

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: P251204

Luminaire Tested: **LSR8B60D010 EC8B60850 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251204
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 EC8B60850 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6440.0 lumens
Efficiency: N/A
Efficacy: 108.2 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

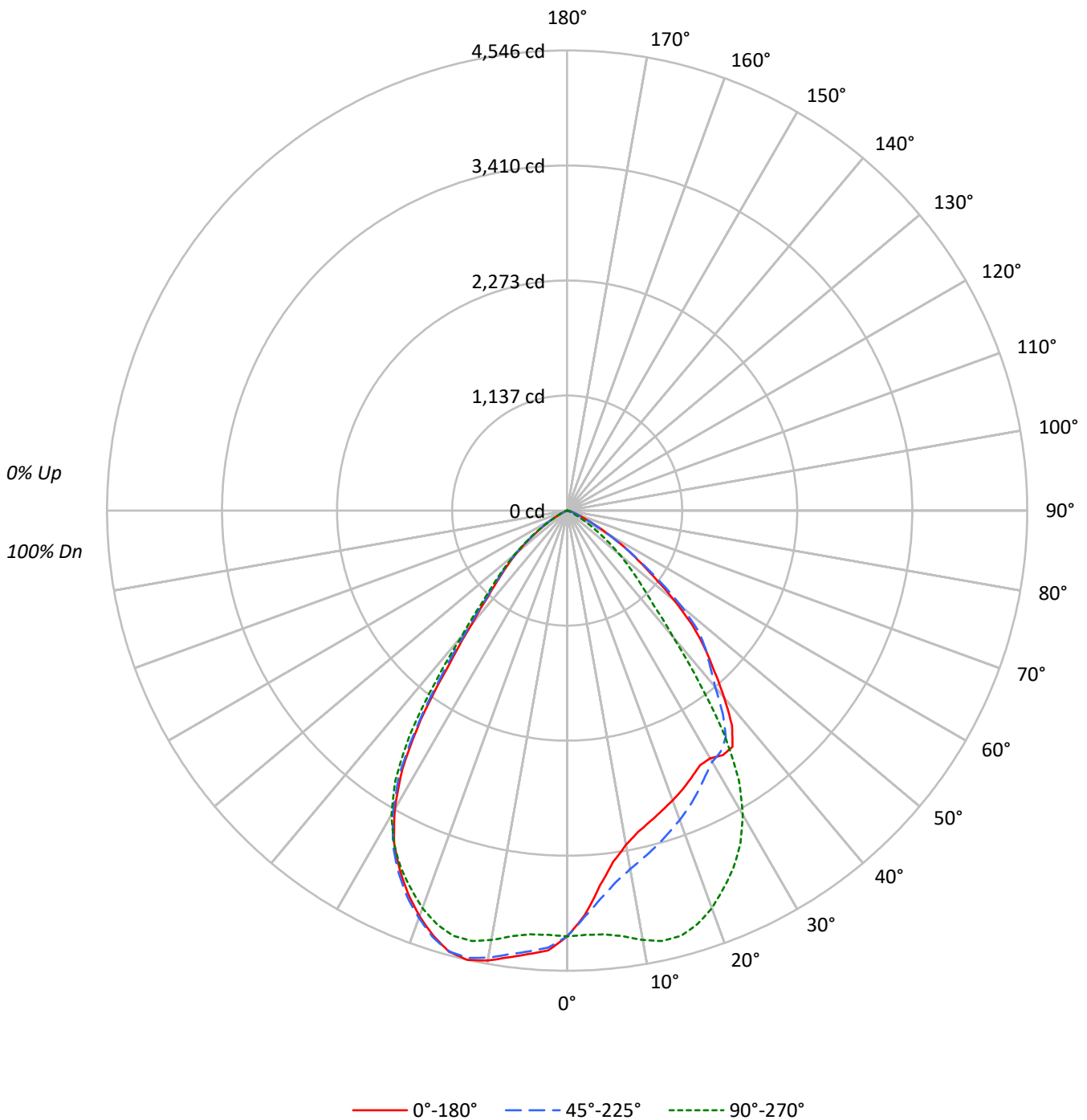
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	129731	129731	129731
5°	115103	130057	136149
10°	104942	134883	141321
15°	101420	138825	144013
20°	99972	137116	139944
25°	98990	132388	133215
30°	100603	123548	121266
35°	107233	102238	94833
40°	97181	65453	59270
45°	83878	44782	41699
50°	66178	32665	30755
55°	45939	20085	18897
60°	29245	10157	9066
65°	14600	4035	3065
70°	8069	1993	1100
75°	5790	1454	524
80°	4706	977	195
85°	5095	778	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.1	6.1
10°-20°	1132.6	17.6
20°-30°	1643.8	25.5
30°-40°	1619.0	25.1
40°-50°	1014.9	15.8
50°-60°	489.7	7.6
60°-70°	118.5	1.8
70°-80°	23.9	0.4
80°-90°	5.5	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°	3168.5	49.2
0°-40°	4787.5	74.3
0°-60°	6292.0	97.7
0°-90°	6440.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6440.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4207	4207	4207	4207	4207	
5°	3718	3845	4202	4372	4398	344
15°	3177	3427	4349	4508	4511	898
25°	2909	3061	3891	3944	3915	1346
35°	2849	2732	2716	2561	2519	1724
45°	1923	1937	1027	984	956	1470
55°	854	882	374	369	352	786
65°	200	198	55	48	42	228
75°	49	42	12	6	4	55
85°	14	11	2	0	0	15
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°	4207.1	4207.1	4207.1	4207.1	4207.1	4207.1	4207.1	4207.1	4207.1	4207.1	4207.1
2.5°	3999.3	3973.9	3926.4	3983.8	3983.8	3951.8	4015.9	3977.2	4008.2	4056.8	4013.7
5°	3718.5	3697.5	3657.7	3718.5	3726.3	3696.4	3773.8	3745.1	3790.4	3850.1	3844.6
7.5°	3496.4	3469.8	3433.3	3496.4	3508.5	3488.6	3562.7	3549.4	3609.1	3686.5	3699.7
10°	3351.5	3323.9	3291.9	3349.3	3358.2	3344.9	3420.1	3412.3	3470.9	3560.5	3595.8
12.5°	3248.7	3225.5	3190.2	3251.0	3260.9	3242.1	3312.9	3309.5	3370.3	3464.3	3508.5
15°	3176.9	3149.3	3117.2	3169.2	3182.4	3161.4	3228.8	3222.2	3284.1	3377.0	3426.7
17.5°	3109.5	3084.0	3050.9	3099.5	3112.8	3090.7	3157.0	3145.9	3199.0	3287.4	3338.3
20°	3046.5	3018.8	2989.0	3038.7	3046.5	3021.0	3087.4	3073.0	3120.5	3202.3	3252.1
22.5°	2981.2	2952.5	2921.6	2970.2	2977.9	2952.5	3013.3	2996.7	3040.9	3115.0	3160.3
25°	2909.4	2882.9	2851.9	2897.2	2903.9	2876.2	2940.3	2919.3	2958.0	3023.2	3060.8
27.5°	2837.5	2812.1	2777.8	2824.3	2827.6	2801.1	2859.6	2830.9	2863.0	2922.7	2954.7
30°	2825.4	2796.6	2761.3	2798.9	2800.0	2765.7	2821.0	2786.7	2804.4	2848.6	2867.4
32.5°	2864.1	2835.3	2798.9	2829.8	2826.5	2788.9	2842.0	2800.0	2805.5	2828.7	2824.3
35°	2848.6	2814.3	2771.2	2804.4	2804.4	2759.1	2812.1	2762.4	2756.8	2760.2	2732.5
37.5°	2672.8	2646.3	2605.4	2637.5	2634.1	2599.9	2640.8	2599.9	2581.1	2573.4	2523.6
40°	2414.2	2382.1	2351.2	2385.4	2388.8	2352.3	2405.3	2358.9	2353.4	2331.3	2272.7
42.5°	2152.2	2141.1	2111.3	2140.0	2155.5	2124.6	2168.8	2146.7	2150.0	2144.5	2089.2
45°	1923.4	1904.6	1882.5	1915.6	1925.6	1910.1	1954.3	1941.1	1954.3	1982.0	1936.6
47.5°	1676.9	1658.1	1633.8	1669.1	1686.8	1658.1	1695.7	1691.2	1711.1	1758.7	1754.3
50°	1379.5	1366.3	1361.8	1366.3	1377.3	1364.1	1390.6	1391.7	1405.0	1470.2	1474.6
52.5°	1092.1	1088.8	1073.3	1087.7	1087.7	1066.7	1093.2	1081.1	1094.3	1138.6	1167.3
55°	854.5	851.2	841.2	854.5	840.1	832.4	840.1	827.9	818.0	852.3	882.1
57.5°	665.4	654.4	642.2	647.8	646.7	630.1	638.9	624.5	616.8	629.0	655.5
60°	474.2	470.9	459.8	465.4	469.8	457.6	466.5	459.8	446.6	456.5	457.6
62.5°	315.0	317.2	310.6	311.7	308.4	306.2	311.7	315.0	311.7	307.3	308.4
65°	200.1	199.0	197.9	199.0	201.2	196.8	200.1	202.3	199.0	199.0	197.9
67.5°	132.6	129.3	126.0	128.2	130.4	127.1	130.4	129.3	130.4	129.3	126.0
70°	89.5	88.4	87.3	88.4	88.4	86.2	88.4	87.3	88.4	87.3	84.0
72.5°	65.2	65.2	64.1	65.2	65.2	63.0	64.1	61.9	63.0	61.9	59.7
75°	48.6	48.6	47.5	48.6	47.5	46.4	47.5	46.4	44.2	44.2	42.0
77.5°	35.4	35.4	35.4	35.4	35.4	34.3	34.3	33.2	32.1	31.0	31.0
80°	26.5	25.4	25.4	25.4	25.4	24.3	25.4	24.3	23.2	22.1	21.0
82.5°	18.8	19.9	18.8	18.8	18.8	17.7	18.8	17.7	17.7	16.6	14.4
85°	14.4	14.4	14.4	14.4	14.4	13.3	13.3	13.3	12.2	12.2	11.1
87.5°	7.7	7.7	7.7	8.8	7.7	7.7	7.7	6.6	6.6	5.5	5.5
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°	4207.1	4207.1	4207.1	4207.1	4207.1	4207.1	4207.1	4207.1	4207.1	4207.1	4207.1
2.5°	4071.2	4076.7	4064.5	4083.3	4156.3	4097.7	4122.0	4129.7	4185.0	4195.0	4188.3
5°	3916.4	3940.7	3956.2	3998.2	4078.9	4036.9	4080.0	4107.6	4178.4	4201.6	4207.1
7.5°	3794.8	3845.7	3883.2	3951.8	4046.8	4014.8	4080.0	4125.3	4211.5	4241.4	4255.8
10°	3704.2	3781.5	3846.8	3940.7	4047.9	4026.9	4112.1	4176.2	4272.3	4307.7	4325.4
12.5°	3635.6	3729.6	3816.9	3936.3	4052.4	4042.4	4145.2	4218.2	4319.9	4355.2	4376.2
15°	3560.5	3668.8	3770.5	3904.2	4029.2	4026.9	4137.5	4214.9	4318.8	4348.6	4368.5
17.5°	3470.9	3587.0	3698.6	3843.4	3967.3	3969.5	4081.1	4157.4	4259.1	4283.4	4296.7
20°	3380.3	3495.2	3606.9	3756.1	3877.7	3881.0	3990.5	4061.2	4158.5	4178.4	4181.7
22.5°	3284.1	3391.3	3503.0	3651.1	3768.3	3770.5	3878.8	3945.1	4028.0	4038.0	4046.8
25°	3174.7	3279.7	3384.7	3531.7	3643.4	3650.0	3748.4	3807.0	3883.2	3891.0	3894.3
27.5°	3060.8	3147.1	3247.6	3373.7	3486.4	3482.0	3574.8	3641.2	3709.7	3705.3	3704.2
30°	2945.9	3017.7	3079.6	3201.2	3284.1	3287.4	3374.8	3406.8	3478.7	3469.8	3468.7
32.5°	2865.2	2884.0	2900.5	2962.5	3040.9	3013.3	3073.0	3112.8	3162.5	3159.2	3160.3
35°	2717.1	2682.8	2633.0	2641.9	2689.4	2646.3	2678.4	2677.3	2728.1	2715.9	2730.3
37.5°	2463.9	2366.6	2256.1	2193.1	2201.9	2147.8	2136.7	2163.3	2180.9	2146.7	2158.8
40°	2194.2	2050.5	1878.1	1734.4	1726.6	1659.2	1647.0	1620.5	1654.8	1626.0	1634.9
42.5°	1995.2	1805.1	1578.5	1403.8	1366.3	1309.9	1276.7	1272.3	1282.3	1262.4	1256.8
45°	1842.7	1640.4	1380.6	1180.6	1138.6	1077.8	1044.6	1032.4	1033.5	1026.9	1021.4
47.5°	1663.6	1460.2	1197.1	992.6	945.1	887.6	854.5	846.7	851.2	842.3	835.7
50°	1416.0	1233.6	993.7	806.9	764.9	722.9	696.4	688.7	687.6	680.9	676.5
52.5°	1149.6	998.2	790.4	634.5	596.9	556.0	537.2	527.3	528.4	521.7	515.1
55°	889.8	795.9	612.4	479.7	445.5	413.4	395.7	383.6	380.3	373.6	370.3
57.5°	662.1	599.1	458.7	346.0	326.1	295.1	277.5	263.1	260.9	257.6	256.5
60°	464.3	418.9	322.8	246.5	223.3	204.5	186.8	172.4	165.8	164.7	161.4
62.5°	300.7	273.0	212.2	164.7	147.0	133.8	116.1	106.1	101.7	97.3	98.4
65°	186.8	165.8	132.6	106.1	96.2	86.2	73.0	64.1	59.7	55.3	56.4
67.5°	116.1	103.9	84.0	68.5	61.9	54.2	44.2	37.6	34.3	31.0	28.7
70°	78.5	67.4	57.5	48.6	44.2	38.7	32.1	26.5	24.3	22.1	19.9
72.5°	55.3	49.7	42.0	36.5	33.2	28.7	24.3	21.0	18.8	16.6	14.4
75°	39.8	35.4	31.0	26.5	24.3	22.1	18.8	16.6	14.4	12.2	9.9
77.5°	28.7	25.4	22.1	19.9	18.8	15.5	13.3	12.2	11.1	8.8	6.6
80°	19.9	17.7	14.4	13.3	13.3	11.1	9.9	8.8	7.7	5.5	4.4
82.5°	13.3	12.2	11.1	9.9	8.8	7.7	7.7	5.5	4.4	3.3	2.2
85°	9.9	8.8	7.7	6.6	6.6	5.5	4.4	3.3	3.3	2.2	1.1
87.5°	5.5	5.5	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°	4207.1	4207.1	4207.1	4207.1	4207.1	4207.1	4207.1	4207.1	4207.1	4207.1	4207.1
2.5°	4244.7	4248.0	4266.8	4252.4	4288.9	4315.4	4302.2	4332.0	4322.1	4319.9	4354.1
5°	4273.4	4281.2	4306.6	4293.3	4333.1	4361.9	4348.6	4381.8	4371.8	4369.6	4405.0
7.5°	4328.7	4336.5	4358.6	4347.5	4389.5	4414.9	4398.4	4434.8	4421.6	4420.5	4454.7
10°	4398.4	4409.4	4428.2	4417.1	4455.8	4477.9	4461.4	4496.7	4484.6	4479.0	4516.6
12.5°	4450.3	4458.0	4476.8	4468.0	4505.6	4522.2	4507.8	4542.1	4526.6	4522.2	4555.3
15°	4438.1	4445.9	4461.4	4453.6	4489.0	4504.5	4485.7	4523.3	4507.8	4498.9	4528.8
17.5°	4360.8	4365.2	4376.2	4368.5	4406.1	4416.0	4395.0	4432.6	4418.3	4402.8	4431.5
20°	4246.9	4244.7	4251.3	4248.0	4279.0	4284.5	4271.2	4298.9	4282.3	4273.4	4290.0
22.5°	4105.4	4103.2	4107.6	4098.8	4129.7	4133.1	4113.2	4146.3	4129.7	4113.2	4140.8
25°	3948.5	3936.3	3934.1	3937.4	3958.4	3961.7	3940.7	3965.0	3944.0	3930.8	3957.3
27.5°	3755.0	3739.5	3736.2	3739.5	3760.5	3745.1	3727.4	3745.1	3724.1	3711.9	3728.5
30°	3516.3	3494.1	3484.2	3477.6	3499.7	3494.1	3453.2	3473.1	3440.0	3422.3	3434.5
32.5°	3194.6	3182.4	3155.9	3140.4	3161.4	3119.4	3094.0	3094.0	3080.7	3050.9	3057.5
35°	2748.0	2729.2	2704.9	2691.6	2694.9	2638.6	2596.6	2605.4	2561.2	2553.5	2556.8
37.5°	2183.1	2152.2	2143.4	2115.7	2122.4	2072.6	2015.1	2016.2	1993.0	1968.7	1961.0
40°	1640.4	1634.9	1626.0	1602.8	1611.7	1557.5	1535.4	1536.5	1521.0	1503.3	1512.2
42.5°	1267.9	1250.2	1244.7	1236.9	1239.1	1230.3	1201.6	1204.9	1191.6	1187.2	1182.8
45°	1030.2	1011.4	998.2	1004.8	1004.8	994.9	983.8	990.4	983.8	975.0	979.4
47.5°	848.9	831.3	824.6	823.5	831.3	824.6	813.6	815.8	814.7	811.4	809.1
50°	677.6	673.2	667.7	664.3	667.7	665.4	655.5	661.0	664.3	653.3	656.6
52.5°	516.2	516.2	515.1	507.4	514.0	507.4	506.3	508.5	505.2	500.7	499.6
55°	378.0	374.7	369.2	368.1	370.3	368.1	365.9	367.0	369.2	358.1	358.1
57.5°	258.7	256.5	253.1	253.1	257.6	252.0	248.7	253.1	248.7	244.3	244.3
60°	165.8	164.7	161.4	161.4	161.4	160.3	157.0	158.1	160.3	153.6	154.8
62.5°	99.5	96.2	95.1	94.0	95.1	94.0	94.0	92.9	91.7	91.7	88.4
65°	54.2	52.0	49.7	50.8	50.8	49.7	49.7	49.7	47.5	46.4	45.3
67.5°	27.6	25.4	25.4	24.3	24.3	24.3	24.3	23.2	23.2	23.2	22.1
70°	17.7	16.6	15.5	15.5	15.5	14.4	14.4	14.4	14.4	14.4	13.3
72.5°	12.2	11.1	9.9	9.9	9.9	8.8	8.8	8.8	8.8	7.7	7.7
75°	8.8	7.7	6.6	6.6	6.6	5.5	5.5	5.5	5.5	5.5	5.5
77.5°	5.5	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: P251204

CATALOG NUMBER: LSR8B60D010 EC8B60850 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4207.1	4207.1	4207.1	4207.1	4207.1	4207.1	4207.1	4207.1
2.5°	4342.0	4333.1	4338.7	4379.6	4361.9	4356.3	4309.9	4350.8
5°	4393.9	4387.3	4387.3	4433.7	4412.7	4408.3	4363.0	4398.4
7.5°	4442.6	4435.9	4437.0	4484.6	4468.0	4461.4	4416.0	4451.4
10°	4505.6	4501.2	4502.3	4547.6	4529.9	4523.3	4476.8	4513.3
12.5°	4543.2	4536.5	4536.5	4585.2	4565.3	4555.3	4511.1	4546.5
15°	4514.4	4504.5	4504.5	4553.1	4531.0	4516.6	4477.9	4511.1
17.5°	4416.0	4406.1	4406.1	4448.1	4431.5	4410.5	4370.7	4401.7
20°	4279.0	4266.8	4263.5	4312.1	4288.9	4270.1	4234.8	4264.6
22.5°	4124.2	4118.7	4108.7	4157.4	4136.4	4116.5	4078.9	4102.1
25°	3938.5	3929.7	3919.7	3967.3	3946.2	3926.4	3896.5	3915.3
27.5°	3707.5	3708.6	3703.1	3740.6	3719.6	3708.6	3672.1	3703.1
30°	3427.8	3415.7	3411.2	3455.5	3435.6	3421.2	3375.9	3405.7
32.5°	3063.0	3045.4	3022.1	3071.9	3037.6	3025.5	2986.8	3029.9
35°	2532.5	2526.9	2505.9	2547.9	2529.1	2507.0	2482.7	2519.2
37.5°	1957.6	1962.1	1959.9	1970.9	1959.9	1945.5	1919.0	1905.7
40°	1494.5	1483.4	1474.6	1494.5	1471.3	1471.3	1455.8	1472.4
42.5°	1171.7	1167.3	1178.3	1182.8	1169.5	1167.3	1165.1	1164.0
45°	967.2	967.2	969.4	973.9	969.4	967.2	960.6	956.2
47.5°	797.0	801.4	797.0	811.4	803.6	801.4	788.1	793.7
50°	645.5	640.0	645.5	650.0	651.1	644.4	637.8	641.1
52.5°	500.7	491.9	489.7	496.3	491.9	491.9	487.5	486.4
55°	352.6	355.9	350.4	355.9	353.7	350.4	347.1	351.5
57.5°	238.8	239.9	237.7	241.0	235.4	236.6	235.4	234.3
60°	154.8	150.3	150.3	153.6	148.1	148.1	147.0	147.0
62.5°	88.4	87.3	87.3	86.2	85.1	85.1	85.1	82.9
65°	45.3	44.2	43.1	43.1	43.1	43.1	42.0	42.0
67.5°	22.1	21.0	21.0	22.1	21.0	21.0	21.0	21.0
70°	13.3	13.3	12.2	13.3	12.2	12.2	12.2	12.2
72.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
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)