

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: P250888

Luminaire Tested: **LSR8B60D010 EC8B60827 8LBSW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250888  
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: LSR8B60D010 EC8B60827 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: 6185.0 lumens  
Efficiency: N/A  
Efficacy: 103.9 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

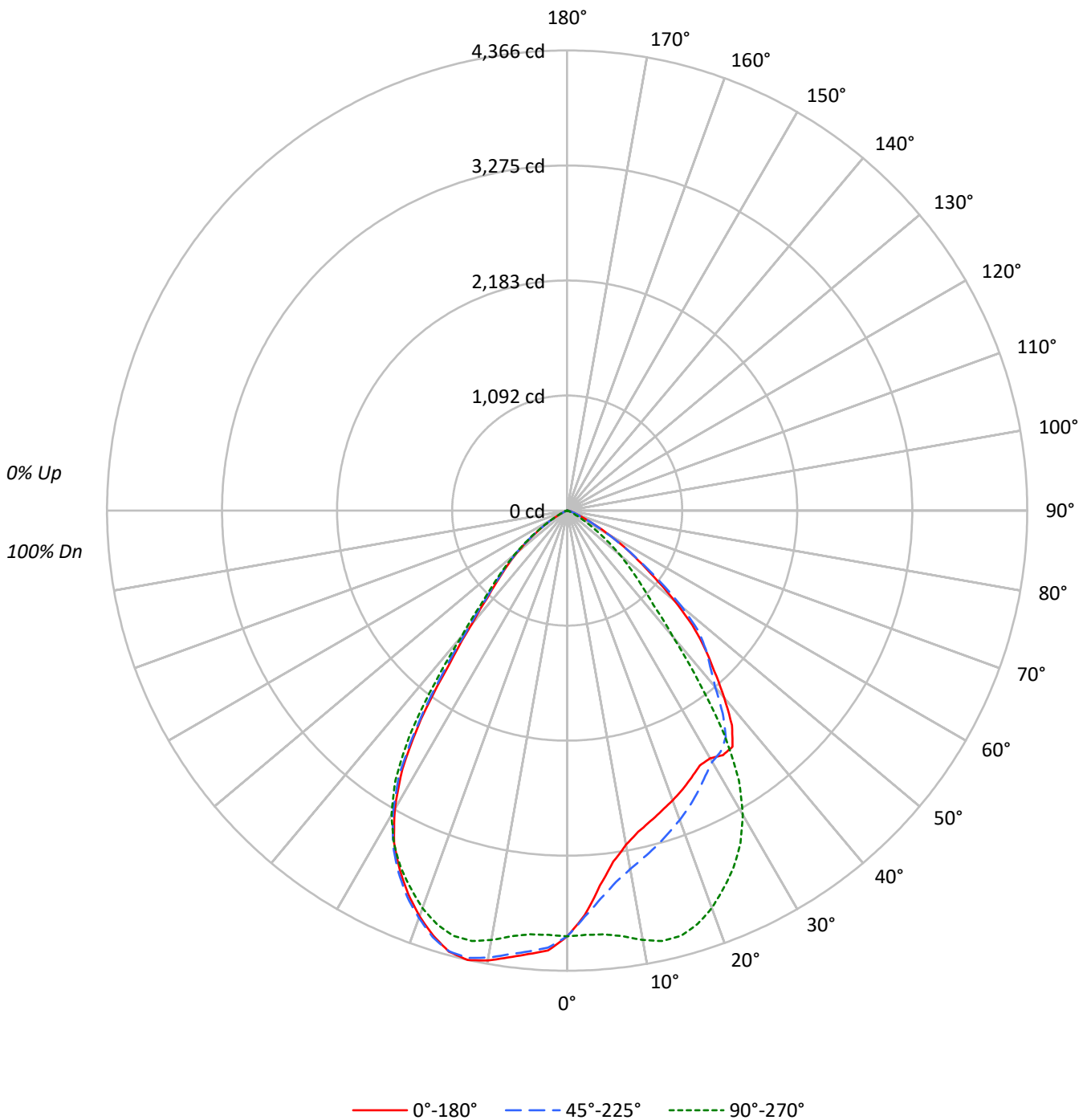
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	124594	124594	124594
5°	110546	124906	130756
10°	100787	129541	135725
15°	97404	133328	138311
20°	96011	131685	134402
25°	95070	127145	127941
30°	96619	118656	116466
35°	102987	98191	91076
40°	93333	62861	56923
45°	80555	43007	40046
50°	63559	31374	29537
55°	44117	19290	18150
60°	28086	9757	8708
65°	14024	3874	2940
70°	7754	1911	1055
75°	5564	1394	500
80°	4528	941	195
85°	4883	743	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	376.6	6.1
10°-20°	1087.7	17.6
20°-30°	1578.7	25.5
30°-40°	1554.9	25.1
40°-50°	974.7	15.8
50°-60°	470.3	7.6
60°-70°	113.8	1.8
70°-80°	23.0	0.4
80°-90°	5.3	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°	3043.0	49.2
0°-40°	4597.9	74.3
0°-60°	6042.9	97.7
0°-90°	6185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6185.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4040	4040	4040	4040	4040	
5°	3571	3692	4035	4199	4224	331
15°	3051	3291	4176	4329	4332	863
25°	2794	2940	3737	3788	3760	1293
35°	2736	2624	2608	2460	2419	1655
45°	1847	1860	986	945	918	1412
55°	821	847	359	355	338	755
65°	192	190	53	46	40	219
75°	47	40	12	5	4	52
85°	14	11	2	0	0	14
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°	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5
2.5°	3841.0	3816.5	3770.9	3826.1	3826.1	3795.3	3856.9	3819.7	3849.4	3896.2	3854.8
5°	3571.3	3551.1	3512.9	3571.3	3578.7	3550.1	3624.4	3596.8	3640.3	3697.6	3692.3
7.5°	3357.9	3332.4	3297.4	3357.9	3369.6	3350.5	3421.6	3408.9	3466.2	3540.5	3553.3
10°	3218.8	3192.3	3161.5	3216.7	3225.2	3212.5	3284.7	3277.2	3333.5	3419.5	3453.5
12.5°	3120.1	3097.8	3063.8	3122.2	3131.8	3113.7	3181.7	3178.5	3236.9	3327.1	3369.6
15°	3051.1	3024.6	2993.8	3043.7	3056.4	3036.2	3101.0	3094.6	3154.1	3243.3	3291.0
17.5°	2986.3	2961.9	2930.1	2976.8	2989.5	2968.3	3032.0	3021.4	3072.3	3157.3	3206.1
20°	2925.8	2899.3	2870.6	2918.4	2925.8	2901.4	2965.1	2951.3	2997.0	3075.5	3123.3
22.5°	2863.2	2835.6	2805.9	2852.6	2860.0	2835.6	2894.0	2878.1	2920.5	2991.7	3035.2
25°	2794.2	2768.7	2739.0	2782.5	2788.9	2762.3	2823.9	2803.7	2840.9	2903.5	2939.6
27.5°	2725.2	2700.8	2667.9	2712.4	2715.6	2690.2	2746.4	2718.8	2749.6	2806.9	2837.7
30°	2713.5	2685.9	2651.9	2688.0	2689.1	2656.2	2709.3	2676.4	2693.3	2735.8	2753.8
32.5°	2750.7	2723.1	2688.0	2717.8	2714.6	2678.5	2729.4	2689.1	2694.4	2716.7	2712.4
35°	2735.8	2702.9	2661.5	2693.3	2693.3	2649.8	2700.8	2653.0	2647.7	2650.9	2624.3
37.5°	2567.0	2541.5	2502.2	2533.0	2529.8	2496.9	2536.2	2496.9	2478.9	2471.5	2423.7
40°	2318.6	2287.8	2258.1	2291.0	2294.2	2259.1	2310.1	2265.5	2260.2	2239.0	2182.7
42.5°	2067.0	2056.4	2027.7	2055.3	2070.2	2040.4	2082.9	2061.7	2064.9	2059.5	2006.5
45°	1847.2	1829.2	1807.9	1839.8	1849.3	1834.5	1876.9	1864.2	1876.9	1903.5	1860.0
47.5°	1610.5	1592.4	1569.1	1603.0	1620.0	1592.4	1628.5	1624.3	1643.4	1689.0	1684.8
50°	1324.9	1312.2	1307.9	1312.2	1322.8	1310.0	1335.5	1336.6	1349.3	1412.0	1416.2
52.5°	1048.9	1045.7	1030.8	1044.6	1044.6	1024.5	1049.9	1038.3	1051.0	1093.5	1121.1
55°	820.6	817.4	807.9	820.6	806.8	799.4	806.8	795.2	785.6	818.5	847.2
57.5°	639.1	628.5	616.8	622.1	621.0	605.1	613.6	599.8	592.4	604.1	629.5
60°	455.4	452.3	441.6	446.9	451.2	439.5	448.0	441.6	428.9	438.5	439.5
62.5°	302.6	304.7	298.3	299.4	296.2	294.1	299.4	302.6	299.4	295.1	296.2
65°	192.2	191.1	190.0	191.1	193.2	189.0	192.2	194.3	191.1	191.1	190.0
67.5°	127.4	124.2	121.0	123.1	125.3	122.1	125.3	124.2	125.3	124.2	121.0
70°	86.0	84.9	83.9	84.9	84.9	82.8	84.9	83.9	84.9	83.9	80.7
72.5°	62.6	62.6	61.6	62.6	62.6	60.5	61.6	59.5	60.5	59.5	57.3
75°	46.7	46.7	45.6	46.7	45.6	44.6	45.6	44.6	42.5	42.5	40.3
77.5°	34.0	34.0	34.0	34.0	34.0	32.9	32.9	31.8	30.8	29.7	29.7
80°	25.5	24.4	24.4	24.4	24.4	23.4	24.4	23.4	22.3	21.2	20.2
82.5°	18.0	19.1	18.0	18.0	18.0	17.0	18.0	17.0	17.0	15.9	13.8
85°	13.8	13.8	13.8	13.8	13.8	12.7	12.7	12.7	11.7	11.7	10.6
87.5°	7.4	7.4	7.4	8.5	7.4	7.4	7.4	6.4	6.4	5.3	5.3
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5
2.5°	3910.0	3915.3	3903.6	3921.6	3991.7	3935.4	3958.8	3966.2	4019.3	4028.9	4022.5
5°	3761.3	3784.7	3799.5	3839.9	3917.4	3877.0	3918.4	3945.0	4012.9	4035.2	4040.5
7.5°	3644.5	3693.4	3729.5	3795.3	3886.6	3855.8	3918.4	3962.0	4044.8	4073.4	4087.2
10°	3557.5	3631.8	3694.4	3784.7	3887.7	3867.5	3949.2	4010.8	4103.2	4137.1	4154.1
12.5°	3491.7	3581.9	3665.8	3780.4	3891.9	3882.4	3981.1	4051.2	4148.8	4182.8	4203.0
15°	3419.5	3523.5	3621.2	3749.7	3869.6	3867.5	3973.7	4048.0	4147.8	4176.4	4195.5
17.5°	3333.5	3445.0	3552.2	3691.3	3810.2	3812.3	3919.5	3992.8	4090.4	4113.8	4126.5
20°	3246.4	3356.9	3464.1	3607.4	3724.2	3727.4	3832.5	3900.4	3993.8	4012.9	4016.1
22.5°	3154.1	3257.1	3364.3	3506.5	3619.1	3621.2	3725.2	3788.9	3868.6	3878.1	3886.6
25°	3049.0	3149.8	3250.7	3391.9	3499.1	3505.5	3600.0	3656.2	3729.5	3736.9	3740.1
27.5°	2939.6	3022.4	3119.0	3240.1	3348.4	3344.1	3433.3	3497.0	3562.8	3558.6	3557.5
30°	2829.2	2898.2	2957.7	3074.5	3154.1	3157.3	3241.1	3271.9	3340.9	3332.4	3331.4
32.5°	2751.7	2769.8	2785.7	2845.1	2920.5	2894.0	2951.3	2989.5	3037.3	3034.1	3035.2
35°	2609.5	2576.6	2528.8	2537.3	2582.9	2541.5	2572.3	2571.2	2620.1	2608.4	2622.2
37.5°	2366.4	2272.9	2166.8	2106.3	2114.8	2062.7	2052.1	2077.6	2094.6	2061.7	2073.3
40°	2107.3	1969.3	1803.7	1665.7	1658.3	1593.5	1581.8	1556.3	1589.2	1561.6	1570.1
42.5°	1916.2	1733.6	1516.0	1348.3	1312.2	1258.0	1226.2	1221.9	1231.5	1212.4	1207.1
45°	1769.7	1575.4	1326.0	1133.8	1093.5	1035.1	1003.2	991.6	992.6	986.2	980.9
47.5°	1597.7	1402.4	1149.7	953.3	907.7	852.5	820.6	813.2	817.4	809.0	802.6
50°	1359.9	1184.8	954.4	775.0	734.6	694.3	668.8	661.4	660.3	654.0	649.7
52.5°	1104.1	958.6	759.1	609.4	573.3	534.0	515.9	506.4	507.5	501.1	494.7
55°	854.6	764.4	588.1	460.7	427.8	397.0	380.1	368.4	365.2	358.8	355.6
57.5°	635.9	575.4	440.6	332.3	313.2	283.5	266.5	252.7	250.5	247.4	246.3
60°	445.9	402.4	310.0	236.7	214.4	196.4	179.4	165.6	159.2	158.2	155.0
62.5°	288.8	262.2	203.8	158.2	141.2	128.5	111.5	101.9	97.7	93.4	94.5
65°	179.4	159.2	127.4	101.9	92.4	82.8	70.1	61.6	57.3	53.1	54.1
67.5°	111.5	99.8	80.7	65.8	59.5	52.0	42.5	36.1	32.9	29.7	27.6
70°	75.4	64.8	55.2	46.7	42.5	37.2	30.8	25.5	23.4	21.2	19.1
72.5°	53.1	47.8	40.3	35.0	31.8	27.6	23.4	20.2	18.0	15.9	13.8
75°	38.2	34.0	29.7	25.5	23.4	21.2	18.0	15.9	13.8	11.7	9.6
77.5°	27.6	24.4	21.2	19.1	18.0	14.9	12.7	11.7	10.6	8.5	6.4
80°	19.1	17.0	13.8	12.7	12.7	10.6	9.6	8.5	7.4	5.3	4.2
82.5°	12.7	11.7	10.6	9.6	8.5	7.4	7.4	5.3	4.2	3.2	2.1
85°	9.6	8.5	7.4	6.4	6.4	5.3	4.2	3.2	3.2	2.1	1.1
87.5°	5.3	5.3	4.2	3.2	3.2	2.1	2.1	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°	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5
2.5°	4076.6	4079.8	4097.9	4084.1	4119.1	4144.6	4131.8	4160.5	4150.9	4148.8	4181.7
5°	4104.2	4111.7	4136.1	4123.3	4161.6	4189.2	4176.4	4208.3	4198.7	4196.6	4230.6
7.5°	4157.3	4164.7	4186.0	4175.4	4215.7	4240.1	4224.2	4259.2	4246.5	4245.4	4278.3
10°	4224.2	4234.8	4252.9	4242.2	4279.4	4300.6	4284.7	4318.7	4307.0	4301.7	4337.8
12.5°	4274.1	4281.5	4299.6	4291.1	4327.2	4343.1	4329.3	4362.2	4347.3	4343.1	4374.9
15°	4262.4	4269.8	4284.7	4277.3	4311.2	4326.1	4308.1	4344.2	4329.3	4320.8	4349.5
17.5°	4188.1	4192.3	4203.0	4195.5	4231.6	4241.2	4221.0	4257.1	4243.3	4228.4	4256.0
20°	4078.8	4076.6	4083.0	4079.8	4109.5	4114.8	4102.1	4128.6	4112.7	4104.2	4120.2
22.5°	3942.9	3940.7	3945.0	3936.5	3966.2	3969.4	3950.3	3982.1	3966.2	3950.3	3976.8
25°	3792.1	3780.4	3778.3	3781.5	3801.7	3804.9	3784.7	3808.0	3787.9	3775.1	3800.6
27.5°	3606.3	3591.5	3588.3	3591.5	3611.6	3596.8	3579.8	3596.8	3576.6	3564.9	3580.9
30°	3377.0	3355.8	3346.2	3339.9	3361.1	3355.8	3316.5	3335.6	3303.8	3286.8	3298.5
32.5°	3068.1	3056.4	3030.9	3016.1	3036.2	2995.9	2971.5	2971.5	2958.7	2930.1	2936.4
35°	2639.2	2621.1	2597.8	2585.1	2588.2	2534.1	2493.8	2502.2	2459.8	2452.3	2455.5
37.5°	2096.7	2067.0	2058.5	2031.9	2038.3	1990.5	1935.3	1936.4	1914.1	1890.7	1883.3
40°	1575.4	1570.1	1561.6	1539.4	1547.8	1495.8	1474.6	1475.7	1460.8	1443.8	1452.3
42.5°	1217.7	1200.7	1195.4	1188.0	1190.1	1181.6	1154.0	1157.2	1144.4	1140.2	1135.9
45°	989.4	971.4	958.6	965.0	965.0	955.5	944.8	951.2	944.8	936.4	940.6
47.5°	815.3	798.3	792.0	790.9	798.3	792.0	781.4	783.5	782.4	779.2	777.1
50°	650.8	646.5	641.2	638.0	641.2	639.1	629.5	634.9	638.0	627.4	630.6
52.5°	495.8	495.8	494.7	487.3	493.7	487.3	486.2	488.3	485.2	480.9	479.9
55°	363.1	359.9	354.6	353.5	355.6	353.5	351.4	352.5	354.6	344.0	344.0
57.5°	248.4	246.3	243.1	243.1	247.4	242.0	238.9	243.1	238.9	234.6	234.6
60°	159.2	158.2	155.0	155.0	155.0	153.9	150.8	151.8	153.9	147.6	148.6
62.5°	95.5	92.4	91.3	90.2	91.3	90.2	90.2	89.2	88.1	88.1	84.9
65°	52.0	49.9	47.8	48.8	48.8	47.8	47.8	47.8	45.6	44.6	43.5
67.5°	26.5	24.4	24.4	23.4	23.4	23.4	23.4	22.3	22.3	22.3	21.2
70°	17.0	15.9	14.9	14.9	14.9	13.8	13.8	13.8	13.8	13.8	12.7
72.5°	11.7	10.6	9.6	9.6	9.6	8.5	8.5	8.5	8.5	7.4	7.4
75°	8.5	7.4	6.4	6.4	6.4	5.3	5.3	5.3	5.3	5.3	5.3
77.5°	5.3	4.2	4.2	4.2	4.2	3.2	3.2	3.2	3.2	3.2	2.1
80°	3.2	3.2	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	1.1
82.5°	2.1	2.1	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: P250888

CATALOG NUMBER: LSR8B60D010 EC8B60827 8LBSW0LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5
2.5°	4170.1	4161.6	4166.9	4206.1	4189.2	4183.9	4139.3	4178.5
5°	4219.9	4213.6	4213.6	4258.2	4238.0	4233.8	4190.2	4224.2
7.5°	4266.7	4260.3	4261.4	4307.0	4291.1	4284.7	4241.2	4275.2
10°	4327.2	4322.9	4324.0	4367.5	4350.5	4344.2	4299.6	4334.6
12.5°	4363.3	4356.9	4356.9	4403.6	4384.5	4374.9	4332.5	4366.5
15°	4335.7	4326.1	4326.1	4372.8	4351.6	4337.8	4300.6	4332.5
17.5°	4241.2	4231.6	4231.6	4272.0	4256.0	4235.9	4197.7	4227.4
20°	4109.5	4097.9	4094.7	4141.4	4119.1	4101.0	4067.1	4095.7
22.5°	3960.9	3955.6	3946.1	3992.8	3972.6	3953.5	3917.4	3939.7
25°	3782.6	3774.1	3764.5	3810.2	3790.0	3770.9	3742.2	3760.3
27.5°	3560.7	3561.7	3556.4	3592.5	3572.4	3561.7	3526.7	3556.4
30°	3292.1	3280.4	3276.2	3318.6	3299.5	3285.7	3242.2	3270.9
32.5°	2941.8	2924.8	2902.5	2950.2	2917.3	2905.7	2868.5	2909.9
35°	2432.2	2426.9	2406.7	2447.0	2429.0	2407.8	2384.4	2419.4
37.5°	1880.1	1884.4	1882.3	1892.9	1882.3	1868.5	1843.0	1830.2
40°	1435.3	1424.7	1416.2	1435.3	1413.0	1413.0	1398.2	1414.1
42.5°	1125.3	1121.1	1131.7	1135.9	1123.2	1121.1	1119.0	1117.9
45°	928.9	928.9	931.0	935.3	931.0	928.9	922.5	918.3
47.5°	765.4	769.7	765.4	779.2	771.8	769.7	756.9	762.2
50°	620.0	614.7	620.0	624.2	625.3	618.9	612.6	615.7
52.5°	480.9	472.4	470.3	476.7	472.4	472.4	468.2	467.1
55°	338.7	341.8	336.5	341.8	339.7	336.5	333.3	337.6
57.5°	229.3	230.4	228.2	231.4	226.1	227.2	226.1	225.1
60°	148.6	144.4	144.4	147.6	142.3	142.3	141.2	141.2
62.5°	84.9	83.9	83.9	82.8	81.7	81.7	81.7	79.6
65°	43.5	42.5	41.4	41.4	41.4	41.4	40.3	40.3
67.5°	21.2	20.2	20.2	21.2	20.2	20.2	20.2	20.2
70°	12.7	12.7	11.7	12.7	11.7	11.7	11.7	11.7
72.5°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
75°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
77.5°	3.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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)