

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: P248834

Luminaire Tested: **LD8B100D010 ER8B100940 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248834
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 ER8B100940 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8966.0 lumens
Efficiency: N/A
Efficacy: 84.3 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

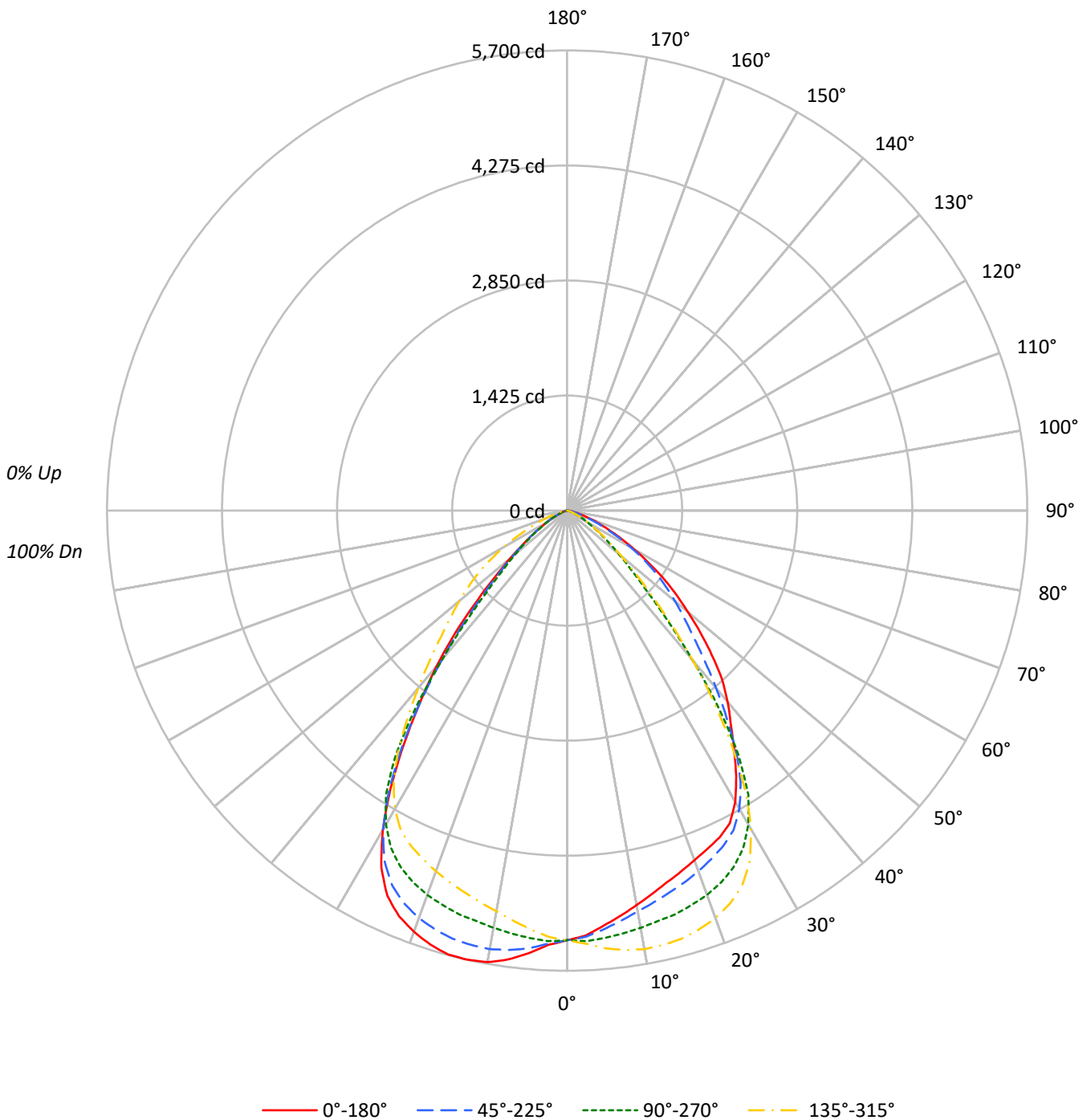
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	164136	164136	164136	164136
5°	159776	164521	170396	164521
10°	155358	164307	177818	164307
15°	152252	165281	181709	165281
20°	151216	166226	182178	166226
25°	152010	165895	179249	165895
30°	148252	159821	162694	159821
35°	135606	139419	132278	139419
40°	124501	96984	101275	96984
45°	110623	59165	68458	59165
50°	93633	39520	43890	39520
55°	77551	26967	28504	26967
60°	59150	17953	18113	17953
65°	41911	11186	10244	11186
70°	30230	7492	6798	7492
75°	19194	3717	3098	3717
80°	13389	2770	2291	2770
85°	11959	0	920	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.6	5.7
10°-20°	1467.1	16.4
20°-30°	2221.5	24.8
30°-40°	2226.5	24.8
40°-50°	1398.1	15.6
50°-60°	745.1	8.3
60°-70°	306.4	3.4
70°-80°	80.9	0.9
80°-90°	13.7	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°	4195.3	46.8
0°-40°	6421.8	71.6
0°-60°	8565.0	95.5
0°-90°	8966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8966.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5323	5323	5323	5323	5323	
5°	5162	5315	5505	5315	5162	487
15°	4769	5177	5692	5177	4769	1349
25°	4468	4876	5268	4876	4468	2049
35°	3602	3704	3514	3704	3602	2257
45°	2537	1357	1570	1357	2537	1951
55°	1442	502	530	502	1442	1286
65°	574	153	140	153	574	596
75°	161	31	26	31	161	183
85°	34	0	3	0	34	37
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°	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8
2.5°	5268.3	5263.0	5260.5	5265.7	5268.3	5278.6	5276.1	5281.2	5281.2	5283.9	5289.0
5°	5161.7	5159.0	5161.7	5161.7	5172.1	5182.5	5179.9	5187.7	5192.9	5205.9	5211.0
7.5°	5063.0	5063.0	5060.3	5070.7	5075.9	5091.5	5088.9	5101.9	5109.7	5122.7	5140.9
10°	4961.6	4961.6	4964.1	4971.9	4974.6	4997.9	4997.9	5016.1	5026.5	5039.6	5063.0
12.5°	4862.8	4862.8	4878.4	4873.2	4883.6	4901.8	4909.6	4927.8	4943.4	4969.4	4992.8
15°	4769.2	4769.2	4774.5	4787.4	4795.2	4818.6	4831.6	4852.4	4870.6	4896.6	4930.4
17.5°	4688.7	4686.1	4688.7	4704.3	4719.9	4740.7	4751.0	4777.0	4795.2	4829.0	4860.3
20°	4608.1	4613.3	4613.3	4626.3	4636.7	4662.7	4673.0	4701.7	4722.5	4753.6	4790.1
22.5°	4537.9	4535.4	4535.4	4553.5	4561.4	4584.7	4595.1	4621.1	4644.5	4670.5	4704.3
25°	4467.7	4462.5	4473.0	4475.6	4480.7	4506.7	4514.5	4532.7	4556.1	4579.5	4613.3
27.5°	4363.8	4358.6	4361.2	4371.6	4379.4	4400.1	4405.4	4423.6	4441.8	4462.5	4491.2
30°	4163.6	4158.5	4155.9	4174.1	4181.9	4197.4	4205.2	4236.5	4241.6	4265.0	4285.8
32.5°	3898.5	3895.9	3901.2	3916.7	3924.5	3945.4	3955.7	3973.9	3986.9	3999.9	4020.7
35°	3602.3	3597.1	3602.3	3617.9	3617.9	3636.1	3643.9	3651.6	3649.0	3651.6	3646.5
37.5°	3326.8	3324.1	3326.8	3334.5	3326.8	3334.5	3326.8	3311.2	3282.6	3251.4	3220.2
40°	3092.9	3095.4	3079.9	3090.3	3061.6	3056.5	3027.9	2988.9	2931.8	2869.4	2781.0
42.5°	2843.4	2835.6	2825.2	2830.3	2807.0	2788.7	2742.0	2692.7	2619.8	2515.9	2409.3
45°	2536.7	2534.1	2528.9	2526.3	2510.7	2492.5	2453.4	2396.3	2315.8	2209.2	2081.8
47.5°	2237.8	2230.0	2230.0	2232.5	2214.4	2211.8	2180.5	2131.2	2061.1	1957.1	1824.5
50°	1951.8	1949.3	1954.5	1964.9	1951.8	1946.7	1925.9	1892.1	1829.8	1741.4	1616.6
52.5°	1694.5	1692.0	1697.2	1710.2	1704.9	1710.2	1689.4	1663.4	1621.8	1536.0	1426.9
55°	1442.5	1442.5	1442.5	1458.0	1458.0	1458.0	1447.6	1432.1	1393.1	1330.7	1229.4
57.5°	1180.0	1182.5	1198.2	1200.7	1198.2	1203.4	1200.7	1185.1	1159.2	1115.0	1037.1
60°	959.1	959.1	966.9	974.7	972.0	974.7	974.7	966.9	940.9	904.5	842.1
62.5°	758.9	766.7	761.5	766.7	777.1	766.7	761.5	756.3	738.2	714.7	662.7
65°	574.4	579.6	579.6	582.2	576.9	579.6	569.2	561.4	551.0	525.1	491.2
67.5°	436.7	436.7	436.7	436.7	434.0	431.4	428.9	421.1	402.9	392.5	356.0
70°	335.3	319.7	319.7	319.7	319.7	322.3	314.5	304.1	298.9	280.7	254.7
72.5°	223.5	228.7	223.5	223.5	218.3	220.9	210.5	205.3	200.2	189.8	174.2
75°	161.1	148.2	153.3	156.0	148.2	153.3	142.9	132.5	132.5	124.7	116.9
77.5°	104.0	101.4	104.0	106.6	104.0	101.4	96.2	90.9	90.9	88.4	80.6
80°	75.4	72.7	72.7	72.7	70.2	72.7	67.6	67.6	62.4	59.8	54.6
82.5°	49.4	49.4	46.7	49.4	46.7	49.4	41.6	41.6	41.6	38.9	33.8
85°	33.8	28.6	28.6	31.2	26.0	31.2	28.6	26.0	23.4	23.4	20.8
87.5°	15.6	18.2	15.6	18.2	15.6	15.6	18.2	15.6	15.6	10.4	10.4
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°	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8
2.5°	5296.8	5299.4	5299.4	5309.9	5315.0	5317.6	5317.6	5338.4	5330.6	5335.9	5341.0
5°	5221.5	5237.0	5242.3	5242.3	5270.8	5281.2	5291.6	5315.0	5317.6	5333.2	5351.4
7.5°	5148.7	5166.9	5177.3	5200.7	5218.8	5237.0	5268.3	5283.9	5299.4	5320.3	5343.6
10°	5078.5	5099.4	5120.1	5138.3	5166.9	5190.3	5211.0	5247.4	5265.7	5294.3	5325.4
12.5°	5011.0	5039.6	5057.7	5088.9	5120.1	5140.9	5172.1	5205.9	5234.5	5263.0	5299.4
15°	4951.2	4985.0	5005.7	5039.6	5073.4	5101.9	5135.7	5177.3	5198.1	5231.9	5265.7
17.5°	4886.1	4922.6	4948.6	4979.7	5021.4	5052.5	5081.2	5122.7	5148.7	5185.0	5224.1
20°	4818.6	4855.0	4886.1	4917.4	4959.0	4990.1	5023.9	5065.5	5094.1	5130.5	5161.7
22.5°	4738.1	4771.9	4805.6	4842.0	4883.6	4909.6	4948.6	4985.0	5016.1	5049.9	5081.2
25°	4634.1	4675.7	4701.7	4735.4	4769.2	4797.8	4839.4	4875.8	4901.8	4933.0	4961.6
27.5°	4511.9	4543.2	4563.9	4592.5	4626.3	4652.3	4683.4	4719.9	4745.9	4774.5	4795.2
30°	4304.0	4332.6	4350.8	4371.6	4405.4	4428.8	4454.8	4488.5	4506.7	4527.6	4545.7
32.5°	4031.1	4054.5	4064.9	4080.5	4103.9	4127.2	4148.1	4176.7	4184.5	4197.4	4197.4
35°	3636.1	3641.2	3638.7	3643.9	3654.3	3667.2	3685.4	3703.6	3714.0	3714.0	3706.3
37.5°	3173.4	3142.3	3108.5	3082.5	3074.7	3069.4	3079.9	3087.6	3098.1	3103.2	3090.3
40°	2692.7	2622.5	2547.1	2479.4	2432.7	2411.9	2404.1	2409.3	2409.3	2427.5	2427.5
42.5°	2279.4	2170.2	2058.5	1957.1	1889.5	1837.6	1814.1	1814.1	1816.7	1829.8	1837.6
45°	1936.3	1798.5	1668.5	1556.9	1463.3	1395.6	1364.5	1356.7	1354.1	1359.3	1377.5
47.5°	1673.8	1530.9	1395.6	1258.0	1159.2	1091.6	1063.0	1052.6	1042.2	1052.6	1055.2
50°	1468.5	1320.3	1177.4	1039.6	935.6	875.8	839.5	823.8	821.3	821.3	826.5
52.5°	1281.3	1143.6	1000.7	860.3	751.1	694.0	660.2	652.4	642.0	652.4	652.4
55°	1104.6	966.9	826.5	694.0	602.9	543.2	512.0	501.6	496.4	504.2	504.2
57.5°	912.3	795.3	665.4	545.8	454.9	413.3	389.8	376.9	374.2	379.5	374.2
60°	748.5	649.8	538.0	428.9	358.7	314.5	296.3	291.1	285.8	291.1	291.1
62.5°	592.6	509.4	418.4	335.3	275.5	244.3	223.5	223.5	220.9	220.9	223.5
65°	439.3	374.2	309.3	239.1	192.3	168.9	153.3	153.3	150.7	153.3	150.7
67.5°	319.7	275.5	223.5	174.2	137.8	124.7	114.4	106.6	111.8	106.6	104.0
70°	234.0	197.5	161.1	132.5	106.6	93.6	85.8	83.1	78.0	78.0	78.0
72.5°	156.0	132.5	109.1	85.8	70.2	57.1	54.6	49.4	44.2	46.7	52.0
75°	104.0	88.4	78.0	62.4	46.7	46.7	31.2	31.2	26.0	31.2	23.4
77.5°	72.7	59.8	46.7	38.9	31.2	28.6	20.8	20.8	18.2	18.2	18.2
80°	52.0	44.2	33.8	28.6	20.8	20.8	18.2	15.6	12.9	12.9	15.6
82.5°	31.2	23.4	23.4	20.8	12.9	10.4	7.8	10.4	5.2	5.2	5.2
85°	18.2	15.6	12.9	7.8	5.2	5.2	2.6	0.0	2.6	2.6	0.0
87.5°	10.4	5.2	5.2	2.6	0.0	2.6	2.6	0.0	0.0	0.0	5.2
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°	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8
2.5°	5354.1	5351.4	5356.6	5356.6	5372.3	5369.6	5377.4	5377.4	5372.3	5374.8	5385.2
5°	5372.3	5380.1	5395.6	5408.6	5431.9	5442.4	5455.4	5468.4	5471.0	5478.8	5486.6
7.5°	5372.3	5398.3	5416.4	5439.8	5471.0	5489.2	5517.7	5541.2	5551.6	5564.5	5580.1
10°	5361.8	5387.8	5421.6	5447.6	5486.6	5515.2	5543.7	5580.1	5595.7	5616.5	5637.3
12.5°	5341.0	5369.6	5406.0	5439.8	5483.9	5509.9	5546.3	5580.1	5603.5	5632.1	5655.5
15°	5309.9	5343.6	5377.4	5411.2	5457.9	5489.2	5523.0	5561.9	5585.4	5616.5	5637.3
17.5°	5260.5	5296.8	5328.1	5359.2	5403.4	5439.8	5471.0	5507.4	5530.8	5556.8	5585.4
20°	5200.7	5234.5	5268.3	5294.3	5338.4	5369.6	5403.4	5437.2	5455.4	5460.6	5504.8
22.5°	5125.3	5148.7	5174.7	5216.3	5242.3	5270.8	5302.1	5333.2	5351.4	5380.1	5395.6
25°	5000.5	5023.9	5052.5	5070.7	5101.9	5125.3	5156.5	5190.3	5200.7	5221.5	5237.0
27.5°	4826.4	4839.4	4852.4	4868.0	4886.1	4899.2	4917.4	4933.0	4943.4	4953.8	4964.1
30°	4550.9	4550.9	4550.9	4540.5	4548.3	4556.1	4558.7	4556.1	4556.1	4553.5	4553.5
32.5°	4187.0	4166.3	4142.9	4122.1	4114.3	4103.9	4098.7	4090.9	4077.9	4070.1	4072.7
35°	3695.8	3649.0	3620.5	3594.5	3573.7	3558.1	3550.3	3542.5	3539.9	3529.5	3519.1
37.5°	3082.5	3048.7	3027.9	3012.3	2994.1	2978.5	2981.1	2983.7	2991.4	2986.3	2988.9
40°	2432.7	2424.9	2432.7	2414.5	2409.3	2414.5	2427.5	2445.7	2456.1	2466.5	2484.7
42.5°	1850.5	1863.5	1881.8	1881.8	1889.5	1899.9	1915.5	1944.1	1959.6	1977.8	1998.7
45°	1393.1	1408.7	1432.1	1439.8	1445.1	1458.0	1476.3	1499.6	1510.0	1525.6	1543.8
47.5°	1073.4	1083.8	1096.7	1109.8	1122.7	1128.0	1146.2	1146.2	1159.2	1169.6	1174.7
50°	836.9	847.3	857.6	865.5	870.7	878.5	883.6	891.5	894.0	899.3	901.8
52.5°	654.9	668.0	668.0	673.1	680.9	688.7	686.2	688.7	691.3	691.3	699.1
55°	512.0	512.0	519.8	519.8	525.1	522.4	525.1	525.1	525.1	525.1	527.6
57.5°	382.0	384.7	392.5	387.3	384.7	389.8	384.7	389.8	387.3	392.5	384.7
60°	293.7	293.7	296.3	296.3	298.9	298.9	298.9	296.3	296.3	293.7	293.7
62.5°	220.9	223.5	226.2	223.5	223.5	223.5	220.9	220.9	218.3	215.7	215.7
65°	148.2	145.6	150.7	145.6	148.2	148.2	145.6	148.2	140.4	142.9	140.4
67.5°	106.6	104.0	101.4	104.0	101.4	98.7	98.7	101.4	104.0	96.2	96.2
70°	70.2	72.7	70.2	72.7	75.4	75.4	72.7	70.2	72.7	67.6	70.2
72.5°	44.2	44.2	44.2	44.2	44.2	46.7	46.7	46.7	41.6	41.6	38.9
75°	20.8	28.6	23.4	20.8	28.6	28.6	26.0	26.0	23.4	23.4	23.4
77.5°	20.8	15.6	15.6	15.6	15.6	15.6	15.6	15.6	12.9	15.6	12.9
80°	10.4	10.4	10.4	7.8	10.4	10.4	12.9	10.4	10.4	7.8	12.9
82.5°	5.2	5.2	5.2	0.0	2.6	5.2	5.2	2.6	5.2	5.2	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: P248834

CATALOG NUMBER: LD8B100D010 ER8B100940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8
2.5°	5382.6	5380.1	5382.6	5385.2	5382.6	5380.1	5382.6	5385.2	5374.8	5372.3	5377.4
5°	5497.0	5497.0	5502.1	5504.8	5502.1	5497.0	5497.0	5486.6	5478.8	5471.0	5468.4
7.5°	5595.7	5601.0	5606.1	5608.7	5606.1	5601.0	5595.7	5580.1	5564.5	5551.6	5541.2
10°	5655.5	5663.3	5673.7	5678.9	5673.7	5663.3	5655.5	5637.3	5616.5	5595.7	5580.1
12.5°	5681.5	5689.3	5702.3	5699.7	5702.3	5689.3	5681.5	5655.5	5632.1	5603.5	5580.1
15°	5663.3	5673.7	5686.7	5691.9	5686.7	5673.7	5663.3	5637.3	5616.5	5585.4	5561.9
17.5°	5606.1	5621.7	5629.5	5637.3	5629.5	5621.7	5606.1	5585.4	5556.8	5530.8	5507.4
20°	5528.1	5538.6	5549.0	5551.6	5549.0	5538.6	5528.1	5504.8	5460.6	5455.4	5437.2
22.5°	5416.4	5424.2	5447.6	5439.8	5447.6	5424.2	5416.4	5395.6	5380.1	5351.4	5333.2
25°	5255.2	5263.0	5265.7	5268.3	5265.7	5263.0	5255.2	5237.0	5221.5	5200.7	5190.3
27.5°	4977.2	4977.2	4982.3	4985.0	4982.3	4977.2	4977.2	4964.1	4953.8	4943.4	4933.0
30°	4556.1	4556.1	4556.1	4569.2	4556.1	4556.1	4556.1	4553.5	4553.5	4556.1	4556.1
32.5°	4070.1	4064.9	4059.7	4064.9	4059.7	4064.9	4070.1	4072.7	4070.1	4077.9	4090.9
35°	3519.1	3516.5	3524.3	3513.9	3524.3	3516.5	3519.1	3519.1	3529.5	3539.9	3542.5
37.5°	2991.4	2986.3	2996.7	2986.3	2996.7	2986.3	2991.4	2988.9	2986.3	2991.4	2983.7
40°	2489.9	2495.1	2495.1	2515.9	2495.1	2495.1	2489.9	2484.7	2466.5	2456.1	2445.7
42.5°	2009.1	2024.7	2019.4	2035.1	2019.4	2024.7	2009.1	1998.7	1977.8	1959.6	1944.1
45°	1554.2	1564.7	1564.7	1569.8	1564.7	1564.7	1554.2	1543.8	1525.6	1510.0	1499.6
47.5°	1192.9	1192.9	1192.9	1195.6	1192.9	1192.9	1192.9	1174.7	1169.6	1159.2	1146.2
50°	907.1	909.6	912.3	914.9	912.3	909.6	907.1	901.8	899.3	894.0	891.5
52.5°	696.5	699.1	694.0	699.1	694.0	699.1	696.5	699.1	691.3	691.3	688.7
55°	527.6	525.1	527.6	530.2	527.6	525.1	527.6	527.6	525.1	525.1	525.1
57.5°	387.3	382.0	382.0	382.0	382.0	382.0	387.3	384.7	392.5	387.3	389.8
60°	288.5	291.1	291.1	293.7	291.1	291.1	288.5	293.7	293.7	296.3	296.3
62.5°	213.1	220.9	215.7	220.9	215.7	220.9	213.1	215.7	215.7	218.3	220.9
65°	137.8	137.8	137.8	140.4	137.8	137.8	137.8	140.4	142.9	140.4	148.2
67.5°	93.6	96.2	101.4	98.7	101.4	96.2	93.6	96.2	96.2	104.0	101.4
70°	75.4	67.6	67.6	75.4	67.6	67.6	75.4	70.2	67.6	72.7	70.2
72.5°	44.2	38.9	44.2	44.2	44.2	38.9	44.2	38.9	41.6	41.6	46.7
75°	23.4	20.8	18.2	26.0	18.2	20.8	23.4	23.4	23.4	23.4	26.0
77.5°	15.6	12.9	18.2	18.2	18.2	12.9	15.6	12.9	15.6	12.9	15.6
80°	7.8	10.4	7.8	12.9	7.8	10.4	7.8	12.9	7.8	10.4	10.4
82.5°	2.6	5.2	5.2	5.2	5.2	5.2	2.6	2.6	5.2	5.2	2.6
85°	0.0	5.2	2.6	2.6	2.6	5.2	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: P248834

CATALOG NUMBER: LD8B100D010 ER8B100940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8
2.5°	5377.4	5369.6	5372.3	5356.6	5356.6	5351.4	5354.1	5341.0	5335.9	5330.6	5338.4
5°	5455.4	5442.4	5431.9	5408.6	5395.6	5380.1	5372.3	5351.4	5333.2	5317.6	5315.0
7.5°	5517.7	5489.2	5471.0	5439.8	5416.4	5398.3	5372.3	5343.6	5320.3	5299.4	5283.9
10°	5543.7	5515.2	5486.6	5447.6	5421.6	5387.8	5361.8	5325.4	5294.3	5265.7	5247.4
12.5°	5546.3	5509.9	5483.9	5439.8	5406.0	5369.6	5341.0	5299.4	5263.0	5234.5	5205.9
15°	5523.0	5489.2	5457.9	5411.2	5377.4	5343.6	5309.9	5265.7	5231.9	5198.1	5177.3
17.5°	5471.0	5439.8	5403.4	5359.2	5328.1	5296.8	5260.5	5224.1	5185.0	5148.7	5122.7
20°	5403.4	5369.6	5338.4	5294.3	5268.3	5234.5	5200.7	5161.7	5130.5	5094.1	5065.5
22.5°	5302.1	5270.8	5242.3	5216.3	5174.7	5148.7	5125.3	5081.2	5049.9	5016.1	4985.0
25°	5156.5	5125.3	5101.9	5070.7	5052.5	5023.9	5000.5	4961.6	4933.0	4901.8	4875.8
27.5°	4917.4	4899.2	4886.1	4868.0	4852.4	4839.4	4826.4	4795.2	4774.5	4745.9	4719.9
30°	4558.7	4556.1	4548.3	4540.5	4550.9	4550.9	4550.9	4545.7	4527.6	4506.7	4488.5
32.5°	4098.7	4103.9	4114.3	4122.1	4142.9	4166.3	4187.0	4197.4	4197.4	4184.5	4176.7
35°	3550.3	3558.1	3573.7	3594.5	3620.5	3649.0	3695.8	3706.3	3714.0	3714.0	3703.6
37.5°	2981.1	2978.5	2994.1	3012.3	3027.9	3048.7	3082.5	3090.3	3103.2	3098.1	3087.6
40°	2427.5	2414.5	2409.3	2414.5	2432.7	2424.9	2432.7	2427.5	2427.5	2409.3	2409.3
42.5°	1915.5	1899.9	1889.5	1881.8	1881.8	1863.5	1850.5	1837.6	1829.8	1816.7	1814.1
45°	1476.3	1458.0	1445.1	1439.8	1432.1	1408.7	1393.1	1377.5	1359.3	1354.1	1356.7
47.5°	1146.2	1128.0	1122.7	1109.8	1096.7	1083.8	1073.4	1055.2	1052.6	1042.2	1052.6
50°	883.6	878.5	870.7	865.5	857.6	847.3	836.9	826.5	821.3	821.3	823.8
52.5°	686.2	688.7	680.9	673.1	668.0	668.0	654.9	652.4	652.4	642.0	652.4
55°	525.1	522.4	525.1	519.8	519.8	512.0	512.0	504.2	504.2	496.4	501.6
57.5°	384.7	389.8	384.7	387.3	392.5	384.7	382.0	374.2	379.5	374.2	376.9
60°	298.9	298.9	298.9	296.3	296.3	293.7	293.7	291.1	291.1	285.8	291.1
62.5°	220.9	223.5	223.5	223.5	226.2	223.5	220.9	223.5	220.9	220.9	223.5
65°	145.6	148.2	148.2	145.6	150.7	145.6	148.2	150.7	153.3	150.7	153.3
67.5°	98.7	98.7	101.4	104.0	101.4	104.0	106.6	104.0	106.6	111.8	106.6
70°	72.7	75.4	75.4	72.7	70.2	72.7	70.2	78.0	78.0	78.0	83.1
72.5°	46.7	46.7	44.2	44.2	44.2	44.2	44.2	52.0	46.7	44.2	49.4
75°	26.0	28.6	28.6	20.8	23.4	28.6	20.8	23.4	31.2	26.0	31.2
77.5°	15.6	15.6	15.6	15.6	15.6	15.6	20.8	18.2	18.2	18.2	20.8
80°	12.9	10.4	10.4	7.8	10.4	10.4	10.4	15.6	12.9	12.9	15.6
82.5°	5.2	5.2	2.6	0.0	5.2	5.2	5.2	5.2	5.2	5.2	10.4
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	5.2	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: P248834

CATALOG NUMBER: LD8B100D010 ER8B100940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8
2.5°	5317.6	5317.6	5315.0	5309.9	5299.4	5299.4	5296.8	5289.0	5283.9	5281.2	5281.2
5°	5291.6	5281.2	5270.8	5242.3	5242.3	5237.0	5221.5	5211.0	5205.9	5192.9	5187.7
7.5°	5268.3	5237.0	5218.8	5200.7	5177.3	5166.9	5148.7	5140.9	5122.7	5109.7	5101.9
10°	5211.0	5190.3	5166.9	5138.3	5120.1	5099.4	5078.5	5063.0	5039.6	5026.5	5016.1
12.5°	5172.1	5140.9	5120.1	5088.9	5057.7	5039.6	5011.0	4992.8	4969.4	4943.4	4927.8
15°	5135.7	5101.9	5073.4	5039.6	5005.7	4985.0	4951.2	4930.4	4896.6	4870.6	4852.4
17.5°	5081.2	5052.5	5021.4	4979.7	4948.6	4922.6	4886.1	4860.3	4829.0	4795.2	4777.0
20°	5023.9	4990.1	4959.0	4917.4	4886.1	4855.0	4818.6	4790.1	4753.6	4722.5	4701.7
22.5°	4948.6	4909.6	4883.6	4842.0	4805.6	4771.9	4738.1	4704.3	4670.5	4644.5	4621.1
25°	4839.4	4797.8	4769.2	4735.4	4701.7	4675.7	4634.1	4613.3	4579.5	4556.1	4532.7
27.5°	4683.4	4652.3	4626.3	4592.5	4563.9	4543.2	4511.9	4491.2	4462.5	4441.8	4423.6
30°	4454.8	4428.8	4405.4	4371.6	4350.8	4332.6	4304.0	4285.8	4265.0	4241.6	4236.5
32.5°	4148.1	4127.2	4103.9	4080.5	4064.9	4054.5	4031.1	4020.7	3999.9	3986.9	3973.9
35°	3685.4	3667.2	3654.3	3643.9	3638.7	3641.2	3636.1	3646.5	3651.6	3649.0	3651.6
37.5°	3079.9	3069.4	3074.7	3082.5	3108.5	3142.3	3173.4	3220.2	3251.4	3282.6	3311.2
40°	2404.1	2411.9	2432.7	2479.4	2547.1	2622.5	2692.7	2781.0	2869.4	2931.8	2988.9
42.5°	1814.1	1837.6	1889.5	1957.1	2058.5	2170.2	2279.4	2409.3	2515.9	2619.8	2692.7
45°	1364.5	1395.6	1463.3	1556.9	1668.5	1798.5	1936.3	2081.8	2209.2	2315.8	2396.3
47.5°	1063.0	1091.6	1159.2	1258.0	1395.6	1530.9	1673.8	1824.5	1957.1	2061.1	2131.2
50°	839.5	875.8	935.6	1039.6	1177.4	1320.3	1468.5	1616.6	1741.4	1829.8	1892.1
52.5°	660.2	694.0	751.1	860.3	1000.7	1143.6	1281.3	1426.9	1536.0	1621.8	1663.4
55°	512.0	543.2	602.9	694.0	826.5	966.9	1104.6	1229.4	1330.7	1393.1	1432.1
57.5°	389.8	413.3	454.9	545.8	665.4	795.3	912.3	1037.1	1115.0	1159.2	1185.1
60°	296.3	314.5	358.7	428.9	538.0	649.8	748.5	842.1	904.5	940.9	966.9
62.5°	223.5	244.3	275.5	335.3	418.4	509.4	592.6	662.7	714.7	738.2	756.3
65°	153.3	168.9	192.3	239.1	309.3	374.2	439.3	491.2	525.1	551.0	561.4
67.5°	114.4	124.7	137.8	174.2	223.5	275.5	319.7	356.0	392.5	402.9	421.1
70°	85.8	93.6	106.6	132.5	161.1	197.5	234.0	254.7	280.7	298.9	304.1
72.5°	54.6	57.1	70.2	85.8	109.1	132.5	156.0	174.2	189.8	200.2	205.3
75°	31.2	46.7	46.7	62.4	78.0	88.4	104.0	116.9	124.7	132.5	132.5
77.5°	20.8	28.6	31.2	38.9	46.7	59.8	72.7	80.6	88.4	90.9	90.9
80°	18.2	20.8	20.8	28.6	33.8	44.2	52.0	54.6	59.8	62.4	67.6
82.5°	7.8	10.4	12.9	20.8	23.4	23.4	31.2	33.8	38.9	41.6	41.6
85°	2.6	5.2	5.2	7.8	12.9	15.6	18.2	20.8	23.4	23.4	26.0
87.5°	2.6	2.6	0.0	2.6	5.2	5.2	10.4	10.4	10.4	15.6	15.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248834

CATALOG NUMBER: LD8B100D010 ER8B100940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8	5322.8
2.5°	5276.1	5278.6	5268.3	5265.7	5260.5	5263.0	5268.3
5°	5179.9	5182.5	5172.1	5161.7	5161.7	5159.0	5161.7
7.5°	5088.9	5091.5	5075.9	5070.7	5060.3	5063.0	5063.0
10°	4997.9	4997.9	4974.6	4971.9	4964.1	4961.6	4961.6
12.5°	4909.6	4901.8	4883.6	4873.2	4878.4	4862.8	4862.8
15°	4831.6	4818.6	4795.2	4787.4	4774.5	4769.2	4769.2
17.5°	4751.0	4740.7	4719.9	4704.3	4688.7	4686.1	4688.7
20°	4673.0	4662.7	4636.7	4626.3	4613.3	4613.3	4608.1
22.5°	4595.1	4584.7	4561.4	4553.5	4535.4	4535.4	4537.9
25°	4514.5	4506.7	4480.7	4475.6	4473.0	4462.5	4467.7
27.5°	4405.4	4400.1	4379.4	4371.6	4361.2	4358.6	4363.8
30°	4205.2	4197.4	4181.9	4174.1	4155.9	4158.5	4163.6
32.5°	3955.7	3945.4	3924.5	3916.7	3901.2	3895.9	3898.5
35°	3643.9	3636.1	3617.9	3617.9	3602.3	3597.1	3602.3
37.5°	3326.8	3334.5	3326.8	3334.5	3326.8	3324.1	3326.8
40°	3027.9	3056.5	3061.6	3090.3	3079.9	3095.4	3092.9
42.5°	2742.0	2788.7	2807.0	2830.3	2825.2	2835.6	2843.4
45°	2453.4	2492.5	2510.7	2526.3	2528.9	2534.1	2536.7
47.5°	2180.5	2211.8	2214.4	2232.5	2230.0	2230.0	2237.8
50°	1925.9	1946.7	1951.8	1964.9	1954.5	1949.3	1951.8
52.5°	1689.4	1710.2	1704.9	1710.2	1697.2	1692.0	1694.5
55°	1447.6	1458.0	1458.0	1458.0	1442.5	1442.5	1442.5
57.5°	1200.7	1203.4	1198.2	1200.7	1198.2	1182.5	1180.0
60°	974.7	974.7	972.0	974.7	966.9	959.1	959.1
62.5°	761.5	766.7	777.1	766.7	761.5	766.7	758.9
65°	569.2	579.6	576.9	582.2	579.6	579.6	574.4
67.5°	428.9	431.4	434.0	436.7	436.7	436.7	436.7
70°	314.5	322.3	319.7	319.7	319.7	319.7	335.3
72.5°	210.5	220.9	218.3	223.5	223.5	228.7	223.5
75°	142.9	153.3	148.2	156.0	153.3	148.2	161.1
77.5°	96.2	101.4	104.0	106.6	104.0	101.4	104.0
80°	67.6	72.7	70.2	72.7	72.7	72.7	75.4
82.5°	41.6	49.4	46.7	49.4	46.7	49.4	49.4
85°	28.6	31.2	26.0	31.2	28.6	28.6	33.8
87.5°	18.2	15.6	15.6	18.2	15.6	18.2	15.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)