

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: P251215

Luminaire Tested: **LSR8B70D010 EC8B70950 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251215  
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 EC8B70950 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7077.0 lumens  
Efficiency: N/A  
Efficacy: 93.2 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

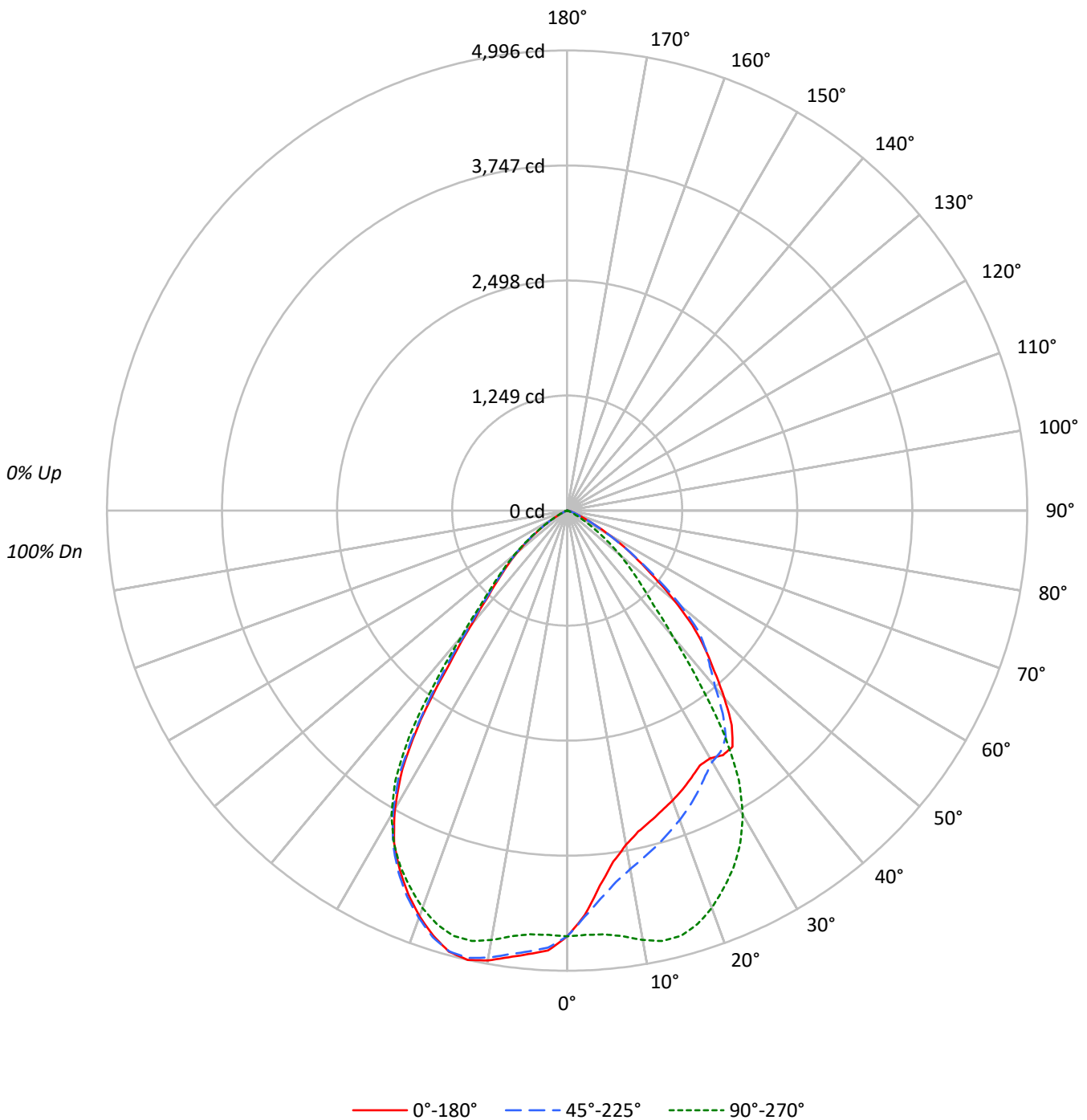
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	142566	142566	142566
5°	126491	142921	149614
10°	115325	148225	155298
15°	111450	152556	158257
20°	109859	150678	153786
25°	108782	145480	146392
30°	110552	135768	133262
35°	117841	112353	104214
40°	106794	71930	65131
45°	92172	49213	45820
50°	72727	35898	33797
55°	50482	22074	20768
60°	32138	11163	9966
65°	16045	4429	3371
70°	8872	2191	1208
75°	6362	1597	584
80°	5185	1083	213
85°	5590	849	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	430.9	6.1
10°-20°	1244.6	17.6
20°-30°	1806.4	25.5
30°-40°	1779.1	25.1
40°-50°	1115.2	15.8
50°-60°	538.2	7.6
60°-70°	130.2	1.8
70°-80°	26.3	0.4
80°-90°	6.0	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°	3481.9	49.2
0°-40°	5261.0	74.3
0°-60°	6914.4	97.7
0°-90°	7077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7077.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4623	4623	4623	4623	4623	
5°	4086	4225	4617	4804	4833	378
15°	3491	3766	4779	4954	4957	987
25°	3197	3364	4276	4334	4303	1480
35°	3130	3003	2985	2814	2768	1894
45°	2114	2128	1128	1081	1051	1616
55°	939	969	411	406	386	864
65°	220	217	61	52	46	251
75°	53	46	13	6	5	60
85°	16	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°	4623.3	4623.3	4623.3	4623.3	4623.3	4623.3	4623.3	4623.3	4623.3	4623.3	4623.3
2.5°	4394.9	4367.0	4314.7	4377.9	4377.9	4342.7	4413.1	4370.6	4404.6	4458.1	4410.7
5°	4086.4	4063.3	4019.5	4086.4	4094.9	4062.1	4147.1	4115.5	4165.3	4230.9	4224.8
7.5°	3842.2	3813.0	3772.9	3842.2	3855.6	3833.7	3915.1	3900.5	3966.1	4051.1	4065.7
10°	3683.1	3652.7	3617.5	3680.6	3690.3	3675.8	3758.4	3749.9	3814.3	3912.6	3951.5
12.5°	3570.1	3544.6	3505.7	3572.5	3583.5	3562.8	3640.5	3636.9	3703.7	3807.0	3855.6
15°	3491.1	3460.8	3425.5	3482.6	3497.2	3474.1	3548.2	3540.9	3609.0	3711.0	3765.7
17.5°	3417.0	3389.1	3352.7	3406.1	3420.7	3396.4	3469.3	3457.1	3515.4	3612.6	3668.5
20°	3347.8	3317.4	3284.6	3339.3	3347.8	3319.9	3392.7	3376.9	3429.2	3519.1	3573.7
22.5°	3276.1	3244.5	3210.5	3264.0	3272.5	3244.5	3311.4	3293.1	3341.7	3423.1	3472.9
25°	3197.2	3168.0	3134.0	3183.8	3191.1	3160.7	3231.2	3208.1	3250.6	3322.3	3363.6
27.5°	3118.2	3090.3	3052.6	3103.6	3107.3	3078.1	3142.5	3110.9	3146.1	3211.7	3247.0
30°	3104.8	3073.3	3034.4	3075.7	3076.9	3039.3	3100.0	3062.3	3081.8	3130.4	3151.0
32.5°	3147.4	3115.8	3075.7	3109.7	3106.1	3064.8	3123.1	3076.9	3083.0	3108.5	3103.6
35°	3130.4	3092.7	3045.3	3081.8	3081.8	3032.0	3090.3	3035.6	3029.5	3033.2	3002.8
37.5°	2937.2	2908.1	2863.1	2898.3	2894.7	2857.0	2902.0	2857.0	2836.4	2827.9	2773.2
40°	2653.0	2617.7	2583.7	2621.4	2625.0	2584.9	2643.3	2592.2	2586.2	2561.9	2497.5
42.5°	2365.1	2352.9	2320.1	2351.7	2368.7	2334.7	2383.3	2359.0	2362.6	2356.6	2295.8
45°	2113.6	2093.0	2068.7	2105.1	2116.1	2099.1	2147.6	2133.1	2147.6	2178.0	2128.2
47.5°	1842.7	1822.1	1795.4	1834.2	1853.7	1822.1	1863.4	1858.5	1880.4	1932.6	1927.8
50°	1516.0	1501.4	1496.5	1501.4	1513.6	1499.0	1528.1	1529.3	1543.9	1615.6	1620.4
52.5°	1200.2	1196.5	1179.5	1195.3	1195.3	1172.2	1201.4	1188.0	1202.6	1251.2	1282.8
55°	939.0	935.3	924.4	939.0	923.2	914.7	923.2	909.8	898.9	936.6	969.4
57.5°	731.3	719.1	705.8	711.8	710.6	692.4	702.1	686.3	677.8	691.2	720.3
60°	521.1	517.5	505.3	511.4	516.3	502.9	512.6	505.3	490.8	501.7	502.9
62.5°	346.2	348.6	341.3	342.6	338.9	336.5	342.6	346.2	342.6	337.7	338.9
65°	219.9	218.7	217.4	218.7	221.1	216.2	219.9	222.3	218.7	218.7	217.4
67.5°	145.8	142.1	138.5	140.9	143.3	139.7	143.3	142.1	143.3	142.1	138.5
70°	98.4	97.2	96.0	97.2	97.2	94.7	97.2	96.0	97.2	96.0	92.3
72.5°	71.7	71.7	70.5	71.7	71.7	69.2	70.5	68.0	69.2	68.0	65.6
75°	53.4	53.4	52.2	53.4	52.2	51.0	52.2	51.0	48.6	48.6	46.2
77.5°	38.9	38.9	38.9	38.9	38.9	37.7	37.7	36.4	35.2	34.0	34.0
80°	29.2	27.9	27.9	27.9	27.9	26.7	27.9	26.7	25.5	24.3	23.1
82.5°	20.7	21.9	20.7	20.7	20.7	19.4	20.7	19.4	19.4	18.2	15.8
85°	15.8	15.8	15.8	15.8	15.8	14.6	14.6	14.6	13.4	13.4	12.1
87.5°	8.5	8.5	8.5	9.7	8.5	8.5	8.5	7.3	7.3	6.1	6.1
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4623.3	4623.3	4623.3	4623.3	4623.3	4623.3	4623.3	4623.3	4623.3	4623.3	4623.3
2.5°	4473.8	4479.9	4466.6	4487.2	4567.4	4503.0	4529.7	4538.2	4599.0	4609.9	4602.6
5°	4303.8	4330.5	4347.5	4393.7	4482.4	4436.2	4483.6	4513.9	4591.7	4617.2	4623.3
7.5°	4170.2	4226.0	4267.3	4342.7	4447.1	4411.9	4483.6	4533.4	4628.1	4660.9	4676.7
10°	4070.6	4155.6	4227.3	4330.5	4448.3	4425.3	4518.8	4589.2	4694.9	4733.8	4753.2
12.5°	3995.2	4098.5	4194.5	4325.7	4453.2	4442.3	4555.2	4635.4	4747.2	4786.0	4809.1
15°	3912.6	4031.7	4143.4	4290.4	4427.7	4425.3	4546.7	4631.8	4745.9	4778.7	4800.6
17.5°	3814.3	3941.8	4064.5	4223.6	4359.7	4362.1	4484.8	4568.6	4680.4	4707.1	4721.7
20°	3714.6	3841.0	3963.7	4127.7	4261.3	4264.9	4385.2	4462.9	4569.8	4591.7	4595.3
22.5°	3609.0	3726.8	3849.5	4012.3	4141.0	4143.4	4262.5	4335.4	4426.5	4437.4	4447.1
25°	3488.7	3604.1	3719.5	3881.1	4003.7	4011.0	4119.1	4183.5	4267.3	4275.8	4279.5
27.5°	3363.6	3458.3	3568.9	3707.4	3831.3	3826.4	3928.4	4001.3	4076.6	4071.8	4070.6
30°	3237.3	3316.2	3384.2	3517.9	3609.0	3612.6	3708.6	3743.8	3822.8	3813.0	3811.8
32.5°	3148.6	3169.2	3187.5	3255.5	3341.7	3311.4	3376.9	3420.7	3475.3	3471.7	3472.9
35°	2985.8	2948.1	2893.5	2903.2	2955.4	2908.1	2943.3	2942.1	2998.0	2984.6	3000.4
37.5°	2707.6	2600.7	2479.3	2410.0	2419.7	2360.2	2348.1	2377.2	2396.7	2359.0	2372.4
40°	2411.2	2253.3	2063.8	1905.9	1897.4	1823.3	1809.9	1780.8	1818.5	1786.9	1796.6
42.5°	2192.6	1983.7	1734.6	1542.7	1501.4	1439.5	1403.0	1398.2	1409.1	1387.2	1381.1
45°	2025.0	1802.7	1517.2	1297.3	1251.2	1184.4	1147.9	1134.6	1135.8	1128.5	1122.4
47.5°	1828.2	1604.7	1315.6	1090.8	1038.6	975.4	939.0	930.5	935.3	925.6	918.3
50°	1556.1	1355.6	1092.0	886.8	840.6	794.4	765.3	756.8	755.6	748.3	743.4
52.5°	1263.3	1096.9	868.5	697.3	656.0	611.0	590.4	579.4	580.6	573.4	566.1
55°	977.9	874.6	673.0	527.2	489.5	454.3	434.9	421.5	417.9	410.6	406.9
57.5°	727.6	658.4	504.1	380.2	358.3	324.3	304.9	289.1	286.7	283.0	281.8
60°	510.2	460.4	354.7	270.9	245.4	224.7	205.3	189.5	182.2	181.0	177.4
62.5°	330.4	300.0	233.2	181.0	161.6	147.0	127.5	116.6	111.8	106.9	108.1
65°	205.3	182.2	145.8	116.6	105.7	94.7	80.2	70.5	65.6	60.7	62.0
67.5°	127.5	114.2	92.3	75.3	68.0	59.5	48.6	41.3	37.7	34.0	31.6
70°	86.2	74.1	63.2	53.4	48.6	42.5	35.2	29.2	26.7	24.3	21.9
72.5°	60.7	54.7	46.2	40.1	36.4	31.6	26.7	23.1	20.7	18.2	15.8
75°	43.7	38.9	34.0	29.2	26.7	24.3	20.7	18.2	15.8	13.4	10.9
77.5°	31.6	27.9	24.3	21.9	20.7	17.0	14.6	13.4	12.1	9.7	7.3
80°	21.9	19.4	15.8	14.6	14.6	12.1	10.9	9.7	8.5	6.1	4.9
82.5°	14.6	13.4	12.1	10.9	9.7	8.5	8.5	6.1	4.9	3.6	2.4
85°	10.9	9.7	8.5	7.3	7.3	6.1	4.9	3.6	3.6	2.4	1.2
87.5°	6.1	6.1	4.9	3.6	3.6	2.4	2.4	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°	4623.3	4623.3	4623.3	4623.3	4623.3	4623.3	4623.3	4623.3	4623.3	4623.3	4623.3
2.5°	4664.6	4668.2	4688.9	4673.1	4713.2	4742.3	4727.7	4760.5	4749.6	4747.2	4784.8
5°	4696.1	4704.6	4732.6	4718.0	4761.7	4793.3	4778.7	4815.2	4804.3	4801.8	4840.7
7.5°	4756.9	4765.4	4789.7	4777.5	4823.7	4851.6	4833.4	4873.5	4858.9	4857.7	4895.4
10°	4833.4	4845.6	4866.2	4854.1	4896.6	4920.9	4902.6	4941.5	4928.2	4922.1	4963.4
12.5°	4890.5	4899.0	4919.7	4909.9	4951.2	4969.5	4953.7	4991.3	4974.3	4969.5	5005.9
15°	4877.1	4885.6	4902.6	4894.1	4933.0	4950.0	4929.4	4970.7	4953.7	4943.9	4976.7
17.5°	4792.1	4797.0	4809.1	4800.6	4841.9	4852.8	4829.8	4871.1	4855.3	4838.3	4869.9
20°	4667.0	4664.6	4671.8	4668.2	4702.2	4708.3	4693.7	4724.1	4705.9	4696.1	4714.4
22.5°	4511.5	4509.1	4513.9	4504.2	4538.2	4541.9	4520.0	4556.5	4538.2	4520.0	4550.4
25°	4339.0	4325.7	4323.2	4326.9	4349.9	4353.6	4330.5	4357.2	4334.2	4319.6	4348.7
27.5°	4126.4	4109.4	4105.8	4109.4	4132.5	4115.5	4096.1	4115.5	4092.4	4079.1	4097.3
30°	3864.1	3839.8	3828.8	3821.5	3845.8	3839.8	3794.8	3816.7	3780.2	3760.8	3774.2
32.5°	3510.6	3497.2	3468.1	3451.0	3474.1	3428.0	3400.0	3400.0	3385.5	3352.7	3359.9
35°	3019.8	2999.2	2972.4	2957.9	2961.5	2899.6	2853.4	2863.1	2814.5	2806.0	2809.7
37.5°	2399.1	2365.1	2355.4	2325.0	2332.3	2277.6	2214.5	2215.7	2190.2	2163.4	2154.9
40°	1802.7	1796.6	1786.9	1761.4	1771.1	1711.6	1687.3	1688.5	1671.5	1652.0	1661.7
42.5°	1393.3	1373.9	1367.8	1359.3	1361.7	1352.0	1320.4	1324.1	1309.5	1304.6	1299.8
45°	1132.1	1111.5	1096.9	1104.2	1104.2	1093.3	1081.1	1088.4	1081.1	1071.4	1076.3
47.5°	932.9	913.5	906.2	905.0	913.5	906.2	894.0	896.5	895.3	891.6	889.2
50°	744.6	739.8	733.7	730.1	733.7	731.3	720.3	726.4	730.1	717.9	721.5
52.5°	567.3	567.3	566.1	557.6	564.8	557.6	556.3	558.8	555.1	550.3	549.1
55°	415.4	411.8	405.7	404.5	406.9	404.5	402.1	403.3	405.7	393.6	393.6
57.5°	284.2	281.8	278.2	278.2	283.0	277.0	273.3	278.2	273.3	268.5	268.5
60°	182.2	181.0	177.4	177.4	177.4	176.1	172.5	173.7	176.1	168.8	170.1
62.5°	109.3	105.7	104.5	103.3	104.5	103.3	103.3	102.0	100.8	100.8	97.2
65°	59.5	57.1	54.7	55.9	55.9	54.7	54.7	54.7	52.2	51.0	49.8
67.5°	30.4	27.9	27.9	26.7	26.7	26.7	26.7	25.5	25.5	25.5	24.3
70°	19.4	18.2	17.0	17.0	17.0	15.8	15.8	15.8	15.8	15.8	14.6
72.5°	13.4	12.1	10.9	10.9	10.9	9.7	9.7	9.7	9.7	8.5	8.5
75°	9.7	8.5	7.3	7.3	7.3	6.1	6.1	6.1	6.1	6.1	6.1
77.5°	6.1	4.9	4.9	4.9	4.9	3.6	3.6	3.6	3.6	3.6	2.4
80°	3.6	3.6	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2
82.5°	2.4	2.4	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: P251215

CATALOG NUMBER: LSR8B70D010 EC8B70950 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4623.3	4623.3	4623.3	4623.3	4623.3	4623.3	4623.3	4623.3
2.5°	4771.5	4761.7	4767.8	4812.8	4793.3	4787.2	4736.2	4781.2
5°	4828.5	4821.3	4821.3	4872.3	4849.2	4844.3	4794.5	4833.4
7.5°	4882.0	4874.7	4875.9	4928.2	4909.9	4902.6	4852.8	4891.7
10°	4951.2	4946.4	4947.6	4997.4	4978.0	4970.7	4919.7	4959.7
12.5°	4992.5	4985.2	4985.2	5038.7	5016.8	5005.9	4957.3	4996.2
15°	4961.0	4950.0	4950.0	5003.5	4979.2	4963.4	4920.9	4957.3
17.5°	4852.8	4841.9	4841.9	4888.1	4869.9	4846.8	4803.0	4837.1
20°	4702.2	4688.9	4685.2	4738.7	4713.2	4692.5	4653.6	4686.4
22.5°	4532.2	4526.1	4515.1	4568.6	4545.5	4523.7	4482.4	4507.9
25°	4328.1	4318.4	4307.4	4359.7	4336.6	4314.7	4281.9	4302.6
27.5°	4074.2	4075.4	4069.3	4110.6	4087.6	4075.4	4035.3	4069.3
30°	3766.9	3753.5	3748.7	3797.2	3775.4	3759.6	3709.8	3742.6
32.5°	3366.0	3346.6	3321.1	3375.7	3338.1	3324.7	3282.2	3329.6
35°	2782.9	2776.9	2753.8	2800.0	2779.3	2755.0	2728.3	2768.4
37.5°	2151.3	2156.1	2153.7	2165.9	2153.7	2137.9	2108.8	2094.2
40°	1642.3	1630.2	1620.4	1642.3	1616.8	1616.8	1599.8	1618.0
42.5°	1287.6	1282.8	1294.9	1299.8	1285.2	1282.8	1280.3	1279.1
45°	1062.9	1062.9	1065.3	1070.2	1065.3	1062.9	1055.6	1050.7
47.5°	875.8	880.7	875.8	891.6	883.1	880.7	866.1	872.2
50°	709.4	703.3	709.4	714.3	715.5	708.2	700.9	704.5
52.5°	550.3	540.6	538.1	545.4	540.6	540.6	535.7	534.5
55°	387.5	391.1	385.1	391.1	388.7	385.1	381.4	386.3
57.5°	262.4	263.6	261.2	264.8	258.7	260.0	258.7	257.5
60°	170.1	165.2	165.2	168.8	162.8	162.8	161.6	161.6
62.5°	97.2	96.0	96.0	94.7	93.5	93.5	93.5	91.1
65°	49.8	48.6	47.4	47.4	47.4	47.4	46.2	46.2
67.5°	24.3	23.1	23.1	24.3	23.1	23.1	23.1	23.1
70°	14.6	14.6	13.4	14.6	13.4	13.4	13.4	13.4
72.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
75°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
77.5°	3.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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)