

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: P248947

Luminaire Tested: **LD8B60D010 ER8B60950 8LBSW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248947  
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 ER8B60950 8LBSW0B  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4395.0 lumens  
Efficiency: N/A  
Efficacy: 73.9 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

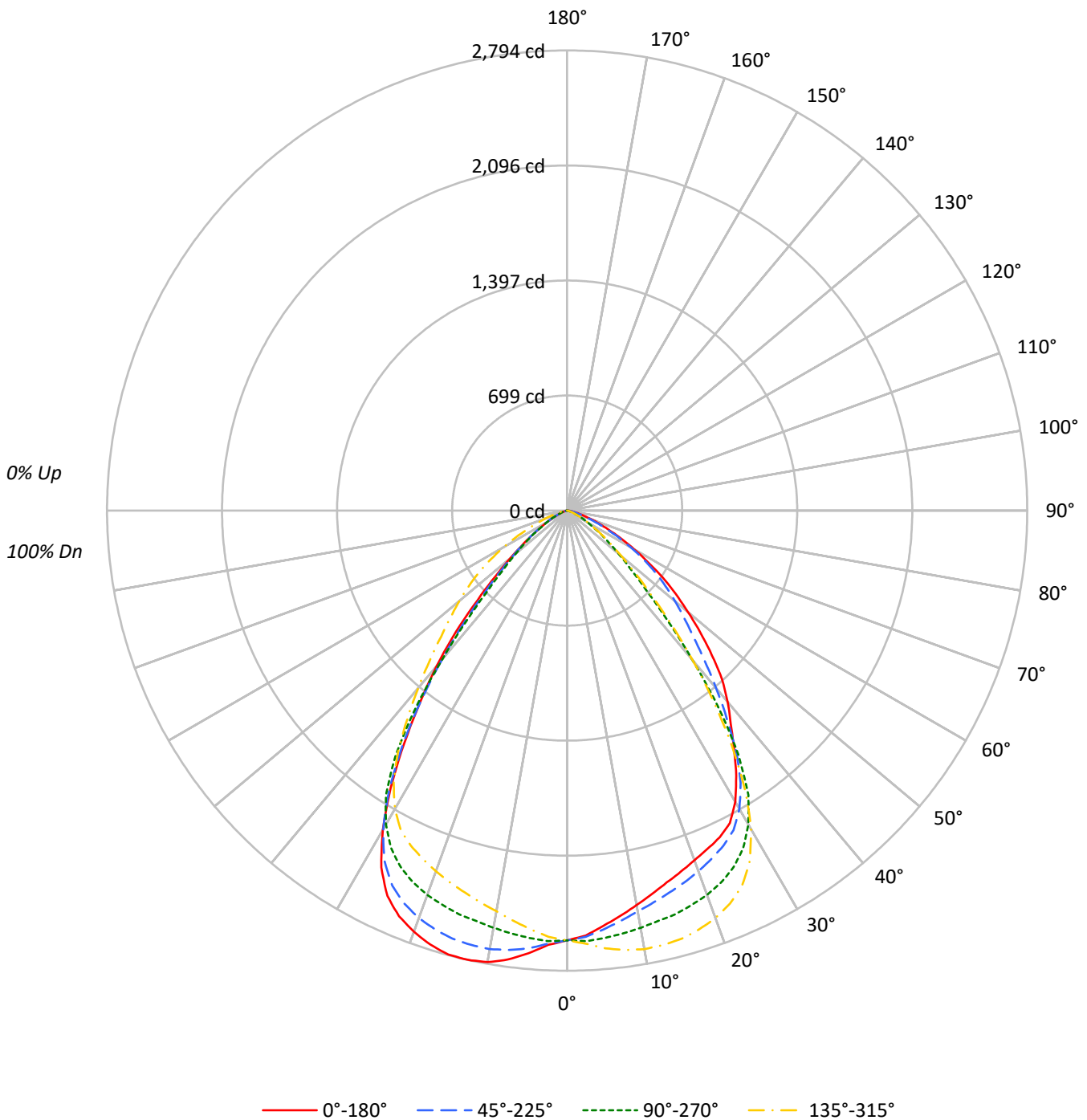
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					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°	80458	80458	80458	80458
5°	78320	80645	83527	80645
10°	76154	80541	87163	80541
15°	74632	81020	89071	81020
20°	74123	81484	89300	81484
25°	74513	81318	87864	81318
30°	72670	78342	79748	78342
35°	66472	68343	64842	68343
40°	61029	47540	49645	47540
45°	54224	29000	33557	29000
50°	45900	19371	21516	19371
55°	38015	13220	13973	13220
60°	28992	8801	8875	8801
65°	20540	5480	5020	5480
70°	14813	3669	3336	3669
75°	9412	1823	1513	1823
80°	6570	1367	1119	1367
85°	5873	0	460	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.3	5.7
10°-20°	719.2	16.4
20°-30°	1089.0	24.8
30°-40°	1091.4	24.8
40°-50°	685.3	15.6
50°-60°	365.2	8.3
60°-70°	150.2	3.4
70°-80°	39.7	0.9
80°-90°	6.7	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°	2056.5	46.8
0°-40°	3147.9	71.6
0°-60°	4198.4	95.5
0°-90°	4395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4395.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2609	2609	2609	2609	2609	
5°	2530	2605	2698	2605	2530	239
15°	2338	2538	2790	2538	2338	661
25°	2190	2390	2582	2390	2190	1004
35°	1766	1816	1722	1816	1766	1106
45°	1243	665	770	665	1243	956
55°	707	246	260	246	707	630
65°	282	75	69	75	282	292
75°	79	15	13	15	79	89
85°	17	0	1	0	17	18
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°	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2
2.5°	2582.4	2579.9	2578.6	2581.2	2582.4	2587.5	2586.3	2588.8	2588.8	2590.1	2592.6
5°	2530.2	2528.9	2530.2	2530.2	2535.3	2540.4	2539.1	2542.9	2545.5	2551.9	2554.4
7.5°	2481.8	2481.8	2480.5	2485.6	2488.1	2495.8	2494.5	2500.9	2504.7	2511.1	2520.0
10°	2432.1	2432.1	2433.3	2437.2	2438.5	2449.9	2449.9	2458.8	2463.9	2470.3	2481.8
12.5°	2383.7	2383.7	2391.3	2388.8	2393.9	2402.8	2406.6	2415.5	2423.2	2435.9	2447.4
15°	2337.8	2337.8	2340.4	2346.7	2350.5	2362.0	2368.4	2378.6	2387.5	2400.3	2416.8
17.5°	2298.3	2297.1	2298.3	2306.0	2313.6	2323.8	2328.9	2341.6	2350.5	2367.1	2382.4
20°	2258.8	2261.4	2261.4	2267.7	2272.8	2285.6	2290.7	2304.7	2314.9	2330.1	2348.0
22.5°	2224.4	2223.2	2223.2	2232.1	2235.9	2247.3	2252.4	2265.2	2276.7	2289.4	2306.0
25°	2190.0	2187.5	2192.6	2193.9	2196.4	2209.1	2212.9	2221.9	2233.3	2244.8	2261.4
27.5°	2139.1	2136.5	2137.8	2142.9	2146.7	2156.9	2159.5	2168.4	2177.3	2187.5	2201.5
30°	2040.9	2038.4	2037.2	2046.1	2049.9	2057.5	2061.3	2076.7	2079.2	2090.7	2100.8
32.5°	1911.0	1909.7	1912.3	1919.9	1923.7	1934.0	1939.0	1948.0	1954.3	1960.7	1970.9
35°	1765.8	1763.2	1765.8	1773.4	1773.4	1782.4	1786.2	1790.0	1788.7	1790.0	1787.4
37.5°	1630.8	1629.4	1630.8	1634.5	1630.8	1634.5	1630.8	1623.1	1609.1	1593.8	1578.5
40°	1516.1	1517.3	1509.7	1514.8	1500.8	1498.2	1484.2	1465.1	1437.1	1406.5	1363.2
42.5°	1393.8	1390.0	1384.9	1387.4	1376.0	1367.0	1344.1	1319.9	1284.2	1233.3	1181.0
45°	1243.4	1242.2	1239.6	1238.4	1230.7	1221.8	1202.6	1174.6	1135.2	1082.9	1020.5
47.5°	1096.9	1093.1	1093.1	1094.4	1085.4	1084.2	1068.9	1044.7	1010.3	959.3	894.4
50°	956.8	955.5	958.1	963.2	956.8	954.2	944.1	927.5	896.9	853.6	792.4
52.5°	830.6	829.4	832.0	838.3	835.7	838.3	828.1	815.4	795.0	752.9	699.4
55°	707.1	707.1	707.1	714.7	714.7	714.7	709.6	702.0	682.9	652.3	602.6
57.5°	578.4	579.7	587.3	588.6	587.3	589.9	588.6	580.9	568.2	546.6	508.3
60°	470.1	470.1	473.9	477.8	476.5	477.8	477.8	473.9	461.2	443.4	412.8
62.5°	372.0	375.8	373.3	375.8	380.9	375.8	373.3	370.7	361.8	350.3	324.9
65°	281.5	284.1	284.1	285.4	282.8	284.1	279.0	275.2	270.1	257.4	240.8
67.5°	214.1	214.1	214.1	214.1	212.7	211.5	210.2	206.4	197.5	192.4	174.5
70°	164.3	156.7	156.7	156.7	156.7	158.0	154.2	149.1	146.5	137.6	124.9
72.5°	109.5	112.1	109.5	109.5	107.0	108.3	103.2	100.6	98.1	93.0	85.4
75°	79.0	72.6	75.1	76.5	72.6	75.1	70.1	65.0	65.0	61.1	57.3
77.5°	51.0	49.7	51.0	52.2	51.0	49.7	47.1	44.6	44.6	43.3	39.5
80°	37.0	35.7	35.7	35.7	34.4	35.7	33.1	33.1	30.6	29.3	26.7
82.5°	24.2	24.2	22.9	24.2	22.9	24.2	20.4	20.4	20.4	19.1	16.6
85°	16.6	14.0	14.0	15.3	12.7	15.3	14.0	12.7	11.5	11.5	10.2
87.5°	7.7	8.9	7.7	8.9	7.7	7.7	8.9	7.7	7.7	5.1	5.1
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°	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2
2.5°	2596.4	2597.7	2597.7	2602.8	2605.3	2606.6	2606.6	2616.8	2613.0	2615.6	2618.1
5°	2559.5	2567.1	2569.7	2569.7	2583.7	2588.8	2593.9	2605.3	2606.6	2614.3	2623.2
7.5°	2523.8	2532.7	2537.9	2549.3	2558.2	2567.1	2582.4	2590.1	2597.7	2607.9	2619.3
10°	2489.4	2499.6	2509.8	2518.7	2532.7	2544.2	2554.4	2572.2	2581.2	2595.2	2610.4
12.5°	2456.3	2470.3	2479.2	2494.5	2509.8	2520.0	2535.3	2551.9	2565.9	2579.9	2597.7
15°	2427.0	2443.6	2453.7	2470.3	2486.9	2500.9	2517.5	2537.9	2548.0	2564.6	2581.2
17.5°	2395.1	2413.0	2425.7	2441.0	2461.4	2476.7	2490.7	2511.1	2523.8	2541.6	2560.8
20°	2362.0	2379.9	2395.1	2410.4	2430.8	2446.1	2462.7	2483.1	2497.1	2514.9	2530.2
22.5°	2322.5	2339.1	2355.6	2373.5	2393.9	2406.6	2425.7	2443.6	2458.8	2475.4	2490.7
25°	2271.6	2292.0	2304.7	2321.2	2337.8	2351.8	2372.2	2390.0	2402.8	2418.1	2432.1
27.5°	2211.7	2227.0	2237.2	2251.2	2267.7	2280.5	2295.7	2313.6	2326.4	2340.4	2350.5
30°	2109.7	2123.8	2132.7	2142.9	2159.5	2170.9	2183.7	2200.2	2209.1	2219.3	2228.3
32.5°	1976.0	1987.5	1992.5	2000.2	2011.7	2023.1	2033.3	2047.3	2051.2	2057.5	2057.5
35°	1782.4	1784.9	1783.6	1786.2	1791.3	1797.6	1806.5	1815.5	1820.5	1820.5	1816.8
37.5°	1555.6	1540.3	1523.7	1511.0	1507.2	1504.6	1509.7	1513.5	1518.6	1521.2	1514.8
40°	1319.9	1285.5	1248.5	1215.4	1192.5	1182.3	1178.5	1181.0	1181.0	1189.9	1189.9
42.5°	1117.3	1063.8	1009.0	959.3	926.2	900.8	889.3	889.3	890.5	896.9	900.8
45°	949.2	881.6	817.9	763.1	717.3	684.1	668.9	665.0	663.8	666.3	675.2
47.5°	820.5	750.4	684.1	616.6	568.2	535.1	521.1	516.0	510.9	516.0	517.3
50°	719.8	647.2	577.1	509.6	458.6	429.3	411.5	403.8	402.6	402.6	405.1
52.5°	628.1	560.6	490.5	421.7	368.2	340.2	323.6	319.8	314.7	319.8	319.8
55°	541.4	473.9	405.1	340.2	295.5	266.3	251.0	245.9	243.3	247.1	247.1
57.5°	447.2	389.8	326.2	267.5	223.0	202.6	191.1	184.7	183.4	186.0	183.4
60°	366.9	318.5	263.7	210.2	175.8	154.2	145.3	142.7	140.1	142.7	142.7
62.5°	290.5	249.7	205.1	164.3	135.0	119.8	109.5	109.5	108.3	108.3	109.5
65°	215.3	183.4	151.6	117.2	94.3	82.8	75.1	75.1	73.9	75.1	73.9
67.5°	156.7	135.0	109.5	85.4	67.5	61.1	56.1	52.2	54.8	52.2	51.0
70°	114.7	96.8	79.0	65.0	52.2	45.9	42.1	40.7	38.2	38.2	38.2
72.5°	76.5	65.0	53.5	42.1	34.4	28.0	26.7	24.2	21.7	22.9	25.5
75°	51.0	43.3	38.2	30.6	22.9	22.9	15.3	15.3	12.7	15.3	11.5
77.5°	35.7	29.3	22.9	19.1	15.3	14.0	10.2	10.2	8.9	8.9	8.9
80°	25.5	21.7	16.6	14.0	10.2	10.2	8.9	7.7	6.3	6.3	7.7
82.5°	15.3	11.5	11.5	10.2	6.3	5.1	3.8	5.1	2.6	2.6	2.6
85°	8.9	7.7	6.3	3.8	2.6	2.6	1.3	0.0	1.3	1.3	0.0
87.5°	5.1	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



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2
2.5°	2624.5	2623.2	2625.7	2625.7	2633.4	2632.1	2635.9	2635.9	2633.4	2634.7	2639.7
5°	2633.4	2637.2	2644.8	2651.2	2662.7	2667.8	2674.1	2680.5	2681.8	2685.6	2689.5
7.5°	2633.4	2646.1	2655.1	2666.5	2681.8	2690.7	2704.7	2716.2	2721.3	2727.6	2735.3
10°	2628.3	2641.0	2657.6	2670.3	2689.5	2703.5	2717.5	2735.3	2742.9	2753.1	2763.3
12.5°	2618.1	2632.1	2649.9	2666.5	2688.1	2700.9	2718.7	2735.3	2746.8	2760.8	2772.3
15°	2602.8	2619.3	2635.9	2652.5	2675.4	2690.7	2707.3	2726.4	2737.9	2753.1	2763.3
17.5°	2578.6	2596.4	2611.7	2627.0	2648.7	2666.5	2681.8	2699.6	2711.1	2723.9	2737.9
20°	2549.3	2565.9	2582.4	2595.2	2616.8	2632.1	2648.7	2665.2	2674.1	2676.7	2698.4
22.5°	2512.4	2523.8	2536.5	2556.9	2569.7	2583.7	2599.0	2614.3	2623.2	2637.2	2644.8
25°	2451.2	2462.7	2476.7	2485.6	2500.9	2512.4	2527.6	2544.2	2549.3	2559.5	2567.1
27.5°	2365.9	2372.2	2378.6	2386.2	2395.1	2401.5	2410.4	2418.1	2423.2	2428.3	2433.3
30°	2230.8	2230.8	2230.8	2225.7	2229.5	2233.3	2234.6	2233.3	2233.3	2232.1	2232.1
32.5°	2052.4	2042.3	2030.8	2020.6	2016.8	2011.7	2009.1	2005.3	1998.9	1995.1	1996.4
35°	1811.6	1788.7	1774.7	1762.0	1751.8	1744.1	1740.3	1736.5	1735.2	1730.1	1725.0
37.5°	1511.0	1494.4	1484.2	1476.6	1467.7	1460.0	1461.3	1462.6	1466.4	1463.8	1465.1
40°	1192.5	1188.6	1192.5	1183.6	1181.0	1183.6	1189.9	1198.9	1204.0	1209.0	1218.0
42.5°	907.1	913.4	922.4	922.4	926.2	931.3	938.9	953.0	960.6	969.5	979.7
45°	682.9	690.5	702.0	705.8	708.4	714.7	723.7	735.1	740.2	747.8	756.8
47.5°	526.2	531.3	537.6	544.0	550.4	552.9	561.8	561.8	568.2	573.3	575.8
50°	410.2	415.3	420.4	424.2	426.8	430.6	433.1	437.0	438.2	440.8	442.1
52.5°	321.0	327.4	327.4	329.9	333.8	337.6	336.3	337.6	338.9	338.9	342.7
55°	251.0	251.0	254.8	254.8	257.4	256.1	257.4	257.4	257.4	257.4	258.6
57.5°	187.3	188.6	192.4	189.8	188.6	191.1	188.6	191.1	189.8	192.4	188.6
60°	143.9	143.9	145.3	145.3	146.5	146.5	146.5	145.3	145.3	143.9	143.9
62.5°	108.3	109.5	110.9	109.5	109.5	109.5	108.3	108.3	107.0	105.7	105.7
65°	72.6	71.4	73.9	71.4	72.6	72.6	71.4	72.6	68.8	70.1	68.8
67.5°	52.2	51.0	49.7	51.0	49.7	48.4	48.4	49.7	51.0	47.1	47.1
70°	34.4	35.7	34.4	35.7	37.0	37.0	35.7	34.4	35.7	33.1	34.4
72.5°	21.7	21.7	21.7	21.7	21.7	22.9	22.9	22.9	20.4	20.4	19.1
75°	10.2	14.0	11.5	10.2	14.0	14.0	12.7	12.7	11.5	11.5	11.5
77.5°	10.2	7.7	7.7	7.7	7.7	7.7	7.7	7.7	6.3	7.7	6.3
80°	5.1	5.1	5.1	3.8	5.1	5.1	6.3	5.1	5.1	3.8	6.3
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: P248947

CATALOG NUMBER: LD8B60D010 ER8B60950 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2
2.5°	2638.5	2637.2	2638.5	2639.7	2638.5	2637.2	2638.5	2639.7	2634.7	2633.4	2635.9
5°	2694.5	2694.5	2697.1	2698.4	2697.1	2694.5	2694.5	2689.5	2685.6	2681.8	2680.5
7.5°	2742.9	2745.5	2748.0	2749.3	2748.0	2745.5	2742.9	2735.3	2727.6	2721.3	2716.2
10°	2772.3	2776.1	2781.2	2783.7	2781.2	2776.1	2772.3	2763.3	2753.1	2742.9	2735.3
12.5°	2785.0	2788.8	2795.2	2793.9	2795.2	2788.8	2785.0	2772.3	2760.8	2746.8	2735.3
15°	2776.1	2781.2	2787.5	2790.1	2787.5	2781.2	2776.1	2763.3	2753.1	2737.9	2726.4
17.5°	2748.0	2755.7	2759.5	2763.3	2759.5	2755.7	2748.0	2737.9	2723.9	2711.1	2699.6
20°	2709.8	2714.9	2720.0	2721.3	2720.0	2714.9	2709.8	2698.4	2676.7	2674.1	2665.2
22.5°	2655.1	2658.9	2670.3	2666.5	2670.3	2658.9	2655.1	2644.8	2637.2	2623.2	2614.3
25°	2576.0	2579.9	2581.2	2582.4	2581.2	2579.9	2576.0	2567.1	2559.5	2549.3	2544.2
27.5°	2439.7	2439.7	2442.3	2443.6	2442.3	2439.7	2439.7	2433.3	2428.3	2423.2	2418.1
30°	2233.3	2233.3	2233.3	2239.7	2233.3	2233.3	2233.3	2232.1	2232.1	2233.3	2233.3
32.5°	1995.1	1992.5	1990.0	1992.5	1990.0	1992.5	1995.1	1996.4	1995.1	1998.9	2005.3
35°	1725.0	1723.7	1727.6	1722.5	1727.6	1723.7	1725.0	1725.0	1730.1	1735.2	1736.5
37.5°	1466.4	1463.8	1468.9	1463.8	1468.9	1463.8	1466.4	1465.1	1463.8	1466.4	1462.6
40°	1220.5	1223.0	1223.0	1233.3	1223.0	1223.0	1220.5	1218.0	1209.0	1204.0	1198.9
42.5°	984.8	992.5	989.9	997.6	989.9	992.5	984.8	979.7	969.5	960.6	953.0
45°	761.8	767.0	767.0	769.5	767.0	767.0	761.8	756.8	747.8	740.2	735.1
47.5°	584.8	584.8	584.8	586.1	584.8	584.8	584.8	575.8	573.3	568.2	561.8
50°	444.6	445.9	447.2	448.5	447.2	445.9	444.6	442.1	440.8	438.2	437.0
52.5°	341.4	342.7	340.2	342.7	340.2	342.7	341.4	342.7	338.9	338.9	337.6
55°	258.6	257.4	258.6	259.9	258.6	257.4	258.6	258.6	257.4	257.4	257.4
57.5°	189.8	187.3	187.3	187.3	187.3	187.3	189.8	188.6	192.4	189.8	191.1
60°	141.4	142.7	142.7	143.9	142.7	142.7	141.4	143.9	143.9	145.3	145.3
62.5°	104.5	108.3	105.7	108.3	105.7	108.3	104.5	105.7	105.7	107.0	108.3
65°	67.5	67.5	67.5	68.8	67.5	67.5	67.5	68.8	70.1	68.8	72.6
67.5°	45.9	47.1	49.7	48.4	49.7	47.1	45.9	47.1	47.1	51.0	49.7
70°	37.0	33.1	33.1	37.0	33.1	33.1	37.0	34.4	33.1	35.7	34.4
72.5°	21.7	19.1	21.7	21.7	21.7	19.1	21.7	19.1	20.4	20.4	22.9
75°	11.5	10.2	8.9	12.7	8.9	10.2	11.5	11.5	11.5	11.5	12.7
77.5°	7.7	6.3	8.9	8.9	8.9	6.3	7.7	6.3	7.7	6.3	7.7
80°	3.8	5.1	3.8	6.3	3.8	5.1	3.8	6.3	3.8	5.1	5.1
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: P248947

CATALOG NUMBER: LD8B60D010 ER8B60950 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2
2.5°	2635.9	2632.1	2633.4	2625.7	2625.7	2623.2	2624.5	2618.1	2615.6	2613.0	2616.8
5°	2674.1	2667.8	2662.7	2651.2	2644.8	2637.2	2633.4	2623.2	2614.3	2606.6	2605.3
7.5°	2704.7	2690.7	2681.8	2666.5	2655.1	2646.1	2633.4	2619.3	2607.9	2597.7	2590.1
10°	2717.5	2703.5	2689.5	2670.3	2657.6	2641.0	2628.3	2610.4	2595.2	2581.2	2572.2
12.5°	2718.7	2700.9	2688.1	2666.5	2649.9	2632.1	2618.1	2597.7	2579.9	2565.9	2551.9
15°	2707.3	2690.7	2675.4	2652.5	2635.9	2619.3	2602.8	2581.2	2564.6	2548.0	2537.9
17.5°	2681.8	2666.5	2648.7	2627.0	2611.7	2596.4	2578.6	2560.8	2541.6	2523.8	2511.1
20°	2648.7	2632.1	2616.8	2595.2	2582.4	2565.9	2549.3	2530.2	2514.9	2497.1	2483.1
22.5°	2599.0	2583.7	2569.7	2556.9	2536.5	2523.8	2512.4	2490.7	2475.4	2458.8	2443.6
25°	2527.6	2512.4	2500.9	2485.6	2476.7	2462.7	2451.2	2432.1	2418.1	2402.8	2390.0
27.5°	2410.4	2401.5	2395.1	2386.2	2378.6	2372.2	2365.9	2350.5	2340.4	2326.4	2313.6
30°	2234.6	2233.3	2229.5	2225.7	2230.8	2230.8	2230.8	2228.3	2219.3	2209.1	2200.2
32.5°	2009.1	2011.7	2016.8	2020.6	2030.8	2042.3	2052.4	2057.5	2057.5	2051.2	2047.3
35°	1740.3	1744.1	1751.8	1762.0	1774.7	1788.7	1811.6	1816.8	1820.5	1820.5	1815.5
37.5°	1461.3	1460.0	1467.7	1476.6	1484.2	1494.4	1511.0	1514.8	1521.2	1518.6	1513.5
40°	1189.9	1183.6	1181.0	1183.6	1192.5	1188.6	1192.5	1189.9	1189.9	1181.0	1181.0
42.5°	938.9	931.3	926.2	922.4	922.4	913.4	907.1	900.8	896.9	890.5	889.3
45°	723.7	714.7	708.4	705.8	702.0	690.5	682.9	675.2	666.3	663.8	665.0
47.5°	561.8	552.9	550.4	544.0	537.6	531.3	526.2	517.3	516.0	510.9	516.0
50°	433.1	430.6	426.8	424.2	420.4	415.3	410.2	405.1	402.6	402.6	403.8
52.5°	336.3	337.6	333.8	329.9	327.4	327.4	321.0	319.8	319.8	314.7	319.8
55°	257.4	256.1	257.4	254.8	254.8	251.0	251.0	247.1	247.1	243.3	245.9
57.5°	188.6	191.1	188.6	189.8	192.4	188.6	187.3	183.4	186.0	183.4	184.7
60°	146.5	146.5	146.5	145.3	145.3	143.9	143.9	142.7	142.7	140.1	142.7
62.5°	108.3	109.5	109.5	109.5	110.9	109.5	108.3	109.5	108.3	108.3	109.5
65°	71.4	72.6	72.6	71.4	73.9	71.4	72.6	73.9	75.1	73.9	75.1
67.5°	48.4	48.4	49.7	51.0	49.7	51.0	52.2	51.0	52.2	54.8	52.2
70°	35.7	37.0	37.0	35.7	34.4	35.7	34.4	38.2	38.2	38.2	40.7
72.5°	22.9	22.9	21.7	21.7	21.7	21.7	21.7	25.5	22.9	21.7	24.2
75°	12.7	14.0	14.0	10.2	11.5	14.0	10.2	11.5	15.3	12.7	15.3
77.5°	7.7	7.7	7.7	7.7	7.7	7.7	10.2	8.9	8.9	8.9	10.2
80°	6.3	5.1	5.1	3.8	5.1	5.1	5.1	7.7	6.3	6.3	7.7
82.5°	2.6	2.6	1.3	0.0	2.6	2.6	2.6	2.6	2.6	2.6	5.1
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: P248947

CATALOG NUMBER: LD8B60D010 ER8B60950 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2
2.5°	2606.6	2606.6	2605.3	2602.8	2597.7	2597.7	2596.4	2592.6	2590.1	2588.8	2588.8
5°	2593.9	2588.8	2583.7	2569.7	2569.7	2567.1	2559.5	2554.4	2551.9	2545.5	2542.9
7.5°	2582.4	2567.1	2558.2	2549.3	2537.9	2532.7	2523.8	2520.0	2511.1	2504.7	2500.9
10°	2554.4	2544.2	2532.7	2518.7	2509.8	2499.6	2489.4	2481.8	2470.3	2463.9	2458.8
12.5°	2535.3	2520.0	2509.8	2494.5	2479.2	2470.3	2456.3	2447.4	2435.9	2423.2	2415.5
15°	2517.5	2500.9	2486.9	2470.3	2453.7	2443.6	2427.0	2416.8	2400.3	2387.5	2378.6
17.5°	2490.7	2476.7	2461.4	2441.0	2425.7	2413.0	2395.1	2382.4	2367.1	2350.5	2341.6
20°	2462.7	2446.1	2430.8	2410.4	2395.1	2379.9	2362.0	2348.0	2330.1	2314.9	2304.7
22.5°	2425.7	2406.6	2393.9	2373.5	2355.6	2339.1	2322.5	2306.0	2289.4	2276.7	2265.2
25°	2372.2	2351.8	2337.8	2321.2	2304.7	2292.0	2271.6	2261.4	2244.8	2233.3	2221.9
27.5°	2295.7	2280.5	2267.7	2251.2	2237.2	2227.0	2211.7	2201.5	2187.5	2177.3	2168.4
30°	2183.7	2170.9	2159.5	2142.9	2132.7	2123.8	2109.7	2100.8	2090.7	2079.2	2076.7
32.5°	2033.3	2023.1	2011.7	2000.2	1992.5	1987.5	1976.0	1970.9	1960.7	1954.3	1948.0
35°	1806.5	1797.6	1791.3	1786.2	1783.6	1784.9	1782.4	1787.4	1790.0	1788.7	1790.0
37.5°	1509.7	1504.6	1507.2	1511.0	1523.7	1540.3	1555.6	1578.5	1593.8	1609.1	1623.1
40°	1178.5	1182.3	1192.5	1215.4	1248.5	1285.5	1319.9	1363.2	1406.5	1437.1	1465.1
42.5°	889.3	900.8	926.2	959.3	1009.0	1063.8	1117.3	1181.0	1233.3	1284.2	1319.9
45°	668.9	684.1	717.3	763.1	817.9	881.6	949.2	1020.5	1082.9	1135.2	1174.6
47.5°	521.1	535.1	568.2	616.6	684.1	750.4	820.5	894.4	959.3	1010.3	1044.7
50°	411.5	429.3	458.6	509.6	577.1	647.2	719.8	792.4	853.6	896.9	927.5
52.5°	323.6	340.2	368.2	421.7	490.5	560.6	628.1	699.4	752.9	795.0	815.4
55°	251.0	266.3	295.5	340.2	405.1	473.9	541.4	602.6	652.3	682.9	702.0
57.5°	191.1	202.6	223.0	267.5	326.2	389.8	447.2	508.3	546.6	568.2	580.9
60°	145.3	154.2	175.8	210.2	263.7	318.5	366.9	412.8	443.4	461.2	473.9
62.5°	109.5	119.8	135.0	164.3	205.1	249.7	290.5	324.9	350.3	361.8	370.7
65°	75.1	82.8	94.3	117.2	151.6	183.4	215.3	240.8	257.4	270.1	275.2
67.5°	56.1	61.1	67.5	85.4	109.5	135.0	156.7	174.5	192.4	197.5	206.4
70°	42.1	45.9	52.2	65.0	79.0	96.8	114.7	124.9	137.6	146.5	149.1
72.5°	26.7	28.0	34.4	42.1	53.5	65.0	76.5	85.4	93.0	98.1	100.6
75°	15.3	22.9	22.9	30.6	38.2	43.3	51.0	57.3	61.1	65.0	65.0
77.5°	10.2	14.0	15.3	19.1	22.9	29.3	35.7	39.5	43.3	44.6	44.6
80°	8.9	10.2	10.2	14.0	16.6	21.7	25.5	26.7	29.3	30.6	33.1
82.5°	3.8	5.1	6.3	10.2	11.5	11.5	15.3	16.6	19.1	20.4	20.4
85°	1.3	2.6	2.6	3.8	6.3	7.7	8.9	10.2	11.5	11.5	12.7
87.5°	1.3	1.3	0.0	1.3	2.6	2.6	5.1	5.1	5.1	7.7	7.7
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: P248947

CATALOG NUMBER: LD8B60D010 ER8B60950 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2	2609.2
2.5°	2586.3	2587.5	2582.4	2581.2	2578.6	2579.9	2582.4
5°	2539.1	2540.4	2535.3	2530.2	2530.2	2528.9	2530.2
7.5°	2494.5	2495.8	2488.1	2485.6	2480.5	2481.8	2481.8
10°	2449.9	2449.9	2438.5	2437.2	2433.3	2432.1	2432.1
12.5°	2406.6	2402.8	2393.9	2388.8	2391.3	2383.7	2383.7
15°	2368.4	2362.0	2350.5	2346.7	2340.4	2337.8	2337.8
17.5°	2328.9	2323.8	2313.6	2306.0	2298.3	2297.1	2298.3
20°	2290.7	2285.6	2272.8	2267.7	2261.4	2261.4	2258.8
22.5°	2252.4	2247.3	2235.9	2232.1	2223.2	2223.2	2224.4
25°	2212.9	2209.1	2196.4	2193.9	2192.6	2187.5	2190.0
27.5°	2159.5	2156.9	2146.7	2142.9	2137.8	2136.5	2139.1
30°	2061.3	2057.5	2049.9	2046.1	2037.2	2038.4	2040.9
32.5°	1939.0	1934.0	1923.7	1919.9	1912.3	1909.7	1911.0
35°	1786.2	1782.4	1773.4	1773.4	1765.8	1763.2	1765.8
37.5°	1630.8	1634.5	1630.8	1634.5	1630.8	1629.4	1630.8
40°	1484.2	1498.2	1500.8	1514.8	1509.7	1517.3	1516.1
42.5°	1344.1	1367.0	1376.0	1387.4	1384.9	1390.0	1393.8
45°	1202.6	1221.8	1230.7	1238.4	1239.6	1242.2	1243.4
47.5°	1068.9	1084.2	1085.4	1094.4	1093.1	1093.1	1096.9
50°	944.1	954.2	956.8	963.2	958.1	955.5	956.8
52.5°	828.1	838.3	835.7	838.3	832.0	829.4	830.6
55°	709.6	714.7	714.7	714.7	707.1	707.1	707.1
57.5°	588.6	589.9	587.3	588.6	587.3	579.7	578.4
60°	477.8	477.8	476.5	477.8	473.9	470.1	470.1
62.5°	373.3	375.8	380.9	375.8	373.3	375.8	372.0
65°	279.0	284.1	282.8	285.4	284.1	284.1	281.5
67.5°	210.2	211.5	212.7	214.1	214.1	214.1	214.1
70°	154.2	158.0	156.7	156.7	156.7	156.7	164.3
72.5°	103.2	108.3	107.0	109.5	109.5	112.1	109.5
75°	70.1	75.1	72.6	76.5	75.1	72.6	79.0
77.5°	47.1	49.7	51.0	52.2	51.0	49.7	51.0
80°	33.1	35.7	34.4	35.7	35.7	35.7	37.0
82.5°	20.4	24.2	22.9	24.2	22.9	24.2	24.2
85°	14.0	15.3	12.7	15.3	14.0	14.0	16.6
87.5°	8.9	7.7	7.7	8.9	7.7	8.9	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)