

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: P250890

Luminaire Tested: **LSR8B60D010 EC8B60830 8LBSWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250890
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 EC8B60830 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6340.0 lumens
Efficiency: N/A
Efficacy: 106.6 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

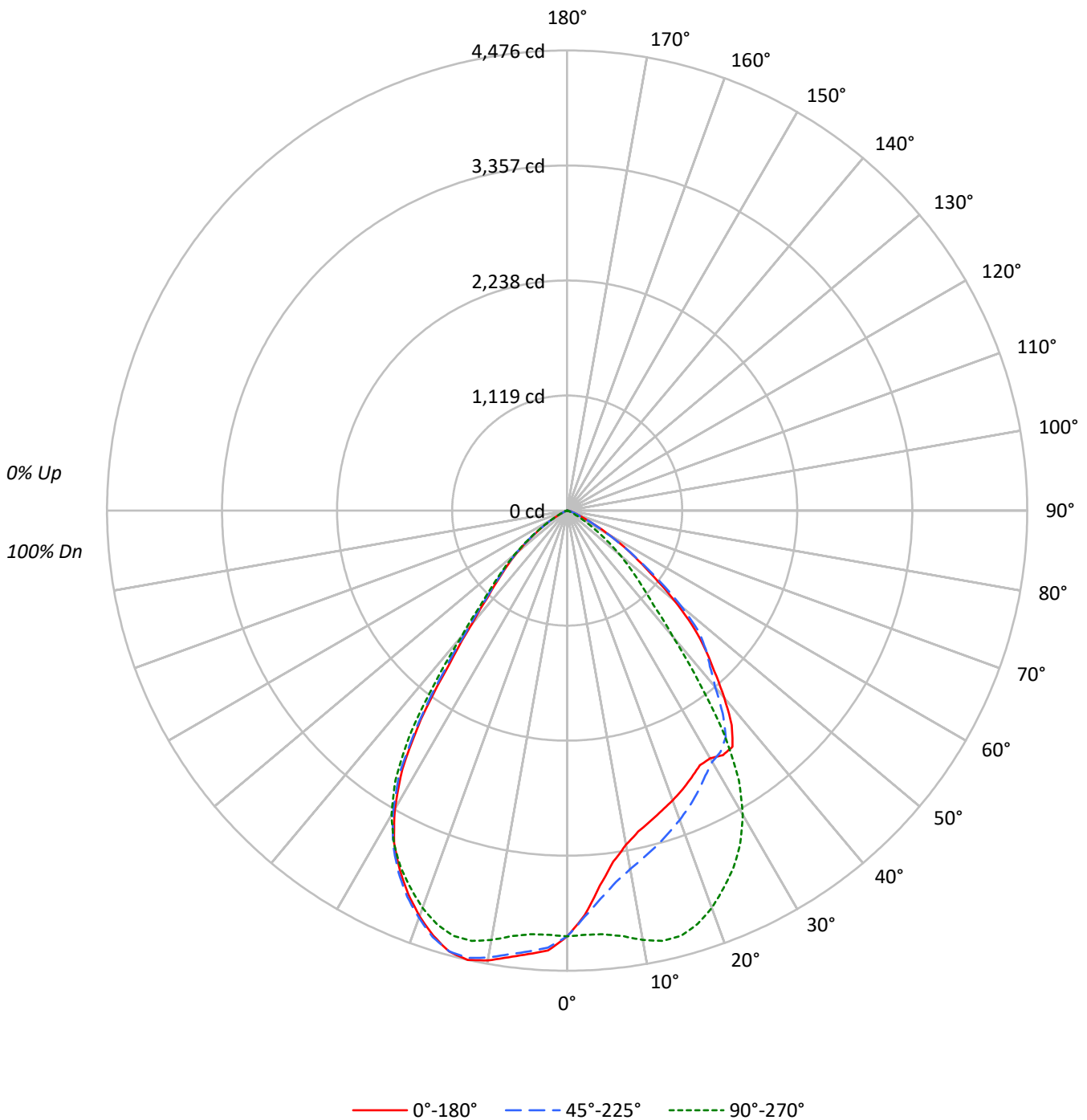
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	127718	127718	127718
5°	113317	128039	134034
10°	103314	132788	139126
15°	99846	136670	141778
20°	98420	134986	137772
25°	97452	130333	131146
30°	99040	121629	119382
35°	105569	100653	93361
40°	95672	64439	58348
45°	82574	44089	41049
50°	65152	32156	30280
55°	45224	19773	18607
60°	28789	9997	8924
65°	14374	3969	3021
70°	7943	1965	1082
75°	5707	1430	524
80°	4635	959	195
85°	4989	778	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.0	6.1
10°-20°	1115.0	17.6
20°-30°	1618.3	25.5
30°-40°	1593.8	25.1
40°-50°	999.1	15.8
50°-60°	482.1	7.6
60°-70°	116.7	1.8
70°-80°	23.6	0.4
80°-90°	5.4	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°	3119.3	49.2
0°-40°	4713.1	74.3
0°-60°	6194.3	97.7
0°-90°	6340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6340.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4142	4142	4142	4142	4142	
5°	3661	3785	4136	4304	4330	339
15°	3128	3374	4281	4438	4441	884
25°	2864	3013	3831	3883	3854	1325
35°	2804	2690	2674	2521	2480	1697
45°	1894	1907	1011	968	941	1448
55°	841	868	368	364	346	774
65°	197	195	54	47	41	225
75°	48	41	12	5	4	54
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°	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8
2.5°	3937.2	3912.2	3865.4	3922.0	3922.0	3890.4	3953.5	3915.4	3945.9	3993.8	3951.4
5°	3660.8	3640.1	3600.9	3660.8	3668.4	3639.0	3715.2	3686.9	3731.5	3790.3	3784.9
7.5°	3442.1	3415.9	3380.0	3442.1	3454.0	3434.4	3507.4	3494.3	3553.1	3629.2	3642.3
10°	3299.5	3272.3	3240.7	3297.3	3306.0	3293.0	3367.0	3359.4	3417.0	3505.2	3540.0
12.5°	3198.3	3175.4	3140.6	3200.5	3210.3	3191.8	3261.4	3258.2	3318.0	3410.5	3454.0
15°	3127.6	3100.4	3068.8	3119.9	3133.0	3112.3	3178.7	3172.2	3233.1	3324.5	3373.5
17.5°	3061.2	3036.2	3003.5	3051.4	3064.4	3042.7	3108.0	3097.1	3149.3	3236.4	3286.4
20°	2999.2	2971.9	2942.6	2991.5	2999.2	2974.1	3039.4	3025.3	3072.1	3152.6	3201.6
22.5°	2934.9	2906.7	2876.2	2924.1	2931.7	2906.7	2966.5	2950.2	2993.7	3066.6	3111.2
25°	2864.2	2838.1	2807.6	2852.2	2858.8	2831.6	2894.7	2874.0	2912.1	2976.3	3013.3
27.5°	2793.5	2768.5	2734.7	2780.4	2783.7	2757.6	2815.2	2787.0	2818.5	2877.3	2908.8
30°	2781.5	2753.2	2718.4	2755.4	2756.5	2722.7	2777.2	2743.4	2760.8	2804.4	2822.9
32.5°	2819.6	2791.3	2755.4	2785.9	2782.6	2745.6	2797.8	2756.5	2761.9	2784.8	2780.4
35°	2804.4	2770.6	2728.2	2760.8	2760.8	2716.2	2768.5	2719.5	2714.0	2717.3	2690.1
37.5°	2631.3	2605.2	2565.0	2596.5	2593.2	2559.5	2599.8	2559.5	2541.0	2533.4	2484.4
40°	2376.7	2345.1	2314.7	2348.4	2351.7	2315.7	2368.0	2322.3	2316.8	2295.1	2237.4
42.5°	2118.8	2107.9	2078.5	2106.8	2122.0	2091.6	2135.1	2113.3	2116.6	2111.2	2056.7
45°	1893.5	1875.0	1853.3	1885.9	1895.7	1880.5	1924.0	1910.9	1924.0	1951.2	1906.6
47.5°	1650.8	1632.3	1608.4	1643.2	1660.6	1632.3	1669.3	1665.0	1684.6	1731.4	1727.0
50°	1358.1	1345.0	1340.7	1345.0	1355.9	1342.9	1369.0	1370.1	1383.1	1447.3	1451.7
52.5°	1075.2	1071.9	1056.7	1070.8	1070.8	1050.1	1076.3	1064.3	1077.3	1120.9	1149.2
55°	841.2	837.9	828.1	841.2	827.1	819.4	827.1	815.1	805.3	839.0	868.4
57.5°	655.1	644.2	632.3	637.7	636.6	620.3	629.0	614.8	607.2	619.2	645.3
60°	466.8	463.6	452.7	458.1	462.5	450.5	459.2	452.7	439.6	449.4	450.5
62.5°	310.1	312.3	305.8	306.9	303.6	301.4	306.9	310.1	306.9	302.5	303.6
65°	197.0	195.9	194.8	195.9	198.1	193.7	197.0	199.1	195.9	195.9	194.8
67.5°	130.6	127.3	124.1	126.2	128.4	125.1	128.4	127.3	128.4	127.3	124.1
70°	88.1	87.1	86.0	87.1	87.1	84.9	87.1	86.0	87.1	86.0	82.7
72.5°	64.2	64.2	63.1	64.2	64.2	62.0	63.1	60.9	62.0	60.9	58.8
75°	47.9	47.9	46.8	47.9	46.8	45.7	46.8	45.7	43.5	43.5	41.4
77.5°	34.8	34.8	34.8	34.8	34.8	33.7	33.7	32.6	31.6	30.5	30.5
80°	26.1	25.0	25.0	25.0	25.0	23.9	25.0	23.9	22.9	21.8	20.7
82.5°	18.5	19.6	18.5	18.5	18.5	17.4	18.5	17.4	17.4	16.3	14.1
85°	14.1	14.1	14.1	14.1	14.1	13.1	13.1	13.1	12.0	12.0	10.9
87.5°	7.6	7.6	7.6	8.7	7.6	7.6	7.6	6.5	6.5	5.4	5.4
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°	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8
2.5°	4007.9	4013.4	4001.4	4019.9	4091.7	4034.1	4058.0	4065.6	4120.0	4129.8	4123.3
5°	3855.6	3879.5	3894.8	3936.1	4015.6	3974.2	4016.6	4043.9	4113.5	4136.4	4141.8
7.5°	3735.9	3785.9	3822.9	3890.4	3984.0	3952.4	4016.6	4061.3	4146.1	4175.5	4189.7
10°	3646.6	3722.8	3787.0	3879.5	3985.1	3964.4	4048.2	4111.3	4206.0	4240.8	4258.2
12.5°	3579.2	3671.7	3757.6	3875.2	3989.4	3979.6	4080.9	4152.7	4252.8	4287.6	4308.3
15°	3505.2	3611.8	3711.9	3843.6	3966.6	3964.4	4073.2	4149.4	4251.7	4281.1	4300.7
17.5°	3417.0	3531.3	3641.2	3783.8	3905.6	3907.8	4017.7	4092.8	4192.9	4216.9	4229.9
20°	3327.8	3441.0	3550.9	3697.8	3817.5	3820.8	3928.5	3998.1	4093.9	4113.5	4116.8
22.5°	3233.1	3338.7	3448.6	3594.4	3709.8	3711.9	3818.6	3883.9	3965.5	3975.3	3984.0
25°	3125.4	3228.8	3332.2	3476.9	3586.8	3593.3	3690.2	3747.9	3822.9	3830.6	3833.8
27.5°	3013.3	3098.2	3197.2	3321.3	3432.3	3427.9	3519.3	3584.6	3652.1	3647.7	3646.6
30°	2900.1	2970.9	3031.8	3151.5	3233.1	3236.4	3322.4	3353.9	3424.7	3415.9	3414.9
32.5°	2820.7	2839.2	2855.5	2916.4	2993.7	2966.5	3025.3	3064.4	3113.4	3110.2	3111.2
35°	2674.9	2641.1	2592.2	2600.9	2647.7	2605.2	2636.8	2635.7	2685.7	2673.8	2687.9
37.5°	2425.7	2329.9	2221.1	2159.0	2167.7	2114.4	2103.5	2129.7	2147.1	2113.3	2125.3
40°	2160.1	2018.7	1848.9	1707.4	1699.8	1633.4	1621.5	1595.3	1629.1	1600.8	1609.5
42.5°	1964.3	1777.1	1554.0	1382.0	1345.0	1289.5	1256.9	1252.5	1262.3	1242.8	1237.3
45°	1814.1	1614.9	1359.2	1162.2	1120.9	1061.0	1028.4	1016.4	1017.5	1011.0	1005.5
47.5°	1637.8	1437.5	1178.6	977.2	930.4	873.8	841.2	833.6	837.9	829.2	822.7
50°	1394.0	1214.5	978.3	794.4	753.1	711.7	685.6	678.0	676.9	670.3	666.0
52.5°	1131.8	982.7	778.1	624.6	587.6	547.4	528.9	519.1	520.2	513.6	507.1
55°	876.0	783.5	602.9	472.3	438.6	407.0	389.6	377.6	374.4	367.8	364.6
57.5°	651.8	589.8	451.6	340.6	321.0	290.6	273.1	259.0	256.8	253.6	252.5
60°	457.1	412.4	317.8	242.7	219.8	201.3	183.9	169.8	163.2	162.1	158.9
62.5°	296.0	268.8	208.9	162.1	144.7	131.7	114.3	104.5	100.1	95.8	96.9
65°	183.9	163.2	130.6	104.5	94.7	84.9	71.8	63.1	58.8	54.4	55.5
67.5°	114.3	102.3	82.7	67.5	60.9	53.3	43.5	37.0	33.7	30.5	28.3
70°	77.3	66.4	56.6	47.9	43.5	38.1	31.6	26.1	23.9	21.8	19.6
72.5°	54.4	49.0	41.4	35.9	32.6	28.3	23.9	20.7	18.5	16.3	14.1
75°	39.2	34.8	30.5	26.1	23.9	21.8	18.5	16.3	14.1	12.0	9.8
77.5°	28.3	25.0	21.8	19.6	18.5	15.2	13.1	12.0	10.9	8.7	6.5
80°	19.6	17.4	14.1	13.1	13.1	10.9	9.8	8.7	7.6	5.4	4.4
82.5°	13.1	12.0	10.9	9.8	8.7	7.6	7.6	5.4	4.4	3.3	2.2
85°	9.8	8.7	7.6	6.5	6.5	5.4	4.4	3.3	3.3	2.2	1.1
87.5°	5.4	5.4	4.4	3.3	3.3	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°	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8
2.5°	4178.8	4182.1	4200.6	4186.4	4222.3	4248.4	4235.4	4264.8	4255.0	4252.8	4286.5
5°	4207.1	4214.7	4239.7	4226.7	4265.9	4294.1	4281.1	4313.7	4303.9	4301.8	4336.6
7.5°	4261.5	4269.1	4290.9	4280.0	4321.4	4346.4	4330.1	4366.0	4352.9	4351.8	4385.6
10°	4330.1	4340.9	4359.4	4348.6	4386.6	4408.4	4392.1	4426.9	4414.9	4409.5	4446.5
12.5°	4381.2	4388.8	4407.3	4398.6	4435.6	4451.9	4437.8	4471.5	4456.3	4451.9	4484.6
15°	4369.2	4376.9	4392.1	4384.5	4419.3	4434.5	4416.0	4453.0	4437.8	4429.1	4458.5
17.5°	4293.1	4297.4	4308.3	4300.7	4337.7	4347.5	4326.8	4363.8	4349.6	4334.4	4362.7
20°	4181.0	4178.8	4185.3	4182.1	4212.5	4218.0	4204.9	4232.1	4215.8	4207.1	4223.4
22.5°	4041.7	4039.5	4043.9	4035.1	4065.6	4068.9	4049.3	4081.9	4065.6	4049.3	4076.5
25°	3887.1	3875.2	3873.0	3876.3	3896.9	3900.2	3879.5	3903.5	3882.8	3869.7	3895.9
27.5°	3696.7	3681.5	3678.2	3681.5	3702.1	3686.9	3669.5	3686.9	3666.2	3654.3	3670.6
30°	3461.7	3439.9	3430.1	3423.6	3445.3	3439.9	3399.6	3419.2	3386.6	3369.2	3381.1
32.5°	3145.0	3133.0	3106.9	3091.7	3112.3	3071.0	3045.9	3045.9	3032.9	3003.5	3010.0
35°	2705.3	2686.8	2662.9	2649.8	2653.1	2597.6	2556.2	2565.0	2521.4	2513.8	2517.1
37.5°	2149.2	2118.8	2110.1	2082.9	2089.4	2040.4	1983.8	1984.9	1962.1	1938.1	1930.5
40°	1614.9	1609.5	1600.8	1577.9	1586.6	1533.3	1511.5	1512.6	1497.4	1480.0	1488.7
42.5°	1248.2	1230.8	1225.3	1217.7	1219.9	1211.2	1182.9	1186.2	1173.1	1168.8	1164.4
45°	1014.2	995.7	982.7	989.2	989.2	979.4	968.5	975.1	968.5	959.8	964.2
47.5°	835.8	818.3	811.8	810.7	818.3	811.8	800.9	803.1	802.0	798.8	796.6
50°	667.1	662.7	657.3	654.0	657.3	655.1	645.3	650.8	654.0	643.1	646.4
52.5°	508.2	508.2	507.1	499.5	506.0	499.5	498.4	500.6	497.3	493.0	491.9
55°	372.2	368.9	363.5	362.4	364.6	362.4	360.2	361.3	363.5	352.6	352.6
57.5°	254.6	252.5	249.2	249.2	253.6	248.1	244.9	249.2	244.9	240.5	240.5
60°	163.2	162.1	158.9	158.9	158.9	157.8	154.5	155.6	157.8	151.3	152.4
62.5°	97.9	94.7	93.6	92.5	93.6	92.5	92.5	91.4	90.3	90.3	87.1
65°	53.3	51.1	49.0	50.1	50.1	49.0	49.0	49.0	46.8	45.7	44.6
67.5°	27.2	25.0	25.0	23.9	23.9	23.9	23.9	22.9	22.9	22.9	21.8
70°	17.4	16.3	15.2	15.2	15.2	14.1	14.1	14.1	14.1	14.1	13.1
72.5°	12.0	10.9	9.8	9.8	9.8	8.7	8.7	8.7	8.7	7.6	7.6
75°	8.7	7.6	6.5	6.5	6.5	5.4	5.4	5.4	5.4	5.4	5.4
77.5°	5.4	4.4	4.4	4.4	4.4	3.3	3.3	3.3	3.3	3.3	2.2
80°	3.3	3.3	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: P250890

CATALOG NUMBER: LSR8B60D010 EC8B60830 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8
2.5°	4274.6	4265.9	4271.3	4311.6	4294.1	4288.7	4243.0	4283.3
5°	4325.7	4319.2	4319.2	4364.9	4344.2	4339.9	4295.2	4330.1
7.5°	4373.6	4367.1	4368.1	4414.9	4398.6	4392.1	4347.5	4382.3
10°	4435.6	4431.3	4432.4	4477.0	4459.6	4453.0	4407.3	4443.2
12.5°	4472.6	4466.1	4466.1	4514.0	4494.4	4484.6	4441.1	4475.9
15°	4444.3	4434.5	4434.5	4482.4	4460.6	4446.5	4408.4	4441.1
17.5°	4347.5	4337.7	4337.7	4379.0	4362.7	4342.0	4302.9	4333.3
20°	4212.5	4200.6	4197.3	4245.2	4222.3	4203.8	4169.0	4198.4
22.5°	4060.2	4054.7	4044.9	4092.8	4072.1	4052.6	4015.6	4038.4
25°	3877.4	3868.6	3858.9	3905.6	3885.0	3865.4	3836.0	3854.5
27.5°	3649.9	3651.0	3645.6	3682.6	3661.9	3651.0	3615.1	3645.6
30°	3374.6	3362.6	3358.3	3401.8	3382.2	3368.1	3323.4	3352.8
32.5°	3015.5	2998.1	2975.2	3024.2	2990.4	2978.5	2940.4	2982.8
35°	2493.1	2487.7	2467.0	2508.4	2489.9	2468.1	2444.2	2480.1
37.5°	1927.3	1931.6	1929.4	1940.3	1929.4	1915.3	1889.2	1876.1
40°	1471.3	1460.4	1451.7	1471.3	1448.4	1448.4	1433.2	1449.5
42.5°	1153.5	1149.2	1160.1	1164.4	1151.3	1149.2	1147.0	1145.9
45°	952.2	952.2	954.4	958.7	954.4	952.2	945.7	941.3
47.5°	784.6	789.0	784.6	798.8	791.1	789.0	775.9	781.3
50°	635.5	630.1	635.5	639.9	641.0	634.4	627.9	631.2
52.5°	493.0	484.3	482.1	488.6	484.3	484.3	479.9	478.8
55°	347.1	350.4	345.0	350.4	348.2	345.0	341.7	346.1
57.5°	235.1	236.1	234.0	237.2	231.8	232.9	231.8	230.7
60°	152.4	148.0	148.0	151.3	145.8	145.8	144.7	144.7
62.5°	87.1	86.0	86.0	84.9	83.8	83.8	83.8	81.6
65°	44.6	43.5	42.4	42.4	42.4	42.4	41.4	41.4
67.5°	21.8	20.7	20.7	21.8	20.7	20.7	20.7	20.7
70°	13.1	13.1	12.0	13.1	12.0	12.0	12.0	12.0
72.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
75°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
77.5°	3.3	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)