

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: P248608

Luminaire Tested: **LD8B90D010 ER8B90935 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248608
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: LD8B90D010 ER8B90935 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8040.0 lumens
Efficiency: N/A
Efficacy: 93.4 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

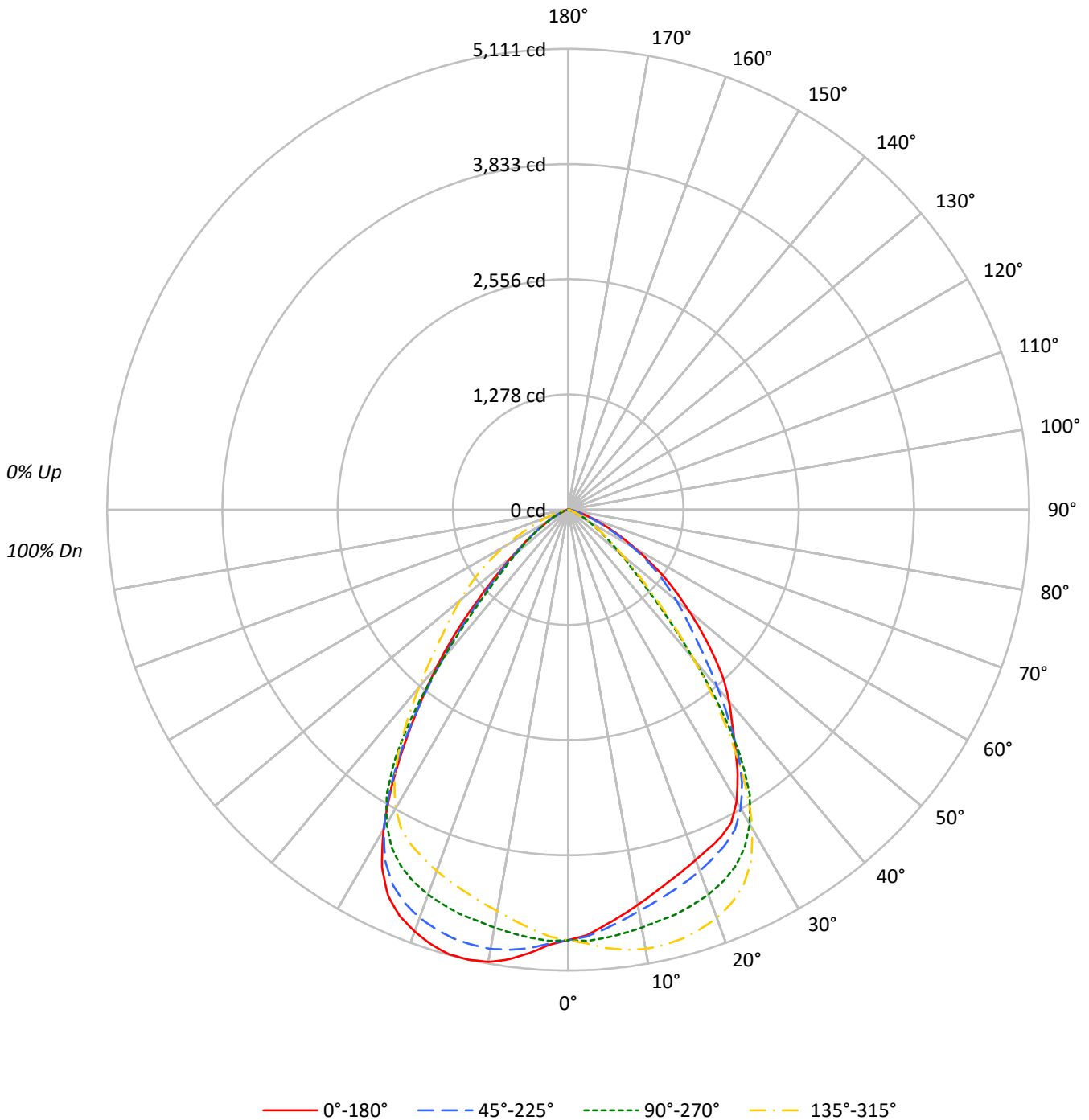
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248608

CATALOG NUMBER: LD8B90D010 ER8B90935 8LBSW0H

Luminous Intensity Polar Plot





TEST NUMBER: P248608

CATALOG NUMBER: LD8B90D010 ER8B90935 8LBSW0H

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°	147185	147185	147185	147185
5°	143274	147530	152799	147530
10°	139310	147339	159450	147339
15°	136530	148211	162944	148211
20°	135599	149060	163361	149060
25°	136311	148760	160737	148760
30°	132941	143313	145891	143313
35°	121602	125020	118617	125020
40°	111640	86965	90817	86965
45°	99198	53055	61389	53055
50°	83962	35442	39357	35442
55°	69540	24182	25558	24182
60°	53038	16097	16238	16097
65°	37577	10033	9186	10033
70°	27102	6717	6095	6717
75°	17216	3336	2776	3336
80°	12004	2486	2060	2486
85°	10720	0	814	0



TEST NUMBER: P248608

CATALOG NUMBER: LD8B90D010 ER8B90935 8LBSW0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.3	5.7
10°-20°	1315.6	16.4
20°-30°	1992.1	24.8
30°-40°	1996.6	24.8
40°-50°	1253.7	15.6
50°-60°	668.1	8.3
60°-70°	274.7	3.4
70°-80°	72.6	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°	3762.0	46.8
0°-40°	5758.5	71.6
0°-60°	7680.4	95.5
0°-90°	8040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8040.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4773	4773	4773	4773	4773	
5°	4629	4766	4936	4766	4629	436
15°	4277	4643	5104	4643	4277	1210
25°	4006	4372	4724	4372	4006	1837
35°	3230	3321	3151	3321	3230	2024
45°	2275	1217	1408	1217	2275	1749
55°	1294	450	475	450	1294	1153
65°	515	138	126	138	515	534
75°	144	28	23	28	144	164
85°	30	0	2	0	30	33
90°	0	0	0	0	0	



TEST NUMBER: P248608

CATALOG NUMBER: LD8B90D010 ER8B90935 8LBSW0H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1
2.5°	4724.2	4719.5	4717.2	4721.9	4724.2	4733.5	4731.2	4735.8	4735.8	4738.2	4742.8
5°	4628.6	4626.2	4628.6	4628.6	4637.9	4647.2	4644.9	4651.9	4656.5	4668.2	4672.8
7.5°	4540.1	4540.1	4537.7	4547.0	4551.7	4565.7	4563.3	4575.0	4582.0	4593.6	4609.9
10°	4449.1	4449.1	4451.4	4458.4	4460.8	4481.8	4481.8	4498.1	4507.4	4519.1	4540.1
12.5°	4360.6	4360.6	4374.6	4369.9	4379.2	4395.5	4402.5	4418.8	4432.8	4456.1	4477.1
15°	4276.7	4276.7	4281.4	4293.0	4300.0	4321.0	4332.6	4351.3	4367.6	4390.9	4421.2
17.5°	4204.4	4202.1	4204.4	4218.4	4232.4	4251.0	4260.3	4283.7	4300.0	4330.3	4358.3
20°	4132.2	4136.9	4136.9	4148.5	4157.8	4181.1	4190.4	4216.1	4234.7	4262.6	4295.4
22.5°	4069.3	4067.0	4067.0	4083.3	4090.3	4111.2	4120.5	4143.8	4164.8	4188.1	4218.4
25°	4006.3	4001.6	4011.0	4013.3	4017.9	4041.2	4048.2	4064.6	4085.6	4106.6	4136.9
27.5°	3913.1	3908.5	3910.8	3920.1	3927.1	3945.7	3950.4	3966.7	3983.0	4001.6	4027.3
30°	3733.6	3729.0	3726.7	3743.0	3750.0	3763.9	3770.9	3798.9	3803.5	3824.5	3843.1
32.5°	3495.9	3493.6	3498.3	3512.2	3519.2	3537.9	3547.2	3563.5	3575.1	3586.8	3605.4
35°	3230.3	3225.6	3230.3	3244.3	3244.3	3260.6	3267.6	3274.5	3272.2	3274.5	3269.9
37.5°	2983.2	2980.8	2983.2	2990.1	2983.2	2990.1	2983.2	2969.2	2943.6	2915.6	2887.6
40°	2773.4	2775.7	2761.8	2771.1	2745.4	2740.8	2715.2	2680.2	2629.0	2573.0	2493.8
42.5°	2549.7	2542.7	2533.4	2538.0	2517.1	2500.7	2458.8	2414.6	2349.2	2256.1	2160.4
45°	2274.7	2272.4	2267.7	2265.4	2251.4	2235.1	2200.1	2148.8	2076.6	1981.1	1866.8
47.5°	2006.7	1999.7	1999.7	2002.0	1985.7	1983.4	1955.3	1911.1	1848.2	1754.9	1636.1
50°	1750.2	1747.9	1752.6	1761.9	1750.2	1745.6	1727.0	1696.7	1640.8	1561.5	1449.6
52.5°	1519.5	1517.2	1521.9	1533.5	1528.8	1533.5	1514.9	1491.6	1454.3	1377.4	1279.5
55°	1293.5	1293.5	1293.5	1307.4	1307.4	1307.4	1298.1	1284.2	1249.2	1193.3	1102.4
57.5°	1058.1	1060.4	1074.4	1076.7	1074.4	1079.1	1076.7	1062.7	1039.5	999.9	929.9
60°	860.0	860.0	867.0	874.0	871.6	874.0	874.0	867.0	843.7	811.1	755.2
62.5°	680.5	687.5	682.8	687.5	696.8	687.5	682.8	678.2	661.9	640.9	594.3
65°	515.0	519.7	519.7	522.1	517.4	519.7	510.4	503.4	494.1	470.8	440.5
67.5°	391.6	391.6	391.6	391.6	389.2	386.9	384.6	377.6	361.3	352.0	319.3
70°	300.6	286.6	286.6	286.6	286.6	289.0	282.0	272.7	268.0	251.7	228.4
72.5°	200.4	205.1	200.4	200.4	195.8	198.1	188.8	184.1	179.5	170.2	156.2
75°	144.5	132.9	137.5	139.9	132.9	137.5	128.2	118.9	118.9	111.9	104.9
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



TEST NUMBER: P248608

CATALOG NUMBER: LD8B90D010 ER8B90935 8LBSW0H

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1
2.5°	4749.8	4752.1	4752.1	4761.5	4766.1	4768.4	4768.4	4787.1	4780.1	4784.8	4789.4
5°	4682.2	4696.2	4700.9	4700.9	4726.5	4735.8	4745.1	4766.1	4768.4	4782.4	4798.7
7.5°	4616.9	4633.2	4642.6	4663.5	4679.8	4696.2	4724.2	4738.2	4752.1	4770.8	4791.7
10°	4554.0	4572.7	4591.3	4607.6	4633.2	4654.2	4672.8	4705.5	4721.9	4747.5	4775.4
12.5°	4493.5	4519.1	4535.4	4563.3	4591.3	4609.9	4637.9	4668.2	4693.9	4719.5	4752.1
15°	4439.8	4470.1	4488.8	4519.1	4549.4	4575.0	4605.3	4642.6	4661.2	4691.6	4721.9
17.5°	4381.5	4414.2	4437.5	4465.4	4502.8	4530.7	4556.4	4593.6	4616.9	4649.5	4684.5
20°	4321.0	4353.6	4381.5	4409.5	4446.8	4474.8	4505.1	4542.4	4568.0	4600.6	4628.6
22.5°	4248.7	4279.1	4309.3	4341.9	4379.2	4402.5	4437.5	4470.1	4498.1	4528.4	4556.4
25°	4155.5	4192.8	4216.1	4246.3	4276.7	4302.3	4339.6	4372.2	4395.5	4423.5	4449.1
27.5°	4045.9	4074.0	4092.6	4118.2	4148.5	4171.8	4199.7	4232.4	4255.7	4281.4	4300.0
30°	3859.5	3885.2	3901.5	3920.1	3950.4	3971.4	3994.7	4024.9	4041.2	4059.9	4076.3
32.5°	3614.7	3635.7	3645.1	3659.1	3680.1	3701.0	3719.7	3745.3	3752.3	3763.9	3763.9
35°	3260.6	3265.2	3262.9	3267.6	3276.9	3288.5	3304.8	3321.1	3330.4	3330.4	3323.5
37.5°	2845.7	2817.8	2787.4	2764.1	2757.1	2752.4	2761.8	2768.7	2778.1	2782.7	2771.1
40°	2414.6	2351.6	2284.0	2223.4	2181.4	2162.8	2155.8	2160.4	2160.4	2176.7	2176.7
42.5°	2044.0	1946.0	1845.9	1754.9	1694.3	1647.8	1626.8	1626.8	1629.1	1640.8	1647.8
45°	1736.3	1612.8	1496.2	1396.1	1312.1	1251.5	1223.6	1216.6	1214.3	1218.9	1235.2
47.5°	1500.9	1372.8	1251.5	1128.0	1039.5	978.9	953.3	943.9	934.6	943.9	946.3
50°	1316.8	1184.0	1055.8	932.2	839.0	785.4	752.8	738.8	736.5	736.5	741.2
52.5°	1149.0	1025.5	897.3	771.5	673.5	622.3	592.0	585.0	575.7	585.0	585.0
55°	990.5	867.0	741.2	622.3	540.7	487.1	459.1	449.8	445.1	452.1	452.1
57.5°	818.1	713.1	596.7	489.4	407.9	370.6	349.6	338.0	335.6	340.3	335.6
60°	671.2	582.7	482.4	384.6	321.7	282.0	265.7	261.0	256.3	261.0	261.0
62.5°	531.4	456.8	375.2	300.6	247.0	219.1	200.4	200.4	198.1	198.1	200.4
65°	393.9	335.6	277.3	214.4	172.5	151.5	137.5	137.5	135.2	137.5	135.2
67.5°	286.6	247.0	200.4	156.2	123.6	111.9	102.5	95.5	100.2	95.5	93.2
70°	209.8	177.1	144.5	118.9	95.5	83.9	76.9	74.5	69.9	69.9	69.9
72.5°	139.9	118.9	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



TEST NUMBER: P248608

CATALOG NUMBER: LD8B90D010 ER8B90935 8LBSW0H

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1
2.5°	4801.1	4798.7	4803.4	4803.4	4817.4	4815.0	4822.0	4822.0	4817.4	4819.7	4829.0
5°	4817.4	4824.4	4838.3	4850.0	4870.9	4880.3	4892.0	4903.7	4906.0	4913.0	4920.0
7.5°	4817.4	4840.7	4857.0	4877.9	4906.0	4922.3	4947.9	4968.9	4978.2	4989.8	5003.8
10°	4808.0	4831.3	4861.6	4884.9	4920.0	4945.6	4971.2	5003.8	5017.8	5036.4	5055.1
12.5°	4789.4	4815.0	4847.6	4877.9	4917.6	4940.9	4973.5	5003.8	5024.8	5050.4	5071.4
15°	4761.5	4791.7	4822.0	4852.3	4894.3	4922.3	4952.6	4987.5	5008.5	5036.4	5055.1
17.5°	4717.2	4749.8	4777.8	4805.7	4845.3	4877.9	4906.0	4938.6	4959.6	4982.9	5008.5
20°	4663.5	4693.9	4724.2	4747.5	4787.1	4815.0	4845.3	4875.6	4892.0	4896.7	4936.3
22.5°	4596.0	4616.9	4640.2	4677.5	4700.9	4726.5	4754.5	4782.4	4798.7	4824.4	4838.3
25°	4484.1	4505.1	4530.7	4547.0	4575.0	4596.0	4623.9	4654.2	4663.5	4682.2	4696.2
27.5°	4328.0	4339.6	4351.3	4365.2	4381.5	4393.2	4409.5	4423.5	4432.8	4442.1	4451.4
30°	4080.9	4080.9	4080.9	4071.6	4078.6	4085.6	4087.9	4085.6	4085.6	4083.3	4083.3
32.5°	3754.6	3736.0	3715.0	3696.4	3689.4	3680.1	3675.4	3668.4	3656.8	3649.8	3652.1
35°	3314.1	3272.2	3246.6	3223.2	3204.6	3190.6	3183.6	3176.6	3174.3	3165.0	3155.6
37.5°	2764.1	2733.8	2715.2	2701.2	2684.9	2670.9	2673.2	2675.6	2682.5	2677.9	2680.2
40°	2181.4	2174.4	2181.4	2165.1	2160.4	2165.1	2176.7	2193.2	2202.5	2211.8	2228.1
42.5°	1659.4	1671.0	1687.4	1687.4	1694.3	1703.7	1717.6	1743.3	1757.2	1773.6	1792.3
45°	1249.2	1263.2	1284.2	1291.1	1295.8	1307.4	1323.8	1344.7	1354.1	1368.1	1384.4
47.5°	962.6	971.9	983.5	995.2	1006.8	1011.5	1027.8	1027.8	1039.5	1048.8	1053.4
50°	750.5	759.8	769.1	776.1	780.8	787.8	792.4	799.4	801.7	806.4	808.7
52.5°	587.3	599.0	599.0	603.6	610.6	617.6	615.3	617.6	619.9	619.9	626.9
55°	459.1	459.1	466.1	466.1	470.8	468.4	470.8	470.8	470.8	470.8	473.1
57.5°	342.6	345.0	352.0	347.3	345.0	349.6	345.0	349.6	347.3	352.0	345.0
60°	263.3	263.3	265.7	265.7	268.0	268.0	268.0	265.7	265.7	263.3	263.3
62.5°	198.1	200.4	202.8	200.4	200.4	200.4	198.1	198.1	195.8	193.4	193.4
65°	132.9	130.6	135.2	130.6	132.9	132.9	130.6	132.9	125.9	128.2	125.9
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: P248608

CATALOG NUMBER: LD8B90D010 ER8B90935 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1
2.5°	4826.7	4824.4	4826.7	4829.0	4826.7	4824.4	4826.7	4829.0	4819.7	4817.4	4822.0
5°	4929.3	4929.3	4933.9	4936.3	4933.9	4929.3	4929.3	4920.0	4913.0	4906.0	4903.7
7.5°	5017.8	5022.5	5027.1	5029.4	5027.1	5022.5	5017.8	5003.8	4989.8	4978.2	4968.9
10°	5071.4	5078.4	5087.7	5092.3	5087.7	5078.4	5071.4	5055.1	5036.4	5017.8	5003.8
12.5°	5094.7	5101.7	5113.4	5111.1	5113.4	5101.7	5094.7	5071.4	5050.4	5024.8	5003.8
15°	5078.4	5087.7	5099.4	5104.1	5099.4	5087.7	5078.4	5055.1	5036.4	5008.5	4987.5
17.5°	5027.1	5041.1	5048.1	5055.1	5048.1	5041.1	5027.1	5008.5	4982.9	4959.6	4938.6
20°	4957.2	4966.6	4975.9	4978.2	4975.9	4966.6	4957.2	4936.3	4896.7	4892.0	4875.6
22.5°	4857.0	4864.0	4884.9	4877.9	4884.9	4864.0	4857.0	4838.3	4824.4	4798.7	4782.4
25°	4712.5	4719.5	4721.9	4724.2	4721.9	4719.5	4712.5	4696.2	4682.2	4663.5	4654.2
27.5°	4463.1	4463.1	4467.7	4470.1	4467.7	4463.1	4463.1	4451.4	4442.1	4432.8	4423.5
30°	4085.6	4085.6	4085.6	4097.3	4085.6	4085.6	4085.6	4083.3	4083.3	4085.6	4085.6
32.5°	3649.8	3645.1	3640.4	3645.1	3640.4	3645.1	3649.8	3652.1	3649.8	3656.8	3668.4
35°	3155.6	3153.3	3160.3	3151.0	3160.3	3153.3	3155.6	3155.6	3165.0	3174.3	3176.6
37.5°	2682.5	2677.9	2687.2	2677.9	2687.2	2677.9	2682.5	2680.2	2677.9	2682.5	2675.6
40°	2232.8	2237.4	2237.4	2256.1	2237.4	2237.4	2232.8	2228.1	2211.8	2202.5	2193.2
42.5°	1801.6	1815.6	1810.9	1824.9	1810.9	1815.6	1801.6	1792.3	1773.6	1757.2	1743.3
45°	1393.7	1403.1	1403.1	1407.7	1403.1	1403.1	1393.7	1384.4	1368.1	1354.1	1344.7
47.5°	1069.7	1069.7	1069.7	1072.1	1069.7	1069.7	1069.7	1053.4	1048.8	1039.5	1027.8
50°	813.4	815.7	818.1	820.4	818.1	815.7	813.4	808.7	806.4	801.7	799.4
52.5°	624.6	626.9	622.3	626.9	622.3	626.9	624.6	626.9	619.9	619.9	617.6
55°	473.1	470.8	473.1	475.4	473.1	470.8	473.1	473.1	470.8	470.8	470.8
57.5°	347.3	342.6	342.6	342.6	342.6	342.6	347.3	345.0	352.0	347.3	349.6
60°	258.7	261.0	261.0	263.3	261.0	261.0	258.7	263.3	263.3	265.7	265.7
62.5°	191.1	198.1	193.4	198.1	193.4	198.1	191.1	193.4	193.4	195.8	198.1
65°	123.6	123.6	123.6	125.9	123.6	123.6	123.6	125.9	128.2	125.9	132.9
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: P248608

CATALOG NUMBER: LD8B90D010 ER8B90935 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1
2.5°	4822.0	4815.0	4817.4	4803.4	4803.4	4798.7	4801.1	4789.4	4784.8	4780.1	4787.1
5°	4892.0	4880.3	4870.9	4850.0	4838.3	4824.4	4817.4	4798.7	4782.4	4768.4	4766.1
7.5°	4947.9	4922.3	4906.0	4877.9	4857.0	4840.7	4817.4	4791.7	4770.8	4752.1	4738.2
10°	4971.2	4945.6	4920.0	4884.9	4861.6	4831.3	4808.0	4775.4	4747.5	4721.9	4705.5
12.5°	4973.5	4940.9	4917.6	4877.9	4847.6	4815.0	4789.4	4752.1	4719.5	4693.9	4668.2
15°	4952.6	4922.3	4894.3	4852.3	4822.0	4791.7	4761.5	4721.9	4691.6	4661.2	4642.6
17.5°	4906.0	4877.9	4845.3	4805.7	4777.8	4749.8	4717.2	4684.5	4649.5	4616.9	4593.6
20°	4845.3	4815.0	4787.1	4747.5	4724.2	4693.9	4663.5	4628.6	4600.6	4568.0	4542.4
22.5°	4754.5	4726.5	4700.9	4677.5	4640.2	4616.9	4596.0	4556.4	4528.4	4498.1	4470.1
25°	4623.9	4596.0	4575.0	4547.0	4530.7	4505.1	4484.1	4449.1	4423.5	4395.5	4372.2
27.5°	4409.5	4393.2	4381.5	4365.2	4351.3	4339.6	4328.0	4300.0	4281.4	4255.7	4232.4
30°	4087.9	4085.6	4078.6	4071.6	4080.9	4080.9	4080.9	4076.3	4059.9	4041.2	4024.9
32.5°	3675.4	3680.1	3689.4	3696.4	3715.0	3736.0	3754.6	3763.9	3763.9	3752.3	3745.3
35°	3183.6	3190.6	3204.6	3223.2	3246.6	3272.2	3314.1	3323.5	3330.4	3330.4	3321.1
37.5°	2673.2	2670.9	2684.9	2701.2	2715.2	2733.8	2764.1	2771.1	2782.7	2778.1	2768.7
40°	2176.7	2165.1	2160.4	2165.1	2181.4	2174.4	2181.4	2176.7	2176.7	2160.4	2160.4
42.5°	1717.6	1703.7	1694.3	1687.4	1687.4	1671.0	1659.4	1647.8	1640.8	1629.1	1626.8
45°	1323.8	1307.4	1295.8	1291.1	1284.2	1263.2	1249.2	1235.2	1218.9	1214.3	1216.6
47.5°	1027.8	1011.5	1006.8	995.2	983.5	971.9	962.6	946.3	943.9	934.6	943.9
50°	792.4	787.8	780.8	776.1	769.1	759.8	750.5	741.2	736.5	736.5	738.8
52.5°	615.3	617.6	610.6	603.6	599.0	599.0	587.3	585.0	585.0	575.7	585.0
55°	470.8	468.4	470.8	466.1	466.1	459.1	459.1	452.1	452.1	445.1	449.8
57.5°	345.0	349.6	345.0	347.3	352.0	345.0	342.6	335.6	340.3	335.6	338.0
60°	268.0	268.0	268.0	265.7	265.7	263.3	263.3	261.0	261.0	256.3	261.0
62.5°	198.1	200.4	200.4	200.4	202.8	200.4	198.1	200.4	198.1	198.1	200.4
65°	130.6	132.9	132.9	130.6	135.2	130.6	132.9	135.2	137.5	135.2	137.5
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: P248608

CATALOG NUMBER: LD8B90D010 ER8B90935 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1
2.5°	4768.4	4768.4	4766.1	4761.5	4752.1	4752.1	4749.8	4742.8	4738.2	4735.8	4735.8
5°	4745.1	4735.8	4726.5	4700.9	4700.9	4696.2	4682.2	4672.8	4668.2	4656.5	4651.9
7.5°	4724.2	4696.2	4679.8	4663.5	4642.6	4633.2	4616.9	4609.9	4593.6	4582.0	4575.0
10°	4672.8	4654.2	4633.2	4607.6	4591.3	4572.7	4554.0	4540.1	4519.1	4507.4	4498.1
12.5°	4637.9	4609.9	4591.3	4563.3	4535.4	4519.1	4493.5	4477.1	4456.1	4432.8	4418.8
15°	4605.3	4575.0	4549.4	4519.1	4488.8	4470.1	4439.8	4421.2	4390.9	4367.6	4351.3
17.5°	4556.4	4530.7	4502.8	4465.4	4437.5	4414.2	4381.5	4358.3	4330.3	4300.0	4283.7
20°	4505.1	4474.8	4446.8	4409.5	4381.5	4353.6	4321.0	4295.4	4262.6	4234.7	4216.1
22.5°	4437.5	4402.5	4379.2	4341.9	4309.3	4279.1	4248.7	4218.4	4188.1	4164.8	4143.8
25°	4339.6	4302.3	4276.7	4246.3	4216.1	4192.8	4155.5	4136.9	4106.6	4085.6	4064.6
27.5°	4199.7	4171.8	4148.5	4118.2	4092.6	4074.0	4045.9	4027.3	4001.6	3983.0	3966.7
30°	3994.7	3971.4	3950.4	3920.1	3901.5	3885.2	3859.5	3843.1	3824.5	3803.5	3798.9
32.5°	3719.7	3701.0	3680.1	3659.1	3645.1	3635.7	3614.7	3605.4	3586.8	3575.1	3563.5
35°	3304.8	3288.5	3276.9	3267.6	3262.9	3265.2	3260.6	3269.9	3274.5	3272.2	3274.5
37.5°	2761.8	2752.4	2757.1	2764.1	2787.4	2817.8	2845.7	2887.6	2915.6	2943.6	2969.2
40°	2155.8	2162.8	2181.4	2223.4	2284.0	2351.6	2414.6	2493.8	2573.0	2629.0	2680.2
42.5°	1626.8	1647.8	1694.3	1754.9	1845.9	1946.0	2044.0	2160.4	2256.1	2349.2	2414.6
45°	1223.6	1251.5	1312.1	1396.1	1496.2	1612.8	1736.3	1866.8	1981.1	2076.6	2148.8
47.5°	953.3	978.9	1039.5	1128.0	1251.5	1372.8	1500.9	1636.1	1754.9	1848.2	1911.1
50°	752.8	785.4	839.0	932.2	1055.8	1184.0	1316.8	1449.6	1561.5	1640.8	1696.7
52.5°	592.0	622.3	673.5	771.5	897.3	1025.5	1149.0	1279.5	1377.4	1454.3	1491.6
55°	459.1	487.1	540.7	622.3	741.2	867.0	990.5	1102.4	1193.3	1249.2	1284.2
57.5°	349.6	370.6	407.9	489.4	596.7	713.1	818.1	929.9	999.9	1039.5	1062.7
60°	265.7	282.0	321.7	384.6	482.4	582.7	671.2	755.2	811.1	843.7	867.0
62.5°	200.4	219.1	247.0	300.6	375.2	456.8	531.4	594.3	640.9	661.9	678.2
65°	137.5	151.5	172.5	214.4	277.3	335.6	393.9	440.5	470.8	494.1	503.4
67.5°	102.5	111.9	123.6	156.2	200.4	247.0	286.6	319.3	352.0	361.3	377.6
70°	76.9	83.9	95.5	118.9	144.5	177.1	209.8	228.4	251.7	268.0	272.7
72.5°	48.9	51.2	62.9	76.9	97.8	118.9	139.9	156.2	170.2	179.5	184.1
75°	28.0	41.9	41.9	55.9	69.9	79.2	93.2	104.9	111.9	118.9	118.9
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: P248608

CATALOG NUMBER: LD8B90D010 ER8B90935 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1	4773.1
2.5°	4731.2	4733.5	4724.2	4721.9	4717.2	4719.5	4724.2
5°	4644.9	4647.2	4637.9	4628.6	4628.6	4626.2	4628.6
7.5°	4563.3	4565.7	4551.7	4547.0	4537.7	4540.1	4540.1
10°	4481.8	4481.8	4460.8	4458.4	4451.4	4449.1	4449.1
12.5°	4402.5	4395.5	4379.2	4369.9	4374.6	4360.6	4360.6
15°	4332.6	4321.0	4300.0	4293.0	4281.4	4276.7	4276.7
17.5°	4260.3	4251.0	4232.4	4218.4	4204.4	4202.1	4204.4
20°	4190.4	4181.1	4157.8	4148.5	4136.9	4136.9	4132.2
22.5°	4120.5	4111.2	4090.3	4083.3	4067.0	4067.0	4069.3
25°	4048.2	4041.2	4017.9	4013.3	4011.0	4001.6	4006.3
27.5°	3950.4	3945.7	3927.1	3920.1	3910.8	3908.5	3913.1
30°	3770.9	3763.9	3750.0	3743.0	3726.7	3729.0	3733.6
32.5°	3547.2	3537.9	3519.2	3512.2	3498.3	3493.6	3495.9
35°	3267.6	3260.6	3244.3	3244.3	3230.3	3225.6	3230.3
37.5°	2983.2	2990.1	2983.2	2990.1	2983.2	2980.8	2983.2
40°	2715.2	2740.8	2745.4	2771.1	2761.8	2775.7	2773.4
42.5°	2458.8	2500.7	2517.1	2538.0	2533.4	2542.7	2549.7
45°	2200.1	2235.1	2251.4	2265.4	2267.7	2272.4	2274.7
47.5°	1955.3	1983.4	1985.7	2002.0	1999.7	1999.7	2006.7
50°	1727.0	1745.6	1750.2	1761.9	1752.6	1747.9	1750.2
52.5°	1514.9	1533.5	1528.8	1533.5	1521.9	1517.2	1519.5
55°	1298.1	1307.4	1307.4	1307.4	1293.5	1293.5	1293.5
57.5°	1076.7	1079.1	1074.4	1076.7	1074.4	1060.4	1058.1
60°	874.0	874.0	871.6	874.0	867.0	860.0	860.0
62.5°	682.8	687.5	696.8	687.5	682.8	687.5	680.5
65°	510.4	519.7	517.4	522.1	519.7	519.7	515.0
67.5°	384.6	386.9	389.2	391.6	391.6	391.6	391.6
70°	282.0	289.0	286.6	286.6	286.6	286.6	300.6
72.5°	188.8	198.1	195.8	200.4	200.4	205.1	200.4
75°	128.2	137.5	132.9	139.9	137.5	132.9	144.5
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)