

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: P248880

Luminaire Tested: **LD8B120D010 ER8B120830 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248880
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 ER8B120830 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9060.0 lumens
Efficiency: N/A
Efficacy: 76.6 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

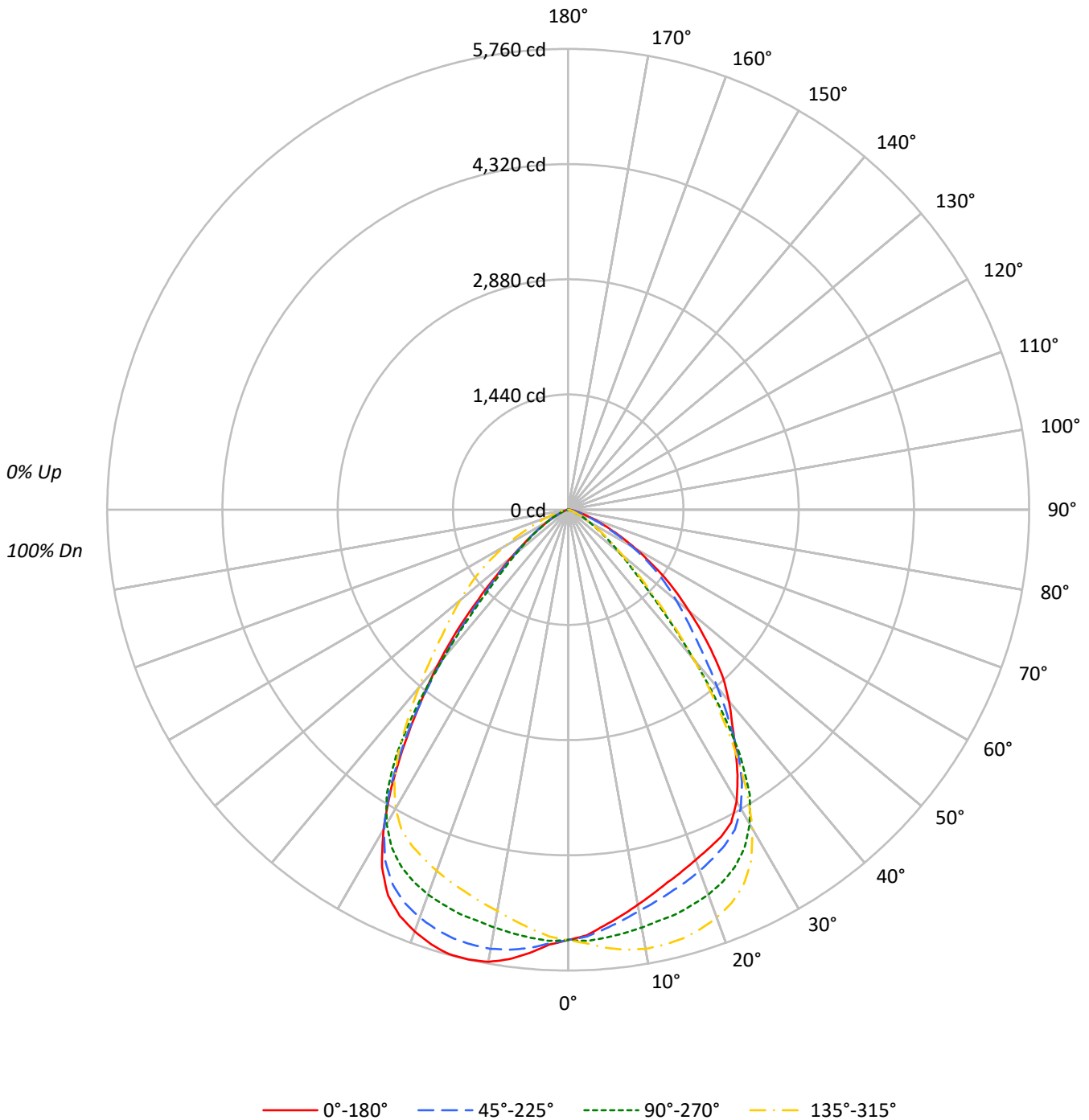
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248880

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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°	165856	165856	165856	165856
5°	161450	166245	172182	166245
10°	156986	166029	179681	166029
15°	153849	167014	183615	167014
20°	152801	167972	184087	167972
25°	153605	167633	181127	167633
30°	149808	161498	164400	161498
35°	137029	140880	133667	140880
40°	125806	97998	102338	97998
45°	111783	59784	69177	59784
50°	94617	39937	44351	39937
55°	78363	27252	28800	27252
60°	59767	18138	18298	18138
65°	42349	11302	10346	11302
70°	30546	7573	6870	7573
75°	19396	3765	3133	3765
80°	13532	2806	2326	2806
85°	12100	0	920	0



TEST NUMBER: P248880

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.9	5.7
10°-20°	1482.5	16.4
20°-30°	2244.8	24.8
30°-40°	2249.9	24.8
40°-50°	1412.8	15.6
50°-60°	752.9	8.3
60°-70°	309.6	3.4
70°-80°	81.8	0.9
80°-90°	13.8	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°	4239.3	46.8
0°-40°	6489.1	71.6
0°-60°	8654.8	95.5
0°-90°	9060.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9060.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5379	5379	5379	5379	5379	
5°	5216	5371	5562	5371	5216	492
15°	4819	5232	5752	5232	4819	1363
25°	4515	4927	5324	4927	4515	2071
35°	3640	3742	3551	3742	3640	2280
45°	2563	1371	1586	1371	2563	1971
55°	1458	507	536	507	1458	1300
65°	580	155	142	155	580	602
75°	163	32	26	32	163	184
85°	34	0	3	0	34	38
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°	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6
2.5°	5323.5	5318.2	5315.6	5320.9	5323.5	5334.0	5331.4	5336.6	5336.6	5339.3	5344.5
5°	5215.8	5213.1	5215.8	5215.8	5226.3	5236.8	5234.2	5242.1	5247.3	5260.5	5265.7
7.5°	5116.1	5116.1	5113.4	5123.8	5129.1	5144.9	5142.2	5155.4	5163.3	5176.4	5194.8
10°	5013.6	5013.6	5016.2	5024.1	5026.8	5050.3	5050.3	5068.7	5079.2	5092.4	5116.1
12.5°	4913.8	4913.8	4929.6	4924.3	4934.8	4953.2	4961.0	4979.4	4995.2	5021.5	5045.1
15°	4819.2	4819.2	4824.5	4837.6	4845.5	4869.2	4882.2	4903.3	4921.7	4948.0	4982.1
17.5°	4737.8	4735.2	4737.8	4753.6	4769.4	4790.4	4800.8	4827.1	4845.5	4879.6	4911.2
20°	4656.4	4661.7	4661.7	4674.8	4685.3	4711.5	4722.0	4751.0	4772.0	4803.4	4840.3
22.5°	4585.5	4582.9	4582.9	4601.3	4609.2	4632.7	4643.2	4669.5	4693.2	4719.4	4753.6
25°	4514.6	4509.3	4519.9	4522.5	4527.7	4553.9	4561.8	4580.2	4603.9	4627.6	4661.7
27.5°	4409.5	4404.3	4406.9	4417.4	4425.3	4446.3	4451.6	4469.9	4488.3	4509.3	4538.3
30°	4207.3	4202.1	4199.5	4217.9	4225.7	4241.4	4249.3	4280.9	4286.1	4309.7	4330.7
32.5°	3939.4	3936.8	3942.1	3957.8	3965.7	3986.7	3997.2	4015.6	4028.7	4041.9	4062.8
35°	3640.1	3634.8	3640.1	3655.8	3655.8	3674.2	3682.1	3689.9	3687.3	3689.9	3684.7
37.5°	3361.7	3359.0	3361.7	3369.5	3361.7	3369.5	3361.7	3345.9	3317.1	3285.5	3253.9
40°	3125.3	3127.9	3112.2	3122.7	3093.7	3088.5	3059.7	3020.2	2962.5	2899.5	2810.2
42.5°	2873.2	2865.3	2854.8	2860.0	2836.4	2818.0	2770.7	2720.9	2647.3	2542.3	2434.5
45°	2563.3	2560.7	2555.4	2552.8	2537.0	2518.6	2479.2	2421.4	2340.0	2232.4	2103.6
47.5°	2261.2	2253.3	2253.3	2255.9	2237.6	2235.0	2203.4	2153.6	2082.7	1977.6	1843.6
50°	1972.3	1969.7	1975.0	1985.5	1972.3	1967.1	1946.1	1912.0	1848.9	1759.7	1633.5
52.5°	1712.3	1709.7	1715.0	1728.1	1722.8	1728.1	1707.1	1680.9	1638.8	1552.1	1441.8
55°	1457.6	1457.6	1457.6	1473.3	1473.3	1473.3	1462.8	1447.1	1407.7	1344.7	1242.3
57.5°	1192.3	1194.9	1210.7	1213.3	1210.7	1216.0	1213.3	1197.5	1171.4	1126.7	1047.9
60°	969.1	969.1	977.0	984.9	982.2	984.9	984.9	977.0	950.7	914.0	851.0
62.5°	766.9	774.8	769.5	774.8	785.2	774.8	769.5	764.3	745.9	722.2	669.7
65°	580.4	585.7	585.7	588.3	583.0	585.7	575.2	567.3	556.8	530.6	496.4
67.5°	441.3	441.3	441.3	441.3	438.6	436.0	433.4	425.5	407.1	396.6	359.8
70°	338.8	323.0	323.0	323.0	323.0	325.7	317.8	307.3	302.0	283.7	257.4
72.5°	225.8	231.1	225.8	225.8	220.6	223.2	212.7	207.4	202.3	191.8	176.0
75°	162.8	149.7	154.9	157.6	149.7	154.9	144.4	133.9	133.9	126.0	118.2
77.5°	105.1	102.5	105.1	107.7	105.1	102.5	97.2	91.9	91.9	89.3	81.4
80°	76.2	73.5	73.5	73.5	70.9	73.5	68.3	68.3	63.0	60.4	55.1
82.5°	49.9	49.9	47.2	49.9	47.2	49.9	42.1	42.1	42.1	39.3	34.2
85°	34.2	28.9	28.9	31.6	26.3	31.6	28.9	26.3	23.7	23.7	21.0
87.5°	15.8	18.4	15.8	18.4	15.8	15.8	18.4	15.8	15.8	10.5	10.5
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: P248880

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6
2.5°	5352.4	5355.0	5355.0	5365.6	5370.7	5373.3	5373.3	5394.4	5386.5	5391.8	5397.0
5°	5276.3	5291.9	5297.2	5297.2	5326.1	5336.6	5347.1	5370.7	5373.3	5389.1	5407.5
7.5°	5202.6	5221.0	5231.6	5255.2	5273.6	5291.9	5323.5	5339.3	5355.0	5376.0	5399.6
10°	5131.7	5152.8	5173.8	5192.2	5221.0	5244.7	5265.7	5302.4	5320.9	5349.8	5381.2
12.5°	5063.5	5092.4	5110.8	5142.2	5173.8	5194.8	5226.3	5260.5	5289.3	5318.2	5355.0
15°	5003.1	5037.3	5058.2	5092.4	5126.5	5155.4	5189.6	5231.6	5252.6	5286.7	5320.9
17.5°	4937.4	4974.2	5000.5	5032.0	5074.0	5105.5	5134.4	5176.4	5202.6	5239.4	5278.9
20°	4869.2	4905.9	4937.4	4968.9	5011.0	5042.4	5076.6	5118.7	5147.5	5184.3	5215.8
22.5°	4787.8	4821.9	4856.0	4892.7	4934.8	4961.0	5000.5	5037.3	5068.7	5102.9	5134.4
25°	4682.7	4724.7	4751.0	4785.1	4819.2	4848.1	4890.1	4926.9	4953.2	4984.7	5013.6
27.5°	4559.2	4590.8	4611.8	4640.6	4674.8	4701.1	4732.5	4769.4	4795.7	4824.5	4845.5
30°	4349.1	4378.1	4396.4	4417.4	4451.6	4475.2	4501.5	4535.6	4553.9	4575.0	4593.4
32.5°	4073.3	4097.0	4107.5	4123.3	4146.9	4170.5	4191.6	4220.4	4228.3	4241.4	4241.4
35°	3674.2	3679.4	3676.8	3682.1	3692.6	3705.7	3724.1	3742.4	3752.9	3752.9	3745.1
37.5°	3206.7	3175.2	3141.1	3114.8	3106.9	3101.6	3112.2	3120.0	3130.6	3135.8	3122.7
40°	2720.9	2650.0	2573.8	2505.4	2458.2	2437.2	2429.3	2434.5	2434.5	2452.9	2452.9
42.5°	2303.3	2192.9	2080.1	1977.6	1909.3	1856.8	1833.2	1833.2	1835.8	1848.9	1856.8
45°	1956.6	1817.4	1686.0	1573.2	1478.6	1410.3	1378.8	1370.9	1368.3	1373.5	1391.9
47.5°	1691.3	1546.9	1410.3	1271.2	1171.4	1103.1	1074.2	1063.6	1053.1	1063.6	1066.3
50°	1483.9	1334.2	1189.8	1050.5	945.4	885.0	848.3	832.5	829.9	829.9	835.2
52.5°	1294.7	1155.6	1011.2	869.3	759.0	701.2	667.1	659.2	648.7	659.2	659.2
55°	1116.1	977.0	835.2	701.2	609.3	548.9	517.4	506.9	501.6	509.5	509.5
57.5°	921.9	803.6	672.4	551.5	459.6	417.6	393.9	380.8	378.1	383.4	378.1
60°	756.4	656.6	543.6	433.4	362.5	317.8	299.4	294.1	288.8	294.1	294.1
62.5°	598.8	514.8	422.8	338.8	278.4	246.9	225.8	225.8	223.2	223.2	225.8
65°	443.9	378.1	312.5	241.6	194.4	170.7	154.9	154.9	152.3	154.9	152.3
67.5°	323.0	278.4	225.8	176.0	139.2	126.0	115.6	107.7	113.0	107.7	105.1
70°	236.4	199.6	162.8	133.9	107.7	94.6	86.7	84.0	78.8	78.8	78.8
72.5°	157.6	133.9	110.3	86.7	70.9	57.7	55.1	49.9	44.6	47.2	52.5
75°	105.1	89.3	78.8	63.0	47.2	47.2	31.6	31.6	26.3	31.6	23.7
77.5°	73.5	60.4	47.2	39.3	31.6	28.9	21.0	21.0	18.4	18.4	18.4
80°	52.5	44.6	34.2	28.9	21.0	21.0	18.4	15.8	13.1	13.1	15.8
82.5°	31.6	23.7	23.7	21.0	13.1	10.5	7.9	10.5	5.3	5.3	5.3
85°	18.4	15.8	13.1	7.9	5.3	5.3	2.6	0.0	2.6	2.6	0.0
87.5°	10.5	5.3	5.3	2.6	0.0	2.6	2.6	0.0	0.0	0.0	5.3
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: P248880

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6
2.5°	5410.2	5407.5	5412.8	5412.8	5428.6	5425.9	5433.8	5433.8	5428.6	5431.2	5441.7
5°	5428.6	5436.5	5452.1	5465.3	5488.9	5499.5	5512.6	5525.8	5528.4	5536.2	5544.1
7.5°	5428.6	5454.8	5473.2	5496.8	5528.4	5546.7	5575.6	5599.3	5609.8	5622.8	5638.6
10°	5418.0	5444.3	5478.4	5504.7	5544.1	5573.0	5601.9	5638.6	5654.4	5675.4	5696.4
12.5°	5397.0	5425.9	5462.6	5496.8	5541.4	5567.7	5604.5	5638.6	5662.3	5691.2	5714.8
15°	5365.6	5399.6	5433.8	5467.9	5515.2	5546.7	5580.9	5620.2	5643.9	5675.4	5696.4
17.5°	5315.6	5352.4	5383.9	5415.4	5460.0	5496.8	5528.4	5565.1	5588.8	5615.1	5643.9
20°	5255.2	5289.3	5323.5	5349.8	5394.4	5425.9	5460.0	5494.2	5512.6	5517.9	5562.5
22.5°	5179.1	5202.6	5228.9	5271.0	5297.2	5326.1	5357.7	5389.1	5407.5	5436.5	5452.1
25°	5052.9	5076.6	5105.5	5123.8	5155.4	5179.1	5210.5	5244.7	5255.2	5276.3	5291.9
27.5°	4877.1	4890.1	4903.3	4919.0	4937.4	4950.6	4968.9	4984.7	4995.2	5005.7	5016.2
30°	4598.6	4598.6	4598.6	4588.1	4596.0	4603.9	4606.5	4603.9	4603.9	4601.3	4601.3
32.5°	4230.9	4210.0	4186.3	4165.3	4157.4	4146.9	4141.6	4133.8	4120.7	4112.8	4115.4
35°	3734.5	3687.3	3658.4	3632.2	3611.2	3595.4	3587.5	3579.6	3577.0	3566.6	3556.0
37.5°	3114.8	3080.6	3059.7	3043.9	3025.5	3009.7	3012.3	3015.0	3022.8	3017.6	3020.2
40°	2458.2	2450.3	2458.2	2439.8	2434.5	2439.8	2452.9	2471.4	2481.9	2492.4	2510.7
42.5°	1869.9	1883.0	1901.5	1901.5	1909.3	1919.9	1935.5	1964.5	1980.2	1998.6	2019.6
45°	1407.7	1423.5	1447.1	1454.9	1460.2	1473.3	1491.8	1515.3	1525.8	1541.6	1560.0
47.5°	1084.7	1095.2	1108.2	1121.4	1134.5	1139.8	1158.2	1158.2	1171.4	1181.9	1187.0
50°	845.7	856.2	866.6	874.5	879.8	887.7	892.9	900.8	903.4	908.7	911.3
52.5°	661.8	675.0	675.0	680.2	688.1	695.9	693.4	695.9	698.5	698.5	706.4
55°	517.4	517.4	525.3	525.3	530.6	527.9	530.6	530.6	530.6	530.6	533.2
57.5°	386.0	388.7	396.6	391.3	388.7	393.9	388.7	393.9	391.3	396.6	388.7
60°	296.7	296.7	299.4	299.4	302.0	302.0	302.0	299.4	299.4	296.7	296.7
62.5°	223.2	225.8	228.5	225.8	225.8	225.8	223.2	223.2	220.6	217.9	217.9
65°	149.7	147.1	152.3	147.1	149.7	149.7	147.1	149.7	141.8	144.4	141.8
67.5°	107.7	105.1	102.5	105.1	102.5	99.8	99.8	102.5	105.1	97.2	97.2
70°	70.9	73.5	70.9	73.5	76.2	76.2	73.5	70.9	73.5	68.3	70.9
72.5°	44.6	44.6	44.6	44.6	44.6	47.2	47.2	47.2	42.1	42.1	39.3
75°	21.0	28.9	23.7	21.0	28.9	28.9	26.3	26.3	23.7	23.7	23.7
77.5°	21.0	15.8	15.8	15.8	15.8	15.8	15.8	15.8	13.1	15.8	13.1
80°	10.5	10.5	10.5	7.9	10.5	10.5	13.1	10.5	10.5	7.9	13.1
82.5°	5.3	5.3	5.3	0.0	2.6	5.3	5.3	2.6	5.3	5.3	2.6
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: P248880

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6
2.5°	5439.1	5436.5	5439.1	5441.7	5439.1	5436.5	5439.1	5441.7	5431.2	5428.6	5433.8
5°	5554.6	5554.6	5559.8	5562.5	5559.8	5554.6	5554.6	5544.1	5536.2	5528.4	5525.8
7.5°	5654.4	5659.7	5664.9	5667.5	5664.9	5659.7	5654.4	5638.6	5622.8	5609.8	5599.3
10°	5714.8	5722.7	5733.2	5738.4	5733.2	5722.7	5714.8	5696.4	5675.4	5654.4	5638.6
12.5°	5741.1	5749.0	5762.1	5759.5	5762.1	5749.0	5741.1	5714.8	5691.2	5662.3	5638.6
15°	5722.7	5733.2	5746.3	5751.6	5746.3	5733.2	5722.7	5696.4	5675.4	5643.9	5620.2
17.5°	5664.9	5680.7	5688.6	5696.4	5688.6	5680.7	5664.9	5643.9	5615.1	5588.8	5565.1
20°	5586.1	5596.7	5607.2	5609.8	5607.2	5596.7	5586.1	5562.5	5517.9	5512.6	5494.2
22.5°	5473.2	5481.1	5504.7	5496.8	5504.7	5481.1	5473.2	5452.1	5436.5	5407.5	5389.1
25°	5310.3	5318.2	5320.9	5323.5	5320.9	5318.2	5310.3	5291.9	5276.3	5255.2	5244.7
27.5°	5029.4	5029.4	5034.6	5037.3	5034.6	5029.4	5029.4	5016.2	5005.7	4995.2	4984.7
30°	4603.9	4603.9	4603.9	4617.1	4603.9	4603.9	4603.9	4601.3	4601.3	4603.9	4603.9
32.5°	4112.8	4107.5	4102.3	4107.5	4102.3	4107.5	4112.8	4115.4	4112.8	4120.7	4133.8
35°	3556.0	3553.4	3561.3	3550.8	3561.3	3553.4	3556.0	3556.0	3566.6	3577.0	3579.6
37.5°	3022.8	3017.6	3028.1	3017.6	3028.1	3017.6	3022.8	3020.2	3017.6	3022.8	3015.0
40°	2516.0	2521.2	2521.2	2542.3	2521.2	2521.2	2516.0	2510.7	2492.4	2481.9	2471.4
42.5°	2030.1	2045.9	2040.6	2056.4	2040.6	2045.9	2030.1	2019.6	1998.6	1980.2	1964.5
45°	1570.5	1581.1	1581.1	1586.3	1581.1	1581.1	1570.5	1560.0	1541.6	1525.8	1515.3
47.5°	1205.4	1205.4	1205.4	1208.1	1205.4	1205.4	1205.4	1187.0	1181.9	1171.4	1158.2
50°	916.6	919.2	921.9	924.5	921.9	919.2	916.6	911.3	908.7	903.4	900.8
52.5°	703.8	706.4	701.2	706.4	701.2	706.4	703.8	706.4	698.5	698.5	695.9
55°	533.2	530.6	533.2	535.7	533.2	530.6	533.2	533.2	530.6	530.6	530.6
57.5°	391.3	386.0	386.0	386.0	386.0	386.0	391.3	388.7	396.6	391.3	393.9
60°	291.5	294.1	294.1	296.7	294.1	294.1	291.5	296.7	296.7	299.4	299.4
62.5°	215.3	223.2	217.9	223.2	217.9	223.2	215.3	217.9	217.9	220.6	223.2
65°	139.2	139.2	139.2	141.8	139.2	139.2	139.2	141.8	144.4	141.8	149.7
67.5°	94.6	97.2	102.5	99.8	102.5	97.2	94.6	97.2	97.2	105.1	102.5
70°	76.2	68.3	68.3	76.2	68.3	68.3	76.2	70.9	68.3	73.5	70.9
72.5°	44.6	39.3	44.6	44.6	44.6	39.3	44.6	39.3	42.1	42.1	47.2
75°	23.7	21.0	18.4	26.3	18.4	21.0	23.7	23.7	23.7	23.7	26.3
77.5°	15.8	13.1	18.4	18.4	18.4	13.1	15.8	13.1	15.8	13.1	15.8
80°	7.9	10.5	7.9	13.1	7.9	10.5	7.9	13.1	7.9	10.5	10.5
82.5°	2.6	5.3	5.3	5.3	5.3	5.3	2.6	2.6	5.3	5.3	2.6
85°	0.0	5.3	2.6	2.6	2.6	5.3	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	0.0	0.0	2.6	0.0	0.0	2.6	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: P248880

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6
2.5°	5433.8	5425.9	5428.6	5412.8	5412.8	5407.5	5410.2	5397.0	5391.8	5386.5	5394.4
5°	5512.6	5499.5	5488.9	5465.3	5452.1	5436.5	5428.6	5407.5	5389.1	5373.3	5370.7
7.5°	5575.6	5546.7	5528.4	5496.8	5473.2	5454.8	5428.6	5399.6	5376.0	5355.0	5339.3
10°	5601.9	5573.0	5544.1	5504.7	5478.4	5444.3	5418.0	5381.2	5349.8	5320.9	5302.4
12.5°	5604.5	5567.7	5541.4	5496.8	5462.6	5425.9	5397.0	5355.0	5318.2	5289.3	5260.5
15°	5580.9	5546.7	5515.2	5467.9	5433.8	5399.6	5365.6	5320.9	5286.7	5252.6	5231.6
17.5°	5528.4	5496.8	5460.0	5415.4	5383.9	5352.4	5315.6	5278.9	5239.4	5202.6	5176.4
20°	5460.0	5425.9	5394.4	5349.8	5323.5	5289.3	5255.2	5215.8	5184.3	5147.5	5118.7
22.5°	5357.7	5326.1	5297.2	5271.0	5228.9	5202.6	5179.1	5134.4	5102.9	5068.7	5037.3
25°	5210.5	5179.1	5155.4	5123.8	5105.5	5076.6	5052.9	5013.6	4984.7	4953.2	4926.9
27.5°	4968.9	4950.6	4937.4	4919.0	4903.3	4890.1	4877.1	4845.5	4824.5	4795.7	4769.4
30°	4606.5	4603.9	4596.0	4588.1	4598.6	4598.6	4598.6	4593.4	4575.0	4553.9	4535.6
32.5°	4141.6	4146.9	4157.4	4165.3	4186.3	4210.0	4230.9	4241.4	4241.4	4228.3	4220.4
35°	3587.5	3595.4	3611.2	3632.2	3658.4	3687.3	3734.5	3745.1	3752.9	3752.9	3742.4
37.5°	3012.3	3009.7	3025.5	3043.9	3059.7	3080.6	3114.8	3122.7	3135.8	3130.6	3120.0
40°	2452.9	2439.8	2434.5	2439.8	2458.2	2450.3	2458.2	2452.9	2452.9	2434.5	2434.5
42.5°	1935.5	1919.9	1909.3	1901.5	1901.5	1883.0	1869.9	1856.8	1848.9	1835.8	1833.2
45°	1491.8	1473.3	1460.2	1454.9	1447.1	1423.5	1407.7	1391.9	1373.5	1368.3	1370.9
47.5°	1158.2	1139.8	1134.5	1121.4	1108.2	1095.2	1084.7	1066.3	1063.6	1053.1	1063.6
50°	892.9	887.7	879.8	874.5	866.6	856.2	845.7	835.2	829.9	829.9	832.5
52.5°	693.4	695.9	688.1	680.2	675.0	675.0	661.8	659.2	659.2	648.7	659.2
55°	530.6	527.9	530.6	525.3	525.3	517.4	517.4	509.5	509.5	501.6	506.9
57.5°	388.7	393.9	388.7	391.3	396.6	388.7	386.0	378.1	383.4	378.1	380.8
60°	302.0	302.0	302.0	299.4	299.4	296.7	296.7	294.1	294.1	288.8	294.1
62.5°	223.2	225.8	225.8	225.8	228.5	225.8	223.2	225.8	223.2	223.2	225.8
65°	147.1	149.7	149.7	147.1	152.3	147.1	149.7	152.3	154.9	152.3	154.9
67.5°	99.8	99.8	102.5	105.1	102.5	105.1	107.7	105.1	107.7	113.0	107.7
70°	73.5	76.2	76.2	73.5	70.9	73.5	70.9	78.8	78.8	78.8	84.0
72.5°	47.2	47.2	44.6	44.6	44.6	44.6	44.6	52.5	47.2	44.6	49.9
75°	26.3	28.9	28.9	21.0	23.7	28.9	21.0	23.7	31.6	26.3	31.6
77.5°	15.8	15.8	15.8	15.8	15.8	15.8	21.0	18.4	18.4	18.4	21.0
80°	13.1	10.5	10.5	7.9	10.5	10.5	10.5	15.8	13.1	13.1	15.8
82.5°	5.3	5.3	2.6	0.0	5.3	5.3	5.3	5.3	5.3	5.3	10.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	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: P248880

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6
2.5°	5373.3	5373.3	5370.7	5365.6	5355.0	5355.0	5352.4	5344.5	5339.3	5336.6	5336.6
5°	5347.1	5336.6	5326.1	5297.2	5297.2	5291.9	5276.3	5265.7	5260.5	5247.3	5242.1
7.5°	5323.5	5291.9	5273.6	5255.2	5231.6	5221.0	5202.6	5194.8	5176.4	5163.3	5155.4
10°	5265.7	5244.7	5221.0	5192.2	5173.8	5152.8	5131.7	5116.1	5092.4	5079.2	5068.7
12.5°	5226.3	5194.8	5173.8	5142.2	5110.8	5092.4	5063.5	5045.1	5021.5	4995.2	4979.4
15°	5189.6	5155.4	5126.5	5092.4	5058.2	5037.3	5003.1	4982.1	4948.0	4921.7	4903.3
17.5°	5134.4	5105.5	5074.0	5032.0	5000.5	4974.2	4937.4	4911.2	4879.6	4845.5	4827.1
20°	5076.6	5042.4	5011.0	4968.9	4937.4	4905.9	4869.2	4840.3	4803.4	4772.0	4751.0
22.5°	5000.5	4961.0	4934.8	4892.7	4856.0	4821.9	4787.8	4753.6	4719.4	4693.2	4669.5
25°	4890.1	4848.1	4819.2	4785.1	4751.0	4724.7	4682.7	4661.7	4627.6	4603.9	4580.2
27.5°	4732.5	4701.1	4674.8	4640.6	4611.8	4590.8	4559.2	4538.3	4509.3	4488.3	4469.9
30°	4501.5	4475.2	4451.6	4417.4	4396.4	4378.1	4349.1	4330.7	4309.7	4286.1	4280.9
32.5°	4191.6	4170.5	4146.9	4123.3	4107.5	4097.0	4073.3	4062.8	4041.9	4028.7	4015.6
35°	3724.1	3705.7	3692.6	3682.1	3676.8	3679.4	3674.2	3684.7	3689.9	3687.3	3689.9
37.5°	3112.2	3101.6	3106.9	3114.8	3141.1	3175.2	3206.7	3253.9	3285.5	3317.1	3345.9
40°	2429.3	2437.2	2458.2	2505.4	2573.8	2650.0	2720.9	2810.2	2899.5	2962.5	3020.2
42.5°	1833.2	1856.8	1909.3	1977.6	2080.1	2192.9	2303.3	2434.5	2542.3	2647.3	2720.9
45°	1378.8	1410.3	1478.6	1573.2	1686.0	1817.4	1956.6	2103.6	2232.4	2340.0	2421.4
47.5°	1074.2	1103.1	1171.4	1271.2	1410.3	1546.9	1691.3	1843.6	1977.6	2082.7	2153.6
50°	848.3	885.0	945.4	1050.5	1189.8	1334.2	1483.9	1633.5	1759.7	1848.9	1912.0
52.5°	667.1	701.2	759.0	869.3	1011.2	1155.6	1294.7	1441.8	1552.1	1638.8	1680.9
55°	517.4	548.9	609.3	701.2	835.2	977.0	1116.1	1242.3	1344.7	1407.7	1447.1
57.5°	393.9	417.6	459.6	551.5	672.4	803.6	921.9	1047.9	1126.7	1171.4	1197.5
60°	299.4	317.8	362.5	433.4	543.6	656.6	756.4	851.0	914.0	950.7	977.0
62.5°	225.8	246.9	278.4	338.8	422.8	514.8	598.8	669.7	722.2	745.9	764.3
65°	154.9	170.7	194.4	241.6	312.5	378.1	443.9	496.4	530.6	556.8	567.3
67.5°	115.6	126.0	139.2	176.0	225.8	278.4	323.0	359.8	396.6	407.1	425.5
70°	86.7	94.6	107.7	133.9	162.8	199.6	236.4	257.4	283.7	302.0	307.3
72.5°	55.1	57.7	70.9	86.7	110.3	133.9	157.6	176.0	191.8	202.3	207.4
75°	31.6	47.2	47.2	63.0	78.8	89.3	105.1	118.2	126.0	133.9	133.9
77.5°	21.0	28.9	31.6	39.3	47.2	60.4	73.5	81.4	89.3	91.9	91.9
80°	18.4	21.0	21.0	28.9	34.2	44.6	52.5	55.1	60.4	63.0	68.3
82.5°	7.9	10.5	13.1	21.0	23.7	23.7	31.6	34.2	39.3	42.1	42.1
85°	2.6	5.3	5.3	7.9	13.1	15.8	18.4	21.0	23.7	23.7	26.3
87.5°	2.6	2.6	0.0	2.6	5.3	5.3	10.5	10.5	10.5	15.8	15.8
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: P248880

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6	5378.6
2.5°	5331.4	5334.0	5323.5	5320.9	5315.6	5318.2	5323.5
5°	5234.2	5236.8	5226.3	5215.8	5215.8	5213.1	5215.8
7.5°	5142.2	5144.9	5129.1	5123.8	5113.4	5116.1	5116.1
10°	5050.3	5050.3	5026.8	5024.1	5016.2	5013.6	5013.6
12.5°	4961.0	4953.2	4934.8	4924.3	4929.6	4913.8	4913.8
15°	4882.2	4869.2	4845.5	4837.6	4824.5	4819.2	4819.2
17.5°	4800.8	4790.4	4769.4	4753.6	4737.8	4735.2	4737.8
20°	4722.0	4711.5	4685.3	4674.8	4661.7	4661.7	4656.4
22.5°	4643.2	4632.7	4609.2	4601.3	4582.9	4582.9	4585.5
25°	4561.8	4553.9	4527.7	4522.5	4519.9	4509.3	4514.6
27.5°	4451.6	4446.3	4425.3	4417.4	4406.9	4404.3	4409.5
30°	4249.3	4241.4	4225.7	4217.9	4199.5	4202.1	4207.3
32.5°	3997.2	3986.7	3965.7	3957.8	3942.1	3936.8	3939.4
35°	3682.1	3674.2	3655.8	3655.8	3640.1	3634.8	3640.1
37.5°	3361.7	3369.5	3361.7	3369.5	3361.7	3359.0	3361.7
40°	3059.7	3088.5	3093.7	3122.7	3112.2	3127.9	3125.3
42.5°	2770.7	2818.0	2836.4	2860.0	2854.8	2865.3	2873.2
45°	2479.2	2518.6	2537.0	2552.8	2555.4	2560.7	2563.3
47.5°	2203.4	2235.0	2237.6	2255.9	2253.3	2253.3	2261.2
50°	1946.1	1967.1	1972.3	1985.5	1975.0	1969.7	1972.3
52.5°	1707.1	1728.1	1722.8	1728.1	1715.0	1709.7	1712.3
55°	1462.8	1473.3	1473.3	1473.3	1457.6	1457.6	1457.6
57.5°	1213.3	1216.0	1210.7	1213.3	1210.7	1194.9	1192.3
60°	984.9	984.9	982.2	984.9	977.0	969.1	969.1
62.5°	769.5	774.8	785.2	774.8	769.5	774.8	766.9
65°	575.2	585.7	583.0	588.3	585.7	585.7	580.4
67.5°	433.4	436.0	438.6	441.3	441.3	441.3	441.3
70°	317.8	325.7	323.0	323.0	323.0	323.0	338.8
72.5°	212.7	223.2	220.6	225.8	225.8	231.1	225.8
75°	144.4	154.9	149.7	157.6	154.9	149.7	162.8
77.5°	97.2	102.5	105.1	107.7	105.1	102.5	105.1
80°	68.3	73.5	70.9	73.5	73.5	73.5	76.2
82.5°	42.1	49.9	47.2	49.9	47.2	49.9	49.9
85°	28.9	31.6	26.3	31.6	28.9	28.9	34.2
87.5°	18.4	15.8	15.8	18.4	15.8	18.4	15.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)