

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: P250905

Luminaire Tested: **LD8B70D010 ER8B70940 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250905
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B70D010 ER8B70940 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

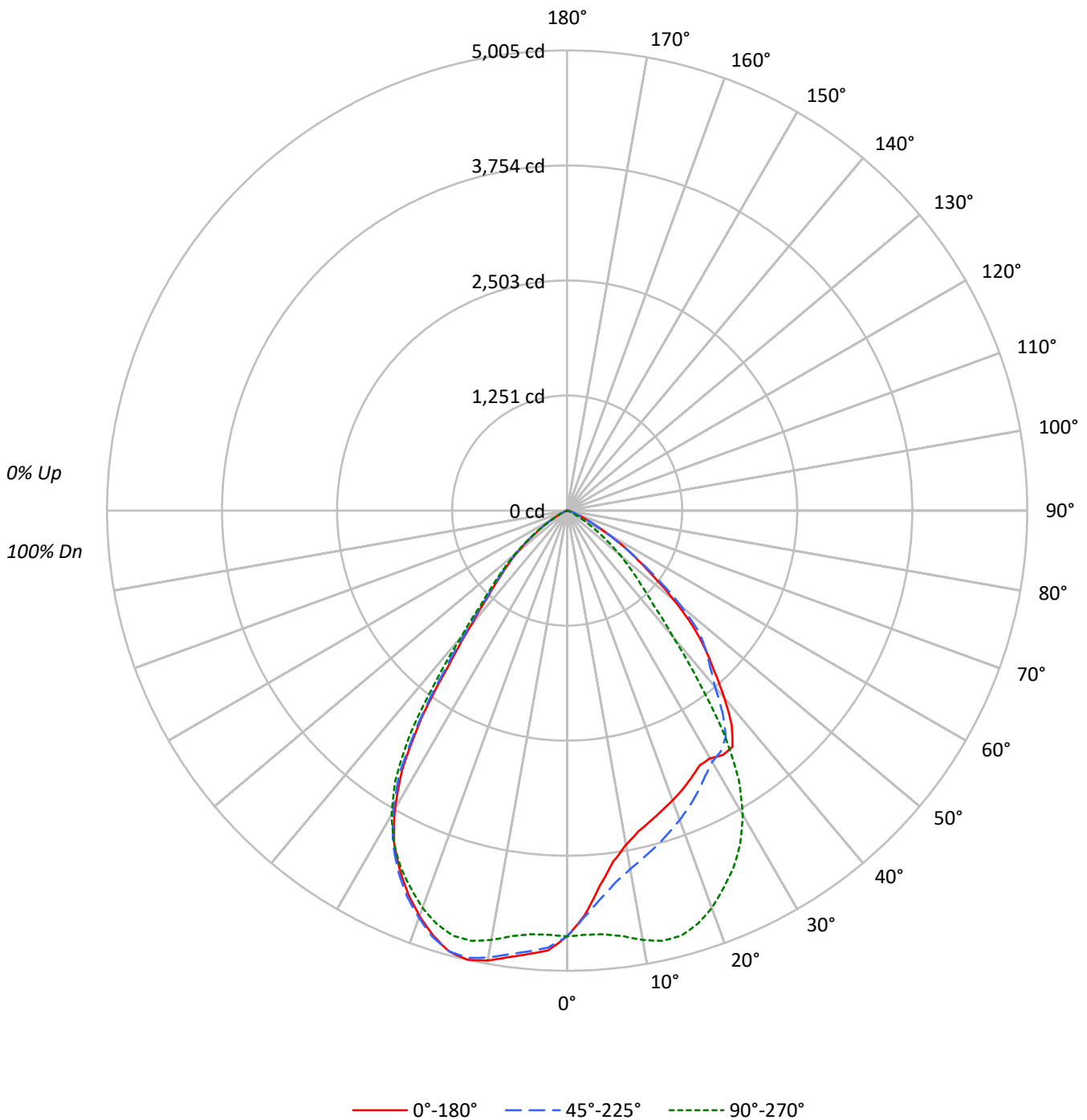
Lumens per Lamp: N/A
Luminaire Lumens: 7089.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 75.9
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



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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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67					67			
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60					60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	142806	142806	142806
5°	126704	143163	149867
10°	115519	148475	155564
15°	111642	152814	158526
20°	110046	150934	154048
25°	108966	145729	146641
30°	110740	136000	133486
35°	118041	112545	104391
40°	106975	72051	65244
45°	92329	49296	45899
50°	72851	35956	33854
55°	50568	22112	20800
60°	32193	11181	9979
65°	16067	4436	3371
70°	8890	2191	1208
75°	6374	1597	584
80°	5185	1083	213
85°	5590	849	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.6	6.1
10°-20°	1246.7	17.6
20°-30°	1809.5	25.5
30°-40°	1782.1	25.1
40°-50°	1117.1	15.8
50°-60°	539.1	7.6
60°-70°	130.5	1.8
70°-80°	26.4	0.4
80°-90°	6.1	0.1
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°	3487.8	49.2
0°-40°	5269.9	74.3
0°-60°	6926.1	97.7
0°-90°	7089.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7089.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4631	4631	4631	4631	4631	
5°	4093	4232	4625	4812	4842	379
15°	3497	3772	4787	4962	4966	989
25°	3203	3369	4283	4342	4310	1482
35°	3136	3008	2990	2819	2773	1897
45°	2117	2132	1130	1083	1052	1619
55°	941	971	411	406	387	865
65°	220	218	61	52	46	251
75°	54	46	13	6	5	60
85°	16	12	2	0	0	16
90°	0	0	0	0	0	



TEST NUMBER: P250905

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4631.1	4631.1	4631.1	4631.1	4631.1	4631.1	4631.1	4631.1	4631.1	4631.1	4631.1
2.5°	4402.3	4374.4	4322.0	4385.3	4385.3	4350.0	4420.6	4378.0	4412.1	4465.6	4418.2
5°	4093.3	4070.2	4026.4	4093.3	4101.8	4068.9	4154.1	4122.5	4172.4	4238.1	4232.0
7.5°	3848.7	3819.5	3779.3	3848.7	3862.1	3840.2	3921.7	3907.1	3972.8	4058.0	4072.6
10°	3689.3	3658.9	3623.6	3686.9	3696.6	3682.0	3764.7	3756.2	3820.7	3919.3	3958.2
12.5°	3576.1	3550.6	3511.7	3578.6	3589.5	3568.8	3646.7	3643.1	3710.0	3813.4	3862.1
15°	3497.1	3466.6	3431.3	3488.5	3503.1	3480.0	3554.2	3546.9	3615.1	3717.3	3772.0
17.5°	3422.8	3394.8	3358.3	3411.9	3426.5	3402.1	3475.2	3463.0	3521.4	3618.7	3674.7
20°	3353.5	3323.1	3290.2	3345.0	3353.5	3325.5	3398.5	3382.7	3435.0	3525.0	3579.8
22.5°	3281.7	3250.0	3216.0	3269.5	3278.0	3250.0	3317.0	3298.7	3347.4	3428.9	3478.8
25°	3202.6	3173.4	3139.3	3189.2	3196.5	3166.1	3236.7	3213.5	3256.1	3327.9	3369.3
27.5°	3123.5	3095.5	3057.8	3108.9	3112.5	3083.3	3147.8	3116.2	3151.5	3217.2	3252.5
30°	3110.1	3078.5	3039.5	3080.9	3082.1	3044.4	3105.2	3067.5	3087.0	3135.7	3156.4
32.5°	3152.7	3121.1	3080.9	3115.0	3111.3	3070.0	3128.4	3082.1	3088.2	3113.8	3108.9
35°	3135.7	3097.9	3050.5	3087.0	3087.0	3037.1	3095.5	3040.8	3034.7	3038.3	3007.9
37.5°	2942.2	2913.0	2868.0	2903.3	2899.6	2861.9	2906.9	2861.9	2841.2	2832.7	2777.9
40°	2657.5	2622.2	2588.1	2625.8	2629.5	2589.3	2647.7	2596.6	2590.5	2566.2	2501.7
42.5°	2369.1	2356.9	2324.1	2355.7	2372.7	2338.7	2387.3	2363.0	2366.7	2360.6	2299.7
45°	2117.2	2096.5	2072.2	2108.7	2119.6	2102.6	2151.3	2136.7	2151.3	2181.7	2131.8
47.5°	1845.9	1825.2	1798.4	1837.4	1856.8	1825.2	1866.6	1861.7	1883.6	1935.9	1931.0
50°	1518.6	1504.0	1499.1	1504.0	1516.1	1501.5	1530.7	1531.9	1546.5	1618.3	1623.2
52.5°	1202.2	1198.5	1181.5	1197.3	1197.3	1174.2	1203.4	1190.0	1204.6	1253.3	1284.9
55°	940.6	936.9	926.0	940.6	924.8	916.2	924.8	911.4	900.4	938.1	971.0
57.5°	732.5	720.3	707.0	713.0	711.8	693.6	703.3	687.5	679.0	692.4	721.6
60°	522.0	518.4	506.2	512.3	517.1	503.8	513.5	506.2	491.6	502.5	503.8
62.5°	346.8	349.2	341.9	343.1	339.5	337.1	343.1	346.8	343.1	338.3	339.5
65°	220.2	219.0	217.8	219.0	221.5	216.6	220.2	222.7	219.0	219.0	217.8
67.5°	146.0	142.4	138.7	141.1	143.6	139.9	143.6	142.4	143.6	142.4	138.7
70°	98.6	97.3	96.1	97.3	97.3	94.9	97.3	96.1	97.3	96.1	92.5
72.5°	71.8	71.8	70.6	71.8	71.8	69.4	70.6	68.1	69.4	68.1	65.7
75°	53.5	53.5	52.3	53.5	52.3	51.1	52.3	51.1	48.7	48.7	46.2
77.5°	38.9	38.9	38.9	38.9	38.9	37.7	37.7	36.5	35.3	34.1	34.1
80°	29.2	28.0	28.0	28.0	28.0	26.8	28.0	26.8	25.6	24.3	23.1
82.5°	20.7	21.9	20.7	20.7	20.7	19.5	20.7	19.5	19.5	18.3	15.8
85°	15.8	15.8	15.8	15.8	15.8	14.6	14.6	14.6	13.4	13.4	12.2
87.5°	8.5	8.5	8.5	9.7	8.5	8.5	8.5	7.3	7.3	6.1	6.1
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4631.1	4631.1	4631.1	4631.1	4631.1	4631.1	4631.1	4631.1	4631.1	4631.1	4631.1
2.5°	4481.4	4487.5	4474.1	4494.8	4575.1	4510.6	4537.4	4545.9	4606.8	4617.7	4610.4
5°	4311.1	4337.9	4354.9	4401.1	4490.0	4443.7	4491.2	4521.6	4599.5	4625.0	4631.1
7.5°	4177.2	4233.2	4274.6	4350.0	4454.7	4419.4	4491.2	4541.1	4636.0	4668.8	4684.6
10°	4077.5	4162.6	4234.4	4337.9	4455.9	4432.8	4526.5	4597.0	4702.9	4741.8	4761.3
12.5°	4002.0	4105.4	4201.6	4333.0	4460.7	4449.8	4563.0	4643.3	4755.2	4794.1	4817.3
15°	3919.3	4038.5	4150.5	4297.7	4435.2	4432.8	4554.4	4639.6	4754.0	4786.8	4808.8
17.5°	3820.7	3948.5	4071.4	4230.8	4367.1	4369.5	4492.4	4576.3	4688.3	4715.1	4729.7
20°	3720.9	3847.5	3970.4	4134.6	4268.5	4272.1	4392.6	4470.5	4577.6	4599.5	4603.1
22.5°	3615.1	3733.1	3856.0	4019.1	4148.0	4150.5	4269.7	4342.7	4434.0	4444.9	4454.7
25°	3494.6	3610.2	3725.8	3887.6	4010.5	4017.8	4126.1	4190.6	4274.6	4283.1	4286.7
27.5°	3369.3	3464.2	3574.9	3713.6	3837.8	3832.9	3935.1	4008.1	4083.5	4078.7	4077.5
30°	3242.7	3321.8	3390.0	3523.8	3615.1	3618.7	3714.9	3750.1	3829.2	3819.5	3818.3
32.5°	3153.9	3174.6	3192.9	3261.0	3347.4	3317.0	3382.7	3426.5	3481.2	3477.6	3478.8
35°	2990.9	2953.1	2898.4	2908.1	2960.4	2913.0	2948.3	2947.1	3003.0	2989.7	3005.5
37.5°	2712.2	2605.1	2483.5	2414.1	2423.8	2364.2	2352.1	2381.3	2400.7	2363.0	2376.4
40°	2415.3	2257.1	2067.3	1909.1	1900.6	1826.4	1813.0	1783.8	1821.5	1789.9	1799.6
42.5°	2196.3	1987.0	1737.6	1545.3	1504.0	1441.9	1405.4	1400.5	1411.5	1389.6	1383.5
45°	2028.4	1805.7	1519.8	1299.5	1253.3	1186.4	1149.9	1136.5	1137.7	1130.4	1124.3
47.5°	1831.3	1607.4	1317.8	1092.7	1040.4	977.1	940.6	932.1	936.9	927.2	919.9
50°	1558.7	1357.9	1093.9	888.3	842.0	795.8	766.6	758.1	756.8	749.5	744.7
52.5°	1265.5	1098.8	870.0	698.4	657.1	612.0	591.4	580.4	581.6	574.3	567.0
55°	979.5	876.1	674.1	528.1	490.4	455.1	435.6	422.2	418.6	411.3	407.6
57.5°	728.9	659.5	505.0	380.9	359.0	324.9	305.4	289.6	287.2	283.5	282.3
60°	511.1	461.2	355.3	271.3	245.8	225.1	205.6	189.8	182.5	181.3	177.7
62.5°	331.0	300.5	233.6	181.3	161.8	147.2	127.8	116.8	111.9	107.1	108.3
65°	205.6	182.5	146.0	116.8	105.9	94.9	80.3	70.6	65.7	60.8	62.1
67.5°	127.8	114.4	92.5	75.4	68.1	59.6	48.7	41.4	37.7	34.1	31.6
70°	86.4	74.2	63.3	53.5	48.7	42.6	35.3	29.2	26.8	24.3	21.9
72.5°	60.8	54.8	46.2	40.2	36.5	31.6	26.8	23.1	20.7	18.3	15.8
75°	43.8	38.9	34.1	29.2	26.8	24.3	20.7	18.3	15.8	13.4	11.0
77.5°	31.6	28.0	24.3	21.9	20.7	17.0	14.6	13.4	12.2	9.7	7.3
80°	21.9	19.5	15.8	14.6	14.6	12.2	11.0	9.7	8.5	6.1	4.9
82.5°	14.6	13.4	12.2	11.0	9.7	8.5	8.5	6.1	4.9	3.7	2.4
85°	11.0	9.7	8.5	7.3	7.3	6.1	4.9	3.7	3.7	2.4	1.2
87.5°	6.1	6.1	4.9	3.7	3.7	2.4	2.4	1.2	1.2	1.2	1.2
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4631.1	4631.1	4631.1	4631.1	4631.1	4631.1	4631.1	4631.1	4631.1	4631.1	4631.1
2.5°	4672.5	4676.1	4696.8	4681.0	4721.1	4750.3	4735.7	4768.6	4757.6	4755.2	4792.9
5°	4704.1	4712.6	4740.6	4726.0	4769.8	4801.5	4786.8	4823.4	4812.4	4810.0	4848.9
7.5°	4764.9	4773.5	4797.8	4785.6	4831.9	4859.9	4841.6	4881.8	4867.2	4865.9	4903.7
10°	4841.6	4853.8	4874.5	4862.3	4904.9	4929.2	4911.0	4949.9	4936.5	4930.4	4971.8
12.5°	4898.8	4907.3	4928.0	4918.3	4959.6	4977.9	4962.1	4999.8	4982.8	4977.9	5014.4
15°	4885.4	4893.9	4911.0	4902.4	4941.4	4958.4	4937.7	4979.1	4962.1	4952.3	4985.2
17.5°	4800.2	4805.1	4817.3	4808.8	4850.1	4861.1	4838.0	4879.3	4863.5	4846.5	4878.1
20°	4674.9	4672.5	4679.8	4676.1	4710.2	4716.3	4701.7	4732.1	4713.8	4704.1	4722.4
22.5°	4519.2	4516.7	4521.6	4511.9	4545.9	4549.6	4527.7	4564.2	4545.9	4527.7	4558.1
25°	4346.4	4333.0	4330.6	4334.2	4357.3	4361.0	4337.9	4364.6	4341.5	4326.9	4356.1
27.5°	4133.4	4116.4	4112.7	4116.4	4139.5	4122.5	4103.0	4122.5	4099.4	4086.0	4104.2
30°	3870.6	3846.3	3835.3	3828.0	3852.4	3846.3	3801.2	3823.2	3786.6	3767.2	3780.6
32.5°	3516.5	3503.1	3473.9	3456.9	3480.0	3433.8	3405.8	3405.8	3391.2	3358.3	3365.6
35°	3024.9	3004.3	2977.5	2962.9	2966.5	2904.5	2858.2	2868.0	2819.3	2810.8	2814.4
37.5°	2403.2	2369.1	2359.4	2328.9	2336.2	2281.5	2218.2	2219.4	2193.9	2167.1	2158.6
40°	1805.7	1799.6	1789.9	1764.3	1774.1	1714.5	1690.1	1691.3	1674.3	1654.8	1664.6
42.5°	1395.7	1376.2	1370.1	1361.6	1364.0	1354.3	1322.6	1326.3	1311.7	1306.8	1302.0
45°	1134.0	1113.4	1098.8	1106.1	1106.1	1095.1	1082.9	1090.2	1082.9	1073.2	1078.1
47.5°	934.5	915.0	907.7	906.5	915.0	907.7	895.6	898.0	896.8	893.1	890.7
50°	745.9	741.0	734.9	731.3	734.9	732.5	721.6	727.6	731.3	719.1	722.8
52.5°	568.2	568.2	567.0	558.5	565.8	558.5	557.3	559.7	556.1	551.2	550.0
55°	416.1	412.5	406.4	405.2	407.6	405.2	402.8	404.0	406.4	394.2	394.2
57.5°	284.7	282.3	278.6	278.6	283.5	277.4	273.8	278.6	273.8	268.9	268.9
60°	182.5	181.3	177.7	177.7	177.7	176.4	172.8	174.0	176.4	169.1	170.4
62.5°	109.5	105.9	104.6	103.4	104.6	103.4	103.4	102.2	101.0	101.0	97.3
65°	59.6	57.2	54.8	56.0	56.0	54.8	54.8	54.8	52.3	51.1	49.9
67.5°	30.4	28.0	28.0	26.8	26.8	26.8	26.8	25.6	25.6	25.6	24.3
70°	19.5	18.3	17.0	17.0	17.0	15.8	15.8	15.8	15.8	15.8	14.6
72.5°	13.4	12.2	11.0	11.0	11.0	9.7	9.7	9.7	9.7	8.5	8.5
75°	9.7	8.5	7.3	7.3	7.3	6.1	6.1	6.1	6.1	6.1	6.1
77.5°	6.1	4.9	4.9	4.9	4.9	3.7	3.7	3.7	3.7	3.7	2.4
80°	3.7	3.7	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2
82.5°	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0
87.5°	1.2	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: P250905

CATALOG NUMBER: LD8B70D010 ER8B70940 8LBSW01

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4631.1	4631.1	4631.1	4631.1	4631.1	4631.1	4631.1	4631.1
2.5°	4779.5	4769.8	4775.9	4820.9	4801.5	4795.4	4744.3	4789.3
5°	4836.7	4829.4	4829.4	4880.5	4857.4	4852.6	4802.7	4841.6
7.5°	4890.3	4883.0	4884.2	4936.5	4918.3	4911.0	4861.1	4900.0
10°	4959.6	4954.8	4956.0	5005.9	4986.4	4979.1	4928.0	4968.2
12.5°	5001.0	4993.7	4993.7	5047.2	5025.3	5014.4	4965.7	5004.7
15°	4969.4	4958.4	4958.4	5012.0	4987.6	4971.8	4929.2	4965.7
17.5°	4861.1	4850.1	4850.1	4896.4	4878.1	4855.0	4811.2	4845.3
20°	4710.2	4696.8	4693.2	4746.7	4721.1	4700.5	4661.5	4694.4
22.5°	4539.8	4533.8	4522.8	4576.3	4553.2	4531.3	4490.0	4515.5
25°	4335.4	4325.7	4314.7	4367.1	4343.9	4322.0	4289.2	4309.9
27.5°	4081.1	4082.3	4076.2	4117.6	4094.5	4082.3	4042.2	4076.2
30°	3773.3	3759.9	3755.0	3803.7	3781.8	3766.0	3716.1	3748.9
32.5°	3371.7	3352.3	3326.7	3381.5	3343.7	3330.4	3287.8	3335.2
35°	2787.7	2781.6	2758.5	2804.7	2784.0	2759.7	2732.9	2773.1
37.5°	2154.9	2159.8	2157.4	2169.5	2157.4	2141.5	2112.3	2097.7
40°	1645.1	1632.9	1623.2	1645.1	1619.5	1619.5	1602.5	1620.8
42.5°	1289.8	1284.9	1297.1	1302.0	1287.4	1284.9	1282.5	1281.3
45°	1064.7	1064.7	1067.1	1072.0	1067.1	1064.7	1057.4	1052.5
47.5°	877.3	882.2	877.3	893.1	884.6	882.2	867.6	873.7
50°	710.6	704.5	710.6	715.5	716.7	709.4	702.1	705.7
52.5°	551.2	541.5	539.0	546.3	541.5	541.5	536.6	535.4
55°	388.2	391.8	385.7	391.8	389.4	385.7	382.1	386.9
57.5°	262.8	264.0	261.6	265.3	259.2	260.4	259.2	258.0
60°	170.4	165.5	165.5	169.1	163.0	163.0	161.8	161.8
62.5°	97.3	96.1	96.1	94.9	93.7	93.7	93.7	91.3
65°	49.9	48.7	47.5	47.5	47.5	47.5	46.2	46.2
67.5°	24.3	23.1	23.1	24.3	23.1	23.1	23.1	23.1
70°	14.6	14.6	13.4	14.6	13.4	13.4	13.4	13.4
72.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
75°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
77.5°	3.7	2.4	2.4	2.4	2.4	2.4	2.4	2.4
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)