

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: P250903

Luminaire Tested: **LSR8B70D010 EC8B70935 8LBSW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250903  
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 EC8B70935 8LBSW0LI  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6787.0 lumens  
Efficiency: N/A  
Efficacy: 89.4 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

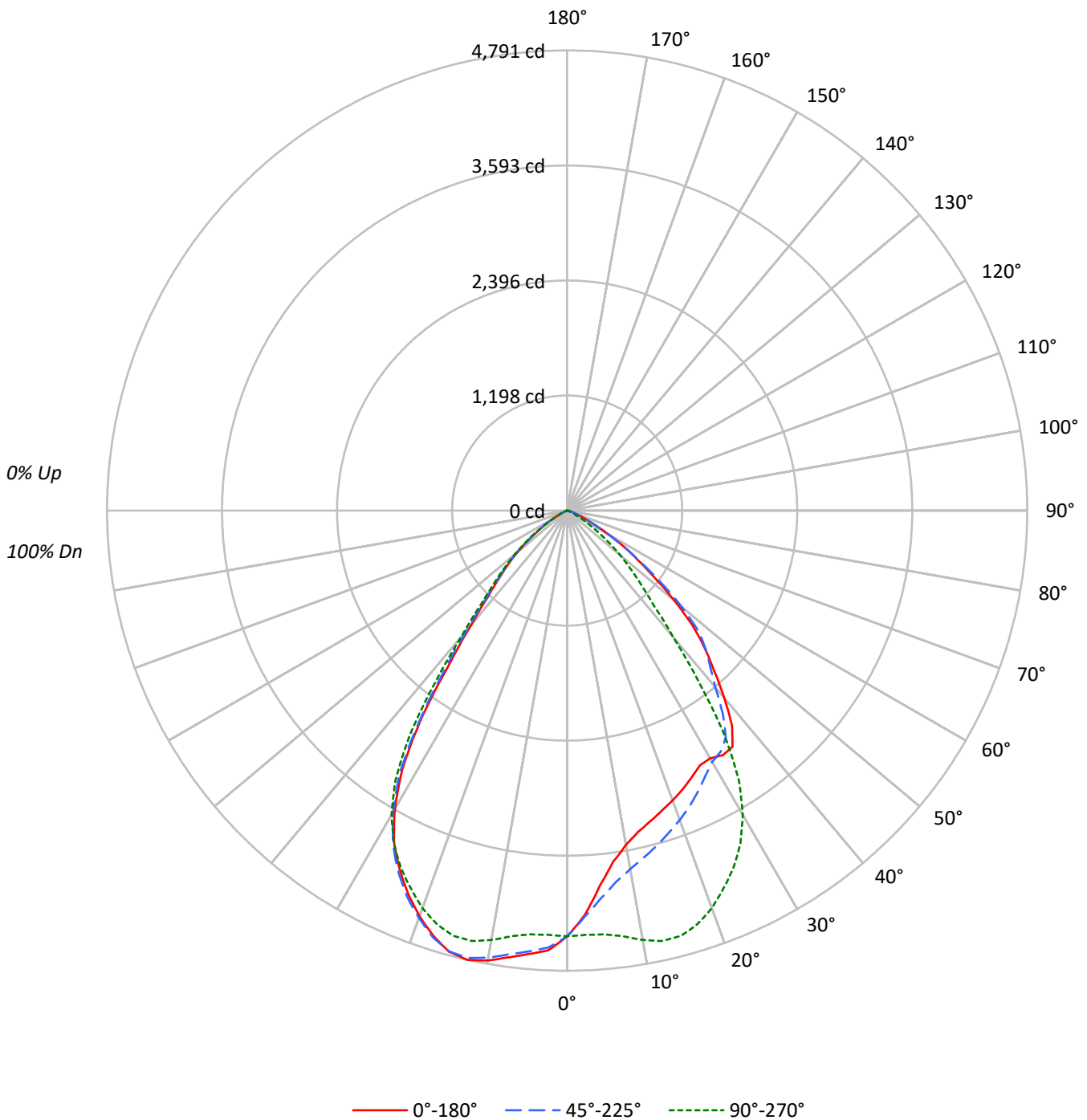
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	136722	136722	136722
5°	121306	137065	143482
10°	110597	142150	148936
15°	106885	146305	151774
20°	105357	144502	147485
25°	104325	139519	140394
30°	106023	130207	127800
35°	113012	107749	99942
40°	102418	68979	62462
45°	88396	47194	43945
50°	69748	34425	32415
55°	48412	21171	19919
60°	30824	10706	9553
65°	15388	4247	3232
70°	8511	2101	1154
75°	6112	1525	560
80°	4972	1030	213
85°	5342	814	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	413.2	6.1
10°-20°	1193.6	17.6
20°-30°	1732.4	25.5
30°-40°	1706.2	25.1
40°-50°	1069.5	15.8
50°-60°	516.1	7.6
60°-70°	124.9	1.8
70°-80°	25.2	0.4
80°-90°	5.8	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°	3339.2	49.2
0°-40°	5045.4	74.3
0°-60°	6631.1	97.7
0°-90°	6787.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6787.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4434	4434	4434	4434	4434	
5°	3919	4052	4428	4607	4635	363
15°	3348	3611	4583	4751	4754	947
25°	3066	3226	4101	4157	4126	1419
35°	3002	2880	2862	2699	2655	1816
45°	2027	2041	1082	1037	1008	1550
55°	900	930	394	389	370	829
65°	211	208	58	50	44	241
75°	51	44	13	6	5	58
85°	15	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°	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8
2.5°	4214.8	4188.0	4137.9	4198.5	4198.5	4164.7	4232.3	4191.5	4224.1	4275.4	4229.9
5°	3918.9	3896.8	3854.8	3918.9	3927.1	3895.6	3977.1	3946.9	3994.6	4057.5	4051.7
7.5°	3684.7	3656.8	3618.3	3684.7	3697.6	3676.6	3754.6	3740.7	3803.6	3885.1	3899.1
10°	3532.1	3503.0	3469.2	3529.8	3539.1	3525.1	3604.4	3596.2	3658.0	3752.3	3789.6
12.5°	3423.8	3399.3	3362.1	3426.1	3436.6	3416.8	3491.4	3487.9	3551.9	3651.0	3697.6
15°	3348.1	3318.9	3285.2	3339.9	3353.9	3331.8	3402.8	3395.8	3461.1	3558.9	3611.4
17.5°	3277.0	3250.2	3215.3	3266.5	3280.5	3257.2	3327.1	3315.5	3371.4	3464.6	3518.2
20°	3210.6	3181.5	3150.0	3202.5	3210.6	3183.8	3253.7	3238.6	3288.7	3374.9	3427.3
22.5°	3141.9	3111.6	3079.0	3130.2	3138.4	3111.6	3175.7	3158.2	3204.8	3282.8	3330.6
25°	3066.2	3038.2	3005.6	3053.3	3060.3	3031.2	3098.8	3076.6	3117.4	3186.1	3225.8
27.5°	2990.4	2963.6	2927.5	2976.5	2979.9	2952.0	3013.7	2983.4	3017.2	3080.1	3113.9
30°	2977.6	2947.3	2910.1	2949.7	2950.8	2914.7	2973.0	2936.8	2955.5	3002.1	3021.9
32.5°	3018.4	2988.1	2949.7	2982.3	2978.8	2939.2	2995.1	2950.8	2956.6	2981.1	2976.5
35°	3002.1	2966.0	2920.5	2955.5	2955.5	2907.7	2963.6	2911.2	2905.4	2908.9	2879.8
37.5°	2816.9	2788.9	2745.8	2779.6	2776.1	2740.0	2783.1	2740.0	2720.2	2712.0	2659.6
40°	2544.3	2510.5	2477.9	2514.0	2517.5	2479.0	2534.9	2486.0	2480.2	2456.9	2395.1
42.5°	2268.2	2256.5	2225.1	2255.3	2271.7	2239.0	2285.6	2262.3	2265.8	2260.0	2201.8
45°	2027.0	2007.2	1983.9	2018.9	2029.3	2013.0	2059.6	2045.7	2059.6	2088.8	2041.0
47.5°	1767.2	1747.4	1721.8	1759.1	1777.7	1747.4	1787.0	1782.4	1803.3	1853.4	1848.8
50°	1453.9	1439.9	1435.2	1439.9	1451.5	1437.6	1465.5	1466.7	1480.7	1549.4	1554.0
52.5°	1151.0	1147.5	1131.2	1146.3	1146.3	1124.2	1152.1	1139.3	1153.3	1199.9	1230.2
55°	900.5	897.0	886.5	900.5	885.4	877.2	885.4	872.5	862.1	898.2	929.6
57.5°	701.3	689.7	676.8	682.7	681.5	664.0	673.3	658.2	650.0	662.9	690.8
60°	499.8	496.3	484.6	490.4	495.1	482.3	491.6	484.6	470.6	481.1	482.3
62.5°	332.0	334.3	327.4	328.5	325.0	322.7	328.5	332.0	328.5	323.9	325.0
65°	210.9	209.7	208.5	209.7	212.0	207.4	210.9	213.2	209.7	209.7	208.5
67.5°	139.8	136.3	132.8	135.1	137.5	134.0	137.5	136.3	137.5	136.3	132.8
70°	94.4	93.2	92.0	93.2	93.2	90.9	93.2	92.0	93.2	92.0	88.5
72.5°	68.7	68.7	67.6	68.7	68.7	66.4	67.6	65.2	66.4	65.2	62.9
75°	51.3	51.3	50.1	51.3	50.1	48.9	50.1	48.9	46.6	46.6	44.3
77.5°	37.3	37.3	37.3	37.3	37.3	36.1	36.1	34.9	33.8	32.6	32.6
80°	28.0	26.8	26.8	26.8	26.8	25.6	26.8	25.6	24.5	23.3	22.1
82.5°	19.8	21.0	19.8	19.8	19.8	18.6	19.8	18.6	18.6	17.5	15.1
85°	15.1	15.1	15.1	15.1	15.1	14.0	14.0	14.0	12.8	12.8	11.6
87.5°	8.2	8.2	8.2	9.3	8.2	8.2	8.2	7.0	7.0	5.8	5.8
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°	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8
2.5°	4290.5	4296.3	4283.5	4303.3	4380.2	4318.5	4344.1	4352.3	4410.5	4421.0	4414.0
5°	4127.4	4153.1	4169.4	4213.6	4298.7	4254.4	4299.8	4329.0	4403.5	4428.0	4433.8
7.5°	3999.3	4052.9	4092.5	4164.7	4264.9	4231.1	4299.8	4347.6	4438.5	4469.9	4485.1
10°	3903.8	3985.3	4054.0	4153.1	4266.1	4243.9	4333.6	4401.2	4502.5	4539.8	4558.5
12.5°	3831.5	3930.5	4022.6	4148.4	4270.7	4260.2	4368.6	4445.5	4552.6	4589.9	4612.0
15°	3752.3	3866.5	3973.7	4114.6	4246.3	4243.9	4360.4	4442.0	4551.5	4582.9	4603.9
17.5°	3658.0	3780.3	3897.9	4050.5	4181.0	4183.3	4301.0	4381.4	4488.6	4514.2	4528.2
20°	3562.4	3683.6	3801.2	3958.5	4086.7	4090.1	4205.5	4280.0	4382.6	4403.5	4407.0
22.5°	3461.1	3574.1	3691.7	3847.8	3971.3	3973.7	4087.8	4157.7	4245.1	4255.6	4264.9
25°	3345.7	3456.4	3567.1	3722.0	3839.7	3846.7	3950.4	4012.1	4092.5	4100.6	4104.1
27.5°	3225.8	3316.6	3422.6	3555.4	3674.3	3669.6	3767.5	3837.4	3909.6	3904.9	3903.8
30°	3104.6	3180.3	3245.6	3373.7	3461.1	3464.6	3556.6	3590.4	3666.1	3656.8	3655.6
32.5°	3019.6	3039.4	3056.8	3122.1	3204.8	3175.7	3238.6	3280.5	3332.9	3329.4	3330.6
35°	2863.5	2827.3	2774.9	2784.2	2834.3	2788.9	2822.7	2821.5	2875.1	2862.3	2877.4
37.5°	2596.7	2494.2	2377.7	2311.3	2320.6	2263.5	2251.9	2279.8	2298.5	2262.3	2275.2
40°	2312.4	2161.0	1979.3	1827.8	1819.7	1748.6	1735.8	1707.8	1743.9	1713.6	1723.0
42.5°	2102.7	1902.4	1663.6	1479.5	1439.9	1380.5	1345.5	1340.9	1351.3	1330.4	1324.6
45°	1942.0	1728.8	1455.0	1244.2	1199.9	1135.8	1100.9	1088.1	1089.2	1082.2	1076.4
47.5°	1753.3	1538.9	1261.6	1046.1	996.0	935.5	900.5	892.4	897.0	887.7	880.7
50°	1492.3	1300.1	1047.3	850.4	806.1	761.9	733.9	725.8	724.6	717.6	713.0
52.5°	1211.6	1052.0	832.9	668.7	629.1	586.0	566.2	555.7	556.8	549.9	542.9
55°	937.8	838.8	645.4	505.6	469.5	435.7	417.1	404.2	400.7	393.8	390.3
57.5°	697.8	631.4	483.5	364.6	343.7	311.0	292.4	277.3	274.9	271.4	270.3
60°	489.3	441.5	340.2	259.8	235.3	215.5	196.9	181.7	174.7	173.6	170.1
62.5°	316.9	287.7	223.7	173.6	154.9	141.0	122.3	111.8	107.2	102.5	103.7
65°	196.9	174.7	139.8	111.8	101.4	90.9	76.9	67.6	62.9	58.2	59.4
67.5°	122.3	109.5	88.5	72.2	65.2	57.1	46.6	39.6	36.1	32.6	30.3
70°	82.7	71.1	60.6	51.3	46.6	40.8	33.8	28.0	25.6	23.3	21.0
72.5°	58.2	52.4	44.3	38.4	34.9	30.3	25.6	22.1	19.8	17.5	15.1
75°	41.9	37.3	32.6	28.0	25.6	23.3	19.8	17.5	15.1	12.8	10.5
77.5°	30.3	26.8	23.3	21.0	19.8	16.3	14.0	12.8	11.6	9.3	7.0
80°	21.0	18.6	15.1	14.0	14.0	11.6	10.5	9.3	8.2	5.8	4.7
82.5°	14.0	12.8	11.6	10.5	9.3	8.2	8.2	5.8	4.7	3.5	2.3
85°	10.5	9.3	8.2	7.0	7.0	5.8	4.7	3.5	3.5	2.3	1.2
87.5°	5.8	5.8	4.7	3.5	3.5	2.3	2.3	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°	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8
2.5°	4473.4	4476.9	4496.7	4481.6	4520.0	4548.0	4534.0	4565.4	4555.0	4552.6	4588.7
5°	4503.7	4511.9	4538.7	4524.7	4566.6	4596.9	4582.9	4617.9	4607.4	4605.1	4642.3
7.5°	4562.0	4570.1	4593.4	4581.8	4626.0	4652.8	4635.3	4673.8	4659.8	4658.6	4694.8
10°	4635.3	4647.0	4666.8	4655.2	4695.9	4719.2	4701.7	4739.0	4726.2	4720.4	4760.0
12.5°	4690.1	4698.3	4718.1	4708.7	4748.3	4765.8	4750.7	4786.8	4770.5	4765.8	4800.8
15°	4677.3	4685.4	4701.7	4693.6	4730.9	4747.2	4727.4	4767.0	4750.7	4741.4	4772.8
17.5°	4595.7	4600.4	4612.0	4603.9	4643.5	4654.0	4631.9	4671.5	4656.3	4640.0	4670.3
20°	4475.7	4473.4	4480.4	4476.9	4509.5	4515.4	4501.4	4530.5	4513.0	4503.7	4521.2
22.5°	4326.6	4324.3	4329.0	4319.6	4352.3	4355.8	4334.8	4369.7	4352.3	4334.8	4363.9
25°	4161.2	4148.4	4146.1	4149.6	4171.7	4175.2	4153.1	4178.7	4156.6	4142.6	4170.5
27.5°	3957.3	3941.0	3937.5	3941.0	3963.2	3946.9	3928.2	3946.9	3924.7	3911.9	3929.4
30°	3705.7	3682.4	3671.9	3664.9	3688.2	3682.4	3639.3	3660.3	3625.3	3606.7	3619.5
32.5°	3366.7	3353.9	3325.9	3309.6	3331.8	3287.5	3260.7	3260.7	3246.7	3215.3	3222.3
35°	2896.1	2876.3	2850.6	2836.7	2840.2	2780.7	2736.5	2745.8	2699.2	2691.0	2694.5
37.5°	2300.8	2268.2	2258.8	2229.7	2236.7	2184.3	2123.7	2124.9	2100.4	2074.8	2066.6
40°	1728.8	1723.0	1713.6	1689.2	1698.5	1641.4	1618.1	1619.3	1603.0	1584.3	1593.7
42.5°	1336.2	1317.6	1311.7	1303.6	1305.9	1296.6	1266.3	1269.8	1255.8	1251.2	1246.5
45°	1085.7	1065.9	1052.0	1058.9	1058.9	1048.5	1036.8	1043.8	1036.8	1027.5	1032.1
47.5°	894.7	876.0	869.1	867.9	876.0	869.1	857.4	859.7	858.6	855.1	852.7
50°	714.1	709.5	703.6	700.1	703.6	701.3	690.8	696.6	700.1	688.5	692.0
52.5°	544.0	544.0	542.9	534.7	541.7	534.7	533.5	535.9	532.4	527.7	526.6
55°	398.4	394.9	389.1	387.9	390.3	387.9	385.6	386.8	389.1	377.4	377.4
57.5°	272.6	270.3	266.8	266.8	271.4	265.6	262.1	266.8	262.1	257.5	257.5
60°	174.7	173.6	170.1	170.1	170.1	168.9	165.4	166.6	168.9	161.9	163.1
62.5°	104.8	101.4	100.2	99.0	100.2	99.0	99.0	97.9	96.7	96.7	93.2
65°	57.1	54.8	52.4	53.6	53.6	52.4	52.4	52.4	50.1	48.9	47.8
67.5°	29.1	26.8	26.8	25.6	25.6	25.6	25.6	24.5	24.5	24.5	23.3
70°	18.6	17.5	16.3	16.3	16.3	15.1	15.1	15.1	15.1	15.1	14.0
72.5°	12.8	11.6	10.5	10.5	10.5	9.3	9.3	9.3	9.3	8.2	8.2
75°	9.3	8.2	7.0	7.0	7.0	5.8	5.8	5.8	5.8	5.8	5.8
77.5°	5.8	4.7	4.7	4.7	4.7	3.5	3.5	3.5	3.5	3.5	2.3
80°	3.5	3.5	2.3	2.3	2.3	2.3	1.2	1.2	1.2	1.2	1.2
82.5°	2.3	2.3	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: P250903

CATALOG NUMBER: LSR8B70D010 EC8B70935 8LBSW0LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8
2.5°	4575.9	4566.6	4572.4	4615.5	4596.9	4591.1	4542.2	4585.3
5°	4630.7	4623.7	4623.7	4672.6	4650.5	4645.8	4598.1	4635.3
7.5°	4681.9	4675.0	4676.1	4726.2	4708.7	4701.7	4654.0	4691.3
10°	4748.3	4743.7	4744.9	4792.6	4774.0	4767.0	4718.1	4756.5
12.5°	4788.0	4781.0	4781.0	4832.2	4811.3	4800.8	4754.2	4791.4
15°	4757.7	4747.2	4747.2	4798.4	4775.1	4760.0	4719.2	4754.2
17.5°	4654.0	4643.5	4643.5	4687.8	4670.3	4648.2	4606.2	4638.8
20°	4509.5	4496.7	4493.2	4544.5	4520.0	4500.2	4462.9	4494.4
22.5°	4346.4	4340.6	4330.1	4381.4	4359.3	4338.3	4298.7	4323.1
25°	4150.7	4141.4	4130.9	4181.0	4158.9	4137.9	4106.5	4126.3
27.5°	3907.3	3908.4	3902.6	3942.2	3920.1	3908.4	3870.0	3902.6
30°	3612.5	3599.7	3595.0	3641.6	3620.7	3605.5	3557.8	3589.2
32.5°	3228.1	3209.4	3185.0	3237.4	3201.3	3188.5	3147.7	3193.1
35°	2668.9	2663.1	2640.9	2685.2	2665.4	2642.1	2616.5	2654.9
37.5°	2063.1	2067.8	2065.5	2077.1	2065.5	2050.3	2022.4	2008.4
40°	1575.0	1563.4	1554.0	1575.0	1550.6	1550.6	1534.2	1551.7
42.5°	1234.8	1230.2	1241.8	1246.5	1232.5	1230.2	1227.9	1226.7
45°	1019.3	1019.3	1021.7	1026.3	1021.7	1019.3	1012.3	1007.7
47.5°	839.9	844.6	839.9	855.1	846.9	844.6	830.6	836.4
50°	680.3	674.5	680.3	685.0	686.2	679.2	672.2	675.7
52.5°	527.7	518.4	516.1	523.1	518.4	518.4	513.7	512.6
55°	371.6	375.1	369.3	375.1	372.8	369.3	365.8	370.5
57.5°	251.6	252.8	250.5	254.0	248.1	249.3	248.1	247.0
60°	163.1	158.4	158.4	161.9	156.1	156.1	154.9	154.9
62.5°	93.2	92.0	92.0	90.9	89.7	89.7	89.7	87.4
65°	47.8	46.6	45.4	45.4	45.4	45.4	44.3	44.3
67.5°	23.3	22.1	22.1	23.3	22.1	22.1	22.1	22.1
70°	14.0	14.0	12.8	14.0	12.8	12.8	12.8	12.8
72.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
75°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
77.5°	3.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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)