

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: P249271

Luminaire Tested: **LSR8B60D010 EC8B60950 8LBDW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249271  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B60D010 EC8B60950 8LBDW0WMH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5801.0 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

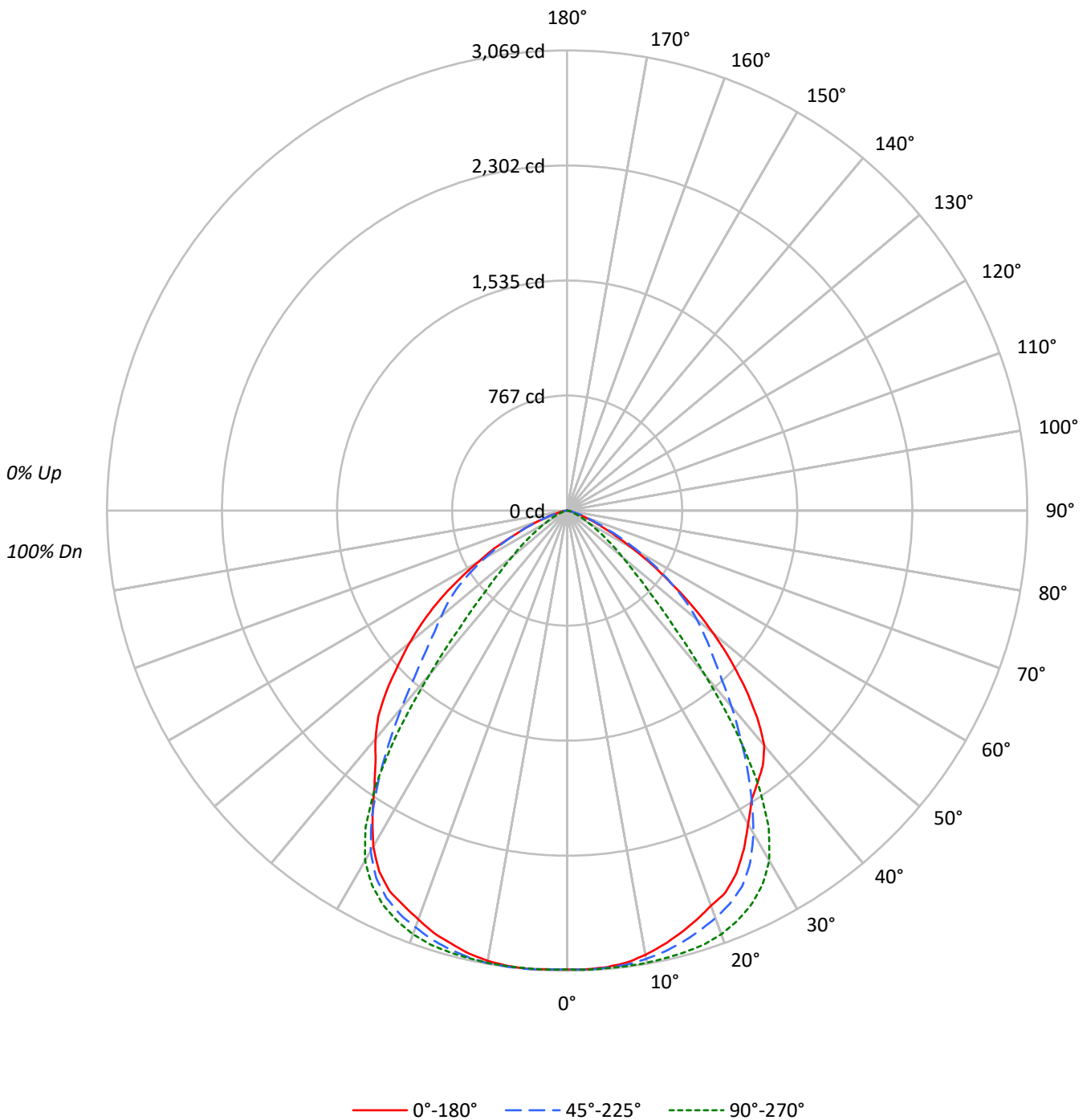
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	94381	94381	94381
5°	94590	94843	94946
10°	94190	95890	95477
15°	93148	97292	95456
20°	92031	98659	95210
25°	90834	98772	95308
30°	85933	95996	92075
35°	83367	83431	84297
40°	82335	57402	80021
45°	73364	34460	74367
50°	61002	22936	65732
55°	45751	15811	55735
60°	31003	10534	42048
65°	18701	6837	28887
70°	10368	3706	17770
75°	4694	1561	9198
80°	4084	1740	6411
85°	4635	2335	6404



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.1	5.0
10°-20°	848.3	14.6
20°-30°	1287.6	22.2
30°-40°	1352.3	23.3
40°-50°	1013.9	17.5
50°-60°	650.5	11.2
60°-70°	278.3	4.8
70°-80°	65.7	1.1
80°-90°	12.2	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°	2428.0	41.9
0°-40°	3780.3	65.2
0°-60°	5444.7	93.9
0°-90°	5801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5801.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3061	3061	3061	3061	3061	
5°	3056	3061	3064	3069	3067	290
15°	2918	2979	3048	3028	2990	823
25°	2670	2763	2903	2850	2801	1220
35°	2215	2091	2216	2190	2239	1390
45°	1682	1375	790	1336	1705	1288
55°	851	851	294	887	1037	772
65°	256	302	94	389	396	274
75°	39	46	13	79	77	57
85°	13	8	7	13	18	14
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°	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7
2.5°	3062.4	3065.7	3064.0	3064.0	3062.4	3064.0	3064.0	3067.3	3067.3	3064.0	3062.4
5°	3055.8	3059.1	3059.1	3055.8	3055.8	3064.0	3059.1	3062.4	3062.4	3060.7	3060.7
7.5°	3041.0	3041.0	3047.6	3042.7	3042.7	3047.6	3045.9	3049.2	3052.5	3054.2	3054.2
10°	3008.1	3011.4	3013.1	3013.1	3014.7	3019.6	3022.9	3029.5	3032.8	3036.1	3037.7
12.5°	2967.1	2972.0	2973.7	2972.0	2976.9	2983.5	2991.7	2999.9	3004.9	3011.4	3016.4
15°	2917.8	2917.8	2921.1	2926.0	2929.3	2939.2	2947.4	2957.2	2970.4	2978.6	2986.8
17.5°	2863.6	2866.9	2871.8	2871.8	2878.4	2894.8	2899.7	2914.5	2929.3	2937.5	2954.0
20°	2804.5	2807.7	2812.7	2815.9	2824.1	2837.3	2847.1	2860.3	2876.7	2891.5	2907.9
22.5°	2758.4	2751.9	2755.1	2758.4	2766.7	2778.2	2789.7	2806.1	2822.5	2837.3	2853.7
25°	2669.7	2671.4	2676.3	2679.6	2689.4	2699.3	2712.4	2732.1	2746.9	2763.4	2781.4
27.5°	2549.8	2551.4	2559.6	2559.6	2567.8	2584.3	2592.5	2608.9	2628.7	2645.1	2666.4
30°	2413.4	2416.7	2416.7	2423.3	2428.2	2436.4	2444.6	2461.1	2470.9	2485.7	2515.3
32.5°	2288.6	2291.8	2290.2	2288.6	2283.6	2282.0	2280.3	2283.6	2286.9	2291.8	2303.3
35°	2214.6	2206.4	2199.9	2188.4	2175.2	2158.8	2144.0	2124.3	2106.2	2091.4	2075.0
37.5°	2144.0	2142.3	2132.5	2116.0	2089.8	2060.2	2025.7	1983.0	1940.3	1894.3	1849.9
40°	2045.4	2040.5	2032.3	2009.3	1979.7	1943.5	1897.6	1845.0	1776.0	1705.3	1633.0
42.5°	1877.8	1879.5	1869.6	1851.5	1823.6	1789.1	1741.5	1684.0	1610.1	1526.2	1432.6
45°	1682.3	1682.3	1679.0	1664.2	1644.5	1616.6	1580.5	1532.8	1460.6	1375.1	1274.9
47.5°	1478.6	1480.3	1475.3	1472.1	1463.8	1445.8	1419.5	1383.3	1332.4	1250.2	1150.0
50°	1271.6	1271.6	1279.8	1278.2	1278.2	1271.6	1260.1	1238.7	1194.4	1128.7	1035.0
52.5°	1064.6	1067.9	1072.8	1079.4	1087.6	1100.7	1087.6	1077.7	1049.8	998.9	918.4
55°	851.0	854.3	862.5	874.0	883.9	897.0	900.3	900.3	885.5	851.0	790.2
57.5°	668.7	663.7	670.3	680.2	693.3	706.5	716.3	727.8	726.2	703.2	653.9
60°	502.7	504.4	509.3	519.2	529.0	540.5	553.7	563.5	568.5	557.0	525.7
62.5°	366.4	366.4	372.9	382.8	387.7	404.2	412.4	417.3	422.2	420.6	400.9
65°	256.3	259.6	262.9	267.8	272.7	282.6	287.5	297.4	300.6	302.3	287.5
67.5°	180.7	175.8	179.1	182.3	187.3	193.9	203.7	203.7	208.6	208.6	198.8
70°	115.0	115.0	116.7	121.6	124.9	126.5	129.8	133.1	138.0	136.4	136.4
72.5°	77.2	75.6	77.2	78.9	80.5	85.4	85.4	87.1	90.4	92.0	85.4
75°	39.4	41.1	44.3	42.7	47.6	44.3	46.0	50.9	49.3	46.0	46.0
77.5°	32.8	32.8	32.8	31.2	34.5	34.5	32.8	36.1	34.5	34.5	32.8
80°	23.0	24.6	23.0	21.3	23.0	21.3	21.3	21.3	21.3	21.3	19.7
82.5°	18.1	14.8	16.4	14.8	16.4	16.4	14.8	13.1	13.1	14.8	13.1
85°	13.1	9.8	11.5	11.5	9.8	9.8	9.8	9.8	9.8	8.2	8.2
87.5°	8.2	4.9	4.9	4.9	6.6	6.6	6.6	4.9	6.6	6.6	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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7
2.5°	3065.7	3064.0	3067.3	3065.7	3065.7	3064.0	3065.7	3064.0	3067.3	3060.7	3062.4
5°	3065.7	3062.4	3064.0	3065.7	3067.3	3064.0	3064.0	3064.0	3067.3	3064.0	3065.7
7.5°	3059.1	3057.4	3062.4	3065.7	3064.0	3062.4	3065.7	3064.0	3067.3	3065.7	3068.9
10°	3045.9	3047.6	3050.9	3055.8	3057.4	3059.1	3062.4	3062.4	3067.3	3060.7	3064.0
12.5°	3026.2	3032.8	3041.0	3044.3	3050.9	3050.9	3054.2	3055.8	3059.1	3057.4	3062.4
15°	3001.6	3009.8	3019.6	3027.9	3036.1	3041.0	3045.9	3047.6	3052.5	3047.6	3049.2
17.5°	2972.0	2981.9	2996.6	3006.5	3019.6	3024.6	3031.1	3034.4	3039.4	3036.1	3037.7
20°	2930.9	2942.5	2958.9	2973.7	2981.9	2993.3	3001.6	3006.5	3009.8	3006.5	3008.1
22.5°	2873.4	2889.9	2911.2	2922.7	2939.2	2949.0	2950.7	2962.2	2970.4	2962.2	2965.4
25°	2806.1	2822.5	2838.9	2863.6	2878.4	2889.9	2901.4	2903.0	2911.2	2909.6	2907.9
27.5°	2694.3	2715.7	2743.6	2763.4	2783.1	2801.2	2814.3	2817.6	2825.8	2822.5	2824.1
30°	2541.6	2564.6	2590.9	2622.1	2650.0	2668.1	2684.5	2696.0	2704.2	2699.3	2697.6
32.5°	2324.7	2347.7	2375.6	2406.8	2439.7	2466.0	2485.7	2500.5	2510.4	2507.1	2498.9
35°	2076.6	2083.2	2101.3	2125.9	2153.8	2181.8	2199.9	2216.3	2227.8	2231.1	2231.1
37.5°	1822.0	1800.6	1787.5	1787.5	1803.9	1815.4	1831.8	1841.7	1859.8	1866.3	1871.3
40°	1575.5	1526.2	1480.3	1445.8	1422.8	1421.1	1421.1	1426.0	1442.5	1463.8	1483.5
42.5°	1355.4	1276.5	1205.9	1141.8	1095.8	1069.5	1058.0	1059.7	1072.8	1092.5	1125.4
45°	1179.6	1081.0	992.3	915.1	852.7	811.6	791.9	790.2	800.1	823.1	859.3
47.5°	1043.2	938.1	837.9	749.2	681.8	637.4	614.4	607.9	614.4	635.8	678.5
50°	929.9	821.5	718.0	625.9	553.7	507.7	486.3	478.1	486.3	504.4	547.1
52.5°	824.7	713.0	616.1	527.4	450.2	410.7	387.7	382.8	387.7	409.1	443.6
55°	703.2	607.9	512.6	423.9	356.5	317.1	299.0	294.1	299.0	318.7	354.9
57.5°	583.2	501.1	417.3	336.8	279.3	244.8	228.4	221.8	233.3	246.4	289.2
60°	471.5	405.8	335.1	264.5	216.9	185.6	172.5	170.8	174.1	190.6	220.1
62.5°	369.7	315.4	259.6	202.1	162.6	149.5	133.1	131.5	134.7	144.6	167.6
65°	266.2	231.7	188.9	147.9	116.7	98.6	92.0	93.7	96.9	103.5	124.9
67.5°	185.6	161.0	131.5	103.5	80.5	72.3	65.7	64.1	65.7	77.2	88.7
70°	124.9	110.1	88.7	78.9	55.9	44.3	46.0	41.1	47.6	47.6	57.5
72.5°	82.1	72.3	59.1	46.0	39.4	31.2	31.2	29.6	32.8	34.5	42.7
75°	42.7	32.8	32.8	23.0	16.4	8.2	14.8	13.1	11.5	13.1	16.4
77.5°	29.6	24.6	23.0	18.1	16.4	13.1	13.1	13.1	13.1	14.8	16.4
80°	18.1	18.1	13.1	11.5	9.8	8.2	9.8	9.8	9.8	9.8	11.5
82.5°	11.5	9.8	9.8	8.2	8.2	6.6	6.6	6.6	6.6	6.6	9.8
85°	9.8	6.6	6.6	4.9	6.6	11.5	4.9	6.6	6.6	6.6	4.9
87.5°	3.3	4.9	4.9	4.9	3.3	1.6	3.3	4.9	4.9	8.2	6.6
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°	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7	3060.7
2.5°	3065.7	3067.3	3067.3	3065.7	3065.7	3062.4	3068.9	3064.0	3065.7	3072.2	3067.3
5°	3068.9	3070.6	3070.6	3068.9	3068.9	3068.9	3070.6	3070.6	3068.9	3067.3	3070.6
7.5°	3075.5	3073.9	3073.9	3070.6	3070.6	3067.3	3070.6	3065.7	3068.9	3065.7	3070.6
10°	3067.3	3068.9	3067.3	3065.7	3065.7	3064.0	3064.0	3059.1	3060.7	3055.8	3059.1
12.5°	3062.4	3060.7	3060.7	3057.4	3054.2	3050.9	3049.2	3044.3	3044.3	3032.8	3037.7
15°	3049.2	3050.9	3045.9	3039.4	3036.1	3027.9	3024.6	3018.0	3011.4	3003.2	3004.9
17.5°	3037.7	3032.8	3026.2	3019.6	3006.5	2999.9	2993.3	2983.5	2980.2	2970.4	2967.1
20°	3003.2	2999.9	2991.7	2980.2	2972.0	2957.2	2950.7	2940.8	2932.6	2922.7	2917.8
22.5°	2958.9	2955.6	2945.7	2934.2	2921.1	2914.5	2907.9	2889.9	2881.6	2871.8	2870.1
25°	2903.0	2898.1	2888.2	2875.1	2868.5	2850.4	2843.8	2830.7	2827.4	2817.6	2815.9
27.5°	2817.6	2811.0	2799.5	2783.1	2771.6	2760.1	2753.5	2743.6	2740.4	2730.5	2728.9
30°	2689.4	2681.2	2658.2	2651.7	2631.9	2620.4	2620.4	2607.3	2608.9	2602.4	2602.4
32.5°	2487.4	2474.2	2456.1	2443.0	2429.8	2423.3	2423.3	2418.3	2421.6	2421.6	2424.9
35°	2219.6	2201.5	2191.6	2183.4	2183.4	2190.0	2209.7	2214.6	2224.5	2232.7	2239.3
37.5°	1876.2	1874.6	1886.1	1895.9	1920.6	1948.5	1983.0	2012.6	2040.5	2060.2	2079.9
40°	1504.9	1546.0	1578.8	1624.8	1662.6	1716.8	1779.3	1830.2	1877.8	1912.4	1948.5
42.5°	1174.7	1227.2	1296.3	1363.6	1431.0	1504.9	1587.1	1657.7	1720.1	1767.8	1805.5
45°	915.1	987.4	1071.2	1156.6	1243.7	1335.7	1421.1	1493.4	1559.1	1608.4	1646.2
47.5°	737.7	816.5	911.8	1005.5	1104.0	1200.9	1296.3	1358.7	1412.9	1452.3	1486.8
50°	609.5	693.3	793.5	900.3	998.9	1095.8	1178.0	1238.7	1283.1	1317.6	1339.0
52.5°	509.3	598.0	704.8	811.6	910.1	998.9	1072.8	1118.8	1155.0	1179.6	1199.3
55°	420.6	506.0	606.2	706.5	803.4	887.2	947.9	982.5	1010.4	1025.2	1036.7
57.5°	343.4	422.2	514.2	606.2	690.0	759.0	806.7	841.2	854.3	865.8	864.2
60°	269.5	343.4	427.2	506.0	578.3	634.1	668.7	688.4	698.2	703.2	699.9
62.5°	211.9	279.3	343.4	412.4	464.9	512.6	545.5	545.5	550.4	552.0	557.0
65°	157.7	208.6	264.5	315.4	358.1	389.4	407.5	412.4	419.0	417.3	414.0
67.5°	116.7	154.4	195.5	233.3	262.9	282.6	295.7	307.2	305.6	302.3	300.6
70°	80.5	105.2	141.3	164.3	185.6	205.4	208.6	210.3	211.9	213.6	210.3
72.5°	55.9	73.9	93.7	113.4	126.5	134.7	142.9	144.6	144.6	144.6	142.9
75°	27.9	37.8	55.9	64.1	75.6	78.9	85.4	85.4	90.4	83.8	82.1
77.5°	24.6	29.6	39.4	46.0	50.9	55.9	57.5	62.4	60.8	57.5	59.1
80°	14.8	18.1	24.6	27.9	34.5	36.1	37.8	39.4	37.8	39.4	39.4
82.5°	11.5	13.1	16.4	16.4	21.3	21.3	23.0	23.0	24.6	24.6	24.6
85°	6.6	11.5	9.8	19.7	13.1	13.1	16.4	19.7	16.4	16.4	19.7
87.5°	6.6	6.6	4.9	6.6	6.6	6.6	8.2	9.8	9.8	11.5	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: P249271

CATALOG NUMBER: LSR8B60D010 EC8B60950 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	3060.7	3060.7	3060.7	3060.7
2.5°	3065.7	3068.9	3064.0	3062.4
5°	3070.6	3070.6	3067.3	3067.3
7.5°	3070.6	3070.6	3065.7	3062.4
10°	3057.4	3057.4	3052.5	3049.2
12.5°	3032.8	3032.8	3031.1	3026.2
15°	3001.6	3001.6	2995.0	2990.1
17.5°	2958.9	2962.2	2954.0	2954.0
20°	2912.9	2911.2	2904.7	2901.4
22.5°	2865.2	2861.9	2860.3	2850.4
25°	2814.3	2811.0	2806.1	2801.2
27.5°	2727.2	2725.6	2720.6	2714.1
30°	2594.1	2592.5	2585.9	2585.9
32.5°	2421.6	2420.0	2413.4	2415.1
35°	2242.5	2249.1	2245.8	2239.3
37.5°	2093.0	2098.0	2101.3	2098.0
40°	1968.2	1983.0	1984.6	1987.9
42.5°	1835.1	1854.8	1861.4	1864.7
45°	1675.7	1693.8	1708.6	1705.3
47.5°	1513.1	1526.2	1539.4	1529.5
50°	1357.0	1365.2	1370.2	1370.2
52.5°	1209.2	1209.2	1207.5	1209.2
55°	1040.0	1040.0	1033.4	1036.7
57.5°	862.5	865.8	860.9	852.7
60°	698.2	690.0	686.7	681.8
62.5°	543.8	543.8	532.3	547.1
65°	407.5	402.5	397.6	395.9
67.5°	295.7	294.1	289.2	287.5
70°	208.6	202.1	200.4	197.1
72.5°	139.7	139.7	136.4	136.4
75°	85.4	77.2	75.6	77.2
77.5°	59.1	57.5	57.5	55.9
80°	39.4	37.8	41.1	36.1
82.5°	24.6	26.3	24.6	26.3
85°	16.4	19.7	18.1	18.1
87.5°	9.8	9.8	9.8	9.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)