

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: P251210

Luminaire Tested: **LSR8B60D010 EC8B60935 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251210
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 EC8B60935 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5422.0 lumens
Efficiency: N/A
Efficacy: 91.1 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

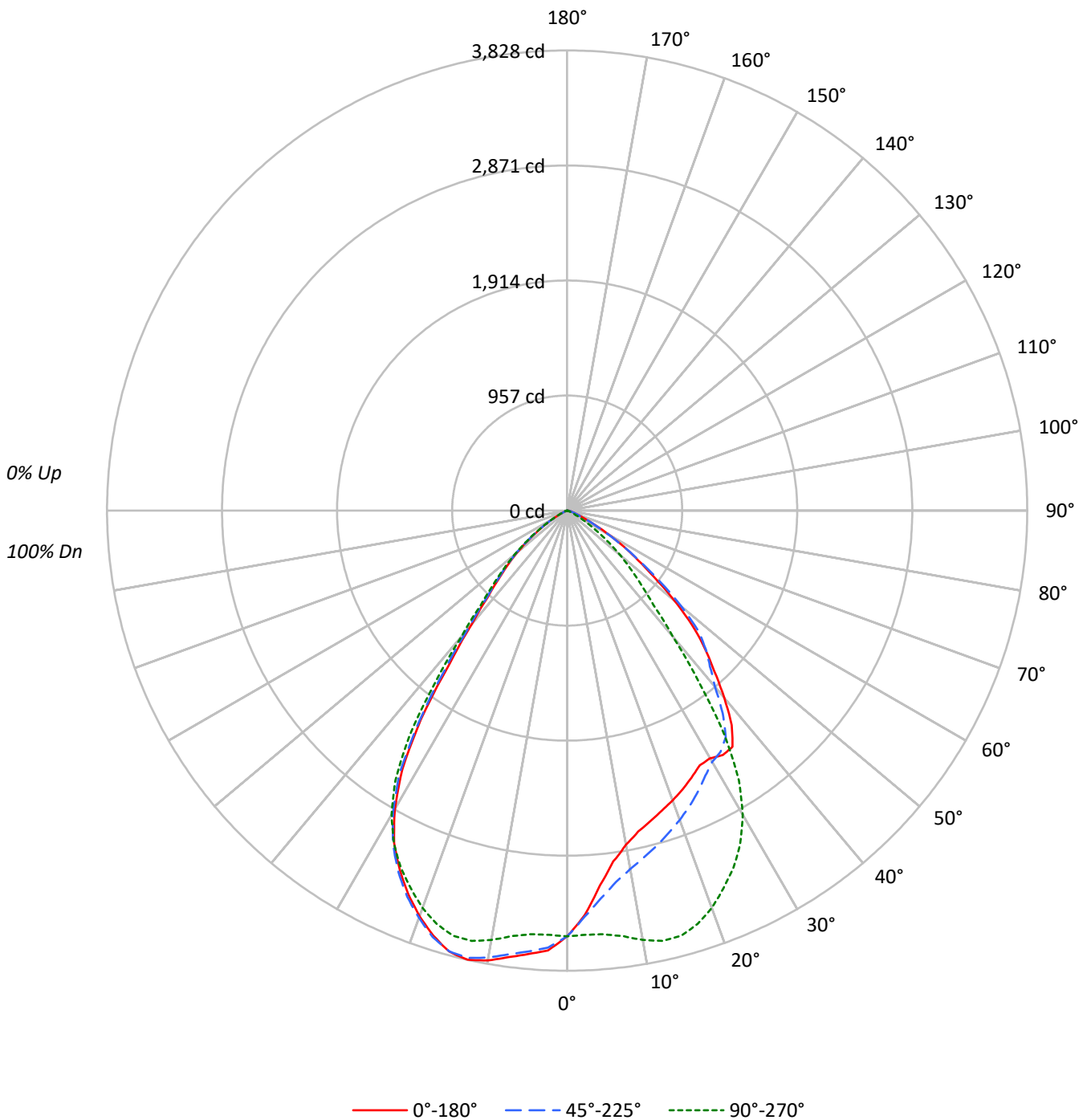
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	109225	109225	109225
5°	96908	109497	114626
10°	88356	113562	118983
15°	85387	116881	121248
20°	84168	115441	117823
25°	83342	111460	112157
30°	84701	104018	102099
35°	90282	86077	79843
40°	81820	55108	49899
45°	70616	37704	35105
50°	55720	27503	25896
55°	38676	16913	15908
60°	24626	8554	7635
65°	12287	3393	2583
70°	6798	1677	920
75°	4873	1215	441
80°	3960	835	160
85°	4281	672	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.1	6.1
10°-20°	953.5	17.6
20°-30°	1384.0	25.5
30°-40°	1363.1	25.1
40°-50°	854.4	15.8
50°-60°	412.3	7.6
60°-70°	99.8	1.8
70°-80°	20.2	0.4
80°-90°	4.6	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°	2667.6	49.2
0°-40°	4030.7	74.3
0°-60°	5297.4	97.7
0°-90°	5422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5422.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3542	3542	3542	3542	3542	
5°	3131	3237	3537	3681	3703	290
15°	2675	2885	3661	3795	3798	756
25°	2450	2577	3276	3321	3296	1134
35°	2398	2301	2287	2156	2121	1451
45°	1619	1630	865	828	805	1238
55°	719	743	315	311	296	662
65°	168	167	46	40	35	192
75°	41	35	10	5	4	46
85°	12	9	2	0	0	12
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°	3542.1	3542.1	3542.1	3542.1	3542.1	3542.1	3542.1	3542.1	3542.1	3542.1	3542.1
2.5°	3367.1	3345.7	3305.7	3354.1	3354.1	3327.1	3381.1	3348.5	3374.6	3415.5	3379.2
5°	3130.7	3113.0	3079.5	3130.7	3137.2	3112.1	3177.3	3153.1	3191.2	3241.5	3236.8
7.5°	2943.7	2921.3	2890.6	2943.7	2953.9	2937.2	2999.5	2988.3	3038.6	3103.7	3114.9
10°	2821.8	2798.5	2771.5	2819.9	2827.3	2816.2	2879.5	2872.9	2922.3	2997.6	3027.4
12.5°	2735.2	2715.7	2685.9	2737.1	2745.4	2729.6	2789.2	2786.4	2837.6	2916.7	2953.9
15°	2674.7	2651.4	2624.5	2668.2	2679.4	2661.7	2718.5	2712.9	2765.0	2843.2	2885.0
17.5°	2617.9	2596.5	2568.6	2609.6	2620.7	2602.1	2658.0	2648.7	2693.3	2767.8	2810.6
20°	2564.9	2541.6	2516.5	2558.4	2564.9	2543.5	2599.3	2587.2	2627.2	2696.1	2738.0
22.5°	2510.0	2485.8	2459.7	2500.7	2507.2	2485.8	2537.0	2523.0	2560.2	2622.6	2660.7
25°	2449.5	2427.2	2401.1	2439.3	2444.8	2421.6	2475.5	2457.9	2490.4	2545.3	2577.0
27.5°	2389.0	2367.6	2338.7	2377.8	2380.6	2358.3	2407.6	2383.4	2410.4	2460.7	2487.6
30°	2378.8	2354.6	2324.8	2356.4	2357.4	2328.5	2375.0	2346.2	2361.1	2398.3	2414.1
32.5°	2411.3	2387.1	2356.4	2382.5	2379.7	2348.0	2392.7	2357.4	2362.0	2381.6	2377.8
35°	2398.3	2369.5	2333.2	2361.1	2361.1	2322.9	2367.6	2325.7	2321.1	2323.9	2300.6
37.5°	2250.3	2228.0	2193.6	2220.5	2217.8	2188.9	2223.3	2188.9	2173.1	2166.6	2124.7
40°	2032.6	2005.6	1979.5	2008.4	2011.2	1980.4	2025.1	1986.0	1981.4	1962.8	1913.4
42.5°	1812.0	1802.7	1777.6	1801.8	1814.8	1788.7	1826.0	1807.3	1810.1	1805.5	1758.9
45°	1619.3	1603.5	1584.9	1612.8	1621.2	1608.2	1645.4	1634.2	1645.4	1668.7	1630.5
47.5°	1411.8	1396.0	1375.5	1405.3	1420.2	1396.0	1427.6	1423.9	1440.7	1480.7	1477.0
50°	1161.5	1150.3	1146.6	1150.3	1159.6	1148.4	1170.8	1171.7	1182.9	1237.8	1241.5
52.5°	919.5	916.7	903.7	915.8	915.8	898.1	920.4	910.2	921.4	958.6	982.8
55°	719.4	716.6	708.2	719.4	707.3	700.8	707.3	697.1	688.7	717.5	742.7
57.5°	560.3	550.9	540.7	545.4	544.4	530.5	537.9	525.8	519.3	529.5	551.9
60°	399.3	396.5	387.2	391.8	395.5	385.3	392.7	387.2	376.0	384.4	385.3
62.5°	265.2	267.1	261.5	262.4	259.7	257.8	262.4	265.2	262.4	258.7	259.7
65°	168.4	167.5	166.6	167.5	169.4	165.7	168.4	170.3	167.5	167.5	166.6
67.5°	111.7	108.9	106.1	108.0	109.8	107.0	109.8	108.9	109.8	108.9	106.1
70°	75.4	74.5	73.5	74.5	74.5	72.6	74.5	73.5	74.5	73.5	70.7
72.5°	54.9	54.9	54.0	54.9	54.9	53.0	54.0	52.1	53.0	52.1	50.3
75°	40.9	40.9	40.0	40.9	40.0	39.1	40.0	39.1	37.2	37.2	35.4
77.5°	29.8	29.8	29.8	29.8	29.8	28.9	28.9	27.9	27.0	26.1	26.1
80°	22.3	21.4	21.4	21.4	21.4	20.5	21.4	20.5	19.5	18.6	17.7
82.5°	15.8	16.8	15.8	15.8	15.8	14.9	15.8	14.9	14.9	14.0	12.1
85°	12.1	12.1	12.1	12.1	12.1	11.2	11.2	11.2	10.2	10.2	9.3
87.5°	6.5	6.5	6.5	7.4	6.5	6.5	6.5	5.6	5.6	4.7	4.7
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°	3542.1	3542.1	3542.1	3542.1	3542.1	3542.1	3542.1	3542.1	3542.1	3542.1	3542.1
2.5°	3427.6	3432.3	3422.0	3437.8	3499.3	3449.9	3470.4	3476.9	3523.5	3531.8	3526.3
5°	3297.3	3317.8	3330.8	3366.2	3434.1	3398.8	3435.1	3458.3	3517.9	3537.4	3542.1
7.5°	3194.9	3237.8	3269.4	3327.1	3407.1	3380.1	3435.1	3473.2	3545.8	3570.9	3583.0
10°	3118.6	3183.8	3238.7	3317.8	3408.1	3390.4	3462.0	3516.0	3597.0	3626.8	3641.7
12.5°	3060.9	3140.0	3213.6	3314.1	3411.8	3403.4	3490.0	3551.4	3637.0	3666.8	3684.5
15°	2997.6	3088.9	3174.5	3287.1	3392.2	3390.4	3483.5	3548.6	3636.1	3661.2	3678.0
17.5°	2922.3	3020.0	3114.0	3235.9	3340.1	3342.0	3436.0	3500.2	3585.8	3606.3	3617.5
20°	2846.0	2942.7	3036.7	3162.4	3264.7	3267.5	3359.7	3419.2	3501.1	3517.9	3520.7
22.5°	2765.0	2855.3	2949.3	3074.0	3172.6	3174.5	3265.7	3321.5	3391.3	3399.7	3407.1
25°	2672.8	2761.3	2849.7	2973.5	3067.4	3073.0	3155.9	3205.2	3269.4	3275.9	3278.7
27.5°	2577.0	2649.6	2734.3	2840.4	2935.3	2931.6	3009.7	3065.6	3123.3	3119.6	3118.6
30°	2480.2	2540.7	2592.8	2695.2	2765.0	2767.8	2841.3	2868.3	2928.8	2921.3	2920.4
32.5°	2412.3	2428.1	2442.0	2494.2	2560.2	2537.0	2587.2	2620.7	2662.6	2659.8	2660.7
35°	2287.6	2258.7	2216.8	2224.3	2264.3	2228.0	2255.0	2254.1	2296.9	2286.6	2298.7
37.5°	2074.4	1992.5	1899.5	1846.4	1853.9	1808.3	1799.0	1821.3	1836.2	1807.3	1817.6
40°	1847.4	1726.4	1581.2	1460.2	1453.7	1396.9	1386.7	1364.3	1393.2	1369.0	1376.4
42.5°	1679.8	1519.8	1329.0	1181.9	1150.3	1102.8	1074.9	1071.2	1079.6	1062.8	1058.2
45°	1551.4	1381.1	1162.4	993.9	958.6	907.4	879.5	869.2	870.2	864.6	859.9
47.5°	1400.6	1229.4	1007.9	835.7	795.7	747.3	719.4	712.9	716.6	709.2	703.6
50°	1192.2	1038.6	836.7	679.4	644.0	608.7	586.3	579.8	578.9	573.3	569.6
52.5°	967.9	840.4	665.4	534.2	502.6	468.1	452.3	443.9	444.9	439.3	433.7
55°	749.2	670.1	515.6	403.9	375.1	348.1	333.2	322.9	320.1	314.6	311.8
57.5°	557.5	504.4	386.2	291.3	274.5	248.5	233.6	221.5	219.6	216.8	215.9
60°	390.9	352.7	271.8	207.5	188.0	172.2	157.3	145.2	139.6	138.7	135.9
62.5°	253.1	229.9	178.7	138.7	123.8	112.6	97.7	89.3	85.6	81.9	82.8
65°	157.3	139.6	111.7	89.3	81.0	72.6	61.4	54.0	50.3	46.5	47.5
67.5°	97.7	87.5	70.7	57.7	52.1	45.6	37.2	31.6	28.9	26.1	24.2
70°	66.1	56.8	48.4	40.9	37.2	32.6	27.0	22.3	20.5	18.6	16.8
72.5°	46.5	41.9	35.4	30.7	27.9	24.2	20.5	17.7	15.8	14.0	12.1
75°	33.5	29.8	26.1	22.3	20.5	18.6	15.8	14.0	12.1	10.2	8.4
77.5°	24.2	21.4	18.6	16.8	15.8	13.0	11.2	10.2	9.3	7.4	5.6
80°	16.8	14.9	12.1	11.2	11.2	9.3	8.4	7.4	6.5	4.7	3.7
82.5°	11.2	10.2	9.3	8.4	7.4	6.5	6.5	4.7	3.7	2.8	1.9
85°	8.4	7.4	6.5	5.6	5.6	4.7	3.7	2.8	2.8	1.9	0.9
87.5°	4.7	4.7	3.7	2.8	2.8	1.9	1.9	0.9	0.9	0.9	0.9
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3542.1	3542.1	3542.1	3542.1	3542.1	3542.1	3542.1	3542.1	3542.1	3542.1	3542.1
2.5°	3573.7	3576.5	3592.3	3580.2	3611.0	3633.3	3622.1	3647.2	3638.9	3637.0	3665.9
5°	3597.9	3604.4	3625.8	3614.7	3648.2	3672.4	3661.2	3689.1	3680.8	3678.9	3708.7
7.5°	3644.5	3651.0	3669.6	3660.3	3695.6	3717.0	3703.1	3733.8	3722.6	3721.7	3750.5
10°	3703.1	3712.4	3728.2	3718.9	3751.5	3770.1	3756.1	3785.9	3775.7	3771.0	3802.7
12.5°	3746.8	3753.3	3769.2	3761.7	3793.4	3807.3	3795.2	3824.1	3811.0	3807.3	3835.2
15°	3736.6	3743.1	3756.1	3749.6	3779.4	3792.4	3776.6	3808.3	3795.2	3787.8	3812.9
17.5°	3671.4	3675.2	3684.5	3678.0	3709.6	3718.0	3700.3	3731.9	3719.8	3706.8	3731.0
20°	3575.6	3573.7	3579.3	3576.5	3602.6	3607.2	3596.1	3619.3	3605.4	3597.9	3611.9
22.5°	3456.5	3454.6	3458.3	3450.9	3476.9	3479.7	3463.0	3490.9	3476.9	3463.0	3486.2
25°	3324.3	3314.1	3312.2	3315.0	3332.7	3335.5	3317.8	3338.3	3320.6	3309.4	3331.8
27.5°	3161.4	3148.4	3145.6	3148.4	3166.1	3153.1	3138.2	3153.1	3135.4	3125.1	3139.1
30°	2960.4	2941.8	2933.4	2927.8	2946.5	2941.8	2907.4	2924.1	2896.2	2881.3	2891.6
32.5°	2689.6	2679.4	2657.0	2644.0	2661.7	2626.3	2604.9	2604.9	2593.7	2568.6	2574.2
35°	2313.6	2297.8	2277.3	2266.2	2268.9	2221.5	2186.1	2193.6	2156.3	2149.8	2152.6
37.5°	1838.0	1812.0	1804.5	1781.3	1786.9	1745.0	1696.6	1697.5	1678.0	1657.5	1651.0
40°	1381.1	1376.4	1369.0	1349.5	1356.9	1311.3	1292.7	1293.6	1280.6	1265.7	1273.1
42.5°	1067.5	1052.6	1047.9	1041.4	1043.3	1035.8	1011.6	1014.4	1003.2	999.5	995.8
45°	867.4	851.6	840.4	846.0	846.0	837.6	828.3	833.9	828.3	820.8	824.6
47.5°	714.7	699.9	694.3	693.3	699.9	694.3	685.0	686.8	685.9	683.1	681.2
50°	570.5	566.8	562.1	559.3	562.1	560.3	551.9	556.5	559.3	550.0	552.8
52.5°	434.6	434.6	433.7	427.2	432.8	427.2	426.2	428.1	425.3	421.6	420.7
55°	318.3	315.5	310.8	309.9	311.8	309.9	308.0	309.0	310.8	301.5	301.5
57.5°	217.8	215.9	213.1	213.1	216.8	212.2	209.4	213.1	209.4	205.7	205.7
60°	139.6	138.7	135.9	135.9	135.9	134.9	132.2	133.1	134.9	129.4	130.3
62.5°	83.8	81.0	80.0	79.1	80.0	79.1	79.1	78.2	77.2	77.2	74.5
65°	45.6	43.7	41.9	42.8	42.8	41.9	41.9	41.9	40.0	39.1	38.2
67.5°	23.3	21.4	21.4	20.5	20.5	20.5	20.5	19.5	19.5	19.5	18.6
70°	14.9	14.0	13.0	13.0	13.0	12.1	12.1	12.1	12.1	12.1	11.2
72.5°	10.2	9.3	8.4	8.4	8.4	7.4	7.4	7.4	7.4	6.5	6.5
75°	7.4	6.5	5.6	5.6	5.6	4.7	4.7	4.7	4.7	4.7	4.7
77.5°	4.7	3.7	3.7	3.7	3.7	2.8	2.8	2.8	2.8	2.8	1.9
80°	2.8	2.8	1.9	1.9	1.9	1.9	0.9	0.9	0.9	0.9	0.9
82.5°	1.9	1.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
87.5°	0.9	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: P251210

CATALOG NUMBER: LSR8B60D010 EC8B60935 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3542.1	3542.1	3542.1	3542.1	3542.1	3542.1	3542.1	3542.1
2.5°	3655.6	3648.2	3652.8	3687.3	3672.4	3667.7	3628.6	3663.1
5°	3699.4	3693.8	3693.8	3732.9	3715.2	3711.5	3673.3	3703.1
7.5°	3740.3	3734.7	3735.7	3775.7	3761.7	3756.1	3718.0	3747.8
10°	3793.4	3789.6	3790.6	3828.7	3813.8	3808.3	3769.2	3799.9
12.5°	3825.0	3819.4	3819.4	3860.4	3843.6	3835.2	3798.0	3827.8
15°	3800.8	3792.4	3792.4	3833.4	3814.8	3802.7	3770.1	3798.0
17.5°	3718.0	3709.6	3709.6	3745.0	3731.0	3713.3	3679.8	3705.9
20°	3602.6	3592.3	3589.5	3630.5	3611.0	3595.1	3565.3	3590.5
22.5°	3472.3	3467.6	3459.3	3500.2	3482.5	3465.8	3434.1	3453.7
25°	3315.9	3308.5	3300.1	3340.1	3322.4	3305.7	3280.6	3296.4
27.5°	3121.4	3122.4	3117.7	3149.3	3131.7	3122.4	3091.6	3117.7
30°	2886.0	2875.7	2872.0	2909.2	2892.5	2880.4	2842.2	2867.4
32.5°	2578.9	2564.0	2544.4	2586.3	2557.4	2547.2	2514.6	2550.9
35°	2132.1	2127.5	2109.8	2145.2	2129.3	2110.7	2090.3	2121.0
37.5°	1648.2	1651.9	1650.1	1659.4	1650.1	1638.0	1615.6	1604.5
40°	1258.2	1248.9	1241.5	1258.2	1238.7	1238.7	1225.7	1239.6
42.5°	986.5	982.8	992.1	995.8	984.6	982.8	980.9	980.0
45°	814.3	814.3	816.2	819.9	816.2	814.3	808.7	805.0
47.5°	671.0	674.7	671.0	683.1	676.6	674.7	663.6	668.2
50°	543.5	538.9	543.5	547.2	548.2	542.6	537.0	539.8
52.5°	421.6	414.1	412.3	417.9	414.1	414.1	410.4	409.5
55°	296.9	299.7	295.0	299.7	297.8	295.0	292.2	295.9
57.5°	201.0	202.0	200.1	202.9	198.2	199.2	198.2	197.3
60°	130.3	126.6	126.6	129.4	124.7	124.7	123.8	123.8
62.5°	74.5	73.5	73.5	72.6	71.7	71.7	71.7	69.8
65°	38.2	37.2	36.3	36.3	36.3	36.3	35.4	35.4
67.5°	18.6	17.7	17.7	18.6	17.7	17.7	17.7	17.7
70°	11.2	11.2	10.2	11.2	10.2	10.2	10.2	10.2
72.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
75°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
77.5°	2.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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)