

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: P251198

Luminaire Tested: **LSR8B60D010 EC8B60830 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251198
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 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6114.0 lumens
Efficiency: N/A
Efficacy: 102.8 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

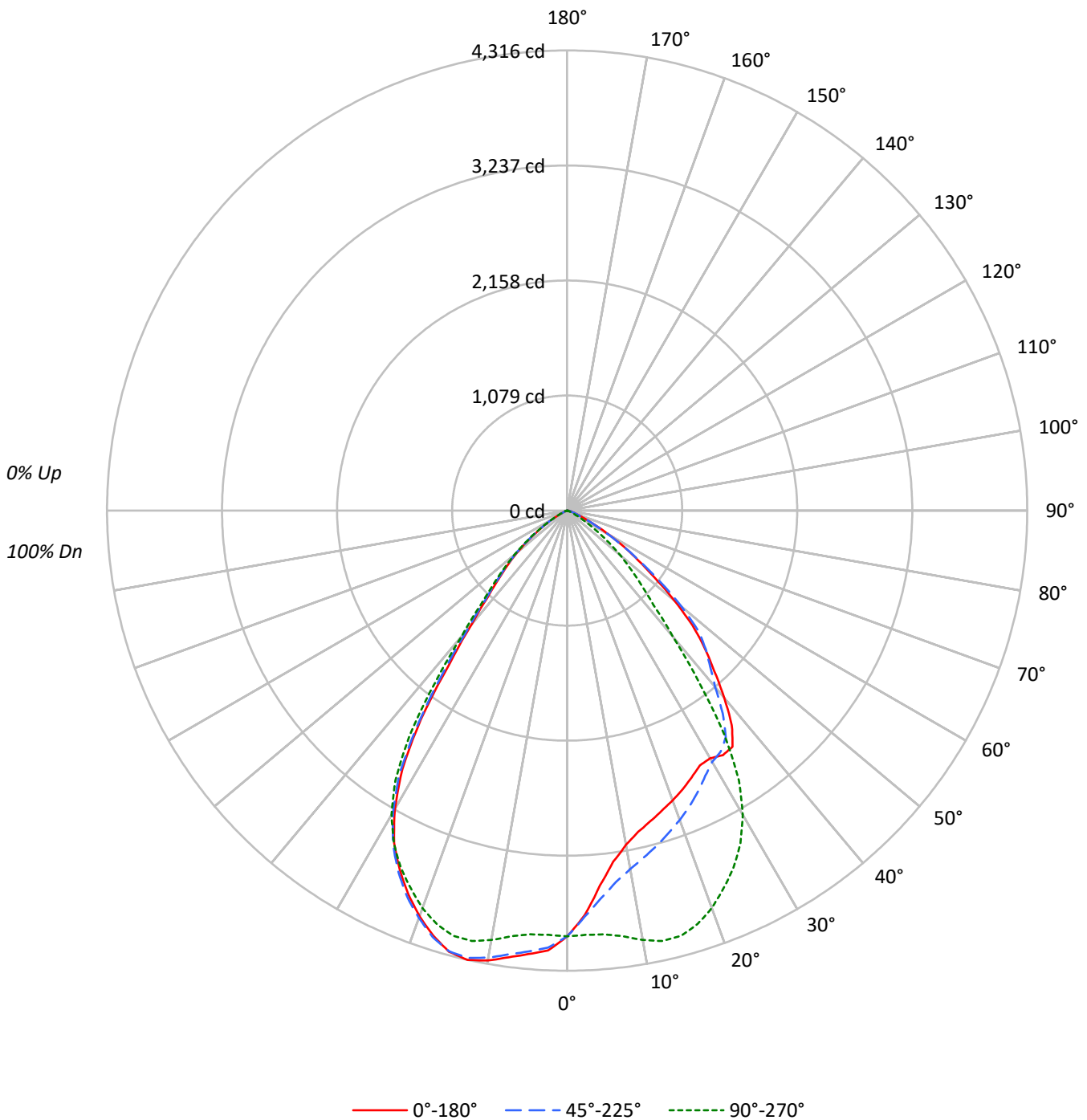
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	123166	123166	123166
5°	109277	123473	129255
10°	99632	128057	134166
15°	96286	131799	136721
20°	94908	130175	132859
25°	93978	125685	126471
30°	95511	117296	115127
35°	101805	97066	90034
40°	92262	62140	56267
45°	79630	42515	39588
50°	62830	31014	29201
55°	43611	19069	17940
60°	27765	9646	8609
65°	13856	3831	2911
70°	7664	1893	1037
75°	5504	1370	500
80°	4475	923	178
85°	4812	743	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.3	6.1
10°-20°	1075.2	17.6
20°-30°	1560.6	25.5
30°-40°	1537.0	25.1
40°-50°	963.5	15.8
50°-60°	464.9	7.6
60°-70°	112.5	1.8
70°-80°	22.7	0.4
80°-90°	5.2	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°	3008.1	49.2
0°-40°	4545.1	74.3
0°-60°	5973.5	97.7
0°-90°	6114.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6114.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3994	3994	3994	3994	3994	
5°	3530	3650	3989	4150	4176	327
15°	3016	3253	4128	4280	4283	853
25°	2762	2906	3694	3744	3717	1278
35°	2704	2594	2578	2432	2392	1636
45°	1826	1839	975	934	908	1396
55°	811	837	355	350	334	746
65°	190	188	52	45	40	217
75°	46	40	12	5	4	52
85°	14	10	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°	3994.2	3994.2	3994.2	3994.2	3994.2	3994.2	3994.2	3994.2	3994.2	3994.2	3994.2
2.5°	3796.9	3772.7	3727.6	3782.2	3782.2	3751.7	3812.6	3775.9	3805.3	3851.4	3810.5
5°	3530.3	3510.4	3472.6	3530.3	3537.6	3509.3	3582.8	3555.5	3598.5	3655.2	3649.9
7.5°	3319.4	3294.2	3259.5	3319.4	3330.9	3312.0	3382.3	3369.7	3426.4	3499.9	3512.5
10°	3181.9	3155.7	3125.2	3179.8	3188.2	3175.6	3247.0	3239.6	3295.2	3380.2	3413.8
12.5°	3084.3	3062.3	3028.7	3086.4	3095.8	3078.0	3145.2	3142.0	3199.7	3288.9	3330.9
15°	3016.1	2989.8	2959.4	3008.7	3021.3	3001.4	3065.4	3059.1	3117.9	3206.0	3253.3
17.5°	2952.1	2927.9	2896.4	2942.6	2955.2	2934.2	2997.2	2986.7	3037.1	3121.0	3169.3
20°	2892.2	2866.0	2837.7	2884.9	2892.2	2868.1	2931.1	2917.4	2962.6	3040.2	3087.4
22.5°	2830.3	2803.0	2773.7	2819.8	2827.2	2803.0	2860.8	2845.0	2887.0	2957.3	3000.3
25°	2762.1	2736.9	2707.5	2750.6	2756.9	2730.6	2791.5	2771.6	2808.3	2870.2	2905.9
27.5°	2693.9	2669.8	2637.2	2681.3	2684.5	2659.3	2714.9	2687.6	2718.0	2774.7	2805.1
30°	2682.4	2655.1	2621.5	2657.2	2658.2	2625.7	2678.2	2645.6	2662.4	2704.4	2722.2
32.5°	2719.1	2691.8	2657.2	2686.6	2683.4	2647.7	2698.1	2658.2	2663.5	2685.5	2681.3
35°	2704.4	2671.9	2630.9	2662.4	2662.4	2619.4	2669.8	2622.5	2617.3	2620.4	2594.2
37.5°	2537.5	2512.3	2473.5	2504.0	2500.8	2468.3	2507.1	2468.3	2450.4	2443.1	2395.9
40°	2292.0	2261.5	2232.1	2264.7	2267.8	2233.2	2283.6	2239.5	2234.2	2213.3	2157.6
42.5°	2043.3	2032.8	2004.4	2031.7	2046.4	2017.0	2059.0	2038.0	2041.2	2035.9	1983.4
45°	1826.0	1808.2	1787.2	1818.7	1828.1	1813.4	1855.4	1842.8	1855.4	1881.6	1838.6
47.5°	1592.0	1574.2	1551.1	1584.6	1601.4	1574.2	1609.8	1605.6	1624.5	1669.7	1665.5
50°	1309.7	1297.1	1292.9	1297.1	1307.6	1295.0	1320.2	1321.2	1333.8	1395.7	1399.9
52.5°	1036.8	1033.7	1019.0	1032.6	1032.6	1012.7	1037.9	1026.3	1038.9	1080.9	1108.2
55°	811.2	808.1	798.6	811.2	797.6	790.2	797.6	786.0	776.6	809.1	837.4
57.5°	631.8	621.3	609.7	615.0	613.9	598.2	606.6	592.9	585.6	597.1	622.3
60°	450.2	447.1	436.6	441.8	446.0	434.5	442.9	436.6	424.0	433.4	434.5
62.5°	299.1	301.2	294.9	295.9	292.8	290.7	295.9	299.1	295.9	291.7	292.8
65°	189.9	188.9	187.8	188.9	191.0	186.8	189.9	192.0	188.9	188.9	187.8
67.5°	125.9	122.8	119.6	121.7	123.8	120.7	123.8	122.8	123.8	122.8	119.6
70°	85.0	84.0	82.9	84.0	84.0	81.9	84.0	82.9	84.0	82.9	79.8
72.5°	61.9	61.9	60.9	61.9	61.9	59.8	60.9	58.8	59.8	58.8	56.7
75°	46.2	46.2	45.1	46.2	45.1	44.1	45.1	44.1	42.0	42.0	39.9
77.5°	33.6	33.6	33.6	33.6	33.6	32.5	32.5	31.5	30.4	29.4	29.4
80°	25.2	24.1	24.1	24.1	24.1	23.1	24.1	23.1	22.0	21.0	19.9
82.5°	17.8	18.9	17.8	17.8	17.8	16.8	17.8	16.8	16.8	15.7	13.6
85°	13.6	13.6	13.6	13.6	13.6	12.6	12.6	12.6	11.5	11.5	10.5
87.5°	7.3	7.3	7.3	8.4	7.3	7.3	7.3	6.3	6.3	5.2	5.2
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°	3994.2	3994.2	3994.2	3994.2	3994.2	3994.2	3994.2	3994.2	3994.2	3994.2	3994.2
2.5°	3865.1	3870.3	3858.8	3876.6	3945.9	3890.3	3913.3	3920.7	3973.2	3982.6	3976.3
5°	3718.2	3741.2	3755.9	3795.8	3872.4	3832.5	3873.5	3899.7	3966.9	3988.9	3994.2
7.5°	3602.7	3651.0	3686.7	3751.7	3842.0	3811.6	3873.5	3916.5	3998.3	4026.7	4040.3
10°	3516.7	3590.1	3652.0	3741.2	3843.0	3823.1	3903.9	3964.8	4056.1	4089.7	4106.4
12.5°	3451.6	3540.8	3623.7	3737.0	3847.2	3837.8	3935.4	4004.6	4101.2	4134.8	4154.7
15°	3380.2	3483.1	3579.6	3706.6	3825.2	3823.1	3928.0	4001.5	4100.1	4128.5	4147.4
17.5°	3295.2	3405.4	3511.4	3648.9	3766.4	3768.5	3874.5	3946.9	4043.5	4066.6	4079.2
20°	3209.2	3318.3	3424.3	3566.0	3681.4	3684.6	3788.5	3855.6	3948.0	3966.9	3970.0
22.5°	3117.9	3219.7	3325.7	3466.3	3577.5	3579.6	3682.5	3745.4	3824.1	3833.6	3842.0
25°	3014.0	3113.7	3213.4	3352.9	3458.9	3465.2	3558.6	3614.3	3686.7	3694.0	3697.2
27.5°	2905.9	2987.7	3083.2	3202.9	3309.9	3305.7	3393.9	3456.8	3521.9	3517.7	3516.7
30°	2796.7	2865.0	2923.7	3039.2	3117.9	3121.0	3203.9	3234.4	3302.6	3294.2	3293.1
32.5°	2720.1	2738.0	2753.7	2812.5	2887.0	2860.8	2917.4	2955.2	3002.4	2999.3	3000.3
35°	2579.5	2547.0	2499.8	2508.2	2553.3	2512.3	2542.8	2541.7	2590.0	2578.5	2592.1
37.5°	2339.2	2246.8	2141.9	2082.1	2090.5	2039.1	2028.6	2053.7	2070.5	2038.0	2049.5
40°	2083.1	1946.7	1783.0	1646.6	1639.2	1575.2	1563.7	1538.5	1571.0	1543.7	1552.1
42.5°	1894.2	1713.7	1498.6	1332.8	1297.1	1243.6	1212.1	1207.9	1217.3	1198.5	1193.2
45°	1749.4	1557.4	1310.7	1120.8	1080.9	1023.2	991.7	980.2	981.2	974.9	969.7
47.5°	1579.4	1386.3	1136.5	942.4	897.3	842.7	811.2	803.9	808.1	799.7	793.4
50°	1344.3	1171.2	943.4	766.1	726.2	686.3	661.1	653.8	652.7	646.5	642.3
52.5°	1091.4	947.6	750.3	602.4	566.7	527.9	510.0	500.6	501.6	495.3	489.0
55°	844.8	755.6	581.4	455.5	422.9	392.5	375.7	364.2	361.0	354.7	351.6
57.5°	628.6	568.8	435.5	328.5	309.6	280.2	263.4	249.8	247.7	244.5	243.5
60°	440.8	397.7	306.4	234.0	212.0	194.1	177.4	163.7	157.4	156.4	153.2
62.5°	285.4	259.2	201.5	156.4	139.6	127.0	110.2	100.7	96.5	92.4	93.4
65°	177.4	157.4	125.9	100.7	91.3	81.9	69.3	60.9	56.7	52.5	53.5
67.5°	110.2	98.6	79.8	65.1	58.8	51.4	42.0	35.7	32.5	29.4	27.3
70°	74.5	64.0	54.6	46.2	42.0	36.7	30.4	25.2	23.1	21.0	18.9
72.5°	52.5	47.2	39.9	34.6	31.5	27.3	23.1	19.9	17.8	15.7	13.6
75°	37.8	33.6	29.4	25.2	23.1	21.0	17.8	15.7	13.6	11.5	9.4
77.5°	27.3	24.1	21.0	18.9	17.8	14.7	12.6	11.5	10.5	8.4	6.3
80°	18.9	16.8	13.6	12.6	12.6	10.5	9.4	8.4	7.3	5.2	4.2
82.5°	12.6	11.5	10.5	9.4	8.4	7.3	7.3	5.2	4.2	3.1	2.1
85°	9.4	8.4	7.3	6.3	6.3	5.2	4.2	3.1	3.1	2.1	1.0
87.5°	5.2	5.2	4.2	3.1	3.1	2.1	2.1	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°	3994.2	3994.2	3994.2	3994.2	3994.2	3994.2	3994.2	3994.2	3994.2	3994.2	3994.2
2.5°	4029.8	4033.0	4050.8	4037.2	4071.8	4097.0	4084.4	4112.7	4103.3	4101.2	4133.7
5°	4057.1	4064.5	4088.6	4076.0	4113.8	4141.1	4128.5	4160.0	4150.5	4148.4	4182.0
7.5°	4109.6	4116.9	4137.9	4127.4	4167.3	4191.4	4175.7	4210.3	4197.7	4196.7	4229.2
10°	4175.7	4186.2	4204.0	4193.5	4230.3	4251.3	4235.5	4269.1	4257.6	4252.3	4288.0
12.5°	4225.0	4232.4	4250.2	4241.8	4277.5	4293.2	4279.6	4312.1	4297.4	4293.2	4324.7
15°	4213.5	4220.8	4235.5	4228.2	4261.8	4276.5	4258.6	4294.3	4279.6	4271.2	4299.5
17.5°	4140.0	4144.2	4154.7	4147.4	4183.1	4192.5	4172.6	4208.2	4194.6	4179.9	4207.2
20°	4031.9	4029.8	4036.1	4033.0	4062.4	4067.6	4055.0	4081.3	4065.5	4057.1	4072.9
22.5°	3897.6	3895.5	3899.7	3891.3	3920.7	3923.8	3905.0	3936.4	3920.7	3905.0	3931.2
25°	3748.6	3737.0	3734.9	3738.1	3758.0	3761.2	3741.2	3764.3	3744.4	3731.8	3757.0
27.5°	3564.9	3550.2	3547.1	3550.2	3570.2	3555.5	3538.7	3555.5	3535.5	3524.0	3539.7
30°	3338.3	3317.3	3307.8	3301.5	3322.5	3317.3	3278.4	3297.3	3265.8	3249.1	3260.6
32.5°	3032.9	3021.3	2996.1	2981.4	3001.4	2961.5	2937.4	2937.4	2924.8	2896.4	2902.7
35°	2608.9	2591.1	2568.0	2555.4	2558.5	2505.0	2465.1	2473.5	2431.5	2424.2	2427.3
37.5°	2072.6	2043.3	2034.9	2008.6	2014.9	1967.7	1913.1	1914.2	1892.1	1869.0	1861.7
40°	1557.4	1552.1	1543.7	1521.7	1530.1	1478.7	1457.7	1458.7	1444.0	1427.2	1435.6
42.5°	1203.7	1186.9	1181.7	1174.3	1176.4	1168.0	1140.7	1143.9	1131.3	1127.1	1122.9
45°	978.1	960.2	947.6	953.9	953.9	944.5	934.0	940.3	934.0	925.6	929.8
47.5°	806.0	789.2	782.9	781.8	789.2	782.9	772.4	774.5	773.4	770.3	768.2
50°	643.3	639.1	633.9	630.7	633.9	631.8	622.3	627.6	630.7	620.2	623.4
52.5°	490.1	490.1	489.0	481.7	488.0	481.7	480.6	482.7	479.6	475.4	474.3
55°	358.9	355.8	350.5	349.5	351.6	349.5	347.4	348.4	350.5	340.0	340.0
57.5°	245.6	243.5	240.3	240.3	244.5	239.3	236.1	240.3	236.1	231.9	231.9
60°	157.4	156.4	153.2	153.2	153.2	152.2	149.0	150.1	152.2	145.9	146.9
62.5°	94.4	91.3	90.3	89.2	90.3	89.2	89.2	88.2	87.1	87.1	84.0
65°	51.4	49.3	47.2	48.3	48.3	47.2	47.2	47.2	45.1	44.1	43.0
67.5°	26.2	24.1	24.1	23.1	23.1	23.1	23.1	22.0	22.0	22.0	21.0
70°	16.8	15.7	14.7	14.7	14.7	13.6	13.6	13.6	13.6	13.6	12.6
72.5°	11.5	10.5	9.4	9.4	9.4	8.4	8.4	8.4	8.4	7.3	7.3
75°	8.4	7.3	6.3	6.3	6.3	5.2	5.2	5.2	5.2	5.2	5.2
77.5°	5.2	4.2	4.2	4.2	4.2	3.1	3.1	3.1	3.1	3.1	2.1
80°	3.1	3.1	2.1	2.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0
82.5°	2.1	2.1	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: P251198

CATALOG NUMBER: LSR8B60D010 EC8B60830 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3994.2	3994.2	3994.2	3994.2	3994.2	3994.2	3994.2	3994.2
2.5°	4122.2	4113.8	4119.0	4157.9	4141.1	4135.8	4091.7	4130.6
5°	4171.5	4165.2	4165.2	4209.3	4189.3	4185.1	4142.1	4175.7
7.5°	4217.7	4211.4	4212.4	4257.6	4241.8	4235.5	4192.5	4226.1
10°	4277.5	4273.3	4274.4	4317.4	4300.6	4294.3	4250.2	4284.8
12.5°	4313.2	4306.9	4306.9	4353.1	4334.2	4324.7	4282.7	4316.3
15°	4285.9	4276.5	4276.5	4322.6	4301.6	4288.0	4251.3	4282.7
17.5°	4192.5	4183.1	4183.1	4222.9	4207.2	4187.2	4149.5	4178.9
20°	4062.4	4050.8	4047.7	4093.8	4071.8	4054.0	4020.4	4048.7
22.5°	3915.4	3910.2	3900.8	3946.9	3927.0	3908.1	3872.4	3894.5
25°	3739.1	3730.7	3721.3	3766.4	3746.5	3727.6	3699.3	3717.1
27.5°	3519.8	3520.9	3515.6	3551.3	3531.4	3520.9	3486.2	3515.6
30°	3254.3	3242.8	3238.6	3280.5	3261.6	3248.0	3205.0	3233.3
32.5°	2908.0	2891.2	2869.2	2916.4	2883.8	2872.3	2835.6	2876.5
35°	2404.3	2399.0	2379.1	2418.9	2401.1	2380.1	2357.0	2391.7
37.5°	1858.6	1862.7	1860.6	1871.1	1860.6	1847.0	1821.8	1809.2
40°	1418.8	1408.3	1399.9	1418.8	1396.8	1396.8	1382.1	1397.8
42.5°	1112.4	1108.2	1118.7	1122.9	1110.3	1108.2	1106.1	1105.1
45°	918.3	918.3	920.4	924.6	920.4	918.3	912.0	907.8
47.5°	756.6	760.8	756.6	770.3	762.9	760.8	748.2	753.5
50°	612.9	607.6	612.9	617.1	618.1	611.8	605.5	608.7
52.5°	475.4	467.0	464.9	471.2	467.0	467.0	462.8	461.8
55°	334.8	337.9	332.7	337.9	335.8	332.7	329.5	333.7
57.5°	226.7	227.7	225.6	228.8	223.5	224.6	223.5	222.5
60°	146.9	142.7	142.7	145.9	140.6	140.6	139.6	139.6
62.5°	84.0	82.9	82.9	81.9	80.8	80.8	80.8	78.7
65°	43.0	42.0	40.9	40.9	40.9	40.9	39.9	39.9
67.5°	21.0	19.9	19.9	21.0	19.9	19.9	19.9	19.9
70°	12.6	12.6	11.5	12.6	11.5	11.5	11.5	11.5
72.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
75°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
77.5°	3.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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)