

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: P248967

Luminaire Tested: **LSR8B80D010 EC8B80930 8LBSW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248967  
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: LSR8B80D010 EC8B80930 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: 5281.0 lumens  
Efficiency: N/A  
Efficacy: 71.0 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

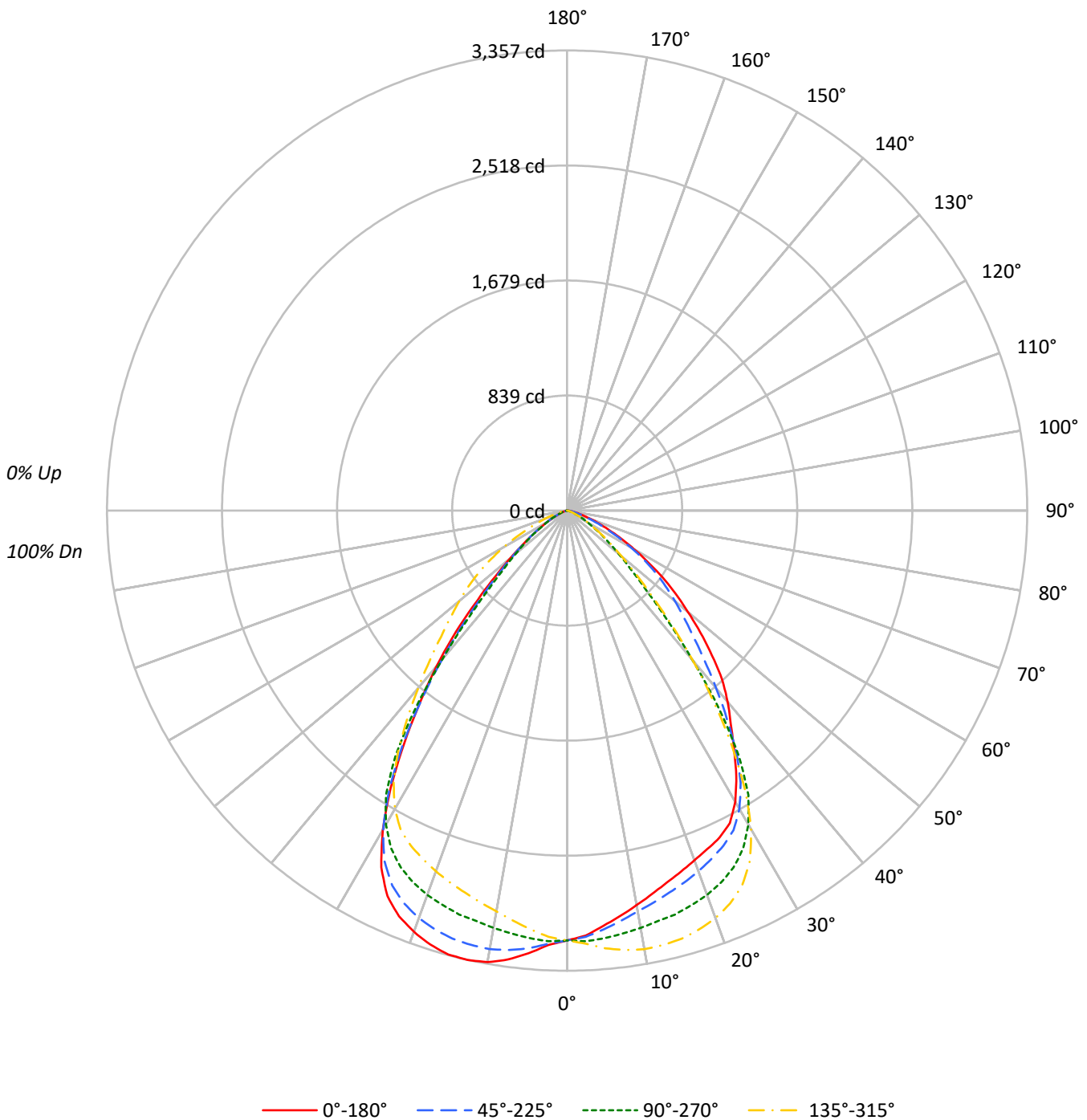
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	298.4	5.7
10°-20°	864.1	16.4
20°-30°	1308.5	24.8
30°-40°	1311.4	24.8
40°-50°	823.5	15.6
50°-60°	438.8	8.3
60°-70°	180.5	3.4
70°-80°	47.7	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°	2471.0	46.8
0°-40°	3782.5	71.6
0°-60°	5044.8	95.5
0°-90°	5281.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5281.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3135	3135	3135	3135	3135	
5°	3040	3131	3242	3131	3040	287
15°	2809	3050	3353	3050	2809	795
25°	2632	2872	3103	2872	2632	1207
35°	2122	2182	2070	2182	2122	1329
45°	1494	799	925	799	1494	1149
55°	850	296	312	296	850	757
65°	338	90	83	90	338	351
75°	95	18	15	18	95	107
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°	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2
2.5°	3103.0	3100.0	3098.4	3101.6	3103.0	3109.2	3107.6	3110.7	3110.7	3112.2	3115.3
5°	3040.3	3038.7	3040.3	3040.3	3046.4	3052.5	3051.0	3055.6	3058.6	3066.3	3069.3
7.5°	2982.1	2982.1	2980.5	2986.7	2989.7	2998.9	2997.3	3005.1	3009.7	3017.3	3028.0
10°	2922.4	2922.4	2923.9	2928.5	2930.1	2943.9	2943.9	2954.5	2960.7	2968.3	2982.1
12.5°	2864.3	2864.3	2873.5	2870.3	2876.5	2887.1	2891.7	2902.5	2911.7	2927.0	2940.8
15°	2809.1	2809.1	2812.1	2819.8	2824.4	2838.3	2845.9	2858.1	2868.9	2884.1	2904.1
17.5°	2761.7	2760.1	2761.7	2770.9	2780.1	2792.3	2798.4	2813.7	2824.4	2844.3	2862.7
20°	2714.2	2717.3	2717.3	2724.9	2731.0	2746.3	2752.5	2769.3	2781.5	2799.9	2821.3
22.5°	2672.9	2671.3	2671.3	2682.1	2686.7	2700.4	2706.5	2721.8	2735.6	2750.9	2770.9
25°	2631.5	2628.4	2634.6	2636.1	2639.2	2654.4	2659.1	2669.8	2683.6	2697.4	2717.3
27.5°	2570.3	2567.3	2568.8	2574.9	2579.5	2591.8	2594.8	2605.5	2616.2	2628.4	2645.3
30°	2452.4	2449.4	2447.8	2458.6	2463.2	2472.3	2476.8	2495.3	2498.4	2512.2	2524.4
32.5°	2296.3	2294.7	2297.8	2307.0	2311.6	2323.8	2330.0	2340.6	2348.3	2356.0	2368.2
35°	2121.8	2118.7	2121.8	2131.0	2131.0	2141.7	2146.3	2150.9	2149.3	2150.9	2147.8
37.5°	1959.5	1957.9	1959.5	1964.1	1959.5	1964.1	1959.5	1950.3	1933.5	1915.1	1896.7
40°	1821.7	1823.2	1814.1	1820.2	1803.4	1800.3	1783.5	1760.4	1726.8	1690.1	1638.0
42.5°	1674.8	1670.2	1664.0	1667.0	1653.4	1642.6	1615.0	1586.0	1543.1	1481.8	1419.1
45°	1494.1	1492.6	1489.5	1488.0	1478.8	1468.1	1445.1	1411.5	1364.0	1301.3	1226.1
47.5°	1318.1	1313.5	1313.5	1314.9	1304.3	1302.7	1284.3	1255.3	1213.9	1152.7	1074.7
50°	1149.6	1148.1	1151.3	1157.3	1149.6	1146.6	1134.3	1114.5	1077.7	1025.7	952.2
52.5°	998.1	996.6	999.7	1007.3	1004.2	1007.3	995.1	979.8	955.2	904.8	840.4
55°	849.6	849.6	849.6	858.8	858.8	858.8	852.6	843.6	820.6	783.8	724.2
57.5°	695.0	696.5	705.7	707.2	705.7	708.8	707.2	698.0	682.8	656.8	610.8
60°	564.9	564.9	569.5	574.1	572.5	574.1	574.1	569.5	554.2	532.8	496.0
62.5°	447.1	451.7	448.5	451.7	457.7	451.7	448.5	445.5	434.7	420.9	390.3
65°	338.3	341.3	341.3	342.9	339.8	341.3	335.3	330.7	324.5	309.3	289.3
67.5°	257.2	257.2	257.2	257.2	255.6	254.1	252.6	248.0	237.3	231.2	209.7
70°	197.5	188.3	188.3	188.3	188.3	189.9	185.3	179.1	176.0	165.3	150.0
72.5°	131.6	134.7	131.6	131.6	128.6	130.1	124.0	121.0	117.9	111.8	102.6
75°	94.9	87.3	90.2	91.9	87.3	90.2	84.2	78.0	78.0	73.4	68.8
77.5°	61.2	59.7	61.2	62.8	61.2	59.7	56.6	53.6	53.6	52.0	47.4
80°	44.4	42.8	42.8	42.8	41.4	42.8	39.8	39.8	36.8	35.2	32.2
82.5°	29.1	29.1	27.6	29.1	27.6	29.1	24.5	24.5	24.5	23.0	20.0
85°	20.0	16.8	16.8	18.4	15.4	18.4	16.8	15.4	13.8	13.8	12.2
87.5°	9.2	10.8	9.2	10.8	9.2	9.2	10.8	9.2	9.2	6.2	6.2
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°	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2
2.5°	3119.9	3121.4	3121.4	3127.6	3130.6	3132.1	3132.1	3144.4	3139.8	3142.8	3145.9
5°	3075.5	3084.7	3087.7	3087.7	3104.6	3110.7	3116.8	3130.6	3132.1	3141.3	3152.0
7.5°	3032.6	3043.3	3049.5	3063.2	3073.9	3084.7	3103.0	3112.2	3121.4	3133.6	3147.4
10°	2991.3	3003.5	3015.8	3026.5	3043.3	3057.1	3069.3	3090.7	3101.6	3118.4	3136.7
12.5°	2951.5	2968.3	2979.1	2997.3	3015.8	3028.0	3046.4	3066.3	3083.1	3100.0	3121.4
15°	2916.3	2936.2	2948.5	2968.3	2988.2	3005.1	3025.0	3049.5	3061.7	3081.6	3101.6
17.5°	2877.9	2899.5	2914.7	2933.1	2957.6	2975.9	2992.8	3017.3	3032.6	3054.1	3077.0
20°	2838.3	2859.7	2877.9	2896.3	2920.9	2939.3	2959.1	2983.7	3000.5	3021.9	3040.3
22.5°	2790.7	2810.7	2830.5	2851.9	2876.5	2891.7	2914.7	2936.2	2954.5	2974.5	2992.8
25°	2729.5	2754.1	2769.3	2789.2	2809.1	2825.9	2850.5	2871.9	2887.1	2905.5	2922.4
27.5°	2657.6	2675.9	2688.2	2705.0	2724.9	2740.2	2758.6	2780.1	2795.3	2812.1	2824.4
30°	2535.0	2552.0	2562.6	2574.9	2594.8	2608.6	2623.9	2643.8	2654.4	2666.7	2677.5
32.5°	2374.3	2388.1	2394.2	2403.4	2417.2	2431.0	2443.2	2460.0	2464.6	2472.3	2472.3
35°	2141.7	2144.7	2143.2	2146.3	2152.4	2160.1	2170.7	2181.5	2187.5	2187.5	2183.0
37.5°	1869.2	1850.8	1830.9	1815.6	1811.0	1807.9	1814.1	1818.6	1824.8	1827.8	1820.2
40°	1586.0	1544.6	1500.2	1460.4	1432.9	1420.6	1416.0	1419.1	1419.1	1429.8	1429.8
42.5°	1342.6	1278.3	1212.5	1152.7	1112.9	1082.3	1068.5	1068.5	1070.1	1077.7	1082.3
45°	1140.5	1059.3	982.8	917.0	861.8	822.0	803.8	799.2	797.6	800.6	811.4
47.5°	985.9	901.7	822.0	741.0	682.8	643.0	626.2	619.9	613.9	619.9	621.6
50°	865.0	777.6	693.5	612.3	551.1	515.9	494.5	485.3	483.7	483.7	486.9
52.5°	754.7	673.6	589.4	506.7	442.3	408.7	388.9	384.3	378.1	384.3	384.3
55°	650.6	569.5	486.9	408.7	355.1	319.9	301.5	295.5	292.4	297.0	297.0
57.5°	537.4	468.5	391.9	321.5	267.9	243.4	229.6	222.0	220.4	223.5	220.4
60°	440.9	382.7	316.9	252.6	211.3	185.3	174.5	171.4	168.4	171.4	171.4
62.5°	349.0	300.1	246.4	197.5	162.2	143.9	131.6	131.6	130.1	130.1	131.6
65°	258.7	220.4	182.2	140.8	113.3	99.5	90.2	90.2	88.8	90.2	88.8
67.5°	188.3	162.2	131.6	102.6	81.2	73.4	67.4	62.8	65.8	62.8	61.2
70°	137.8	116.4	94.9	78.0	62.8	55.2	50.6	49.0	46.0	46.0	46.0
72.5°	91.9	78.0	64.2	50.6	41.4	33.6	32.2	29.1	26.0	27.6	30.6
75°	61.2	52.0	46.0	36.8	27.6	27.6	18.4	18.4	15.4	18.4	13.8
77.5°	42.8	35.2	27.6	23.0	18.4	16.8	12.2	12.2	10.8	10.8	10.8
80°	30.6	26.0	20.0	16.8	12.2	12.2	10.8	9.2	7.6	7.6	9.2
82.5°	18.4	13.8	13.8	12.2	7.6	6.2	4.6	6.2	3.1	3.1	3.1
85°	10.8	9.2	7.6	4.6	3.1	3.1	1.5	0.0	1.5	1.5	0.0
87.5°	6.2	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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CATALOG NUMBER: LSR8B80D010 EC8B80930 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2
2.5°	3153.6	3152.0	3155.1	3155.1	3164.2	3162.7	3167.3	3167.3	3164.2	3165.8	3171.9
5°	3164.2	3168.8	3178.0	3185.8	3199.4	3205.6	3213.2	3221.0	3222.4	3227.0	3231.6
7.5°	3164.2	3179.6	3190.4	3204.0	3222.4	3233.2	3250.0	3263.8	3269.8	3277.5	3286.8
10°	3158.1	3173.4	3193.4	3208.6	3231.6	3248.4	3265.2	3286.8	3296.0	3308.2	3320.4
12.5°	3145.9	3162.7	3184.1	3204.0	3230.0	3245.4	3266.8	3286.8	3300.6	3317.4	3331.2
15°	3127.6	3147.4	3167.3	3187.2	3214.8	3233.2	3253.0	3276.0	3289.8	3308.2	3320.4
17.5°	3098.4	3119.9	3138.2	3156.6	3182.6	3204.0	3222.4	3243.8	3257.6	3273.0	3289.8
20°	3063.2	3083.1	3103.0	3118.4	3144.4	3162.7	3182.6	3202.6	3213.2	3216.4	3242.4
22.5°	3018.9	3032.6	3047.9	3072.4	3087.7	3104.6	3123.0	3141.3	3152.0	3168.8	3178.0
25°	2945.3	2959.1	2975.9	2986.7	3005.1	3018.9	3037.2	3057.1	3063.2	3075.5	3084.7
27.5°	2842.9	2850.5	2858.1	2867.3	2877.9	2885.7	2896.3	2905.5	2911.7	2917.7	2923.9
30°	2680.5	2680.5	2680.5	2674.4	2679.0	2683.6	2685.1	2683.6	2683.6	2682.1	2682.1
32.5°	2466.2	2454.0	2440.2	2428.0	2423.4	2417.2	2414.2	2409.6	2402.0	2397.4	2398.8
35°	2176.9	2149.3	2132.5	2117.1	2104.9	2095.7	2091.1	2086.5	2085.1	2078.9	2072.7
37.5°	1815.6	1795.7	1783.5	1774.3	1763.6	1754.4	1755.8	1757.4	1762.0	1759.0	1760.4
40°	1432.9	1428.3	1432.9	1422.2	1419.1	1422.2	1429.8	1440.6	1446.7	1452.8	1463.5
42.5°	1089.9	1097.6	1108.3	1108.3	1112.9	1119.1	1128.2	1145.1	1154.2	1164.9	1177.3
45°	820.6	829.8	843.6	848.0	851.2	858.8	869.6	883.2	889.4	898.6	909.4
47.5°	632.2	638.4	646.0	653.7	661.3	664.4	675.1	675.1	682.8	688.9	691.9
50°	492.9	499.1	505.1	509.7	512.9	517.5	520.5	525.1	526.5	529.7	531.1
52.5°	385.7	393.5	393.5	396.5	401.1	405.7	404.1	405.7	407.1	407.1	411.7
55°	301.5	301.5	306.1	306.1	309.3	307.7	309.3	309.3	309.3	309.3	310.7
57.5°	225.0	226.6	231.2	228.1	226.6	229.6	226.6	229.6	228.1	231.2	226.6
60°	173.0	173.0	174.5	174.5	176.0	176.0	176.0	174.5	174.5	173.0	173.0
62.5°	130.1	131.6	133.2	131.6	131.6	131.6	130.1	130.1	128.6	127.0	127.0
65°	87.3	85.8	88.8	85.8	87.3	87.3	85.8	87.3	82.6	84.2	82.6
67.5°	62.8	61.2	59.7	61.2	59.7	58.2	58.2	59.7	61.2	56.6	56.6
70°	41.4	42.8	41.4	42.8	44.4	44.4	42.8	41.4	42.8	39.8	41.4
72.5°	26.0	26.0	26.0	26.0	26.0	27.6	27.6	27.6	24.5	24.5	23.0
75°	12.2	16.8	13.8	12.2	16.8	16.8	15.4	15.4	13.8	13.8	13.8
77.5°	12.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	7.6	9.2	7.6
80°	6.2	6.2	6.2	4.6	6.2	6.2	7.6	6.2	6.2	4.6	7.6
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: P248967

CATALOG NUMBER: LSR8B80D010 EC8B80930 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2
2.5°	3170.4	3168.8	3170.4	3171.9	3170.4	3168.8	3170.4	3171.9	3165.8	3164.2	3167.3
5°	3237.8	3237.8	3240.8	3242.4	3240.8	3237.8	3237.8	3231.6	3227.0	3222.4	3221.0
7.5°	3296.0	3299.0	3302.0	3303.6	3302.0	3299.0	3296.0	3286.8	3277.5	3269.8	3263.8
10°	3331.2	3335.8	3341.8	3344.8	3341.8	3335.8	3331.2	3320.4	3308.2	3296.0	3286.8
12.5°	3346.4	3351.0	3358.6	3357.2	3358.6	3351.0	3346.4	3331.2	3317.4	3300.6	3286.8
15°	3335.8	3341.8	3349.4	3352.6	3349.4	3341.8	3335.8	3320.4	3308.2	3289.8	3276.0
17.5°	3302.0	3311.2	3315.8	3320.4	3315.8	3311.2	3302.0	3289.8	3273.0	3257.6	3243.8
20°	3256.1	3262.2	3268.4	3269.8	3268.4	3262.2	3256.1	3242.4	3216.4	3213.2	3202.6
22.5°	3190.4	3195.0	3208.6	3204.0	3208.6	3195.0	3190.4	3178.0	3168.8	3152.0	3141.3
25°	3095.3	3100.0	3101.6	3103.0	3101.6	3100.0	3095.3	3084.7	3075.5	3063.2	3057.1
27.5°	2931.6	2931.6	2934.7	2936.2	2934.7	2931.6	2931.6	2923.9	2917.7	2911.7	2905.5
30°	2683.6	2683.6	2683.6	2691.3	2683.6	2683.6	2683.6	2682.1	2682.1	2683.6	2683.6
32.5°	2397.4	2394.2	2391.2	2394.2	2391.2	2394.2	2397.4	2398.8	2397.4	2402.0	2409.6
35°	2072.7	2071.3	2075.9	2069.7	2075.9	2071.3	2072.7	2072.7	2078.9	2085.1	2086.5
37.5°	1762.0	1759.0	1765.0	1759.0	1765.0	1759.0	1762.0	1760.4	1759.0	1762.0	1757.4
40°	1466.6	1469.6	1469.6	1481.8	1469.6	1469.6	1466.6	1463.5	1452.8	1446.7	1440.6
42.5°	1183.3	1192.5	1189.5	1198.7	1189.5	1192.5	1183.3	1177.3	1164.9	1154.2	1145.1
45°	915.4	921.6	921.6	924.6	921.6	921.6	915.4	909.4	898.6	889.4	883.2
47.5°	702.6	702.6	702.6	704.2	702.6	702.6	702.6	691.9	688.9	682.8	675.1
50°	534.3	535.8	537.4	538.9	537.4	535.8	534.3	531.1	529.7	526.5	525.1
52.5°	410.3	411.7	408.7	411.7	408.7	411.7	410.3	411.7	407.1	407.1	405.7
55°	310.7	309.3	310.7	312.3	310.7	309.3	310.7	310.7	309.3	309.3	309.3
57.5°	228.1	225.0	225.0	225.0	225.0	225.0	228.1	226.6	231.2	228.1	229.6
60°	169.9	171.4	171.4	173.0	171.4	171.4	169.9	173.0	173.0	174.5	174.5
62.5°	125.6	130.1	127.0	130.1	127.0	130.1	125.6	127.0	127.0	128.6	130.1
65°	81.2	81.2	81.2	82.6	81.2	81.2	81.2	82.6	84.2	82.6	87.3
67.5°	55.2	56.6	59.7	58.2	59.7	56.6	55.2	56.6	56.6	61.2	59.7
70°	44.4	39.8	39.8	44.4	39.8	39.8	44.4	41.4	39.8	42.8	41.4
72.5°	26.0	23.0	26.0	26.0	26.0	23.0	26.0	23.0	24.5	24.5	27.6
75°	13.8	12.2	10.8	15.4	10.8	12.2	13.8	13.8	13.8	13.8	15.4
77.5°	9.2	7.6	10.8	10.8	10.8	7.6	9.2	7.6	9.2	7.6	9.2
80°	4.6	6.2	4.6	7.6	4.6	6.2	4.6	7.6	4.6	6.2	6.2
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: P248967

CATALOG NUMBER: LSR8B80D010 EC8B80930 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2
2.5°	3167.3	3162.7	3164.2	3155.1	3155.1	3152.0	3153.6	3145.9	3142.8	3139.8	3144.4
5°	3213.2	3205.6	3199.4	3185.8	3178.0	3168.8	3164.2	3152.0	3141.3	3132.1	3130.6
7.5°	3250.0	3233.2	3222.4	3204.0	3190.4	3179.6	3164.2	3147.4	3133.6	3121.4	3112.2
10°	3265.2	3248.4	3231.6	3208.6	3193.4	3173.4	3158.1	3136.7	3118.4	3101.6	3090.7
12.5°	3266.8	3245.4	3230.0	3204.0	3184.1	3162.7	3145.9	3121.4	3100.0	3083.1	3066.3
15°	3253.0	3233.2	3214.8	3187.2	3167.3	3147.4	3127.6	3101.6	3081.6	3061.7	3049.5
17.5°	3222.4	3204.0	3182.6	3156.6	3138.2	3119.9	3098.4	3077.0	3054.1	3032.6	3017.3
20°	3182.6	3162.7	3144.4	3118.4	3103.0	3083.1	3063.2	3040.3	3021.9	3000.5	2983.7
22.5°	3123.0	3104.6	3087.7	3072.4	3047.9	3032.6	3018.9	2992.8	2974.5	2954.5	2936.2
25°	3037.2	3018.9	3005.1	2986.7	2975.9	2959.1	2945.3	2922.4	2905.5	2887.1	2871.9
27.5°	2896.3	2885.7	2877.9	2867.3	2858.1	2850.5	2842.9	2824.4	2812.1	2795.3	2780.1
30°	2685.1	2683.6	2679.0	2674.4	2680.5	2680.5	2680.5	2677.5	2666.7	2654.4	2643.8
32.5°	2414.2	2417.2	2423.4	2428.0	2440.2	2454.0	2466.2	2472.3	2472.3	2464.6	2460.0
35°	2091.1	2095.7	2104.9	2117.1	2132.5	2149.3	2176.9	2183.0	2187.5	2187.5	2181.5
37.5°	1755.8	1754.4	1763.6	1774.3	1783.5	1795.7	1815.6	1820.2	1827.8	1824.8	1818.6
40°	1429.8	1422.2	1419.1	1422.2	1432.9	1428.3	1432.9	1429.8	1429.8	1419.1	1419.1
42.5°	1128.2	1119.1	1112.9	1108.3	1108.3	1097.6	1089.9	1082.3	1077.7	1070.1	1068.5
45°	869.6	858.8	851.2	848.0	843.6	829.8	820.6	811.4	800.6	797.6	799.2
47.5°	675.1	664.4	661.3	653.7	646.0	638.4	632.2	621.6	619.9	613.9	619.9
50°	520.5	517.5	512.9	509.7	505.1	499.1	492.9	486.9	483.7	483.7	485.3
52.5°	404.1	405.7	401.1	396.5	393.5	393.5	385.7	384.3	384.3	378.1	384.3
55°	309.3	307.7	309.3	306.1	306.1	301.5	301.5	297.0	297.0	292.4	295.5
57.5°	226.6	229.6	226.6	228.1	231.2	226.6	225.0	220.4	223.5	220.4	222.0
60°	176.0	176.0	176.0	174.5	174.5	173.0	173.0	171.4	171.4	168.4	171.4
62.5°	130.1	131.6	131.6	131.6	133.2	131.6	130.1	131.6	130.1	130.1	131.6
65°	85.8	87.3	87.3	85.8	88.8	85.8	87.3	88.8	90.2	88.8	90.2
67.5°	58.2	58.2	59.7	61.2	59.7	61.2	62.8	61.2	62.8	65.8	62.8
70°	42.8	44.4	44.4	42.8	41.4	42.8	41.4	46.0	46.0	46.0	49.0
72.5°	27.6	27.6	26.0	26.0	26.0	26.0	26.0	30.6	27.6	26.0	29.1
75°	15.4	16.8	16.8	12.2	13.8	16.8	12.2	13.8	18.4	15.4	18.4
77.5°	9.2	9.2	9.2	9.2	9.2	9.2	12.2	10.8	10.8	10.8	12.2
80°	7.6	6.2	6.2	4.6	6.2	6.2	6.2	9.2	7.6	7.6	9.2
82.5°	3.1	3.1	1.5	0.0	3.1	3.1	3.1	3.1	3.1	3.1	6.2
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: P248967

CATALOG NUMBER: LSR8B80D010 EC8B80930 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2
2.5°	3132.1	3132.1	3130.6	3127.6	3121.4	3121.4	3119.9	3115.3	3112.2	3110.7	3110.7
5°	3116.8	3110.7	3104.6	3087.7	3087.7	3084.7	3075.5	3069.3	3066.3	3058.6	3055.6
7.5°	3103.0	3084.7	3073.9	3063.2	3049.5	3043.3	3032.6	3028.0	3017.3	3009.7	3005.1
10°	3069.3	3057.1	3043.3	3026.5	3015.8	3003.5	2991.3	2982.1	2968.3	2960.7	2954.5
12.5°	3046.4	3028.0	3015.8	2997.3	2979.1	2968.3	2951.5	2940.8	2927.0	2911.7	2902.5
15°	3025.0	3005.1	2988.2	2968.3	2948.5	2936.2	2916.3	2904.1	2884.1	2868.9	2858.1
17.5°	2992.8	2975.9	2957.6	2933.1	2914.7	2899.5	2877.9	2862.7	2844.3	2824.4	2813.7
20°	2959.1	2939.3	2920.9	2896.3	2877.9	2859.7	2838.3	2821.3	2799.9	2781.5	2769.3
22.5°	2914.7	2891.7	2876.5	2851.9	2830.5	2810.7	2790.7	2770.9	2750.9	2735.6	2721.8
25°	2850.5	2825.9	2809.1	2789.2	2769.3	2754.1	2729.5	2717.3	2697.4	2683.6	2669.8
27.5°	2758.6	2740.2	2724.9	2705.0	2688.2	2675.9	2657.6	2645.3	2628.4	2616.2	2605.5
30°	2623.9	2608.6	2594.8	2574.9	2562.6	2552.0	2535.0	2524.4	2512.2	2498.4	2495.3
32.5°	2443.2	2431.0	2417.2	2403.4	2394.2	2388.1	2374.3	2368.2	2356.0	2348.3	2340.6
35°	2170.7	2160.1	2152.4	2146.3	2143.2	2144.7	2141.7	2147.8	2150.9	2149.3	2150.9
37.5°	1814.1	1807.9	1811.0	1815.6	1830.9	1850.8	1869.2	1896.7	1915.1	1933.5	1950.3
40°	1416.0	1420.6	1432.9	1460.4	1500.2	1544.6	1586.0	1638.0	1690.1	1726.8	1760.4
42.5°	1068.5	1082.3	1112.9	1152.7	1212.5	1278.3	1342.6	1419.1	1481.8	1543.1	1586.0
45°	803.8	822.0	861.8	917.0	982.8	1059.3	1140.5	1226.1	1301.3	1364.0	1411.5
47.5°	626.2	643.0	682.8	741.0	822.0	901.7	985.9	1074.7	1152.7	1213.9	1255.3
50°	494.5	515.9	551.1	612.3	693.5	777.6	865.0	952.2	1025.7	1077.7	1114.5
52.5°	388.9	408.7	442.3	506.7	589.4	673.6	754.7	840.4	904.8	955.2	979.8
55°	301.5	319.9	355.1	408.7	486.9	569.5	650.6	724.2	783.8	820.6	843.6
57.5°	229.6	243.4	267.9	321.5	391.9	468.5	537.4	610.8	656.8	682.8	698.0
60°	174.5	185.3	211.3	252.6	316.9	382.7	440.9	496.0	532.8	554.2	569.5
62.5°	131.6	143.9	162.2	197.5	246.4	300.1	349.0	390.3	420.9	434.7	445.5
65°	90.2	99.5	113.3	140.8	182.2	220.4	258.7	289.3	309.3	324.5	330.7
67.5°	67.4	73.4	81.2	102.6	131.6	162.2	188.3	209.7	231.2	237.3	248.0
70°	50.6	55.2	62.8	78.0	94.9	116.4	137.8	150.0	165.3	176.0	179.1
72.5°	32.2	33.6	41.4	50.6	64.2	78.0	91.9	102.6	111.8	117.9	121.0
75°	18.4	27.6	27.6	36.8	46.0	52.0	61.2	68.8	73.4	78.0	78.0
77.5°	12.2	16.8	18.4	23.0	27.6	35.2	42.8	47.4	52.0	53.6	53.6
80°	10.8	12.2	12.2	16.8	20.0	26.0	30.6	32.2	35.2	36.8	39.8
82.5°	4.6	6.2	7.6	12.2	13.8	13.8	18.4	20.0	23.0	24.5	24.5
85°	1.5	3.1	3.1	4.6	7.6	9.2	10.8	12.2	13.8	13.8	15.4
87.5°	1.5	1.5	0.0	1.5	3.1	3.1	6.2	6.2	6.2	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: P248967

CATALOG NUMBER: LSR8B80D010 EC8B80930 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2	3135.2
2.5°	3107.6	3109.2	3103.0	3101.6	3098.4	3100.0	3103.0
5°	3051.0	3052.5	3046.4	3040.3	3040.3	3038.7	3040.3
7.5°	2997.3	2998.9	2989.7	2986.7	2980.5	2982.1	2982.1
10°	2943.9	2943.9	2930.1	2928.5	2923.9	2922.4	2922.4
12.5°	2891.7	2887.1	2876.5	2870.3	2873.5	2864.3	2864.3
15°	2845.9	2838.3	2824.4	2819.8	2812.1	2809.1	2809.1
17.5°	2798.4	2792.3	2780.1	2770.9	2761.7	2760.1	2761.7
20°	2752.5	2746.3	2731.0	2724.9	2717.3	2717.3	2714.2
22.5°	2706.5	2700.4	2686.7	2682.1	2671.3	2671.3	2672.9
25°	2659.1	2654.4	2639.2	2636.1	2634.6	2628.4	2631.5
27.5°	2594.8	2591.8	2579.5	2574.9	2568.8	2567.3	2570.3
30°	2476.8	2472.3	2463.2	2458.6	2447.8	2449.4	2452.4
32.5°	2330.0	2323.8	2311.6	2307.0	2297.8	2294.7	2296.3
35°	2146.3	2141.7	2131.0	2131.0	2121.8	2118.7	2121.8
37.5°	1959.5	1964.1	1959.5	1964.1	1959.5	1957.9	1959.5
40°	1783.5	1800.3	1803.4	1820.2	1814.1	1823.2	1821.7
42.5°	1615.0	1642.6	1653.4	1667.0	1664.0	1670.2	1674.8
45°	1445.1	1468.1	1478.8	1488.0	1489.5	1492.6	1494.1
47.5°	1284.3	1302.7	1304.3	1314.9	1313.5	1313.5	1318.1
50°	1134.3	1146.6	1149.6	1157.3	1151.3	1148.1	1149.6
52.5°	995.1	1007.3	1004.2	1007.3	999.7	996.6	998.1
55°	852.6	858.8	858.8	858.8	849.6	849.6	849.6
57.5°	707.2	708.8	705.7	707.2	705.7	696.5	695.0
60°	574.1	574.1	572.5	574.1	569.5	564.9	564.9
62.5°	448.5	451.7	457.7	451.7	448.5	451.7	447.1
65°	335.3	341.3	339.8	342.9	341.3	341.3	338.3
67.5°	252.6	254.1	255.6	257.2	257.2	257.2	257.2
70°	185.3	189.9	188.3	188.3	188.3	188.3	197.5
72.5°	124.0	130.1	128.6	131.6	131.6	134.7	131.6
75°	84.2	90.2	87.3	91.9	90.2	87.3	94.9
77.5°	56.6	59.7	61.2	62.8	61.2	59.7	61.2
80°	39.8	42.8	41.4	42.8	42.8	42.8	44.4
82.5°	24.5	29.1	27.6	29.1	27.6	29.1	29.1
85°	16.8	18.4	15.4	18.4	16.8	16.8	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)