.7	510.8	520.4
67.5°	106.0	115.6	127.7	161.4	207.2	255.3	296.3	330.0	363.8	373.4	390.3
70°	79.5	86.8	98.8	122.9	149.3	183.1	216.9	236.1	260.2	277.1	281.9
72.5°	50.6	53.0	65.1	79.5	101.1	122.9	144.6	161.4	175.9	185.5	190.3
75°	29.0	43.3	43.3	57.8	72.3	81.9	96.4	108.4	115.6	122.9	122.9
77.5°	19.2	26.5	29.0	36.1	43.3	55.4	67.4	74.7	81.9	84.3	84.3
80°	16.9	19.2	19.2	26.5	31.3	41.0	48.2	50.6	55.4	57.8	62.7
82.5°	7.2	9.6	12.0	19.2	21.7	21.7	29.0	31.3	36.1	38.6	38.6
85°	2.4	4.9	4.9	7.2	12.0	14.5	16.9	19.2	21.7	21.7	24.1
87.5°	2.4	2.4	0.0	2.4	4.9	4.9	9.6	9.6	9.6	14.5	14.5
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: P248888

CATALOG NUMBER: LD8B100D010 ER8B100835 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0	4934.0
2.5°	4890.6	4893.0	4883.4	4881.0	4876.2	4878.5	4883.4
5°	4801.5	4803.9	4794.3	4784.6	4784.6	4782.2	4784.6
7.5°	4717.1	4719.6	4705.1	4700.2	4690.6	4693.1	4693.1
10°	4632.8	4632.8	4611.2	4608.7	4601.5	4599.1	4599.1
12.5°	4550.9	4543.7	4526.8	4517.2	4522.1	4507.6	4507.6
15°	4478.6	4466.6	4444.9	4437.7	4425.7	4420.8	4420.8
17.5°	4403.9	4394.3	4375.1	4360.6	4346.1	4343.8	4346.1
20°	4331.7	4322.0	4297.9	4288.3	4276.3	4276.3	4271.5
22.5°	4259.4	4249.7	4228.1	4220.9	4204.0	4204.0	4206.4
25°	4184.7	4177.5	4153.4	4148.6	4146.2	4136.5	4141.4
27.5°	4083.6	4078.7	4059.5	4052.2	4042.6	4040.2	4045.0
30°	3898.0	3890.8	3876.4	3869.2	3852.3	3854.7	3859.4
32.5°	3666.8	3657.1	3637.8	3630.6	3616.2	3611.3	3613.7
35°	3377.7	3370.5	3353.6	3353.6	3339.1	3334.3	3339.1
37.5°	3083.8	3090.9	3083.8	3090.9	3083.8	3081.3	3083.8
40°	2806.7	2833.2	2838.0	2864.5	2854.9	2869.3	2866.9
42.5°	2541.7	2585.0	2602.0	2623.6	2618.8	2628.4	2635.7
45°	2274.2	2310.4	2327.3	2341.7	2344.1	2349.0	2351.4
47.5°	2021.2	2050.2	2052.6	2069.4	2067.1	2067.1	2074.3
50°	1785.2	1804.5	1809.2	1821.3	1811.7	1806.9	1809.2
52.5°	1566.0	1585.2	1580.4	1585.2	1573.2	1568.4	1570.7
55°	1341.9	1351.5	1351.5	1351.5	1337.1	1337.1	1337.1
57.5°	1113.0	1115.5	1110.6	1113.0	1110.6	1096.2	1093.8
60°	903.5	903.5	901.0	903.5	896.2	889.0	889.0
62.5°	705.8	710.7	720.3	710.7	705.8	710.7	703.5
65°	527.6	537.3	534.8	539.6	537.3	537.3	532.4
67.5°	397.5	399.9	402.3	404.8	404.8	404.8	404.8
70°	291.5	298.8	296.3	296.3	296.3	296.3	310.8
72.5°	195.2	204.8	202.4	207.2	207.2	212.0	207.2
75°	132.5	142.1	137.3	144.6	142.1	137.3	149.3
77.5°	89.1	94.0	96.4	98.8	96.4	94.0	96.4
80°	62.7	67.4	65.1	67.4	67.4	67.4	69.9
82.5°	38.6	45.8	43.3	45.8	43.3	45.8	45.8
85°	26.5	29.0	24.1	29.0	26.5	26.5	31.3
87.5°	16.9	14.5	14.5	16.9	14.5	16.9	14.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)