

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: P250910

Luminaire Tested: **LSR8B60D010 EC8B609730 8LBSW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250910  
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 EC8B609730 8LBSW0LI  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4857.0 lumens  
Efficiency: N/A  
Efficacy: 81.6 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

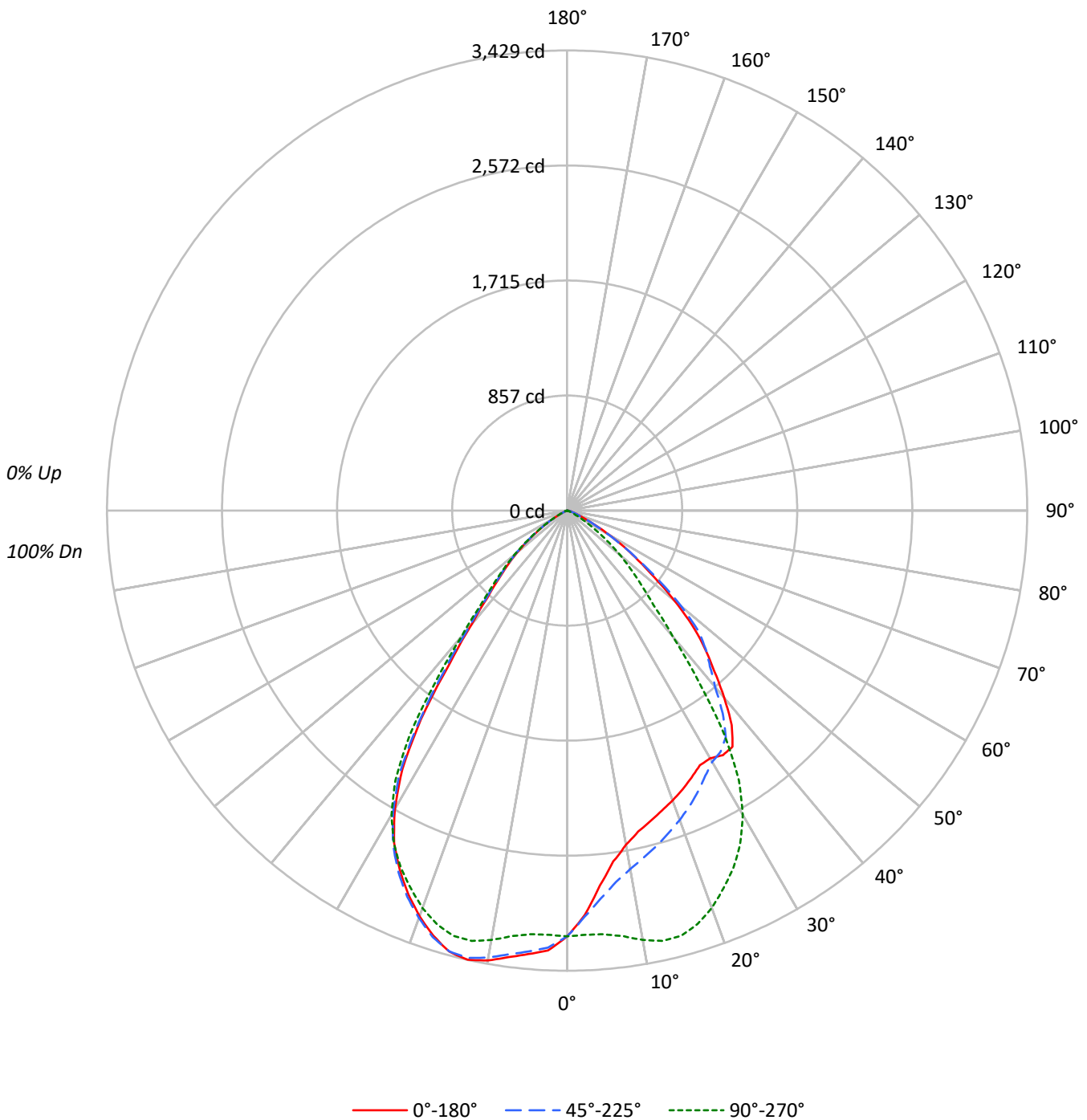
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	295.7	6.1
10°-20°	854.2	17.6
20°-30°	1239.7	25.5
30°-40°	1221.0	25.1
40°-50°	765.4	15.8
50°-60°	369.3	7.6
60°-70°	89.4	1.8
70°-80°	18.1	0.4
80°-90°	4.1	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°	2389.6	49.2
0°-40°	3610.7	74.3
0°-60°	4745.4	97.7
0°-90°	4857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4857.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3173	3173	3173	3173	3173	
5°	2804	2900	3169	3297	3317	260
15°	2396	2584	3280	3400	3402	677
25°	2194	2308	2934	2975	2953	1015
35°	2148	2061	2048	1932	1900	1300
45°	1451	1461	774	742	721	1109
55°	644	665	282	278	265	593
65°	151	149	42	36	32	172
75°	37	32	9	4	3	41
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°	3173.0	3173.0	3173.0	3173.0	3173.0	3173.0	3173.0	3173.0	3173.0	3173.0	3173.0
2.5°	3016.2	2997.1	2961.2	3004.6	3004.6	2980.4	3028.8	2999.6	3022.9	3059.6	3027.1
5°	2804.5	2788.7	2758.6	2804.5	2810.3	2787.8	2846.2	2824.5	2858.7	2903.7	2899.5
7.5°	2636.9	2616.9	2589.4	2636.9	2646.1	2631.1	2686.9	2676.9	2722.0	2780.3	2790.3
10°	2527.7	2506.9	2482.7	2526.0	2532.7	2522.7	2579.4	2573.6	2617.7	2685.3	2712.0
12.5°	2450.2	2432.7	2406.0	2451.8	2459.4	2445.2	2498.5	2496.0	2541.9	2612.7	2646.1
15°	2396.0	2375.1	2351.0	2390.2	2400.2	2384.3	2435.2	2430.2	2476.9	2546.9	2584.4
17.5°	2345.1	2326.0	2301.0	2337.6	2347.6	2331.0	2381.0	2372.6	2412.7	2479.4	2517.7
20°	2297.6	2276.8	2254.3	2291.8	2297.6	2278.4	2328.5	2317.6	2353.5	2415.2	2452.7
22.5°	2248.4	2226.8	2203.4	2240.1	2245.9	2226.8	2272.6	2260.1	2293.4	2349.3	2383.5
25°	2194.2	2174.2	2150.9	2185.1	2190.1	2169.2	2217.6	2201.7	2230.9	2280.1	2308.5
27.5°	2140.1	2120.9	2095.0	2130.0	2132.5	2112.5	2156.7	2135.1	2159.2	2204.2	2228.4
30°	2130.9	2109.2	2082.5	2110.9	2111.7	2085.9	2127.5	2101.7	2115.0	2148.4	2162.6
32.5°	2160.1	2138.4	2110.9	2134.2	2131.7	2103.4	2143.4	2111.7	2115.9	2133.4	2130.0
35°	2148.4	2122.5	2090.0	2115.0	2115.0	2080.9	2120.9	2083.4	2079.2	2081.7	2060.9
37.5°	2015.8	1995.8	1965.0	1989.2	1986.7	1960.8	1991.7	1960.8	1946.6	1940.8	1903.3
40°	1820.8	1796.6	1773.2	1799.1	1801.6	1774.1	1814.1	1779.1	1774.9	1758.2	1714.0
42.5°	1623.2	1614.8	1592.3	1614.0	1625.7	1602.3	1635.7	1619.0	1621.5	1617.3	1575.7
45°	1450.6	1436.4	1419.8	1444.8	1452.3	1440.6	1473.9	1463.9	1473.9	1494.8	1460.6
47.5°	1264.7	1250.5	1232.2	1258.9	1272.2	1250.5	1278.9	1275.5	1290.5	1326.4	1323.0
50°	1040.4	1030.4	1027.1	1030.4	1038.8	1028.8	1048.8	1049.6	1059.6	1108.8	1112.1
52.5°	823.7	821.2	809.5	820.3	820.3	804.5	824.5	815.3	825.3	858.7	880.4
55°	644.4	641.9	634.4	644.4	633.6	627.8	633.6	624.4	616.9	642.8	665.3
57.5°	501.9	493.5	484.4	488.5	487.7	475.2	481.9	471.0	465.2	474.4	494.4
60°	357.6	355.1	346.8	351.0	354.3	345.1	351.8	346.8	336.8	344.3	345.1
62.5°	237.6	239.3	234.3	235.1	232.6	230.9	235.1	237.6	235.1	231.8	232.6
65°	150.9	150.1	149.2	150.1	151.7	148.4	150.9	152.6	150.1	150.1	149.2
67.5°	100.0	97.5	95.0	96.7	98.4	95.9	98.4	97.5	98.4	97.5	95.0
70°	67.5	66.7	65.9	66.7	66.7	65.0	66.7	65.9	66.7	65.9	63.4
72.5°	49.2	49.2	48.4	49.2	49.2	47.5	48.4	46.7	47.5	46.7	45.0
75°	36.7	36.7	35.8	36.7	35.8	35.0	35.8	35.0	33.3	33.3	31.7
77.5°	26.7	26.7	26.7	26.7	26.7	25.8	25.8	25.0	24.2	23.3	23.3
80°	20.0	19.2	19.2	19.2	19.2	18.3	19.2	18.3	17.5	16.7	15.8
82.5°	14.2	15.0	14.2	14.2	14.2	13.3	14.2	13.3	13.3	12.5	10.8
85°	10.8	10.8	10.8	10.8	10.8	10.0	10.0	10.0	9.2	9.2	8.3
87.5°	5.8	5.8	5.8	6.7	5.8	5.8	5.8	5.0	5.0	4.2	4.2
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3173.0	3173.0	3173.0	3173.0	3173.0	3173.0	3173.0	3173.0	3173.0	3173.0	3173.0
2.5°	3070.4	3074.6	3065.4	3079.6	3134.6	3090.4	3108.8	3114.6	3156.3	3163.8	3158.8
5°	2953.7	2972.1	2983.7	3015.4	3076.3	3044.6	3077.1	3097.9	3151.3	3168.8	3173.0
7.5°	2862.0	2900.4	2928.7	2980.4	3052.1	3027.9	3077.1	3111.3	3176.3	3198.8	3209.7
10°	2793.7	2852.0	2901.2	2972.1	3052.9	3037.1	3101.3	3149.6	3222.2	3248.8	3262.2
12.5°	2742.0	2812.8	2878.7	2968.7	3056.3	3048.8	3126.3	3181.3	3258.0	3284.7	3300.5
15°	2685.3	2767.0	2843.7	2944.6	3038.8	3037.1	3120.5	3178.8	3257.2	3279.7	3294.7
17.5°	2617.7	2705.3	2789.5	2898.7	2992.1	2993.7	3077.9	3135.5	3212.2	3230.5	3240.5
20°	2549.4	2636.1	2720.3	2832.8	2924.5	2927.0	3009.6	3062.9	3136.3	3151.3	3153.8
22.5°	2476.9	2557.7	2641.9	2753.6	2842.0	2843.7	2925.4	2975.4	3037.9	3045.4	3052.1
25°	2394.3	2473.5	2552.7	2663.6	2747.8	2752.8	2827.0	2871.2	2928.7	2934.5	2937.0
27.5°	2308.5	2373.5	2449.3	2544.4	2629.4	2626.1	2696.1	2746.1	2797.8	2794.5	2793.7
30°	2221.8	2275.9	2322.6	2414.3	2476.9	2479.4	2545.2	2569.4	2623.6	2616.9	2616.1
32.5°	2160.9	2175.1	2187.6	2234.3	2293.4	2272.6	2317.6	2347.6	2385.2	2382.7	2383.5
35°	2049.2	2023.3	1985.8	1992.5	2028.3	1995.8	2020.0	2019.2	2057.5	2048.3	2059.2
37.5°	1858.3	1784.9	1701.5	1654.0	1660.7	1619.8	1611.5	1631.5	1644.8	1619.0	1628.2
40°	1654.9	1546.5	1416.4	1308.0	1302.2	1251.4	1242.2	1222.2	1248.0	1226.3	1233.0
42.5°	1504.8	1361.4	1190.5	1058.8	1030.4	987.9	962.9	959.6	967.1	952.1	947.9
45°	1389.7	1237.2	1041.3	890.4	858.7	812.8	787.8	778.7	779.5	774.5	770.3
47.5°	1254.7	1101.3	902.9	748.6	712.8	669.4	644.4	638.6	641.9	635.3	630.3
50°	1067.9	930.4	749.5	608.6	576.9	545.2	525.2	519.4	518.5	513.5	510.2
52.5°	867.0	752.8	596.1	478.5	450.2	419.3	405.2	397.7	398.5	393.5	388.5
55°	671.1	600.2	461.9	361.8	336.0	311.8	298.5	289.3	286.8	281.8	279.3
57.5°	499.4	451.9	346.0	260.9	245.9	222.6	209.3	198.4	196.7	194.2	193.4
60°	350.1	316.0	243.4	185.9	168.4	154.2	140.9	130.1	125.1	124.2	121.7
62.5°	226.8	205.9	160.1	124.2	110.9	100.9	87.5	80.0	76.7	73.4	74.2
65°	140.9	125.1	100.0	80.0	72.5	65.0	55.0	48.4	45.0	41.7	42.5
67.5°	87.5	78.4	63.4	51.7	46.7	40.9	33.3	28.3	25.8	23.3	21.7
70°	59.2	50.9	43.4	36.7	33.3	29.2	24.2	20.0	18.3	16.7	15.0
72.5°	41.7	37.5	31.7	27.5	25.0	21.7	18.3	15.8	14.2	12.5	10.8
75°	30.0	26.7	23.3	20.0	18.3	16.7	14.2	12.5	10.8	9.2	7.5
77.5°	21.7	19.2	16.7	15.0	14.2	11.7	10.0	9.2	8.3	6.7	5.0
80°	15.0	13.3	10.8	10.0	10.0	8.3	7.5	6.7	5.8	4.2	3.3
82.5°	10.0	9.2	8.3	7.5	6.7	5.8	5.8	4.2	3.3	2.5	1.7
85°	7.5	6.7	5.8	5.0	5.0	4.2	3.3	2.5	2.5	1.7	0.8
87.5°	4.2	4.2	3.3	2.5	2.5	1.7	1.7	0.8	0.8	0.8	0.8
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°	3173.0	3173.0	3173.0	3173.0	3173.0	3173.0	3173.0	3173.0	3173.0	3173.0	3173.0
2.5°	3201.3	3203.8	3218.0	3207.2	3234.7	3254.7	3244.7	3267.2	3259.7	3258.0	3283.9
5°	3223.0	3228.8	3248.0	3238.0	3268.0	3289.7	3279.7	3304.7	3297.2	3295.5	3322.2
7.5°	3264.7	3270.5	3287.2	3278.9	3310.5	3329.7	3317.2	3344.7	3334.7	3333.9	3359.7
10°	3317.2	3325.5	3339.7	3331.4	3360.6	3377.2	3364.7	3391.4	3382.2	3378.1	3406.4
12.5°	3356.4	3362.2	3376.4	3369.7	3398.1	3410.6	3399.7	3425.6	3413.9	3410.6	3435.6
15°	3347.2	3353.1	3364.7	3358.9	3385.6	3397.2	3383.1	3411.4	3399.7	3393.1	3415.6
17.5°	3288.9	3292.2	3300.5	3294.7	3323.0	3330.5	3314.7	3343.0	3332.2	3320.5	3342.2
20°	3203.0	3201.3	3206.3	3203.8	3227.2	3231.3	3221.3	3242.2	3229.7	3223.0	3235.5
22.5°	3096.3	3094.6	3097.9	3091.3	3114.6	3117.1	3102.1	3127.1	3114.6	3102.1	3123.0
25°	2977.9	2968.7	2967.1	2969.6	2985.4	2987.9	2972.1	2990.4	2974.6	2964.6	2984.6
27.5°	2832.0	2820.3	2817.8	2820.3	2836.2	2824.5	2811.2	2824.5	2808.7	2799.5	2812.0
30°	2651.9	2635.3	2627.8	2622.8	2639.4	2635.3	2604.4	2619.4	2594.4	2581.1	2590.2
32.5°	2409.3	2400.2	2380.2	2368.5	2384.3	2352.6	2333.5	2333.5	2323.5	2301.0	2306.0
35°	2072.5	2058.4	2040.0	2030.0	2032.5	1990.0	1958.3	1965.0	1931.6	1925.8	1928.3
37.5°	1646.5	1623.2	1616.5	1595.7	1600.7	1563.1	1519.8	1520.6	1503.1	1484.8	1478.9
40°	1237.2	1233.0	1226.3	1208.8	1215.5	1174.7	1158.0	1158.8	1147.1	1133.8	1140.5
42.5°	956.2	942.9	938.7	932.9	934.6	927.9	906.2	908.7	898.7	895.4	892.0
45°	777.0	762.8	752.8	757.8	757.8	750.3	742.0	747.0	742.0	735.3	738.6
47.5°	640.3	626.9	621.9	621.1	626.9	621.9	613.6	615.3	614.4	611.9	610.3
50°	511.0	507.7	503.5	501.0	503.5	501.9	494.4	498.5	501.0	492.7	495.2
52.5°	389.3	389.3	388.5	382.7	387.7	382.7	381.8	383.5	381.0	377.7	376.8
55°	285.1	282.6	278.4	277.6	279.3	277.6	275.9	276.8	278.4	270.1	270.1
57.5°	195.1	193.4	190.9	190.9	194.2	190.1	187.6	190.9	187.6	184.2	184.2
60°	125.1	124.2	121.7	121.7	121.7	120.9	118.4	119.2	120.9	115.9	116.7
62.5°	75.0	72.5	71.7	70.9	71.7	70.9	70.9	70.0	69.2	69.2	66.7
65°	40.9	39.2	37.5	38.3	38.3	37.5	37.5	37.5	35.8	35.0	34.2
67.5°	20.8	19.2	19.2	18.3	18.3	18.3	18.3	17.5	17.5	17.5	16.7
70°	13.3	12.5	11.7	11.7	11.7	10.8	10.8	10.8	10.8	10.8	10.0
72.5°	9.2	8.3	7.5	7.5	7.5	6.7	6.7	6.7	6.7	5.8	5.8
75°	6.7	5.8	5.0	5.0	5.0	4.2	4.2	4.2	4.2	4.2	4.2
77.5°	4.2	3.3	3.3	3.3	3.3	2.5	2.5	2.5	2.5	2.5	1.7
80°	2.5	2.5	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8
82.5°	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
87.5°	0.8	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: P250910

CATALOG NUMBER: LSR8B60D010 EC8B609730 8LBSWOLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3173.0	3173.0	3173.0	3173.0	3173.0	3173.0	3173.0	3173.0
2.5°	3274.7	3268.0	3272.2	3303.0	3289.7	3285.5	3250.5	3281.4
5°	3313.9	3308.9	3308.9	3343.9	3328.0	3324.7	3290.5	3317.2
7.5°	3350.6	3345.6	3346.4	3382.2	3369.7	3364.7	3330.5	3357.2
10°	3398.1	3394.7	3395.6	3429.8	3416.4	3411.4	3376.4	3403.9
12.5°	3426.4	3421.4	3421.4	3458.1	3443.1	3435.6	3402.2	3428.9
15°	3404.7	3397.2	3397.2	3433.9	3417.2	3406.4	3377.2	3402.2
17.5°	3330.5	3323.0	3323.0	3354.7	3342.2	3326.4	3296.4	3319.7
20°	3227.2	3218.0	3215.5	3252.2	3234.7	3220.5	3193.8	3216.3
22.5°	3110.5	3106.3	3098.8	3135.5	3119.6	3104.6	3076.3	3093.8
25°	2970.4	2963.7	2956.2	2992.1	2976.2	2961.2	2938.7	2952.9
27.5°	2796.2	2797.0	2792.8	2821.2	2805.3	2797.0	2769.5	2792.8
30°	2585.2	2576.1	2572.7	2606.1	2591.1	2580.2	2546.1	2568.6
32.5°	2310.1	2296.8	2279.3	2316.8	2290.9	2281.8	2252.6	2285.1
35°	1910.0	1905.8	1889.9	1921.6	1907.5	1890.8	1872.4	1900.0
37.5°	1476.4	1479.8	1478.1	1486.4	1478.1	1467.3	1447.3	1437.3
40°	1127.1	1118.8	1112.1	1127.1	1109.6	1109.6	1098.0	1110.5
42.5°	883.7	880.4	888.7	892.0	882.0	880.4	878.7	877.9
45°	729.5	729.5	731.1	734.5	731.1	729.5	724.5	721.1
47.5°	601.1	604.4	601.1	611.9	606.1	604.4	594.4	598.6
50°	486.9	482.7	486.9	490.2	491.0	486.0	481.0	483.5
52.5°	377.7	371.0	369.3	374.3	371.0	371.0	367.7	366.8
55°	265.9	268.4	264.3	268.4	266.8	264.3	261.8	265.1
57.5°	180.1	180.9	179.2	181.7	177.6	178.4	177.6	176.7
60°	116.7	113.4	113.4	115.9	111.7	111.7	110.9	110.9
62.5°	66.7	65.9	65.9	65.0	64.2	64.2	64.2	62.5
65°	34.2	33.3	32.5	32.5	32.5	32.5	31.7	31.7
67.5°	16.7	15.8	15.8	16.7	15.8	15.8	15.8	15.8
70°	10.0	10.0	9.2	10.0	9.2	9.2	9.2	9.2
72.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
75°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
77.5°	2.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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)