

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: P248533

Luminaire Tested: **LSR8B60D010 EC8B60930 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248533  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B60D010 EC8B60930 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5262.0 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

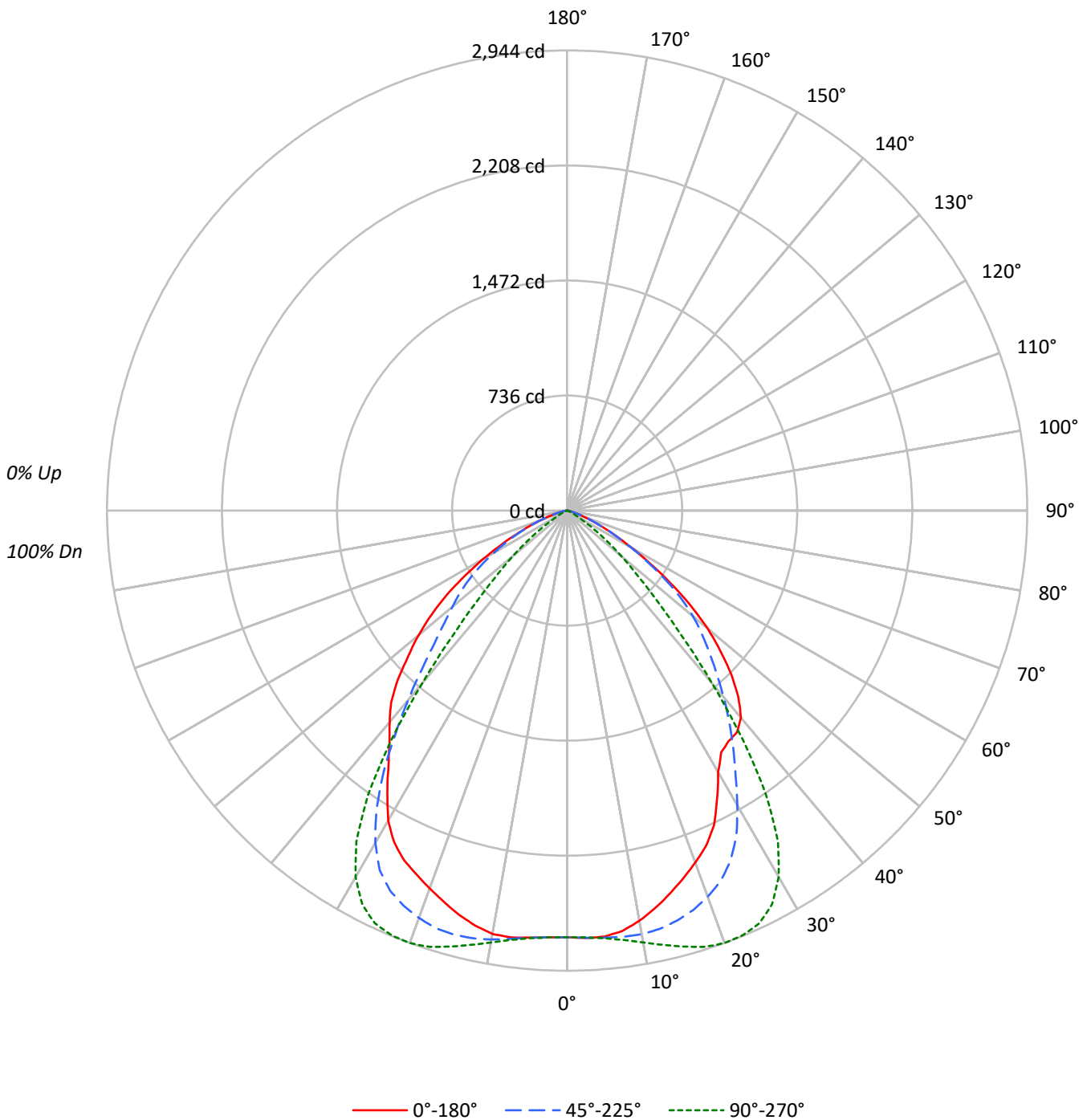
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90		
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79		
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70		
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62		
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56		
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50		
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45		
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41		
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38		
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34		

**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°	262.5	5.0
10°-20°	777.7	14.8
20°-30°	1186.4	22.5
30°-40°	1238.0	23.5
40°-50°	929.9	17.7
50°-60°	572.2	10.9
60°-70°	232.9	4.4
70°-80°	54.9	1.0
80°-90°	7.6	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°	2226.6	42.3
0°-40°	3464.6	65.8
0°-60°	4966.7	94.4
0°-90°	5262.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5262.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2730	2730	2730	2730	2730	
5°	2736	2743	2746	2743	2743	259
15°	2537	2715	2888	2808	2676	715
25°	2223	2472	2912	2682	2469	1010
35°	1801	1852	2218	2050	1992	1137
45°	1487	1287	803	1198	1533	1134
55°	803	762	210	762	940	722
65°	251	254	32	340	361	261
75°	44	44	6	77	80	52
85°	4	4	2	10	13	6
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°	2729.7	2729.7	2729.7	2729.7	2729.7	2729.7	2729.7	2729.7	2729.7	2729.7	2729.7
2.5°	2737.0	2732.7	2737.0	2737.0	2738.5	2735.6	2737.0	2738.5	2735.6	2735.6	2735.6
5°	2735.6	2732.7	2735.6	2734.1	2737.0	2737.0	2739.9	2739.9	2742.8	2742.8	2747.1
7.5°	2712.4	2706.5	2712.4	2716.7	2719.5	2725.4	2732.7	2738.5	2744.2	2750.0	2757.3
10°	2664.5	2664.5	2668.9	2677.6	2686.3	2696.5	2709.5	2723.9	2738.5	2751.5	2764.5
12.5°	2605.1	2600.8	2609.5	2621.0	2634.1	2650.0	2670.3	2692.1	2715.3	2741.3	2761.6
15°	2537.0	2532.7	2542.9	2554.4	2570.3	2593.5	2618.2	2647.1	2680.5	2715.3	2748.6
17.5°	2467.4	2466.0	2476.2	2492.1	2505.2	2529.8	2561.7	2596.5	2634.1	2680.5	2723.9
20°	2396.5	2395.0	2405.2	2418.2	2435.6	2458.8	2490.6	2531.2	2576.2	2628.3	2679.1
22.5°	2322.6	2324.1	2332.7	2347.3	2361.7	2386.4	2419.7	2460.3	2509.5	2566.0	2622.5
25°	2222.6	2215.4	2227.0	2241.4	2266.1	2286.4	2318.2	2361.7	2412.4	2471.8	2538.5
27.5°	2077.8	2076.3	2086.4	2099.4	2121.2	2145.8	2180.6	2225.5	2279.1	2344.3	2409.5
30°	1932.8	1935.7	1940.1	1953.1	1967.6	1992.2	2027.0	2064.7	2115.4	2177.7	2247.3
32.5°	1834.3	1834.3	1840.1	1848.8	1859.0	1872.0	1896.6	1924.2	1963.3	2006.7	2057.5
35°	1801.0	1795.2	1801.0	1802.5	1803.9	1806.8	1811.1	1819.8	1832.8	1851.7	1870.5
37.5°	1786.5	1782.2	1782.2	1776.3	1769.2	1760.4	1748.9	1735.8	1721.3	1702.5	1688.0
40°	1730.0	1727.1	1724.2	1718.4	1702.5	1685.1	1666.3	1635.8	1602.5	1556.1	1509.8
42.5°	1621.3	1618.4	1616.9	1605.4	1590.9	1570.6	1548.9	1517.0	1475.0	1415.6	1348.9
45°	1486.6	1480.7	1476.5	1466.3	1456.2	1438.8	1418.5	1389.5	1347.4	1286.7	1207.0
47.5°	1330.1	1327.2	1325.7	1321.4	1311.2	1301.1	1288.1	1264.9	1227.3	1169.2	1086.7
50°	1172.1	1166.4	1169.2	1167.9	1163.5	1156.2	1147.6	1131.6	1102.6	1050.5	975.2
52.5°	991.1	991.1	989.6	994.0	995.4	994.0	995.4	978.1	953.4	914.3	850.5
55°	802.6	802.6	807.0	812.8	818.7	820.1	818.7	811.4	794.0	762.2	705.6
57.5°	626.0	623.1	631.7	640.4	646.3	652.0	647.6	641.9	631.7	605.7	562.2
60°	476.6	476.6	482.5	488.3	494.0	499.9	498.4	496.9	488.3	470.9	436.2
62.5°	350.6	352.1	352.1	356.5	362.2	368.0	372.4	368.0	363.7	352.1	328.9
65°	250.7	249.2	250.7	255.0	259.4	265.1	268.0	266.6	262.2	253.6	236.2
67.5°	168.0	166.6	172.4	173.9	176.8	182.6	181.2	182.6	181.2	173.9	159.4
70°	110.1	107.2	110.1	108.6	113.0	114.5	117.4	118.8	117.4	113.0	108.6
72.5°	68.2	66.7	68.2	69.5	71.0	72.4	75.3	75.3	73.9	71.0	65.2
75°	43.5	39.1	40.6	37.7	40.6	40.6	43.5	45.0	43.5	43.5	40.6
77.5°	26.1	26.1	26.1	26.1	26.1	26.1	26.1	27.6	28.9	26.1	24.7
80°	13.0	13.0	14.5	14.5	14.5	15.9	14.5	14.5	14.5	15.9	11.5
82.5°	10.1	8.6	8.6	8.6	10.1	8.6	8.6	8.6	8.6	8.6	8.6
85°	4.4	5.8	4.4	2.9	4.4	4.4	5.8	4.4	4.4	4.4	5.8
87.5°	1.5	1.5	0.0	0.0	0.0	1.5	0.0	1.5	1.5	2.9	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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2729.7	2729.7	2729.7	2729.7	2729.7	2729.7	2729.7	2729.7	2729.7	2729.7	2729.7
2.5°	2737.0	2734.1	2734.1	2732.7	2735.6	2732.7	2734.1	2732.7	2732.7	2735.6	2732.7
5°	2747.1	2748.6	2745.7	2744.2	2748.6	2748.6	2748.6	2745.7	2745.7	2747.1	2745.7
7.5°	2761.6	2764.5	2766.0	2767.4	2770.3	2771.8	2771.8	2770.3	2768.9	2773.2	2767.4
10°	2777.5	2781.9	2790.6	2795.0	2802.2	2802.2	2805.1	2805.1	2802.2	2805.1	2803.6
12.5°	2771.8	2797.8	2812.4	2822.5	2832.7	2841.3	2844.2	2845.7	2844.2	2850.0	2844.2
15°	2781.9	2803.6	2826.8	2844.2	2863.0	2873.1	2876.0	2887.7	2890.6	2892.1	2883.3
17.5°	2766.0	2805.1	2829.7	2855.7	2883.3	2902.2	2919.5	2926.8	2928.3	2931.1	2919.5
20°	2729.7	2773.2	2810.9	2848.6	2880.4	2909.4	2923.9	2944.2	2938.4	2950.0	2934.0
22.5°	2680.5	2729.7	2777.5	2826.8	2860.1	2895.0	2925.4	2939.8	2947.1	2947.1	2929.7
25°	2602.3	2660.2	2712.4	2763.0	2813.8	2855.7	2890.6	2912.4	2916.6	2915.2	2895.0
27.5°	2480.5	2542.9	2603.7	2661.7	2723.9	2773.2	2813.8	2839.8	2847.1	2847.1	2825.4
30°	2312.4	2379.1	2438.5	2508.0	2571.8	2626.8	2683.3	2706.5	2719.5	2719.5	2695.0
32.5°	2112.5	2169.0	2224.1	2292.2	2361.7	2424.1	2477.6	2509.5	2525.5	2524.0	2502.3
35°	1895.2	1922.7	1964.8	2015.4	2077.8	2135.7	2187.9	2218.2	2245.8	2244.4	2224.1
37.5°	1677.8	1670.6	1675.0	1693.7	1732.8	1773.4	1814.0	1843.0	1866.1	1876.3	1872.0
40°	1464.8	1427.1	1390.9	1377.9	1380.8	1395.3	1417.1	1438.8	1464.8	1477.9	1483.6
42.5°	1273.6	1209.9	1146.1	1098.2	1070.8	1062.0	1072.2	1079.4	1095.3	1114.2	1133.1
45°	1120.0	1034.6	950.5	876.6	830.2	802.6	796.9	802.6	811.4	830.2	854.9
47.5°	994.0	894.0	799.8	717.2	649.1	612.9	602.8	599.8	608.6	626.0	659.3
50°	882.3	782.3	678.1	582.5	511.5	470.9	456.4	450.6	460.7	473.7	504.2
52.5°	760.7	662.2	554.9	462.2	388.3	346.3	330.4	321.6	327.4	344.8	375.3
55°	628.8	537.5	440.4	344.8	273.9	234.7	215.9	210.1	215.9	234.7	265.1
57.5°	496.9	420.2	339.0	249.2	185.4	146.4	127.5	121.7	137.7	144.9	176.8
60°	388.3	326.0	256.5	182.6	127.5	97.1	78.2	73.9	81.2	94.2	120.3
62.5°	291.2	252.1	197.1	130.4	94.2	62.3	52.1	47.9	52.1	62.3	82.6
65°	211.5	181.2	137.7	95.6	63.8	46.4	34.8	31.8	36.2	43.5	60.9
67.5°	144.9	121.7	95.6	66.7	43.5	28.9	24.7	24.7	26.1	31.8	45.0
70°	94.2	79.7	60.9	43.5	28.9	21.7	18.8	15.9	18.8	23.2	30.4
72.5°	59.4	50.7	39.1	30.4	21.7	15.9	13.0	11.5	14.5	17.4	23.2
75°	36.2	27.6	20.3	15.9	11.5	11.5	11.5	5.8	7.3	11.5	14.5
77.5°	21.7	18.8	15.9	13.0	10.1	5.8	5.8	5.8	7.3	8.6	13.0
80°	11.5	10.1	7.3	7.3	5.8	4.4	5.8	4.4	2.9	7.3	8.6
82.5°	7.3	5.8	5.8	5.8	7.3	2.9	4.4	2.9	4.4	5.8	4.4
85°	4.4	4.4	4.4	2.9	7.3	2.9	2.9	1.5	1.5	2.9	2.9
87.5°	0.0	1.5	1.5	0.0	1.5	0.0	1.5	1.5	1.5	1.5	1.5
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°	2729.7	2729.7	2729.7	2729.7	2729.7	2729.7	2729.7	2729.7	2729.7	2729.7	2729.7
2.5°	2734.1	2732.7	2734.1	2732.7	2732.7	2732.7	2734.1	2734.1	2732.7	2732.7	2735.6
5°	2745.7	2745.7	2745.7	2744.2	2742.8	2742.8	2745.7	2745.7	2741.3	2745.7	2745.7
7.5°	2770.3	2766.0	2770.3	2764.5	2761.6	2763.0	2764.5	2761.6	2758.8	2760.1	2760.1
10°	2802.2	2797.8	2797.8	2793.5	2789.2	2786.2	2783.3	2776.0	2768.9	2767.4	2761.6
12.5°	2839.8	2832.7	2828.3	2819.5	2812.4	2802.2	2793.5	2781.9	2767.4	2757.3	2747.1
15°	2877.5	2865.9	2855.7	2841.3	2825.4	2808.0	2789.2	2770.3	2747.1	2726.8	2709.5
17.5°	2908.0	2892.1	2873.1	2850.0	2826.8	2800.7	2773.2	2745.7	2712.4	2686.3	2666.0
20°	2918.1	2895.0	2870.3	2839.8	2809.5	2773.2	2738.5	2702.2	2664.5	2637.0	2613.8
22.5°	2905.1	2877.5	2847.1	2815.3	2774.7	2735.6	2695.0	2653.0	2619.7	2582.0	2560.3
25°	2868.9	2835.6	2802.2	2764.5	2725.4	2681.9	2638.5	2595.0	2554.4	2534.1	2506.7
27.5°	2795.0	2758.8	2722.5	2683.3	2638.5	2595.0	2550.1	2508.0	2473.3	2445.8	2429.9
30°	2664.5	2622.5	2580.5	2538.5	2499.4	2454.4	2412.4	2377.6	2342.9	2321.1	2305.2
32.5°	2464.6	2427.0	2384.9	2344.3	2308.1	2270.5	2235.6	2205.2	2180.6	2166.1	2154.6
35°	2195.1	2157.4	2125.5	2096.6	2066.1	2050.2	2028.4	2011.1	2001.0	1995.2	1993.7
37.5°	1856.0	1834.3	1824.2	1818.4	1812.5	1808.3	1811.1	1818.4	1824.2	1834.3	1846.0
40°	1493.8	1512.7	1518.5	1538.7	1557.5	1582.2	1609.8	1641.6	1667.7	1701.0	1724.2
42.5°	1163.5	1198.2	1238.8	1282.3	1328.6	1373.6	1428.6	1479.3	1525.7	1567.7	1603.9
45°	894.0	947.6	1008.5	1070.8	1133.1	1198.2	1264.9	1327.2	1382.3	1427.1	1464.8
47.5°	696.9	756.3	834.6	911.4	986.7	1063.5	1137.4	1202.6	1248.9	1292.4	1325.7
50°	552.0	620.1	705.6	794.0	876.6	957.7	1035.9	1096.8	1143.2	1177.9	1202.6
52.5°	427.4	508.6	595.5	688.2	776.6	865.0	937.4	994.0	1031.7	1062.0	1080.9
55°	318.7	398.4	491.2	586.8	676.6	762.2	830.2	879.5	912.8	930.2	940.3
57.5°	230.4	302.8	395.5	491.2	572.3	653.4	708.5	753.4	772.3	782.3	786.7
60°	168.0	234.7	317.4	399.9	476.6	541.9	589.8	620.1	634.6	640.4	639.0
62.5°	123.2	181.2	252.1	321.6	383.9	437.5	475.2	495.5	502.8	505.7	501.3
65°	94.2	139.1	200.0	253.6	301.3	340.4	368.0	381.0	385.4	383.9	381.0
67.5°	69.5	104.4	149.2	189.8	224.5	255.0	269.5	281.1	283.9	279.7	275.3
70°	49.3	76.8	108.6	136.2	162.3	179.7	195.6	197.1	197.1	195.6	192.7
72.5°	34.8	53.6	73.9	92.7	108.6	121.7	127.5	131.8	130.4	128.9	126.1
75°	23.2	33.3	53.6	58.0	72.4	76.8	82.6	82.6	84.1	79.7	79.7
77.5°	14.5	23.2	31.8	37.7	43.5	49.3	52.1	52.1	53.6	52.1	52.1
80°	8.6	14.5	17.4	26.1	26.1	30.4	31.8	33.3	30.4	34.8	30.4
82.5°	5.8	8.6	13.0	13.0	15.9	18.8	18.8	20.3	20.3	18.8	18.8
85°	4.4	5.8	7.3	8.6	8.6	10.1	8.6	8.6	10.1	11.5	10.1
87.5°	1.5	2.9	1.5	2.9	2.9	5.8	4.4	4.4	4.4	5.8	5.8
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: P248533

CATALOG NUMBER: LSR8B60D010 EC8B60930 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	2729.7	2729.7	2729.7	2729.7
2.5°	2732.7	2734.1	2732.7	2732.7
5°	2745.7	2744.2	2745.7	2742.8
7.5°	2755.9	2755.9	2754.4	2754.4
10°	2755.9	2750.0	2750.0	2750.0
12.5°	2734.1	2726.8	2722.5	2719.5
15°	2696.5	2683.3	2677.6	2676.2
17.5°	2647.1	2635.6	2628.3	2623.9
20°	2590.6	2579.1	2570.3	2571.8
22.5°	2541.4	2528.3	2522.6	2519.7
25°	2492.1	2476.2	2471.8	2468.9
27.5°	2412.4	2403.8	2399.4	2395.0
30°	2290.8	2286.4	2279.1	2289.3
32.5°	2150.2	2142.9	2137.2	2141.4
35°	1995.2	1990.8	1995.2	1992.2
37.5°	1853.1	1857.5	1863.3	1866.1
40°	1741.6	1757.5	1763.3	1766.2
42.5°	1630.0	1648.9	1660.4	1667.7
45°	1492.4	1511.2	1524.2	1533.0
47.5°	1350.4	1366.4	1379.4	1377.9
50°	1221.4	1230.1	1235.9	1241.7
52.5°	1091.0	1091.0	1092.4	1092.4
55°	943.2	940.3	938.8	940.3
57.5°	781.0	778.1	776.6	772.3
60°	633.1	624.5	618.7	618.7
62.5°	495.5	485.4	481.0	479.6
65°	372.4	370.9	362.2	360.7
67.5°	269.5	263.7	257.9	259.4
70°	189.8	181.2	181.2	178.2
72.5°	123.2	118.8	117.4	117.4
75°	76.8	76.8	73.9	79.7
77.5°	50.7	50.7	49.3	50.7
80°	30.4	30.4	30.4	28.9
82.5°	18.8	20.3	18.8	18.8
85°	10.1	11.5	8.6	13.0
87.5°	5.8	7.3	5.8	7.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)