

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: P251203

Luminaire Tested: **LSR8B70D010 EC8B70840 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251203
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 EC8B70840 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7624.0 lumens
Efficiency: N/A
Efficacy: 100.4 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

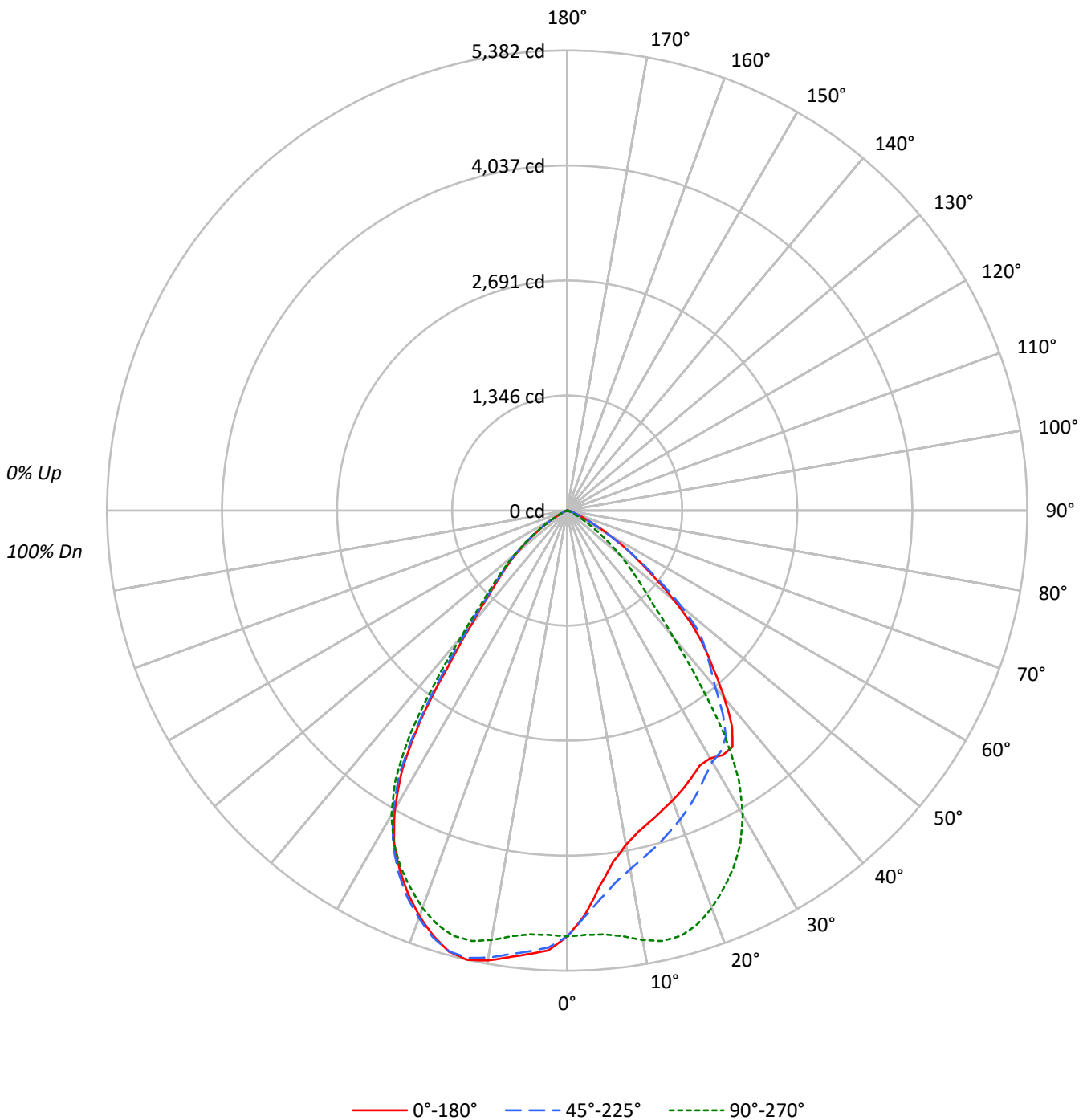
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	153583	153583	153583
5°	136266	153969	161178
10°	124237	159682	167303
15°	120067	164348	170491
20°	118352	162324	165675
25°	117189	156725	157705
30°	119097	146265	143563
35°	126947	121037	112266
40°	115046	77489	70167
45°	99298	53016	49366
50°	78349	38671	36411
55°	54385	23779	22370
60°	34623	12026	10731
65°	17285	4772	3626
70°	9557	2362	1298
75°	6863	1716	620
80°	5576	1154	231
85°	6015	920	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.2	6.1
10°-20°	1340.8	17.6
20°-30°	1946.0	25.5
30°-40°	1916.6	25.1
40°-50°	1201.4	15.8
50°-60°	579.8	7.6
60°-70°	140.3	1.8
70°-80°	28.3	0.4
80°-90°	6.5	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°	3751.0	49.2
0°-40°	5667.6	74.3
0°-60°	7448.8	97.7
0°-90°	7624.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7624.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4981	4981	4981	4981	4981	
5°	4402	4551	4974	5176	5207	407
15°	3761	4057	5148	5336	5340	1063
25°	3444	3624	4606	4669	4635	1594
35°	3372	3235	3215	3032	2982	2040
45°	2277	2293	1216	1165	1132	1741
55°	1012	1044	442	437	416	931
65°	237	234	65	56	50	270
75°	58	50	14	6	5	65
85°	17	13	3	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°	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6
2.5°	4734.6	4704.5	4648.2	4716.3	4716.3	4678.3	4754.2	4708.4	4745.1	4802.6	4751.6
5°	4402.2	4377.3	4330.2	4402.2	4411.4	4376.0	4467.6	4433.6	4487.3	4557.9	4551.4
7.5°	4139.2	4107.8	4064.6	4139.2	4153.6	4130.0	4217.7	4202.0	4272.6	4364.2	4379.9
10°	3967.7	3935.0	3897.1	3965.1	3975.6	3959.9	4048.9	4039.7	4109.1	4215.1	4256.9
12.5°	3846.0	3818.6	3776.7	3848.6	3860.4	3838.2	3921.9	3918.0	3990.0	4101.2	4153.6
15°	3761.0	3728.3	3690.3	3751.8	3767.5	3742.7	3822.5	3814.6	3887.9	3997.8	4056.7
17.5°	3681.1	3651.0	3611.8	3669.4	3685.1	3658.9	3737.4	3724.3	3787.1	3891.8	3952.0
20°	3606.6	3573.8	3538.5	3597.4	3606.6	3576.5	3655.0	3638.0	3694.2	3791.1	3850.0
22.5°	3529.3	3495.3	3458.7	3516.3	3525.4	3495.3	3567.3	3547.7	3600.0	3687.7	3741.3
25°	3444.3	3412.9	3376.2	3429.9	3437.7	3405.0	3480.9	3456.1	3501.9	3579.1	3623.6
27.5°	3359.2	3329.1	3288.6	3343.5	3347.4	3316.0	3385.4	3351.4	3389.3	3460.0	3497.9
30°	3344.8	3310.8	3268.9	3313.4	3314.7	3274.2	3339.6	3299.0	3320.0	3372.3	3394.6
32.5°	3390.6	3356.6	3313.4	3350.1	3346.1	3301.6	3364.5	3314.7	3321.3	3348.8	3343.5
35°	3372.3	3331.7	3280.7	3320.0	3320.0	3266.3	3329.1	3270.2	3263.7	3267.6	3234.9
37.5°	3164.2	3132.8	3084.4	3122.4	3118.4	3077.9	3126.3	3077.9	3055.6	3046.5	2987.6
40°	2858.0	2820.1	2783.4	2824.0	2827.9	2784.7	2847.6	2792.6	2786.1	2759.9	2690.5
42.5°	2547.9	2534.8	2499.5	2533.5	2551.8	2515.2	2567.5	2541.3	2545.3	2538.7	2473.3
45°	2277.0	2254.8	2228.6	2267.8	2279.6	2261.3	2313.6	2297.9	2313.6	2346.4	2292.7
47.5°	1985.2	1962.9	1934.1	1976.0	1997.0	1962.9	2007.4	2002.2	2025.7	2082.0	2076.8
50°	1633.2	1617.5	1612.2	1617.5	1630.5	1614.8	1646.2	1647.6	1663.3	1740.5	1745.7
52.5°	1292.9	1289.0	1270.7	1287.7	1287.7	1262.8	1294.2	1279.8	1295.5	1347.9	1381.9
55°	1011.6	1007.6	995.9	1011.6	994.6	985.4	994.6	980.2	968.4	1008.9	1044.3
57.5°	787.8	774.7	760.3	766.9	765.5	745.9	756.4	739.4	730.2	744.6	776.0
60°	561.4	557.5	544.4	550.9	556.2	541.8	552.2	544.4	528.7	540.5	541.8
62.5°	373.0	375.6	367.7	369.0	365.1	362.5	369.0	373.0	369.0	363.8	365.1
65°	236.9	235.6	234.2	235.6	238.2	232.9	236.9	239.5	235.6	235.6	234.2
67.5°	157.0	153.1	149.2	151.8	154.4	150.5	154.4	153.1	154.4	153.1	149.2
70°	106.0	104.7	103.4	104.7	104.7	102.1	104.7	103.4	104.7	103.4	99.5
72.5°	77.2	77.2	75.9	77.2	77.2	74.6	75.9	73.3	74.6	73.3	70.7
75°	57.6	57.6	56.3	57.6	56.3	55.0	56.3	55.0	52.3	52.3	49.7
77.5°	41.9	41.9	41.9	41.9	41.9	40.6	40.6	39.3	37.9	36.6	36.6
80°	31.4	30.1	30.1	30.1	30.1	28.8	30.1	28.8	27.5	26.2	24.9
82.5°	22.2	23.6	22.2	22.2	22.2	20.9	22.2	20.9	20.9	19.6	17.0
85°	17.0	17.0	17.0	17.0	17.0	15.7	15.7	15.7	14.4	14.4	13.1
87.5°	9.2	9.2	9.2	10.5	9.2	9.2	9.2	7.9	7.9	6.5	6.5
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°	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6
2.5°	4819.6	4826.2	4811.8	4834.0	4920.4	4851.1	4879.8	4889.0	4954.4	4966.2	4958.4
5°	4636.4	4665.2	4683.5	4733.3	4828.8	4779.1	4830.1	4862.8	4946.6	4974.1	4980.6
7.5°	4492.5	4552.7	4597.2	4678.3	4790.9	4752.9	4830.1	4883.8	4985.8	5021.2	5038.2
10°	4385.2	4476.8	4554.0	4665.2	4792.2	4767.3	4868.1	4944.0	5057.8	5099.7	5120.6
12.5°	4304.0	4415.3	4518.7	4660.0	4797.4	4785.6	4907.3	4993.7	5114.1	5156.0	5180.8
15°	4215.1	4343.3	4463.7	4622.0	4769.9	4767.3	4898.2	4989.8	5112.8	5148.1	5171.7
17.5°	4109.1	4246.5	4378.6	4550.1	4696.6	4699.3	4831.4	4921.7	5042.1	5070.9	5086.6
20°	4001.8	4137.9	4270.0	4446.7	4590.6	4594.6	4724.1	4807.9	4923.0	4946.6	4950.5
22.5°	3887.9	4014.8	4147.0	4322.4	4461.1	4463.7	4591.9	4670.5	4768.6	4780.4	4790.9
25°	3758.4	3882.7	4007.0	4181.0	4313.2	4321.1	4437.5	4506.9	4597.2	4606.3	4610.3
27.5°	3623.6	3725.6	3844.7	3993.9	4127.4	4122.2	4232.1	4310.6	4391.7	4386.5	4385.2
30°	3487.5	3572.5	3645.8	3789.8	3887.9	3891.8	3995.2	4033.2	4118.2	4107.8	4106.4
32.5°	3391.9	3414.2	3433.8	3507.1	3600.0	3567.3	3638.0	3685.1	3744.0	3740.0	3741.3
35°	3216.6	3176.0	3117.1	3127.6	3183.9	3132.8	3170.8	3169.5	3229.7	3215.3	3232.3
37.5°	2916.9	2801.8	2670.9	2596.3	2606.8	2542.6	2529.6	2561.0	2581.9	2541.3	2555.7
40°	2597.6	2427.5	2223.3	2053.2	2044.1	1964.2	1949.8	1918.4	1959.0	1925.0	1935.4
42.5°	2362.1	2137.0	1868.7	1661.9	1617.5	1550.7	1511.5	1506.2	1518.0	1494.4	1487.9
45°	2181.5	1942.0	1634.5	1397.6	1347.9	1275.9	1236.6	1222.3	1223.6	1215.7	1209.2
47.5°	1969.5	1728.7	1417.2	1175.1	1118.9	1050.8	1011.6	1002.4	1007.6	997.2	989.3
50°	1676.3	1460.4	1176.4	955.3	905.6	855.8	824.4	815.3	814.0	806.1	800.9
52.5°	1361.0	1181.7	935.7	751.1	706.7	658.2	636.0	624.2	625.5	617.7	609.8
55°	1053.4	942.2	725.0	567.9	527.4	489.4	468.5	454.1	450.2	442.3	438.4
57.5°	783.9	709.3	543.1	409.6	386.0	349.4	328.5	311.5	308.8	304.9	303.6
60°	549.6	496.0	382.1	291.8	264.3	242.1	221.2	204.1	196.3	195.0	191.1
62.5°	355.9	323.2	251.3	195.0	174.0	158.3	137.4	125.6	120.4	115.2	116.5
65°	221.2	196.3	157.0	125.6	113.8	102.1	86.4	75.9	70.7	65.4	66.7
67.5°	137.4	123.0	99.5	81.1	73.3	64.1	52.3	44.5	40.6	36.6	34.0
70°	92.9	79.8	68.0	57.6	52.3	45.8	37.9	31.4	28.8	26.2	23.6
72.5°	65.4	58.9	49.7	43.2	39.3	34.0	28.8	24.9	22.2	19.6	17.0
75°	47.1	41.9	36.6	31.4	28.8	26.2	22.2	19.6	17.0	14.4	11.8
77.5°	34.0	30.1	26.2	23.6	22.2	18.3	15.7	14.4	13.1	10.5	7.9
80°	23.6	20.9	17.0	15.7	15.7	13.1	11.8	10.5	9.2	6.5	5.2
82.5°	15.7	14.4	13.1	11.8	10.5	9.2	9.2	6.5	5.2	3.9	2.6
85°	11.8	10.5	9.2	7.9	7.9	6.5	5.2	3.9	3.9	2.6	1.3
87.5°	6.5	6.5	5.2	3.9	3.9	2.6	2.6	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6
2.5°	5025.1	5029.0	5051.3	5034.3	5077.4	5108.8	5093.1	5128.5	5116.7	5114.1	5154.7
5°	5059.1	5068.3	5098.4	5082.7	5129.8	5163.8	5148.1	5187.4	5175.6	5173.0	5214.8
7.5°	5124.6	5133.7	5159.9	5146.8	5196.5	5226.6	5207.0	5250.2	5234.5	5233.2	5273.7
10°	5207.0	5220.1	5242.3	5229.2	5275.0	5301.2	5281.6	5323.5	5309.1	5302.5	5347.0
12.5°	5268.5	5277.7	5299.9	5289.4	5333.9	5353.6	5336.5	5377.1	5358.8	5353.6	5392.8
15°	5254.1	5263.3	5281.6	5272.4	5314.3	5332.6	5310.4	5354.9	5336.5	5326.1	5361.4
17.5°	5162.5	5167.7	5180.8	5171.7	5216.2	5227.9	5203.1	5247.6	5230.6	5212.2	5246.3
20°	5027.7	5025.1	5032.9	5029.0	5065.7	5072.2	5056.5	5089.2	5069.6	5059.1	5078.8
22.5°	4860.2	4857.6	4862.8	4852.4	4889.0	4892.9	4869.4	4908.6	4889.0	4869.4	4902.1
25°	4674.4	4660.0	4657.4	4661.3	4686.2	4690.1	4665.2	4694.0	4669.2	4653.4	4684.9
27.5°	4445.4	4427.1	4423.1	4427.1	4451.9	4433.6	4412.7	4433.6	4408.7	4394.3	4414.0
30°	4162.7	4136.5	4124.8	4116.9	4143.1	4136.5	4088.1	4111.7	4072.4	4051.5	4065.9
32.5°	3781.9	3767.5	3736.1	3717.8	3742.7	3692.9	3662.8	3662.8	3647.1	3611.8	3619.6
35°	3253.2	3231.0	3202.2	3186.5	3190.4	3123.7	3073.9	3084.4	3032.1	3022.9	3026.8
37.5°	2584.5	2547.9	2537.4	2504.7	2512.5	2453.7	2385.6	2386.9	2359.4	2330.7	2321.5
40°	1942.0	1935.4	1925.0	1897.5	1908.0	1843.8	1817.7	1819.0	1800.7	1779.7	1790.2
42.5°	1501.0	1480.0	1473.5	1464.3	1467.0	1456.5	1422.5	1426.4	1410.7	1405.5	1400.2
45°	1219.6	1197.4	1181.7	1189.5	1189.5	1177.8	1164.7	1172.5	1164.7	1154.2	1159.4
47.5°	1005.0	984.1	976.2	974.9	984.1	976.2	963.1	965.8	964.5	960.5	957.9
50°	802.2	796.9	790.4	786.5	790.4	787.8	776.0	782.6	786.5	773.4	777.3
52.5°	611.1	611.1	609.8	600.7	608.5	600.7	599.3	602.0	598.0	592.8	591.5
55°	447.5	443.6	437.1	435.8	438.4	435.8	433.2	434.5	437.1	424.0	424.0
57.5°	306.2	303.6	299.7	299.7	304.9	298.4	294.4	299.7	294.4	289.2	289.2
60°	196.3	195.0	191.1	191.1	191.1	189.7	185.8	187.1	189.7	181.9	183.2
62.5°	117.8	113.8	112.5	111.2	112.5	111.2	111.2	109.9	108.6	108.6	104.7
65°	64.1	61.5	58.9	60.2	60.2	58.9	58.9	58.9	56.3	55.0	53.7
67.5°	32.7	30.1	30.1	28.8	28.8	28.8	28.8	27.5	27.5	27.5	26.2
70°	20.9	19.6	18.3	18.3	18.3	17.0	17.0	17.0	17.0	17.0	15.7
72.5°	14.4	13.1	11.8	11.8	11.8	10.5	10.5	10.5	10.5	9.2	9.2
75°	10.5	9.2	7.9	7.9	7.9	6.5	6.5	6.5	6.5	6.5	6.5
77.5°	6.5	5.2	5.2	5.2	5.2	3.9	3.9	3.9	3.9	3.9	2.6
80°	3.9	3.9	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3
82.5°	2.6	2.6	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: P251203

CATALOG NUMBER: LSR8B70D010 EC8B70840 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6
2.5°	5140.3	5129.8	5136.3	5184.7	5163.8	5157.3	5102.3	5150.7
5°	5201.8	5193.9	5193.9	5248.9	5224.0	5218.8	5165.1	5207.0
7.5°	5259.3	5251.5	5252.8	5309.1	5289.4	5281.6	5227.9	5269.8
10°	5333.9	5328.7	5330.0	5383.7	5362.7	5354.9	5299.9	5343.1
12.5°	5378.4	5370.6	5370.6	5428.2	5404.6	5392.8	5340.5	5382.4
15°	5344.4	5332.6	5332.6	5390.2	5364.0	5347.0	5301.2	5340.5
17.5°	5227.9	5216.2	5216.2	5265.9	5246.3	5221.4	5174.3	5210.9
20°	5065.7	5051.3	5047.3	5104.9	5077.4	5055.2	5013.3	5048.7
22.5°	4882.5	4875.9	4864.1	4921.7	4896.9	4873.3	4828.8	4856.3
25°	4662.6	4652.1	4640.4	4696.6	4671.8	4648.2	4612.9	4635.1
27.5°	4389.1	4390.4	4383.9	4428.4	4403.5	4390.4	4347.2	4383.9
30°	4058.0	4043.6	4038.4	4090.7	4067.2	4050.2	3996.5	4031.9
32.5°	3626.2	3605.2	3577.8	3636.7	3596.1	3581.7	3535.9	3586.9
35°	2998.0	2991.5	2966.6	3016.4	2994.1	2967.9	2939.2	2982.3
37.5°	2317.6	2322.8	2320.2	2333.3	2320.2	2303.2	2271.8	2256.1
40°	1769.3	1756.2	1745.7	1769.3	1741.8	1741.8	1723.5	1743.1
42.5°	1387.1	1381.9	1395.0	1400.2	1384.5	1381.9	1379.3	1378.0
45°	1145.0	1145.0	1147.7	1152.9	1147.7	1145.0	1137.2	1132.0
47.5°	943.5	948.7	943.5	960.5	951.4	948.7	933.0	939.6
50°	764.2	757.7	764.2	769.5	770.8	762.9	755.1	759.0
52.5°	592.8	582.3	579.7	587.6	582.3	582.3	577.1	575.8
55°	417.4	421.4	414.8	421.4	418.8	414.8	410.9	416.1
57.5°	282.7	284.0	281.4	285.3	278.7	280.0	278.7	277.4
60°	183.2	178.0	178.0	181.9	175.4	175.4	174.0	174.0
62.5°	104.7	103.4	103.4	102.1	100.8	100.8	100.8	98.1
65°	53.7	52.3	51.0	51.0	51.0	51.0	49.7	49.7
67.5°	26.2	24.9	24.9	26.2	24.9	24.9	24.9	24.9
70°	15.7	15.7	14.4	15.7	14.4	14.4	14.4	14.4
72.5°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
75°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
77.5°	3.9	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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)