

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: P245861

Luminaire Tested: **LD8B50D010 ER8B50935 8LBSW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245861  
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: LD8B50D010 ER8B50935 8LBSW0GPH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 3500 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4345.0 lumens  
Efficiency: N/A  
Efficacy: 82.0 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

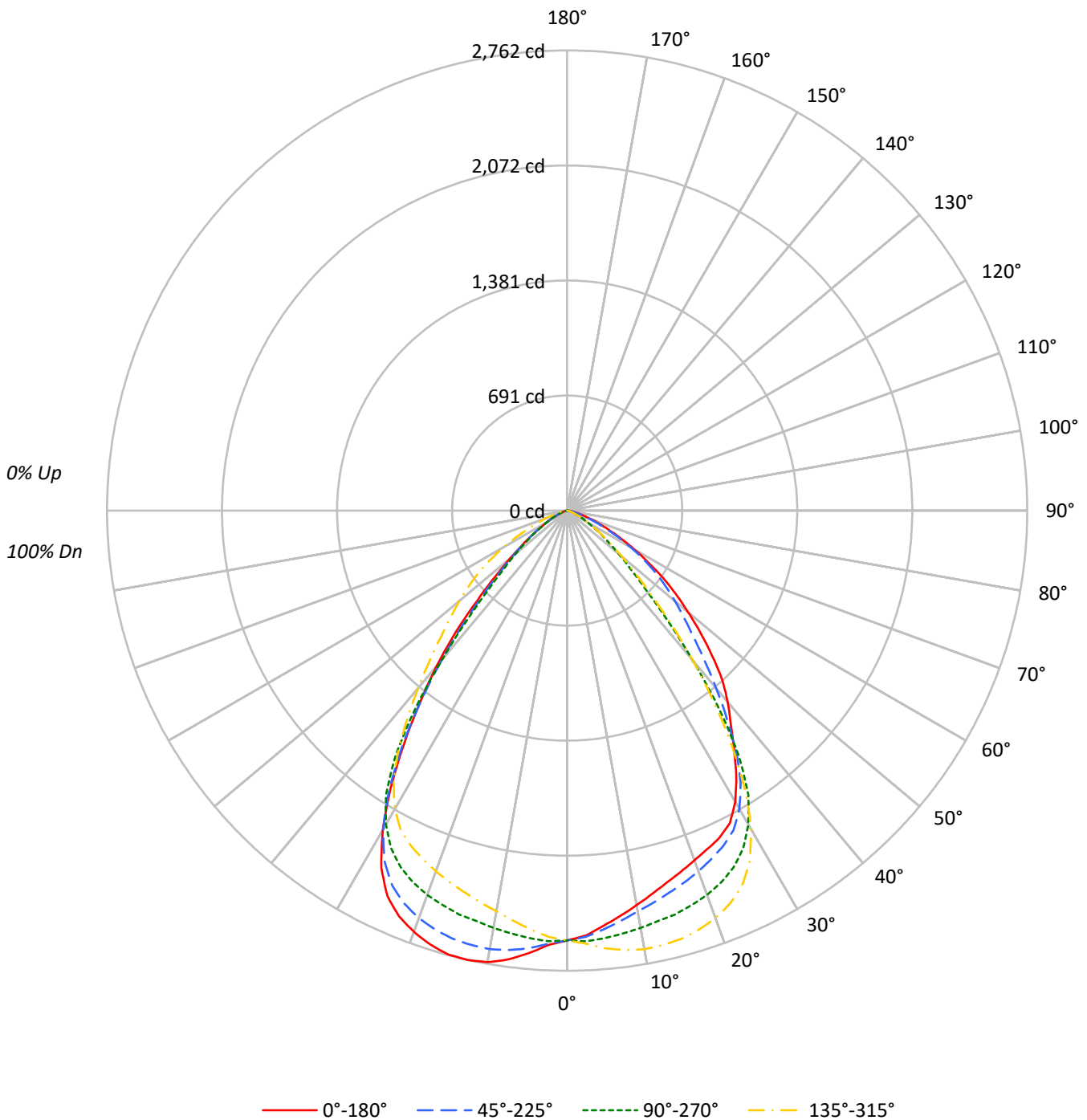
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

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

	0°	90°	180°	270°
0°	79542	79542	79542	79542
5°	77429	79728	82576	79728
10°	75287	79623	86171	79623
15°	73783	80098	88056	80098
20°	73280	80555	88283	80555
25°	73666	80392	86864	80392
30°	71844	77452	78844	77452
35°	65715	67564	64104	67564
40°	60333	47001	49078	47001
45°	53609	28673	33173	28673
50°	45377	19151	21271	19151
55°	37579	13069	13811	13069
60°	28665	8702	8776	8702
65°	20306	5421	4962	5421
70°	14651	3633	3291	3633
75°	9305	1799	1501	1799
80°	6482	1350	1119	1350
85°	5802	0	425	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.5	5.7
10°-20°	711.0	16.4
20°-30°	1076.6	24.8
30°-40°	1079.0	24.8
40°-50°	677.5	15.6
50°-60°	361.1	8.3
60°-70°	148.5	3.4
70°-80°	39.2	0.9
80°-90°	6.6	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°	2033.1	46.8
0°-40°	3112.1	71.6
0°-60°	4150.7	95.5
0°-90°	4345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4345.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2580	2580	2580	2580	2580	
5°	2501	2576	2668	2576	2501	236
15°	2311	2509	2758	2509	2311	654
25°	2165	2363	2553	2363	2165	993
35°	1746	1795	1703	1795	1746	1094
45°	1229	658	761	658	1229	945
55°	699	243	257	243	699	623
65°	278	74	68	74	278	289
75°	78	15	13	15	78	88
85°	16	0	1	0	16	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°	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5
2.5°	2553.0	2550.5	2549.3	2551.8	2553.0	2558.1	2556.8	2559.3	2559.3	2560.6	2563.1
5°	2501.4	2500.1	2501.4	2501.4	2506.4	2511.5	2510.2	2514.0	2516.5	2522.8	2525.3
7.5°	2453.6	2453.6	2452.3	2457.3	2459.8	2467.4	2466.1	2472.4	2476.2	2482.5	2491.3
10°	2404.4	2404.4	2405.7	2409.4	2410.7	2422.0	2422.0	2430.9	2435.9	2442.2	2453.6
12.5°	2356.6	2356.6	2364.1	2361.6	2366.6	2375.4	2379.2	2388.0	2395.6	2408.2	2419.6
15°	2311.2	2311.2	2313.7	2320.0	2323.8	2335.2	2341.4	2351.5	2360.3	2372.9	2389.3
17.5°	2272.2	2270.9	2272.2	2279.7	2287.3	2297.4	2302.4	2315.0	2323.8	2340.2	2355.3
20°	2233.1	2235.7	2235.7	2241.9	2247.0	2259.6	2264.6	2278.5	2288.5	2303.6	2321.3
22.5°	2199.1	2197.9	2197.9	2206.7	2210.5	2221.8	2226.8	2239.4	2250.8	2263.4	2279.7
25°	2165.1	2162.6	2167.6	2168.9	2171.4	2184.0	2187.8	2196.6	2207.9	2219.3	2235.7
27.5°	2114.7	2112.2	2113.5	2118.5	2122.3	2132.3	2134.9	2143.7	2152.5	2162.6	2176.5
30°	2017.7	2015.2	2014.0	2022.8	2026.6	2034.1	2037.9	2053.0	2055.5	2066.9	2076.9
32.5°	1889.3	1888.0	1890.6	1898.1	1901.9	1912.0	1917.0	1925.8	1932.1	1938.4	1948.5
35°	1745.7	1743.2	1745.7	1753.3	1753.3	1762.1	1765.9	1769.6	1768.4	1769.6	1767.1
37.5°	1612.2	1610.9	1612.2	1615.9	1612.2	1615.9	1612.2	1604.6	1590.8	1575.7	1560.5
40°	1498.8	1500.1	1492.6	1497.6	1483.7	1481.2	1467.4	1448.4	1420.8	1390.5	1347.7
42.5°	1377.9	1374.1	1369.1	1371.6	1360.3	1351.4	1328.8	1304.9	1269.6	1219.2	1167.6
45°	1229.3	1228.1	1225.5	1224.3	1216.7	1207.9	1189.0	1161.3	1122.2	1070.6	1008.9
47.5°	1084.4	1080.7	1080.7	1081.9	1073.1	1071.8	1056.7	1032.8	998.8	948.4	884.2
50°	945.9	944.6	947.2	952.2	945.9	943.4	933.3	916.9	886.7	843.9	783.4
52.5°	821.2	819.9	822.5	828.8	826.2	828.8	818.7	806.1	785.9	744.4	691.5
55°	699.0	699.0	699.0	706.6	706.6	706.6	701.5	694.0	675.1	644.9	595.8
57.5°	571.8	573.1	580.6	581.9	580.6	583.2	581.9	574.3	561.8	540.4	502.6
60°	464.8	464.8	468.6	472.3	471.0	472.3	472.3	468.6	456.0	438.3	408.1
62.5°	367.8	371.6	369.0	371.6	376.6	371.6	369.0	366.5	357.7	346.4	321.2
65°	278.3	280.9	280.9	282.1	279.6	280.9	275.9	272.1	267.0	254.4	238.1
67.5°	211.6	211.6	211.6	211.6	210.3	209.1	207.8	204.1	195.2	190.2	172.5
70°	162.5	154.9	154.9	154.9	154.9	156.2	152.4	147.4	144.8	136.0	123.4
72.5°	108.3	110.8	108.3	108.3	105.8	107.1	102.0	99.5	97.0	92.0	84.4
75°	78.1	71.8	74.3	75.6	71.8	74.3	69.3	64.2	64.2	60.4	56.7
77.5°	50.4	49.1	50.4	51.6	50.4	49.1	46.6	44.1	44.1	42.8	39.0
80°	36.5	35.3	35.3	35.3	34.0	35.3	32.8	32.8	30.2	29.0	26.4
82.5°	24.0	24.0	22.7	24.0	22.7	24.0	20.2	20.2	20.2	18.9	16.4
85°	16.4	13.8	13.8	15.1	12.6	15.1	13.8	12.6	11.4	11.4	10.1
87.5°	7.6	8.8	7.6	8.8	7.6	7.6	8.8	7.6	7.6	5.0	5.0
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°	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5
2.5°	2566.9	2568.1	2568.1	2573.2	2575.7	2576.9	2576.9	2587.1	2583.3	2585.8	2588.3
5°	2530.4	2537.9	2540.5	2540.5	2554.3	2559.3	2564.4	2575.7	2576.9	2584.5	2593.3
7.5°	2495.1	2503.9	2509.0	2520.3	2529.1	2537.9	2553.0	2560.6	2568.1	2578.2	2589.5
10°	2461.1	2471.2	2481.2	2490.1	2503.9	2515.3	2525.3	2542.9	2551.8	2565.6	2580.7
12.5°	2428.4	2442.2	2451.0	2466.1	2481.2	2491.3	2506.4	2522.8	2536.7	2550.5	2568.1
15°	2399.4	2415.8	2425.8	2442.2	2458.6	2472.4	2488.8	2509.0	2519.0	2535.4	2551.8
17.5°	2367.9	2385.5	2398.1	2413.2	2433.4	2448.5	2462.4	2482.5	2495.1	2512.7	2531.6
20°	2335.2	2352.8	2367.9	2383.0	2403.2	2418.3	2434.6	2454.8	2468.6	2486.3	2501.4
22.5°	2296.1	2312.5	2328.8	2346.5	2366.6	2379.2	2398.1	2415.8	2430.9	2447.2	2462.4
25°	2245.7	2265.9	2278.5	2294.8	2311.2	2325.0	2345.2	2362.8	2375.4	2390.6	2404.4
27.5°	2186.5	2201.7	2211.7	2225.6	2241.9	2254.5	2269.6	2287.3	2299.9	2313.7	2323.8
30°	2085.7	2099.6	2108.4	2118.5	2134.9	2146.2	2158.8	2175.2	2184.0	2194.1	2202.9
32.5°	1953.5	1964.8	1969.9	1977.4	1988.8	2000.1	2010.2	2024.0	2027.8	2034.1	2034.1
35°	1762.1	1764.6	1763.3	1765.9	1770.9	1777.2	1786.0	1794.8	1799.8	1799.8	1796.1
37.5°	1537.9	1522.8	1506.4	1493.8	1490.0	1487.5	1492.6	1496.3	1501.4	1503.9	1497.6
40°	1304.9	1270.9	1234.3	1201.6	1178.9	1168.8	1165.1	1167.6	1167.6	1176.4	1176.4
42.5°	1104.6	1051.7	997.6	948.4	915.6	890.5	879.1	879.1	880.4	886.7	890.5
45°	938.4	871.6	808.6	754.5	709.1	676.3	661.3	657.5	656.2	658.7	667.5
47.5°	811.1	741.9	676.3	609.6	561.8	529.0	515.2	510.1	505.1	510.1	511.4
50°	711.6	639.8	570.6	503.8	453.4	424.4	406.8	399.2	398.0	398.0	400.5
52.5°	620.9	554.2	484.9	416.9	364.0	336.3	319.9	316.1	311.1	316.1	316.1
55°	535.3	468.6	400.5	336.3	292.2	263.3	248.1	243.1	240.6	244.3	244.3
57.5°	442.1	385.4	322.5	264.5	220.4	200.3	188.9	182.6	181.3	183.9	181.3
60°	362.7	314.9	260.7	207.8	173.8	152.4	143.6	141.1	138.5	141.1	141.1
62.5°	287.2	246.9	202.8	162.5	133.5	118.4	108.3	108.3	107.1	107.1	108.3
65°	212.9	181.3	149.9	115.9	93.2	81.9	74.3	74.3	73.0	74.3	73.0
67.5°	154.9	133.5	108.3	84.4	66.8	60.4	55.4	51.6	54.2	51.6	50.4
70°	113.4	95.7	78.1	64.2	51.6	45.4	41.6	40.3	37.8	37.8	37.8
72.5°	75.6	64.2	52.9	41.6	34.0	27.7	26.4	24.0	21.4	22.7	25.2
75°	50.4	42.8	37.8	30.2	22.7	22.7	15.1	15.1	12.6	15.1	11.4
77.5°	35.3	29.0	22.7	18.9	15.1	13.8	10.1	10.1	8.8	8.8	8.8
80°	25.2	21.4	16.4	13.8	10.1	10.1	8.8	7.6	6.3	6.3	7.6
82.5°	15.1	11.4	11.4	10.1	6.3	5.0	3.8	5.0	2.5	2.5	2.5
85°	8.8	7.6	6.3	3.8	2.5	2.5	1.2	0.0	1.2	1.2	0.0
87.5°	5.0	2.5	2.5	1.2	0.0	1.2	1.2	0.0	0.0	0.0	2.5
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°	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5
2.5°	2594.6	2593.3	2595.9	2595.9	2603.4	2602.1	2605.9	2605.9	2603.4	2604.7	2609.7
5°	2603.4	2607.2	2614.7	2621.1	2632.4	2637.4	2643.7	2650.0	2651.3	2655.1	2658.9
7.5°	2603.4	2616.0	2624.9	2636.2	2651.3	2660.1	2673.9	2685.3	2690.3	2696.6	2704.2
10°	2598.4	2611.0	2627.3	2639.9	2658.9	2672.7	2686.5	2704.2	2711.7	2721.8	2731.9
12.5°	2588.3	2602.1	2619.8	2636.2	2657.6	2670.2	2687.8	2704.2	2715.5	2729.4	2740.7
15°	2573.2	2589.5	2605.9	2622.3	2645.0	2660.1	2676.5	2695.4	2706.7	2721.8	2731.9
17.5°	2549.3	2566.9	2582.0	2597.1	2618.5	2636.2	2651.3	2668.9	2680.3	2692.9	2706.7
20°	2520.3	2536.7	2553.0	2565.6	2587.1	2602.1	2618.5	2634.9	2643.7	2646.3	2667.7
22.5°	2483.8	2495.1	2507.7	2527.9	2540.5	2554.3	2569.4	2584.5	2593.3	2607.2	2614.7
25°	2423.3	2434.6	2448.5	2457.3	2472.4	2483.8	2498.9	2515.3	2520.3	2530.4	2537.9
27.5°	2338.9	2345.2	2351.5	2359.1	2367.9	2374.2	2383.0	2390.6	2395.6	2400.6	2405.7
30°	2205.4	2205.4	2205.4	2200.4	2204.1	2207.9	2209.2	2207.9	2207.9	2206.7	2206.7
32.5°	2029.1	2019.0	2007.7	1997.6	1993.8	1988.8	1986.3	1982.5	1976.2	1972.4	1973.7
35°	1791.0	1768.4	1754.5	1741.9	1731.9	1724.3	1720.5	1716.7	1715.5	1710.4	1705.4
37.5°	1493.8	1477.4	1467.4	1459.8	1451.0	1443.4	1444.7	1445.9	1449.7	1447.2	1448.4
40°	1178.9	1175.1	1178.9	1170.1	1167.6	1170.1	1176.4	1185.2	1190.3	1195.3	1204.1
42.5°	896.8	903.0	911.9	911.9	915.6	920.7	928.2	942.1	949.7	958.5	968.6
45°	675.1	682.7	694.0	697.8	700.3	706.6	715.4	726.7	731.8	739.3	748.1
47.5°	520.2	525.2	531.5	537.8	544.1	546.6	555.4	555.4	561.8	566.8	569.3
50°	405.6	410.6	415.6	419.4	421.9	425.7	428.2	432.0	433.3	435.8	437.0
52.5°	317.4	323.7	323.7	326.2	330.0	333.8	332.5	333.8	335.0	335.0	338.8
55°	248.1	248.1	251.9	251.9	254.4	253.1	254.4	254.4	254.4	254.4	255.7
57.5°	185.1	186.4	190.2	187.7	186.4	188.9	186.4	188.9	187.7	190.2	186.4
60°	142.3	142.3	143.6	143.6	144.8	144.8	144.8	143.6	143.6	142.3	142.3
62.5°	107.1	108.3	109.6	108.3	108.3	108.3	107.1	107.1	105.8	104.5	104.5
65°	71.8	70.6	73.0	70.6	71.8	71.8	70.6	71.8	68.0	69.3	68.0
67.5°	51.6	50.4	49.1	50.4	49.1	47.9	47.9	49.1	50.4	46.6	46.6
70°	34.0	35.3	34.0	35.3	36.5	36.5	35.3	34.0	35.3	32.8	34.0
72.5°	21.4	21.4	21.4	21.4	21.4	22.7	22.7	22.7	20.2	20.2	18.9
75°	10.1	13.8	11.4	10.1	13.8	13.8	12.6	12.6	11.4	11.4	11.4
77.5°	10.1	7.6	7.6	7.6	7.6	7.6	7.6	7.6	6.3	7.6	6.3
80°	5.0	5.0	5.0	3.8	5.0	5.0	6.3	5.0	5.0	3.8	6.3
82.5°	2.5	2.5	2.5	0.0	1.2	2.5	2.5	1.2	2.5	2.5	1.2
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: P245861

CATALOG NUMBER: LD8B50D010 ER8B50935 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5
2.5°	2608.5	2607.2	2608.5	2609.7	2608.5	2607.2	2608.5	2609.7	2604.7	2603.4	2605.9
5°	2663.9	2663.9	2666.4	2667.7	2666.4	2663.9	2663.9	2658.9	2655.1	2651.3	2650.0
7.5°	2711.7	2714.3	2716.8	2718.0	2716.8	2714.3	2711.7	2704.2	2696.6	2690.3	2685.3
10°	2740.7	2744.5	2749.5	2752.0	2749.5	2744.5	2740.7	2731.9	2721.8	2711.7	2704.2
12.5°	2753.3	2757.1	2763.4	2762.1	2763.4	2757.1	2753.3	2740.7	2729.4	2715.5	2704.2
15°	2744.5	2749.5	2755.8	2758.3	2755.8	2749.5	2744.5	2731.9	2721.8	2706.7	2695.4
17.5°	2716.8	2724.3	2728.1	2731.9	2728.1	2724.3	2716.8	2706.7	2692.9	2680.3	2668.9
20°	2679.0	2684.1	2689.1	2690.3	2689.1	2684.1	2679.0	2667.7	2646.3	2643.7	2634.9
22.5°	2624.9	2628.6	2639.9	2636.2	2639.9	2628.6	2624.9	2614.7	2607.2	2593.3	2584.5
25°	2546.7	2550.5	2551.8	2553.0	2551.8	2550.5	2546.7	2537.9	2530.4	2520.3	2515.3
27.5°	2412.0	2412.0	2414.5	2415.8	2414.5	2412.0	2412.0	2405.7	2400.6	2395.6	2390.6
30°	2207.9	2207.9	2207.9	2214.3	2207.9	2207.9	2207.9	2206.7	2206.7	2207.9	2207.9
32.5°	1972.4	1969.9	1967.4	1969.9	1967.4	1969.9	1972.4	1973.7	1972.4	1976.2	1982.5
35°	1705.4	1704.1	1707.9	1702.9	1707.9	1704.1	1705.4	1705.4	1710.4	1715.5	1716.7
37.5°	1449.7	1447.2	1452.2	1447.2	1452.2	1447.2	1449.7	1448.4	1447.2	1449.7	1445.9
40°	1206.6	1209.1	1209.1	1219.2	1209.1	1209.1	1206.6	1204.1	1195.3	1190.3	1185.2
42.5°	973.6	981.2	978.6	986.2	978.6	981.2	973.6	968.6	958.5	949.7	942.1
45°	753.2	758.3	758.3	760.7	758.3	758.3	753.2	748.1	739.3	731.8	726.7
47.5°	578.1	578.1	578.1	579.4	578.1	578.1	578.1	569.3	566.8	561.8	555.4
50°	439.6	440.8	442.1	443.4	442.1	440.8	439.6	437.0	435.8	433.3	432.0
52.5°	337.5	338.8	336.3	338.8	336.3	338.8	337.5	338.8	335.0	335.0	333.8
55°	255.7	254.4	255.7	256.9	255.7	254.4	255.7	255.7	254.4	254.4	254.4
57.5°	187.7	185.1	185.1	185.1	185.1	185.1	187.7	186.4	190.2	187.7	188.9
60°	139.8	141.1	141.1	142.3	141.1	141.1	139.8	142.3	142.3	143.6	143.6
62.5°	103.3	107.1	104.5	107.1	104.5	107.1	103.3	104.5	104.5	105.8	107.1
65°	66.8	66.8	66.8	68.0	66.8	66.8	66.8	68.0	69.3	68.0	71.8
67.5°	45.4	46.6	49.1	47.9	49.1	46.6	45.4	46.6	46.6	50.4	49.1
70°	36.5	32.8	32.8	36.5	32.8	32.8	36.5	34.0	32.8	35.3	34.0
72.5°	21.4	18.9	21.4	21.4	21.4	18.9	21.4	18.9	20.2	20.2	22.7
75°	11.4	10.1	8.8	12.6	8.8	10.1	11.4	11.4	11.4	11.4	12.6
77.5°	7.6	6.3	8.8	8.8	8.8	6.3	7.6	6.3	7.6	6.3	7.6
80°	3.8	5.0	3.8	6.3	3.8	5.0	3.8	6.3	3.8	5.0	5.0
82.5°	1.2	2.5	2.5	2.5	2.5	2.5	1.2	1.2	2.5	2.5	1.2
85°	0.0	2.5	1.2	1.2	1.2	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.0	0.0	1.2	0.0	0.0	1.2	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: P245861

CATALOG NUMBER: LD8B50D010 ER8B50935 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5
2.5°	2605.9	2602.1	2603.4	2595.9	2595.9	2593.3	2594.6	2588.3	2585.8	2583.3	2587.1
5°	2643.7	2637.4	2632.4	2621.1	2614.7	2607.2	2603.4	2593.3	2584.5	2576.9	2575.7
7.5°	2673.9	2660.1	2651.3	2636.2	2624.9	2616.0	2603.4	2589.5	2578.2	2568.1	2560.6
10°	2686.5	2672.7	2658.9	2639.9	2627.3	2611.0	2598.4	2580.7	2565.6	2551.8	2542.9
12.5°	2687.8	2670.2	2657.6	2636.2	2619.8	2602.1	2588.3	2568.1	2550.5	2536.7	2522.8
15°	2676.5	2660.1	2645.0	2622.3	2605.9	2589.5	2573.2	2551.8	2535.4	2519.0	2509.0
17.5°	2651.3	2636.2	2618.5	2597.1	2582.0	2566.9	2549.3	2531.6	2512.7	2495.1	2482.5
20°	2618.5	2602.1	2587.1	2565.6	2553.0	2536.7	2520.3	2501.4	2486.3	2468.6	2454.8
22.5°	2569.4	2554.3	2540.5	2527.9	2507.7	2495.1	2483.8	2462.4	2447.2	2430.9	2415.8
25°	2498.9	2483.8	2472.4	2457.3	2448.5	2434.6	2423.3	2404.4	2390.6	2375.4	2362.8
27.5°	2383.0	2374.2	2367.9	2359.1	2351.5	2345.2	2338.9	2323.8	2313.7	2299.9	2287.3
30°	2209.2	2207.9	2204.1	2200.4	2205.4	2205.4	2205.4	2202.9	2194.1	2184.0	2175.2
32.5°	1986.3	1988.8	1993.8	1997.6	2007.7	2019.0	2029.1	2034.1	2034.1	2027.8	2024.0
35°	1720.5	1724.3	1731.9	1741.9	1754.5	1768.4	1791.0	1796.1	1799.8	1799.8	1794.8
37.5°	1444.7	1443.4	1451.0	1459.8	1467.4	1477.4	1493.8	1497.6	1503.9	1501.4	1496.3
40°	1176.4	1170.1	1167.6	1170.1	1178.9	1175.1	1178.9	1176.4	1176.4	1167.6	1167.6
42.5°	928.2	920.7	915.6	911.9	911.9	903.0	896.8	890.5	886.7	880.4	879.1
45°	715.4	706.6	700.3	697.8	694.0	682.7	675.1	667.5	658.7	656.2	657.5
47.5°	555.4	546.6	544.1	537.8	531.5	525.2	520.2	511.4	510.1	505.1	510.1
50°	428.2	425.7	421.9	419.4	415.6	410.6	405.6	400.5	398.0	398.0	399.2
52.5°	332.5	333.8	330.0	326.2	323.7	323.7	317.4	316.1	316.1	311.1	316.1
55°	254.4	253.1	254.4	251.9	251.9	248.1	248.1	244.3	244.3	240.6	243.1
57.5°	186.4	188.9	186.4	187.7	190.2	186.4	185.1	181.3	183.9	181.3	182.6
60°	144.8	144.8	144.8	143.6	143.6	142.3	142.3	141.1	141.1	138.5	141.1
62.5°	107.1	108.3	108.3	108.3	109.6	108.3	107.1	108.3	107.1	107.1	108.3
65°	70.6	71.8	71.8	70.6	73.0	70.6	71.8	73.0	74.3	73.0	74.3
67.5°	47.9	47.9	49.1	50.4	49.1	50.4	51.6	50.4	51.6	54.2	51.6
70°	35.3	36.5	36.5	35.3	34.0	35.3	34.0	37.8	37.8	37.8	40.3
72.5°	22.7	22.7	21.4	21.4	21.4	21.4	21.4	25.2	22.7	21.4	24.0
75°	12.6	13.8	13.8	10.1	11.4	13.8	10.1	11.4	15.1	12.6	15.1
77.5°	7.6	7.6	7.6	7.6	7.6	7.6	10.1	8.8	8.8	8.8	10.1
80°	6.3	5.0	5.0	3.8	5.0	5.0	5.0	7.6	6.3	6.3	7.6
82.5°	2.5	2.5	1.2	0.0	2.5	2.5	2.5	2.5	2.5	2.5	5.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	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: P245861

CATALOG NUMBER: LD8B50D010 ER8B50935 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5
2.5°	2576.9	2576.9	2575.7	2573.2	2568.1	2568.1	2566.9	2563.1	2560.6	2559.3	2559.3
5°	2564.4	2559.3	2554.3	2540.5	2540.5	2537.9	2530.4	2525.3	2522.8	2516.5	2514.0
7.5°	2553.0	2537.9	2529.1	2520.3	2509.0	2503.9	2495.1	2491.3	2482.5	2476.2	2472.4
10°	2525.3	2515.3	2503.9	2490.1	2481.2	2471.2	2461.1	2453.6	2442.2	2435.9	2430.9
12.5°	2506.4	2491.3	2481.2	2466.1	2451.0	2442.2	2428.4	2419.6	2408.2	2395.6	2388.0
15°	2488.8	2472.4	2458.6	2442.2	2425.8	2415.8	2399.4	2389.3	2372.9	2360.3	2351.5
17.5°	2462.4	2448.5	2433.4	2413.2	2398.1	2385.5	2367.9	2355.3	2340.2	2323.8	2315.0
20°	2434.6	2418.3	2403.2	2383.0	2367.9	2352.8	2335.2	2321.3	2303.6	2288.5	2278.5
22.5°	2398.1	2379.2	2366.6	2346.5	2328.8	2312.5	2296.1	2279.7	2263.4	2250.8	2239.4
25°	2345.2	2325.0	2311.2	2294.8	2278.5	2265.9	2245.7	2235.7	2219.3	2207.9	2196.6
27.5°	2269.6	2254.5	2241.9	2225.6	2211.7	2201.7	2186.5	2176.5	2162.6	2152.5	2143.7
30°	2158.8	2146.2	2134.9	2118.5	2108.4	2099.6	2085.7	2076.9	2066.9	2055.5	2053.0
32.5°	2010.2	2000.1	1988.8	1977.4	1969.9	1964.8	1953.5	1948.5	1938.4	1932.1	1925.8
35°	1786.0	1777.2	1770.9	1765.9	1763.3	1764.6	1762.1	1767.1	1769.6	1768.4	1769.6
37.5°	1492.6	1487.5	1490.0	1493.8	1506.4	1522.8	1537.9	1560.5	1575.7	1590.8	1604.6
40°	1165.1	1168.8	1178.9	1201.6	1234.3	1270.9	1304.9	1347.7	1390.5	1420.8	1448.4
42.5°	879.1	890.5	915.6	948.4	997.6	1051.7	1104.6	1167.6	1219.2	1269.6	1304.9
45°	661.3	676.3	709.1	754.5	808.6	871.6	938.4	1008.9	1070.6	1122.2	1161.3
47.5°	515.2	529.0	561.8	609.6	676.3	741.9	811.1	884.2	948.4	998.8	1032.8
50°	406.8	424.4	453.4	503.8	570.6	639.8	711.6	783.4	843.9	886.7	916.9
52.5°	319.9	336.3	364.0	416.9	484.9	554.2	620.9	691.5	744.4	785.9	806.1
55°	248.1	263.3	292.2	336.3	400.5	468.6	535.3	595.8	644.9	675.1	694.0
57.5°	188.9	200.3	220.4	264.5	322.5	385.4	442.1	502.6	540.4	561.8	574.3
60°	143.6	152.4	173.8	207.8	260.7	314.9	362.7	408.1	438.3	456.0	468.6
62.5°	108.3	118.4	133.5	162.5	202.8	246.9	287.2	321.2	346.4	357.7	366.5
65°	74.3	81.9	93.2	115.9	149.9	181.3	212.9	238.1	254.4	267.0	272.1
67.5°	55.4	60.4	66.8	84.4	108.3	133.5	154.9	172.5	190.2	195.2	204.1
70°	41.6	45.4	51.6	64.2	78.1	95.7	113.4	123.4	136.0	144.8	147.4
72.5°	26.4	27.7	34.0	41.6	52.9	64.2	75.6	84.4	92.0	97.0	99.5
75°	15.1	22.7	22.7	30.2	37.8	42.8	50.4	56.7	60.4	64.2	64.2
77.5°	10.1	13.8	15.1	18.9	22.7	29.0	35.3	39.0	42.8	44.1	44.1
80°	8.8	10.1	10.1	13.8	16.4	21.4	25.2	26.4	29.0	30.2	32.8
82.5°	3.8	5.0	6.3	10.1	11.4	11.4	15.1	16.4	18.9	20.2	20.2
85°	1.2	2.5	2.5	3.8	6.3	7.6	8.8	10.1	11.4	11.4	12.6
87.5°	1.2	1.2	0.0	1.2	2.5	2.5	5.0	5.0	5.0	7.6	7.6
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: P245861

CATALOG NUMBER: LD8B50D010 ER8B50935 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5
2.5°	2556.8	2558.1	2553.0	2551.8	2549.3	2550.5	2553.0
5°	2510.2	2511.5	2506.4	2501.4	2501.4	2500.1	2501.4
7.5°	2466.1	2467.4	2459.8	2457.3	2452.3	2453.6	2453.6
10°	2422.0	2422.0	2410.7	2409.4	2405.7	2404.4	2404.4
12.5°	2379.2	2375.4	2366.6	2361.6	2364.1	2356.6	2356.6
15°	2341.4	2335.2	2323.8	2320.0	2313.7	2311.2	2311.2
17.5°	2302.4	2297.4	2287.3	2279.7	2272.2	2270.9	2272.2
20°	2264.6	2259.6	2247.0	2241.9	2235.7	2235.7	2233.1
22.5°	2226.8	2221.8	2210.5	2206.7	2197.9	2197.9	2199.1
25°	2187.8	2184.0	2171.4	2168.9	2167.6	2162.6	2165.1
27.5°	2134.9	2132.3	2122.3	2118.5	2113.5	2112.2	2114.7
30°	2037.9	2034.1	2026.6	2022.8	2014.0	2015.2	2017.7
32.5°	1917.0	1912.0	1901.9	1898.1	1890.6	1888.0	1889.3
35°	1765.9	1762.1	1753.3	1753.3	1745.7	1743.2	1745.7
37.5°	1612.2	1615.9	1612.2	1615.9	1612.2	1610.9	1612.2
40°	1467.4	1481.2	1483.7	1497.6	1492.6	1500.1	1498.8
42.5°	1328.8	1351.4	1360.3	1371.6	1369.1	1374.1	1377.9
45°	1189.0	1207.9	1216.7	1224.3	1225.5	1228.1	1229.3
47.5°	1056.7	1071.8	1073.1	1081.9	1080.7	1080.7	1084.4
50°	933.3	943.4	945.9	952.2	947.2	944.6	945.9
52.5°	818.7	828.8	826.2	828.8	822.5	819.9	821.2
55°	701.5	706.6	706.6	706.6	699.0	699.0	699.0
57.5°	581.9	583.2	580.6	581.9	580.6	573.1	571.8
60°	472.3	472.3	471.0	472.3	468.6	464.8	464.8
62.5°	369.0	371.6	376.6	371.6	369.0	371.6	367.8
65°	275.9	280.9	279.6	282.1	280.9	280.9	278.3
67.5°	207.8	209.1	210.3	211.6	211.6	211.6	211.6
70°	152.4	156.2	154.9	154.9	154.9	154.9	162.5
72.5°	102.0	107.1	105.8	108.3	108.3	110.8	108.3
75°	69.3	74.3	71.8	75.6	74.3	71.8	78.1
77.5°	46.6	49.1	50.4	51.6	50.4	49.1	50.4
80°	32.8	35.3	34.0	35.3	35.3	35.3	36.5
82.5°	20.2	24.0	22.7	24.0	22.7	24.0	24.0
85°	13.8	15.1	12.6	15.1	13.8	13.8	16.4
87.5°	8.8	7.6	7.6	8.8	7.6	8.8	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)