

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: P248968

Luminaire Tested: **LSR8B90D010 EC8B909730 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248968
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: LSR8B90D010 EC8B909730 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5306.0 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

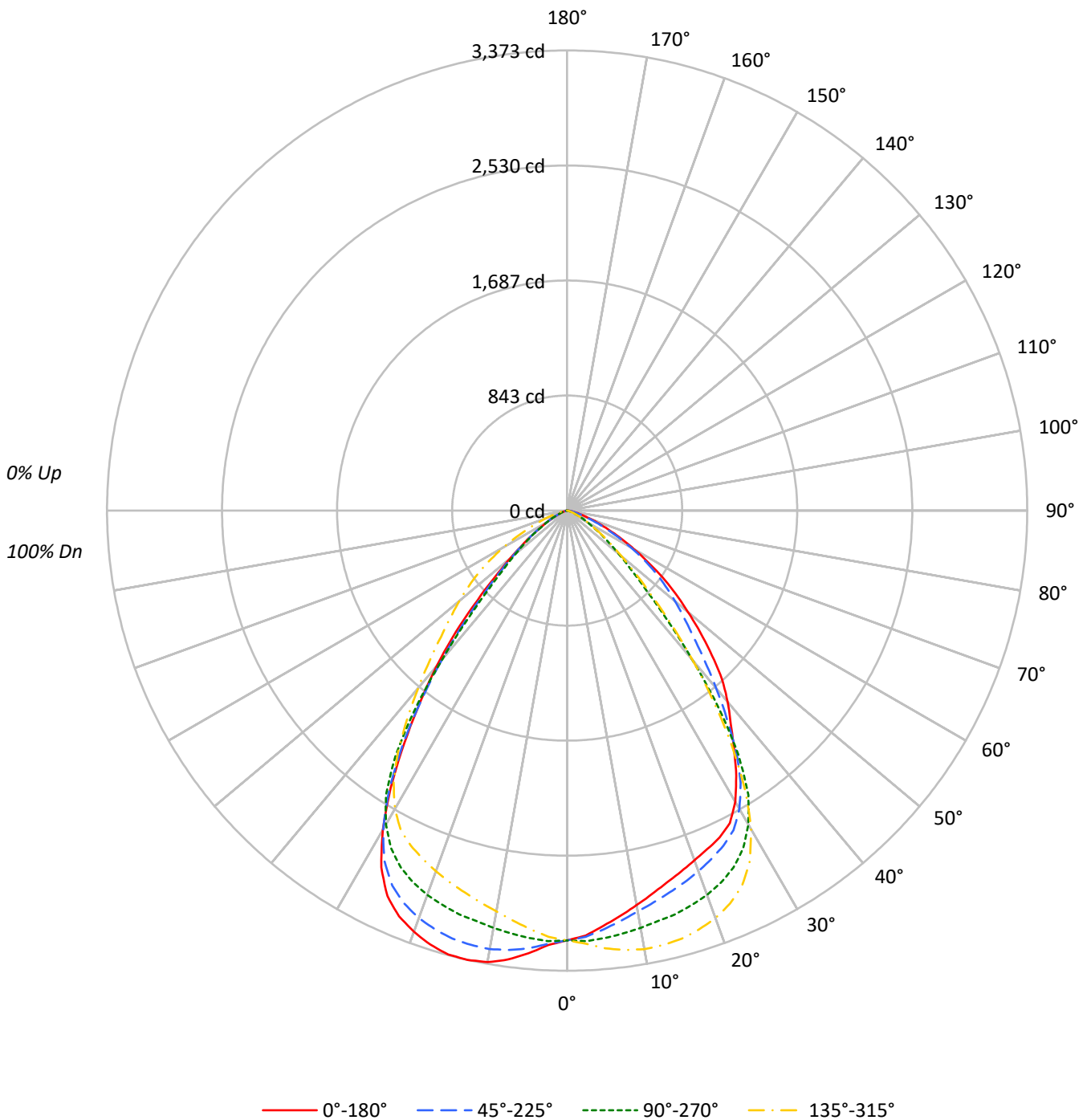
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
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°	299.8	5.7
10°-20°	868.2	16.4
20°-30°	1314.7	24.8
30°-40°	1317.6	24.8
40°-50°	827.4	15.6
50°-60°	440.9	8.3
60°-70°	181.3	3.4
70°-80°	47.9	0.9
80°-90°	8.1	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°	2482.7	46.8
0°-40°	3800.4	71.6
0°-60°	5068.7	95.5
0°-90°	5306.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5306.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3150	3150	3150	3150	3150	
5°	3055	3145	3258	3145	3055	288
15°	2822	3064	3368	3064	2822	798
25°	2644	2885	3118	2885	2644	1213
35°	2132	2192	2080	2192	2132	1336
45°	1501	803	929	803	1501	1155
55°	854	297	314	297	854	761
65°	340	91	83	91	340	353
75°	95	18	15	18	95	108
85°	20	0	2	0	20	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0
2.5°	3117.7	3114.6	3113.1	3116.2	3117.7	3123.9	3122.3	3125.4	3125.4	3127.0	3130.0
5°	3054.7	3053.1	3054.7	3054.7	3060.8	3066.9	3065.4	3070.0	3073.1	3080.8	3083.8
7.5°	2996.2	2996.2	2994.6	3000.8	3003.9	3013.1	3011.5	3019.3	3023.9	3031.6	3042.3
10°	2936.2	2936.2	2937.7	2942.4	2943.9	2957.7	2957.7	2968.5	2974.6	2982.4	2996.2
12.5°	2877.8	2877.8	2887.0	2883.9	2890.1	2900.8	2905.4	2916.2	2925.4	2940.8	2954.7
15°	2822.4	2822.4	2825.5	2833.1	2837.8	2851.6	2859.3	2871.6	2882.4	2897.8	2917.8
17.5°	2774.7	2773.2	2774.7	2784.0	2793.2	2805.5	2811.6	2827.0	2837.8	2857.8	2876.3
20°	2727.0	2730.1	2730.1	2737.8	2743.9	2759.3	2765.5	2782.4	2794.7	2813.1	2834.7
22.5°	2685.5	2684.0	2684.0	2694.7	2699.4	2713.2	2719.3	2734.7	2748.6	2763.9	2784.0
25°	2644.0	2640.9	2647.1	2648.6	2651.6	2667.0	2671.6	2682.4	2696.3	2710.1	2730.1
27.5°	2582.4	2579.4	2580.9	2587.1	2591.7	2604.0	2607.1	2617.8	2628.6	2640.9	2657.8
30°	2464.0	2460.9	2459.4	2470.2	2474.8	2484.0	2488.6	2507.1	2510.1	2524.0	2536.3
32.5°	2307.1	2305.6	2308.7	2317.9	2322.5	2334.8	2341.0	2351.7	2359.4	2367.1	2379.4
35°	2131.8	2128.7	2131.8	2141.0	2141.0	2151.8	2156.4	2161.0	2159.5	2161.0	2158.0
37.5°	1968.8	1967.2	1968.8	1973.3	1968.8	1973.3	1968.8	1959.5	1942.6	1924.2	1905.7
40°	1830.3	1831.8	1822.7	1828.8	1811.8	1808.8	1791.9	1768.8	1735.0	1698.1	1645.8
42.5°	1682.7	1678.1	1671.9	1675.0	1661.2	1650.3	1622.7	1593.5	1550.4	1488.9	1425.8
45°	1501.2	1499.7	1496.6	1495.0	1485.8	1475.0	1451.9	1418.1	1370.5	1307.4	1232.0
47.5°	1324.3	1319.7	1319.7	1321.2	1310.4	1308.9	1290.4	1261.2	1219.7	1158.2	1079.7
50°	1155.1	1153.6	1156.7	1162.8	1155.1	1152.0	1139.8	1119.7	1082.8	1030.5	956.7
52.5°	1002.8	1001.3	1004.4	1012.1	1009.0	1012.1	999.8	984.4	959.8	909.0	844.4
55°	853.7	853.7	853.7	862.8	862.8	862.8	856.7	847.5	824.4	787.5	727.5
57.5°	698.3	699.8	709.1	710.6	709.1	712.2	710.6	701.3	686.0	659.9	613.7
60°	567.6	567.6	572.2	576.8	575.2	576.8	576.8	572.2	556.8	535.3	498.4
62.5°	449.1	453.7	450.6	453.7	459.9	453.7	450.6	447.6	436.8	423.0	392.2
65°	339.9	343.0	343.0	344.5	341.4	343.0	336.9	332.2	326.1	310.7	290.7
67.5°	258.4	258.4	258.4	258.4	256.8	255.3	253.8	249.2	238.4	232.3	210.7
70°	198.4	189.2	189.2	189.2	189.2	190.8	186.1	180.0	176.9	166.1	150.7
72.5°	132.3	135.4	132.3	132.3	129.2	130.7	124.6	121.5	118.5	112.3	103.1
75°	95.3	87.7	90.7	92.3	87.7	90.7	84.6	78.4	78.4	73.8	69.2
77.5°	61.5	60.0	61.5	63.1	61.5	60.0	56.9	53.8	53.8	52.3	47.7
80°	44.6	43.1	43.1	43.1	41.5	43.1	40.0	40.0	36.9	35.4	32.3
82.5°	29.2	29.2	27.7	29.2	27.7	29.2	24.6	24.6	24.6	23.0	20.0
85°	20.0	16.9	16.9	18.5	15.4	18.5	16.9	15.4	13.9	13.9	12.3
87.5°	9.2	10.8	9.2	10.8	9.2	9.2	10.8	9.2	9.2	6.1	6.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0
2.5°	3134.6	3136.1	3136.1	3142.3	3145.4	3146.9	3146.9	3159.2	3154.6	3157.7	3160.8
5°	3090.1	3099.2	3102.3	3102.3	3119.2	3125.4	3131.5	3145.4	3146.9	3156.1	3166.9
7.5°	3046.9	3057.7	3063.9	3077.7	3088.5	3099.2	3117.7	3127.0	3136.1	3148.5	3162.3
10°	3005.4	3017.8	3030.0	3040.8	3057.7	3071.6	3083.8	3105.4	3116.2	3133.1	3151.5
12.5°	2965.5	2982.4	2993.1	3011.5	3030.0	3042.3	3060.8	3080.8	3097.7	3114.6	3136.1
15°	2930.1	2950.1	2962.4	2982.4	3002.4	3019.3	3039.3	3063.9	3076.2	3096.2	3116.2
17.5°	2891.6	2913.2	2928.5	2947.0	2971.6	2990.0	3007.0	3031.6	3046.9	3068.5	3091.6
20°	2851.6	2873.2	2891.6	2910.1	2934.7	2953.1	2973.1	2997.7	3014.6	3036.2	3054.7
22.5°	2804.0	2824.0	2843.9	2865.4	2890.1	2905.4	2928.5	2950.1	2968.5	2988.5	3007.0
25°	2742.4	2767.0	2782.4	2802.4	2822.4	2839.3	2863.9	2885.4	2900.8	2919.3	2936.2
27.5°	2670.1	2688.6	2700.9	2717.8	2737.8	2753.2	2771.6	2793.2	2808.6	2825.5	2837.8
30°	2547.0	2564.0	2574.8	2587.1	2607.1	2620.9	2636.3	2656.3	2667.0	2679.4	2690.1
32.5°	2385.5	2399.4	2405.6	2414.8	2428.7	2442.5	2454.8	2471.7	2476.3	2484.0	2484.0
35°	2151.8	2154.8	2153.3	2156.4	2162.6	2170.2	2181.0	2191.8	2197.9	2197.9	2193.3
37.5°	1878.0	1859.6	1839.6	1824.2	1819.6	1816.5	1822.7	1827.2	1833.4	1836.5	1828.8
40°	1593.5	1552.0	1507.3	1467.3	1439.6	1427.4	1422.7	1425.8	1425.8	1436.5	1436.5
42.5°	1348.9	1284.3	1218.2	1158.2	1118.2	1087.5	1073.6	1073.6	1075.1	1082.8	1087.5
45°	1145.9	1064.4	987.4	921.3	865.9	825.9	807.5	802.9	801.4	804.4	815.2
47.5°	990.5	906.0	825.9	744.5	686.0	646.0	629.1	622.9	616.8	622.9	624.5
50°	869.0	781.4	696.8	615.2	553.7	518.3	496.8	487.5	486.0	486.0	489.1
52.5°	758.3	676.8	592.2	509.1	444.5	410.7	390.7	386.1	379.9	386.1	386.1
55°	653.7	572.2	489.1	410.7	356.8	321.5	303.0	296.9	293.8	298.4	298.4
57.5°	539.9	470.6	393.8	323.0	269.2	244.6	230.7	223.0	221.5	224.6	221.5
60°	443.0	384.5	318.4	253.8	212.3	186.1	175.4	172.3	169.2	172.3	172.3
62.5°	350.7	301.5	247.6	198.4	163.0	144.6	132.3	132.3	130.7	130.7	132.3
65°	259.9	221.5	183.0	141.5	113.8	100.0	90.7	90.7	89.2	90.7	89.2
67.5°	189.2	163.0	132.3	103.1	81.5	73.8	67.7	63.1	66.2	63.1	61.5
70°	138.5	116.9	95.3	78.4	63.1	55.4	50.8	49.2	46.2	46.2	46.2
72.5°	92.3	78.4	64.6	50.8	41.5	33.8	32.3	29.2	26.1	27.7	30.8
75°	61.5	52.3	46.2	36.9	27.7	27.7	18.5	18.5	15.4	18.5	13.9
77.5°	43.1	35.4	27.7	23.0	18.5	16.9	12.3	12.3	10.8	10.8	10.8
80°	30.8	26.1	20.0	16.9	12.3	12.3	10.8	9.2	7.7	7.7	9.2
82.5°	18.5	13.9	13.9	12.3	7.7	6.1	4.6	6.1	3.1	3.1	3.1
85°	10.8	9.2	7.7	4.6	3.1	3.1	1.5	0.0	1.5	1.5	0.0
87.5°	6.1	3.1	3.1	1.5	0.0	1.5	1.5	0.0	0.0	0.0	3.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0
2.5°	3168.5	3166.9	3170.0	3170.0	3179.3	3177.7	3182.3	3182.3	3179.3	3180.8	3186.9
5°	3179.3	3183.9	3193.1	3200.8	3214.6	3220.8	3228.4	3236.2	3237.7	3242.3	3246.9
7.5°	3179.3	3194.6	3205.4	3219.2	3237.7	3248.4	3265.4	3279.2	3285.4	3293.0	3302.3
10°	3173.0	3188.4	3208.4	3223.8	3246.9	3263.8	3280.7	3302.3	3311.5	3323.8	3336.1
12.5°	3160.8	3177.7	3199.2	3219.2	3245.3	3260.7	3282.3	3302.3	3316.1	3333.0	3346.9
15°	3142.3	3162.3	3182.3	3202.3	3230.0	3248.4	3268.5	3291.5	3305.4	3323.8	3336.1
17.5°	3113.1	3134.6	3153.1	3171.5	3197.7	3219.2	3237.7	3259.2	3273.1	3288.5	3305.4
20°	3077.7	3097.7	3117.7	3133.1	3159.2	3177.7	3197.7	3217.7	3228.4	3231.5	3257.7
22.5°	3033.1	3046.9	3062.3	3086.9	3102.3	3119.2	3137.7	3156.1	3166.9	3183.9	3193.1
25°	2959.3	2973.1	2990.0	3000.8	3019.3	3033.1	3051.6	3071.6	3077.7	3090.1	3099.2
27.5°	2856.3	2863.9	2871.6	2880.8	2891.6	2899.3	2910.1	2919.3	2925.4	2931.6	2937.7
30°	2693.2	2693.2	2693.2	2687.0	2691.6	2696.3	2697.8	2696.3	2696.3	2694.7	2694.7
32.5°	2477.9	2465.6	2451.7	2439.4	2434.8	2428.7	2425.6	2420.9	2413.3	2408.7	2410.2
35°	2187.1	2159.5	2142.6	2127.2	2114.9	2105.7	2101.0	2096.4	2094.9	2088.8	2082.6
37.5°	1824.2	1804.2	1791.9	1782.7	1771.9	1762.7	1764.2	1765.8	1770.3	1767.3	1768.8
40°	1439.6	1435.0	1439.6	1428.9	1425.8	1428.9	1436.5	1447.4	1453.5	1459.7	1470.4
42.5°	1095.1	1102.8	1113.6	1113.6	1118.2	1124.4	1133.5	1150.5	1159.7	1170.5	1182.8
45°	824.4	833.7	847.5	852.1	855.2	862.8	873.7	887.5	893.6	902.9	913.6
47.5°	635.2	641.4	649.0	656.8	664.4	667.5	678.3	678.3	686.0	692.2	695.2
50°	495.3	501.4	507.5	512.2	515.3	519.9	522.9	527.6	529.1	532.2	533.7
52.5°	387.6	395.3	395.3	398.3	403.0	407.6	406.1	407.6	409.1	409.1	413.7
55°	303.0	303.0	307.6	307.6	310.7	309.1	310.7	310.7	310.7	310.7	312.2
57.5°	226.1	227.7	232.3	229.2	227.7	230.7	227.7	230.7	229.2	232.3	227.7
60°	173.8	173.8	175.4	175.4	176.9	176.9	176.9	175.4	175.4	173.8	173.8
62.5°	130.7	132.3	133.8	132.3	132.3	132.3	130.7	130.7	129.2	127.6	127.6
65°	87.7	86.2	89.2	86.2	87.7	87.7	86.2	87.7	83.1	84.6	83.1
67.5°	63.1	61.5	60.0	61.5	60.0	58.4	58.4	60.0	61.5	56.9	56.9
70°	41.5	43.1	41.5	43.1	44.6	44.6	43.1	41.5	43.1	40.0	41.5
72.5°	26.1	26.1	26.1	26.1	26.1	27.7	27.7	27.7	24.6	24.6	23.0
75°	12.3	16.9	13.9	12.3	16.9	16.9	15.4	15.4	13.9	13.9	13.9
77.5°	12.3	9.2	9.2	9.2	9.2	9.2	9.2	9.2	7.7	9.2	7.7
80°	6.1	6.1	6.1	4.6	6.1	6.1	7.7	6.1	6.1	4.6	7.7
82.5°	3.1	3.1	3.1	0.0	1.5	3.1	3.1	1.5	3.1	3.1	1.5
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: P248968

CATALOG NUMBER: LSR8B90D010 EC8B909730 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0
2.5°	3185.4	3183.9	3185.4	3186.9	3185.4	3183.9	3185.4	3186.9	3180.8	3179.3	3182.3
5°	3253.1	3253.1	3256.1	3257.7	3256.1	3253.1	3253.1	3246.9	3242.3	3237.7	3236.2
7.5°	3311.5	3314.6	3317.6	3319.2	3317.6	3314.6	3311.5	3302.3	3293.0	3285.4	3279.2
10°	3346.9	3351.5	3357.7	3360.7	3357.7	3351.5	3346.9	3336.1	3323.8	3311.5	3302.3
12.5°	3362.3	3366.9	3374.6	3373.0	3374.6	3366.9	3362.3	3346.9	3333.0	3316.1	3302.3
15°	3351.5	3357.7	3365.3	3368.4	3365.3	3357.7	3351.5	3336.1	3323.8	3305.4	3291.5
17.5°	3317.6	3326.9	3331.5	3336.1	3331.5	3326.9	3317.6	3305.4	3288.5	3273.1	3259.2
20°	3271.5	3277.7	3283.8	3285.4	3283.8	3277.7	3271.5	3257.7	3231.5	3228.4	3217.7
22.5°	3205.4	3210.0	3223.8	3219.2	3223.8	3210.0	3205.4	3193.1	3183.9	3166.9	3156.1
25°	3110.0	3114.6	3116.2	3117.7	3116.2	3114.6	3110.0	3099.2	3090.1	3077.7	3071.6
27.5°	2945.5	2945.5	2948.5	2950.1	2948.5	2945.5	2945.5	2937.7	2931.6	2925.4	2919.3
30°	2696.3	2696.3	2696.3	2704.0	2696.3	2696.3	2696.3	2694.7	2694.7	2696.3	2696.3
32.5°	2408.7	2405.6	2402.5	2405.6	2402.5	2405.6	2408.7	2410.2	2408.7	2413.3	2420.9
35°	2082.6	2081.0	2085.7	2079.5	2085.7	2081.0	2082.6	2082.6	2088.8	2094.9	2096.4
37.5°	1770.3	1767.3	1773.4	1767.3	1773.4	1767.3	1770.3	1768.8	1767.3	1770.3	1765.8
40°	1473.5	1476.6	1476.6	1488.9	1476.6	1476.6	1473.5	1470.4	1459.7	1453.5	1447.4
42.5°	1188.9	1198.2	1195.1	1204.3	1195.1	1198.2	1188.9	1182.8	1170.5	1159.7	1150.5
45°	919.8	926.0	926.0	929.0	926.0	926.0	919.8	913.6	902.9	893.6	887.5
47.5°	706.0	706.0	706.0	707.5	706.0	706.0	706.0	695.2	692.2	686.0	678.3
50°	536.8	538.3	539.9	541.4	539.9	538.3	536.8	533.7	532.2	529.1	527.6
52.5°	412.2	413.7	410.7	413.7	410.7	413.7	412.2	413.7	409.1	409.1	407.6
55°	312.2	310.7	312.2	313.8	312.2	310.7	312.2	312.2	310.7	310.7	310.7
57.5°	229.2	226.1	226.1	226.1	226.1	226.1	229.2	227.7	232.3	229.2	230.7
60°	170.7	172.3	172.3	173.8	172.3	172.3	170.7	173.8	173.8	175.4	175.4
62.5°	126.1	130.7	127.6	130.7	127.6	130.7	126.1	127.6	127.6	129.2	130.7
65°	81.5	81.5	81.5	83.1	81.5	81.5	81.5	83.1	84.6	83.1	87.7
67.5°	55.4	56.9	60.0	58.4	60.0	56.9	55.4	56.9	56.9	61.5	60.0
70°	44.6	40.0	40.0	44.6	40.0	40.0	44.6	41.5	40.0	43.1	41.5
72.5°	26.1	23.0	26.1	26.1	26.1	23.0	26.1	23.0	24.6	24.6	27.7
75°	13.9	12.3	10.8	15.4	10.8	12.3	13.9	13.9	13.9	13.9	15.4
77.5°	9.2	7.7	10.8	10.8	10.8	7.7	9.2	7.7	9.2	7.7	9.2
80°	4.6	6.1	4.6	7.7	4.6	6.1	4.6	7.7	4.6	6.1	6.1
82.5°	1.5	3.1	3.1	3.1	3.1	3.1	1.5	1.5	3.1	3.1	1.5
85°	0.0	3.1	1.5	1.5	1.5	3.1	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.0	0.0	1.5	0.0	0.0	1.5	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: P248968

CATALOG NUMBER: LSR8B90D010 EC8B909730 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0
2.5°	3182.3	3177.7	3179.3	3170.0	3170.0	3166.9	3168.5	3160.8	3157.7	3154.6	3159.2
5°	3228.4	3220.8	3214.6	3200.8	3193.1	3183.9	3179.3	3166.9	3156.1	3146.9	3145.4
7.5°	3265.4	3248.4	3237.7	3219.2	3205.4	3194.6	3179.3	3162.3	3148.5	3136.1	3127.0
10°	3280.7	3263.8	3246.9	3223.8	3208.4	3188.4	3173.0	3151.5	3133.1	3116.2	3105.4
12.5°	3282.3	3260.7	3245.3	3219.2	3199.2	3177.7	3160.8	3136.1	3114.6	3097.7	3080.8
15°	3268.5	3248.4	3230.0	3202.3	3182.3	3162.3	3142.3	3116.2	3096.2	3076.2	3063.9
17.5°	3237.7	3219.2	3197.7	3171.5	3153.1	3134.6	3113.1	3091.6	3068.5	3046.9	3031.6
20°	3197.7	3177.7	3159.2	3133.1	3117.7	3097.7	3077.7	3054.7	3036.2	3014.6	2997.7
22.5°	3137.7	3119.2	3102.3	3086.9	3062.3	3046.9	3033.1	3007.0	2988.5	2968.5	2950.1
25°	3051.6	3033.1	3019.3	3000.8	2990.0	2973.1	2959.3	2936.2	2919.3	2900.8	2885.4
27.5°	2910.1	2899.3	2891.6	2880.8	2871.6	2863.9	2856.3	2837.8	2825.5	2808.6	2793.2
30°	2697.8	2696.3	2691.6	2687.0	2693.2	2693.2	2693.2	2690.1	2679.4	2667.0	2656.3
32.5°	2425.6	2428.7	2434.8	2439.4	2451.7	2465.6	2477.9	2484.0	2484.0	2476.3	2471.7
35°	2101.0	2105.7	2114.9	2127.2	2142.6	2159.5	2187.1	2193.3	2197.9	2197.9	2191.8
37.5°	1764.2	1762.7	1771.9	1782.7	1791.9	1804.2	1824.2	1828.8	1836.5	1833.4	1827.2
40°	1436.5	1428.9	1425.8	1428.9	1439.6	1435.0	1439.6	1436.5	1436.5	1425.8	1425.8
42.5°	1133.5	1124.4	1118.2	1113.6	1113.6	1102.8	1095.1	1087.5	1082.8	1075.1	1073.6
45°	873.7	862.8	855.2	852.1	847.5	833.7	824.4	815.2	804.4	801.4	802.9
47.5°	678.3	667.5	664.4	656.8	649.0	641.4	635.2	624.5	622.9	616.8	622.9
50°	522.9	519.9	515.3	512.2	507.5	501.4	495.3	489.1	486.0	486.0	487.5
52.5°	406.1	407.6	403.0	398.3	395.3	395.3	387.6	386.1	386.1	379.9	386.1
55°	310.7	309.1	310.7	307.6	307.6	303.0	303.0	298.4	298.4	293.8	296.9
57.5°	227.7	230.7	227.7	229.2	232.3	227.7	226.1	221.5	224.6	221.5	223.0
60°	176.9	176.9	176.9	175.4	175.4	173.8	173.8	172.3	172.3	169.2	172.3
62.5°	130.7	132.3	132.3	132.3	133.8	132.3	130.7	132.3	130.7	130.7	132.3
65°	86.2	87.7	87.7	86.2	89.2	86.2	87.7	89.2	90.7	89.2	90.7
67.5°	58.4	58.4	60.0	61.5	60.0	61.5	63.1	61.5	63.1	66.2	63.1
70°	43.1	44.6	44.6	43.1	41.5	43.1	41.5	46.2	46.2	46.2	49.2
72.5°	27.7	27.7	26.1	26.1	26.1	26.1	26.1	30.8	27.7	26.1	29.2
75°	15.4	16.9	16.9	12.3	13.9	16.9	12.3	13.9	18.5	15.4	18.5
77.5°	9.2	9.2	9.2	9.2	9.2	9.2	12.3	10.8	10.8	10.8	12.3
80°	7.7	6.1	6.1	4.6	6.1	6.1	6.1	9.2	7.7	7.7	9.2
82.5°	3.1	3.1	1.5	0.0	3.1	3.1	3.1	3.1	3.1	3.1	6.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	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: P248968

CATALOG NUMBER: LSR8B90D010 EC8B909730 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0
2.5°	3146.9	3146.9	3145.4	3142.3	3136.1	3136.1	3134.6	3130.0	3127.0	3125.4	3125.4
5°	3131.5	3125.4	3119.2	3102.3	3102.3	3099.2	3090.1	3083.8	3080.8	3073.1	3070.0
7.5°	3117.7	3099.2	3088.5	3077.7	3063.9	3057.7	3046.9	3042.3	3031.6	3023.9	3019.3
10°	3083.8	3071.6	3057.7	3040.8	3030.0	3017.8	3005.4	2996.2	2982.4	2974.6	2968.5
12.5°	3060.8	3042.3	3030.0	3011.5	2993.1	2982.4	2965.5	2954.7	2940.8	2925.4	2916.2
15°	3039.3	3019.3	3002.4	2982.4	2962.4	2950.1	2930.1	2917.8	2897.8	2882.4	2871.6
17.5°	3007.0	2990.0	2971.6	2947.0	2928.5	2913.2	2891.6	2876.3	2857.8	2837.8	2827.0
20°	2973.1	2953.1	2934.7	2910.1	2891.6	2873.2	2851.6	2834.7	2813.1	2794.7	2782.4
22.5°	2928.5	2905.4	2890.1	2865.4	2843.9	2824.0	2804.0	2784.0	2763.9	2748.6	2734.7
25°	2863.9	2839.3	2822.4	2802.4	2782.4	2767.0	2742.4	2730.1	2710.1	2696.3	2682.4
27.5°	2771.6	2753.2	2737.8	2717.8	2700.9	2688.6	2670.1	2657.8	2640.9	2628.6	2617.8
30°	2636.3	2620.9	2607.1	2587.1	2574.8	2564.0	2547.0	2536.3	2524.0	2510.1	2507.1
32.5°	2454.8	2442.5	2428.7	2414.8	2405.6	2399.4	2385.5	2379.4	2367.1	2359.4	2351.7
35°	2181.0	2170.2	2162.6	2156.4	2153.3	2154.8	2151.8	2158.0	2161.0	2159.5	2161.0
37.5°	1822.7	1816.5	1819.6	1824.2	1839.6	1859.6	1878.0	1905.7	1924.2	1942.6	1959.5
40°	1422.7	1427.4	1439.6	1467.3	1507.3	1552.0	1593.5	1645.8	1698.1	1735.0	1768.8
42.5°	1073.6	1087.5	1118.2	1158.2	1218.2	1284.3	1348.9	1425.8	1488.9	1550.4	1593.5
45°	807.5	825.9	865.9	921.3	987.4	1064.4	1145.9	1232.0	1307.4	1370.5	1418.1
47.5°	629.1	646.0	686.0	744.5	825.9	906.0	990.5	1079.7	1158.2	1219.7	1261.2
50°	496.8	518.3	553.7	615.2	696.8	781.4	869.0	956.7	1030.5	1082.8	1119.7
52.5°	390.7	410.7	444.5	509.1	592.2	676.8	758.3	844.4	909.0	959.8	984.4
55°	303.0	321.5	356.8	410.7	489.1	572.2	653.7	727.5	787.5	824.4	847.5
57.5°	230.7	244.6	269.2	323.0	393.8	470.6	539.9	613.7	659.9	686.0	701.3
60°	175.4	186.1	212.3	253.8	318.4	384.5	443.0	498.4	535.3	556.8	572.2
62.5°	132.3	144.6	163.0	198.4	247.6	301.5	350.7	392.2	423.0	436.8	447.6
65°	90.7	100.0	113.8	141.5	183.0	221.5	259.9	290.7	310.7	326.1	332.2
67.5°	67.7	73.8	81.5	103.1	132.3	163.0	189.2	210.7	232.3	238.4	249.2
70°	50.8	55.4	63.1	78.4	95.3	116.9	138.5	150.7	166.1	176.9	180.0
72.5°	32.3	33.8	41.5	50.8	64.6	78.4	92.3	103.1	112.3	118.5	121.5
75°	18.5	27.7	27.7	36.9	46.2	52.3	61.5	69.2	73.8	78.4	78.4
77.5°	12.3	16.9	18.5	23.0	27.7	35.4	43.1	47.7	52.3	53.8	53.8
80°	10.8	12.3	12.3	16.9	20.0	26.1	30.8	32.3	35.4	36.9	40.0
82.5°	4.6	6.1	7.7	12.3	13.9	13.9	18.5	20.0	23.0	24.6	24.6
85°	1.5	3.1	3.1	4.6	7.7	9.2	10.8	12.3	13.9	13.9	15.4
87.5°	1.5	1.5	0.0	1.5	3.1	3.1	6.1	6.1	6.1	9.2	9.2
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: P248968

CATALOG NUMBER: LSR8B90D010 EC8B909730 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0
2.5°	3122.3	3123.9	3117.7	3116.2	3113.1	3114.6	3117.7
5°	3065.4	3066.9	3060.8	3054.7	3054.7	3053.1	3054.7
7.5°	3011.5	3013.1	3003.9	3000.8	2994.6	2996.2	2996.2
10°	2957.7	2957.7	2943.9	2942.4	2937.7	2936.2	2936.2
12.5°	2905.4	2900.8	2890.1	2883.9	2887.0	2877.8	2877.8
15°	2859.3	2851.6	2837.8	2833.1	2825.5	2822.4	2822.4
17.5°	2811.6	2805.5	2793.2	2784.0	2774.7	2773.2	2774.7
20°	2765.5	2759.3	2743.9	2737.8	2730.1	2730.1	2727.0
22.5°	2719.3	2713.2	2699.4	2694.7	2684.0	2684.0	2685.5
25°	2671.6	2667.0	2651.6	2648.6	2647.1	2640.9	2644.0
27.5°	2607.1	2604.0	2591.7	2587.1	2580.9	2579.4	2582.4
30°	2488.6	2484.0	2474.8	2470.2	2459.4	2460.9	2464.0
32.5°	2341.0	2334.8	2322.5	2317.9	2308.7	2305.6	2307.1
35°	2156.4	2151.8	2141.0	2141.0	2131.8	2128.7	2131.8
37.5°	1968.8	1973.3	1968.8	1973.3	1968.8	1967.2	1968.8
40°	1791.9	1808.8	1811.8	1828.8	1822.7	1831.8	1830.3
42.5°	1622.7	1650.3	1661.2	1675.0	1671.9	1678.1	1682.7
45°	1451.9	1475.0	1485.8	1495.0	1496.6	1499.7	1501.2
47.5°	1290.4	1308.9	1310.4	1321.2	1319.7	1319.7	1324.3
50°	1139.8	1152.0	1155.1	1162.8	1156.7	1153.6	1155.1
52.5°	999.8	1012.1	1009.0	1012.1	1004.4	1001.3	1002.8
55°	856.7	862.8	862.8	862.8	853.7	853.7	853.7
57.5°	710.6	712.2	709.1	710.6	709.1	699.8	698.3
60°	576.8	576.8	575.2	576.8	572.2	567.6	567.6
62.5°	450.6	453.7	459.9	453.7	450.6	453.7	449.1
65°	336.9	343.0	341.4	344.5	343.0	343.0	339.9
67.5°	253.8	255.3	256.8	258.4	258.4	258.4	258.4
70°	186.1	190.8	189.2	189.2	189.2	189.2	198.4
72.5°	124.6	130.7	129.2	132.3	132.3	135.4	132.3
75°	84.6	90.7	87.7	92.3	90.7	87.7	95.3
77.5°	56.9	60.0	61.5	63.1	61.5	60.0	61.5
80°	40.0	43.1	41.5	43.1	43.1	43.1	44.6
82.5°	24.6	29.2	27.7	29.2	27.7	29.2	29.2
85°	16.9	18.5	15.4	18.5	16.9	16.9	20.0
87.5°	10.8	9.2	9.2	10.8	9.2	10.8	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)