

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: P250902

Luminaire Tested: **LSR8B60D010 EC8B60935 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250902
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 EC8B60935 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5622.0 lumens
Efficiency: N/A
Efficacy: 94.5 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

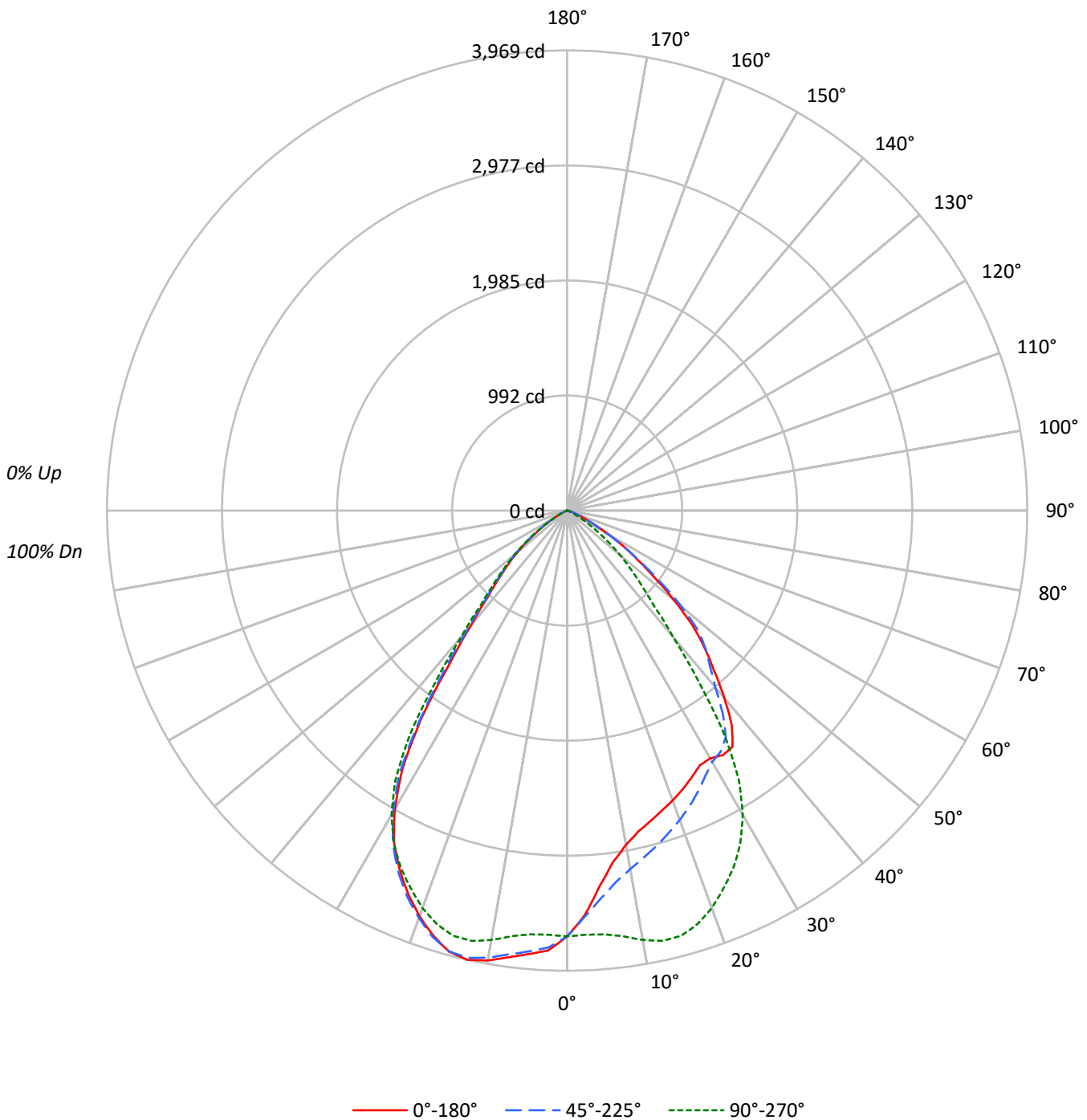
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	113253	113253	113253
5°	100483	113537	118854
10°	91613	117752	123369
15°	88538	121193	125720
20°	87272	119697	122168
25°	86414	115573	116294
30°	87824	107856	105862
35°	93614	89254	82787
40°	84835	57140	51742
45°	73224	39096	36401
50°	57774	28515	26850
55°	40101	17537	16499
60°	25532	8869	7913
65°	12747	3517	2678
70°	7050	1740	956
75°	5064	1263	465
80°	4120	852	178
85°	4423	672	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.3	6.1
10°-20°	988.7	17.6
20°-30°	1435.0	25.5
30°-40°	1413.3	25.1
40°-50°	886.0	15.8
50°-60°	427.5	7.6
60°-70°	103.5	1.8
70°-80°	20.9	0.4
80°-90°	4.8	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°	2766.0	49.2
0°-40°	4179.4	74.3
0°-60°	5492.8	97.7
0°-90°	5622.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5622.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3673	3673	3673	3673	3673	
5°	3246	3356	3668	3816	3840	300
15°	2773	2992	3796	3935	3938	784
25°	2540	2672	3397	3443	3418	1175
35°	2487	2385	2371	2236	2199	1505
45°	1679	1691	896	859	835	1284
55°	746	770	326	322	307	686
65°	175	173	48	42	37	199
75°	42	37	11	5	4	48
85°	12	10	2	0	0	13
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°	3672.7	3672.7	3672.7	3672.7	3672.7	3672.7	3672.7	3672.7	3672.7	3672.7	3672.7
2.5°	3491.3	3469.1	3427.6	3477.8	3477.8	3449.8	3505.8	3472.0	3499.0	3541.5	3503.9
5°	3246.2	3227.9	3193.1	3246.2	3253.0	3226.9	3294.5	3269.4	3308.9	3361.0	3356.2
7.5°	3052.3	3029.1	2997.2	3052.3	3062.9	3045.5	3110.2	3098.6	3150.7	3218.2	3229.8
10°	2925.8	2901.7	2873.7	2923.9	2931.6	2920.0	2985.7	2978.9	3030.1	3108.2	3139.1
12.5°	2836.1	2815.8	2785.0	2838.0	2846.7	2830.3	2892.1	2889.2	2942.2	3024.3	3062.9
15°	2773.4	2749.2	2721.3	2766.6	2778.2	2759.9	2818.7	2812.9	2867.0	2948.0	2991.5
17.5°	2714.5	2692.3	2663.4	2705.8	2717.4	2698.1	2756.0	2746.4	2792.7	2869.9	2914.3
20°	2659.5	2635.4	2609.3	2652.7	2659.5	2637.3	2695.2	2682.7	2724.2	2795.6	2839.0
22.5°	2602.6	2577.5	2550.5	2592.9	2599.7	2577.5	2630.6	2616.1	2654.7	2719.3	2758.9
25°	2539.8	2516.7	2489.7	2529.2	2535.0	2510.9	2566.9	2548.5	2582.3	2639.2	2672.0
27.5°	2477.1	2454.9	2425.0	2465.5	2468.4	2445.3	2496.4	2471.3	2499.3	2551.4	2579.4
30°	2466.5	2441.4	2410.5	2443.3	2444.3	2414.4	2462.6	2432.7	2448.2	2486.8	2503.2
32.5°	2500.3	2475.2	2443.3	2470.4	2467.5	2434.7	2481.0	2444.3	2449.1	2469.4	2465.5
35°	2486.8	2456.9	2419.2	2448.2	2448.2	2408.6	2454.9	2411.5	2406.7	2409.6	2385.4
37.5°	2333.3	2310.2	2274.5	2302.5	2299.6	2269.6	2305.4	2269.6	2253.2	2246.5	2203.1
40°	2107.5	2079.5	2052.5	2082.4	2085.3	2053.5	2099.8	2059.3	2054.5	2035.2	1984.0
42.5°	1878.8	1869.2	1843.1	1868.2	1881.7	1854.7	1893.3	1874.0	1876.9	1872.1	1823.8
45°	1679.1	1662.7	1643.4	1672.3	1681.0	1667.5	1706.1	1694.5	1706.1	1730.2	1690.7
47.5°	1463.9	1447.5	1426.3	1457.1	1472.6	1447.5	1480.3	1476.4	1493.8	1535.3	1531.4
50°	1204.3	1192.7	1188.9	1192.7	1202.4	1190.8	1214.0	1214.9	1226.5	1283.4	1287.3
52.5°	953.4	950.5	937.0	949.5	949.5	931.2	954.4	943.8	955.3	993.9	1019.0
55°	745.9	743.0	734.4	745.9	733.4	726.6	733.4	722.8	714.1	744.0	770.1
57.5°	580.9	571.3	560.7	565.5	564.5	550.0	557.8	545.2	538.5	549.1	572.2
60°	414.0	411.1	401.4	406.3	410.1	399.5	407.2	401.4	389.9	398.5	399.5
62.5°	275.0	277.0	271.2	272.1	269.2	267.3	272.1	275.0	272.1	268.3	269.2
65°	174.7	173.7	172.7	173.7	175.6	171.8	174.7	176.6	173.7	173.7	172.7
67.5°	115.8	112.9	110.0	111.9	113.9	111.0	113.9	112.9	113.9	112.9	110.0
70°	78.2	77.2	76.2	77.2	77.2	75.3	77.2	76.2	77.2	76.2	73.3
72.5°	56.9	56.9	56.0	56.9	56.9	55.0	56.0	54.0	55.0	54.0	52.1
75°	42.5	42.5	41.5	42.5	41.5	40.5	41.5	40.5	38.6	38.6	36.7
77.5°	30.9	30.9	30.9	30.9	30.9	29.9	29.9	28.9	28.0	27.0	27.0
80°	23.2	22.2	22.2	22.2	22.2	21.2	22.2	21.2	20.3	19.3	18.3
82.5°	16.4	17.4	16.4	16.4	16.4	15.4	16.4	15.4	15.4	14.5	12.5
85°	12.5	12.5	12.5	12.5	12.5	11.6	11.6	11.6	10.6	10.6	9.6
87.5°	6.8	6.8	6.8	7.7	6.8	6.8	6.8	5.8	5.8	4.8	4.8
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°	3672.7	3672.7	3672.7	3672.7	3672.7	3672.7	3672.7	3672.7	3672.7	3672.7	3672.7
2.5°	3554.0	3558.9	3548.3	3564.7	3628.3	3577.2	3598.4	3605.2	3653.4	3662.1	3656.3
5°	3418.9	3440.2	3453.7	3490.4	3560.8	3524.1	3561.8	3585.9	3647.6	3667.9	3672.7
7.5°	3312.8	3357.2	3390.0	3449.8	3532.8	3504.8	3561.8	3601.3	3676.6	3702.7	3715.2
10°	3233.7	3301.2	3358.2	3440.2	3533.8	3515.4	3589.7	3645.7	3729.7	3760.6	3776.0
12.5°	3173.8	3255.9	3332.1	3436.3	3537.6	3529.0	3618.7	3682.4	3771.2	3802.0	3820.4
15°	3108.2	3202.8	3291.6	3408.3	3517.4	3515.4	3611.9	3679.5	3770.2	3796.3	3813.6
17.5°	3030.1	3131.4	3228.8	3355.3	3463.3	3465.3	3562.7	3629.3	3718.1	3739.3	3750.9
20°	2950.9	3051.3	3148.8	3279.0	3385.2	3388.1	3483.6	3545.4	3630.3	3647.6	3650.5
22.5°	2867.0	2960.6	3058.0	3187.4	3289.6	3291.6	3386.1	3444.0	3516.4	3525.1	3532.8
25°	2771.4	2863.1	2954.8	3083.1	3180.6	3186.4	3272.3	3323.4	3390.0	3396.8	3399.6
27.5°	2672.0	2747.3	2835.1	2945.1	3043.6	3039.7	3120.8	3178.7	3238.5	3234.6	3233.7
30°	2571.7	2634.4	2688.5	2794.6	2867.0	2869.9	2946.1	2974.1	3036.8	3029.1	3028.1
32.5°	2501.2	2517.6	2532.1	2586.2	2654.7	2630.6	2682.7	2717.4	2760.8	2757.9	2758.9
35°	2371.9	2342.0	2298.6	2306.3	2347.8	2310.2	2338.2	2337.2	2381.6	2371.0	2383.5
37.5°	2151.0	2066.0	1969.5	1914.5	1922.3	1875.0	1865.3	1888.5	1903.9	1874.0	1884.6
40°	1915.5	1790.0	1639.5	1514.1	1507.3	1448.4	1437.8	1414.7	1444.6	1419.5	1427.2
42.5°	1741.8	1575.8	1378.0	1225.5	1192.7	1143.5	1114.6	1110.7	1119.4	1102.0	1097.2
45°	1608.6	1432.0	1205.3	1030.6	993.9	940.9	911.9	901.3	902.3	896.5	891.6
47.5°	1452.3	1274.7	1045.1	866.6	825.1	774.9	745.9	739.2	743.0	735.3	729.5
50°	1236.1	1076.9	867.5	704.4	667.8	631.1	607.9	601.2	600.2	594.4	590.6
52.5°	1003.6	871.4	690.0	553.9	521.1	485.4	469.0	460.3	461.3	455.5	449.7
55°	776.8	694.8	534.6	418.8	388.9	360.9	345.5	334.9	332.0	326.2	323.3
57.5°	578.0	523.0	400.5	302.0	284.7	257.7	242.2	229.7	227.7	224.8	223.9
60°	405.3	365.7	281.8	215.2	194.9	178.5	163.1	150.5	144.7	143.8	140.9
62.5°	262.5	238.4	185.3	143.8	128.3	116.8	101.3	92.6	88.8	84.9	85.9
65°	163.1	144.7	115.8	92.6	84.0	75.3	63.7	56.0	52.1	48.2	49.2
67.5°	101.3	90.7	73.3	59.8	54.0	47.3	38.6	32.8	29.9	27.0	25.1
70°	68.5	58.9	50.2	42.5	38.6	33.8	28.0	23.2	21.2	19.3	17.4
72.5°	48.2	43.4	36.7	31.8	28.9	25.1	21.2	18.3	16.4	14.5	12.5
75°	34.7	30.9	27.0	23.2	21.2	19.3	16.4	14.5	12.5	10.6	8.7
77.5°	25.1	22.2	19.3	17.4	16.4	13.5	11.6	10.6	9.6	7.7	5.8
80°	17.4	15.4	12.5	11.6	11.6	9.6	8.7	7.7	6.8	4.8	3.9
82.5°	11.6	10.6	9.6	8.7	7.7	6.8	6.8	4.8	3.9	2.9	1.9
85°	8.7	7.7	6.8	5.8	5.8	4.8	3.9	2.9	2.9	1.9	1.0
87.5°	4.8	4.8	3.9	2.9	2.9	1.9	1.9	1.0	1.0	1.0	1.0
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°	3672.7	3672.7	3672.7	3672.7	3672.7	3672.7	3672.7	3672.7	3672.7	3672.7	3672.7
2.5°	3705.5	3708.4	3724.8	3712.3	3744.1	3767.3	3755.7	3781.8	3773.1	3771.2	3801.1
5°	3730.6	3737.4	3759.6	3748.0	3782.7	3807.8	3796.3	3825.2	3816.5	3814.6	3845.5
7.5°	3778.9	3785.6	3804.9	3795.3	3832.0	3854.2	3839.7	3871.5	3859.9	3859.0	3888.9
10°	3839.7	3849.3	3865.7	3856.1	3889.9	3909.2	3894.7	3925.6	3915.0	3910.1	3942.9
12.5°	3885.0	3891.8	3908.2	3900.5	3933.3	3947.8	3935.2	3965.1	3951.6	3947.8	3976.7
15°	3874.4	3881.2	3894.7	3887.9	3918.8	3932.3	3915.9	3948.7	3935.2	3927.5	3953.5
17.5°	3806.9	3810.7	3820.4	3813.6	3846.4	3855.1	3836.8	3869.6	3857.1	3843.5	3868.6
20°	3707.5	3705.5	3711.3	3708.4	3735.5	3740.3	3728.7	3752.8	3738.4	3730.6	3745.1
22.5°	3584.0	3582.0	3585.9	3578.2	3605.2	3608.1	3590.7	3619.7	3605.2	3590.7	3614.8
25°	3446.9	3436.3	3434.4	3437.3	3455.6	3458.5	3440.2	3461.4	3443.1	3431.5	3454.7
27.5°	3278.1	3264.5	3261.7	3264.5	3282.9	3269.4	3253.9	3269.4	3251.0	3240.4	3254.9
30°	3069.6	3050.3	3041.6	3035.8	3055.1	3050.3	3014.6	3032.0	3003.0	2987.6	2998.2
32.5°	2788.8	2778.2	2755.0	2741.5	2759.9	2723.2	2701.0	2701.0	2689.4	2663.4	2669.2
35°	2399.0	2382.6	2361.3	2349.7	2352.6	2303.4	2266.8	2274.5	2235.9	2229.1	2232.0
37.5°	1905.8	1878.8	1871.1	1847.0	1852.8	1809.3	1759.2	1760.1	1739.9	1718.6	1711.9
40°	1432.0	1427.2	1419.5	1399.2	1407.0	1359.7	1340.4	1341.3	1327.8	1312.4	1320.1
42.5°	1106.8	1091.4	1086.6	1079.8	1081.7	1074.0	1048.9	1051.8	1040.3	1036.4	1032.5
45°	899.4	883.0	871.4	877.2	877.2	868.5	858.8	864.6	858.8	851.1	855.0
47.5°	741.1	725.7	719.9	718.9	725.7	719.9	710.2	712.2	711.2	708.3	706.4
50°	591.5	587.7	582.9	580.0	582.9	580.9	572.2	577.1	580.0	570.3	573.2
52.5°	450.6	450.6	449.7	442.9	448.7	442.9	442.0	443.9	441.0	437.1	436.2
55°	330.0	327.1	322.3	321.3	323.3	321.3	319.4	320.4	322.3	312.7	312.7
57.5°	225.8	223.9	221.0	221.0	224.8	220.0	217.1	221.0	217.1	213.3	213.3
60°	144.7	143.8	140.9	140.9	140.9	139.9	137.0	138.0	139.9	134.1	135.1
62.5°	86.8	84.0	83.0	82.0	83.0	82.0	82.0	81.1	80.1	80.1	77.2
65°	47.3	45.4	43.4	44.4	44.4	43.4	43.4	43.4	41.5	40.5	39.6
67.5°	24.1	22.2	22.2	21.2	21.2	21.2	21.2	20.3	20.3	20.3	19.3
70°	15.4	14.5	13.5	13.5	13.5	12.5	12.5	12.5	12.5	12.5	11.6
72.5°	10.6	9.6	8.7	8.7	8.7	7.7	7.7	7.7	7.7	6.8	6.8
75°	7.7	6.8	5.8	5.8	5.8	4.8	4.8	4.8	4.8	4.8	4.8
77.5°	4.8	3.9	3.9	3.9	3.9	2.9	2.9	2.9	2.9	2.9	1.9
80°	2.9	2.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0
82.5°	1.9	1.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
87.5°	1.0	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: P250902

CATALOG NUMBER: LSR8B60D010 EC8B60935 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3672.7	3672.7	3672.7	3672.7	3672.7	3672.7	3672.7	3672.7
2.5°	3790.5	3782.7	3787.6	3823.3	3807.8	3803.0	3762.5	3798.2
5°	3835.8	3830.0	3830.0	3870.6	3852.2	3848.4	3808.8	3839.7
7.5°	3878.3	3872.5	3873.5	3915.0	3900.5	3894.7	3855.1	3886.0
10°	3933.3	3929.4	3930.4	3970.0	3954.5	3948.7	3908.2	3940.0
12.5°	3966.1	3960.3	3960.3	4002.8	3985.4	3976.7	3938.1	3969.0
15°	3941.0	3932.3	3932.3	3974.8	3955.5	3942.9	3909.2	3938.1
17.5°	3855.1	3846.4	3846.4	3883.1	3868.6	3850.3	3815.6	3842.6
20°	3735.5	3724.8	3722.0	3764.4	3744.1	3727.7	3696.9	3722.9
22.5°	3600.4	3595.5	3586.9	3629.3	3611.0	3593.6	3560.8	3581.1
25°	3438.2	3430.5	3421.8	3463.3	3445.0	3427.6	3401.6	3418.0
27.5°	3236.6	3237.5	3232.7	3265.5	3247.2	3237.5	3205.7	3232.7
30°	2992.4	2981.8	2977.9	3016.5	2999.2	2986.6	2947.1	2973.1
32.5°	2674.0	2658.5	2638.3	2681.7	2651.8	2641.2	2607.4	2645.0
35°	2210.8	2206.0	2187.6	2224.3	2207.9	2188.6	2167.4	2199.2
37.5°	1709.0	1712.9	1710.9	1720.6	1710.9	1698.4	1675.2	1663.6
40°	1304.7	1295.0	1287.3	1304.7	1284.4	1284.4	1270.9	1285.4
42.5°	1022.9	1019.0	1028.7	1032.5	1021.0	1019.0	1017.1	1016.1
45°	844.4	844.4	846.3	850.2	846.3	844.4	838.6	834.7
47.5°	695.8	699.6	695.8	708.3	701.5	699.6	688.0	692.9
50°	563.6	558.7	563.6	567.4	568.4	562.6	556.8	559.7
52.5°	437.1	429.4	427.5	433.3	429.4	429.4	425.6	424.6
55°	307.8	310.7	305.9	310.7	308.8	305.9	303.0	306.9
57.5°	208.4	209.4	207.5	210.4	205.5	206.5	205.5	204.6
60°	135.1	131.2	131.2	134.1	129.3	129.3	128.3	128.3
62.5°	77.2	76.2	76.2	75.3	74.3	74.3	74.3	72.4
65°	39.6	38.6	37.6	37.6	37.6	37.6	36.7	36.7
67.5°	19.3	18.3	18.3	19.3	18.3	18.3	18.3	18.3
70°	11.6	11.6	10.6	11.6	10.6	10.6	10.6	10.6
72.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
75°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
77.5°	2.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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)