

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: P248876

Luminaire Tested: **LSR8B70D010 EC8B70830 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B70830 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5532.0 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

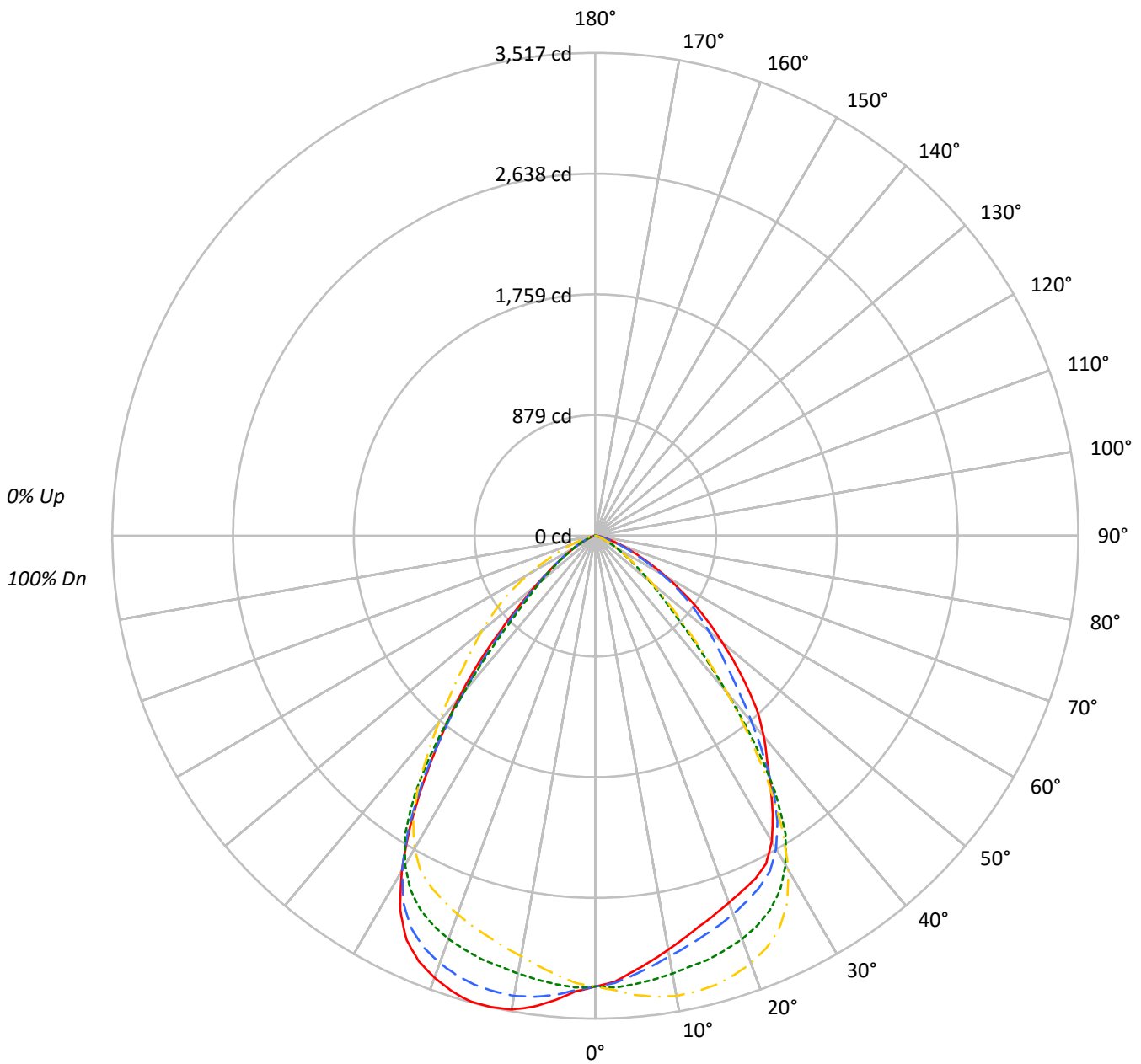
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248876

CATALOG NUMBER: LSR8B70D010 EC8B70830 8LBSW0B

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



TEST NUMBER: P248876

CATALOG NUMBER: LSR8B70D010 EC8B70830 8LBSW0B

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	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	101273	101273	101273	101273
5°	98583	101511	105133	101511
10°	95855	101376	109711	101376
15°	93940	101978	112114	101978
20°	93301	102561	112402	102561
25°	93791	102355	110595	102355
30°	91470	98609	100382	98609
35°	83668	86021	81616	86021
40°	76817	59837	62486	59837
45°	68253	36505	42240	36505
50°	57774	24385	27081	24385
55°	47848	16639	17585	16639
60°	36492	11076	11175	11076
65°	25859	6902	6319	6902
70°	18654	4625	4192	4625
75°	11843	2299	1906	2299
80°	8257	1705	1421	1705
85°	7395	0	566	0



TEST NUMBER: P248876

CATALOG NUMBER: LSR8B70D010 EC8B70830 8LBSW0B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.6	5.7
10°-20°	905.2	16.4
20°-30°	1370.7	24.8
30°-40°	1373.7	24.8
40°-50°	862.6	15.6
50°-60°	459.7	8.3
60°-70°	189.0	3.4
70°-80°	49.9	0.9
80°-90°	8.4	0.2
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°	2588.5	46.8
0°-40°	3962.2	71.6
0°-60°	5284.6	95.5
0°-90°	5532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5532.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3284	3284	3284	3284	3284	
5°	3185	3279	3396	3279	3185	300
15°	2943	3194	3512	3194	2943	832
25°	2757	3008	3250	3008	2757	1264
35°	2223	2285	2168	2285	2223	1392
45°	1565	837	969	837	1565	1204
55°	890	310	327	310	890	793
65°	354	95	87	95	354	368
75°	99	19	16	19	99	113
85°	21	0	2	0	21	23
90°	0	0	0	0	0	



TEST NUMBER: P248876

CATALOG NUMBER: LSR8B70D010 EC8B70830 8LBSW0B

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2
2.5°	3250.5	3247.3	3245.7	3248.9	3250.5	3256.9	3255.3	3258.5	3258.5	3260.1	3263.3
5°	3184.8	3183.1	3184.8	3184.8	3191.2	3197.6	3196.0	3200.8	3204.0	3212.0	3215.2
7.5°	3123.8	3123.8	3122.2	3128.6	3131.8	3141.5	3139.8	3147.9	3152.7	3160.7	3171.9
10°	3061.3	3061.3	3062.9	3067.7	3069.3	3083.7	3083.7	3094.9	3101.3	3109.4	3123.8
12.5°	3000.3	3000.3	3010.0	3006.8	3013.2	3024.4	3029.2	3040.4	3050.1	3066.1	3080.5
15°	2942.6	2942.6	2945.8	2953.8	2958.6	2973.1	2981.1	2993.9	3005.2	3021.2	3042.1
17.5°	2892.9	2891.3	2892.9	2902.5	2912.2	2925.0	2931.4	2947.4	2958.6	2979.5	2998.8
20°	2843.2	2846.4	2846.4	2854.4	2860.8	2876.9	2883.3	2900.9	2913.7	2933.0	2955.5
22.5°	2799.9	2798.3	2798.3	2809.5	2814.3	2828.7	2835.1	2851.2	2865.6	2881.7	2902.5
25°	2756.6	2753.4	2759.8	2761.4	2764.6	2780.6	2785.4	2796.7	2811.1	2825.6	2846.4
27.5°	2692.4	2689.3	2690.8	2697.3	2702.1	2714.9	2718.1	2729.3	2740.6	2753.4	2771.0
30°	2568.9	2565.8	2564.2	2575.4	2580.2	2589.8	2594.6	2613.9	2617.1	2631.5	2644.3
32.5°	2405.4	2403.8	2407.0	2416.6	2421.4	2434.3	2440.7	2451.9	2459.9	2467.9	2480.8
35°	2222.6	2219.4	2222.6	2232.2	2232.2	2243.5	2248.3	2253.0	2251.5	2253.0	2249.9
37.5°	2052.6	2051.0	2052.6	2057.4	2052.6	2057.4	2052.6	2043.0	2025.4	2006.1	1986.8
40°	1908.3	1909.9	1900.3	1906.7	1889.0	1885.8	1868.2	1844.1	1808.9	1770.4	1715.9
42.5°	1754.4	1749.5	1743.1	1746.3	1731.9	1720.6	1691.8	1661.4	1616.4	1552.3	1486.5
45°	1565.1	1563.5	1560.3	1558.7	1549.1	1537.9	1513.8	1478.5	1428.8	1363.1	1284.5
47.5°	1380.7	1375.9	1375.9	1377.5	1366.2	1364.7	1345.4	1315.0	1271.7	1207.5	1125.7
50°	1204.3	1202.7	1205.9	1212.3	1204.3	1201.1	1188.3	1167.4	1129.0	1074.4	997.4
52.5°	1045.5	1043.9	1047.2	1055.2	1051.9	1055.2	1042.4	1026.3	1000.6	947.7	880.4
55°	890.0	890.0	890.0	899.6	899.6	899.6	893.2	883.6	859.5	821.0	758.5
57.5°	728.0	729.6	739.3	740.8	739.3	742.5	740.8	731.2	715.2	688.0	639.9
60°	591.7	591.7	596.6	601.4	599.7	601.4	601.4	596.6	580.5	558.1	519.6
62.5°	468.2	473.1	469.8	473.1	479.5	473.1	469.8	466.7	455.4	441.0	408.9
65°	354.4	357.6	357.6	359.2	356.0	357.6	351.2	346.4	340.0	324.0	303.1
67.5°	269.4	269.4	269.4	269.4	267.8	266.2	264.6	259.8	248.6	242.2	219.7
70°	206.9	197.2	197.2	197.2	197.2	198.9	194.1	187.7	184.4	173.2	157.2
72.5°	137.9	141.1	137.9	137.9	134.7	136.3	129.9	126.7	123.5	117.1	107.5
75°	99.4	91.4	94.6	96.2	91.4	94.6	88.2	81.8	81.8	77.0	72.1
77.5°	64.2	62.6	64.2	65.7	64.2	62.6	59.3	56.1	56.1	54.5	49.7
80°	46.5	44.9	44.9	44.9	43.3	44.9	41.7	41.7	38.5	36.9	33.7
82.5°	30.5	30.5	28.8	30.5	28.8	30.5	25.7	25.7	25.7	24.0	20.9
85°	20.9	17.6	17.6	19.3	16.0	19.3	17.6	16.0	14.5	14.5	12.8
87.5°	9.6	11.2	9.6	11.2	9.6	9.6	11.2	9.6	9.6	6.4	6.4
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: P248876

CATALOG NUMBER: LSR8B70D010 EC8B70830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2
2.5°	3268.1	3269.7	3269.7	3276.2	3279.4	3280.9	3280.9	3293.8	3289.0	3292.2	3295.4
5°	3221.7	3231.2	3234.5	3234.5	3252.1	3258.5	3264.9	3279.4	3280.9	3290.6	3301.8
7.5°	3176.7	3187.9	3194.4	3208.8	3220.0	3231.2	3250.5	3260.1	3269.7	3282.6	3297.0
10°	3133.4	3146.3	3159.1	3170.3	3187.9	3202.4	3215.2	3237.6	3248.9	3266.5	3285.8
12.5°	3091.8	3109.4	3120.6	3139.8	3159.1	3171.9	3191.2	3212.0	3229.7	3247.3	3269.7
15°	3054.9	3075.7	3088.5	3109.4	3130.2	3147.9	3168.7	3194.4	3207.2	3228.1	3248.9
17.5°	3014.7	3037.2	3053.3	3072.5	3098.2	3117.4	3135.1	3160.7	3176.7	3199.2	3223.3
20°	2973.1	2995.5	3014.7	3034.0	3059.7	3078.9	3099.8	3125.4	3143.1	3165.5	3184.8
22.5°	2923.4	2944.2	2965.0	2987.5	3013.2	3029.2	3053.3	3075.7	3094.9	3115.8	3135.1
25°	2859.2	2884.9	2900.9	2921.7	2942.6	2960.2	2985.9	3008.3	3024.4	3043.6	3061.3
27.5°	2783.9	2803.1	2815.9	2833.6	2854.4	2870.5	2889.7	2912.2	2928.2	2945.8	2958.6
30°	2655.5	2673.2	2684.4	2697.3	2718.1	2732.6	2748.6	2769.4	2780.6	2793.5	2804.7
32.5°	2487.2	2501.6	2508.0	2517.7	2532.1	2546.5	2559.4	2577.0	2581.8	2589.8	2589.8
35°	2243.5	2246.6	2245.0	2248.3	2254.7	2262.7	2273.9	2285.1	2291.5	2291.5	2286.8
37.5°	1958.0	1938.8	1917.9	1901.9	1897.1	1893.8	1900.3	1905.1	1911.5	1914.7	1906.7
40°	1661.4	1618.1	1571.5	1529.8	1501.0	1488.2	1483.3	1486.5	1486.5	1497.7	1497.7
42.5°	1406.4	1339.0	1270.1	1207.5	1165.8	1133.8	1119.3	1119.3	1120.9	1129.0	1133.8
45°	1194.7	1109.7	1029.5	960.6	902.8	861.1	841.9	837.1	835.5	838.7	849.9
47.5°	1032.7	944.5	861.1	776.2	715.2	673.5	655.9	649.4	643.0	649.4	651.1
50°	906.1	814.6	726.5	641.4	577.3	540.4	517.9	508.3	506.7	506.7	510.0
52.5°	790.5	705.6	617.4	530.8	463.4	428.2	407.3	402.5	396.1	402.5	402.5
55°	681.5	596.6	510.0	428.2	372.0	335.2	315.9	309.5	306.3	311.1	311.1
57.5°	562.9	490.7	410.6	336.8	280.7	255.0	240.5	232.5	230.9	234.1	230.9
60°	461.8	400.9	331.9	264.6	221.3	194.1	182.8	179.6	176.4	179.6	179.6
62.5°	365.6	314.3	258.1	206.9	170.0	150.8	137.9	137.9	136.3	136.3	137.9
65°	271.0	230.9	190.8	147.5	118.7	104.2	94.6	94.6	93.0	94.6	93.0
67.5°	197.2	170.0	137.9	107.5	85.0	77.0	70.6	65.7	69.0	65.7	64.2
70°	144.4	121.8	99.4	81.8	65.7	57.8	52.9	51.3	48.1	48.1	48.1
72.5°	96.2	81.8	67.3	52.9	43.3	35.2	33.7	30.5	27.3	28.8	32.1
75°	64.2	54.5	48.1	38.5	28.8	28.8	19.3	19.3	16.0	19.3	14.5
77.5°	44.9	36.9	28.8	24.0	19.3	17.6	12.8	12.8	11.2	11.2	11.2
80°	32.1	27.3	20.9	17.6	12.8	12.8	11.2	9.6	8.0	8.0	9.6
82.5°	19.3	14.5	14.5	12.8	8.0	6.4	4.8	6.4	3.2	3.2	3.2
85°	11.2	9.6	8.0	4.8	3.2	3.2	1.6	0.0	1.6	1.6	0.0
87.5°	6.4	3.2	3.2	1.6	0.0	1.6	1.6	0.0	0.0	0.0	3.2
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: P248876

CATALOG NUMBER: LSR8B70D010 EC8B70830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2
2.5°	3303.4	3301.8	3305.0	3305.0	3314.7	3313.0	3317.8	3317.8	3314.7	3316.3	3322.7
5°	3314.7	3319.5	3329.1	3337.1	3351.5	3358.0	3366.0	3374.0	3375.6	3380.4	3385.2
7.5°	3314.7	3330.7	3341.9	3356.3	3375.6	3386.8	3404.4	3418.9	3425.3	3433.3	3442.9
10°	3308.2	3324.2	3345.1	3361.1	3385.2	3402.9	3420.5	3442.9	3452.6	3465.4	3478.2
12.5°	3295.4	3313.0	3335.5	3356.3	3383.6	3399.6	3422.1	3442.9	3457.4	3475.0	3489.5
15°	3276.2	3297.0	3317.8	3338.7	3367.5	3386.8	3407.7	3431.7	3446.2	3465.4	3478.2
17.5°	3245.7	3268.1	3287.4	3306.6	3333.9	3356.3	3375.6	3398.0	3412.5	3428.5	3446.2
20°	3208.8	3229.7	3250.5	3266.5	3293.8	3313.0	3333.9	3354.7	3366.0	3369.2	3396.4
22.5°	3162.3	3176.7	3192.8	3218.4	3234.5	3252.1	3271.4	3290.6	3301.8	3319.5	3329.1
25°	3085.3	3099.8	3117.4	3128.6	3147.9	3162.3	3181.5	3202.4	3208.8	3221.7	3231.2
27.5°	2977.9	2985.9	2993.9	3003.5	3014.7	3022.8	3034.0	3043.6	3050.1	3056.5	3062.9
30°	2807.9	2807.9	2807.9	2801.5	2806.3	2811.1	2812.7	2811.1	2811.1	2809.5	2809.5
32.5°	2583.4	2570.6	2556.1	2543.3	2538.5	2532.1	2528.9	2524.1	2516.1	2511.2	2512.8
35°	2280.3	2251.5	2233.8	2217.8	2205.0	2195.3	2190.5	2185.7	2184.1	2177.7	2171.3
37.5°	1901.9	1881.0	1868.2	1858.6	1847.4	1837.7	1839.3	1841.0	1845.7	1842.5	1844.1
40°	1501.0	1496.1	1501.0	1489.7	1486.5	1489.7	1497.7	1509.0	1515.4	1521.8	1533.0
42.5°	1141.8	1149.8	1161.0	1161.0	1165.8	1172.3	1181.8	1199.5	1209.1	1220.3	1233.2
45°	859.5	869.2	883.6	888.4	891.6	899.6	910.9	925.3	931.7	941.3	952.5
47.5°	662.3	668.7	676.7	684.7	692.7	696.0	707.2	707.2	715.2	721.6	724.8
50°	516.4	522.8	529.2	534.0	537.2	542.0	545.2	550.0	551.6	554.8	556.4
52.5°	404.1	412.1	412.1	415.3	420.1	424.9	423.4	424.9	426.5	426.5	431.3
55°	315.9	315.9	320.7	320.7	324.0	322.3	324.0	324.0	324.0	324.0	325.5
57.5°	235.7	237.4	242.2	238.9	237.4	240.5	237.4	240.5	238.9	242.2	237.4
60°	181.2	181.2	182.8	182.8	184.4	184.4	184.4	182.8	182.8	181.2	181.2
62.5°	136.3	137.9	139.5	137.9	137.9	137.9	136.3	136.3	134.7	133.1	133.1
65°	91.4	89.8	93.0	89.8	91.4	91.4	89.8	91.4	86.6	88.2	86.6
67.5°	65.7	64.2	62.6	64.2	62.6	60.9	60.9	62.6	64.2	59.3	59.3
70°	43.3	44.9	43.3	44.9	46.5	46.5	44.9	43.3	44.9	41.7	43.3
72.5°	27.3	27.3	27.3	27.3	27.3	28.8	28.8	28.8	25.7	25.7	24.0
75°	12.8	17.6	14.5	12.8	17.6	17.6	16.0	16.0	14.5	14.5	14.5
77.5°	12.8	9.6	9.6	9.6	9.6	9.6	9.6	9.6	8.0	9.6	8.0
80°	6.4	6.4	6.4	4.8	6.4	6.4	8.0	6.4	6.4	4.8	8.0
82.5°	3.2	3.2	3.2	0.0	1.6	3.2	3.2	1.6	3.2	3.2	1.6
85°	0.0	0.0	0.0	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	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: P248876

CATALOG NUMBER: LSR8B70D010 EC8B70830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2
2.5°	3321.1	3319.5	3321.1	3322.7	3321.1	3319.5	3321.1	3322.7	3316.3	3314.7	3317.8
5°	3391.6	3391.6	3394.8	3396.4	3394.8	3391.6	3391.6	3385.2	3380.4	3375.6	3374.0
7.5°	3452.6	3455.8	3459.0	3460.5	3459.0	3455.8	3452.6	3442.9	3433.3	3425.3	3418.9
10°	3489.5	3494.3	3500.7	3503.8	3500.7	3494.3	3489.5	3478.2	3465.4	3452.6	3442.9
12.5°	3505.5	3510.3	3518.3	3516.7	3518.3	3510.3	3505.5	3489.5	3475.0	3457.4	3442.9
15°	3494.3	3500.7	3508.7	3511.9	3508.7	3500.7	3494.3	3478.2	3465.4	3446.2	3431.7
17.5°	3459.0	3468.6	3473.4	3478.2	3473.4	3468.6	3459.0	3446.2	3428.5	3412.5	3398.0
20°	3410.8	3417.3	3423.7	3425.3	3423.7	3417.3	3410.8	3396.4	3369.2	3366.0	3354.7
22.5°	3341.9	3346.7	3361.1	3356.3	3361.1	3346.7	3341.9	3329.1	3319.5	3301.8	3290.6
25°	3242.5	3247.3	3248.9	3250.5	3248.9	3247.3	3242.5	3231.2	3221.7	3208.8	3202.4
27.5°	3070.9	3070.9	3074.1	3075.7	3074.1	3070.9	3070.9	3062.9	3056.5	3050.1	3043.6
30°	2811.1	2811.1	2811.1	2819.2	2811.1	2811.1	2811.1	2809.5	2809.5	2811.1	2811.1
32.5°	2511.2	2508.0	2504.8	2508.0	2504.8	2508.0	2511.2	2512.8	2511.2	2516.1	2524.1
35°	2171.3	2169.7	2174.5	2168.1	2174.5	2169.7	2171.3	2171.3	2177.7	2184.1	2185.7
37.5°	1845.7	1842.5	1848.9	1842.5	1848.9	1842.5	1845.7	1844.1	1842.5	1845.7	1841.0
40°	1536.3	1539.4	1539.4	1552.3	1539.4	1539.4	1536.3	1533.0	1521.8	1515.4	1509.0
42.5°	1239.6	1249.2	1246.0	1255.6	1246.0	1249.2	1239.6	1233.2	1220.3	1209.1	1199.5
45°	958.9	965.4	965.4	968.6	965.4	965.4	958.9	952.5	941.3	931.7	925.3
47.5°	736.0	736.0	736.0	737.7	736.0	736.0	736.0	724.8	721.6	715.2	707.2
50°	559.7	561.2	562.9	564.5	562.9	561.2	559.7	556.4	554.8	551.6	550.0
52.5°	429.8	431.3	428.2	431.3	428.2	431.3	429.8	431.3	426.5	426.5	424.9
55°	325.5	324.0	325.5	327.1	325.5	324.0	325.5	325.5	324.0	324.0	324.0
57.5°	238.9	235.7	235.7	235.7	235.7	235.7	238.9	237.4	242.2	238.9	240.5
60°	178.0	179.6	179.6	181.2	179.6	179.6	178.0	181.2	181.2	182.8	182.8
62.5°	131.5	136.3	133.1	136.3	133.1	136.3	131.5	133.1	133.1	134.7	136.3
65°	85.0	85.0	85.0	86.6	85.0	85.0	85.0	86.6	88.2	86.6	91.4
67.5°	57.8	59.3	62.6	60.9	62.6	59.3	57.8	59.3	59.3	64.2	62.6
70°	46.5	41.7	41.7	46.5	41.7	41.7	46.5	43.3	41.7	44.9	43.3
72.5°	27.3	24.0	27.3	27.3	27.3	24.0	27.3	24.0	25.7	25.7	28.8
75°	14.5	12.8	11.2	16.0	11.2	12.8	14.5	14.5	14.5	14.5	16.0
77.5°	9.6	8.0	11.2	11.2	11.2	8.0	9.6	8.0	9.6	8.0	9.6
80°	4.8	6.4	4.8	8.0	4.8	6.4	4.8	8.0	4.8	6.4	6.4
82.5°	1.6	3.2	3.2	3.2	3.2	3.2	1.6	1.6	3.2	3.2	1.6
85°	0.0	3.2	1.6	1.6	1.6	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.0	0.0	1.6	0.0	0.0	1.6	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: P248876

CATALOG NUMBER: LSR8B70D010 EC8B70830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2
2.5°	3317.8	3313.0	3314.7	3305.0	3305.0	3301.8	3303.4	3295.4	3292.2	3289.0	3293.8
5°	3366.0	3358.0	3351.5	3337.1	3329.1	3319.5	3314.7	3301.8	3290.6	3280.9	3279.4
7.5°	3404.4	3386.8	3375.6	3356.3	3341.9	3330.7	3314.7	3297.0	3282.6	3269.7	3260.1
10°	3420.5	3402.9	3385.2	3361.1	3345.1	3324.2	3308.2	3285.8	3266.5	3248.9	3237.6
12.5°	3422.1	3399.6	3383.6	3356.3	3335.5	3313.0	3295.4	3269.7	3247.3	3229.7	3212.0
15°	3407.7	3386.8	3367.5	3338.7	3317.8	3297.0	3276.2	3248.9	3228.1	3207.2	3194.4
17.5°	3375.6	3356.3	3333.9	3306.6	3287.4	3268.1	3245.7	3223.3	3199.2	3176.7	3160.7
20°	3333.9	3313.0	3293.8	3266.5	3250.5	3229.7	3208.8	3184.8	3165.5	3143.1	3125.4
22.5°	3271.4	3252.1	3234.5	3218.4	3192.8	3176.7	3162.3	3135.1	3115.8	3094.9	3075.7
25°	3181.5	3162.3	3147.9	3128.6	3117.4	3099.8	3085.3	3061.3	3043.6	3024.4	3008.3
27.5°	3034.0	3022.8	3014.7	3003.5	2993.9	2985.9	2977.9	2958.6	2945.8	2928.2	2912.2
30°	2812.7	2811.1	2806.3	2801.5	2807.9	2807.9	2807.9	2804.7	2793.5	2780.6	2769.4
32.5°	2528.9	2532.1	2538.5	2543.3	2556.1	2570.6	2583.4	2589.8	2589.8	2581.8	2577.0
35°	2190.5	2195.3	2205.0	2217.8	2233.8	2251.5	2280.3	2286.8	2291.5	2291.5	2285.1
37.5°	1839.3	1837.7	1847.4	1858.6	1868.2	1881.0	1901.9	1906.7	1914.7	1911.5	1905.1
40°	1497.7	1489.7	1486.5	1489.7	1501.0	1496.1	1501.0	1497.7	1497.7	1486.5	1486.5
42.5°	1181.8	1172.3	1165.8	1161.0	1161.0	1149.8	1141.8	1133.8	1129.0	1120.9	1119.3
45°	910.9	899.6	891.6	888.4	883.6	869.2	859.5	849.9	838.7	835.5	837.1
47.5°	707.2	696.0	692.7	684.7	676.7	668.7	662.3	651.1	649.4	643.0	649.4
50°	545.2	542.0	537.2	534.0	529.2	522.8	516.4	510.0	506.7	506.7	508.3
52.5°	423.4	424.9	420.1	415.3	412.1	412.1	404.1	402.5	402.5	396.1	402.5
55°	324.0	322.3	324.0	320.7	320.7	315.9	315.9	311.1	311.1	306.3	309.5
57.5°	237.4	240.5	237.4	238.9	242.2	237.4	235.7	230.9	234.1	230.9	232.5
60°	184.4	184.4	184.4	182.8	182.8	181.2	181.2	179.6	179.6	176.4	179.6
62.5°	136.3	137.9	137.9	137.9	139.5	137.9	136.3	137.9	136.3	136.3	137.9
65°	89.8	91.4	91.4	89.8	93.0	89.8	91.4	93.0	94.6	93.0	94.6
67.5°	60.9	60.9	62.6	64.2	62.6	64.2	65.7	64.2	65.7	69.0	65.7
70°	44.9	46.5	46.5	44.9	43.3	44.9	43.3	48.1	48.1	48.1	51.3
72.5°	28.8	28.8	27.3	27.3	27.3	27.3	27.3	32.1	28.8	27.3	30.5
75°	16.0	17.6	17.6	12.8	14.5	17.6	12.8	14.5	19.3	16.0	19.3
77.5°	9.6	9.6	9.6	9.6	9.6	9.6	12.8	11.2	11.2	11.2	12.8
80°	8.0	6.4	6.4	4.8	6.4	6.4	6.4	9.6	8.0	8.0	9.6
82.5°	3.2	3.2	1.6	0.0	3.2	3.2	3.2	3.2	3.2	3.2	6.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	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: P248876

CATALOG NUMBER: LSR8B70D010 EC8B70830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2
2.5°	3280.9	3280.9	3279.4	3276.2	3269.7	3269.7	3268.1	3263.3	3260.1	3258.5	3258.5
5°	3264.9	3258.5	3252.1	3234.5	3234.5	3231.2	3221.7	3215.2	3212.0	3204.0	3200.8
7.5°	3250.5	3231.2	3220.0	3208.8	3194.4	3187.9	3176.7	3171.9	3160.7	3152.7	3147.9
10°	3215.2	3202.4	3187.9	3170.3	3159.1	3146.3	3133.4	3123.8	3109.4	3101.3	3094.9
12.5°	3191.2	3171.9	3159.1	3139.8	3120.6	3109.4	3091.8	3080.5	3066.1	3050.1	3040.4
15°	3168.7	3147.9	3130.2	3109.4	3088.5	3075.7	3054.9	3042.1	3021.2	3005.2	2993.9
17.5°	3135.1	3117.4	3098.2	3072.5	3053.3	3037.2	3014.7	2998.8	2979.5	2958.6	2947.4
20°	3099.8	3078.9	3059.7	3034.0	3014.7	2995.5	2973.1	2955.5	2933.0	2913.7	2900.9
22.5°	3053.3	3029.2	3013.2	2987.5	2965.0	2944.2	2923.4	2902.5	2881.7	2865.6	2851.2
25°	2985.9	2960.2	2942.6	2921.7	2900.9	2884.9	2859.2	2846.4	2825.6	2811.1	2796.7
27.5°	2889.7	2870.5	2854.4	2833.6	2815.9	2803.1	2783.9	2771.0	2753.4	2740.6	2729.3
30°	2748.6	2732.6	2718.1	2697.3	2684.4	2673.2	2655.5	2644.3	2631.5	2617.1	2613.9
32.5°	2559.4	2546.5	2532.1	2517.7	2508.0	2501.6	2487.2	2480.8	2467.9	2459.9	2451.9
35°	2273.9	2262.7	2254.7	2248.3	2245.0	2246.6	2243.5	2249.9	2253.0	2251.5	2253.0
37.5°	1900.3	1893.8	1897.1	1901.9	1917.9	1938.8	1958.0	1986.8	2006.1	2025.4	2043.0
40°	1483.3	1488.2	1501.0	1529.8	1571.5	1618.1	1661.4	1715.9	1770.4	1808.9	1844.1
42.5°	1119.3	1133.8	1165.8	1207.5	1270.1	1339.0	1406.4	1486.5	1552.3	1616.4	1661.4
45°	841.9	861.1	902.8	960.6	1029.5	1109.7	1194.7	1284.5	1363.1	1428.8	1478.5
47.5°	655.9	673.5	715.2	776.2	861.1	944.5	1032.7	1125.7	1207.5	1271.7	1315.0
50°	517.9	540.4	577.3	641.4	726.5	814.6	906.1	997.4	1074.4	1129.0	1167.4
52.5°	407.3	428.2	463.4	530.8	617.4	705.6	790.5	880.4	947.7	1000.6	1026.3
55°	315.9	335.2	372.0	428.2	510.0	596.6	681.5	758.5	821.0	859.5	883.6
57.5°	240.5	255.0	280.7	336.8	410.6	490.7	562.9	639.9	688.0	715.2	731.2
60°	182.8	194.1	221.3	264.6	331.9	400.9	461.8	519.6	558.1	580.5	596.6
62.5°	137.9	150.8	170.0	206.9	258.1	314.3	365.6	408.9	441.0	455.4	466.7
65°	94.6	104.2	118.7	147.5	190.8	230.9	271.0	303.1	324.0	340.0	346.4
67.5°	70.6	77.0	85.0	107.5	137.9	170.0	197.2	219.7	242.2	248.6	259.8
70°	52.9	57.8	65.7	81.8	99.4	121.8	144.4	157.2	173.2	184.4	187.7
72.5°	33.7	35.2	43.3	52.9	67.3	81.8	96.2	107.5	117.1	123.5	126.7
75°	19.3	28.8	28.8	38.5	48.1	54.5	64.2	72.1	77.0	81.8	81.8
77.5°	12.8	17.6	19.3	24.0	28.8	36.9	44.9	49.7	54.5	56.1	56.1
80°	11.2	12.8	12.8	17.6	20.9	27.3	32.1	33.7	36.9	38.5	41.7
82.5°	4.8	6.4	8.0	12.8	14.5	14.5	19.3	20.9	24.0	25.7	25.7
85°	1.6	3.2	3.2	4.8	8.0	9.6	11.2	12.8	14.5	14.5	16.0
87.5°	1.6	1.6	0.0	1.6	3.2	3.2	6.4	6.4	6.4	9.6	9.6
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: P248876

CATALOG NUMBER: LSR8B70D010 EC8B70830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2	3284.2
2.5°	3255.3	3256.9	3250.5	3248.9	3245.7	3247.3	3250.5
5°	3196.0	3197.6	3191.2	3184.8	3184.8	3183.1	3184.8
7.5°	3139.8	3141.5	3131.8	3128.6	3122.2	3123.8	3123.8
10°	3083.7	3083.7	3069.3	3067.7	3062.9	3061.3	3061.3
12.5°	3029.2	3024.4	3013.2	3006.8	3010.0	3000.3	3000.3
15°	2981.1	2973.1	2958.6	2953.8	2945.8	2942.6	2942.6
17.5°	2931.4	2925.0	2912.2	2902.5	2892.9	2891.3	2892.9
20°	2883.3	2876.9	2860.8	2854.4	2846.4	2846.4	2843.2
22.5°	2835.1	2828.7	2814.3	2809.5	2798.3	2798.3	2799.9
25°	2785.4	2780.6	2764.6	2761.4	2759.8	2753.4	2756.6
27.5°	2718.1	2714.9	2702.1	2697.3	2690.8	2689.3	2692.4
30°	2594.6	2589.8	2580.2	2575.4	2564.2	2565.8	2568.9
32.5°	2440.7	2434.3	2421.4	2416.6	2407.0	2403.8	2405.4
35°	2248.3	2243.5	2232.2	2232.2	2222.6	2219.4	2222.6
37.5°	2052.6	2057.4	2052.6	2057.4	2052.6	2051.0	2052.6
40°	1868.2	1885.8	1889.0	1906.7	1900.3	1909.9	1908.3
42.5°	1691.8	1720.6	1731.9	1746.3	1743.1	1749.5	1754.4
45°	1513.8	1537.9	1549.1	1558.7	1560.3	1563.5	1565.1
47.5°	1345.4	1364.7	1366.2	1377.5	1375.9	1375.9	1380.7
50°	1188.3	1201.1	1204.3	1212.3	1205.9	1202.7	1204.3
52.5°	1042.4	1055.2	1051.9	1055.2	1047.2	1043.9	1045.5
55°	893.2	899.6	899.6	899.6	890.0	890.0	890.0
57.5°	740.8	742.5	739.3	740.8	739.3	729.6	728.0
60°	601.4	601.4	599.7	601.4	596.6	591.7	591.7
62.5°	469.8	473.1	479.5	473.1	469.8	473.1	468.2
65°	351.2	357.6	356.0	359.2	357.6	357.6	354.4
67.5°	264.6	266.2	267.8	269.4	269.4	269.4	269.4
70°	194.1	198.9	197.2	197.2	197.2	197.2	206.9
72.5°	129.9	136.3	134.7	137.9	137.9	141.1	137.9
75°	88.2	94.6	91.4	96.2	94.6	91.4	99.4
77.5°	59.3	62.6	64.2	65.7	64.2	62.6	64.2
80°	41.7	44.9	43.3	44.9	44.9	44.9	46.5
82.5°	25.7	30.5	28.8	30.5	28.8	30.5	30.5
85°	17.6	19.3	16.0	19.3	17.6	17.6	20.9
87.5°	11.2	9.6	9.6	11.2	9.6	11.2	9.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)