

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: P251199

Luminaire Tested: **LSR8B70D010 EC8B70830 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251199
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 EC8B70830 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7380.0 lumens
Efficiency: N/A
Efficacy: 97.2 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

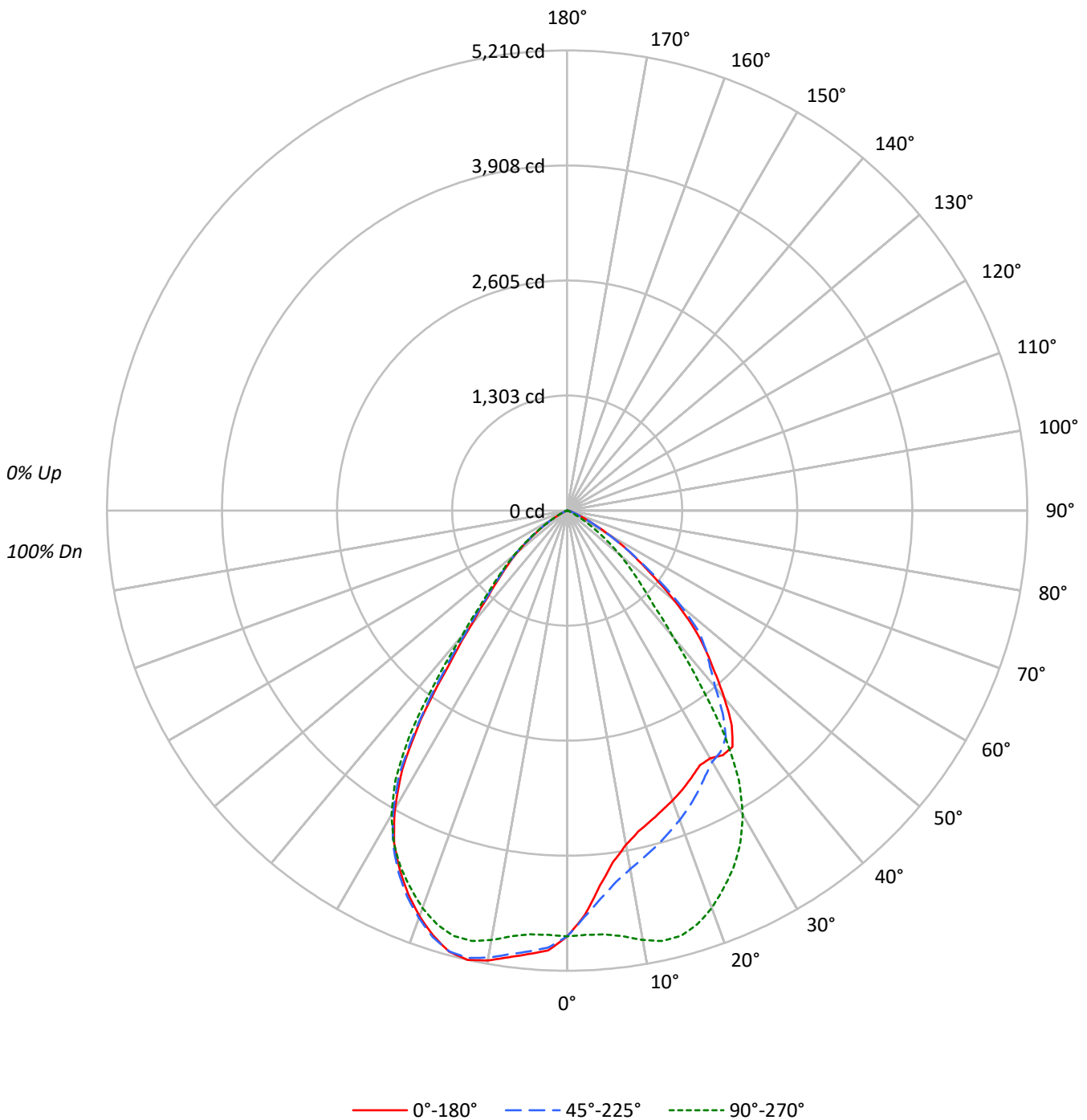
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P251199

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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°	148668	148668	148668
5°	131905	149041	156018
10°	120260	154572	161949
15°	116223	159087	165035
20°	114562	157130	160372
25°	113440	151710	152659
30°	115287	141583	138966
35°	122886	117164	108675
40°	111367	75009	67920
45°	96119	51319	47783
50°	75840	37433	35246
55°	52643	23021	21655
60°	33513	11638	10392
65°	16731	4619	3510
70°	9250	2281	1253
75°	6636	1656	608
80°	5398	1119	231
85°	5838	885	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.3	6.1
10°-20°	1297.9	17.6
20°-30°	1883.7	25.5
30°-40°	1855.3	25.1
40°-50°	1163.0	15.8
50°-60°	561.2	7.6
60°-70°	135.8	1.8
70°-80°	27.4	0.4
80°-90°	6.3	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°	3631.0	49.2
0°-40°	5486.3	74.3
0°-60°	7210.5	97.7
0°-90°	7380.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7380.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4821	4821	4821	4821	4821	
5°	4261	4406	4815	5010	5040	394
15°	3641	3927	4983	5166	5170	1029
25°	3334	3508	4459	4520	4487	1543
35°	3264	3131	3112	2935	2887	1975
45°	2204	2219	1177	1127	1096	1685
55°	979	1011	428	423	403	901
65°	229	227	63	54	48	262
75°	56	48	14	6	5	63
85°	16	13	2	0	0	17
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°	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2
2.5°	4583.1	4553.9	4499.5	4565.3	4565.3	4528.6	4602.1	4557.7	4593.2	4648.9	4599.5
5°	4261.3	4237.2	4191.6	4261.3	4270.2	4236.0	4324.6	4291.7	4343.6	4412.0	4405.7
7.5°	4006.7	3976.3	3934.5	4006.7	4020.6	3997.8	4082.7	4067.5	4135.9	4224.6	4239.8
10°	3840.7	3809.1	3772.3	3838.2	3848.3	3833.1	3919.3	3910.4	3977.6	4080.2	4120.7
12.5°	3722.9	3696.3	3655.8	3725.5	3736.9	3715.3	3796.4	3792.6	3862.3	3970.0	4020.6
15°	3640.6	3608.9	3572.2	3631.7	3646.9	3622.9	3700.1	3692.5	3763.5	3869.9	3926.9
17.5°	3563.3	3534.2	3496.2	3551.9	3567.1	3541.8	3617.8	3605.1	3665.9	3767.3	3825.5
20°	3491.1	3459.5	3425.3	3482.3	3491.1	3462.0	3538.0	3521.5	3576.0	3669.7	3726.7
22.5°	3416.4	3383.5	3348.0	3403.7	3412.6	3383.5	3453.1	3434.1	3484.8	3569.7	3621.6
25°	3334.1	3303.7	3268.2	3320.1	3327.7	3296.1	3369.5	3345.5	3389.8	3464.5	3507.6
27.5°	3251.7	3222.6	3183.3	3236.5	3240.3	3209.9	3277.1	3244.1	3280.9	3349.3	3386.0
30°	3237.8	3204.8	3164.3	3207.4	3208.6	3169.4	3232.7	3193.4	3213.7	3264.4	3285.9
32.5°	3282.1	3249.2	3207.4	3242.8	3239.0	3196.0	3256.8	3208.6	3215.0	3241.6	3236.5
35°	3264.4	3225.1	3175.7	3213.7	3213.7	3161.8	3222.6	3165.6	3159.2	3163.0	3131.4
37.5°	3063.0	3032.6	2985.7	3022.4	3018.6	2979.4	3026.2	2979.4	2957.8	2949.0	2892.0
40°	2766.6	2729.8	2694.4	2733.6	2737.4	2695.6	2756.4	2703.2	2696.9	2671.6	2604.4
42.5°	2466.3	2453.7	2419.5	2452.4	2470.1	2434.7	2485.3	2460.0	2463.8	2457.5	2394.1
45°	2204.1	2182.6	2157.3	2195.3	2206.7	2188.9	2239.6	2224.4	2239.6	2271.3	2219.3
47.5°	1921.6	1900.1	1872.2	1912.8	1933.0	1900.1	1943.2	1938.1	1960.9	2015.4	2010.3
50°	1580.9	1565.7	1560.6	1565.7	1578.4	1563.2	1593.6	1594.8	1610.0	1684.8	1689.8
52.5°	1251.5	1247.7	1230.0	1246.5	1246.5	1222.4	1252.8	1238.9	1254.1	1304.7	1337.7
55°	979.2	975.4	964.0	979.2	962.7	953.9	962.7	948.8	937.4	976.7	1010.9
57.5°	762.6	749.9	736.0	742.3	741.0	722.0	732.2	715.7	706.8	720.8	751.2
60°	543.4	539.6	527.0	533.3	538.4	524.4	534.6	527.0	511.8	523.2	524.4
62.5°	361.0	363.6	356.0	357.2	353.4	350.9	357.2	361.0	357.2	352.2	353.4
65°	229.3	228.0	226.7	228.0	230.5	225.5	229.3	231.8	228.0	228.0	226.7
67.5°	152.0	148.2	144.4	146.9	149.5	145.7	149.5	148.2	149.5	148.2	144.4
70°	102.6	101.3	100.1	101.3	101.3	98.8	101.3	100.1	101.3	100.1	96.3
72.5°	74.7	74.7	73.5	74.7	74.7	72.2	73.5	70.9	72.2	70.9	68.4
75°	55.7	55.7	54.5	55.7	54.5	53.2	54.5	53.2	50.7	50.7	48.1
77.5°	40.5	40.5	40.5	40.5	40.5	39.3	39.3	38.0	36.7	35.5	35.5
80°	30.4	29.1	29.1	29.1	29.1	27.9	29.1	27.9	26.6	25.3	24.1
82.5°	21.5	22.8	21.5	21.5	21.5	20.3	21.5	20.3	20.3	19.0	16.5
85°	16.5	16.5	16.5	16.5	16.5	15.2	15.2	15.2	13.9	13.9	12.7
87.5°	8.9	8.9	8.9	10.1	8.9	8.9	8.9	7.6	7.6	6.3	6.3
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: P251199

CATALOG NUMBER: LSR8B70D010 EC8B70830 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2
2.5°	4665.4	4671.7	4657.8	4679.3	4762.9	4695.8	4723.7	4732.5	4795.9	4807.3	4799.7
5°	4488.1	4515.9	4533.7	4581.8	4674.3	4626.1	4675.5	4707.2	4788.3	4814.9	4821.2
7.5°	4348.7	4407.0	4450.1	4528.6	4637.5	4600.8	4675.5	4727.5	4826.3	4860.5	4876.9
10°	4244.8	4333.5	4408.2	4515.9	4638.8	4614.7	4712.3	4785.7	4895.9	4936.5	4956.7
12.5°	4166.3	4274.0	4374.0	4510.9	4643.9	4632.5	4750.3	4833.9	4950.4	4990.9	5015.0
15°	4080.2	4204.3	4320.8	4474.1	4617.3	4614.7	4741.4	4830.1	4949.1	4983.3	5006.1
17.5°	3977.6	4110.6	4238.5	4404.4	4546.3	4548.9	4676.8	4764.2	4880.7	4908.6	4923.8
20°	3873.7	4005.4	4133.4	4304.4	4443.7	4447.5	4572.9	4654.0	4765.5	4788.3	4792.1
22.5°	3763.5	3886.4	4014.3	4184.0	4318.3	4320.8	4445.0	4521.0	4616.0	4627.4	4637.5
25°	3638.1	3758.4	3878.8	4047.2	4175.2	4182.8	4295.5	4362.6	4450.1	4458.9	4462.7
27.5°	3507.6	3606.4	3721.7	3866.1	3995.3	3990.2	4096.6	4172.6	4251.2	4246.1	4244.8
30°	3375.9	3458.2	3529.1	3668.5	3763.5	3767.3	3867.4	3904.1	3986.4	3976.3	3975.0
32.5°	3283.4	3304.9	3323.9	3394.9	3484.8	3453.1	3521.5	3567.1	3624.1	3620.3	3621.6
35°	3113.6	3074.4	3017.4	3027.5	3082.0	3032.6	3069.3	3068.0	3126.3	3112.4	3128.8
37.5°	2823.6	2712.1	2585.4	2513.2	2523.3	2461.3	2448.6	2479.0	2499.3	2460.0	2473.9
40°	2514.5	2349.8	2152.2	1987.5	1978.6	1901.4	1887.4	1857.0	1896.3	1863.4	1873.5
42.5°	2286.5	2068.6	1808.9	1608.8	1565.7	1501.1	1463.1	1458.0	1469.4	1446.6	1440.3
45°	2111.7	1879.8	1582.2	1352.9	1304.7	1235.1	1197.1	1183.1	1184.4	1176.8	1170.5
47.5°	1906.4	1673.4	1371.9	1137.5	1083.1	1017.2	979.2	970.3	975.4	965.3	957.7
50°	1622.7	1413.7	1138.8	924.7	876.6	828.4	798.0	789.2	787.9	780.3	775.2
52.5°	1317.4	1143.9	905.7	727.1	684.0	637.2	615.6	604.2	605.5	597.9	590.3
55°	1019.7	912.1	701.8	549.8	510.5	473.8	453.5	439.6	435.8	428.2	424.4
57.5°	758.8	686.6	525.7	396.5	373.7	338.2	318.0	301.5	299.0	295.1	293.9
60°	532.0	480.1	369.9	282.5	255.9	234.3	214.1	197.6	190.0	188.7	184.9
62.5°	344.6	312.9	243.2	188.7	168.5	153.3	133.0	121.6	116.5	111.5	112.7
65°	214.1	190.0	152.0	121.6	110.2	98.8	83.6	73.5	68.4	63.3	64.6
67.5°	133.0	119.1	96.3	78.5	70.9	62.1	50.7	43.1	39.3	35.5	32.9
70°	89.9	77.3	65.9	55.7	50.7	44.3	36.7	30.4	27.9	25.3	22.8
72.5°	63.3	57.0	48.1	41.8	38.0	32.9	27.9	24.1	21.5	19.0	16.5
75°	45.6	40.5	35.5	30.4	27.9	25.3	21.5	19.0	16.5	13.9	11.4
77.5°	32.9	29.1	25.3	22.8	21.5	17.7	15.2	13.9	12.7	10.1	7.6
80°	22.8	20.3	16.5	15.2	15.2	12.7	11.4	10.1	8.9	6.3	5.1
82.5°	15.2	13.9	12.7	11.4	10.1	8.9	8.9	6.3	5.1	3.8	2.5
85°	11.4	10.1	8.9	7.6	7.6	6.3	5.1	3.8	3.8	2.5	1.3
87.5°	6.3	6.3	5.1	3.8	3.8	2.5	2.5	1.3	1.3	1.3	1.3
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: P251199

CATALOG NUMBER: LSR8B70D010 EC8B70830 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2
2.5°	4864.3	4868.1	4889.6	4873.1	4914.9	4945.3	4930.1	4964.3	4952.9	4950.4	4989.7
5°	4897.2	4906.1	4935.2	4920.0	4965.6	4998.5	4983.3	5021.3	5009.9	5007.4	5048.0
7.5°	4960.5	4969.4	4994.7	4982.1	5030.2	5059.4	5040.3	5082.2	5067.0	5065.7	5105.0
10°	5040.3	5053.0	5074.6	5061.9	5106.2	5131.6	5112.6	5153.1	5139.2	5132.8	5175.9
12.5°	5099.9	5108.8	5130.3	5120.2	5163.2	5182.2	5165.8	5205.0	5187.3	5182.2	5220.2
15°	5086.0	5094.8	5112.6	5103.7	5144.2	5162.0	5140.4	5183.5	5165.8	5155.6	5189.8
17.5°	4997.3	5002.3	5015.0	5006.1	5049.2	5060.6	5036.5	5079.6	5063.2	5045.4	5078.4
20°	4866.8	4864.3	4871.9	4868.1	4903.5	4909.9	4894.7	4926.3	4907.3	4897.2	4916.2
22.5°	4704.7	4702.1	4707.2	4697.1	4732.5	4736.3	4713.5	4751.5	4732.5	4713.5	4745.2
25°	4524.8	4510.9	4508.3	4512.1	4536.2	4540.0	4515.9	4543.8	4519.7	4504.5	4534.9
27.5°	4303.1	4285.4	4281.6	4285.4	4309.4	4291.7	4271.4	4291.7	4267.6	4253.7	4272.7
30°	4029.5	4004.2	3992.8	3985.2	4010.5	4004.2	3957.3	3980.1	3942.1	3921.8	3935.8
32.5°	3660.9	3646.9	3616.5	3598.8	3622.9	3574.7	3545.6	3545.6	3530.4	3496.2	3503.8
35°	3149.1	3127.6	3099.7	3084.5	3088.3	3023.7	2975.6	2985.7	2935.0	2926.2	2930.0
37.5°	2501.8	2466.3	2456.2	2424.5	2432.1	2375.1	2309.3	2310.5	2283.9	2256.1	2247.2
40°	1879.8	1873.5	1863.4	1836.8	1846.9	1784.8	1759.5	1760.8	1743.0	1722.8	1732.9
42.5°	1452.9	1432.7	1426.3	1417.5	1420.0	1409.9	1376.9	1380.7	1365.5	1360.5	1355.4
45°	1180.6	1159.1	1143.9	1151.5	1151.5	1140.1	1127.4	1135.0	1127.4	1117.3	1122.3
47.5°	972.9	952.6	945.0	943.7	952.6	945.0	932.3	934.9	933.6	929.8	927.3
50°	776.5	771.4	765.1	761.3	765.1	762.6	751.2	757.5	761.3	748.6	752.4
52.5°	591.6	591.6	590.3	581.4	589.0	581.4	580.2	582.7	578.9	573.8	572.6
55°	433.2	429.4	423.1	421.8	424.4	421.8	419.3	420.6	423.1	410.4	410.4
57.5°	296.4	293.9	290.1	290.1	295.1	288.8	285.0	290.1	285.0	279.9	279.9
60°	190.0	188.7	184.9	184.9	184.9	183.7	179.9	181.1	183.7	176.1	177.3
62.5°	114.0	110.2	108.9	107.7	108.9	107.7	107.7	106.4	105.1	105.1	101.3
65°	62.1	59.5	57.0	58.3	58.3	57.0	57.0	57.0	54.5	53.2	51.9
67.5°	31.7	29.1	29.1	27.9	27.9	27.9	27.9	26.6	26.6	26.6	25.3
70°	20.3	19.0	17.7	17.7	17.7	16.5	16.5	16.5	16.5	16.5	15.2
72.5°	13.9	12.7	11.4	11.4	11.4	10.1	10.1	10.1	10.1	8.9	8.9
75°	10.1	8.9	7.6	7.6	7.6	6.3	6.3	6.3	6.3	6.3	6.3
77.5°	6.3	5.1	5.1	5.1	5.1	3.8	3.8	3.8	3.8	3.8	2.5
80°	3.8	3.8	2.5	2.5	2.5	2.5	1.3	1.3	1.3	1.3	1.3
82.5°	2.5	2.5	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0
87.5°	1.3	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: P251199

CATALOG NUMBER: LSR8B70D010 EC8B70830 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2	4821.2
2.5°	4975.7	4965.6	4971.9	5018.8	4998.5	4992.2	4939.0	4985.9
5°	5035.3	5027.7	5027.7	5080.9	5056.8	5051.8	4999.8	5040.3
7.5°	5091.0	5083.4	5084.7	5139.2	5120.2	5112.6	5060.6	5101.2
10°	5163.2	5158.2	5159.4	5211.4	5191.1	5183.5	5130.3	5172.1
12.5°	5206.3	5198.7	5198.7	5254.4	5231.6	5220.2	5169.6	5210.1
15°	5173.4	5162.0	5162.0	5217.7	5192.4	5175.9	5131.6	5169.6
17.5°	5060.6	5049.2	5049.2	5097.4	5078.4	5054.3	5008.7	5044.2
20°	4903.5	4889.6	4885.8	4941.5	4914.9	4893.4	4852.9	4887.1
22.5°	4726.2	4719.9	4708.5	4764.2	4740.1	4717.3	4674.3	4700.9
25°	4513.4	4503.3	4491.9	4546.3	4522.3	4499.5	4465.3	4486.8
27.5°	4248.6	4249.9	4243.6	4286.6	4262.6	4249.9	4208.1	4243.6
30°	3928.2	3914.2	3909.2	3959.8	3937.0	3920.6	3868.6	3902.8
32.5°	3510.1	3489.9	3463.3	3520.3	3481.0	3467.1	3422.7	3472.1
35°	2902.1	2895.8	2871.7	2919.8	2898.3	2873.0	2845.1	2886.9
37.5°	2243.4	2248.5	2245.9	2258.6	2245.9	2229.5	2199.1	2183.9
40°	1712.6	1700.0	1689.8	1712.6	1686.0	1686.0	1668.3	1687.3
42.5°	1342.7	1337.7	1350.3	1355.4	1340.2	1337.7	1335.1	1333.9
45°	1108.4	1108.4	1110.9	1116.0	1110.9	1108.4	1100.8	1095.7
47.5°	913.3	918.4	913.3	929.8	920.9	918.4	903.2	909.5
50°	739.8	733.4	739.8	744.8	746.1	738.5	730.9	734.7
52.5°	573.8	563.7	561.2	568.8	563.7	563.7	558.6	557.4
55°	404.1	407.9	401.6	407.9	405.4	401.6	397.8	402.8
57.5°	273.6	274.9	272.3	276.1	269.8	271.1	269.8	268.5
60°	177.3	172.3	172.3	176.1	169.7	169.7	168.5	168.5
62.5°	101.3	100.1	100.1	98.8	97.5	97.5	97.5	95.0
65°	51.9	50.7	49.4	49.4	49.4	49.4	48.1	48.1
67.5°	25.3	24.1	24.1	25.3	24.1	24.1	24.1	24.1
70°	15.2	15.2	13.9	15.2	13.9	13.9	13.9	13.9
72.5°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
75°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
77.5°	3.8	2.5	2.5	2.5	2.5	2.5	2.5	2.5
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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)