

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: P251209

Luminaire Tested: **LSR8B70D010 EC8B70930 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251209
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: LSR8B70D010 EC8B70930 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7108.3 lumens
Efficiency: N/A
Efficacy: 93.7 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

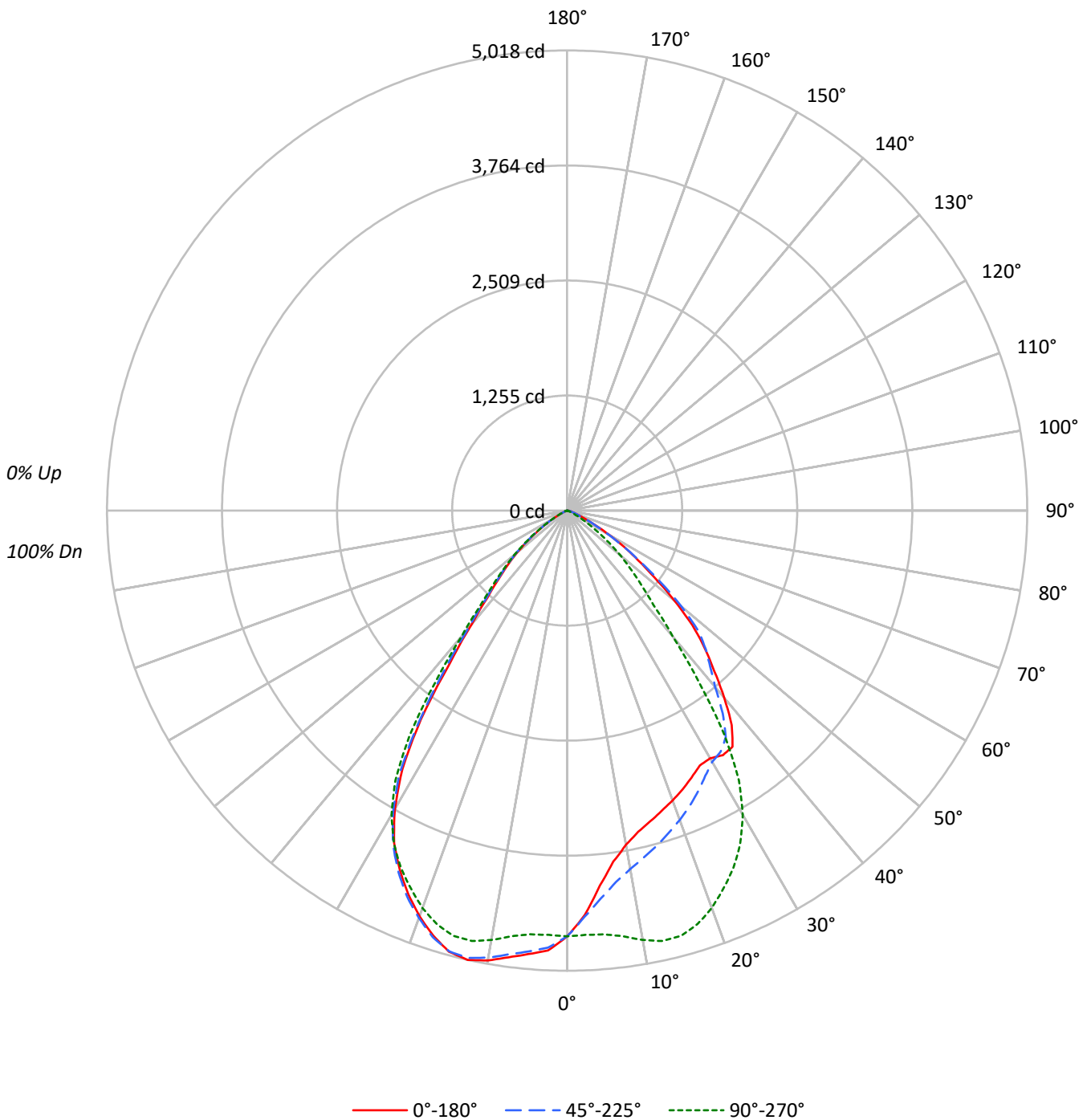
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	143192	143192	143192
5°	127048	143553	150273
10°	115833	148879	155984
15°	111945	153232	158960
20°	110345	151341	154465
25°	109262	146127	147039
30°	111040	136370	133853
35°	118361	112850	104673
40°	107265	72244	65417
45°	92578	49427	46025
50°	73048	36056	33950
55°	50702	22171	20859
60°	32279	11212	10009
65°	16111	4451	3386
70°	8917	2200	1217
75°	6398	1608	584
80°	5203	1083	213
85°	5590	885	0



TEST NUMBER: P251209

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.8	6.1
10°-20°	1250.1	17.6
20°-30°	1814.4	25.5
30°-40°	1787.0	25.1
40°-50°	1120.2	15.8
50°-60°	540.5	7.6
60°-70°	130.8	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°	3497.3	49.2
0°-40°	5284.2	74.3
0°-60°	6945.0	97.7
0°-90°	7108.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7108.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4644	4644	4644	4644	4644	
5°	4104	4244	4638	4826	4855	380
15°	3507	3782	4800	4976	4979	991
25°	3211	3378	4295	4353	4322	1486
35°	3144	3016	2998	2827	2781	1902
45°	2123	2138	1133	1086	1055	1623
55°	943	974	412	408	388	868
65°	221	218	61	52	46	252
75°	54	46	14	6	5	60
85°	16	12	2	0	0	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6
2.5°	4414.3	4386.2	4333.8	4397.2	4397.2	4361.8	4432.7	4389.9	4424.0	4477.7	4430.2
5°	4104.4	4081.2	4037.3	4104.4	4112.9	4080.0	4165.4	4133.7	4183.7	4249.6	4243.5
7.5°	3859.2	3829.9	3789.7	3859.2	3872.6	3850.6	3932.4	3917.7	3983.6	4069.0	4083.7
10°	3699.3	3668.8	3633.5	3696.8	3706.7	3692.0	3775.0	3766.4	3831.1	3929.9	3969.0
12.5°	3585.9	3560.2	3521.2	3588.3	3599.3	3578.6	3656.6	3653.0	3720.0	3823.7	3872.6
15°	3506.6	3476.0	3440.7	3498.0	3512.7	3489.4	3563.9	3556.6	3624.9	3727.4	3782.3
17.5°	3432.2	3404.0	3367.5	3421.2	3435.8	3411.4	3484.6	3472.4	3530.9	3628.6	3684.7
20°	3362.6	3332.1	3299.1	3354.0	3362.6	3334.5	3407.7	3391.8	3444.4	3534.6	3589.6
22.5°	3290.6	3258.9	3224.7	3278.4	3286.9	3258.9	3326.0	3307.6	3356.5	3438.2	3488.2
25°	3211.3	3182.0	3147.9	3197.9	3205.2	3174.7	3245.4	3222.3	3265.0	3337.0	3378.5
27.5°	3132.0	3103.9	3066.0	3117.4	3121.0	3091.7	3156.4	3124.7	3160.1	3225.9	3261.3
30°	3118.5	3086.8	3047.8	3089.3	3090.5	3052.7	3113.7	3075.9	3095.4	3144.2	3164.9
32.5°	3161.2	3129.5	3089.3	3123.4	3119.7	3078.3	3136.9	3090.5	3096.7	3122.2	3117.4
35°	3144.2	3106.4	3058.8	3095.4	3095.4	3045.3	3103.9	3049.0	3043.0	3046.5	3016.1
37.5°	2950.1	2920.9	2875.8	2911.1	2907.5	2869.6	2914.8	2869.6	2848.9	2840.4	2785.5
40°	2664.7	2629.3	2595.1	2633.0	2636.6	2596.3	2655.0	2603.6	2597.6	2573.1	2508.5
42.5°	2375.5	2363.3	2330.3	2362.1	2379.2	2345.0	2393.8	2369.5	2373.0	2367.0	2306.0
45°	2122.9	2102.2	2077.8	2114.4	2125.4	2108.4	2157.1	2142.5	2157.1	2187.6	2137.6
47.5°	1850.9	1830.1	1803.4	1842.4	1861.9	1830.1	1871.6	1866.8	1888.7	1941.1	1936.3
50°	1522.7	1508.1	1503.1	1508.1	1520.2	1505.6	1534.9	1536.1	1550.8	1622.8	1627.6
52.5°	1205.4	1201.8	1184.7	1200.6	1200.6	1177.4	1206.6	1193.3	1207.9	1256.8	1288.4
55°	943.1	939.5	928.5	943.1	927.3	918.8	927.3	913.8	902.9	940.7	973.6
57.5°	734.5	722.3	708.9	715.0	713.7	695.5	705.2	689.3	680.8	694.2	723.5
60°	523.4	519.8	507.6	513.6	518.6	505.1	514.9	507.6	492.9	503.9	505.1
62.5°	347.7	350.2	342.8	344.0	340.4	338.0	344.0	347.7	344.0	339.2	340.4
65°	220.8	219.6	218.4	219.6	222.1	217.1	220.8	223.3	219.6	219.6	218.4
67.5°	146.4	142.7	139.1	141.6	143.9	140.3	143.9	142.7	143.9	142.7	139.1
70°	98.9	97.6	96.4	97.6	97.6	95.2	97.6	96.4	97.6	96.4	92.7
72.5°	72.0	72.0	70.7	72.0	72.0	69.5	70.7	68.4	69.5	68.4	65.9
75°	53.7	53.7	52.5	53.7	52.5	51.2	52.5	51.2	48.8	48.8	46.4
77.5°	39.0	39.0	39.0	39.0	39.0	37.8	37.8	36.7	35.4	34.2	34.2
80°	29.3	28.0	28.0	28.0	28.0	26.8	28.0	26.8	25.7	24.4	23.2
82.5°	20.7	22.0	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	14.7	14.7	14.7	13.5	13.5	12.2
87.5°	8.5	8.5	8.5	9.8	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



TEST NUMBER: P251209

CATALOG NUMBER: LSR8B70D010 EC8B70930 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6
2.5°	4493.6	4499.7	4486.2	4507.0	4587.6	4522.9	4549.7	4558.3	4619.3	4630.3	4622.9
5°	4322.8	4349.6	4366.7	4413.0	4502.2	4455.8	4503.4	4533.9	4611.9	4637.6	4643.6
7.5°	4188.6	4244.7	4286.1	4361.8	4466.7	4431.4	4503.4	4553.4	4648.6	4681.5	4697.3
10°	4088.5	4173.9	4245.9	4349.6	4468.0	4444.8	4538.7	4609.6	4715.7	4754.7	4774.2
12.5°	4012.8	4116.6	4212.9	4344.8	4472.9	4461.9	4575.4	4655.8	4768.2	4807.2	4830.4
15°	3929.9	4049.5	4161.7	4309.3	4447.2	4444.8	4566.8	4652.3	4766.9	4799.9	4821.9
17.5°	3831.1	3959.3	4082.5	4242.3	4379.0	4381.3	4504.6	4588.8	4701.0	4727.8	4742.5
20°	3731.0	3857.9	3981.1	4145.9	4280.1	4283.8	4404.5	4482.7	4590.0	4611.9	4615.6
22.5°	3624.9	3743.2	3866.4	4030.0	4159.4	4161.7	4281.3	4354.5	4446.0	4457.0	4466.7
25°	3504.1	3620.0	3736.0	3898.2	4021.5	4028.8	4137.4	4202.0	4286.1	4294.8	4298.4
27.5°	3378.5	3473.6	3584.6	3723.7	3848.2	3843.3	3945.8	4019.0	4094.7	4089.7	4088.5
30°	3251.6	3330.8	3399.2	3533.4	3624.9	3628.6	3725.0	3760.3	3839.6	3829.9	3828.7
32.5°	3162.5	3183.2	3201.6	3269.8	3356.5	3326.0	3391.8	3435.8	3490.7	3487.0	3488.2
35°	2999.0	2961.1	2906.3	2916.1	2968.5	2920.9	2956.3	2955.1	3011.2	2997.8	3013.6
37.5°	2719.5	2612.3	2490.2	2420.7	2430.4	2370.7	2358.5	2387.7	2407.2	2369.5	2382.8
40°	2421.9	2263.3	2073.0	1914.3	1905.8	1831.4	1817.9	1788.7	1826.4	1794.7	1804.5
42.5°	2202.3	1992.5	1742.3	1549.6	1508.1	1445.9	1409.2	1404.3	1415.3	1393.4	1387.2
45°	2033.9	1810.6	1523.9	1303.1	1256.8	1189.6	1152.9	1139.6	1140.8	1133.4	1127.4
47.5°	1836.2	1611.8	1321.3	1095.7	1043.2	979.8	943.1	934.6	939.5	929.8	922.4
50°	1562.9	1361.7	1096.9	890.6	844.3	797.9	768.7	760.2	758.9	751.6	746.7
52.5°	1268.9	1101.7	872.4	700.3	658.8	613.7	593.0	582.0	583.3	575.9	568.6
55°	982.2	878.4	676.0	529.6	491.7	456.4	436.7	423.4	419.7	412.4	408.7
57.5°	730.9	661.3	506.4	381.9	360.0	325.8	306.3	290.3	288.0	284.3	283.1
60°	512.4	462.4	356.3	272.1	246.5	225.8	206.2	190.3	183.1	181.8	178.1
62.5°	331.8	301.3	234.3	181.8	162.3	147.6	128.1	117.1	112.2	107.4	108.6
65°	206.2	183.1	146.4	117.1	106.2	95.2	80.5	70.7	65.9	61.0	62.2
67.5°	128.1	114.7	92.7	75.7	68.4	59.7	48.8	41.5	37.8	34.2	31.7
70°	86.7	74.4	63.4	53.7	48.8	42.7	35.4	29.3	26.8	24.4	22.0
72.5°	61.0	54.9	46.4	40.2	36.7	31.7	26.8	23.2	20.7	18.3	15.8
75°	43.9	39.0	34.2	29.3	26.8	24.4	20.7	18.3	15.8	13.5	11.0
77.5°	31.7	28.0	24.4	22.0	20.7	17.0	14.7	13.5	12.2	9.8	7.3
80°	22.0	19.5	15.8	14.7	14.7	12.2	11.0	9.8	8.5	6.1	4.9
82.5°	14.7	13.5	12.2	11.0	9.8	8.5	8.5	6.1	4.9	3.7	2.5
85°	11.0	9.8	8.5	7.3	7.3	6.1	4.9	3.7	3.7	2.5	1.2
87.5°	6.1	6.1	4.9	3.7	3.7	2.5	2.5	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



TEST NUMBER: P251209

CATALOG NUMBER: LSR8B70D010 EC8B70930 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6
2.5°	4685.2	4688.8	4709.5	4693.7	4734.0	4763.2	4748.6	4781.5	4770.5	4768.2	4806.0
5°	4716.9	4725.5	4753.5	4738.8	4782.7	4814.5	4799.9	4836.4	4825.5	4823.0	4862.1
7.5°	4777.9	4786.4	4810.9	4798.7	4845.0	4873.1	4854.7	4895.1	4880.4	4879.2	4916.9
10°	4854.7	4866.9	4887.7	4875.5	4918.2	4942.6	4924.3	4963.3	4949.9	4943.8	4985.3
12.5°	4912.1	4920.6	4941.4	4931.6	4973.1	4991.4	4975.6	5013.3	4996.3	4991.4	5028.0
15°	4898.7	4907.2	4924.3	4915.8	4954.8	4971.9	4951.1	4992.6	4975.6	4965.8	4998.8
17.5°	4813.2	4818.2	4830.4	4821.9	4863.3	4874.3	4851.1	4892.6	4876.7	4859.6	4891.4
20°	4687.6	4685.2	4692.5	4688.8	4723.0	4729.1	4714.5	4745.0	4726.7	4716.9	4735.2
22.5°	4531.4	4529.0	4533.9	4524.1	4558.3	4561.9	4539.9	4576.6	4558.3	4539.9	4570.4
25°	4358.2	4344.8	4342.3	4346.0	4369.2	4372.8	4349.6	4376.5	4353.3	4338.6	4368.0
27.5°	4144.7	4127.6	4123.9	4127.6	4150.7	4133.7	4114.2	4133.7	4110.5	4097.0	4115.4
30°	3881.1	3856.7	3845.7	3838.4	3862.9	3856.7	3811.6	3833.5	3796.9	3777.4	3790.9
32.5°	3526.1	3512.7	3483.4	3466.2	3489.4	3443.2	3415.0	3415.0	3400.4	3367.5	3374.8
35°	3033.2	3012.5	2985.6	2971.0	2974.6	2912.4	2865.9	2875.8	2826.9	2818.4	2822.1
37.5°	2409.7	2375.5	2365.8	2335.3	2342.6	2287.6	2224.3	2225.4	2199.9	2172.9	2164.4
40°	1810.6	1804.5	1794.7	1769.2	1778.9	1719.2	1694.7	1696.0	1678.8	1659.3	1669.1
42.5°	1399.5	1380.0	1373.8	1365.3	1367.7	1358.0	1326.3	1330.0	1315.3	1310.3	1305.5
45°	1137.1	1116.4	1101.7	1109.1	1109.1	1098.1	1085.9	1093.2	1085.9	1076.2	1081.0
47.5°	937.0	917.5	910.1	909.0	917.5	910.1	898.0	900.4	899.3	895.6	893.1
50°	747.9	743.0	736.9	733.2	736.9	734.5	723.5	729.7	733.2	721.0	724.7
52.5°	569.8	569.8	568.6	560.1	567.3	560.1	558.8	561.3	557.6	552.7	551.5
55°	417.2	413.6	407.5	406.3	408.7	406.3	403.9	405.0	407.5	395.3	395.3
57.5°	285.5	283.1	279.4	279.4	284.3	278.2	274.5	279.4	274.5	269.6	269.6
60°	183.1	181.8	178.1	178.1	178.1	176.9	173.3	174.4	176.9	169.6	170.8
62.5°	109.9	106.2	104.9	103.7	104.9	103.7	103.7	102.5	101.2	101.2	97.6
65°	59.7	57.4	54.9	56.2	56.2	54.9	54.9	54.9	52.5	51.2	50.0
67.5°	30.5	28.0	28.0	26.8	26.8	26.8	26.8	25.7	25.7	25.7	24.4
70°	19.5	18.3	17.0	17.0	17.0	15.8	15.8	15.8	15.8	15.8	14.7
72.5°	13.5	12.2	11.0	11.0	11.0	9.8	9.8	9.8	9.8	8.5	8.5
75°	9.8	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	2.5
80°	3.7	3.7	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2
82.5°	2.5	2.5	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: P251209

CATALOG NUMBER: LSR8B70D010 EC8B70930 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6
2.5°	4792.5	4782.7	4788.9	4834.0	4814.5	4808.4	4757.2	4802.3
5°	4849.9	4842.6	4842.6	4893.8	4870.6	4865.7	4815.7	4854.7
7.5°	4903.6	4896.2	4897.4	4949.9	4931.6	4924.3	4874.3	4913.3
10°	4973.1	4968.3	4969.4	5019.5	5000.0	4992.6	4941.4	4981.6
12.5°	5014.6	5007.3	5007.3	5061.0	5039.0	5028.0	4979.3	5018.3
15°	4982.8	4971.9	4971.9	5025.6	5001.1	4985.3	4942.6	4979.3
17.5°	4874.3	4863.3	4863.3	4909.6	4891.4	4868.2	4824.2	4858.4
20°	4723.0	4709.5	4706.0	4759.5	4734.0	4713.2	4674.2	4707.1
22.5°	4552.2	4546.1	4535.1	4588.8	4565.6	4543.6	4502.2	4527.7
25°	4347.2	4337.5	4326.5	4379.0	4355.8	4333.8	4300.8	4321.6
27.5°	4092.2	4093.4	4087.3	4128.8	4105.7	4093.4	4053.2	4087.3
30°	3783.5	3770.1	3765.2	3814.0	3792.0	3776.2	3726.2	3759.2
32.5°	3380.9	3361.3	3335.8	3390.7	3352.8	3339.3	3296.7	3344.3
35°	2795.2	2789.2	2766.0	2812.4	2791.6	2767.2	2740.3	2780.6
37.5°	2160.8	2165.7	2163.2	2175.4	2163.2	2147.4	2118.1	2103.4
40°	1649.6	1637.3	1627.6	1649.6	1624.0	1624.0	1606.8	1625.1
42.5°	1293.3	1288.4	1300.6	1305.5	1290.8	1288.4	1286.0	1284.8
45°	1067.5	1067.5	1070.0	1074.9	1070.0	1067.5	1060.2	1055.4
47.5°	879.6	884.6	879.6	895.6	887.0	884.6	869.9	876.1
50°	712.5	706.5	712.5	717.4	718.7	711.3	704.0	707.7
52.5°	552.7	542.9	540.5	547.8	542.9	542.9	538.1	536.8
55°	389.2	392.9	386.7	392.9	390.4	386.7	383.2	388.0
57.5°	263.5	264.8	262.3	266.0	259.8	261.1	259.8	258.6
60°	170.8	165.9	165.9	169.6	163.4	163.4	162.3	162.3
62.5°	97.6	96.4	96.4	95.2	93.9	93.9	93.9	91.5
65°	50.0	48.8	47.5	47.5	47.5	47.5	46.4	46.4
67.5°	24.4	23.2	23.2	24.4	23.2	23.2	23.2	23.2
70°	14.7	14.7	13.5	14.7	13.5	13.5	13.5	13.5
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	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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)