

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: P250889

Luminaire Tested: **LSR8B70D010 EC8B70827 8LBSWOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250889  
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 EC8B70827 8LBSW0LI  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7466.0 lumens  
Efficiency: N/A  
Efficacy: 98.4 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

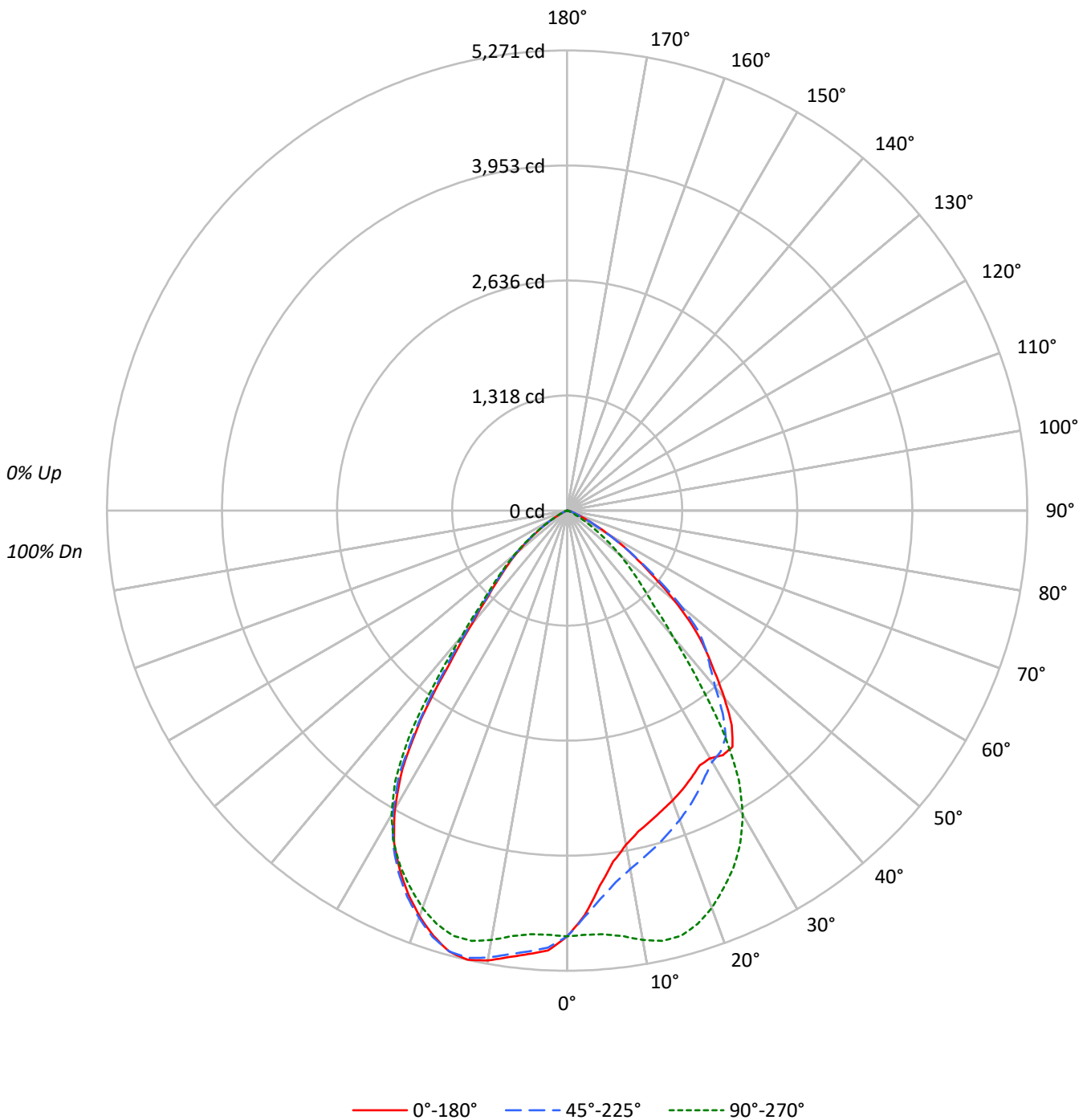
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	150401	150401	150401
5°	133443	150777	157838
10°	121663	156372	163837
15°	117576	160942	166957
20°	115897	158961	162239
25°	114760	153479	154439
30°	116630	143232	140586
35°	124316	118526	109940
40°	112663	75883	68713
45°	97240	51917	48341
50°	76723	37870	35658
55°	53256	23284	21908
60°	33908	11773	10509
65°	16928	4677	3553
70°	9359	2308	1271
75°	6720	1680	608
80°	5469	1137	231
85°	5909	920	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	454.6	6.1
10°-20°	1313.0	17.6
20°-30°	1905.7	25.5
30°-40°	1876.9	25.1
40°-50°	1176.5	15.8
50°-60°	567.7	7.6
60°-70°	137.4	1.8
70°-80°	27.8	0.4
80°-90°	6.4	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°	3673.3	49.2
0°-40°	5550.2	74.3
0°-60°	7294.5	97.7
0°-90°	7466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7466.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4877	4877	4877	4877	4877	
5°	4311	4457	4871	5068	5099	399
15°	3683	3973	5041	5226	5230	1041
25°	3373	3548	4511	4572	4539	1561
35°	3302	3168	3149	2969	2920	1998
45°	2230	2245	1190	1140	1108	1705
55°	991	1023	433	428	408	911
65°	232	229	64	55	49	265
75°	56	49	14	6	5	63
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°	4877.4	4877.4	4877.4	4877.4	4877.4	4877.4	4877.4	4877.4	4877.4	4877.4	4877.4
2.5°	4636.5	4607.0	4551.9	4618.5	4618.5	4581.4	4655.7	4610.8	4646.7	4703.1	4653.1
5°	4311.0	4286.6	4240.5	4311.0	4319.9	4285.3	4375.0	4341.7	4394.3	4463.5	4457.1
7.5°	4053.4	4022.6	3980.3	4053.4	4067.5	4044.4	4130.3	4114.9	4184.1	4273.8	4289.2
10°	3885.5	3853.5	3816.3	3882.9	3893.2	3877.8	3965.0	3956.0	4023.9	4127.7	4168.7
12.5°	3766.3	3739.4	3698.4	3768.9	3780.4	3758.6	3840.7	3836.8	3907.3	4016.2	4067.5
15°	3683.0	3651.0	3613.8	3674.1	3689.4	3665.1	3743.3	3735.6	3807.3	3915.0	3972.6
17.5°	3604.9	3575.4	3536.9	3593.3	3608.7	3583.1	3660.0	3647.1	3708.7	3811.2	3870.1
20°	3531.8	3499.8	3465.2	3522.8	3531.8	3502.3	3579.2	3562.6	3617.7	3712.5	3770.2
22.5°	3456.2	3422.9	3387.0	3443.4	3452.4	3422.9	3493.4	3474.1	3525.4	3611.3	3663.8
25°	3372.9	3342.2	3306.3	3358.8	3366.5	3334.5	3408.8	3384.4	3429.3	3504.9	3548.5
27.5°	3289.6	3260.1	3220.4	3274.2	3278.1	3247.3	3315.2	3281.9	3319.1	3388.3	3425.4
30°	3275.5	3242.2	3201.2	3244.8	3246.0	3206.3	3270.4	3230.7	3251.2	3302.4	3324.2
32.5°	3320.4	3287.0	3244.8	3280.6	3276.8	3233.2	3294.7	3246.0	3252.4	3279.4	3274.2
35°	3302.4	3262.7	3212.7	3251.2	3251.2	3198.6	3260.1	3202.5	3196.1	3199.9	3167.9
37.5°	3098.7	3067.9	3020.5	3057.7	3053.8	3014.1	3061.5	3014.1	2992.3	2983.3	2925.7
40°	2798.8	2761.6	2725.7	2765.5	2769.3	2727.0	2788.5	2734.7	2728.3	2702.7	2634.8
42.5°	2495.1	2482.3	2447.7	2481.0	2498.9	2463.0	2514.3	2488.7	2492.5	2486.1	2422.0
45°	2229.8	2208.0	2182.4	2220.8	2232.4	2214.4	2265.7	2250.3	2265.7	2297.7	2245.2
47.5°	1944.0	1922.2	1894.1	1935.1	1955.6	1922.2	1965.8	1960.7	1983.8	2038.9	2033.7
50°	1599.3	1583.9	1578.8	1583.9	1596.7	1581.4	1612.1	1613.4	1628.8	1704.4	1709.5
52.5°	1266.1	1262.3	1244.3	1261.0	1261.0	1236.6	1267.4	1253.3	1268.7	1319.9	1353.3
55°	990.6	986.8	975.2	990.6	973.9	965.0	973.9	959.8	948.3	988.0	1022.6
57.5°	771.5	758.6	744.6	751.0	749.7	730.5	740.7	724.0	715.1	729.2	759.9
60°	549.8	545.9	533.1	539.5	544.6	530.5	540.8	533.1	517.7	529.3	530.5
62.5°	365.2	367.8	360.1	361.4	357.5	355.0	361.4	365.2	361.4	356.3	357.5
65°	232.0	230.7	229.4	230.7	233.2	228.1	232.0	234.5	230.7	230.7	229.4
67.5°	153.8	149.9	146.1	148.7	151.2	147.4	151.2	149.9	151.2	149.9	146.1
70°	103.8	102.5	101.2	102.5	102.5	100.0	102.5	101.2	102.5	101.2	97.4
72.5°	75.6	75.6	74.3	75.6	75.6	73.0	74.3	71.8	73.0	71.8	69.2
75°	56.4	56.4	55.1	56.4	55.1	53.8	55.1	53.8	51.3	51.3	48.7
77.5°	41.0	41.0	41.0	41.0	41.0	39.7	39.7	38.4	37.2	35.9	35.9
80°	30.8	29.5	29.5	29.5	29.5	28.2	29.5	28.2	26.9	25.6	24.3
82.5°	21.8	23.1	21.8	21.8	21.8	20.5	21.8	20.5	20.5	19.2	16.7
85°	16.7	16.7	16.7	16.7	16.7	15.4	15.4	15.4	14.1	14.1	12.8
87.5°	9.0	9.0	9.0	10.3	9.0	9.0	9.0	7.7	7.7	6.4	6.4
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°	4877.4	4877.4	4877.4	4877.4	4877.4	4877.4	4877.4	4877.4	4877.4	4877.4	4877.4
2.5°	4719.8	4726.2	4712.1	4733.9	4818.4	4750.5	4778.7	4787.7	4851.8	4863.3	4855.6
5°	4540.4	4568.5	4586.5	4635.2	4728.7	4680.0	4730.0	4762.1	4844.1	4871.0	4877.4
7.5°	4399.4	4458.3	4501.9	4581.4	4691.6	4654.4	4730.0	4782.6	4882.5	4917.1	4933.8
10°	4294.3	4384.0	4459.6	4568.5	4692.9	4668.5	4767.2	4841.5	4953.0	4994.0	5014.5
12.5°	4214.9	4323.8	4425.0	4563.4	4698.0	4686.4	4805.6	4890.2	5008.1	5049.1	5073.5
15°	4127.7	4253.3	4371.2	4526.3	4671.1	4668.5	4796.7	4886.4	5006.8	5041.4	5064.5
17.5°	4023.9	4158.5	4287.9	4455.8	4599.3	4601.9	4731.3	4819.7	4937.6	4965.8	4981.2
20°	3918.8	4052.1	4181.5	4354.5	4495.5	4499.3	4626.2	4708.2	4821.0	4844.1	4847.9
22.5°	3807.3	3931.6	4061.1	4232.8	4368.6	4371.2	4496.8	4573.7	4669.8	4681.3	4691.6
25°	3680.5	3802.2	3924.0	4094.4	4223.8	4231.5	4345.6	4413.5	4501.9	4510.9	4514.7
27.5°	3548.5	3648.4	3765.0	3911.1	4041.8	4036.7	4144.4	4221.3	4300.7	4295.6	4294.3
30°	3415.2	3498.5	3570.3	3711.2	3807.3	3811.2	3912.4	3949.6	4032.9	4022.6	4021.3
32.5°	3321.6	3343.4	3362.7	3434.4	3525.4	3493.4	3562.6	3608.7	3666.4	3662.5	3663.8
35°	3149.9	3110.2	3052.5	3062.8	3117.9	3067.9	3105.1	3103.8	3162.7	3148.6	3165.3
37.5°	2856.5	2743.7	2615.5	2542.5	2552.7	2490.0	2477.1	2507.9	2528.4	2488.7	2502.8
40°	2543.8	2377.2	2177.3	2010.7	2001.7	1923.5	1909.4	1878.7	1918.4	1885.1	1895.3
42.5°	2313.1	2092.7	1830.0	1627.5	1583.9	1518.6	1480.1	1475.0	1486.5	1463.5	1457.1
45°	2136.3	1901.7	1600.6	1368.6	1319.9	1249.5	1211.0	1196.9	1198.2	1190.5	1184.1
47.5°	1928.7	1692.9	1387.9	1150.8	1095.7	1029.0	990.6	981.6	986.8	976.5	968.8
50°	1641.6	1430.2	1152.1	935.5	886.8	838.1	807.3	798.4	797.1	789.4	784.3
52.5°	1332.8	1157.2	916.3	735.6	692.0	644.6	622.8	611.3	612.6	604.9	597.2
55°	1031.6	922.7	710.0	556.2	516.4	479.3	458.8	444.7	440.8	433.1	429.3
57.5°	767.6	694.6	531.8	401.1	378.0	342.2	321.7	305.0	302.4	298.6	297.3
60°	538.2	485.7	374.2	285.8	258.9	237.1	216.6	199.9	192.2	190.9	187.1
62.5°	348.6	316.5	246.0	190.9	170.4	155.1	134.6	123.0	117.9	112.8	114.1
65°	216.6	192.2	153.8	123.0	111.5	100.0	84.6	74.3	69.2	64.1	65.4
67.5°	134.6	120.5	97.4	79.5	71.8	62.8	51.3	43.6	39.7	35.9	33.3
70°	91.0	78.2	66.6	56.4	51.3	44.9	37.2	30.8	28.2	25.6	23.1
72.5°	64.1	57.7	48.7	42.3	38.4	33.3	28.2	24.3	21.8	19.2	16.7
75°	46.1	41.0	35.9	30.8	28.2	25.6	21.8	19.2	16.7	14.1	11.5
77.5°	33.3	29.5	25.6	23.1	21.8	17.9	15.4	14.1	12.8	10.3	7.7
80°	23.1	20.5	16.7	15.4	15.4	12.8	11.5	10.3	9.0	6.4	5.1
82.5°	15.4	14.1	12.8	11.5	10.3	9.0	9.0	6.4	5.1	3.8	2.6
85°	11.5	10.3	9.0	7.7	7.7	6.4	5.1	3.8	3.8	2.6	1.3
87.5°	6.4	6.4	5.1	3.8	3.8	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°	4877.4	4877.4	4877.4	4877.4	4877.4	4877.4	4877.4	4877.4	4877.4	4877.4	4877.4
2.5°	4921.0	4924.8	4946.6	4929.9	4972.2	5003.0	4987.6	5022.2	5010.7	5008.1	5047.8
5°	4954.3	4963.2	4992.7	4977.3	5023.5	5056.8	5041.4	5079.9	5068.3	5065.8	5106.8
7.5°	5018.4	5027.3	5053.0	5040.1	5088.8	5118.3	5099.1	5141.4	5126.0	5124.7	5164.4
10°	5099.1	5111.9	5133.7	5120.9	5165.7	5191.4	5172.1	5213.1	5199.0	5192.6	5236.2
12.5°	5159.3	5168.3	5190.1	5179.8	5223.4	5242.6	5226.0	5265.7	5247.7	5242.6	5281.1
15°	5145.2	5154.2	5172.1	5163.2	5204.2	5222.1	5200.3	5243.9	5226.0	5215.7	5250.3
17.5°	5055.5	5060.6	5073.5	5064.5	5108.1	5119.6	5095.2	5138.8	5122.2	5104.2	5137.5
20°	4923.5	4921.0	4928.6	4924.8	4960.7	4967.1	4951.7	4983.8	4964.5	4954.3	4973.5
22.5°	4759.5	4756.9	4762.1	4751.8	4787.7	4791.5	4768.5	4806.9	4787.7	4768.5	4800.5
25°	4577.5	4563.4	4560.9	4564.7	4589.0	4592.9	4568.5	4596.7	4572.4	4557.0	4587.8
27.5°	4353.3	4335.3	4331.5	4335.3	4359.7	4341.7	4321.2	4341.7	4317.4	4303.3	4322.5
30°	4076.4	4050.8	4039.3	4031.6	4057.2	4050.8	4003.4	4026.5	3988.0	3967.5	3981.6
32.5°	3703.5	3689.4	3658.7	3640.7	3665.1	3616.4	3586.9	3586.9	3571.5	3536.9	3544.6
35°	3185.8	3164.0	3135.8	3120.5	3124.3	3058.9	3010.2	3020.5	2969.2	2960.3	2964.1
37.5°	2531.0	2495.1	2484.8	2452.8	2460.5	2402.8	2336.2	2337.5	2310.5	2282.4	2273.4
40°	1901.7	1895.3	1885.1	1858.2	1868.4	1805.6	1780.0	1781.3	1763.3	1742.8	1753.1
42.5°	1469.9	1449.4	1443.0	1434.0	1436.6	1426.3	1393.0	1396.8	1381.5	1376.3	1371.2
45°	1194.4	1172.6	1157.2	1164.9	1164.9	1153.3	1140.5	1148.2	1140.5	1130.3	1135.4
47.5°	984.2	963.7	956.0	954.7	963.7	956.0	943.2	945.7	944.5	940.6	938.1
50°	785.6	780.4	774.0	770.2	774.0	771.5	759.9	766.3	770.2	757.4	761.2
52.5°	598.5	598.5	597.2	588.2	595.9	588.2	586.9	589.5	585.6	580.5	579.2
55°	438.3	434.4	428.0	426.7	429.3	426.7	424.2	425.5	428.0	415.2	415.2
57.5°	299.9	297.3	293.5	293.5	298.6	292.2	288.3	293.5	288.3	283.2	283.2
60°	192.2	190.9	187.1	187.1	187.1	185.8	182.0	183.3	185.8	178.1	179.4
62.5°	115.3	111.5	110.2	108.9	110.2	108.9	108.9	107.6	106.4	106.4	102.5
65°	62.8	60.2	57.7	58.9	58.9	57.7	57.7	57.7	55.1	53.8	52.5
67.5°	32.0	29.5	29.5	28.2	28.2	28.2	28.2	26.9	26.9	26.9	25.6
70°	20.5	19.2	17.9	17.9	17.9	16.7	16.7	16.7	16.7	16.7	15.4
72.5°	14.1	12.8	11.5	11.5	11.5	10.3	10.3	10.3	10.3	9.0	9.0
75°	10.3	9.0	7.7	7.7	7.7	6.4	6.4	6.4	6.4	6.4	6.4
77.5°	6.4	5.1	5.1	5.1	5.1	3.8	3.8	3.8	3.8	3.8	2.6
80°	3.8	3.8	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: P250889

CATALOG NUMBER: LSR8B70D010 EC8B70827 8LBSW0LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4877.4	4877.4	4877.4	4877.4	4877.4	4877.4	4877.4	4877.4
2.5°	5033.7	5023.5	5029.9	5077.3	5056.8	5050.4	4996.6	5044.0
5°	5094.0	5086.3	5086.3	5140.1	5115.7	5110.6	5058.1	5099.1
7.5°	5150.3	5142.7	5143.9	5199.0	5179.8	5172.1	5119.6	5160.6
10°	5223.4	5218.3	5219.5	5272.1	5251.6	5243.9	5190.1	5232.4
12.5°	5267.0	5259.3	5259.3	5315.7	5292.6	5281.1	5229.8	5270.8
15°	5233.6	5222.1	5222.1	5278.5	5252.9	5236.2	5191.4	5229.8
17.5°	5119.6	5108.1	5108.1	5156.8	5137.5	5113.2	5067.0	5102.9
20°	4960.7	4946.6	4942.7	4999.1	4972.2	4950.4	4909.4	4944.0
22.5°	4781.3	4774.9	4763.3	4819.7	4795.4	4772.3	4728.7	4755.6
25°	4566.0	4555.7	4544.2	4599.3	4575.0	4551.9	4517.3	4539.1
27.5°	4298.1	4299.4	4293.0	4336.6	4312.2	4299.4	4257.1	4293.0
30°	3973.9	3959.8	3954.7	4006.0	3982.9	3966.2	3913.7	3948.3
32.5°	3551.0	3530.5	3503.6	3561.3	3521.6	3507.5	3462.6	3512.6
35°	2935.9	2929.5	2905.2	2953.9	2932.1	2906.4	2878.2	2920.5
37.5°	2269.5	2274.7	2272.1	2284.9	2272.1	2255.4	2224.7	2209.3
40°	1732.6	1719.8	1709.5	1732.6	1705.7	1705.7	1687.7	1707.0
42.5°	1358.4	1353.3	1366.1	1371.2	1355.8	1353.3	1350.7	1349.4
45°	1121.3	1121.3	1123.9	1129.0	1123.9	1121.3	1113.6	1108.5
47.5°	924.0	929.1	924.0	940.6	931.6	929.1	913.7	920.1
50°	748.4	742.0	748.4	753.5	754.8	747.1	739.4	743.3
52.5°	580.5	570.3	567.7	575.4	570.3	570.3	565.1	563.9
55°	408.8	412.6	406.2	412.6	410.1	406.2	402.4	407.5
57.5°	276.8	278.1	275.5	279.4	273.0	274.2	273.0	271.7
60°	179.4	174.3	174.3	178.1	171.7	171.7	170.4	170.4
62.5°	102.5	101.2	101.2	100.0	98.7	98.7	98.7	96.1
65°	52.5	51.3	50.0	50.0	50.0	50.0	48.7	48.7
67.5°	25.6	24.3	24.3	25.6	24.3	24.3	24.3	24.3
70°	15.4	15.4	14.1	15.4	14.1	14.1	14.1	14.1
72.5°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
75°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
77.5°	3.8	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)