

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: P251200

Luminaire Tested: **LSR8B60D010 EC8B60835 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251200
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 EC8B60835 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6358.0 lumens
Efficiency: N/A
Efficacy: 106.9 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

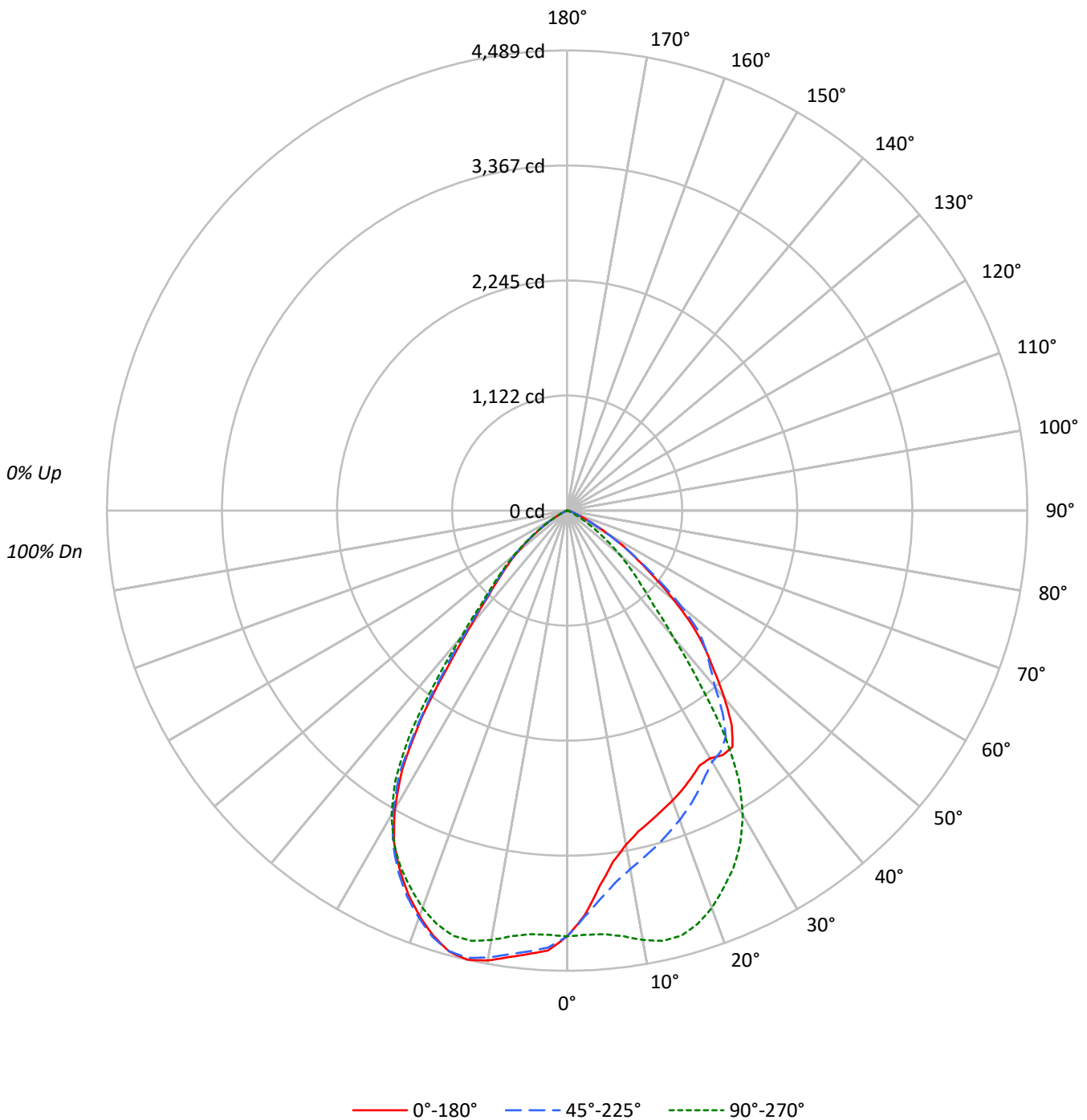
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	128082	128082	128082
5°	113639	128401	134415
10°	103608	133167	139520
15°	100127	137057	142180
20°	98699	135370	138162
25°	97727	130700	131517
30°	99321	121974	119720
35°	105867	100939	93625
40°	95941	64620	58513
45°	82809	44211	41167
50°	65339	32252	30367
55°	45353	19833	18655
60°	28875	10028	8949
65°	14411	3984	3028
70°	7970	1965	1082
75°	5719	1430	524
80°	4653	977	195
85°	5024	778	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.1	6.1
10°-20°	1118.1	17.6
20°-30°	1622.9	25.5
30°-40°	1598.4	25.1
40°-50°	1001.9	15.8
50°-60°	483.5	7.6
60°-70°	117.0	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°	3128.1	49.2
0°-40°	4726.5	74.3
0°-60°	6211.9	97.7
0°-90°	6358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6358.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4154	4154	4154	4154	4154	
5°	3671	3796	4148	4316	4342	340
15°	3136	3383	4293	4450	4454	887
25°	2872	3022	3841	3894	3865	1329
35°	2812	2698	2681	2529	2487	1702
45°	1899	1912	1014	971	944	1452
55°	844	871	369	364	347	776
65°	198	195	55	47	42	225
75°	48	42	12	6	4	54
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°	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6
2.5°	3948.4	3923.3	3876.4	3933.1	3933.1	3901.5	3964.8	3926.6	3957.1	4005.1	3962.6
5°	3671.2	3650.5	3611.2	3671.2	3678.8	3649.4	3725.8	3697.4	3742.1	3801.1	3795.6
7.5°	3451.8	3425.6	3389.6	3451.8	3463.8	3444.2	3517.3	3504.2	3563.1	3639.5	3652.6
10°	3308.9	3281.6	3249.9	3306.7	3315.4	3302.3	3376.5	3368.9	3426.7	3515.1	3550.1
12.5°	3207.4	3184.5	3149.5	3209.6	3219.4	3200.8	3270.7	3267.4	3327.4	3420.2	3463.8
15°	3136.4	3109.2	3077.5	3128.8	3141.9	3121.2	3187.7	3181.2	3242.3	3334.0	3383.1
17.5°	3069.9	3044.8	3012.0	3060.1	3073.1	3051.3	3116.8	3105.9	3158.3	3245.6	3295.8
20°	3007.7	2980.4	2950.9	3000.0	3007.7	2982.6	3048.0	3033.9	3080.8	3161.5	3210.7
22.5°	2943.3	2914.9	2884.4	2932.4	2940.0	2914.9	2974.9	2958.6	3002.2	3075.3	3120.1
25°	2872.3	2846.2	2815.6	2860.3	2866.9	2839.6	2902.9	2882.2	2920.4	2984.8	3021.9
27.5°	2801.4	2776.3	2742.5	2788.3	2791.6	2765.4	2823.2	2794.9	2826.5	2885.4	2917.1
30°	2789.4	2761.0	2726.1	2763.2	2764.3	2730.5	2785.0	2751.2	2768.7	2812.3	2830.9
32.5°	2827.6	2799.2	2763.2	2793.8	2790.5	2753.4	2805.8	2764.3	2769.8	2792.7	2788.3
35°	2812.3	2778.5	2735.9	2768.7	2768.7	2723.9	2776.3	2727.2	2721.7	2725.0	2697.7
37.5°	2638.8	2612.6	2572.2	2603.9	2600.6	2566.8	2607.2	2566.8	2548.2	2540.6	2491.5
40°	2383.4	2351.8	2321.2	2355.1	2358.3	2322.3	2374.7	2328.9	2323.4	2301.6	2243.7
42.5°	2124.8	2113.9	2084.4	2112.8	2128.1	2097.5	2141.2	2119.3	2122.6	2117.2	2062.6
45°	1898.9	1880.3	1858.5	1891.3	1901.1	1885.8	1929.4	1916.4	1929.4	1956.7	1912.0
47.5°	1655.5	1637.0	1613.0	1647.9	1665.3	1637.0	1674.1	1669.7	1689.4	1736.3	1731.9
50°	1362.0	1348.9	1344.5	1348.9	1359.8	1346.7	1372.9	1374.0	1387.1	1451.5	1455.8
52.5°	1078.2	1074.9	1059.7	1073.9	1073.9	1053.1	1079.3	1067.3	1080.4	1124.1	1152.4
55°	843.6	840.3	830.5	843.6	829.4	821.8	829.4	817.4	807.6	841.4	870.9
57.5°	657.0	646.1	634.1	639.5	638.4	622.1	630.8	616.6	609.0	621.0	647.2
60°	468.2	464.9	454.0	459.4	463.8	451.8	460.5	454.0	440.9	450.7	451.8
62.5°	311.0	313.2	306.7	307.8	304.5	302.3	307.8	311.0	307.8	303.4	304.5
65°	197.5	196.4	195.3	196.4	198.6	194.3	197.5	199.7	196.4	196.4	195.3
67.5°	131.0	127.7	124.4	126.6	128.8	125.5	128.8	127.7	128.8	127.7	124.4
70°	88.4	87.3	86.2	87.3	87.3	85.1	87.3	86.2	87.3	86.2	82.9
72.5°	64.4	64.4	63.3	64.4	64.4	62.2	63.3	61.1	62.2	61.1	58.9
75°	48.0	48.0	46.9	48.0	46.9	45.8	46.9	45.8	43.7	43.7	41.5
77.5°	34.9	34.9	34.9	34.9	34.9	33.8	33.8	32.7	31.6	30.6	30.6
80°	26.2	25.1	25.1	25.1	25.1	24.0	25.1	24.0	22.9	21.8	20.7
82.5°	18.6	19.6	18.6	18.6	18.6	17.5	18.6	17.5	17.5	16.4	14.2
85°	14.2	14.2	14.2	14.2	14.2	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	5.5	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°	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6
2.5°	4019.3	4024.8	4012.8	4031.3	4103.4	4045.5	4069.5	4077.2	4131.7	4141.5	4135.0
5°	3866.5	3890.5	3905.8	3947.3	4027.0	3985.5	4028.1	4055.3	4125.2	4148.1	4153.6
7.5°	3746.5	3796.7	3833.8	3901.5	3995.3	3963.7	4028.1	4072.8	4157.9	4187.4	4201.6
10°	3657.0	3733.4	3797.8	3890.5	3996.4	3975.7	4059.7	4123.0	4217.9	4252.9	4270.3
12.5°	3589.3	3682.1	3768.3	3886.2	4000.8	3990.9	4092.4	4164.5	4264.9	4299.8	4320.5
15°	3515.1	3622.1	3722.5	3854.5	3977.9	3975.7	4084.8	4161.2	4263.8	4293.2	4312.9
17.5°	3426.7	3541.3	3651.5	3794.5	3916.7	3918.9	4029.1	4104.4	4204.8	4228.9	4241.9
20°	3337.2	3450.7	3561.0	3708.3	3828.3	3831.6	3939.7	4009.5	4105.5	4125.2	4128.5
22.5°	3242.3	3348.2	3458.4	3604.6	3720.3	3722.5	3829.4	3894.9	3976.8	3986.6	3995.3
25°	3134.3	3237.9	3341.6	3486.8	3597.0	3603.5	3700.7	3758.5	3833.8	3841.4	3844.7
27.5°	3021.9	3107.0	3206.3	3330.7	3442.0	3437.6	3529.3	3594.8	3662.5	3658.1	3657.0
30°	2908.4	2979.3	3040.4	3160.5	3242.3	3245.6	3331.8	3363.4	3434.4	3425.6	3424.6
32.5°	2828.7	2847.2	2863.6	2924.7	3002.2	2974.9	3033.9	3073.1	3122.3	3119.0	3120.1
35°	2682.5	2648.6	2599.5	2608.2	2655.2	2612.6	2644.3	2643.2	2693.4	2681.4	2695.6
37.5°	2432.5	2336.5	2227.4	2165.2	2173.9	2120.4	2109.5	2135.7	2153.2	2119.3	2131.3
40°	2166.3	2024.4	1854.1	1712.3	1704.6	1638.1	1626.1	1599.9	1633.7	1605.3	1614.1
42.5°	1969.8	1782.1	1558.4	1386.0	1348.9	1293.2	1260.5	1256.1	1265.9	1246.3	1240.8
45°	1819.2	1619.5	1363.1	1165.5	1124.1	1064.0	1031.3	1019.3	1020.4	1013.8	1008.4
47.5°	1642.4	1441.6	1181.9	980.0	933.1	876.3	843.6	835.9	840.3	831.6	825.0
50°	1398.0	1217.9	981.1	796.7	755.2	713.7	687.5	679.9	678.8	672.3	667.9
52.5°	1135.0	985.5	780.3	626.4	589.3	548.9	530.4	520.6	521.6	515.1	508.6
55°	878.5	785.7	604.6	473.6	439.8	408.2	390.7	378.7	375.4	368.9	365.6
57.5°	653.7	591.5	452.9	341.6	321.9	291.4	273.9	259.7	257.6	254.3	253.2
60°	458.4	413.6	318.7	243.4	220.4	201.9	184.4	170.2	163.7	162.6	159.3
62.5°	296.8	269.6	209.5	162.6	145.1	132.0	114.6	104.8	100.4	96.0	97.1
65°	184.4	163.7	131.0	104.8	94.9	85.1	72.0	63.3	58.9	54.6	55.7
67.5°	114.6	102.6	82.9	67.7	61.1	53.5	43.7	37.1	33.8	30.6	28.4
70°	77.5	66.6	56.7	48.0	43.7	38.2	31.6	26.2	24.0	21.8	19.6
72.5°	54.6	49.1	41.5	36.0	32.7	28.4	24.0	20.7	18.6	16.4	14.2
75°	39.3	34.9	30.6	26.2	24.0	21.8	18.6	16.4	14.2	12.0	9.8
77.5°	28.4	25.1	21.8	19.6	18.6	15.3	13.1	12.0	10.9	8.7	6.5
80°	19.6	17.5	14.2	13.1	13.1	10.9	9.8	8.7	7.6	5.5	4.4
82.5°	13.1	12.0	10.9	9.8	8.7	7.6	7.6	5.5	4.4	3.3	2.2
85°	9.8	8.7	7.6	6.5	6.5	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°	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6
2.5°	4190.7	4193.9	4212.5	4198.3	4234.3	4260.5	4247.4	4276.9	4267.0	4264.9	4298.7
5°	4219.0	4226.7	4251.8	4238.7	4278.0	4306.3	4293.2	4326.0	4316.2	4314.0	4348.9
7.5°	4273.6	4281.2	4303.1	4292.1	4333.6	4358.7	4342.4	4378.4	4365.3	4364.2	4398.0
10°	4342.4	4353.3	4371.8	4360.9	4399.1	4420.9	4404.6	4439.5	4427.5	4422.0	4459.1
12.5°	4393.6	4401.3	4419.8	4411.1	4448.2	4464.6	4450.4	4484.2	4468.9	4464.6	4497.3
15°	4381.6	4389.3	4404.6	4396.9	4431.8	4447.1	4428.6	4465.7	4450.4	4441.7	4471.1
17.5°	4305.2	4309.6	4320.5	4312.9	4350.0	4359.8	4339.1	4376.2	4362.0	4346.7	4375.1
20°	4192.8	4190.7	4197.2	4193.9	4224.5	4229.9	4216.8	4244.1	4227.8	4219.0	4235.4
22.5°	4053.2	4051.0	4055.3	4046.6	4077.2	4080.4	4060.8	4093.5	4077.2	4060.8	4088.1
25°	3898.2	3886.2	3884.0	3887.3	3908.0	3911.3	3890.5	3914.6	3893.8	3880.7	3906.9
27.5°	3707.2	3691.9	3688.7	3691.9	3712.7	3697.4	3679.9	3697.4	3676.6	3664.6	3681.0
30°	3471.5	3449.7	3439.8	3433.3	3455.1	3449.7	3409.3	3428.9	3396.2	3378.7	3390.7
32.5°	3153.9	3141.9	3115.7	3100.4	3121.2	3079.7	3054.6	3054.6	3041.5	3012.0	3018.6
35°	2713.0	2694.5	2670.5	2657.4	2660.6	2605.0	2563.5	2572.2	2528.6	2520.9	2524.2
37.5°	2155.4	2124.8	2116.1	2088.8	2095.3	2046.2	1989.5	1990.6	1967.6	1943.6	1936.0
40°	1619.5	1614.1	1605.3	1582.4	1591.1	1537.7	1515.8	1516.9	1501.7	1484.2	1492.9
42.5°	1251.7	1234.3	1228.8	1221.2	1223.4	1214.6	1186.3	1189.5	1176.4	1172.1	1167.7
45°	1017.1	998.6	985.5	992.0	992.0	982.2	971.3	977.8	971.3	962.5	966.9
47.5°	838.1	820.7	814.1	813.0	820.7	814.1	803.2	805.4	804.3	801.0	798.8
50°	669.0	664.6	659.2	655.9	659.2	657.0	647.2	652.6	655.9	645.0	648.2
52.5°	509.6	509.6	508.6	500.9	507.5	500.9	499.8	502.0	498.7	494.4	493.3
55°	373.2	370.0	364.5	363.4	365.6	363.4	361.2	362.3	364.5	353.6	353.6
57.5°	255.4	253.2	249.9	249.9	254.3	248.8	245.5	249.9	245.5	241.2	241.2
60°	163.7	162.6	159.3	159.3	159.3	158.2	155.0	156.1	158.2	151.7	152.8
62.5°	98.2	94.9	93.9	92.8	93.9	92.8	92.8	91.7	90.6	90.6	87.3
65°	53.5	51.3	49.1	50.2	50.2	49.1	49.1	49.1	46.9	45.8	44.7
67.5°	27.3	25.1	25.1	24.0	24.0	24.0	24.0	22.9	22.9	22.9	21.8
70°	17.5	16.4	15.3	15.3	15.3	14.2	14.2	14.2	14.2	14.2	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	5.5	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: P251200

CATALOG NUMBER: LSR8B60D010 EC8B60835 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6
2.5°	4286.7	4278.0	4283.4	4323.8	4306.3	4300.9	4255.0	4295.4
5°	4338.0	4331.4	4331.4	4377.3	4356.5	4352.2	4307.4	4342.4
7.5°	4386.0	4379.5	4380.5	4427.5	4411.1	4404.6	4359.8	4394.7
10°	4448.2	4443.8	4444.9	4489.7	4472.2	4465.7	4419.8	4455.8
12.5°	4485.3	4478.8	4478.8	4526.8	4507.1	4497.3	4453.7	4488.6
15°	4456.9	4447.1	4447.1	4495.1	4473.3	4459.1	4420.9	4453.7
17.5°	4359.8	4350.0	4350.0	4391.5	4375.1	4354.4	4315.1	4345.6
20°	4224.5	4212.5	4209.2	4257.2	4234.3	4215.8	4180.8	4210.3
22.5°	4071.7	4066.2	4056.4	4104.4	4083.7	4064.1	4027.0	4049.9
25°	3888.4	3879.6	3869.8	3916.7	3896.0	3876.4	3846.9	3865.4
27.5°	3660.3	3661.4	3655.9	3693.0	3672.3	3661.4	3625.4	3655.9
30°	3384.2	3372.2	3367.8	3411.5	3391.8	3377.6	3332.9	3362.3
32.5°	3024.0	3006.6	2983.7	3032.8	2998.9	2986.9	2948.7	2991.3
35°	2500.2	2494.8	2474.0	2515.5	2496.9	2475.1	2451.1	2487.1
37.5°	1932.7	1937.1	1934.9	1945.8	1934.9	1920.7	1894.5	1881.4
40°	1475.5	1464.5	1455.8	1475.5	1452.5	1452.5	1437.3	1453.6
42.5°	1156.8	1152.4	1163.3	1167.7	1154.6	1152.4	1150.2	1149.2
45°	954.9	954.9	957.1	961.5	957.1	954.9	948.4	944.0
47.5°	786.8	791.2	786.8	801.0	793.4	791.2	778.1	783.6
50°	637.3	631.9	637.3	641.7	642.8	636.2	629.7	633.0
52.5°	494.4	485.6	483.5	490.0	485.6	485.6	481.3	480.2
55°	348.1	351.4	345.9	351.4	349.2	345.9	342.7	347.0
57.5°	235.7	236.8	234.6	237.9	232.5	233.5	232.5	231.4
60°	152.8	148.4	148.4	151.7	146.2	146.2	145.1	145.1
62.5°	87.3	86.2	86.2	85.1	84.0	84.0	84.0	81.8
65°	44.7	43.7	42.6	42.6	42.6	42.6	41.5	41.5
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)