

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: P251211

Luminaire Tested: **LSR8B70D010 EC8B70935 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251211  
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 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6545.0 lumens  
Efficiency: N/A  
Efficacy: 86.2 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

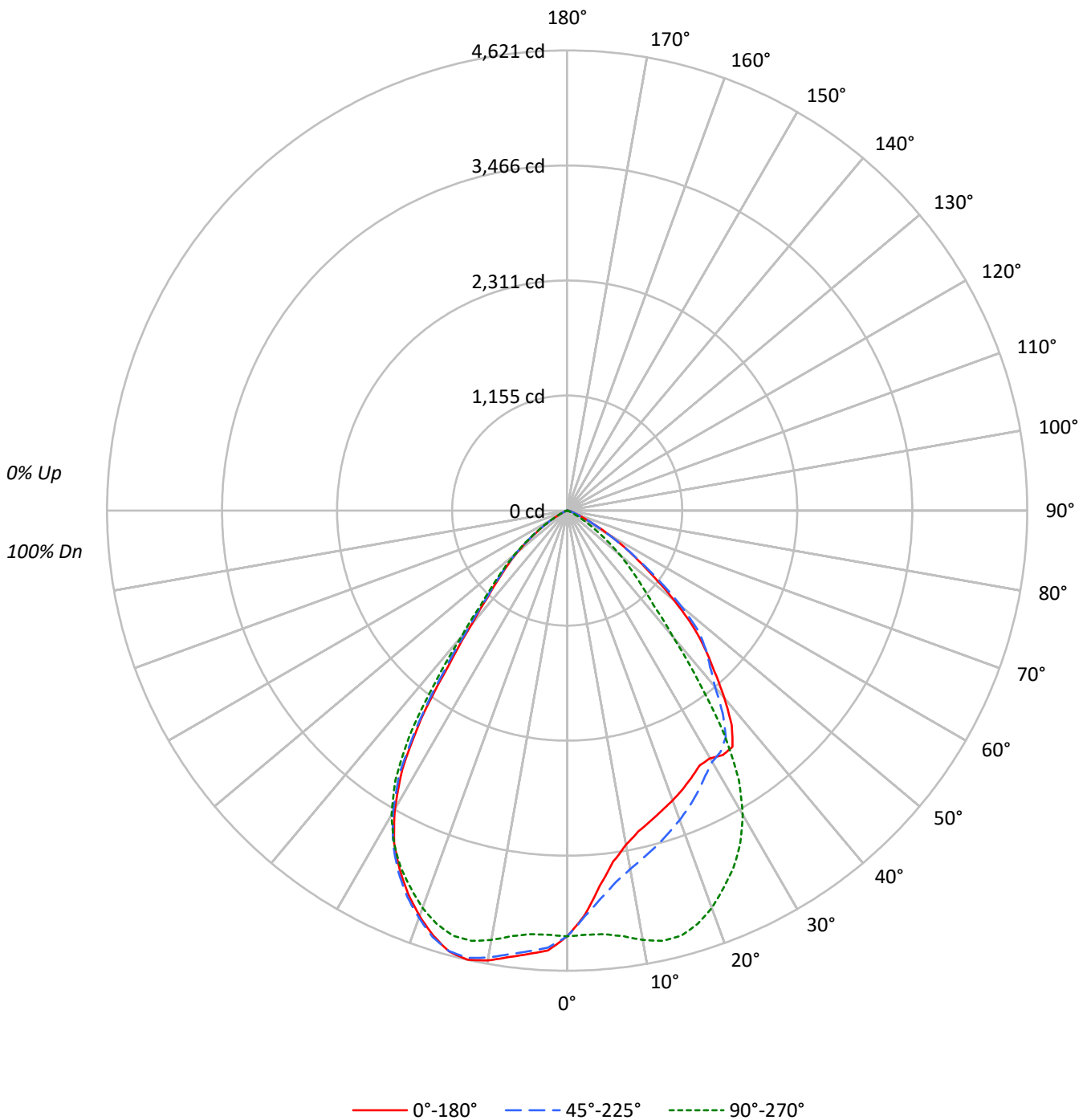
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	131847	131847	131847
5°	116982	132177	138368
10°	106655	137081	143625
15°	103073	141089	146362
20°	101600	139350	142225
25°	100602	134545	135385
30°	102241	125563	123242
35°	108980	103905	96380
40°	98763	66520	60236
45°	85243	45515	42379
50°	67258	33197	31259
55°	46686	20413	19204
60°	29720	10324	9214
65°	14834	4101	3116
70°	8205	2029	1118
75°	5886	1477	536
80°	4795	994	195
85°	5166	778	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	398.5	6.1
10°-20°	1151.0	17.6
20°-30°	1670.6	25.5
30°-40°	1645.4	25.1
40°-50°	1031.4	15.8
50°-60°	497.7	7.6
60°-70°	120.4	1.8
70°-80°	24.3	0.4
80°-90°	5.6	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°	3220.1	49.2
0°-40°	4865.5	74.3
0°-60°	6394.6	97.7
0°-90°	6545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6545.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4276	4276	4276	4276	4276	
5°	3779	3907	4270	4443	4470	350
15°	3229	3483	4420	4581	4585	913
25°	2957	3111	3954	4008	3979	1368
35°	2895	2777	2760	2603	2560	1752
45°	1955	1968	1044	1000	972	1494
55°	868	896	380	375	357	799
65°	203	201	56	48	43	232
75°	49	43	12	6	4	55
85°	15	11	2	0	0	15
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°	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7
2.5°	4064.5	4038.7	3990.4	4048.8	4048.8	4016.2	4081.4	4042.0	4073.5	4122.9	4079.1
5°	3779.2	3757.8	3717.4	3779.2	3787.0	3756.7	3835.3	3806.1	3852.2	3912.9	3907.2
7.5°	3553.4	3526.4	3489.3	3553.4	3565.7	3545.5	3620.8	3607.3	3667.9	3746.6	3760.1
10°	3406.2	3378.1	3345.5	3403.9	3412.9	3399.5	3475.8	3468.0	3527.5	3618.5	3654.5
12.5°	3301.7	3278.1	3242.2	3304.0	3314.1	3295.0	3366.9	3363.5	3425.3	3520.8	3565.7
15°	3228.7	3200.6	3168.0	3220.8	3234.3	3213.0	3281.5	3274.8	3337.7	3432.0	3482.6
17.5°	3160.2	3134.3	3100.6	3150.1	3163.5	3141.1	3208.5	3197.2	3251.2	3341.0	3392.7
20°	3096.1	3068.0	3037.7	3088.3	3096.1	3070.3	3137.7	3123.1	3171.4	3254.5	3305.1
22.5°	3029.8	3000.6	2969.2	3018.6	3026.5	3000.6	3062.4	3045.6	3090.5	3165.8	3211.8
25°	2956.8	2929.9	2898.4	2944.5	2951.2	2923.1	2988.3	2966.9	3006.3	3072.5	3110.7
27.5°	2883.8	2858.0	2823.1	2870.3	2873.7	2846.7	2906.3	2877.1	2909.6	2970.3	3002.9
30°	2871.4	2842.2	2806.3	2844.5	2845.6	2810.8	2867.0	2832.1	2850.1	2895.0	2914.1
32.5°	2910.8	2881.6	2844.5	2875.9	2872.6	2834.4	2888.3	2845.6	2851.2	2874.8	2870.3
35°	2895.0	2860.2	2816.4	2850.1	2850.1	2804.0	2858.0	2807.4	2801.8	2805.2	2777.1
37.5°	2716.4	2689.5	2647.9	2680.5	2677.1	2642.3	2683.8	2642.3	2623.2	2615.3	2564.8
40°	2453.5	2421.0	2389.5	2424.3	2427.7	2390.6	2444.6	2397.4	2391.7	2369.3	2309.7
42.5°	2187.3	2176.1	2145.7	2174.9	2190.7	2159.2	2204.1	2181.7	2185.0	2179.4	2123.3
45°	1954.7	1935.6	1913.2	1946.9	1957.0	1941.3	1986.2	1972.7	1986.2	2014.3	1968.2
47.5°	1704.2	1685.1	1660.4	1696.4	1714.3	1685.1	1723.3	1718.8	1739.0	1787.4	1782.9
50°	1402.0	1388.5	1384.0	1388.5	1399.8	1386.3	1413.3	1414.4	1427.9	1494.1	1498.6
52.5°	1109.9	1106.6	1090.8	1105.4	1105.4	1084.1	1111.1	1098.7	1112.2	1157.1	1186.3
55°	868.4	865.0	854.9	868.4	853.8	845.9	853.8	841.4	831.3	866.2	896.5
57.5°	676.3	665.1	652.7	658.3	657.2	640.3	649.3	634.7	626.9	639.2	666.2
60°	481.9	478.6	467.3	473.0	477.5	465.1	474.1	467.3	453.9	464.0	465.1
62.5°	320.2	322.4	315.7	316.8	313.4	311.2	316.8	320.2	316.8	312.3	313.4
65°	203.3	202.2	201.1	202.2	204.5	200.0	203.3	205.6	202.2	202.2	201.1
67.5°	134.8	131.4	128.1	130.3	132.6	129.2	132.6	131.4	132.6	131.4	128.1
70°	91.0	89.9	88.7	89.9	89.9	87.6	89.9	88.7	89.9	88.7	85.4
72.5°	66.3	66.3	65.2	66.3	66.3	64.0	65.2	62.9	64.0	62.9	60.7
75°	49.4	49.4	48.3	49.4	48.3	47.2	48.3	47.2	44.9	44.9	42.7
77.5°	35.9	35.9	35.9	35.9	35.9	34.8	34.8	33.7	32.6	31.5	31.5
80°	27.0	25.8	25.8	25.8	25.8	24.7	25.8	24.7	23.6	22.5	21.3
82.5°	19.1	20.2	19.1	19.1	19.1	18.0	19.1	18.0	18.0	16.9	14.6
85°	14.6	14.6	14.6	14.6	14.6	13.5	13.5	13.5	12.4	12.4	11.2
87.5°	7.9	7.9	7.9	9.0	7.9	7.9	7.9	6.7	6.7	5.6	5.6
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7
2.5°	4137.5	4143.2	4130.8	4149.9	4224.0	4164.5	4189.2	4197.1	4253.2	4263.4	4256.6
5°	3980.3	4005.0	4020.7	4063.4	4145.4	4102.7	4146.5	4174.6	4246.5	4270.1	4275.7
7.5°	3856.7	3908.4	3946.6	4016.2	4112.8	4080.2	4146.5	4192.6	4280.2	4310.5	4325.1
10°	3764.6	3843.2	3909.5	4005.0	4113.9	4092.6	4179.1	4244.3	4342.0	4377.9	4395.9
12.5°	3694.9	3790.4	3879.2	4000.5	4118.4	4108.3	4212.8	4286.9	4390.3	4426.3	4447.6
15°	3618.5	3728.6	3832.0	3967.9	4094.8	4092.6	4204.9	4283.6	4389.2	4419.5	4439.7
17.5°	3527.5	3645.5	3758.9	3906.1	4031.9	4034.2	4147.6	4225.2	4328.5	4353.2	4366.7
20°	3435.4	3552.2	3665.7	3817.4	3940.9	3944.3	4055.5	4127.4	4226.3	4246.5	4249.9
22.5°	3337.7	3446.6	3560.1	3710.6	3829.7	3832.0	3942.1	4009.5	4093.7	4103.8	4112.8
25°	3226.4	3333.2	3439.9	3589.3	3702.8	3709.5	3809.5	3869.0	3946.6	3954.4	3957.8
27.5°	3110.7	3198.4	3300.6	3428.7	3543.2	3538.8	3633.1	3700.5	3770.2	3765.7	3764.6
30°	2993.9	3066.9	3129.8	3253.4	3337.7	3341.0	3429.8	3462.4	3535.4	3526.4	3525.3
32.5°	2911.9	2931.0	2947.8	3010.8	3090.5	3062.4	3123.1	3163.5	3214.1	3210.7	3211.8
35°	2761.4	2726.5	2676.0	2685.0	2733.3	2689.5	2722.0	2720.9	2772.6	2760.2	2774.8
37.5°	2504.1	2405.2	2292.9	2228.9	2237.8	2182.8	2171.6	2198.5	2216.5	2181.7	2194.0
40°	2230.0	2083.9	1908.7	1762.6	1754.8	1686.2	1673.9	1646.9	1681.8	1652.5	1661.5
42.5°	2027.8	1834.5	1604.2	1426.7	1388.5	1331.2	1297.5	1293.1	1303.2	1282.9	1277.3
45°	1872.7	1667.1	1403.1	1199.8	1157.1	1095.3	1061.6	1049.3	1050.4	1043.7	1038.0
47.5°	1690.7	1484.0	1216.7	1008.8	960.5	902.1	868.4	860.5	865.0	856.0	849.3
50°	1439.1	1253.7	1009.9	820.1	777.4	734.7	707.8	699.9	698.8	692.0	687.5
52.5°	1168.4	1014.4	803.2	644.8	606.6	565.1	546.0	535.9	537.0	530.3	523.5
55°	904.3	808.9	622.4	487.6	452.7	420.2	402.2	389.8	386.5	379.7	376.3
57.5°	672.9	608.9	466.2	351.6	331.4	300.0	282.0	267.4	265.1	261.8	260.6
60°	471.8	425.8	328.0	250.5	226.9	207.8	189.9	175.3	168.5	167.4	164.0
62.5°	305.6	277.5	215.7	167.4	149.4	135.9	118.0	107.8	103.4	98.9	100.0
65°	189.9	168.5	134.8	107.8	97.7	87.6	74.1	65.2	60.7	56.2	57.3
67.5°	118.0	105.6	85.4	69.7	62.9	55.0	44.9	38.2	34.8	31.5	29.2
70°	79.8	68.5	58.4	49.4	44.9	39.3	32.6	27.0	24.7	22.5	20.2
72.5°	56.2	50.6	42.7	37.1	33.7	29.2	24.7	21.3	19.1	16.9	14.6
75°	40.4	35.9	31.5	27.0	24.7	22.5	19.1	16.9	14.6	12.4	10.1
77.5°	29.2	25.8	22.5	20.2	19.1	15.7	13.5	12.4	11.2	9.0	6.7
80°	20.2	18.0	14.6	13.5	13.5	11.2	10.1	9.0	7.9	5.6	4.5
82.5°	13.5	12.4	11.2	10.1	9.0	7.9	7.9	5.6	4.5	3.4	2.2
85°	10.1	9.0	7.9	6.7	6.7	5.6	4.5	3.4	3.4	2.2	1.1
87.5°	5.6	5.6	4.5	3.4	3.4	2.2	2.2	1.1	1.1	1.1	1.1
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°	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7
2.5°	4313.9	4317.3	4336.4	4321.8	4358.8	4385.8	4372.3	4402.7	4392.6	4390.3	4425.1
5°	4343.1	4351.0	4376.8	4363.3	4403.8	4433.0	4419.5	4453.2	4443.1	4440.9	4476.8
7.5°	4399.3	4407.2	4429.6	4418.4	4461.1	4486.9	4470.1	4507.1	4493.7	4492.5	4527.4
10°	4470.1	4481.3	4500.4	4489.2	4528.5	4551.0	4534.1	4570.1	4557.7	4552.1	4590.3
12.5°	4522.9	4530.7	4549.8	4540.8	4579.0	4595.9	4581.3	4616.1	4600.4	4595.9	4629.6
15°	4510.5	4518.4	4534.1	4526.2	4562.2	4577.9	4558.8	4597.0	4581.3	4572.3	4602.6
17.5°	4431.9	4436.4	4447.6	4439.7	4477.9	4488.0	4466.7	4504.9	4490.3	4474.6	4503.8
20°	4316.2	4313.9	4320.7	4317.3	4348.7	4354.4	4340.9	4369.0	4352.1	4343.1	4360.0
22.5°	4172.4	4170.1	4174.6	4165.6	4197.1	4200.4	4180.2	4213.9	4197.1	4180.2	4208.3
25°	4012.8	4000.5	3998.2	4001.6	4022.9	4026.3	4005.0	4029.7	4008.3	3994.9	4021.8
27.5°	3816.2	3800.5	3797.1	3800.5	3821.9	3806.1	3788.2	3806.1	3784.8	3772.4	3789.3
30°	3573.6	3551.1	3541.0	3534.3	3556.7	3551.1	3509.5	3529.8	3496.1	3478.1	3490.4
32.5°	3246.7	3234.3	3207.3	3191.6	3213.0	3170.3	3144.4	3144.4	3131.0	3100.6	3107.4
35°	2792.8	2773.7	2749.0	2735.5	2738.9	2681.6	2638.9	2647.9	2603.0	2595.1	2598.5
37.5°	2218.7	2187.3	2178.3	2150.2	2157.0	2106.4	2048.0	2049.1	2025.5	2000.8	1992.9
40°	1667.1	1661.5	1652.5	1629.0	1637.9	1582.9	1560.4	1561.5	1545.8	1527.8	1536.8
42.5°	1288.6	1270.6	1265.0	1257.1	1259.3	1250.4	1221.2	1224.5	1211.0	1206.5	1202.1
45°	1047.0	1027.9	1014.4	1021.2	1021.2	1011.1	999.8	1006.6	999.8	990.9	995.3
47.5°	862.8	844.8	838.1	836.9	844.8	838.1	826.8	829.1	828.0	824.6	822.3
50°	688.7	684.2	678.5	675.2	678.5	676.3	666.2	671.8	675.2	663.9	667.3
52.5°	524.6	524.6	523.5	515.6	522.4	515.6	514.5	516.8	513.4	508.9	507.8
55°	384.2	380.8	375.2	374.1	376.3	374.1	371.9	373.0	375.2	364.0	364.0
57.5°	262.9	260.6	257.3	257.3	261.8	256.1	252.8	257.3	252.8	248.3	248.3
60°	168.5	167.4	164.0	164.0	164.0	162.9	159.5	160.6	162.9	156.2	157.3
62.5°	101.1	97.7	96.6	95.5	96.6	95.5	95.5	94.4	93.2	93.2	89.9
65°	55.0	52.8	50.6	51.7	51.7	50.6	50.6	50.6	48.3	47.2	46.1
67.5°	28.1	25.8	25.8	24.7	24.7	24.7	24.7	23.6	23.6	23.6	22.5
70°	18.0	16.9	15.7	15.7	15.7	14.6	14.6	14.6	14.6	14.6	13.5
72.5°	12.4	11.2	10.1	10.1	10.1	9.0	9.0	9.0	9.0	7.9	7.9
75°	9.0	7.9	6.7	6.7	6.7	5.6	5.6	5.6	5.6	5.6	5.6
77.5°	5.6	4.5	4.5	4.5	4.5	3.4	3.4	3.4	3.4	3.4	2.2
80°	3.4	3.4	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1
82.5°	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0
87.5°	1.1	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: P251211

CATALOG NUMBER: LSR8B70D010 EC8B70935 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7	4275.7
2.5°	4412.8	4403.8	4409.4	4451.0	4433.0	4427.4	4380.2	4421.8
5°	4465.6	4458.8	4458.8	4506.0	4484.7	4480.2	4434.1	4470.1
7.5°	4515.0	4508.3	4509.4	4557.7	4540.8	4534.1	4488.0	4524.0
10°	4579.0	4574.5	4575.7	4621.7	4603.8	4597.0	4549.8	4586.9
12.5°	4617.2	4610.5	4610.5	4659.9	4639.7	4629.6	4584.7	4620.6
15°	4588.0	4577.9	4577.9	4627.3	4604.9	4590.3	4551.0	4584.7
17.5°	4488.0	4477.9	4477.9	4520.6	4503.8	4482.4	4442.0	4473.4
20°	4348.7	4336.4	4333.0	4382.4	4358.8	4339.8	4303.8	4334.1
22.5°	4191.5	4185.8	4175.7	4225.2	4203.8	4183.6	4145.4	4169.0
25°	4002.7	3993.7	3983.6	4031.9	4010.6	3990.4	3960.0	3979.1
27.5°	3767.9	3769.1	3763.4	3801.6	3780.3	3769.1	3732.0	3763.4
30°	3483.7	3471.4	3466.9	3511.8	3491.6	3477.0	3430.9	3461.2
32.5°	3113.0	3095.0	3071.4	3122.0	3087.1	3074.8	3035.5	3079.3
35°	2573.7	2568.1	2546.8	2589.5	2570.4	2547.9	2523.2	2560.3
37.5°	1989.6	1994.1	1991.8	2003.0	1991.8	1977.2	1950.2	1936.8
40°	1518.9	1507.6	1498.6	1518.9	1495.3	1495.3	1479.5	1496.4
42.5°	1190.8	1186.3	1197.6	1202.1	1188.6	1186.3	1184.1	1183.0
45°	983.0	983.0	985.2	989.7	985.2	983.0	976.2	971.8
47.5°	810.0	814.5	810.0	824.6	816.7	814.5	801.0	806.6
50°	656.1	650.5	656.1	660.6	661.7	655.0	648.2	651.6
52.5°	508.9	499.9	497.7	504.4	499.9	499.9	495.4	494.3
55°	358.4	361.7	356.1	361.7	359.5	356.1	352.8	357.2
57.5°	242.7	243.8	241.5	244.9	239.3	240.4	239.3	238.2
60°	157.3	152.8	152.8	156.2	150.5	150.5	149.4	149.4
62.5°	89.9	88.7	88.7	87.6	86.5	86.5	86.5	84.3
65°	46.1	44.9	43.8	43.8	43.8	43.8	42.7	42.7
67.5°	22.5	21.3	21.3	22.5	21.3	21.3	21.3	21.3
70°	13.5	13.5	12.4	13.5	12.4	12.4	12.4	12.4
72.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
75°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	3.4	2.2	2.2	2.2	2.2	2.2	2.2	2.2
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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)