

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: P249257

Luminaire Tested: **LSR8B100D010 EC8B100935 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100935 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9357.0 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

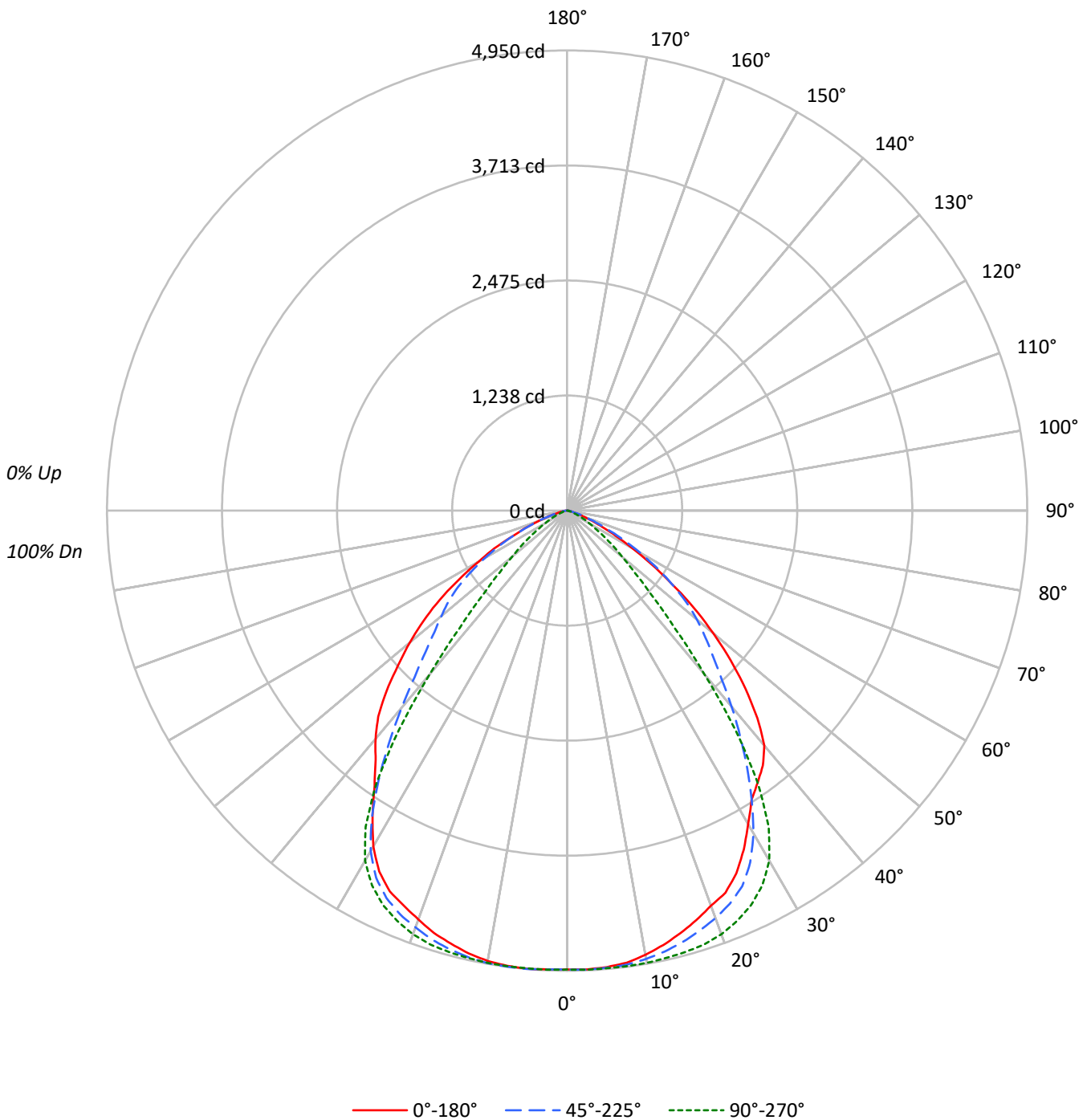
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	152236	152236	152236
5°	152573	152984	153149
10°	151929	154669	154005
15°	150248	156929	153970
20°	148443	159138	153572
25°	146515	159321	153731
30°	138613	154839	148519
35°	134473	134570	135971
40°	132806	92592	129074
45°	118338	55584	119956
50°	98397	36997	106025
55°	73798	25504	89895
60°	50010	16997	67828
65°	30164	11025	46595
70°	16725	5978	28671
75°	7577	2526	14845
80°	6588	2824	10353
85°	7501	3750	10331



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.2	5.0
10°-20°	1368.3	14.6
20°-30°	2076.8	22.2
30°-40°	2181.3	23.3
40°-50°	1635.4	17.5
50°-60°	1049.3	11.2
60°-70°	448.9	4.8
70°-80°	106.1	1.1
80°-90°	19.7	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°	3916.3	41.9
0°-40°	6097.6	65.2
0°-60°	8782.4	93.9
0°-90°	9357.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9357.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4937	4937	4937	4937	4937	
5°	4929	4937	4942	4950	4948	468
15°	4706	4804	4916	4884	4823	1327
25°	4306	4457	4683	4598	4518	1967
35°	3572	3373	3575	3532	3612	2242
45°	2714	2218	1275	2154	2751	2078
55°	1373	1373	474	1431	1672	1245
65°	413	488	151	628	639	441
75°	64	74	21	127	125	93
85°	21	13	11	21	29	22
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°	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9
2.5°	4939.6	4944.9	4942.3	4942.3	4939.6	4942.3	4942.3	4947.6	4947.6	4942.3	4939.6
5°	4929.0	4934.3	4934.3	4929.0	4929.0	4942.3	4934.3	4939.6	4939.6	4936.9	4936.9
7.5°	4905.2	4905.2	4915.7	4907.8	4907.8	4915.7	4913.1	4918.4	4923.7	4926.4	4926.4
10°	4852.1	4857.4	4860.1	4860.1	4862.8	4870.7	4876.0	4886.6	4891.9	4897.2	4899.8
12.5°	4785.9	4793.8	4796.5	4793.8	4801.8	4812.4	4825.7	4838.9	4846.9	4857.4	4865.4
15°	4706.4	4706.4	4711.7	4719.7	4725.0	4740.9	4754.1	4770.0	4791.2	4804.5	4817.7
17.5°	4619.0	4624.3	4632.2	4632.2	4642.8	4669.3	4677.2	4701.1	4725.0	4738.2	4764.7
20°	4523.6	4528.8	4536.8	4542.1	4555.3	4576.5	4592.4	4613.6	4640.2	4664.0	4690.5
22.5°	4449.3	4438.8	4444.0	4449.3	4462.6	4481.2	4499.7	4526.2	4552.7	4576.5	4603.1
25°	4306.2	4308.9	4316.9	4322.1	4338.1	4354.0	4375.2	4406.9	4430.8	4457.3	4486.4
27.5°	4112.8	4115.5	4128.7	4128.7	4141.9	4168.4	4181.7	4208.2	4240.0	4266.5	4301.0
30°	3892.9	3898.1	3898.1	3908.8	3916.7	3930.0	3943.2	3969.7	3985.6	4009.4	4057.2
32.5°	3691.5	3696.7	3694.1	3691.5	3683.5	3680.8	3678.2	3683.5	3688.8	3696.7	3715.3
35°	3572.2	3558.9	3548.4	3529.8	3508.6	3482.1	3458.2	3426.5	3397.3	3373.4	3347.0
37.5°	3458.2	3455.6	3439.7	3413.2	3370.8	3323.1	3267.5	3198.5	3129.6	3055.4	2983.9
40°	3299.2	3291.3	3278.0	3241.0	3193.2	3134.9	3060.8	2975.9	2864.6	2750.7	2634.1
42.5°	3028.9	3031.6	3015.7	2986.5	2941.5	2885.8	2809.0	2716.3	2597.0	2461.8	2310.8
45°	2713.6	2713.6	2708.3	2684.4	2652.6	2607.6	2549.3	2472.5	2355.9	2218.0	2056.4
47.5°	2385.0	2387.6	2379.7	2374.4	2361.1	2332.0	2289.6	2231.3	2149.2	2016.6	1855.0
50°	2051.1	2051.1	2064.3	2061.7	2061.7	2051.1	2032.6	1998.1	1926.6	1820.5	1669.5
52.5°	1717.2	1722.5	1730.5	1741.0	1754.3	1775.5	1754.3	1738.4	1693.3	1611.2	1481.4
55°	1372.7	1378.0	1391.2	1409.8	1425.7	1446.9	1452.2	1452.2	1428.3	1372.7	1274.6
57.5°	1078.6	1070.6	1081.2	1097.1	1118.3	1139.5	1155.4	1173.9	1171.3	1134.2	1054.7
60°	810.9	813.6	821.5	837.4	853.3	871.9	893.1	908.9	916.9	898.4	848.0
62.5°	591.0	591.0	601.5	617.4	625.4	651.9	665.1	673.1	681.0	678.4	646.6
65°	413.4	418.7	424.0	432.0	439.9	455.8	463.7	479.6	484.9	487.6	463.7
67.5°	291.5	283.6	288.9	294.1	302.1	312.7	328.6	328.6	336.5	336.5	320.6
70°	185.5	185.5	188.2	196.1	201.4	204.1	209.4	214.6	222.6	219.9	219.9
72.5°	124.6	121.9	124.6	127.2	129.9	137.8	137.8	140.4	145.8	148.4	137.8
75°	63.6	66.3	71.5	68.9	76.8	71.5	74.2	82.2	79.5	74.2	74.2
77.5°	53.0	53.0	53.0	50.4	55.6	55.6	53.0	58.3	55.6	55.6	53.0
80°	37.1	39.7	37.1	34.4	37.1	34.4	34.4	34.4	34.4	34.4	31.8
82.5°	29.2	23.9	26.5	23.9	26.5	26.5	23.9	21.2	21.2	23.9	21.2
85°	21.2	15.9	18.5	18.5	15.9	15.9	15.9	15.9	15.9	13.2	13.2
87.5°	13.2	8.0	8.0	8.0	10.6	10.6	10.6	8.0	10.6	10.6	5.3
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°	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9
2.5°	4944.9	4942.3	4947.6	4944.9	4944.9	4942.3	4944.9	4942.3	4947.6	4936.9	4939.6
5°	4944.9	4939.6	4942.3	4944.9	4947.6	4942.3	4942.3	4942.3	4947.6	4942.3	4944.9
7.5°	4934.3	4931.6	4939.6	4944.9	4942.3	4939.6	4944.9	4942.3	4947.6	4944.9	4950.2
10°	4913.1	4915.7	4921.1	4929.0	4931.6	4934.3	4939.6	4939.6	4947.6	4936.9	4942.3
12.5°	4881.3	4891.9	4905.2	4910.4	4921.1	4921.1	4926.4	4929.0	4934.3	4931.6	4939.6
15°	4841.6	4854.8	4870.7	4884.0	4897.2	4905.2	4913.1	4915.7	4923.7	4915.7	4918.4
17.5°	4793.8	4809.7	4833.6	4849.5	4870.7	4878.6	4889.2	4894.5	4902.5	4897.2	4899.8
20°	4727.6	4746.2	4772.6	4796.5	4809.7	4828.3	4841.6	4849.5	4854.8	4849.5	4852.1
22.5°	4634.8	4661.4	4695.8	4714.3	4740.9	4756.7	4759.4	4777.9	4791.2	4777.9	4783.3
25°	4526.2	4552.7	4579.2	4619.0	4642.8	4661.4	4679.9	4682.6	4695.8	4693.1	4690.5
27.5°	4346.0	4380.5	4425.5	4457.3	4489.1	4518.3	4539.5	4544.7	4558.0	4552.7	4555.3
30°	4099.5	4136.7	4179.1	4229.4	4274.5	4303.6	4330.1	4348.6	4361.9	4354.0	4351.3
32.5°	3749.8	3786.9	3831.9	3882.2	3935.3	3977.6	4009.4	4033.3	4049.2	4043.9	4030.7
35°	3349.6	3360.2	3389.4	3429.1	3474.1	3519.2	3548.4	3574.8	3593.4	3598.7	3598.7
37.5°	2938.9	2904.4	2883.2	2883.2	2909.7	2928.2	2954.7	2970.6	2999.8	3010.4	3018.4
40°	2541.3	2461.8	2387.6	2332.0	2294.9	2292.3	2292.3	2300.2	2326.7	2361.1	2393.0
42.5°	2186.2	2059.0	1945.1	1841.7	1767.6	1725.2	1706.6	1709.3	1730.5	1762.3	1815.2
45°	1902.7	1743.7	1600.6	1476.0	1375.3	1309.1	1277.3	1274.6	1290.5	1327.6	1386.0
47.5°	1682.8	1513.1	1351.5	1208.4	1099.8	1028.2	991.1	980.5	991.1	1025.5	1094.5
50°	1499.9	1325.0	1158.1	1009.6	893.1	818.9	784.4	771.2	784.4	813.6	882.4
52.5°	1330.3	1150.1	993.8	850.7	726.1	662.5	625.4	617.4	625.4	659.8	715.5
55°	1134.2	980.5	826.8	683.7	575.1	511.5	482.3	474.4	482.3	514.1	572.4
57.5°	940.8	808.2	673.1	543.2	450.5	394.8	368.4	357.7	376.3	397.5	466.4
60°	760.5	654.6	540.6	426.7	349.8	299.4	278.2	275.6	280.9	307.4	355.1
62.5°	596.3	508.8	418.7	326.0	262.3	241.1	214.6	212.0	217.3	233.2	270.3
65°	429.3	373.7	304.8	238.5	188.2	159.0	148.4	151.1	156.3	167.0	201.4
67.5°	299.4	259.7	212.0	167.0	129.9	116.6	106.0	103.4	106.0	124.6	143.1
70°	201.4	177.5	143.1	127.2	90.1	71.5	74.2	66.3	76.8	76.8	92.7
72.5°	132.5	116.6	95.4	74.2	63.6	50.4	50.4	47.7	53.0	55.6	68.9
75°	68.9	53.0	53.0	37.1	26.5	13.2	23.9	21.2	18.5	21.2	26.5
77.5°	47.7	39.7	37.1	29.2	26.5	21.2	21.2	21.2	21.2	23.9	26.5
80°	29.2	29.2	21.2	18.5	15.9	13.2	15.9	15.9	15.9	15.9	18.5
82.5°	18.5	15.9	15.9	13.2	13.2	10.6	10.6	10.6	10.6	10.6	15.9
85°	15.9	10.6	10.6	8.0	10.6	18.5	8.0	10.6	10.6	10.6	8.0
87.5°	5.3	8.0	8.0	8.0	5.3	2.7	5.3	8.0	8.0	13.2	10.6
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°	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9
2.5°	4944.9	4947.6	4947.6	4944.9	4944.9	4939.6	4950.2	4942.3	4944.9	4955.5	4947.6
5°	4950.2	4952.8	4952.8	4950.2	4950.2	4950.2	4952.8	4952.8	4950.2	4947.6	4952.8
7.5°	4960.8	4958.1	4958.1	4952.8	4952.8	4947.6	4952.8	4944.9	4950.2	4944.9	4952.8
10°	4947.6	4950.2	4947.6	4944.9	4944.9	4942.3	4942.3	4934.3	4936.9	4929.0	4934.3
12.5°	4939.6	4936.9	4936.9	4931.6	4926.4	4921.1	4918.4	4910.4	4910.4	4891.9	4899.8
15°	4918.4	4921.1	4913.1	4902.5	4897.2	4884.0	4878.6	4868.0	4857.4	4844.2	4846.9
17.5°	4899.8	4891.9	4881.3	4870.7	4849.5	4838.9	4828.3	4812.4	4807.1	4791.2	4785.9
20°	4844.2	4838.9	4825.7	4807.1	4793.8	4770.0	4759.4	4743.5	4730.2	4714.3	4706.4
22.5°	4772.6	4767.3	4751.4	4732.9	4711.7	4701.1	4690.5	4661.4	4648.1	4632.2	4629.5
25°	4682.6	4674.6	4658.7	4637.5	4626.9	4597.8	4587.1	4565.9	4560.7	4544.7	4542.1
27.5°	4544.7	4534.1	4515.6	4489.1	4470.5	4452.0	4441.4	4425.5	4420.2	4404.3	4401.7
30°	4338.1	4324.8	4287.7	4277.1	4245.3	4226.7	4226.7	4205.5	4208.2	4197.6	4197.6
32.5°	4012.1	3990.9	3961.7	3940.5	3919.3	3908.8	3908.8	3900.8	3906.1	3906.1	3911.4
35°	3580.1	3551.0	3535.1	3521.8	3521.8	3532.4	3564.3	3572.2	3588.1	3601.3	3612.0
37.5°	3026.3	3023.7	3042.2	3058.1	3097.8	3142.9	3198.5	3246.3	3291.3	3323.1	3354.9
40°	2427.4	2493.7	2546.6	2620.9	2681.8	2769.2	2869.9	2952.1	3028.9	3084.6	3142.9
42.5°	1894.7	1979.5	2090.9	2199.5	2308.1	2427.4	2559.9	2673.9	2774.6	2851.4	2912.3
45°	1476.0	1592.6	1727.8	1865.6	2006.1	2154.5	2292.3	2408.8	2514.9	2594.4	2655.3
47.5°	1189.8	1317.1	1470.7	1621.8	1780.8	1937.1	2090.9	2191.6	2279.0	2342.6	2398.3
50°	983.1	1118.3	1280.0	1452.2	1611.2	1767.6	1900.0	1998.1	2069.7	2125.3	2159.7
52.5°	821.5	964.6	1136.9	1309.1	1468.1	1611.2	1730.5	1804.7	1862.9	1902.7	1934.5
55°	678.4	816.2	977.9	1139.5	1295.8	1431.0	1529.0	1584.7	1629.7	1653.6	1672.1
57.5°	553.9	681.0	829.4	977.9	1113.0	1224.3	1301.2	1356.8	1378.0	1396.5	1393.9
60°	434.6	553.9	689.0	816.2	932.8	1022.9	1078.6	1110.3	1126.2	1134.2	1128.9
62.5°	341.8	450.5	553.9	665.1	750.0	826.8	879.8	879.8	887.7	890.4	898.4
65°	254.4	336.5	426.7	508.8	577.7	628.1	657.2	665.1	675.8	673.1	667.8
67.5°	188.2	249.1	315.3	376.3	424.0	455.8	477.0	495.6	492.9	487.6	484.9
70°	129.9	169.6	227.9	265.0	299.4	331.3	336.5	339.2	341.8	344.5	339.2
72.5°	90.1	119.2	151.1	182.9	204.1	217.3	230.6	233.2	233.2	233.2	230.6
75°	45.1	61.0	90.1	103.4	121.9	127.2	137.8	137.8	145.8	135.1	132.5
77.5°	39.7	47.7	63.6	74.2	82.2	90.1	92.7	100.7	98.0	92.7	95.4
80°	23.9	29.2	39.7	45.1	55.6	58.3	61.0	63.6	61.0	63.6	63.6
82.5°	18.5	21.2	26.5	26.5	34.4	34.4	37.1	37.1	39.7	39.7	39.7
85°	10.6	18.5	15.9	31.8	21.2	21.2	26.5	31.8	26.5	26.5	31.8
87.5°	10.6	10.6	8.0	10.6	10.6	10.6	13.2	15.9	15.9	18.5	15.9
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: P249257

CATALOG NUMBER: LSR8B100D010 EC8B100935 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4936.9	4936.9	4936.9	4936.9
2.5°	4944.9	4950.2	4942.3	4939.6
5°	4952.8	4952.8	4947.6	4947.6
7.5°	4952.8	4952.8	4944.9	4939.6
10°	4931.6	4931.6	4923.7	4918.4
12.5°	4891.9	4891.9	4889.2	4881.3
15°	4841.6	4841.6	4830.9	4823.0
17.5°	4772.6	4777.9	4764.7	4764.7
20°	4698.5	4695.8	4685.2	4679.9
22.5°	4621.6	4616.3	4613.6	4597.8
25°	4539.5	4534.1	4526.2	4518.3
27.5°	4399.0	4396.4	4388.4	4377.8
30°	4184.3	4181.7	4171.1	4171.1
32.5°	3906.1	3903.4	3892.9	3895.5
35°	3617.2	3627.9	3622.5	3612.0
37.5°	3376.1	3384.1	3389.4	3384.1
40°	3174.7	3198.5	3201.2	3206.5
42.5°	2960.1	2991.8	3002.5	3007.7
45°	2703.0	2732.1	2756.0	2750.7
47.5°	2440.6	2461.8	2483.0	2467.1
50°	2188.9	2202.1	2210.1	2210.1
52.5°	1950.4	1950.4	1947.8	1950.4
55°	1677.4	1677.4	1666.9	1672.1
57.5°	1391.2	1396.5	1388.6	1375.3
60°	1126.2	1113.0	1107.7	1099.8
62.5°	877.2	877.2	858.6	882.4
65°	657.2	649.3	641.3	638.6
67.5°	477.0	474.4	466.4	463.7
70°	336.5	326.0	323.3	318.0
72.5°	225.3	225.3	219.9	219.9
75°	137.8	124.6	121.9	124.6
77.5°	95.4	92.7	92.7	90.1
80°	63.6	61.0	66.3	58.3
82.5°	39.7	42.4	39.7	42.4
85°	26.5	31.8	29.2	29.2
87.5°	15.9	15.9	15.9	15.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)