

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: P251212

Luminaire Tested: **LSR8B60D010 EC8B60940 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251212
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 EC8B60940 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5663.0 lumens
Efficiency: N/A
Efficacy: 95.2 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

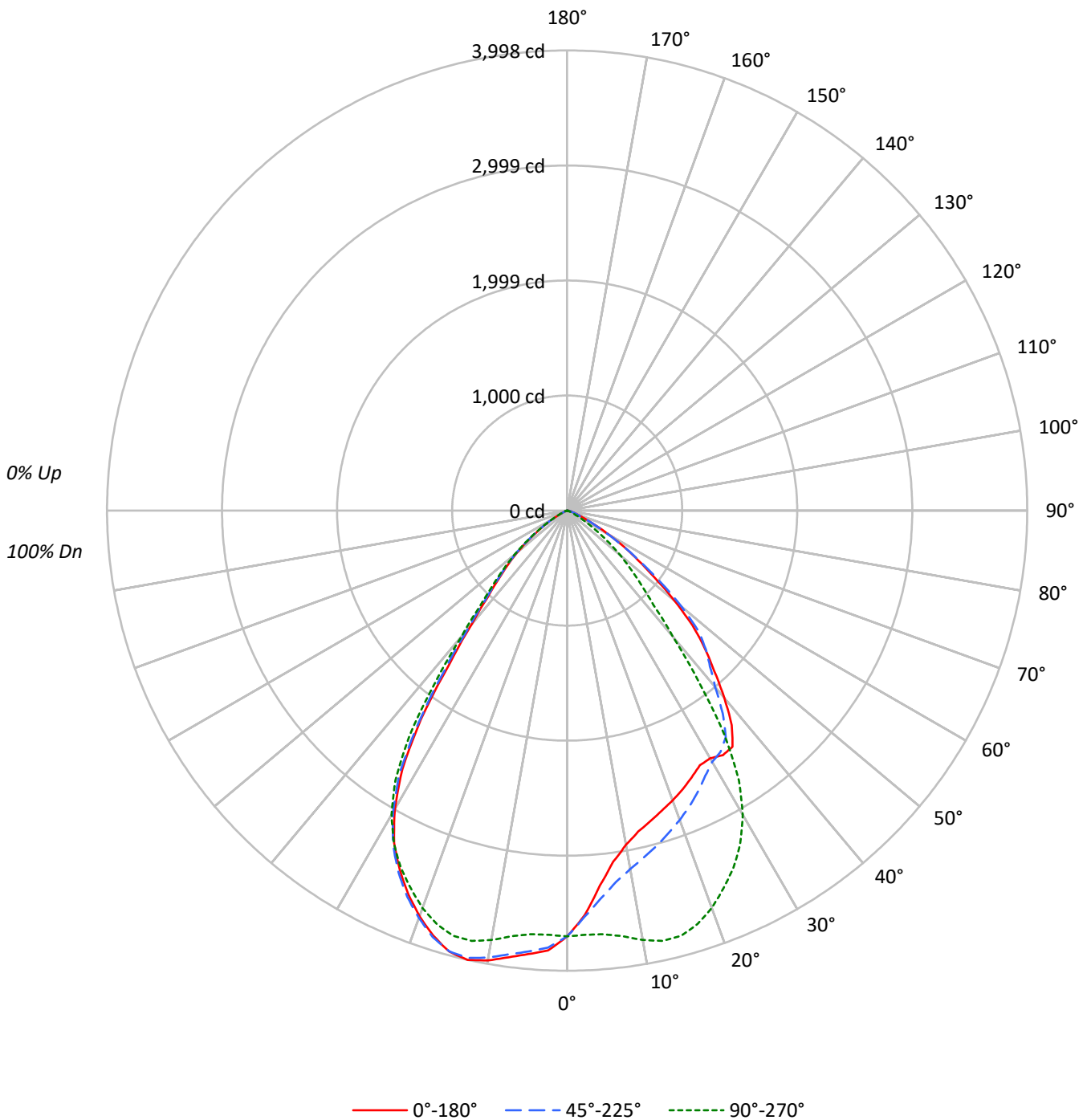
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	114079	114079	114079
5°	101217	114366	119721
10°	92283	118610	124271
15°	89183	122075	126637
20°	87909	120573	123061
25°	87047	116413	117142
30°	88465	108643	106635
35°	94295	89906	83389
40°	85455	57555	52117
45°	73756	39379	36667
50°	58196	28726	27047
55°	40396	17661	16618
60°	25717	8930	7974
65°	12835	3546	2692
70°	7096	1749	965
75°	5099	1275	465
80°	4138	870	178
85°	4458	672	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.8	6.1
10°-20°	995.9	17.6
20°-30°	1445.5	25.5
30°-40°	1423.7	25.1
40°-50°	892.4	15.8
50°-60°	430.6	7.6
60°-70°	104.2	1.8
70°-80°	21.1	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°	2786.2	49.2
0°-40°	4209.8	74.3
0°-60°	5532.9	97.7
0°-90°	5663.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5663.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3700	3700	3700	3700	3700	
5°	3270	3381	3695	3844	3868	303
15°	2794	3013	3824	3964	3967	790
25°	2558	2692	3422	3468	3443	1184
35°	2505	2403	2388	2252	2215	1516
45°	1691	1703	903	865	841	1293
55°	751	776	328	325	309	691
65°	176	174	49	42	37	201
75°	43	37	11	5	4	48
85°	13	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°	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5
2.5°	3516.8	3494.4	3452.6	3503.2	3503.2	3475.0	3531.4	3497.3	3524.6	3567.3	3529.4
5°	3269.9	3251.4	3216.4	3269.9	3276.7	3250.4	3318.5	3293.2	3333.1	3385.6	3380.7
7.5°	3074.5	3051.2	3019.1	3074.5	3085.2	3067.7	3132.8	3121.2	3173.7	3241.7	3253.4
10°	2947.2	2922.9	2894.7	2945.2	2953.0	2941.3	3007.4	3000.6	3052.2	3130.9	3162.0
12.5°	2856.8	2836.4	2805.3	2858.7	2867.5	2850.9	2913.2	2910.2	2963.7	3046.3	3085.2
15°	2793.6	2769.3	2741.1	2786.8	2798.5	2780.0	2839.3	2833.4	2887.9	2969.5	3013.3
17.5°	2734.3	2711.9	2682.8	2725.6	2737.2	2717.8	2776.1	2766.4	2813.0	2890.8	2935.5
20°	2678.9	2654.6	2628.4	2672.1	2678.9	2656.5	2714.9	2702.2	2744.0	2816.0	2859.7
22.5°	2621.5	2596.3	2569.1	2611.8	2618.6	2596.3	2649.7	2635.2	2674.0	2739.2	2779.0
25°	2558.4	2535.0	2507.8	2547.7	2553.5	2529.2	2585.6	2567.1	2601.1	2658.5	2691.5
27.5°	2495.2	2472.8	2442.7	2483.5	2486.4	2463.1	2514.6	2489.4	2517.5	2570.0	2598.2
30°	2484.5	2459.2	2428.1	2461.2	2462.1	2432.0	2480.6	2450.5	2466.0	2504.9	2521.4
32.5°	2518.5	2493.2	2461.2	2488.4	2485.5	2452.4	2499.1	2462.1	2467.0	2487.4	2483.5
35°	2504.9	2474.8	2436.9	2466.0	2466.0	2426.2	2472.8	2429.1	2424.2	2427.1	2402.8
37.5°	2350.4	2327.0	2291.1	2319.2	2316.3	2286.2	2322.2	2286.2	2269.7	2262.9	2219.1
40°	2122.9	2094.7	2067.5	2097.6	2100.5	2068.5	2115.1	2074.3	2069.4	2050.0	1998.5
42.5°	1892.5	1882.8	1856.6	1881.8	1895.4	1868.2	1907.1	1887.7	1890.6	1885.7	1837.1
45°	1691.3	1674.8	1655.4	1684.5	1693.3	1679.7	1718.5	1706.9	1718.5	1742.8	1703.0
47.5°	1474.6	1458.0	1436.7	1467.8	1483.3	1458.0	1491.1	1487.2	1504.7	1546.5	1542.6
50°	1213.1	1201.4	1197.5	1201.4	1211.1	1199.5	1222.8	1223.8	1235.4	1292.8	1296.7
52.5°	960.4	957.4	943.8	956.5	956.5	938.0	961.3	950.6	962.3	1001.2	1026.5
55°	751.4	748.5	739.7	751.4	738.7	731.9	738.7	728.0	719.3	749.4	775.7
57.5°	585.2	575.4	564.7	569.6	568.6	554.1	561.8	549.2	542.4	553.1	576.4
60°	417.0	414.1	404.4	409.2	413.1	402.4	410.2	404.4	392.7	401.4	402.4
62.5°	277.0	279.0	273.1	274.1	271.2	269.3	274.1	277.0	274.1	270.2	271.2
65°	175.9	175.0	174.0	175.0	176.9	173.0	175.9	177.9	175.0	175.0	174.0
67.5°	116.6	113.7	110.8	112.8	114.7	111.8	114.7	113.7	114.7	113.7	110.8
70°	78.7	77.8	76.8	77.8	77.8	75.8	77.8	76.8	77.8	76.8	73.9
72.5°	57.3	57.3	56.4	57.3	57.3	55.4	56.4	54.4	55.4	54.4	52.5
75°	42.8	42.8	41.8	42.8	41.8	40.8	41.8	40.8	38.9	38.9	36.9
77.5°	31.1	31.1	31.1	31.1	31.1	30.1	30.1	29.2	28.2	27.2	27.2
80°	23.3	22.4	22.4	22.4	22.4	21.4	22.4	21.4	20.4	19.4	18.5
82.5°	16.5	17.5	16.5	16.5	16.5	15.6	16.5	15.6	15.6	14.6	12.6
85°	12.6	12.6	12.6	12.6	12.6	11.7	11.7	11.7	10.7	10.7	9.7
87.5°	6.8	6.8	6.8	7.8	6.8	6.8	6.8	5.8	5.8	4.9	4.9
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°	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5
2.5°	3580.0	3584.8	3574.1	3590.7	3654.8	3603.3	3624.7	3631.5	3680.1	3688.8	3683.0
5°	3443.9	3465.3	3478.9	3515.8	3586.8	3549.8	3587.7	3612.0	3674.3	3694.7	3699.5
7.5°	3337.0	3381.7	3414.7	3475.0	3558.6	3530.4	3587.7	3627.6	3703.4	3729.7	3742.3
10°	3257.3	3325.3	3382.6	3465.3	3559.6	3541.1	3615.9	3672.3	3756.9	3788.0	3803.5
12.5°	3197.0	3279.6	3356.4	3461.4	3563.4	3554.7	3645.1	3709.2	3798.7	3829.8	3848.2
15°	3130.9	3226.1	3315.6	3433.2	3543.0	3541.1	3638.3	3706.3	3797.7	3823.9	3841.4
17.5°	3052.2	3154.2	3252.4	3379.7	3488.6	3490.5	3588.7	3655.8	3745.2	3766.6	3778.3
20°	2972.4	3073.5	3171.7	3302.9	3409.9	3412.8	3509.0	3571.2	3656.8	3674.3	3677.2
22.5°	2887.9	2982.2	3080.3	3210.6	3313.6	3315.6	3410.8	3469.2	3542.1	3550.8	3558.6
25°	2791.7	2884.0	2976.3	3105.6	3203.8	3209.6	3296.1	3347.7	3414.7	3421.5	3424.4
27.5°	2691.5	2767.4	2855.8	2966.6	3065.8	3061.9	3143.5	3201.8	3262.1	3258.2	3257.3
30°	2590.4	2653.6	2708.1	2815.0	2887.9	2890.8	2967.6	2995.8	3059.0	3051.2	3050.2
32.5°	2519.5	2536.0	2550.6	2605.0	2674.0	2649.7	2702.2	2737.2	2781.0	2778.0	2779.0
35°	2389.2	2359.1	2315.4	2323.1	2364.9	2327.0	2355.2	2354.2	2399.0	2388.3	2400.9
37.5°	2166.6	2081.1	1983.9	1928.5	1936.3	1888.6	1878.9	1902.3	1917.8	1887.7	1898.4
40°	1929.5	1803.1	1651.5	1525.1	1518.3	1459.0	1448.3	1425.0	1455.1	1429.8	1437.6
42.5°	1754.5	1587.3	1388.1	1234.5	1201.4	1151.8	1122.7	1118.8	1127.5	1110.1	1105.2
45°	1620.4	1442.5	1214.1	1038.1	1001.2	947.7	918.6	907.9	908.8	903.0	898.2
47.5°	1462.9	1284.0	1052.7	872.9	831.1	780.5	751.4	744.6	748.5	740.7	734.9
50°	1245.2	1084.8	873.8	709.6	672.6	635.7	612.4	605.6	604.6	598.8	594.9
52.5°	1010.9	877.7	695.0	557.9	524.9	488.9	472.4	463.7	464.6	458.8	453.0
55°	782.5	699.9	538.5	421.9	391.7	363.5	348.0	337.3	334.4	328.5	325.6
57.5°	582.2	526.8	403.4	304.2	286.7	259.5	244.0	231.3	229.4	226.5	225.5
60°	408.3	368.4	283.8	216.8	196.3	179.8	164.3	151.6	145.8	144.8	141.9
62.5°	264.4	240.1	186.6	144.8	129.3	117.6	102.1	93.3	89.4	85.5	86.5
65°	164.3	145.8	116.6	93.3	84.6	75.8	64.2	56.4	52.5	48.6	49.6
67.5°	102.1	91.4	73.9	60.3	54.4	47.6	38.9	33.0	30.1	27.2	25.3
70°	69.0	59.3	50.5	42.8	38.9	34.0	28.2	23.3	21.4	19.4	17.5
72.5°	48.6	43.7	36.9	32.1	29.2	25.3	21.4	18.5	16.5	14.6	12.6
75°	35.0	31.1	27.2	23.3	21.4	19.4	16.5	14.6	12.6	10.7	8.7
77.5°	25.3	22.4	19.4	17.5	16.5	13.6	11.7	10.7	9.7	7.8	5.8
80°	17.5	15.6	12.6	11.7	11.7	9.7	8.7	7.8	6.8	4.9	3.9
82.5°	11.7	10.7	9.7	8.7	7.8	6.8	6.8	4.9	3.9	2.9	1.9
85°	8.7	7.8	6.8	5.8	5.8	4.9	3.9	2.9	2.9	1.9	1.0
87.5°	4.9	4.9	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°	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5
2.5°	3732.6	3735.5	3752.0	3739.4	3771.5	3794.8	3783.1	3809.4	3800.6	3798.7	3828.8
5°	3757.8	3764.6	3787.0	3775.3	3810.3	3835.6	3823.9	3853.1	3844.4	3842.4	3873.5
7.5°	3806.4	3813.2	3832.7	3823.0	3859.9	3882.3	3867.7	3899.8	3888.1	3887.1	3917.3
10°	3867.7	3877.4	3893.9	3884.2	3918.2	3937.7	3923.1	3954.2	3943.5	3938.6	3971.7
12.5°	3913.4	3920.2	3936.7	3928.9	3962.0	3976.5	3963.9	3994.0	3980.4	3976.5	4005.7
15°	3902.7	3909.5	3923.1	3916.3	3947.4	3961.0	3944.5	3977.5	3963.9	3956.1	3982.4
17.5°	3834.6	3838.5	3848.2	3841.4	3874.5	3883.2	3864.8	3897.8	3885.2	3871.6	3896.8
20°	3734.5	3732.6	3738.4	3735.5	3762.7	3767.6	3755.9	3780.2	3765.6	3757.8	3772.4
22.5°	3610.1	3608.2	3612.0	3604.3	3631.5	3634.4	3616.9	3646.1	3631.5	3616.9	3641.2
25°	3472.1	3461.4	3459.4	3462.3	3480.8	3483.7	3465.3	3486.6	3468.2	3456.5	3479.8
27.5°	3302.0	3288.4	3285.4	3288.4	3306.8	3293.2	3277.7	3293.2	3274.7	3264.1	3278.6
30°	3092.0	3072.6	3063.8	3058.0	3077.4	3072.6	3036.6	3054.1	3024.9	3009.4	3020.1
32.5°	2809.1	2798.5	2775.1	2761.5	2780.0	2743.1	2720.7	2720.7	2709.0	2682.8	2688.6
35°	2416.5	2399.9	2378.5	2366.9	2369.8	2320.2	2283.3	2291.1	2252.2	2245.4	2248.3
37.5°	1919.7	1892.5	1884.8	1860.5	1866.3	1822.5	1772.0	1773.0	1752.6	1731.2	1724.4
40°	1442.5	1437.6	1429.8	1409.4	1417.2	1369.6	1350.1	1351.1	1337.5	1322.0	1329.7
42.5°	1114.9	1099.4	1094.5	1087.7	1089.6	1081.9	1056.6	1059.5	1047.8	1044.0	1040.1
45°	905.9	889.4	877.7	883.6	883.6	874.8	865.1	870.9	865.1	857.3	861.2
47.5°	746.5	731.0	725.1	724.2	731.0	725.1	715.4	717.4	716.4	713.5	711.5
50°	595.9	592.0	587.1	584.2	587.1	585.2	576.4	581.3	584.2	574.5	577.4
52.5°	453.9	453.9	453.0	446.2	452.0	446.2	445.2	447.1	444.2	440.3	439.4
55°	332.4	329.5	324.7	323.7	325.6	323.7	321.7	322.7	324.7	314.9	314.9
57.5°	227.5	225.5	222.6	222.6	226.5	221.6	218.7	222.6	218.7	214.8	214.8
60°	145.8	144.8	141.9	141.9	141.9	140.9	138.0	139.0	140.9	135.1	136.1
62.5°	87.5	84.6	83.6	82.6	83.6	82.6	82.6	81.7	80.7	80.7	77.8
65°	47.6	45.7	43.7	44.7	44.7	43.7	43.7	43.7	41.8	40.8	39.9
67.5°	24.3	22.4	22.4	21.4	21.4	21.4	21.4	20.4	20.4	20.4	19.4
70°	15.6	14.6	13.6	13.6	13.6	12.6	12.6	12.6	12.6	12.6	11.7
72.5°	10.7	9.7	8.7	8.7	8.7	7.8	7.8	7.8	7.8	6.8	6.8
75°	7.8	6.8	5.8	5.8	5.8	4.9	4.9	4.9	4.9	4.9	4.9
77.5°	4.9	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: P251212

CATALOG NUMBER: LSR8B60D010 EC8B60940 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5
2.5°	3818.1	3810.3	3815.2	3851.2	3835.6	3830.7	3789.9	3825.9
5°	3863.8	3858.0	3858.0	3898.8	3880.3	3876.4	3836.6	3867.7
7.5°	3906.6	3900.7	3901.7	3943.5	3928.9	3923.1	3883.2	3914.3
10°	3962.0	3958.1	3959.1	3998.9	3983.4	3977.5	3936.7	3968.8
12.5°	3995.0	3989.2	3989.2	4032.0	4014.5	4005.7	3966.8	3997.9
15°	3969.7	3961.0	3961.0	4003.8	3984.3	3971.7	3937.7	3966.8
17.5°	3883.2	3874.5	3874.5	3911.4	3896.8	3878.4	3843.4	3870.6
20°	3762.7	3752.0	3749.1	3791.9	3771.5	3754.9	3723.8	3750.1
22.5°	3626.6	3621.8	3613.0	3655.8	3637.3	3619.8	3586.8	3607.2
25°	3463.3	3455.5	3446.8	3488.6	3470.1	3452.6	3426.4	3442.9
27.5°	3260.2	3261.1	3256.3	3289.3	3270.9	3261.1	3229.1	3256.3
30°	3014.2	3003.6	2999.7	3038.5	3021.1	3008.4	2968.6	2994.8
32.5°	2693.5	2677.9	2657.5	2701.3	2671.1	2660.4	2626.4	2664.3
35°	2226.9	2222.0	2203.6	2240.5	2224.0	2204.6	2183.2	2215.2
37.5°	1721.5	1725.3	1723.4	1733.1	1723.4	1710.8	1687.4	1675.8
40°	1314.2	1304.5	1296.7	1314.2	1293.8	1293.8	1280.2	1294.7
42.5°	1030.3	1026.5	1036.2	1040.1	1028.4	1026.5	1024.5	1023.5
45°	850.5	850.5	852.5	856.4	852.5	850.5	844.7	840.8
47.5°	700.8	704.7	700.8	713.5	706.7	704.7	693.1	697.9
50°	567.7	562.8	567.7	571.6	572.5	566.7	560.9	563.8
52.5°	440.3	432.6	430.6	436.4	432.6	432.6	428.7	427.7
55°	310.1	313.0	308.1	313.0	311.0	308.1	305.2	309.1
57.5°	210.0	210.9	209.0	211.9	207.0	208.0	207.0	206.1
60°	136.1	132.2	132.2	135.1	130.3	130.3	129.3	129.3
62.5°	77.8	76.8	76.8	75.8	74.8	74.8	74.8	72.9
65°	39.9	38.9	37.9	37.9	37.9	37.9	36.9	36.9
67.5°	19.4	18.5	18.5	19.4	18.5	18.5	18.5	18.5
70°	11.7	11.7	10.7	11.7	10.7	10.7	10.7	10.7
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)