

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: P248866

Luminaire Tested: **LD8B60D010 ER8B60827 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248866
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: LD8B60D010 ER8B60827 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4471.0 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

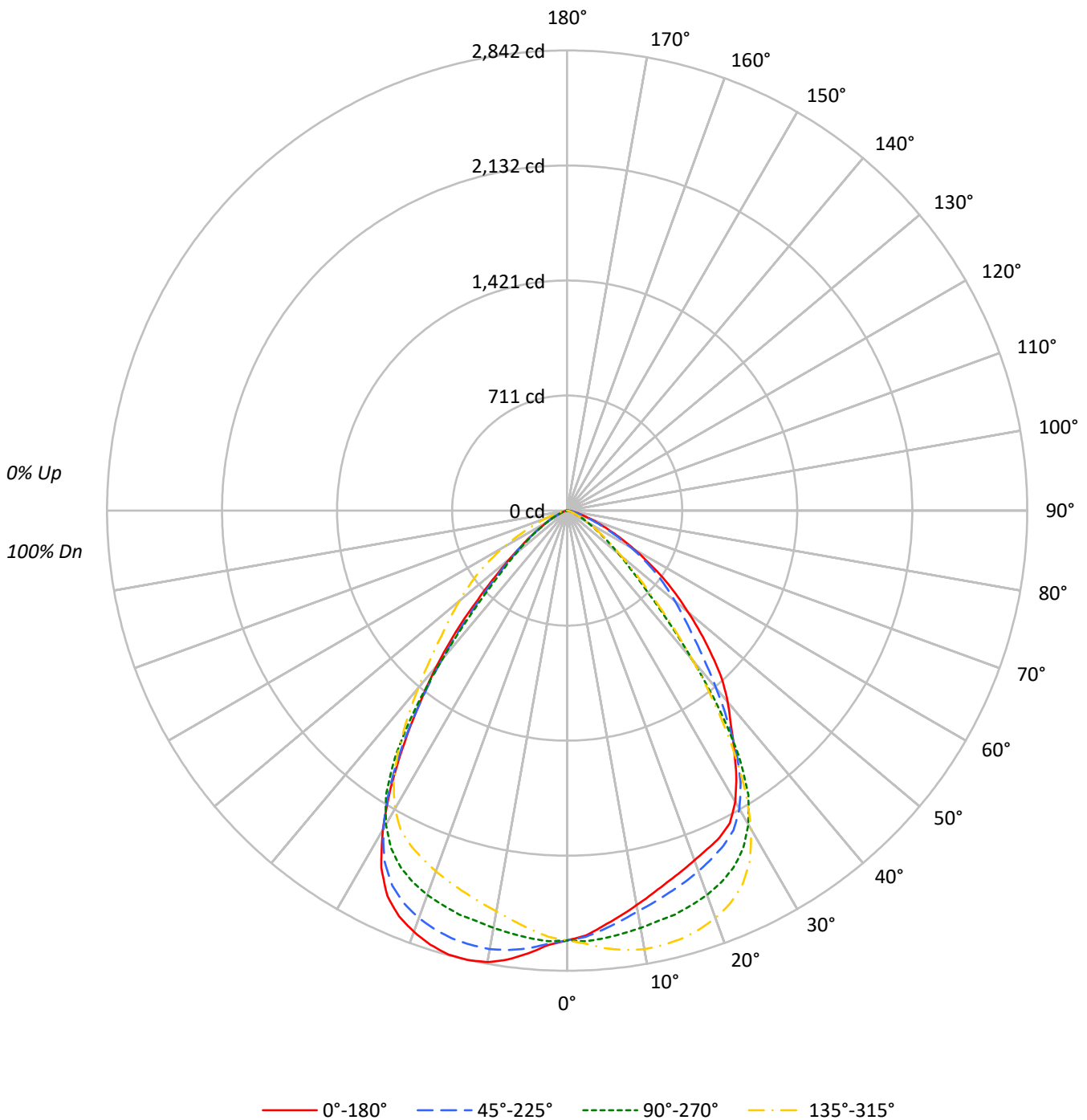
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248866

CATALOG NUMBER: LD8B60D010 ER8B60827 8LBSW0B

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	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	81849	81849	81849	81849
5°	79676	82041	84969	82041
10°	77469	81934	88669	81934
15°	75922	82418	90610	82418
20°	75406	82891	90843	82891
25°	75802	82726	89385	82726
30°	73927	79695	81130	79695
35°	67620	69521	65964	69521
40°	62084	48361	50503	48361
45°	55161	29502	34137	29502
50°	46692	19707	21885	19707
55°	38671	13446	14215	13446
60°	29492	8955	9029	8955
65°	20897	5575	5108	5575
70°	15075	3733	3390	3733
75°	9567	1859	1549	1859
80°	6677	1385	1154	1385
85°	5979	0	460	0



TEST NUMBER: P248866

CATALOG NUMBER: LD8B60D010 ER8B60827 8LBSW0B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.6	5.7
10°-20°	731.6	16.4
20°-30°	1107.8	24.8
30°-40°	1110.3	24.8
40°-50°	697.2	15.6
50°-60°	371.5	8.3
60°-70°	152.8	3.4
70°-80°	40.4	0.9
80°-90°	6.8	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°	2092.0	46.8
0°-40°	3202.3	71.6
0°-60°	4271.0	95.5
0°-90°	4471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4471.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2654	2654	2654	2654	2654	
5°	2574	2650	2745	2650	2574	243
15°	2378	2582	2838	2582	2378	673
25°	2228	2431	2627	2431	2228	1022
35°	1796	1847	1752	1847	1796	1125
45°	1265	676	783	676	1265	973
55°	719	250	264	250	719	641
65°	286	76	70	76	286	297
75°	80	16	13	16	80	91
85°	17	0	1	0	17	19
90°	0	0	0	0	0	



TEST NUMBER: P248866

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3
2.5°	2627.1	2624.5	2623.2	2625.8	2627.1	2632.3	2631.0	2633.5	2633.5	2634.9	2637.4
5°	2574.0	2572.6	2574.0	2574.0	2579.1	2584.3	2583.0	2586.9	2589.5	2596.0	2598.5
7.5°	2524.7	2524.7	2523.4	2528.6	2531.2	2539.0	2537.6	2544.1	2548.0	2554.5	2563.5
10°	2474.1	2474.1	2475.4	2479.3	2480.6	2492.3	2492.3	2501.3	2506.5	2513.0	2524.7
12.5°	2424.9	2424.9	2432.7	2430.1	2435.3	2444.3	2448.2	2457.3	2465.1	2478.0	2489.7
15°	2378.2	2378.2	2380.8	2387.3	2391.2	2402.9	2409.3	2419.7	2428.8	2441.8	2458.6
17.5°	2338.1	2336.8	2338.1	2345.8	2353.6	2364.0	2369.2	2382.1	2391.2	2408.0	2423.6
20°	2297.9	2300.5	2300.5	2307.0	2312.1	2325.1	2330.3	2344.6	2354.9	2370.4	2388.6
22.5°	2262.9	2261.6	2261.6	2270.7	2274.6	2286.2	2291.4	2304.3	2316.0	2329.0	2345.8
25°	2227.9	2225.3	2230.5	2231.8	2234.4	2247.3	2251.2	2260.3	2272.0	2283.6	2300.5
27.5°	2176.0	2173.5	2174.8	2179.9	2183.8	2194.2	2196.8	2205.9	2214.9	2225.3	2239.6
30°	2076.2	2073.7	2072.4	2081.5	2085.4	2093.1	2097.0	2112.6	2115.1	2126.8	2137.2
32.5°	1944.0	1942.8	1945.4	1953.1	1957.0	1967.4	1972.6	1981.6	1988.1	1994.6	2005.0
35°	1796.3	1793.7	1796.3	1804.1	1804.1	1813.2	1817.1	1820.9	1819.6	1820.9	1818.4
37.5°	1659.0	1657.6	1659.0	1662.8	1659.0	1662.8	1659.0	1651.2	1636.9	1621.3	1605.8
40°	1542.3	1543.6	1535.8	1541.0	1526.7	1524.2	1509.9	1490.4	1462.0	1430.9	1386.8
42.5°	1417.9	1414.0	1408.8	1411.4	1399.7	1390.6	1367.3	1342.7	1306.4	1254.6	1201.4
45°	1264.9	1263.7	1261.0	1259.8	1252.0	1242.9	1223.4	1195.0	1154.8	1101.7	1038.1
47.5°	1115.9	1112.0	1112.0	1113.3	1104.2	1102.9	1087.4	1062.8	1027.8	975.9	909.8
50°	973.3	972.0	974.6	979.8	973.3	970.7	960.4	943.5	912.4	868.4	806.1
52.5°	845.0	843.7	846.3	852.8	850.2	852.8	842.4	829.5	808.7	765.9	711.5
55°	719.3	719.3	719.3	727.1	727.1	727.1	721.9	714.1	694.7	663.6	613.1
57.5°	588.4	589.7	597.5	598.8	597.5	600.1	598.8	591.0	578.1	556.0	517.1
60°	478.2	478.2	482.1	486.0	484.7	486.0	486.0	482.1	469.2	451.0	419.9
62.5°	378.4	382.3	379.7	382.3	387.5	382.3	379.7	377.2	368.1	356.4	330.5
65°	286.4	289.0	289.0	290.3	287.7	289.0	283.9	280.0	274.8	261.8	245.0
67.5°	217.8	217.8	217.8	217.8	216.4	215.1	213.9	210.0	200.9	195.7	177.5
70°	167.2	159.4	159.4	159.4	159.4	160.7	156.8	151.7	149.0	140.0	127.0
72.5°	111.4	114.1	111.4	111.4	108.9	110.2	105.0	102.4	99.8	94.6	86.8
75°	80.3	73.9	76.4	77.8	73.9	76.4	71.3	66.1	66.1	62.2	58.3
77.5°	51.9	50.6	51.9	53.1	51.9	50.6	48.0	45.3	45.3	44.1	40.2
80°	37.6	36.3	36.3	36.3	35.0	36.3	33.7	33.7	31.1	29.8	27.2
82.5°	24.6	24.6	23.3	24.6	23.3	24.6	20.8	20.8	20.8	19.4	16.9
85°	16.9	14.2	14.2	15.6	13.0	15.6	14.2	13.0	11.7	11.7	10.3
87.5°	7.8	9.1	7.8	9.1	7.8	7.8	9.1	7.8	7.8	5.2	5.2
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: P248866

CATALOG NUMBER: LD8B60D010 ER8B60827 8LBSW0B

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3
2.5°	2641.3	2642.6	2642.6	2647.8	2650.4	2651.7	2651.7	2662.1	2658.2	2660.8	2663.4
5°	2603.8	2611.5	2614.1	2614.1	2628.4	2633.5	2638.7	2650.4	2651.7	2659.5	2668.5
7.5°	2567.4	2576.5	2581.7	2593.4	2602.4	2611.5	2627.1	2634.9	2642.6	2653.0	2664.6
10°	2532.4	2542.9	2553.2	2562.3	2576.5	2588.2	2598.5	2616.7	2625.8	2640.0	2655.6
12.5°	2498.8	2513.0	2522.1	2537.6	2553.2	2563.5	2579.1	2596.0	2610.2	2624.5	2642.6
15°	2469.0	2485.8	2496.2	2513.0	2529.9	2544.1	2561.0	2581.7	2592.1	2608.9	2625.8
17.5°	2436.5	2454.7	2467.7	2483.2	2504.0	2519.5	2533.8	2554.5	2567.4	2585.6	2605.1
20°	2402.9	2421.0	2436.5	2452.1	2472.9	2488.4	2505.2	2526.0	2540.2	2558.4	2574.0
22.5°	2362.7	2379.6	2396.4	2414.5	2435.3	2448.2	2467.7	2485.8	2501.3	2518.2	2533.8
25°	2310.8	2331.6	2344.6	2361.4	2378.2	2392.5	2413.2	2431.4	2444.3	2459.9	2474.1
27.5°	2249.9	2265.5	2275.9	2290.1	2307.0	2319.9	2335.4	2353.6	2366.6	2380.8	2391.2
30°	2146.2	2160.5	2169.6	2179.9	2196.8	2208.5	2221.4	2238.2	2247.3	2257.7	2266.8
32.5°	2010.1	2021.8	2027.0	2034.8	2046.5	2058.1	2068.5	2082.7	2086.6	2093.1	2093.1
35°	1813.2	1815.7	1814.5	1817.1	1822.3	1828.7	1837.8	1846.8	1852.0	1852.0	1848.2
37.5°	1582.5	1566.9	1550.1	1537.1	1533.2	1530.6	1535.8	1539.7	1544.9	1547.5	1541.0
40°	1342.7	1307.7	1270.1	1236.4	1213.1	1202.7	1198.8	1201.4	1201.4	1210.5	1210.5
42.5°	1136.6	1082.2	1026.5	975.9	942.2	916.3	904.6	904.6	905.9	912.4	916.3
45°	965.6	896.9	832.0	776.3	729.7	696.0	680.4	676.5	675.3	677.8	686.9
47.5°	834.7	763.4	696.0	627.3	578.1	544.3	530.1	524.9	519.7	524.9	526.2
50°	732.3	658.4	587.1	518.4	466.6	436.7	418.6	410.8	409.5	409.5	412.2
52.5°	638.9	570.3	499.0	429.0	374.5	346.1	329.2	325.3	320.1	325.3	325.3
55°	550.8	482.1	412.2	346.1	300.7	270.9	255.3	250.1	247.5	251.4	251.4
57.5°	454.9	396.6	331.8	272.2	226.8	206.1	194.4	187.9	186.6	189.2	186.6
60°	373.3	324.0	268.3	213.9	178.9	156.8	147.8	145.2	142.5	145.2	145.2
62.5°	295.5	254.0	208.6	167.2	137.4	121.8	111.4	111.4	110.2	110.2	111.4
65°	219.0	186.6	154.2	119.2	95.9	84.2	76.4	76.4	75.2	76.4	75.2
67.5°	159.4	137.4	111.4	86.8	68.7	62.2	57.0	53.1	55.7	53.1	51.9
70°	116.7	98.5	80.3	66.1	53.1	46.7	42.8	41.4	38.9	38.9	38.9
72.5°	77.8	66.1	54.4	42.8	35.0	28.5	27.2	24.6	22.0	23.3	25.9
75°	51.9	44.1	38.9	31.1	23.3	23.3	15.6	15.6	13.0	15.6	11.7
77.5°	36.3	29.8	23.3	19.4	15.6	14.2	10.3	10.3	9.1	9.1	9.1
80°	25.9	22.0	16.9	14.2	10.3	10.3	9.1	7.8	6.5	6.5	7.8
82.5°	15.6	11.7	11.7	10.3	6.5	5.2	3.9	5.2	2.6	2.6	2.6
85°	9.1	7.8	6.5	3.9	2.6	2.6	1.3	0.0	1.3	1.3	0.0
87.5°	5.2	2.6	2.6	1.3	0.0	1.3	1.3	0.0	0.0	0.0	2.6
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: P248866

CATALOG NUMBER: LD8B60D010 ER8B60827 8LBSW0B

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3
2.5°	2669.9	2668.5	2671.1	2671.1	2678.9	2677.6	2681.5	2681.5	2678.9	2680.2	2685.4
5°	2678.9	2682.8	2690.6	2697.1	2708.7	2713.9	2720.4	2726.9	2728.2	2732.1	2736.0
7.5°	2678.9	2691.9	2701.0	2712.6	2728.2	2737.2	2751.5	2763.2	2768.3	2774.8	2782.6
10°	2673.7	2686.7	2703.5	2716.5	2736.0	2750.2	2764.5	2782.6	2790.4	2800.7	2811.1
12.5°	2663.4	2677.6	2695.7	2712.6	2734.6	2747.6	2765.7	2782.6	2794.3	2808.5	2820.2
15°	2647.8	2664.6	2681.5	2698.4	2721.7	2737.2	2754.1	2773.5	2785.2	2800.7	2811.1
17.5°	2623.2	2641.3	2656.9	2672.4	2694.5	2712.6	2728.2	2746.3	2758.0	2771.0	2785.2
20°	2593.4	2610.2	2627.1	2640.0	2662.1	2677.6	2694.5	2711.3	2720.4	2723.0	2745.0
22.5°	2555.8	2567.4	2580.4	2601.2	2614.1	2628.4	2643.9	2659.5	2668.5	2682.8	2690.6
25°	2493.6	2505.2	2519.5	2528.6	2544.1	2555.8	2571.3	2588.2	2593.4	2603.8	2611.5
27.5°	2406.8	2413.2	2419.7	2427.5	2436.5	2443.0	2452.1	2459.9	2465.1	2470.2	2475.4
30°	2269.3	2269.3	2269.3	2264.2	2268.1	2272.0	2273.2	2272.0	2272.0	2270.7	2270.7
32.5°	2087.9	2077.6	2065.9	2055.5	2051.6	2046.5	2043.9	2040.0	2033.5	2029.6	2030.9
35°	1842.9	1819.6	1805.4	1792.4	1782.1	1774.3	1770.4	1766.5	1765.2	1760.0	1754.8
37.5°	1537.1	1520.3	1509.9	1502.1	1493.1	1485.3	1486.5	1487.9	1491.7	1489.2	1490.4
40°	1213.1	1209.2	1213.1	1204.0	1201.4	1204.0	1210.5	1219.6	1224.8	1229.9	1239.0
42.5°	922.8	929.2	938.4	938.4	942.2	947.4	955.2	969.5	977.2	986.3	996.7
45°	694.7	702.5	714.1	718.0	720.6	727.1	736.2	747.8	753.0	760.8	769.8
47.5°	535.3	540.4	546.9	553.4	559.9	562.5	571.6	571.6	578.1	583.2	585.8
50°	417.3	422.5	427.7	431.6	434.2	438.1	440.6	444.5	445.8	448.4	449.7
52.5°	326.6	333.1	333.1	335.7	339.5	343.4	342.2	343.4	344.7	344.7	348.6
55°	255.3	255.3	259.2	259.2	261.8	260.5	261.8	261.8	261.8	261.8	263.1
57.5°	190.5	191.8	195.7	193.1	191.8	194.4	191.8	194.4	193.1	195.7	191.8
60°	146.4	146.4	147.8	147.8	149.0	149.0	149.0	147.8	147.8	146.4	146.4
62.5°	110.2	111.4	112.8	111.4	111.4	111.4	110.2	110.2	108.9	107.5	107.5
65°	73.9	72.6	75.2	72.6	73.9	73.9	72.6	73.9	70.0	71.3	70.0
67.5°	53.1	51.9	50.6	51.9	50.6	49.2	49.2	50.6	51.9	48.0	48.0
70°	35.0	36.3	35.0	36.3	37.6	37.6	36.3	35.0	36.3	33.7	35.0
72.5°	22.0	22.0	22.0	22.0	22.0	23.3	23.3	23.3	20.8	20.8	19.4
75°	10.3	14.2	11.7	10.3	14.2	14.2	13.0	13.0	11.7	11.7	11.7
77.5°	10.3	7.8	7.8	7.8	7.8	7.8	7.8	7.8	6.5	7.8	6.5
80°	5.2	5.2	5.2	3.9	5.2	5.2	6.5	5.2	5.2	3.9	6.5
82.5°	2.6	2.6	2.6	0.0	1.3	2.6	2.6	1.3	2.6	2.6	1.3
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: P248866

CATALOG NUMBER: LD8B60D010 ER8B60827 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3
2.5°	2684.1	2682.8	2684.1	2685.4	2684.1	2682.8	2684.1	2685.4	2680.2	2678.9	2681.5
5°	2741.1	2741.1	2743.7	2745.0	2743.7	2741.1	2741.1	2736.0	2732.1	2728.2	2726.9
7.5°	2790.4	2793.0	2795.6	2796.8	2795.6	2793.0	2790.4	2782.6	2774.8	2768.3	2763.2
10°	2820.2	2824.1	2829.3	2831.8	2829.3	2824.1	2820.2	2811.1	2800.7	2790.4	2782.6
12.5°	2833.2	2837.1	2843.5	2842.2	2843.5	2837.1	2833.2	2820.2	2808.5	2794.3	2782.6
15°	2824.1	2829.3	2835.7	2838.3	2835.7	2829.3	2824.1	2811.1	2800.7	2785.2	2773.5
17.5°	2795.6	2803.3	2807.2	2811.1	2807.2	2803.3	2795.6	2785.2	2771.0	2758.0	2746.3
20°	2756.7	2761.9	2767.1	2768.3	2767.1	2761.9	2756.7	2745.0	2723.0	2720.4	2711.3
22.5°	2701.0	2704.9	2716.5	2712.6	2716.5	2704.9	2701.0	2690.6	2682.8	2668.5	2659.5
25°	2620.6	2624.5	2625.8	2627.1	2625.8	2624.5	2620.6	2611.5	2603.8	2593.4	2588.2
27.5°	2481.9	2481.9	2484.5	2485.8	2484.5	2481.9	2481.9	2475.4	2470.2	2465.1	2459.9
30°	2272.0	2272.0	2272.0	2278.5	2272.0	2272.0	2272.0	2270.7	2270.7	2272.0	2272.0
32.5°	2029.6	2027.0	2024.4	2027.0	2024.4	2027.0	2029.6	2030.9	2029.6	2033.5	2040.0
35°	1754.8	1753.5	1757.4	1752.3	1757.4	1753.5	1754.8	1754.8	1760.0	1765.2	1766.5
37.5°	1491.7	1489.2	1494.3	1489.2	1494.3	1489.2	1491.7	1490.4	1489.2	1491.7	1487.9
40°	1241.6	1244.2	1244.2	1254.6	1244.2	1244.2	1241.6	1239.0	1229.9	1224.8	1219.6
42.5°	1001.8	1009.6	1007.0	1014.8	1007.0	1009.6	1001.8	996.7	986.3	977.2	969.5
45°	775.0	780.2	780.2	782.8	780.2	780.2	775.0	769.8	760.8	753.0	747.8
47.5°	594.9	594.9	594.9	596.2	594.9	594.9	594.9	585.8	583.2	578.1	571.6
50°	452.3	453.6	454.9	456.2	454.9	453.6	452.3	449.7	448.4	445.8	444.5
52.5°	347.3	348.6	346.1	348.6	346.1	348.6	347.3	348.6	344.7	344.7	343.4
55°	263.1	261.8	263.1	264.4	263.1	261.8	263.1	263.1	261.8	261.8	261.8
57.5°	193.1	190.5	190.5	190.5	190.5	190.5	193.1	191.8	195.7	193.1	194.4
60°	143.9	145.2	145.2	146.4	145.2	145.2	143.9	146.4	146.4	147.8	147.8
62.5°	106.3	110.2	107.5	110.2	107.5	110.2	106.3	107.5	107.5	108.9	110.2
65°	68.7	68.7	68.7	70.0	68.7	68.7	68.7	70.0	71.3	70.0	73.9
67.5°	46.7	48.0	50.6	49.2	50.6	48.0	46.7	48.0	48.0	51.9	50.6
70°	37.6	33.7	33.7	37.6	33.7	33.7	37.6	35.0	33.7	36.3	35.0
72.5°	22.0	19.4	22.0	22.0	22.0	19.4	22.0	19.4	20.8	20.8	23.3
75°	11.7	10.3	9.1	13.0	9.1	10.3	11.7	11.7	11.7	11.7	13.0
77.5°	7.8	6.5	9.1	9.1	9.1	6.5	7.8	6.5	7.8	6.5	7.8
80°	3.9	5.2	3.9	6.5	3.9	5.2	3.9	6.5	3.9	5.2	5.2
82.5°	1.3	2.6	2.6	2.6	2.6	2.6	1.3	1.3	2.6	2.6	1.3
85°	0.0	2.6	1.3	1.3	1.3	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.0	0.0	1.3	0.0	0.0	1.3	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: P248866

CATALOG NUMBER: LD8B60D010 ER8B60827 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3
2.5°	2681.5	2677.6	2678.9	2671.1	2671.1	2668.5	2669.9	2663.4	2660.8	2658.2	2662.1
5°	2720.4	2713.9	2708.7	2697.1	2690.6	2682.8	2678.9	2668.5	2659.5	2651.7	2650.4
7.5°	2751.5	2737.2	2728.2	2712.6	2701.0	2691.9	2678.9	2664.6	2653.0	2642.6	2634.9
10°	2764.5	2750.2	2736.0	2716.5	2703.5	2686.7	2673.7	2655.6	2640.0	2625.8	2616.7
12.5°	2765.7	2747.6	2734.6	2712.6	2695.7	2677.6	2663.4	2642.6	2624.5	2610.2	2596.0
15°	2754.1	2737.2	2721.7	2698.4	2681.5	2664.6	2647.8	2625.8	2608.9	2592.1	2581.7
17.5°	2728.2	2712.6	2694.5	2672.4	2656.9	2641.3	2623.2	2605.1	2585.6	2567.4	2554.5
20°	2694.5	2677.6	2662.1	2640.0	2627.1	2610.2	2593.4	2574.0	2558.4	2540.2	2526.0
22.5°	2643.9	2628.4	2614.1	2601.2	2580.4	2567.4	2555.8	2533.8	2518.2	2501.3	2485.8
25°	2571.3	2555.8	2544.1	2528.6	2519.5	2505.2	2493.6	2474.1	2459.9	2444.3	2431.4
27.5°	2452.1	2443.0	2436.5	2427.5	2419.7	2413.2	2406.8	2391.2	2380.8	2366.6	2353.6
30°	2273.2	2272.0	2268.1	2264.2	2269.3	2269.3	2269.3	2266.8	2257.7	2247.3	2238.2
32.5°	2043.9	2046.5	2051.6	2055.5	2065.9	2077.6	2087.9	2093.1	2093.1	2086.6	2082.7
35°	1770.4	1774.3	1782.1	1792.4	1805.4	1819.6	1842.9	1848.2	1852.0	1852.0	1846.8
37.5°	1486.5	1485.3	1493.1	1502.1	1509.9	1520.3	1537.1	1541.0	1547.5	1544.9	1539.7
40°	1210.5	1204.0	1201.4	1204.0	1213.1	1209.2	1213.1	1210.5	1210.5	1201.4	1201.4
42.5°	955.2	947.4	942.2	938.4	938.4	929.2	922.8	916.3	912.4	905.9	904.6
45°	736.2	727.1	720.6	718.0	714.1	702.5	694.7	686.9	677.8	675.3	676.5
47.5°	571.6	562.5	559.9	553.4	546.9	540.4	535.3	526.2	524.9	519.7	524.9
50°	440.6	438.1	434.2	431.6	427.7	422.5	417.3	412.2	409.5	409.5	410.8
52.5°	342.2	343.4	339.5	335.7	333.1	333.1	326.6	325.3	325.3	320.1	325.3
55°	261.8	260.5	261.8	259.2	259.2	255.3	255.3	251.4	251.4	247.5	250.1
57.5°	191.8	194.4	191.8	193.1	195.7	191.8	190.5	186.6	189.2	186.6	187.9
60°	149.0	149.0	149.0	147.8	147.8	146.4	146.4	145.2	145.2	142.5	145.2
62.5°	110.2	111.4	111.4	111.4	112.8	111.4	110.2	111.4	110.2	110.2	111.4
65°	72.6	73.9	73.9	72.6	75.2	72.6	73.9	75.2	76.4	75.2	76.4
67.5°	49.2	49.2	50.6	51.9	50.6	51.9	53.1	51.9	53.1	55.7	53.1
70°	36.3	37.6	37.6	36.3	35.0	36.3	35.0	38.9	38.9	38.9	41.4
72.5°	23.3	23.3	22.0	22.0	22.0	22.0	22.0	25.9	23.3	22.0	24.6
75°	13.0	14.2	14.2	10.3	11.7	14.2	10.3	11.7	15.6	13.0	15.6
77.5°	7.8	7.8	7.8	7.8	7.8	7.8	10.3	9.1	9.1	9.1	10.3
80°	6.5	5.2	5.2	3.9	5.2	5.2	5.2	7.8	6.5	6.5	7.8
82.5°	2.6	2.6	1.3	0.0	2.6	2.6	2.6	2.6	2.6	2.6	5.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	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: P248866

CATALOG NUMBER: LD8B60D010 ER8B60827 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3
2.5°	2651.7	2651.7	2650.4	2647.8	2642.6	2642.6	2641.3	2637.4	2634.9	2633.5	2633.5
5°	2638.7	2633.5	2628.4	2614.1	2614.1	2611.5	2603.8	2598.5	2596.0	2589.5	2586.9
7.5°	2627.1	2611.5	2602.4	2593.4	2581.7	2576.5	2567.4	2563.5	2554.5	2548.0	2544.1
10°	2598.5	2588.2	2576.5	2562.3	2553.2	2542.9	2532.4	2524.7	2513.0	2506.5	2501.3
12.5°	2579.1	2563.5	2553.2	2537.6	2522.1	2513.0	2498.8	2489.7	2478.0	2465.1	2457.3
15°	2561.0	2544.1	2529.9	2513.0	2496.2	2485.8	2469.0	2458.6	2441.8	2428.8	2419.7
17.5°	2533.8	2519.5	2504.0	2483.2	2467.7	2454.7	2436.5	2423.6	2408.0	2391.2	2382.1
20°	2505.2	2488.4	2472.9	2452.1	2436.5	2421.0	2402.9	2388.6	2370.4	2354.9	2344.6
22.5°	2467.7	2448.2	2435.3	2414.5	2396.4	2379.6	2362.7	2345.8	2329.0	2316.0	2304.3
25°	2413.2	2392.5	2378.2	2361.4	2344.6	2331.6	2310.8	2300.5	2283.6	2272.0	2260.3
27.5°	2335.4	2319.9	2307.0	2290.1	2275.9	2265.5	2249.9	2239.6	2225.3	2214.9	2205.9
30°	2221.4	2208.5	2196.8	2179.9	2169.6	2160.5	2146.2	2137.2	2126.8	2115.1	2112.6
32.5°	2068.5	2058.1	2046.5	2034.8	2027.0	2021.8	2010.1	2005.0	1994.6	1988.1	1981.6
35°	1837.8	1828.7	1822.3	1817.1	1814.5	1815.7	1813.2	1818.4	1820.9	1819.6	1820.9
37.5°	1535.8	1530.6	1533.2	1537.1	1550.1	1566.9	1582.5	1605.8	1621.3	1636.9	1651.2
40°	1198.8	1202.7	1213.1	1236.4	1270.1	1307.7	1342.7	1386.8	1430.9	1462.0	1490.4
42.5°	904.6	916.3	942.2	975.9	1026.5	1082.2	1136.6	1201.4	1254.6	1306.4	1342.7
45°	680.4	696.0	729.7	776.3	832.0	896.9	965.6	1038.1	1101.7	1154.8	1195.0
47.5°	530.1	544.3	578.1	627.3	696.0	763.4	834.7	909.8	975.9	1027.8	1062.8
50°	418.6	436.7	466.6	518.4	587.1	658.4	732.3	806.1	868.4	912.4	943.5
52.5°	329.2	346.1	374.5	429.0	499.0	570.3	638.9	711.5	765.9	808.7	829.5
55°	255.3	270.9	300.7	346.1	412.2	482.1	550.8	613.1	663.6	694.7	714.1
57.5°	194.4	206.1	226.8	272.2	331.8	396.6	454.9	517.1	556.0	578.1	591.0
60°	147.8	156.8	178.9	213.9	268.3	324.0	373.3	419.9	451.0	469.2	482.1
62.5°	111.4	121.8	137.4	167.2	208.6	254.0	295.5	330.5	356.4	368.1	377.2
65°	76.4	84.2	95.9	119.2	154.2	186.6	219.0	245.0	261.8	274.8	280.0
67.5°	57.0	62.2	68.7	86.8	111.4	137.4	159.4	177.5	195.7	200.9	210.0
70°	42.8	46.7	53.1	66.1	80.3	98.5	116.7	127.0	140.0	149.0	151.7
72.5°	27.2	28.5	35.0	42.8	54.4	66.1	77.8	86.8	94.6	99.8	102.4
75°	15.6	23.3	23.3	31.1	38.9	44.1	51.9	58.3	62.2	66.1	66.1
77.5°	10.3	14.2	15.6	19.4	23.3	29.8	36.3	40.2	44.1	45.3	45.3
80°	9.1	10.3	10.3	14.2	16.9	22.0	25.9	27.2	29.8	31.1	33.7
82.5°	3.9	5.2	6.5	10.3	11.7	11.7	15.6	16.9	19.4	20.8	20.8
85°	1.3	2.6	2.6	3.9	6.5	7.8	9.1	10.3	11.7	11.7	13.0
87.5°	1.3	1.3	0.0	1.3	2.6	2.6	5.2	5.2	5.2	7.8	7.8
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: P248866

CATALOG NUMBER: LD8B60D010 ER8B60827 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3	2654.3
2.5°	2631.0	2632.3	2627.1	2625.8	2623.2	2624.5	2627.1
5°	2583.0	2584.3	2579.1	2574.0	2574.0	2572.6	2574.0
7.5°	2537.6	2539.0	2531.2	2528.6	2523.4	2524.7	2524.7
10°	2492.3	2492.3	2480.6	2479.3	2475.4	2474.1	2474.1
12.5°	2448.2	2444.3	2435.3	2430.1	2432.7	2424.9	2424.9
15°	2409.3	2402.9	2391.2	2387.3	2380.8	2378.2	2378.2
17.5°	2369.2	2364.0	2353.6	2345.8	2338.1	2336.8	2338.1
20°	2330.3	2325.1	2312.1	2307.0	2300.5	2300.5	2297.9
22.5°	2291.4	2286.2	2274.6	2270.7	2261.6	2261.6	2262.9
25°	2251.2	2247.3	2234.4	2231.8	2230.5	2225.3	2227.9
27.5°	2196.8	2194.2	2183.8	2179.9	2174.8	2173.5	2176.0
30°	2097.0	2093.1	2085.4	2081.5	2072.4	2073.7	2076.2
32.5°	1972.6	1967.4	1957.0	1953.1	1945.4	1942.8	1944.0
35°	1817.1	1813.2	1804.1	1804.1	1796.3	1793.7	1796.3
37.5°	1659.0	1662.8	1659.0	1662.8	1659.0	1657.6	1659.0
40°	1509.9	1524.2	1526.7	1541.0	1535.8	1543.6	1542.3
42.5°	1367.3	1390.6	1399.7	1411.4	1408.8	1414.0	1417.9
45°	1223.4	1242.9	1252.0	1259.8	1261.0	1263.7	1264.9
47.5°	1087.4	1102.9	1104.2	1113.3	1112.0	1112.0	1115.9
50°	960.4	970.7	973.3	979.8	974.6	972.0	973.3
52.5°	842.4	852.8	850.2	852.8	846.3	843.7	845.0
55°	721.9	727.1	727.1	727.1	719.3	719.3	719.3
57.5°	598.8	600.1	597.5	598.8	597.5	589.7	588.4
60°	486.0	486.0	484.7	486.0	482.1	478.2	478.2
62.5°	379.7	382.3	387.5	382.3	379.7	382.3	378.4
65°	283.9	289.0	287.7	290.3	289.0	289.0	286.4
67.5°	213.9	215.1	216.4	217.8	217.8	217.8	217.8
70°	156.8	160.7	159.4	159.4	159.4	159.4	167.2
72.5°	105.0	110.2	108.9	111.4	111.4	114.1	111.4
75°	71.3	76.4	73.9	77.8	76.4	73.9	80.3
77.5°	48.0	50.6	51.9	53.1	51.9	50.6	51.9
80°	33.7	36.3	35.0	36.3	36.3	36.3	37.6
82.5°	20.8	24.6	23.3	24.6	23.3	24.6	24.6
85°	14.2	15.6	13.0	15.6	14.2	14.2	16.9
87.5°	9.1	7.8	7.8	9.1	7.8	9.1	7.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)