

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: P248959

Luminaire Tested: **LSR8B90D010 EC8B90927 8LBSW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248959  
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 EC8B90927 8LBSW0B  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5643.0 lumens  
Efficiency: N/A  
Efficacy: 65.5 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

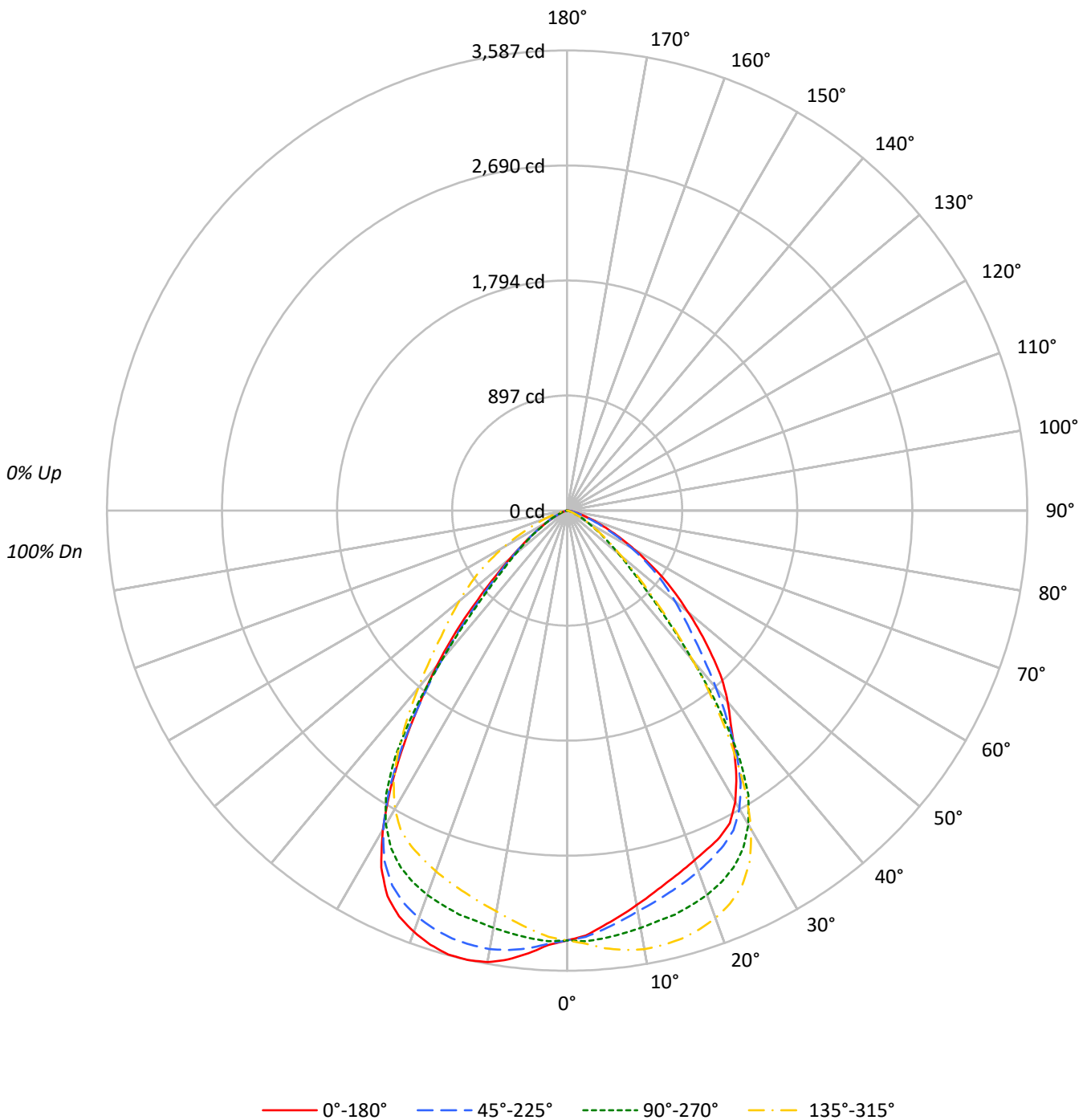
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P248959

CATALOG NUMBER: LSR8B90D010 EC8B90927 8LBSW0B

### Luminous Intensity Polar Plot





TEST NUMBER: P248959

CATALOG NUMBER: LSR8B90D010 EC8B90927 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	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°				



TEST NUMBER: P248959

CATALOG NUMBER: LSR8B90D010 EC8B90927 8LBSW0B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.9	5.7
10°-20°	923.4	16.4
20°-30°	1398.2	24.8
30°-40°	1401.3	24.8
40°-50°	880.0	15.6
50°-60°	468.9	8.3
60°-70°	192.8	3.4
70°-80°	50.9	0.9
80°-90°	8.6	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°	2640.4	46.8
0°-40°	4041.7	71.6
0°-60°	5390.6	95.5
0°-90°	5643.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5643.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3350	3350	3350	3350	3350	
5°	3249	3345	3465	3345	3249	306
15°	3002	3258	3582	3258	3002	849
25°	2812	3069	3316	3069	2812	1290
35°	2267	2331	2212	2331	2267	1420
45°	1596	854	988	854	1596	1228
55°	908	316	334	316	908	809
65°	362	96	88	96	362	375
75°	101	20	16	20	101	115
85°	21	0	2	0	21	23
90°	0	0	0	0	0	



TEST NUMBER: P248959

CATALOG NUMBER: LSR8B90D010 EC8B90927 8LBSW0B

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0
2.5°	3315.7	3312.4	3310.8	3314.1	3315.7	3322.2	3320.7	3323.9	3323.9	3325.6	3328.8
5°	3248.7	3247.0	3248.7	3248.7	3255.2	3261.7	3260.1	3265.1	3268.2	3276.5	3279.7
7.5°	3186.6	3186.6	3184.9	3191.4	3194.7	3204.5	3202.9	3211.1	3215.9	3224.1	3235.5
10°	3122.7	3122.7	3124.4	3129.2	3130.9	3145.6	3145.6	3157.1	3163.6	3171.8	3186.6
12.5°	3060.6	3060.6	3070.4	3067.1	3073.6	3085.1	3089.9	3101.4	3111.3	3127.6	3142.4
15°	3001.6	3001.6	3005.0	3013.1	3018.0	3032.8	3040.9	3054.0	3065.5	3081.8	3103.1
17.5°	2951.0	2949.3	2951.0	2960.8	2970.6	2983.6	2990.1	3006.6	3018.0	3039.3	3059.0
20°	2900.2	2903.5	2903.5	2911.7	2918.2	2934.6	2941.1	2959.2	2972.2	2991.8	3014.8
22.5°	2856.0	2854.5	2854.5	2865.9	2870.8	2885.5	2892.0	2908.4	2923.1	2939.5	2960.8
25°	2811.9	2808.6	2815.2	2816.8	2820.0	2836.5	2841.3	2852.8	2867.5	2882.2	2903.5
27.5°	2746.5	2743.2	2744.9	2751.4	2756.2	2769.3	2772.7	2784.2	2795.5	2808.6	2826.7
30°	2620.5	2617.2	2615.6	2627.1	2632.0	2641.7	2646.7	2666.4	2669.5	2684.4	2697.4
32.5°	2453.6	2452.0	2455.3	2465.1	2470.0	2483.1	2489.6	2501.1	2509.2	2517.4	2530.6
35°	2267.2	2264.0	2267.2	2277.0	2277.0	2288.5	2293.4	2298.3	2296.6	2298.3	2295.0
37.5°	2093.8	2092.2	2093.8	2098.7	2093.8	2098.7	2093.8	2084.0	2066.1	2046.4	2026.7
40°	1946.6	1948.2	1938.4	1945.0	1926.9	1923.6	1905.8	1881.1	1845.2	1806.0	1750.3
42.5°	1789.5	1784.7	1778.1	1781.3	1766.7	1755.1	1725.8	1694.7	1648.8	1583.4	1516.4
45°	1596.5	1594.9	1591.6	1590.0	1580.2	1568.7	1544.2	1508.2	1457.4	1390.4	1310.3
47.5°	1408.4	1403.4	1403.4	1405.1	1393.6	1392.1	1372.4	1341.3	1297.1	1231.8	1148.3
50°	1228.4	1226.8	1230.1	1236.6	1228.4	1225.2	1212.2	1190.8	1151.7	1096.0	1017.4
52.5°	1066.5	1064.9	1068.2	1076.3	1073.0	1076.3	1063.2	1046.9	1020.7	966.7	898.1
55°	907.9	907.9	907.9	917.7	917.7	917.7	911.1	901.4	876.8	837.6	773.8
57.5°	742.6	744.3	754.1	755.7	754.1	757.4	755.7	745.9	729.6	701.8	652.7
60°	603.6	603.6	608.5	613.5	611.8	613.5	613.5	608.5	592.2	569.2	530.0
62.5°	477.7	482.5	479.2	482.5	489.0	482.5	479.2	476.0	464.6	449.9	417.2
65°	361.5	364.8	364.8	366.4	363.2	364.8	358.3	353.4	346.8	330.4	309.2
67.5°	274.8	274.8	274.8	274.8	273.2	271.6	269.9	265.0	253.6	247.0	224.1
70°	211.0	201.2	201.2	201.2	201.2	202.8	198.0	191.5	188.1	176.6	160.3
72.5°	140.6	144.0	140.6	140.6	137.5	139.0	132.5	129.2	126.0	119.5	109.6
75°	101.4	93.3	96.5	98.2	93.3	96.5	90.0	83.5	83.5	78.5	73.6
77.5°	65.5	63.8	65.5	67.0	65.5	63.8	60.5	57.3	57.3	55.6	50.7
80°	47.5	45.8	45.8	45.8	44.2	45.8	42.5	42.5	39.3	37.7	34.3
82.5°	31.2	31.2	29.5	31.2	29.5	31.2	26.2	26.2	26.2	24.5	21.3
85°	21.3	18.0	18.0	19.7	16.3	19.7	18.0	16.3	14.7	14.7	13.0
87.5°	9.8	11.5	9.8	11.5	9.8	9.8	11.5	9.8	9.8	6.5	6.5
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: P248959

CATALOG NUMBER: LSR8B90D010 EC8B90927 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0
2.5°	3333.7	3335.3	3335.3	3341.9	3345.2	3346.8	3346.8	3359.9	3355.0	3358.2	3361.5
5°	3286.4	3296.0	3299.4	3299.4	3317.4	3323.9	3330.4	3345.2	3346.8	3356.6	3368.0
7.5°	3240.5	3251.9	3258.5	3273.2	3284.7	3296.0	3315.7	3325.6	3335.3	3348.4	3363.2
10°	3196.2	3209.4	3222.5	3233.9	3251.9	3266.7	3279.7	3302.6	3314.1	3332.1	3351.7
12.5°	3153.8	3171.8	3183.2	3202.9	3222.5	3235.5	3255.2	3276.5	3294.4	3312.4	3335.3
15°	3116.1	3137.4	3150.5	3171.8	3193.1	3211.1	3232.4	3258.5	3271.6	3292.9	3314.1
17.5°	3075.2	3098.1	3114.6	3134.1	3160.4	3179.9	3197.9	3224.1	3240.5	3263.4	3287.9
20°	3032.8	3055.6	3075.2	3094.9	3121.1	3140.7	3161.9	3188.1	3206.1	3229.0	3248.7
22.5°	2982.0	3003.3	3024.6	3047.4	3073.6	3089.9	3114.6	3137.4	3157.1	3178.4	3197.9
25°	2916.6	2942.8	2959.2	2980.4	3001.6	3019.6	3045.8	3068.7	3085.1	3104.8	3122.7
27.5°	2839.7	2859.4	2872.5	2890.5	2911.7	2928.0	2947.6	2970.6	2987.0	3005.0	3018.0
30°	2708.8	2726.9	2738.4	2751.4	2772.7	2787.4	2803.7	2825.0	2836.5	2849.5	2861.0
32.5°	2537.1	2551.8	2558.4	2568.2	2582.9	2597.6	2610.7	2628.7	2633.6	2641.7	2641.7
35°	2288.5	2291.7	2290.0	2293.4	2300.0	2308.0	2319.5	2331.0	2337.5	2337.5	2332.7
37.5°	1997.3	1977.6	1956.4	1940.1	1935.1	1931.8	1938.4	1943.3	1949.8	1953.1	1945.0
40°	1694.7	1650.5	1603.0	1560.5	1531.1	1518.1	1513.1	1516.4	1516.4	1527.8	1527.8
42.5°	1434.6	1365.9	1295.6	1231.8	1189.2	1156.5	1141.8	1141.8	1143.4	1151.7	1156.5
45°	1218.7	1132.0	1050.2	979.9	920.9	878.4	858.8	853.9	852.3	855.4	866.9
47.5°	1053.4	963.4	878.4	791.8	729.6	687.0	669.0	662.5	655.9	662.5	664.1
50°	924.2	831.0	741.0	654.3	588.8	551.2	528.3	518.5	516.9	516.9	520.2
52.5°	806.4	719.8	629.8	541.5	472.7	436.7	415.5	410.6	404.1	410.6	410.6
55°	695.1	608.5	520.2	436.7	379.5	341.9	322.2	315.7	312.4	317.4	317.4
57.5°	574.2	500.5	418.8	343.5	286.3	260.1	245.4	237.2	235.6	238.8	235.6
60°	471.2	408.9	338.6	269.9	225.8	198.0	186.5	183.2	179.9	183.2	183.2
62.5°	372.9	320.6	263.4	211.0	173.4	153.8	140.6	140.6	139.0	139.0	140.6
65°	276.4	235.6	194.6	150.5	121.0	106.3	96.5	96.5	94.8	96.5	94.8
67.5°	201.2	173.4	140.6	109.6	86.7	78.5	72.0	67.0	70.3	67.0	65.5
70°	147.3	124.3	101.4	83.5	67.0	59.0	54.0	52.3	49.1	49.1	49.1
72.5°	98.2	83.5	68.6	54.0	44.2	36.0	34.3	31.2	27.8	29.5	32.7
75°	65.5	55.6	49.1	39.3	29.5	29.5	19.7	19.7	16.3	19.7	14.7
77.5°	45.8	37.7	29.5	24.5	19.7	18.0	13.0	13.0	11.5	11.5	11.5
80°	32.7	27.8	21.3	18.0	13.0	13.0	11.5	9.8	8.1	8.1	9.8
82.5°	19.7	14.7	14.7	13.0	8.1	6.5	5.0	6.5	3.3	3.3	3.3
85°	11.5	9.8	8.1	5.0	3.3	3.3	1.6	0.0	1.6	1.6	0.0
87.5°	6.5	3.3	3.3	1.6	0.0	1.6	1.6	0.0	0.0	0.0	3.3
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: P248959

CATALOG NUMBER: LSR8B90D010 EC8B90927 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0
2.5°	3369.7	3368.0	3371.4	3371.4	3381.2	3379.5	3384.4	3384.4	3381.2	3382.8	3389.3
5°	3381.2	3386.1	3395.8	3404.0	3418.8	3425.4	3433.5	3441.7	3443.3	3448.2	3453.2
7.5°	3381.2	3397.5	3409.0	3423.7	3443.3	3454.8	3472.8	3487.5	3494.0	3502.1	3512.0
10°	3374.6	3391.0	3412.2	3428.6	3453.2	3471.1	3489.1	3512.0	3521.8	3534.9	3548.0
12.5°	3361.5	3379.5	3402.3	3423.7	3451.5	3467.8	3490.8	3512.0	3526.8	3544.8	3559.5
15°	3341.9	3363.2	3384.4	3405.7	3435.1	3454.8	3476.0	3500.6	3515.3	3534.9	3548.0
17.5°	3310.8	3333.7	3353.4	3373.0	3400.8	3423.7	3443.3	3466.2	3481.0	3497.3	3515.3
20°	3273.2	3294.4	3315.7	3332.1	3359.9	3379.5	3400.8	3422.0	3433.5	3436.8	3464.6
22.5°	3225.8	3240.5	3256.8	3283.0	3299.4	3317.4	3337.0	3356.6	3368.0	3386.1	3395.8
25°	3147.2	3161.9	3179.9	3191.4	3211.1	3225.8	3245.4	3266.7	3273.2	3286.4	3296.0
27.5°	3037.6	3045.8	3054.0	3063.8	3075.2	3083.4	3094.9	3104.8	3111.3	3117.8	3124.4
30°	2864.2	2864.2	2864.2	2857.7	2862.6	2867.5	2869.1	2867.5	2867.5	2865.9	2865.9
32.5°	2635.2	2622.2	2607.4	2594.4	2589.4	2582.9	2579.6	2574.7	2566.6	2561.6	2563.2
35°	2326.0	2296.6	2278.7	2262.3	2249.2	2239.4	2234.5	2229.5	2228.0	2221.4	2214.8
37.5°	1940.1	1918.8	1905.8	1895.8	1884.5	1874.6	1876.2	1877.8	1882.8	1879.5	1881.1
40°	1531.1	1526.2	1531.1	1519.6	1516.4	1519.6	1527.8	1539.3	1545.9	1552.4	1563.8
42.5°	1164.7	1172.8	1184.3	1184.3	1189.2	1195.8	1205.6	1223.6	1233.3	1244.8	1258.0
45°	876.8	886.6	901.4	906.2	909.4	917.7	929.1	943.9	950.4	960.2	971.7
47.5°	675.6	682.1	690.3	698.5	706.6	709.9	721.4	721.4	729.6	736.1	739.4
50°	526.7	533.2	539.8	544.7	548.0	552.9	556.2	561.0	562.7	566.0	567.6
52.5°	412.2	420.4	420.4	423.7	428.5	433.5	431.9	433.5	435.0	435.0	440.0
55°	322.2	322.2	327.2	327.2	330.4	328.7	330.4	330.4	330.4	330.4	332.1
57.5°	240.4	242.1	247.0	243.8	242.1	245.4	242.1	245.4	243.8	247.0	242.1
60°	184.8	184.8	186.5	186.5	188.1	188.1	188.1	186.5	186.5	184.8	184.8
62.5°	139.0	140.6	142.3	140.6	140.6	140.6	139.0	139.0	137.5	135.8	135.8
65°	93.3	91.7	94.8	91.7	93.3	93.3	91.7	93.3	88.3	90.0	88.3
67.5°	67.0	65.5	63.8	65.5	63.8	62.1	62.1	63.8	65.5	60.5	60.5
70°	44.2	45.8	44.2	45.8	47.5	47.5	45.8	44.2	45.8	42.5	44.2
72.5°	27.8	27.8	27.8	27.8	27.8	29.5	29.5	29.5	26.2	26.2	24.5
75°	13.0	18.0	14.7	13.0	18.0	18.0	16.3	16.3	14.7	14.7	14.7
77.5°	13.0	9.8	9.8	9.8	9.8	9.8	9.8	9.8	8.1	9.8	8.1
80°	6.5	6.5	6.5	5.0	6.5	6.5	8.1	6.5	6.5	5.0	8.1
82.5°	3.3	3.3	3.3	0.0	1.6	3.3	3.3	1.6	3.3	3.3	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: P248959

CATALOG NUMBER: LSR8B90D010 EC8B90927 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0
2.5°	3387.7	3386.1	3387.7	3389.3	3387.7	3386.1	3387.7	3389.3	3382.8	3381.2	3384.4
5°	3459.7	3459.7	3462.9	3464.6	3462.9	3459.7	3459.7	3453.2	3448.2	3443.3	3441.7
7.5°	3521.8	3525.1	3528.3	3530.0	3528.3	3525.1	3521.8	3512.0	3502.1	3494.0	3487.5
10°	3559.5	3564.3	3570.9	3574.1	3570.9	3564.3	3559.5	3548.0	3534.9	3521.8	3512.0
12.5°	3575.8	3580.8	3588.9	3587.3	3588.9	3580.8	3575.8	3559.5	3544.8	3526.8	3512.0
15°	3564.3	3570.9	3579.1	3582.3	3579.1	3570.9	3564.3	3548.0	3534.9	3515.3	3500.6
17.5°	3528.3	3538.2	3543.1	3548.0	3543.1	3538.2	3528.3	3515.3	3497.3	3481.0	3466.2
20°	3479.3	3485.9	3492.4	3494.0	3492.4	3485.9	3479.3	3464.6	3436.8	3433.5	3422.0
22.5°	3409.0	3413.9	3428.6	3423.7	3428.6	3413.9	3409.0	3395.8	3386.1	3368.0	3356.6
25°	3307.5	3312.4	3314.1	3315.7	3314.1	3312.4	3307.5	3296.0	3286.4	3273.2	3266.7
27.5°	3132.6	3132.6	3135.7	3137.4	3135.7	3132.6	3132.6	3124.4	3117.8	3111.3	3104.8
30°	2867.5	2867.5	2867.5	2875.7	2867.5	2867.5	2867.5	2865.9	2865.9	2867.5	2867.5
32.5°	2561.6	2558.4	2555.1	2558.4	2555.1	2558.4	2561.6	2563.2	2561.6	2566.6	2574.7
35°	2214.8	2213.2	2218.2	2211.6	2218.2	2213.2	2214.8	2214.8	2221.4	2228.0	2229.5
37.5°	1882.8	1879.5	1886.1	1879.5	1886.1	1879.5	1882.8	1881.1	1879.5	1882.8	1877.8
40°	1567.1	1570.4	1570.4	1583.4	1570.4	1570.4	1567.1	1563.8	1552.4	1545.9	1539.3
42.5°	1264.5	1274.3	1271.0	1280.8	1271.0	1274.3	1264.5	1258.0	1244.8	1233.3	1223.6
45°	978.2	984.7	984.7	988.0	984.7	984.7	978.2	971.7	960.2	950.4	943.9
47.5°	750.8	750.8	750.8	752.5	750.8	750.8	750.8	739.4	736.1	729.6	721.4
50°	570.9	572.5	574.2	575.8	574.2	572.5	570.9	567.6	566.0	562.7	561.0
52.5°	438.4	440.0	436.7	440.0	436.7	440.0	438.4	440.0	435.0	435.0	433.5
55°	332.1	330.4	332.1	333.7	332.1	330.4	332.1	332.1	330.4	330.4	330.4
57.5°	243.8	240.4	240.4	240.4	240.4	240.4	243.8	242.1	247.0	243.8	245.4
60°	181.6	183.2	183.2	184.8	183.2	183.2	181.6	184.8	184.8	186.5	186.5
62.5°	134.1	139.0	135.8	139.0	135.8	139.0	134.1	135.8	135.8	137.5	139.0
65°	86.7	86.7	86.7	88.3	86.7	86.7	86.7	88.3	90.0	88.3	93.3
67.5°	59.0	60.5	63.8	62.1	63.8	60.5	59.0	60.5	60.5	65.5	63.8
70°	47.5	42.5	42.5	47.5	42.5	42.5	47.5	44.2	42.5	45.8	44.2
72.5°	27.8	24.5	27.8	27.8	27.8	24.5	27.8	24.5	26.2	26.2	29.5
75°	14.7	13.0	11.5	16.3	11.5	13.0	14.7	14.7	14.7	14.7	16.3
77.5°	9.8	8.1	11.5	11.5	11.5	8.1	9.8	8.1	9.8	8.1	9.8
80°	5.0	6.5	5.0	8.1	5.0	6.5	5.0	8.1	5.0	6.5	6.5
82.5°	1.6	3.3	3.3	3.3	3.3	3.3	1.6	1.6	3.3	3.3	1.6
85°	0.0	3.3	1.6	1.6	1.6	3.3	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: P248959

CATALOG NUMBER: LSR8B90D010 EC8B90927 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0
2.5°	3384.4	3379.5	3381.2	3371.4	3371.4	3368.0	3369.7	3361.5	3358.2	3355.0	3359.9
5°	3433.5	3425.4	3418.8	3404.0	3395.8	3386.1	3381.2	3368.0	3356.6	3346.8	3345.2
7.5°	3472.8	3454.8	3443.3	3423.7	3409.0	3397.5	3381.2	3363.2	3348.4	3335.3	3325.6
10°	3489.1	3471.1	3453.2	3428.6	3412.2	3391.0	3374.6	3351.7	3332.1	3314.1	3302.6
12.5°	3490.8	3467.8	3451.5	3423.7	3402.3	3379.5	3361.5	3335.3	3312.4	3294.4	3276.5
15°	3476.0	3454.8	3435.1	3405.7	3384.4	3363.2	3341.9	3314.1	3292.9	3271.6	3258.5
17.5°	3443.3	3423.7	3400.8	3373.0	3353.4	3333.7	3310.8	3287.9	3263.4	3240.5	3224.1
20°	3400.8	3379.5	3359.9	3332.1	3315.7	3294.4	3273.2	3248.7	3229.0	3206.1	3188.1
22.5°	3337.0	3317.4	3299.4	3283.0	3256.8	3240.5	3225.8	3197.9	3178.4	3157.1	3137.4
25°	3245.4	3225.8	3211.1	3191.4	3179.9	3161.9	3147.2	3122.7	3104.8	3085.1	3068.7
27.5°	3094.9	3083.4	3075.2	3063.8	3054.0	3045.8	3037.6	3018.0	3005.0	2987.0	2970.6
30°	2869.1	2867.5	2862.6	2857.7	2864.2	2864.2	2864.2	2861.0	2849.5	2836.5	2825.0
32.5°	2579.6	2582.9	2589.4	2594.4	2607.4	2622.2	2635.2	2641.7	2641.7	2633.6	2628.7
35°	2234.5	2239.4	2249.2	2262.3	2278.7	2296.6	2326.0	2332.7	2337.5	2337.5	2331.0
37.5°	1876.2	1874.6	1884.5	1895.8	1905.8	1918.8	1940.1	1945.0	1953.1	1949.8	1943.3
40°	1527.8	1519.6	1516.4	1519.6	1531.1	1526.2	1531.1	1527.8	1527.8	1516.4	1516.4
42.5°	1205.6	1195.8	1189.2	1184.3	1184.3	1172.8	1164.7	1156.5	1151.7	1143.4	1141.8
45°	929.1	917.7	909.4	906.2	901.4	886.6	876.8	866.9	855.4	852.3	853.9
47.5°	721.4	709.9	706.6	698.5	690.3	682.1	675.6	664.1	662.5	655.9	662.5
50°	556.2	552.9	548.0	544.7	539.8	533.2	526.7	520.2	516.9	516.9	518.5
52.5°	431.9	433.5	428.5	423.7	420.4	420.4	412.2	410.6	410.6	404.1	410.6
55°	330.4	328.7	330.4	327.2	327.2	322.2	322.2	317.4	317.4	312.4	315.7
57.5°	242.1	245.4	242.1	243.8	247.0	242.1	240.4	235.6	238.8	235.6	237.2
60°	188.1	188.1	188.1	186.5	186.5	184.8	184.8	183.2	183.2	179.9	183.2
62.5°	139.0	140.6	140.6	140.6	142.3	140.6	139.0	140.6	139.0	139.0	140.6
65°	91.7	93.3	93.3	91.7	94.8	91.7	93.3	94.8	96.5	94.8	96.5
67.5°	62.1	62.1	63.8	65.5	63.8	65.5	67.0	65.5	67.0	70.3	67.0
70°	45.8	47.5	47.5	45.8	44.2	45.8	44.2	49.1	49.1	49.1	52.3
72.5°	29.5	29.5	27.8	27.8	27.8	27.8	27.8	32.7	29.5	27.8	31.2
75°	16.3	18.0	18.0	13.0	14.7	18.0	13.0	14.7	19.7	16.3	19.7
77.5°	9.8	9.8	9.8	9.8	9.8	9.8	13.0	11.5	11.5	11.5	13.0
80°	8.1	6.5	6.5	5.0	6.5	6.5	6.5	9.8	8.1	8.1	9.8
82.5°	3.3	3.3	1.6	0.0	3.3	3.3	3.3	3.3	3.3	3.3	6.5
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	3.3	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: P248959

CATALOG NUMBER: LSR8B90D010 EC8B90927 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0
2.5°	3346.8	3346.8	3345.2	3341.9	3335.3	3335.3	3333.7	3328.8	3325.6	3323.9	3323.9
5°	3330.4	3323.9	3317.4	3299.4	3299.4	3296.0	3286.4	3279.7	3276.5	3268.2	3265.1
7.5°	3315.7	3296.0	3284.7	3273.2	3258.5	3251.9	3240.5	3235.5	3224.1	3215.9	3211.1
10°	3279.7	3266.7	3251.9	3233.9	3222.5	3209.4	3196.2	3186.6	3171.8	3163.6	3157.1
12.5°	3255.2	3235.5	3222.5	3202.9	3183.2	3171.8	3153.8	3142.4	3127.6	3111.3	3101.4
15°	3232.4	3211.1	3193.1	3171.8	3150.5	3137.4	3116.1	3103.1	3081.8	3065.5	3054.0
17.5°	3197.9	3179.9	3160.4	3134.1	3114.6	3098.1	3075.2	3059.0	3039.3	3018.0	3006.6
20°	3161.9	3140.7	3121.1	3094.9	3075.2	3055.6	3032.8	3014.8	2991.8	2972.2	2959.2
22.5°	3114.6	3089.9	3073.6	3047.4	3024.6	3003.3	2982.0	2960.8	2939.5	2923.1	2908.4
25°	3045.8	3019.6	3001.6	2980.4	2959.2	2942.8	2916.6	2903.5	2882.2	2867.5	2852.8
27.5°	2947.6	2928.0	2911.7	2890.5	2872.5	2859.4	2839.7	2826.7	2808.6	2795.5	2784.2
30°	2803.7	2787.4	2772.7	2751.4	2738.4	2726.9	2708.8	2697.4	2684.4	2669.5	2666.4
32.5°	2610.7	2597.6	2582.9	2568.2	2558.4	2551.8	2537.1	2530.6	2517.4	2509.2	2501.1
35°	2319.5	2308.0	2300.0	2293.4	2290.0	2291.7	2288.5	2295.0	2298.3	2296.6	2298.3
37.5°	1938.4	1931.8	1935.1	1940.1	1956.4	1977.6	1997.3	2026.7	2046.4	2066.1	2084.0
40°	1513.1	1518.1	1531.1	1560.5	1603.0	1650.5	1694.7	1750.3	1806.0	1845.2	1881.1
42.5°	1141.8	1156.5	1189.2	1231.8	1295.6	1365.9	1434.6	1516.4	1583.4	1648.8	1694.7
45°	858.8	878.4	920.9	979.9	1050.2	1132.0	1218.7	1310.3	1390.4	1457.4	1508.2
47.5°	669.0	687.0	729.6	791.8	878.4	963.4	1053.4	1148.3	1231.8	1297.1	1341.3
50°	528.3	551.2	588.8	654.3	741.0	831.0	924.2	1017.4	1096.0	1151.7	1190.8
52.5°	415.5	436.7	472.7	541.5	629.8	719.8	806.4	898.1	966.7	1020.7	1046.9
55°	322.2	341.9	379.5	436.7	520.2	608.5	695.1	773.8	837.6	876.8	901.4
57.5°	245.4	260.1	286.3	343.5	418.8	500.5	574.2	652.7	701.8	729.6	745.9
60°	186.5	198.0	225.8	269.9	338.6	408.9	471.2	530.0	569.2	592.2	608.5
62.5°	140.6	153.8	173.4	211.0	263.4	320.6	372.9	417.2	449.9	464.6	476.0
65°	96.5	106.3	121.0	150.5	194.6	235.6	276.4	309.2	330.4	346.8	353.4
67.5°	72.0	78.5	86.7	109.6	140.6	173.4	201.2	224.1	247.0	253.6	265.0
70°	54.0	59.0	67.0	83.5	101.4	124.3	147.3	160.3	176.6	188.1	191.5
72.5°	34.3	36.0	44.2	54.0	68.6	83.5	98.2	109.6	119.5	126.0	129.2
75°	19.7	29.5	29.5	39.3	49.1	55.6	65.5	73.6	78.5	83.5	83.5
77.5°	13.0	18.0	19.7	24.5	29.5	37.7	45.8	50.7	55.6	57.3	57.3
80°	11.5	13.0	13.0	18.0	21.3	27.8	32.7	34.3	37.7	39.3	42.5
82.5°	5.0	6.5	8.1	13.0	14.7	14.7	19.7	21.3	24.5	26.2	26.2
85°	1.6	3.3	3.3	5.0	8.1	9.8	11.5	13.0	14.7	14.7	16.3
87.5°	1.6	1.6	0.0	1.6	3.3	3.3	6.5	6.5	6.5	9.8	9.8
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: P248959

CATALOG NUMBER: LSR8B90D010 EC8B90927 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0
2.5°	3320.7	3322.2	3315.7	3314.1	3310.8	3312.4	3315.7
5°	3260.1	3261.7	3255.2	3248.7	3248.7	3247.0	3248.7
7.5°	3202.9	3204.5	3194.7	3191.4	3184.9	3186.6	3186.6
10°	3145.6	3145.6	3130.9	3129.2	3124.4	3122.7	3122.7
12.5°	3089.9	3085.1	3073.6	3067.1	3070.4	3060.6	3060.6
15°	3040.9	3032.8	3018.0	3013.1	3005.0	3001.6	3001.6
17.5°	2990.1	2983.6	2970.6	2960.8	2951.0	2949.3	2951.0
20°	2941.1	2934.6	2918.2	2911.7	2903.5	2903.5	2900.2
22.5°	2892.0	2885.5	2870.8	2865.9	2854.5	2854.5	2856.0
25°	2841.3	2836.5	2820.0	2816.8	2815.2	2808.6	2811.9
27.5°	2772.7	2769.3	2756.2	2751.4	2744.9	2743.2	2746.5
30°	2646.7	2641.7	2632.0	2627.1	2615.6	2617.2	2620.5
32.5°	2489.6	2483.1	2470.0	2465.1	2455.3	2452.0	2453.6
35°	2293.4	2288.5	2277.0	2277.0	2267.2	2264.0	2267.2
37.5°	2093.8	2098.7	2093.8	2098.7	2093.8	2092.2	2093.8
40°	1905.8	1923.6	1926.9	1945.0	1938.4	1948.2	1946.6
42.5°	1725.8	1755.1	1766.7	1781.3	1778.1	1784.7	1789.5
45°	1544.2	1568.7	1580.2	1590.0	1591.6	1594.9	1596.5
47.5°	1372.4	1392.1	1393.6	1405.1	1403.4	1403.4	1408.4
50°	1212.2	1225.2	1228.4	1236.6	1230.1	1226.8	1228.4
52.5°	1063.2	1076.3	1073.0	1076.3	1068.2	1064.9	1066.5
55°	911.1	917.7	917.7	917.7	907.9	907.9	907.9
57.5°	755.7	757.4	754.1	755.7	754.1	744.3	742.6
60°	613.5	613.5	611.8	613.5	608.5	603.6	603.6
62.5°	479.2	482.5	489.0	482.5	479.2	482.5	477.7
65°	358.3	364.8	363.2	366.4	364.8	364.8	361.5
67.5°	269.9	271.6	273.2	274.8	274.8	274.8	274.8
70°	198.0	202.8	201.2	201.2	201.2	201.2	211.0
72.5°	132.5	139.0	137.5	140.6	140.6	144.0	140.6
75°	90.0	96.5	93.3	98.2	96.5	93.3	101.4
77.5°	60.5	63.8	65.5	67.0	65.5	63.8	65.5
80°	42.5	45.8	44.2	45.8	45.8	45.8	47.5
82.5°	26.2	31.2	29.5	31.2	29.5	31.2	31.2
85°	18.0	19.7	16.3	19.7	18.0	18.0	21.3
87.5°	11.5	9.8	9.8	11.5	9.8	11.5	9.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)