

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: P251196

Luminaire Tested: **LSR8B60D010 EC8B60827 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251196
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 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5964.0 lumens
Efficiency: N/A
Efficacy: 100.2 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

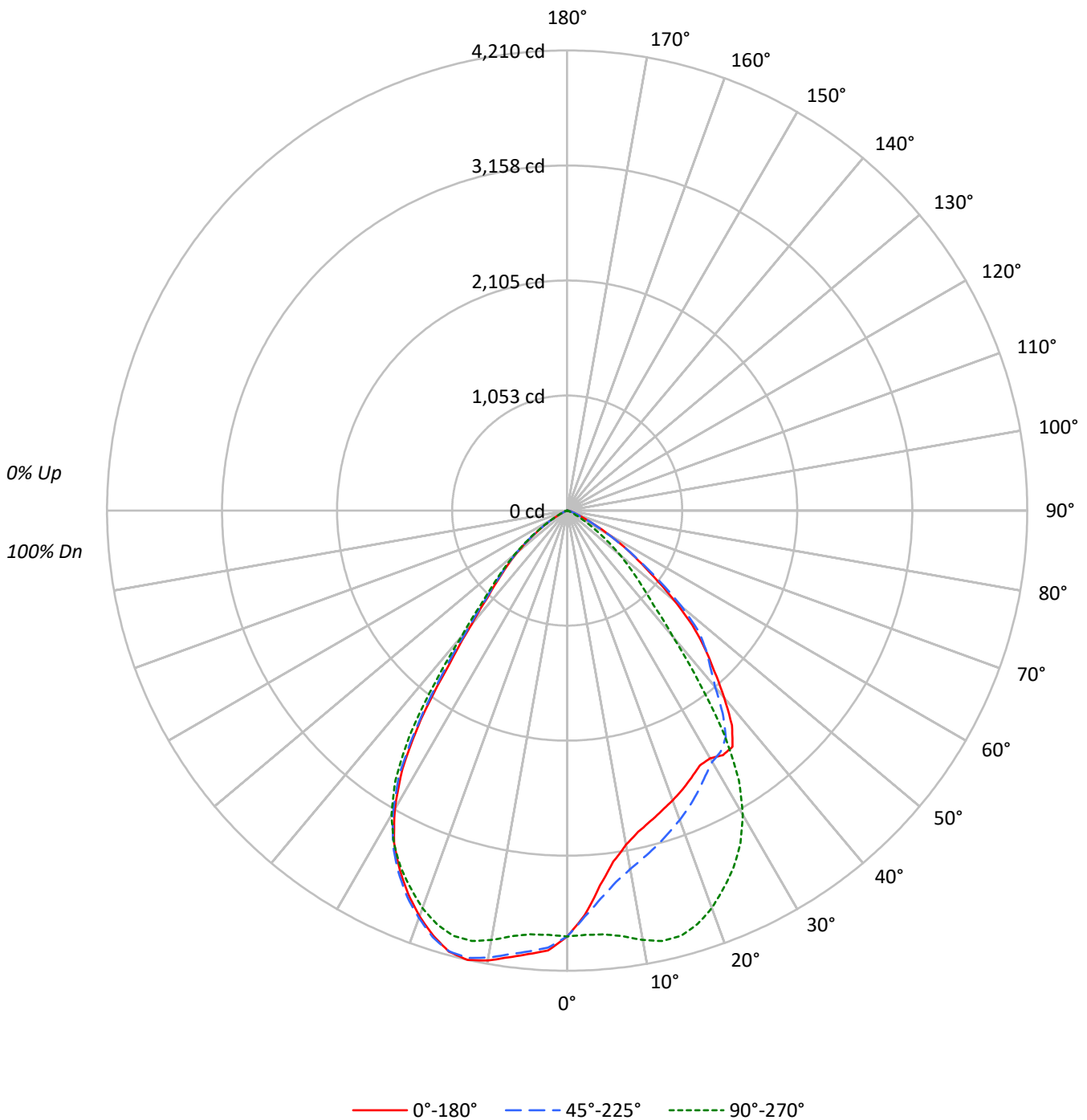
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: LSR8B60D010 EC8B60827 8LBSW0WH

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°	120144	120144	120144
5°	106597	120442	126085
10°	97186	124913	130875
15°	93924	128565	133369
20°	92582	126979	129601
25°	91671	122602	123368
30°	93165	114419	112304
35°	99305	94683	87824
40°	89996	60614	54890
45°	77677	41472	38616
50°	61290	30252	28481
55°	42541	18601	17499
60°	27087	9405	8400
65°	13520	3736	2838
70°	7474	1848	1019
75°	5361	1346	488
80°	4368	906	178
85°	4706	708	0



TEST NUMBER: P251196

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.1	6.1
10°-20°	1048.8	17.6
20°-30°	1522.3	25.5
30°-40°	1499.3	25.1
40°-50°	939.9	15.8
50°-60°	453.5	7.6
60°-70°	109.8	1.8
70°-80°	22.2	0.4
80°-90°	5.1	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°	2934.3	49.2
0°-40°	4433.6	74.3
0°-60°	5827.0	97.7
0°-90°	5964.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5964.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3896	3896	3896	3896	3896	
5°	3444	3560	3891	4049	4073	319
15°	2942	3173	4027	4175	4178	832
25°	2694	2835	3603	3652	3626	1247
35°	2638	2531	2515	2372	2333	1596
45°	1781	1794	951	911	886	1362
55°	791	817	346	342	326	728
65°	185	183	51	44	39	211
75°	45	39	11	5	4	51
85°	13	10	2	0	0	14
90°	0	0	0	0	0	



TEST NUMBER: P251196

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3896.2	3896.2	3896.2	3896.2	3896.2	3896.2	3896.2	3896.2	3896.2	3896.2	3896.2
2.5°	3703.7	3680.2	3636.1	3689.4	3689.4	3659.7	3719.1	3683.2	3711.9	3756.9	3717.0
5°	3443.7	3424.2	3387.4	3443.7	3450.9	3423.2	3494.9	3468.3	3510.2	3565.5	3560.4
7.5°	3237.9	3213.4	3179.6	3237.9	3249.2	3230.8	3299.3	3287.1	3342.3	3414.0	3426.3
10°	3103.8	3078.2	3048.5	3101.8	3110.0	3097.7	3167.3	3160.1	3214.4	3297.3	3330.1
12.5°	3008.6	2987.1	2954.4	3010.7	3019.9	3002.5	3068.0	3064.9	3121.2	3208.2	3249.2
15°	2942.1	2916.5	2886.8	2934.9	2947.2	2927.8	2990.2	2984.1	3041.4	3127.4	3173.4
17.5°	2879.6	2856.1	2825.4	2870.4	2882.7	2862.2	2923.7	2913.4	2962.6	3044.5	3091.5
20°	2821.3	2795.7	2768.1	2814.1	2821.3	2797.7	2859.2	2845.9	2889.9	2965.6	3011.7
22.5°	2760.9	2734.3	2705.6	2750.7	2757.8	2734.3	2790.6	2775.2	2816.2	2884.8	2926.7
25°	2694.3	2669.8	2641.1	2683.1	2689.2	2663.6	2723.0	2703.6	2739.4	2799.8	2834.6
27.5°	2627.8	2604.3	2572.5	2615.5	2618.6	2594.0	2648.3	2621.7	2651.4	2706.6	2736.3
30°	2616.5	2589.9	2557.2	2592.0	2593.0	2561.3	2612.5	2580.7	2597.1	2638.0	2655.4
32.5°	2652.4	2625.8	2592.0	2620.6	2617.6	2582.8	2631.9	2593.0	2598.1	2619.6	2615.5
35°	2638.0	2606.3	2566.4	2597.1	2597.1	2555.1	2604.3	2558.2	2553.1	2556.2	2530.6
37.5°	2475.3	2450.7	2412.8	2442.5	2439.5	2407.7	2445.6	2407.7	2390.3	2383.1	2337.1
40°	2235.7	2206.0	2177.4	2209.1	2212.2	2178.4	2227.5	2184.6	2179.4	2159.0	2104.7
42.5°	1993.1	1982.9	1955.2	1981.9	1996.2	1967.5	2008.5	1988.0	1991.1	1986.0	1934.8
45°	1781.2	1763.8	1743.3	1774.1	1783.3	1768.9	1809.9	1797.6	1809.9	1835.5	1793.5
47.5°	1552.9	1535.5	1513.0	1545.8	1562.1	1535.5	1570.3	1566.2	1584.7	1628.7	1624.6
50°	1277.6	1265.3	1261.2	1265.3	1275.5	1263.2	1287.8	1288.8	1301.1	1361.5	1365.6
52.5°	1011.4	1008.3	994.0	1007.3	1007.3	987.9	1012.4	1001.2	1013.5	1054.4	1081.0
55°	791.3	788.2	779.0	791.3	778.0	770.8	778.0	766.7	757.5	789.3	816.9
57.5°	616.3	606.0	594.8	599.9	598.9	583.5	591.7	578.4	571.2	582.5	607.0
60°	439.2	436.1	425.9	431.0	435.1	423.8	432.0	425.9	413.6	422.8	423.8
62.5°	291.8	293.8	287.7	288.7	285.6	283.6	288.7	291.8	288.7	284.6	285.6
65°	185.3	184.3	183.2	184.3	186.3	182.2	185.3	187.3	184.3	184.3	183.2
67.5°	122.8	119.8	116.7	118.7	120.8	117.7	120.8	119.8	120.8	119.8	116.7
70°	82.9	81.9	80.9	81.9	81.9	79.8	81.9	80.9	81.9	80.9	77.8
72.5°	60.4	60.4	59.4	60.4	60.4	58.4	59.4	57.3	58.4	57.3	55.3
75°	45.0	45.0	44.0	45.0	44.0	43.0	44.0	43.0	40.9	40.9	38.9
77.5°	32.8	32.8	32.8	32.8	32.8	31.7	31.7	30.7	29.7	28.7	28.7
80°	24.6	23.5	23.5	23.5	23.5	22.5	23.5	22.5	21.5	20.5	19.5
82.5°	17.4	18.4	17.4	17.4	17.4	16.4	17.4	16.4	16.4	15.4	13.3
85°	13.3	13.3	13.3	13.3	13.3	12.3	12.3	12.3	11.3	11.3	10.2
87.5°	7.2	7.2	7.2	8.2	7.2	7.2	7.2	6.1	6.1	5.1	5.1
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: P251196

CATALOG NUMBER: LSR8B60D010 EC8B60827 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3896.2	3896.2	3896.2	3896.2	3896.2	3896.2	3896.2	3896.2	3896.2	3896.2	3896.2
2.5°	3770.2	3775.4	3764.1	3781.5	3849.1	3794.8	3817.3	3824.5	3875.7	3884.9	3878.8
5°	3626.9	3649.5	3663.8	3702.7	3777.4	3738.5	3778.4	3804.0	3869.5	3891.0	3896.2
7.5°	3514.3	3561.4	3596.2	3659.7	3747.7	3718.0	3778.4	3820.4	3900.3	3927.9	3941.2
10°	3430.4	3502.0	3562.4	3649.5	3748.7	3729.3	3808.1	3867.5	3956.6	3989.3	4005.7
12.5°	3366.9	3453.9	3534.8	3645.4	3752.8	3743.6	3838.8	3906.4	4000.6	4033.3	4052.8
15°	3297.3	3397.6	3491.8	3615.7	3731.3	3729.3	3831.7	3903.3	3999.6	4027.2	4045.6
17.5°	3214.4	3321.9	3425.3	3559.4	3674.0	3676.1	3779.5	3850.1	3944.3	3966.8	3979.1
20°	3130.4	3236.9	3340.3	3478.5	3591.1	3594.2	3695.5	3761.0	3851.1	3869.5	3872.6
22.5°	3041.4	3140.7	3244.1	3381.2	3489.8	3491.8	3592.1	3653.5	3730.3	3739.5	3747.7
25°	2940.0	3037.3	3134.5	3270.7	3374.1	3380.2	3471.3	3525.6	3596.2	3603.4	3606.5
27.5°	2834.6	2914.4	3007.6	3124.3	3228.7	3224.6	3310.6	3372.0	3435.5	3431.4	3430.4
30°	2728.1	2794.7	2852.0	2964.6	3041.4	3044.5	3125.3	3155.0	3221.5	3213.4	3212.3
32.5°	2653.4	2670.8	2686.2	2743.5	2816.2	2790.6	2845.9	2882.7	2928.8	2925.7	2926.7
35°	2516.2	2484.5	2438.4	2446.6	2490.6	2450.7	2480.4	2479.4	2526.5	2515.2	2528.5
37.5°	2281.8	2191.7	2089.3	2031.0	2039.2	1989.0	1978.8	2003.4	2019.7	1988.0	1999.3
40°	2032.0	1898.9	1739.2	1606.2	1599.0	1536.6	1525.3	1500.7	1532.5	1505.8	1514.0
42.5°	1847.8	1671.7	1461.8	1300.1	1265.3	1213.1	1182.4	1178.3	1187.5	1169.1	1163.9
45°	1706.5	1519.2	1278.6	1093.3	1054.4	998.1	967.4	956.1	957.1	951.0	945.9
47.5°	1540.7	1352.3	1108.7	919.3	875.3	822.0	791.3	784.1	788.2	780.1	773.9
50°	1311.3	1142.4	920.3	747.3	708.4	669.5	644.9	637.8	636.7	630.6	626.5
52.5°	1064.6	924.4	731.9	587.6	552.8	514.9	497.5	488.3	489.3	483.2	477.0
55°	824.1	737.1	567.1	444.3	412.5	382.9	366.5	355.2	352.1	346.0	342.9
57.5°	613.2	554.8	424.8	320.4	302.0	273.3	256.9	243.6	241.6	238.5	237.5
60°	429.9	388.0	298.9	228.3	206.8	189.4	173.0	159.7	153.6	152.5	149.5
62.5°	278.4	252.9	196.5	152.5	136.2	123.9	107.5	98.3	94.2	90.1	91.1
65°	173.0	153.6	122.8	98.3	89.1	79.8	67.6	59.4	55.3	51.2	52.2
67.5°	107.5	96.2	77.8	63.5	57.3	50.2	40.9	34.8	31.7	28.7	26.6
70°	72.7	62.4	53.2	45.0	40.9	35.8	29.7	24.6	22.5	20.5	18.4
72.5°	51.2	46.1	38.9	33.8	30.7	26.6	22.5	19.5	17.4	15.4	13.3
75°	36.9	32.8	28.7	24.6	22.5	20.5	17.4	15.4	13.3	11.3	9.2
77.5°	26.6	23.5	20.5	18.4	17.4	14.3	12.3	11.3	10.2	8.2	6.1
80°	18.4	16.4	13.3	12.3	12.3	10.2	9.2	8.2	7.2	5.1	4.1
82.5°	12.3	11.3	10.2	9.2	8.2	7.2	7.2	5.1	4.1	3.1	2.0
85°	9.2	8.2	7.2	6.1	6.1	5.1	4.1	3.1	3.1	2.0	1.0
87.5°	5.1	5.1	4.1	3.1	3.1	2.0	2.0	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



TEST NUMBER: P251196

CATALOG NUMBER: LSR8B60D010 EC8B60827 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3896.2	3896.2	3896.2	3896.2	3896.2	3896.2	3896.2	3896.2	3896.2	3896.2	3896.2
2.5°	3931.0	3934.0	3951.4	3938.1	3971.9	3996.5	3984.2	4011.8	4002.6	4000.6	4032.3
5°	3957.6	3964.7	3988.3	3976.0	4012.9	4039.5	4027.2	4057.9	4048.7	4046.6	4079.4
7.5°	4008.8	4015.9	4036.4	4026.2	4065.1	4088.6	4073.3	4107.0	4094.8	4093.7	4125.5
10°	4073.3	4083.5	4100.9	4090.7	4126.5	4147.0	4131.6	4164.4	4153.1	4148.0	4182.8
12.5°	4121.4	4128.5	4145.9	4137.8	4172.6	4187.9	4174.6	4206.3	4192.0	4187.9	4218.6
15°	4110.1	4117.3	4131.6	4124.4	4157.2	4171.5	4154.1	4188.9	4174.6	4166.4	4194.1
17.5°	4038.5	4042.5	4052.8	4045.6	4080.4	4089.6	4070.2	4105.0	4091.7	4077.4	4104.0
20°	3933.0	3931.0	3937.1	3934.0	3962.7	3967.8	3955.5	3981.1	3965.8	3957.6	3972.9
22.5°	3802.0	3799.9	3804.0	3795.8	3824.5	3827.6	3809.1	3839.9	3824.5	3809.1	3834.7
25°	3656.6	3645.4	3643.3	3646.4	3665.8	3668.9	3649.5	3672.0	3652.5	3640.2	3664.8
27.5°	3477.5	3463.1	3460.1	3463.1	3482.6	3468.3	3451.9	3468.3	3448.8	3437.5	3452.9
30°	3256.4	3235.9	3226.7	3220.5	3241.0	3235.9	3198.0	3216.4	3185.7	3169.3	3180.6
32.5°	2958.5	2947.2	2922.6	2908.3	2927.8	2888.9	2865.3	2865.3	2853.0	2825.4	2831.5
35°	2544.9	2527.5	2505.0	2492.7	2495.8	2443.5	2404.6	2412.8	2371.9	2364.7	2367.8
37.5°	2021.8	1993.1	1984.9	1959.3	1965.5	1919.4	1866.2	1867.2	1845.7	1823.2	1816.0
40°	1519.2	1514.0	1505.8	1484.3	1492.5	1442.4	1421.9	1422.9	1408.6	1392.2	1400.4
42.5°	1174.2	1157.8	1152.7	1145.5	1147.6	1139.4	1112.7	1115.8	1103.5	1099.4	1095.3
45°	954.1	936.7	924.4	930.5	930.5	921.3	911.1	917.2	911.1	902.9	907.0
47.5°	786.2	769.8	763.7	762.6	769.8	763.7	753.4	755.5	754.5	751.4	749.3
50°	627.5	623.4	618.3	615.2	618.3	616.3	607.0	612.2	615.2	605.0	608.1
52.5°	478.1	478.1	477.0	469.9	476.0	469.9	468.8	470.9	467.8	463.7	462.7
55°	350.1	347.0	341.9	340.9	342.9	340.9	338.8	339.9	341.9	331.7	331.7
57.5°	239.5	237.5	234.4	234.4	238.5	233.4	230.3	234.4	230.3	226.2	226.2
60°	153.6	152.5	149.5	149.5	149.5	148.4	145.4	146.4	148.4	142.3	143.3
62.5°	92.1	89.1	88.0	87.0	88.0	87.0	87.0	86.0	85.0	85.0	81.9
65°	50.2	48.1	46.1	47.1	47.1	46.1	46.1	46.1	44.0	43.0	42.0
67.5°	25.6	23.5	23.5	22.5	22.5	22.5	22.5	21.5	21.5	21.5	20.5
70°	16.4	15.4	14.3	14.3	14.3	13.3	13.3	13.3	13.3	13.3	12.3
72.5°	11.3	10.2	9.2	9.2	9.2	8.2	8.2	8.2	8.2	7.2	7.2
75°	8.2	7.2	6.1	6.1	6.1	5.1	5.1	5.1	5.1	5.1	5.1
77.5°	5.1	4.1	4.1	4.1	4.1	3.1	3.1	3.1	3.1	3.1	2.0
80°	3.1	3.1	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
82.5°	2.0	2.0	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: P251196

CATALOG NUMBER: LSR8B60D010 EC8B60827 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3896.2	3896.2	3896.2	3896.2	3896.2	3896.2	3896.2	3896.2
2.5°	4021.1	4012.9	4018.0	4055.9	4039.5	4034.4	3991.4	4029.2
5°	4069.2	4063.0	4063.0	4106.0	4086.6	4082.5	4040.5	4073.3
7.5°	4114.2	4108.1	4109.1	4153.1	4137.8	4131.6	4089.6	4122.4
10°	4172.6	4168.5	4169.5	4211.5	4195.1	4188.9	4145.9	4179.7
12.5°	4207.4	4201.2	4201.2	4246.3	4227.8	4218.6	4177.7	4210.4
15°	4180.7	4171.5	4171.5	4216.6	4196.1	4182.8	4147.0	4177.7
17.5°	4089.6	4080.4	4080.4	4119.3	4104.0	4084.5	4047.7	4076.3
20°	3962.7	3951.4	3948.4	3993.4	3971.9	3954.5	3921.8	3949.4
22.5°	3819.4	3814.3	3805.1	3850.1	3830.6	3812.2	3777.4	3798.9
25°	3647.4	3639.2	3630.0	3674.0	3654.6	3636.1	3608.5	3625.9
27.5°	3433.5	3434.5	3429.4	3464.2	3444.7	3434.5	3400.7	3429.4
30°	3174.5	3163.2	3159.1	3200.1	3181.6	3168.3	3126.3	3154.0
32.5°	2836.6	2820.3	2798.8	2844.8	2813.1	2801.8	2766.0	2805.9
35°	2345.3	2340.2	2320.7	2359.6	2342.2	2321.7	2299.2	2333.0
37.5°	1813.0	1817.0	1815.0	1825.2	1815.0	1801.7	1777.1	1764.8
40°	1384.0	1373.8	1365.6	1384.0	1362.5	1362.5	1348.2	1363.6
42.5°	1085.1	1081.0	1091.3	1095.3	1083.1	1081.0	1079.0	1077.9
45°	895.7	895.7	897.8	901.9	897.8	895.7	889.6	885.5
47.5°	738.1	742.2	738.1	751.4	744.2	742.2	729.9	735.0
50°	597.8	592.7	597.8	601.9	603.0	596.8	590.7	593.7
52.5°	463.7	455.5	453.5	459.6	455.5	455.5	451.4	450.4
55°	326.6	329.6	324.5	329.6	327.6	324.5	321.4	325.5
57.5°	221.1	222.1	220.1	223.2	218.0	219.1	218.0	217.0
60°	143.3	139.2	139.2	142.3	137.2	137.2	136.2	136.2
62.5°	81.9	80.9	80.9	79.8	78.8	78.8	78.8	76.8
65°	42.0	40.9	39.9	39.9	39.9	39.9	38.9	38.9
67.5°	20.5	19.5	19.5	20.5	19.5	19.5	19.5	19.5
70°	12.3	12.3	11.3	12.3	11.3	11.3	11.3	11.3
72.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
75°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
77.5°	3.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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)