

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: P249181

Luminaire Tested: **LD8B60D010 ER8B60930 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249181  
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: LD8B60D010 ER8B60930 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5221.6 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

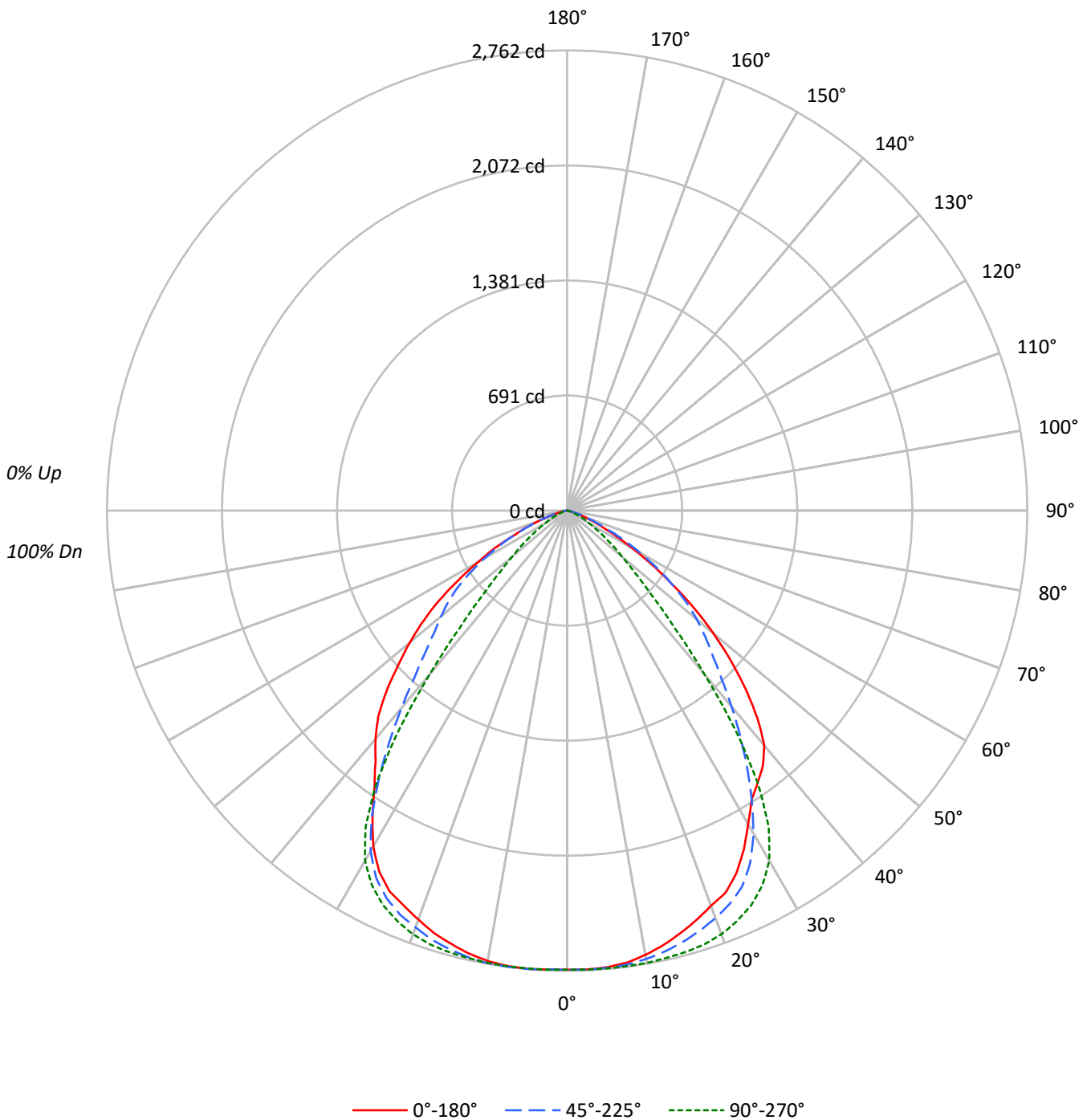
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P249181

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBDW0H

### Luminous Intensity Polar Plot





TEST NUMBER: P249181

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBDW0H

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



TEST NUMBER: P249181

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBDW0H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.9	5.0
10°-20°	763.6	14.6
20°-30°	1159.0	22.2
30°-40°	1217.3	23.3
40°-50°	912.6	17.5
50°-60°	585.6	11.2
60°-70°	250.5	4.8
70°-80°	59.2	1.1
80°-90°	11.0	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°	2185.5	41.9
0°-40°	3402.7	65.2
0°-60°	4900.9	93.9
0°-90°	5221.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5221.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2755	2755	2755	2755	2755	
5°	2751	2755	2758	2762	2761	261
15°	2626	2681	2743	2726	2691	741
25°	2403	2487	2613	2566	2521	1098
35°	1994	1882	1995	1971	2016	1251
45°	1514	1238	711	1202	1535	1160
55°	766	766	265	799	933	695
65°	231	272	84	350	356	246
75°	36	41	12	71	70	52
85°	12	7	6	12	16	13
90°	0	0	0	0	0	



TEST NUMBER: P249181

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBDW0H

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2755.1	2755.1	2755.1	2755.1	2755.1	2755.1	2755.1	2755.1	2755.1	2755.1	2755.1
2.5°	2756.5	2759.5	2758.0	2758.0	2756.5	2758.0	2758.0	2760.9	2760.9	2758.0	2756.5
5°	2750.6	2753.5	2753.5	2750.6	2750.6	2758.0	2753.5	2756.5	2756.5	2755.1	2755.1
7.5°	2737.3	2737.3	2743.2	2738.8	2738.8	2743.2	2741.7	2744.7	2747.7	2749.1	2749.1
10°	2707.7	2710.7	2712.1	2712.1	2713.6	2718.1	2721.0	2726.9	2729.9	2732.9	2734.3
12.5°	2670.8	2675.2	2676.6	2675.2	2679.6	2685.5	2693.0	2700.3	2704.7	2710.7	2715.1
15°	2626.4	2626.4	2629.3	2633.8	2636.7	2645.6	2653.0	2661.8	2673.7	2681.1	2688.5
17.5°	2577.6	2580.5	2584.9	2584.9	2590.9	2605.7	2610.1	2623.5	2636.7	2644.1	2658.9
20°	2524.4	2527.3	2531.8	2534.7	2542.1	2553.9	2562.8	2574.6	2589.4	2602.7	2617.5
22.5°	2482.9	2477.1	2480.0	2482.9	2490.3	2500.7	2511.0	2525.8	2540.6	2553.9	2568.7
25°	2403.1	2404.5	2409.0	2411.9	2420.8	2429.7	2441.5	2459.2	2472.6	2487.4	2503.6
27.5°	2295.1	2296.6	2304.0	2304.0	2311.4	2326.2	2333.6	2348.4	2366.1	2380.9	2400.2
30°	2172.4	2175.3	2175.3	2181.2	2185.7	2193.1	2200.5	2215.3	2224.2	2237.4	2264.1
32.5°	2059.9	2063.0	2061.4	2059.9	2055.6	2054.1	2052.6	2055.6	2058.5	2063.0	2073.3
35°	1993.5	1986.1	1980.1	1969.8	1957.9	1943.1	1929.8	1912.1	1895.8	1882.5	1867.8
37.5°	1929.8	1928.3	1919.5	1904.7	1881.0	1854.5	1823.4	1785.0	1746.5	1705.0	1665.1
40°	1841.1	1836.6	1829.2	1808.6	1781.9	1749.4	1708.1	1660.8	1598.5	1535.0	1470.0
42.5°	1690.2	1691.7	1682.8	1666.6	1641.5	1610.4	1567.5	1515.8	1449.2	1373.8	1289.5
45°	1514.4	1514.4	1511.3	1498.0	1480.3	1455.2	1422.7	1379.7	1314.7	1237.8	1147.6
47.5°	1331.0	1332.4	1327.9	1325.0	1317.6	1301.4	1277.7	1245.2	1199.4	1125.4	1035.1
50°	1144.7	1144.7	1152.1	1150.5	1150.5	1144.7	1134.2	1115.1	1075.2	1016.0	931.7
52.5°	958.2	961.3	965.6	971.6	979.0	990.9	979.0	970.1	945.0	899.2	826.6
55°	766.0	769.0	776.4	786.7	795.6	807.5	810.4	810.4	797.0	766.0	711.3
57.5°	601.9	597.5	603.3	612.3	624.1	635.9	644.8	655.1	653.7	632.9	588.5
60°	452.5	454.0	458.4	467.3	476.2	486.5	498.4	507.3	511.6	501.3	473.2
62.5°	329.8	329.8	335.6	344.6	349.0	363.8	371.2	375.6	380.0	378.6	360.8
65°	230.7	233.6	236.6	241.0	245.5	254.4	258.8	267.7	270.6	272.1	258.8
67.5°	162.7	158.3	161.2	164.1	168.6	174.5	183.4	183.4	187.8	187.8	178.9
70°	103.5	103.5	105.0	109.4	112.4	113.9	116.8	119.7	124.2	122.7	122.7
72.5°	69.5	68.0	69.5	71.0	72.5	76.9	76.9	78.4	81.4	82.8	76.9
75°	35.5	37.0	39.9	38.5	42.9	39.9	41.4	45.8	44.4	41.4	41.4
77.5°	29.6	29.6	29.6	28.1	31.1	31.1	29.6	32.5	31.1	31.1	29.6
80°	20.7	22.2	20.7	19.2	20.7	19.2	19.2	19.2	19.2	19.2	17.7
82.5°	16.3	13.3	14.8	13.3	14.8	14.8	13.3	11.9	11.9	13.3	11.9
85°	11.9	8.9	10.3	10.3	8.9	8.9	8.9	8.9	8.9	7.4	7.4
87.5°	7.4	4.5	4.5	4.5	5.9	5.9	5.9	4.5	5.9	5.9	2.9
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: P249181

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2755.1	2755.1	2755.1	2755.1	2755.1	2755.1	2755.1	2755.1	2755.1	2755.1	2755.1
2.5°	2759.5	2758.0	2760.9	2759.5	2759.5	2758.0	2759.5	2758.0	2760.9	2755.1	2756.5
5°	2759.5	2756.5	2758.0	2759.5	2760.9	2758.0	2758.0	2758.0	2760.9	2758.0	2759.5
7.5°	2753.5	2752.1	2756.5	2759.5	2758.0	2756.5	2759.5	2758.0	2760.9	2759.5	2762.4
10°	2741.7	2743.2	2746.1	2750.6	2752.1	2753.5	2756.5	2756.5	2760.9	2755.1	2758.0
12.5°	2724.0	2729.9	2737.3	2740.3	2746.1	2746.1	2749.1	2750.6	2753.5	2752.1	2756.5
15°	2701.8	2709.2	2718.1	2725.5	2732.9	2737.3	2741.7	2743.2	2747.7	2743.2	2744.7
17.5°	2675.2	2684.0	2697.4	2706.2	2718.1	2722.5	2728.4	2731.3	2735.8	2732.9	2734.3
20°	2638.2	2648.6	2663.4	2676.6	2684.0	2694.4	2701.8	2706.2	2709.2	2706.2	2707.7
22.5°	2586.5	2601.3	2620.4	2630.8	2645.6	2654.5	2656.0	2666.3	2673.7	2666.3	2669.3
25°	2525.8	2540.6	2555.4	2577.6	2590.9	2601.3	2611.6	2613.1	2620.4	2619.0	2617.5
27.5°	2425.3	2444.5	2469.6	2487.4	2505.1	2521.4	2533.2	2536.2	2543.5	2540.6	2542.1
30°	2287.7	2308.5	2332.1	2360.2	2385.4	2401.6	2416.4	2426.7	2434.1	2429.7	2428.2
32.5°	2092.6	2113.2	2138.4	2166.4	2196.0	2219.7	2237.4	2250.7	2259.6	2256.7	2249.3
35°	1869.3	1875.1	1891.5	1913.5	1938.8	1963.9	1980.1	1994.9	2005.2	2008.3	2008.3
37.5°	1640.0	1620.7	1609.0	1609.0	1623.8	1634.1	1648.9	1657.7	1674.0	1679.9	1684.4
40°	1418.2	1373.8	1332.4	1301.4	1280.6	1279.2	1279.2	1283.5	1298.3	1317.6	1335.3
42.5°	1220.0	1149.0	1085.5	1027.7	986.4	962.7	952.4	953.9	965.6	983.5	1012.9
45°	1061.8	973.0	893.2	823.7	767.5	730.6	712.8	711.3	720.1	740.9	773.5
47.5°	939.1	844.4	754.2	674.3	613.7	573.7	553.1	547.2	553.1	572.3	610.7
50°	837.1	739.4	646.3	563.4	498.4	456.9	437.8	430.4	437.8	454.0	492.5
52.5°	742.3	641.8	554.6	474.7	405.2	369.7	349.0	344.6	349.0	368.2	399.3
55°	632.9	547.2	461.4	381.5	320.9	285.4	269.2	264.7	269.2	286.9	319.5
57.5°	525.0	451.1	375.6	303.1	251.4	220.3	205.6	199.7	210.0	221.8	260.3
60°	424.4	365.3	301.7	238.1	195.2	167.1	155.3	153.8	156.7	171.5	198.2
62.5°	332.7	283.9	233.6	181.9	146.4	134.5	119.7	118.3	121.3	130.1	150.9
65°	239.6	208.5	170.1	133.1	105.0	88.7	82.8	84.3	87.2	93.2	112.4
67.5°	167.1	144.9	118.3	93.2	72.5	65.0	59.2	57.7	59.2	69.5	79.8
70°	112.4	99.1	79.8	71.0	50.3	39.9	41.4	37.0	42.9	42.9	51.8
72.5°	73.9	65.0	53.2	41.4	35.5	28.1	28.1	26.7	29.6	31.1	38.5
75°	38.5	29.6	29.6	20.7	14.8	7.4	13.3	11.9	10.3	11.9	14.8
77.5°	26.7	22.2	20.7	16.3	14.8	11.9	11.9	11.9	11.9	13.3	14.8
80°	16.3	16.3	11.9	10.3	8.9	7.4	8.9	8.9	8.9	8.9	10.3
82.5°	10.3	8.9	8.9	7.4	7.4	5.9	5.9	5.9	5.9	5.9	8.9
85°	8.9	5.9	5.9	4.5	5.9	10.3	4.5	5.9	5.9	5.9	4.5
87.5°	2.9	4.5	4.5	4.5	2.9	1.5	2.9	4.5	4.5	7.4	5.9
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: P249181

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2755.1	2755.1	2755.1	2755.1	2755.1	2755.1	2755.1	2755.1	2755.1	2755.1	2755.1
2.5°	2759.5	2760.9	2760.9	2759.5	2759.5	2756.5	2762.4	2758.0	2759.5	2765.4	2760.9
5°	2762.4	2763.9	2763.9	2762.4	2762.4	2762.4	2763.9	2763.9	2762.4	2760.9	2763.9
7.5°	2768.3	2766.9	2766.9	2763.9	2763.9	2760.9	2763.9	2759.5	2762.4	2759.5	2763.9
10°	2760.9	2762.4	2760.9	2759.5	2759.5	2758.0	2758.0	2753.5	2755.1	2750.6	2753.5
12.5°	2756.5	2755.1	2755.1	2752.1	2749.1	2746.1	2744.7	2740.3	2740.3	2729.9	2734.3
15°	2744.7	2746.1	2741.7	2735.8	2732.9	2725.5	2722.5	2716.5	2710.7	2703.3	2704.7
17.5°	2734.3	2729.9	2724.0	2718.1	2706.2	2700.3	2694.4	2685.5	2682.6	2673.7	2670.8
20°	2703.3	2700.3	2693.0	2682.6	2675.2	2661.8	2656.0	2647.1	2639.6	2630.8	2626.4
22.5°	2663.4	2660.4	2651.5	2641.2	2629.3	2623.5	2617.5	2601.3	2593.9	2584.9	2583.5
25°	2613.1	2608.7	2599.7	2587.9	2582.0	2565.7	2559.8	2548.0	2545.0	2536.2	2534.7
27.5°	2536.2	2530.2	2519.9	2505.1	2494.8	2484.4	2478.5	2469.6	2466.6	2457.8	2456.3
30°	2420.8	2413.4	2392.7	2386.8	2369.0	2358.7	2358.7	2346.9	2348.4	2342.4	2342.4
32.5°	2239.0	2227.1	2210.8	2199.0	2187.2	2181.2	2181.2	2176.8	2179.8	2179.8	2182.7
35°	1997.8	1981.6	1972.7	1965.3	1965.3	1971.3	1989.0	1993.5	2002.3	2009.7	2015.7
37.5°	1688.8	1687.3	1697.6	1706.6	1728.7	1753.9	1785.0	1811.5	1836.6	1854.5	1872.2
40°	1354.6	1391.6	1421.1	1462.6	1496.5	1545.4	1601.6	1647.4	1690.2	1721.4	1753.9
42.5°	1057.3	1104.6	1166.8	1227.4	1288.0	1354.6	1428.6	1492.2	1548.3	1591.1	1625.2
45°	823.7	888.7	964.2	1041.1	1119.4	1202.3	1279.2	1344.2	1403.4	1447.8	1481.7
47.5°	664.0	734.9	820.7	905.0	993.8	1081.0	1166.8	1223.0	1271.8	1307.3	1338.4
50°	548.6	624.1	714.3	810.4	899.2	986.4	1060.4	1115.1	1155.0	1186.0	1205.2
52.5°	458.4	538.3	634.4	730.6	819.2	899.2	965.6	1007.1	1039.6	1061.8	1079.5
55°	378.6	455.5	545.7	635.9	723.2	798.6	853.3	884.4	909.5	922.8	933.1
57.5°	309.1	380.0	462.9	545.7	621.1	683.2	726.1	757.1	769.0	779.3	777.9
60°	242.6	309.1	384.5	455.5	520.6	570.8	601.9	619.6	628.4	632.9	630.0
62.5°	190.8	251.4	309.1	371.2	418.5	461.4	491.0	491.0	495.4	496.8	501.3
65°	141.9	187.8	238.1	283.9	322.4	350.4	366.8	371.2	377.1	375.6	372.6
67.5°	105.0	139.0	176.0	210.0	236.6	254.4	266.1	276.6	275.1	272.1	270.6
70°	72.5	94.6	127.2	147.9	167.1	184.9	187.8	189.2	190.8	192.3	189.2
72.5°	50.3	66.6	84.3	102.0	113.9	121.3	128.7	130.1	130.1	130.1	128.7
75°	25.1	34.0	50.3	57.7	68.0	71.0	76.9	76.9	81.4	75.4	73.9
77.5°	22.2	26.7	35.5	41.4	45.8	50.3	51.8	56.2	54.7	51.8	53.2
80°	13.3	16.3	22.2	25.1	31.1	32.5	34.0	35.5	34.0	35.5	35.5
82.5°	10.3	11.9	14.8	14.8	19.2	19.2	20.7	20.7	22.2	22.2	22.2
85°	5.9	10.3	8.9	17.7	11.9	11.9	14.8	17.7	14.8	14.8	17.7
87.5°	5.9	5.9	4.5	5.9	5.9	5.9	7.4	8.9	8.9	10.3	8.9
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: P249181

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	2755.1	2755.1	2755.1	2755.1
2.5°	2759.5	2762.4	2758.0	2756.5
5°	2763.9	2763.9	2760.9	2760.9
7.5°	2763.9	2763.9	2759.5	2756.5
10°	2752.1	2752.1	2747.7	2744.7
12.5°	2729.9	2729.9	2728.4	2724.0
15°	2701.8	2701.8	2695.9	2691.4
17.5°	2663.4	2666.3	2658.9	2658.9
20°	2621.9	2620.4	2614.5	2611.6
22.5°	2579.1	2576.1	2574.6	2565.7
25°	2533.2	2530.2	2525.8	2521.4
27.5°	2454.9	2453.3	2448.9	2443.0
30°	2335.0	2333.6	2327.6	2327.6
32.5°	2179.8	2178.3	2172.4	2173.8
35°	2018.6	2024.5	2021.5	2015.7
37.5°	1884.0	1888.4	1891.5	1888.4
40°	1771.6	1785.0	1786.4	1789.3
42.5°	1651.8	1669.6	1675.6	1678.5
45°	1508.4	1524.7	1538.0	1535.0
47.5°	1362.0	1373.8	1385.7	1376.8
50°	1221.6	1228.8	1233.3	1233.3
52.5°	1088.4	1088.4	1086.9	1088.4
55°	936.0	936.0	930.2	933.1
57.5°	776.4	779.3	774.8	767.5
60°	628.4	621.1	618.1	613.7
62.5°	489.5	489.5	479.1	492.5
65°	366.8	362.3	357.8	356.4
67.5°	266.1	264.7	260.3	258.8
70°	187.8	181.9	180.4	177.5
72.5°	125.7	125.7	122.7	122.7
75°	76.9	69.5	68.0	69.5
77.5°	53.2	51.8	51.8	50.3
80°	35.5	34.0	37.0	32.5
82.5°	22.2	23.7	22.2	23.7
85°	14.8	17.7	16.3	16.3
87.5°	8.9	8.9	8.9	8.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)