

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: P251216

Luminaire Tested: **LSR8B60D010 EC8B60927 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251216
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 EC8B60927 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4980.4 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

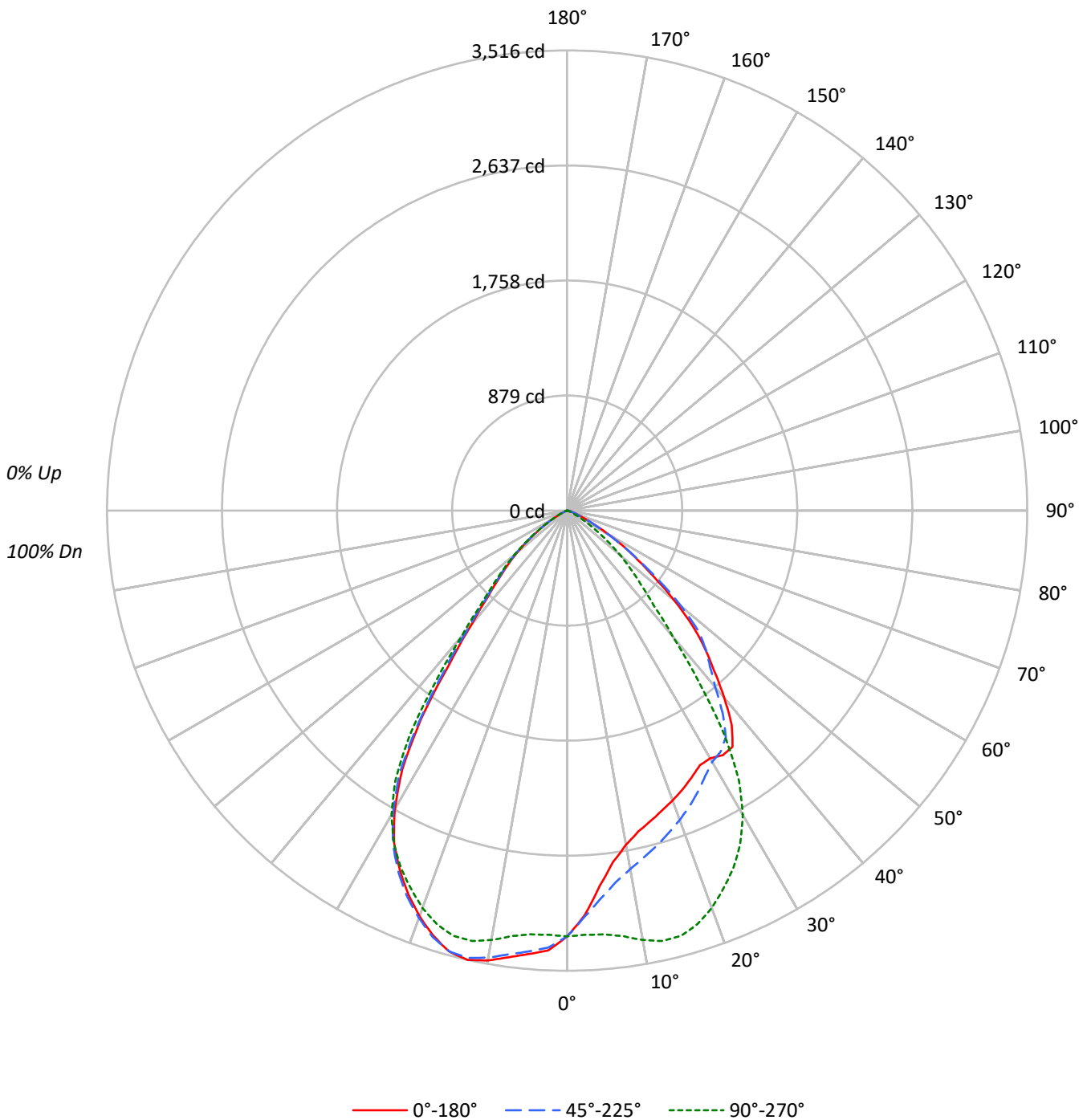
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.2	6.1
10°-20°	875.9	17.6
20°-30°	1271.2	25.5
30°-40°	1252.0	25.1
40°-50°	784.8	15.8
50°-60°	378.7	7.6
60°-70°	91.7	1.8
70°-80°	18.5	0.4
80°-90°	4.3	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°	2450.3	49.2
0°-40°	3702.4	74.3
0°-60°	4866.0	97.7
0°-90°	4980.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4980.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3254	3254	3254	3254	3254	
5°	2876	2973	3249	3381	3401	266
15°	2457	2650	3363	3486	3489	695
25°	2250	2367	3009	3050	3028	1041
35°	2203	2113	2100	1981	1948	1333
45°	1488	1498	794	761	740	1137
55°	661	682	289	286	272	608
65°	155	153	43	37	32	177
75°	38	32	10	4	3	42
85°	11	8	2	0	0	11
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°	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6
2.5°	3092.8	3073.2	3036.5	3080.9	3080.9	3056.1	3105.7	3075.8	3099.7	3137.3	3104.0
5°	2875.7	2859.5	2828.7	2875.7	2881.7	2858.6	2918.5	2896.2	2931.3	2977.4	2973.2
7.5°	2703.9	2683.4	2655.2	2703.9	2713.3	2698.0	2755.2	2744.9	2791.1	2851.0	2861.2
10°	2591.9	2570.5	2545.8	2590.2	2597.1	2586.8	2644.9	2638.9	2684.2	2753.4	2780.9
12.5°	2512.5	2494.5	2467.1	2514.2	2521.8	2507.3	2562.0	2559.5	2606.4	2679.1	2713.3
15°	2456.9	2435.5	2410.6	2450.9	2461.2	2444.8	2497.0	2491.9	2539.8	2611.6	2650.0
17.5°	2404.7	2385.0	2359.4	2397.0	2407.3	2390.2	2441.5	2432.9	2474.0	2542.4	2581.6
20°	2356.0	2334.6	2311.5	2350.0	2356.0	2336.3	2387.6	2376.5	2413.2	2476.5	2514.9
22.5°	2305.6	2283.3	2259.3	2297.0	2303.0	2283.3	2330.3	2317.5	2351.7	2409.0	2444.1
25°	2250.0	2229.4	2205.6	2240.5	2245.7	2224.4	2274.0	2257.6	2287.6	2338.0	2367.1
27.5°	2194.4	2174.7	2148.3	2184.2	2186.8	2166.2	2211.5	2189.2	2214.1	2260.2	2285.0
30°	2185.0	2162.8	2135.5	2164.5	2165.4	2138.8	2181.6	2155.0	2168.8	2203.0	2217.5
32.5°	2214.9	2192.7	2164.5	2188.5	2185.9	2156.8	2197.8	2165.4	2169.7	2187.6	2184.2
35°	2203.0	2176.4	2143.1	2168.8	2168.8	2133.7	2174.7	2136.3	2132.0	2134.6	2113.2
37.5°	2067.1	2046.5	2014.9	2039.7	2037.2	2010.6	2042.2	2010.6	1996.1	1990.1	1951.6
40°	1867.0	1842.2	1818.2	1844.8	1847.4	1819.1	1860.2	1824.3	1820.0	1802.9	1757.6
42.5°	1664.4	1655.9	1632.8	1655.0	1666.9	1643.1	1677.3	1660.2	1662.6	1658.4	1615.7
45°	1487.5	1473.0	1455.9	1481.5	1489.2	1477.2	1511.4	1501.1	1511.4	1532.7	1497.7
47.5°	1296.8	1282.3	1263.5	1290.8	1304.6	1282.3	1311.3	1307.9	1323.3	1360.1	1356.6
50°	1066.8	1056.6	1053.2	1056.6	1065.1	1054.9	1075.4	1076.3	1086.5	1136.9	1140.4
52.5°	844.6	842.1	830.0	841.2	841.2	825.0	845.4	836.1	846.3	880.5	902.7
55°	660.8	658.2	650.6	660.8	649.7	643.7	649.7	640.2	632.6	659.1	682.2
57.5°	514.6	506.0	496.7	501.0	500.1	487.2	494.1	483.0	477.0	486.4	506.9
60°	366.8	364.2	355.6	359.9	363.3	353.9	360.8	355.6	345.4	353.0	353.9
62.5°	243.7	245.4	240.2	241.1	238.5	236.8	241.1	243.7	241.1	237.6	238.5
65°	154.7	153.9	153.0	153.9	155.6	152.2	154.7	156.5	153.9	153.9	153.0
67.5°	102.6	100.0	97.4	99.1	100.9	98.3	100.9	100.0	100.9	100.0	97.4
70°	69.2	68.4	67.5	68.4	68.4	66.7	68.4	67.5	68.4	67.5	65.0
72.5°	50.4	50.4	49.6	50.4	50.4	48.7	49.6	47.9	48.7	47.9	46.1
75°	37.6	37.6	36.8	37.6	36.8	35.9	36.8	35.9	34.2	34.2	32.5
77.5°	27.3	27.3	27.3	27.3	27.3	26.6	26.6	25.6	24.8	24.0	24.0
80°	20.5	19.7	19.7	19.7	19.7	18.8	19.7	18.8	18.0	17.1	16.2
82.5°	14.5	15.4	14.5	14.5	14.5	13.7	14.5	13.7	13.7	12.8	11.1
85°	11.1	11.1	11.1	11.1	11.1	10.2	10.2	10.2	9.5	9.5	8.5
87.5°	6.0	6.0	6.0	6.9	6.0	6.0	6.0	5.2	5.2	4.3	4.3
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°	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6
2.5°	3148.4	3152.7	3143.2	3157.9	3214.2	3168.9	3187.8	3193.8	3236.5	3244.2	3239.1
5°	3028.7	3047.5	3059.5	3092.1	3154.4	3121.9	3155.3	3176.7	3231.3	3249.3	3253.6
7.5°	2934.7	2974.0	3003.1	3056.1	3129.6	3104.9	3155.3	3190.3	3257.0	3280.0	3291.2
10°	2864.6	2924.4	2975.0	3047.5	3130.4	3114.2	3180.0	3229.6	3304.0	3331.4	3345.1
12.5°	2811.6	2884.3	2951.8	3044.1	3133.9	3126.2	3205.7	3262.2	3340.8	3368.1	3384.3
15°	2753.4	2837.2	2915.9	3019.4	3115.9	3114.2	3199.7	3259.6	3339.9	3363.0	3378.4
17.5°	2684.2	2774.0	2860.3	2972.4	3068.1	3069.8	3156.1	3215.1	3293.8	3312.6	3322.8
20°	2614.2	2703.0	2789.4	2904.8	2998.8	3001.4	3086.0	3140.8	3215.9	3231.3	3233.9
22.5°	2539.8	2622.7	2709.0	2823.6	2914.2	2915.9	2999.7	3051.0	3115.1	3122.8	3129.6
25°	2455.1	2536.3	2617.5	2731.3	2817.6	2822.7	2898.8	2944.1	3003.1	3009.0	3011.6
27.5°	2367.1	2433.8	2511.6	2609.0	2696.2	2692.8	2764.6	2815.9	2868.9	2865.5	2864.6
30°	2278.2	2333.7	2381.6	2475.7	2539.8	2542.4	2609.9	2634.6	2690.2	2683.4	2682.6
32.5°	2215.8	2230.3	2243.1	2291.1	2351.7	2330.3	2376.5	2407.3	2445.8	2443.2	2444.1
35°	2101.3	2074.7	2036.2	2043.1	2079.9	2046.5	2071.4	2070.5	2109.8	2100.4	2111.5
37.5°	1905.5	1830.3	1744.8	1696.0	1702.9	1661.0	1652.4	1673.0	1686.6	1660.2	1669.5
40°	1696.8	1585.8	1452.4	1341.2	1335.3	1283.2	1273.7	1253.2	1279.7	1257.5	1264.3
42.5°	1543.0	1396.0	1220.7	1085.6	1056.6	1013.0	987.4	983.9	991.7	976.3	972.0
45°	1425.0	1268.6	1067.7	912.9	880.5	833.5	807.9	798.4	799.3	794.1	789.9
47.5°	1286.6	1129.3	925.8	767.7	730.9	686.5	660.8	654.9	658.2	651.4	646.3
50°	1095.1	954.0	768.5	624.0	591.5	559.1	538.5	532.6	531.7	526.6	523.1
52.5°	889.1	772.0	611.2	490.7	461.6	430.0	415.5	407.8	408.6	403.5	398.4
55°	688.2	615.5	473.6	371.0	344.5	319.7	306.0	296.7	294.1	288.9	286.4
57.5°	512.1	463.4	354.7	267.5	252.2	228.3	214.5	203.4	201.7	199.1	198.3
60°	359.0	324.0	249.6	190.7	172.7	158.2	144.5	133.3	128.2	127.4	124.8
62.5°	232.5	211.2	164.1	127.4	113.7	103.4	89.8	82.0	78.6	75.3	76.0
65°	144.5	128.2	102.6	82.0	74.4	66.7	56.5	49.6	46.1	42.8	43.6
67.5°	89.8	80.3	65.0	53.0	47.9	41.8	34.2	29.0	26.6	24.0	22.3
70°	60.8	52.2	44.4	37.6	34.2	29.9	24.8	20.5	18.8	17.1	15.4
72.5°	42.8	38.5	32.5	28.2	25.6	22.3	18.8	16.2	14.5	12.8	11.1
75°	30.8	27.3	24.0	20.5	18.8	17.1	14.5	12.8	11.1	9.5	7.6
77.5°	22.3	19.7	17.1	15.4	14.5	11.9	10.2	9.5	8.5	6.9	5.2
80°	15.4	13.7	11.1	10.2	10.2	8.5	7.6	6.9	6.0	4.3	3.4
82.5°	10.2	9.5	8.5	7.6	6.9	6.0	6.0	4.3	3.4	2.6	1.7
85°	7.6	6.9	6.0	5.2	5.2	4.3	3.4	2.6	2.6	1.7	0.9
87.5°	4.3	4.3	3.4	2.6	2.6	1.7	1.7	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°	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6
2.5°	3282.6	3285.2	3299.7	3288.6	3316.8	3337.3	3327.1	3350.1	3342.5	3340.8	3367.2
5°	3304.9	3310.9	3330.6	3320.2	3351.0	3373.3	3363.0	3388.6	3381.0	3379.3	3406.6
7.5°	3347.7	3353.6	3370.7	3362.2	3394.6	3414.3	3401.4	3429.7	3419.4	3418.5	3445.1
10°	3401.4	3410.0	3424.5	3416.0	3445.9	3463.0	3450.2	3477.6	3468.2	3463.9	3492.9
12.5°	3441.6	3447.7	3462.2	3455.3	3484.4	3497.2	3486.2	3512.6	3500.7	3497.2	3522.8
15°	3432.3	3438.2	3450.2	3444.2	3471.5	3483.6	3469.0	3498.1	3486.2	3479.3	3502.4
17.5°	3372.4	3375.8	3384.3	3378.4	3407.4	3415.2	3398.8	3428.0	3416.8	3404.9	3427.1
20°	3284.3	3282.6	3287.8	3285.2	3309.2	3313.5	3303.1	3324.5	3311.7	3304.9	3317.7
22.5°	3175.0	3173.2	3176.7	3169.8	3193.8	3196.4	3180.9	3206.6	3193.8	3180.9	3202.3
25°	3053.6	3044.1	3042.5	3045.0	3061.2	3063.8	3047.5	3066.4	3050.1	3039.9	3060.3
27.5°	2904.0	2891.9	2889.5	2891.9	2908.2	2896.2	2882.6	2896.2	2880.0	2870.5	2883.4
30°	2719.2	2702.2	2694.5	2689.4	2706.5	2702.2	2670.5	2685.9	2660.3	2646.7	2656.0
32.5°	2470.5	2461.2	2440.6	2428.6	2444.8	2412.5	2392.8	2392.8	2382.5	2359.4	2364.5
35°	2125.1	2110.6	2091.8	2081.6	2084.2	2040.5	2008.0	2014.9	1980.7	1974.7	1977.3
37.5°	1688.3	1664.4	1657.6	1636.2	1641.4	1602.9	1558.4	1559.2	1541.2	1522.5	1516.5
40°	1268.6	1264.3	1257.5	1239.5	1246.4	1204.5	1187.4	1188.2	1176.3	1162.6	1169.4
42.5°	980.6	966.8	962.6	956.6	958.3	951.4	929.2	931.8	921.5	918.1	914.7
45°	796.7	782.2	772.0	777.0	777.0	769.4	760.8	765.9	760.8	754.0	757.4
47.5°	656.6	642.8	637.8	636.9	642.8	637.8	629.2	630.9	630.0	627.4	625.7
50°	524.0	520.6	516.4	513.8	516.4	514.6	506.9	511.2	513.8	505.2	507.8
52.5°	399.3	399.3	398.4	392.4	397.5	392.4	391.5	393.2	390.7	387.2	386.4
55°	292.4	289.8	285.5	284.6	286.4	284.6	282.9	283.8	285.5	277.0	277.0
57.5°	200.0	198.3	195.8	195.8	199.1	195.0	192.4	195.8	192.4	188.9	188.9
60°	128.2	127.4	124.8	124.8	124.8	124.0	121.4	122.3	124.0	118.8	119.7
62.5°	77.0	74.4	73.5	72.7	73.5	72.7	72.7	71.8	71.0	71.0	68.4
65°	41.8	40.2	38.5	39.4	39.4	38.5	38.5	38.5	36.8	35.9	35.1
67.5°	21.4	19.7	19.7	18.8	18.8	18.8	18.8	18.0	18.0	18.0	17.1
70°	13.7	12.8	11.9	11.9	11.9	11.1	11.1	11.1	11.1	11.1	10.2
72.5°	9.5	8.5	7.6	7.6	7.6	6.9	6.9	6.9	6.9	6.0	6.0
75°	6.9	6.0	5.2	5.2	5.2	4.3	4.3	4.3	4.3	4.3	4.3
77.5°	4.3	3.4	3.4	3.4	3.4	2.6	2.6	2.6	2.6	2.6	1.7
80°	2.6	2.6	1.7	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9
82.5°	1.7	1.7	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: P251216

CATALOG NUMBER: LSR8B60D010 EC8B60927 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6	3253.6
2.5°	3357.9	3351.0	3355.3	3386.9	3373.3	3369.0	3333.0	3364.8
5°	3398.1	3392.9	3392.9	3428.8	3412.6	3409.2	3374.1	3401.4
7.5°	3435.6	3430.6	3431.4	3468.2	3455.3	3450.2	3415.2	3442.5
10°	3484.4	3481.0	3481.9	3516.9	3503.2	3498.1	3462.2	3490.4
12.5°	3513.5	3508.3	3508.3	3545.9	3530.6	3522.8	3488.6	3516.0
15°	3491.2	3483.6	3483.6	3521.1	3504.0	3492.9	3463.0	3488.6
17.5°	3415.2	3407.4	3407.4	3439.9	3427.1	3410.9	3380.1	3404.0
20°	3309.2	3299.7	3297.2	3334.8	3316.8	3302.3	3275.0	3298.0
22.5°	3189.5	3185.2	3177.5	3215.1	3198.8	3183.5	3154.4	3172.4
25°	3045.8	3039.0	3031.3	3068.1	3051.8	3036.5	3013.3	3027.9
27.5°	2867.2	2868.1	2863.8	2892.8	2876.6	2868.1	2839.8	2863.8
30°	2651.0	2641.5	2638.1	2672.3	2656.9	2645.8	2610.7	2633.8
32.5°	2368.8	2355.1	2337.2	2375.7	2349.1	2339.8	2309.8	2343.2
35°	1958.5	1954.2	1937.9	1970.4	1955.9	1938.8	1920.0	1948.2
37.5°	1513.9	1517.4	1515.7	1524.3	1515.7	1504.6	1484.0	1473.8
40°	1155.7	1147.2	1140.4	1155.7	1137.8	1137.8	1125.9	1138.6
42.5°	906.2	902.7	911.2	914.7	904.4	902.7	901.0	900.1
45°	748.0	748.0	749.7	753.1	749.7	748.0	742.8	739.5
47.5°	616.4	619.8	616.4	627.4	621.4	619.8	609.5	613.8
50°	499.3	495.0	499.3	502.6	503.6	498.4	493.2	495.8
52.5°	387.2	380.4	378.7	383.8	380.4	380.4	377.0	376.1
55°	272.7	275.3	271.0	275.3	273.6	271.0	268.4	271.8
57.5°	184.6	185.5	183.8	186.4	182.1	182.9	182.1	181.2
60°	119.7	116.2	116.2	118.8	114.5	114.5	113.7	113.7
62.5°	68.4	67.5	67.5	66.7	65.8	65.8	65.8	64.1
65°	35.1	34.2	33.3	33.3	33.3	33.3	32.5	32.5
67.5°	17.1	16.2	16.2	17.1	16.2	16.2	16.2	16.2
70°	10.2	10.2	9.5	10.2	9.5	9.5	9.5	9.5
72.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
75°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
77.5°	2.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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)