

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: P244540

Luminaire Tested: **LD8B40D010 ER8B40840 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244540
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: LD8B40D010 ER8B40840 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4372.0 lumens
Efficiency: N/A
Efficacy: 106.9 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

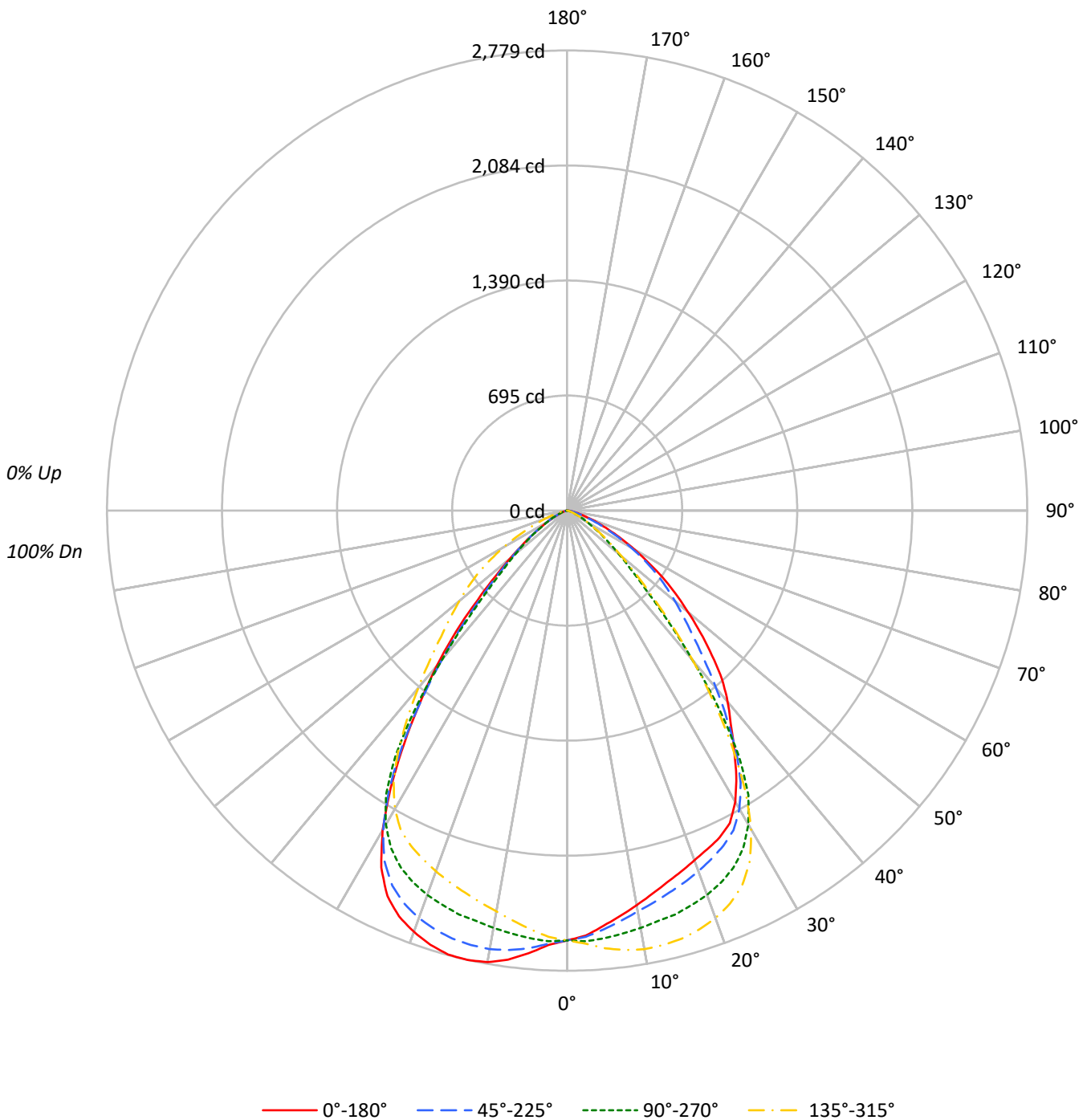
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	80036	80036	80036	80036
5°	77911	80224	83090	80224
10°	75756	80118	86706	80118
15°	74243	80596	88605	80596
20°	73736	81057	88831	81057
25°	74125	80892	87405	80892
30°	72292	77932	79332	77932
35°	66122	67982	64503	67982
40°	60707	47290	49384	47290
45°	53940	28852	33383	28852
50°	45656	19271	21401	19271
55°	37816	13150	13897	13150
60°	28844	8751	8832	8751
65°	20437	5458	4991	5458
70°	14741	3651	3318	3651
75°	9365	1811	1513	1811
80°	6535	1350	1119	1350
85°	5838	0	460	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.0	5.7
10°-20°	715.4	16.4
20°-30°	1083.3	24.8
30°-40°	1085.7	24.8
40°-50°	681.8	15.6
50°-60°	363.3	8.3
60°-70°	149.4	3.4
70°-80°	39.5	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°	2045.7	46.8
0°-40°	3131.4	71.6
0°-60°	4176.5	95.5
0°-90°	4372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4372.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2596	2596	2596	2596	2596	
5°	2517	2592	2684	2592	2517	237
15°	2326	2525	2776	2525	2326	658
25°	2179	2378	2569	2378	2179	999
35°	1756	1806	1714	1806	1756	1100
45°	1237	662	766	662	1237	951
55°	703	245	258	245	703	627
65°	280	75	68	75	280	291
75°	79	15	13	15	79	89
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°	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5
2.5°	2568.9	2566.4	2565.1	2567.7	2568.9	2574.0	2572.7	2575.2	2575.2	2576.5	2579.0
5°	2517.0	2515.7	2517.0	2517.0	2522.0	2527.1	2525.8	2529.6	2532.1	2538.5	2541.0
7.5°	2468.8	2468.8	2467.5	2472.6	2475.1	2482.7	2481.4	2487.8	2491.6	2497.9	2506.8
10°	2419.4	2419.4	2420.6	2424.4	2425.7	2437.1	2437.1	2446.0	2451.0	2457.4	2468.8
12.5°	2371.2	2371.2	2378.8	2376.3	2381.3	2390.2	2394.0	2402.9	2410.5	2423.2	2434.6
15°	2325.6	2325.6	2328.1	2334.4	2338.2	2349.7	2356.0	2366.1	2375.0	2387.7	2404.2
17.5°	2286.3	2285.0	2286.3	2293.9	2301.5	2311.6	2316.7	2329.4	2338.2	2354.7	2370.0
20°	2247.0	2249.6	2249.6	2255.9	2260.9	2273.6	2278.7	2292.6	2302.8	2317.9	2335.7
22.5°	2212.8	2211.5	2211.5	2220.4	2224.2	2235.6	2240.6	2253.3	2264.7	2277.4	2293.9
25°	2178.6	2176.0	2181.1	2182.4	2184.9	2197.6	2201.4	2210.2	2221.7	2233.1	2249.6
27.5°	2127.9	2125.4	2126.6	2131.7	2135.5	2145.6	2148.2	2157.0	2165.9	2176.0	2190.0
30°	2030.3	2027.8	2026.5	2035.4	2039.2	2046.7	2050.6	2065.8	2068.3	2079.7	2089.8
32.5°	1901.0	1899.7	1902.3	1909.9	1913.7	1923.8	1928.9	1937.8	1944.1	1950.4	1960.6
35°	1756.5	1754.0	1756.5	1764.2	1764.2	1773.0	1776.8	1780.6	1779.3	1780.6	1778.1
37.5°	1622.2	1620.9	1622.2	1626.0	1622.2	1626.0	1622.2	1614.6	1600.7	1585.4	1570.2
40°	1508.1	1509.4	1501.8	1506.9	1492.9	1490.4	1476.5	1457.4	1429.6	1399.2	1356.1
42.5°	1386.5	1382.7	1377.6	1380.1	1368.8	1359.8	1337.0	1313.0	1277.5	1226.8	1174.8
45°	1236.9	1235.7	1233.1	1231.9	1224.3	1215.4	1196.4	1168.5	1129.2	1077.3	1015.1
47.5°	1091.2	1087.4	1087.4	1088.6	1079.8	1078.5	1063.3	1039.2	1005.0	954.3	889.7
50°	951.7	950.5	953.1	958.1	951.7	949.2	939.1	922.6	892.2	849.1	788.3
52.5°	826.3	825.0	827.6	833.9	831.4	833.9	823.8	811.1	790.8	749.0	695.8
55°	703.4	703.4	703.4	711.0	711.0	711.0	705.9	698.3	679.3	648.9	599.5
57.5°	575.4	576.6	584.2	585.5	584.2	586.8	585.5	577.9	565.3	543.7	505.7
60°	467.7	467.7	471.5	475.3	474.0	475.3	475.3	471.5	458.8	441.1	410.6
62.5°	370.1	373.9	371.3	373.9	378.9	373.9	371.3	368.8	359.9	348.5	323.2
65°	280.1	282.6	282.6	283.9	281.3	282.6	277.6	273.8	268.7	256.0	239.5
67.5°	212.9	212.9	212.9	212.9	211.6	210.4	209.1	205.3	196.5	191.4	173.6
70°	163.5	155.9	155.9	155.9	155.9	157.2	153.4	148.3	145.7	136.9	124.2
72.5°	109.0	111.5	109.0	109.0	106.5	107.7	102.7	100.1	97.6	92.5	84.9
75°	78.6	72.2	74.8	76.1	72.2	74.8	69.7	64.6	64.6	60.8	57.0
77.5°	50.7	49.5	50.7	52.0	50.7	49.5	46.9	44.3	44.3	43.1	39.3
80°	36.8	35.5	35.5	35.5	34.2	35.5	33.0	33.0	30.4	29.2	26.6
82.5°	24.1	24.1	22.8	24.1	22.8	24.1	20.3	20.3	20.3	19.0	16.5
85°	16.5	13.9	13.9	15.2	12.7	15.2	13.9	12.7	11.4	11.4	10.1
87.5°	7.6	8.9	7.6	8.9	7.6	7.6	8.9	7.6	7.6	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°	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5
2.5°	2582.8	2584.1	2584.1	2589.2	2591.7	2593.0	2593.0	2603.1	2599.3	2601.9	2604.4
5°	2546.1	2553.7	2556.2	2556.2	2570.2	2575.2	2580.3	2591.7	2593.0	2600.6	2609.4
7.5°	2510.6	2519.5	2524.6	2535.9	2544.8	2553.7	2568.9	2576.5	2584.1	2594.3	2605.6
10°	2476.4	2486.5	2496.7	2505.5	2519.5	2530.9	2541.0	2558.7	2567.7	2581.6	2596.8
12.5°	2443.5	2457.4	2466.3	2481.4	2496.7	2506.8	2522.0	2538.5	2552.4	2566.4	2584.1
15°	2414.3	2430.8	2440.9	2457.4	2473.9	2487.8	2504.3	2524.6	2534.7	2551.2	2567.7
17.5°	2382.6	2400.4	2413.0	2428.2	2448.5	2463.7	2477.7	2497.9	2510.6	2528.3	2547.4
20°	2349.7	2367.4	2382.6	2397.8	2418.1	2433.3	2449.8	2470.1	2484.0	2501.7	2517.0
22.5°	2310.4	2326.9	2343.3	2361.0	2381.3	2394.0	2413.0	2430.8	2446.0	2462.4	2477.7
25°	2259.7	2280.0	2292.6	2309.1	2325.6	2339.5	2359.8	2377.5	2390.2	2405.4	2419.4
27.5°	2200.1	2215.3	2225.5	2239.4	2255.9	2268.5	2283.7	2301.5	2314.2	2328.1	2338.2
30°	2098.7	2112.7	2121.5	2131.7	2148.2	2159.6	2172.3	2188.7	2197.6	2207.7	2216.6
32.5°	1965.6	1977.1	1982.1	1989.7	2001.2	2012.5	2022.7	2036.6	2040.4	2046.7	2046.7
35°	1773.0	1775.5	1774.3	1776.8	1781.9	1788.2	1797.1	1805.9	1811.0	1811.0	1807.3
37.5°	1547.4	1532.2	1515.8	1503.1	1499.3	1496.7	1501.8	1505.6	1510.7	1513.2	1506.9
40°	1313.0	1278.8	1242.0	1209.0	1186.2	1176.1	1172.3	1174.8	1174.8	1183.7	1183.7
42.5°	1111.5	1058.2	1003.8	954.3	921.3	896.0	884.6	884.6	885.9	892.2	896.0
45°	944.2	877.0	813.6	759.2	713.5	680.5	665.4	661.6	660.3	662.8	671.7
47.5°	816.2	746.5	680.5	613.4	565.3	532.3	518.4	513.3	508.2	513.3	514.6
50°	716.1	643.8	574.1	506.9	456.2	427.1	409.3	401.7	400.5	400.5	403.0
52.5°	624.8	557.6	488.0	419.5	366.2	338.4	321.9	318.1	313.0	318.1	318.1
55°	538.6	471.5	403.0	338.4	294.0	264.9	249.7	244.6	242.0	245.9	245.9
57.5°	444.9	387.8	324.5	266.1	221.8	201.5	190.1	183.8	182.5	185.0	182.5
60°	365.0	316.8	262.3	209.1	174.9	153.4	144.5	141.9	139.4	141.9	141.9
62.5°	288.9	248.4	204.0	163.5	134.3	119.1	109.0	109.0	107.7	107.7	109.0
65°	214.2	182.5	150.8	116.6	93.8	82.4	74.8	74.8	73.5	74.8	73.5
67.5°	155.9	134.3	109.0	84.9	67.2	60.8	55.8	52.0	54.5	52.0	50.7
70°	114.1	96.3	78.6	64.6	52.0	45.6	41.8	40.5	38.0	38.0	38.0
72.5°	76.1	64.6	53.2	41.8	34.2	27.9	26.6	24.1	21.5	22.8	25.4
75°	50.7	43.1	38.0	30.4	22.8	22.8	15.2	15.2	12.7	15.2	11.4
77.5°	35.5	29.2	22.8	19.0	15.2	13.9	10.1	10.1	8.9	8.9	8.9
80°	25.4	21.5	16.5	13.9	10.1	10.1	8.9	7.6	6.3	6.3	7.6
82.5°	15.2	11.4	11.4	10.1	6.3	5.1	3.8	5.1	2.6	2.6	2.6
85°	8.9	7.6	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°	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5
2.5°	2610.8	2609.4	2612.0	2612.0	2619.6	2618.3	2622.1	2622.1	2619.6	2620.9	2625.9
5°	2619.6	2623.4	2631.0	2637.4	2648.7	2653.8	2660.2	2666.5	2667.8	2671.6	2675.4
7.5°	2619.6	2632.3	2641.2	2652.5	2667.8	2676.6	2690.6	2702.0	2707.0	2713.4	2721.0
10°	2614.5	2627.2	2643.7	2656.3	2675.4	2689.3	2703.2	2721.0	2728.6	2738.7	2748.9
12.5°	2604.4	2618.3	2636.1	2652.5	2674.1	2686.8	2704.5	2721.0	2732.4	2746.3	2757.8
15°	2589.2	2605.6	2622.1	2638.6	2661.4	2676.6	2693.1	2712.1	2723.5	2738.7	2748.9
17.5°	2565.1	2582.8	2598.1	2613.3	2634.8	2652.5	2667.8	2685.5	2696.9	2709.6	2723.5
20°	2535.9	2552.4	2568.9	2581.6	2603.1	2618.3	2634.8	2651.3	2660.2	2662.7	2684.3
22.5°	2499.2	2510.6	2523.3	2543.6	2556.2	2570.2	2585.4	2600.6	2609.4	2623.4	2631.0
25°	2438.3	2449.8	2463.7	2472.6	2487.8	2499.2	2514.4	2530.9	2535.9	2546.1	2553.7
27.5°	2353.5	2359.8	2366.1	2373.7	2382.6	2388.9	2397.8	2405.4	2410.5	2415.5	2420.6
30°	2219.1	2219.1	2219.1	2214.0	2217.8	2221.7	2222.9	2221.7	2221.7	2220.4	2220.4
32.5°	2041.7	2031.6	2020.1	2010.0	2006.2	2001.2	1998.6	1994.8	1988.5	1984.7	1985.9
35°	1802.1	1779.3	1765.4	1752.7	1742.6	1735.0	1731.2	1727.4	1726.1	1721.1	1716.0
37.5°	1503.1	1486.6	1476.5	1468.9	1460.0	1452.4	1453.6	1454.9	1458.7	1456.2	1457.4
40°	1186.2	1182.4	1186.2	1177.4	1174.8	1177.4	1183.7	1192.6	1197.7	1202.7	1211.6
42.5°	902.3	908.7	917.6	917.6	921.3	926.4	934.0	948.0	955.6	964.4	974.6
45°	679.3	686.9	698.3	702.1	704.6	711.0	719.9	731.2	736.3	743.9	752.8
47.5°	523.4	528.5	534.8	541.2	547.5	550.0	558.9	558.9	565.3	570.3	572.8
50°	408.1	413.1	418.2	422.0	424.6	428.4	430.9	434.7	435.9	438.5	439.8
52.5°	319.4	325.7	325.7	328.2	332.0	335.8	334.6	335.8	337.1	337.1	340.9
55°	249.7	249.7	253.5	253.5	256.0	254.7	256.0	256.0	256.0	256.0	257.3
57.5°	186.3	187.6	191.4	188.8	187.6	190.1	187.6	190.1	188.8	191.4	187.6
60°	143.2	143.2	144.5	144.5	145.7	145.7	145.7	144.5	144.5	143.2	143.2
62.5°	107.7	109.0	110.3	109.0	109.0	109.0	107.7	107.7	106.5	105.2	105.2
65°	72.2	71.0	73.5	71.0	72.2	72.2	71.0	72.2	68.4	69.7	68.4
67.5°	52.0	50.7	49.5	50.7	49.5	48.1	48.1	49.5	50.7	46.9	46.9
70°	34.2	35.5	34.2	35.5	36.8	36.8	35.5	34.2	35.5	33.0	34.2
72.5°	21.5	21.5	21.5	21.5	21.5	22.8	22.8	22.8	20.3	20.3	19.0
75°	10.1	13.9	11.4	10.1	13.9	13.9	12.7	12.7	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°	5.1	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: P244540

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSWOH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5
2.5°	2624.7	2623.4	2624.7	2625.9	2624.7	2623.4	2624.7	2625.9	2620.9	2619.6	2622.1
5°	2680.4	2680.4	2682.9	2684.3	2682.9	2680.4	2680.4	2675.4	2671.6	2667.8	2666.5
7.5°	2728.6	2731.1	2733.7	2734.9	2733.7	2731.1	2728.6	2721.0	2713.4	2707.0	2702.0
10°	2757.8	2761.6	2766.6	2769.1	2766.6	2761.6	2757.8	2748.9	2738.7	2728.6	2721.0
12.5°	2770.4	2774.2	2780.5	2779.3	2780.5	2774.2	2770.4	2757.8	2746.3	2732.4	2721.0
15°	2761.6	2766.6	2772.9	2775.5	2772.9	2766.6	2761.6	2748.9	2738.7	2723.5	2712.1
17.5°	2733.7	2741.3	2745.1	2748.9	2745.1	2741.3	2733.7	2723.5	2709.6	2696.9	2685.5
20°	2695.6	2700.7	2705.8	2707.0	2705.8	2700.7	2695.6	2684.3	2662.7	2660.2	2651.3
22.5°	2641.2	2645.0	2656.3	2652.5	2656.3	2645.0	2641.2	2631.0	2623.4	2609.4	2600.6
25°	2562.5	2566.4	2567.7	2568.9	2567.7	2566.4	2562.5	2553.7	2546.1	2535.9	2530.9
27.5°	2427.0	2427.0	2429.5	2430.8	2429.5	2427.0	2427.0	2420.6	2415.5	2410.5	2405.4
30°	2221.7	2221.7	2221.7	2228.0	2221.7	2221.7	2221.7	2220.4	2220.4	2221.7	2221.7
32.5°	1984.7	1982.1	1979.6	1982.1	1979.6	1982.1	1984.7	1985.9	1984.7	1988.5	1994.8
35°	1716.0	1714.7	1718.5	1713.5	1718.5	1714.7	1716.0	1716.0	1721.1	1726.1	1727.4
37.5°	1458.7	1456.2	1461.2	1456.2	1461.2	1456.2	1458.7	1457.4	1456.2	1458.7	1454.9
40°	1214.1	1216.6	1216.6	1226.8	1216.6	1216.6	1214.1	1211.6	1202.7	1197.7	1192.6
42.5°	979.7	987.3	984.7	992.3	984.7	987.3	979.7	974.6	964.4	955.6	948.0
45°	757.9	763.0	763.0	765.5	763.0	763.0	757.9	752.8	743.9	736.3	731.2
47.5°	581.7	581.7	581.7	583.0	581.7	581.7	581.7	572.8	570.3	565.3	558.9
50°	442.3	443.6	444.9	446.1	444.9	443.6	442.3	439.8	438.5	435.9	434.7
52.5°	339.6	340.9	338.4	340.9	338.4	340.9	339.6	340.9	337.1	337.1	335.8
55°	257.3	256.0	257.3	258.5	257.3	256.0	257.3	257.3	256.0	256.0	256.0
57.5°	188.8	186.3	186.3	186.3	186.3	186.3	188.8	187.6	191.4	188.8	190.1
60°	140.7	141.9	141.9	143.2	141.9	141.9	140.7	143.2	143.2	144.5	144.5
62.5°	103.9	107.7	105.2	107.7	105.2	107.7	103.9	105.2	105.2	106.5	107.7
65°	67.2	67.2	67.2	68.4	67.2	67.2	67.2	68.4	69.7	68.4	72.2
67.5°	45.6	46.9	49.5	48.1	49.5	46.9	45.6	46.9	46.9	50.7	49.5
70°	36.8	33.0	33.0	36.8	33.0	33.0	36.8	34.2	33.0	35.5	34.2
72.5°	21.5	19.0	21.5	21.5	21.5	19.0	21.5	19.0	20.3	20.3	22.8
75°	11.4	10.1	8.9	12.7	8.9	10.1	11.4	11.4	11.4	11.4	12.7
77.5°	7.6	6.3	8.9	8.9	8.9	6.3	7.6	6.3	7.6	6.3	7.6
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: P244540

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSWOH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5
2.5°	2622.1	2618.3	2619.6	2612.0	2612.0	2609.4	2610.8	2604.4	2601.9	2599.3	2603.1
5°	2660.2	2653.8	2648.7	2637.4	2631.0	2623.4	2619.6	2609.4	2600.6	2593.0	2591.7
7.5°	2690.6	2676.6	2667.8	2652.5	2641.2	2632.3	2619.6	2605.6	2594.3	2584.1	2576.5
10°	2703.2	2689.3	2675.4	2656.3	2643.7	2627.2	2614.5	2596.8	2581.6	2567.7	2558.7
12.5°	2704.5	2686.8	2674.1	2652.5	2636.1	2618.3	2604.4	2584.1	2566.4	2552.4	2538.5
15°	2693.1	2676.6	2661.4	2638.6	2622.1	2605.6	2589.2	2567.7	2551.2	2534.7	2524.6
17.5°	2667.8	2652.5	2634.8	2613.3	2598.1	2582.8	2565.1	2547.4	2528.3	2510.6	2497.9
20°	2634.8	2618.3	2603.1	2581.6	2568.9	2552.4	2535.9	2517.0	2501.7	2484.0	2470.1
22.5°	2585.4	2570.2	2556.2	2543.6	2523.3	2510.6	2499.2	2477.7	2462.4	2446.0	2430.8
25°	2514.4	2499.2	2487.8	2472.6	2463.7	2449.8	2438.3	2419.4	2405.4	2390.2	2377.5
27.5°	2397.8	2388.9	2382.6	2373.7	2366.1	2359.8	2353.5	2338.2	2328.1	2314.2	2301.5
30°	2222.9	2221.7	2217.8	2214.0	2219.1	2219.1	2219.1	2216.6	2207.7	2197.6	2188.7
32.5°	1998.6	2001.2	2006.2	2010.0	2020.1	2031.6	2041.7	2046.7	2046.7	2040.4	2036.6
35°	1731.2	1735.0	1742.6	1752.7	1765.4	1779.3	1802.1	1807.3	1811.0	1811.0	1805.9
37.5°	1453.6	1452.4	1460.0	1468.9	1476.5	1486.6	1503.1	1506.9	1513.2	1510.7	1505.6
40°	1183.7	1177.4	1174.8	1177.4	1186.2	1182.4	1186.2	1183.7	1183.7	1174.8	1174.8
42.5°	934.0	926.4	921.3	917.6	917.6	908.7	902.3	896.0	892.2	885.9	884.6
45°	719.9	711.0	704.6	702.1	698.3	686.9	679.3	671.7	662.8	660.3	661.6
47.5°	558.9	550.0	547.5	541.2	534.8	528.5	523.4	514.6	513.3	508.2	513.3
50°	430.9	428.4	424.6	422.0	418.2	413.1	408.1	403.0	400.5	400.5	401.7
52.5°	334.6	335.8	332.0	328.2	325.7	325.7	319.4	318.1	318.1	313.0	318.1
55°	256.0	254.7	256.0	253.5	253.5	249.7	249.7	245.9	245.9	242.0	244.6
57.5°	187.6	190.1	187.6	188.8	191.4	187.6	186.3	182.5	185.0	182.5	183.8
60°	145.7	145.7	145.7	144.5	144.5	143.2	143.2	141.9	141.9	139.4	141.9
62.5°	107.7	109.0	109.0	109.0	110.3	109.0	107.7	109.0	107.7	107.7	109.0
65°	71.0	72.2	72.2	71.0	73.5	71.0	72.2	73.5	74.8	73.5	74.8
67.5°	48.1	48.1	49.5	50.7	49.5	50.7	52.0	50.7	52.0	54.5	52.0
70°	35.5	36.8	36.8	35.5	34.2	35.5	34.2	38.0	38.0	38.0	40.5
72.5°	22.8	22.8	21.5	21.5	21.5	21.5	21.5	25.4	22.8	21.5	24.1
75°	12.7	13.9	13.9	10.1	11.4	13.9	10.1	11.4	15.2	12.7	15.2
77.5°	7.6	7.6	7.6	7.6	7.6	7.6	10.1	8.9	8.9	8.9	10.1
80°	6.3	5.1	5.1	3.8	5.1	5.1	5.1	7.6	6.3	6.3	7.6
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: P244540

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSWOH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5
2.5°	2593.0	2593.0	2591.7	2589.2	2584.1	2584.1	2582.8	2579.0	2576.5	2575.2	2575.2
5°	2580.3	2575.2	2570.2	2556.2	2556.2	2553.7	2546.1	2541.0	2538.5	2532.1	2529.6
7.5°	2568.9	2553.7	2544.8	2535.9	2524.6	2519.5	2510.6	2506.8	2497.9	2491.6	2487.8
10°	2541.0	2530.9	2519.5	2505.5	2496.7	2486.5	2476.4	2468.8	2457.4	2451.0	2446.0
12.5°	2522.0	2506.8	2496.7	2481.4	2466.3	2457.4	2443.5	2434.6	2423.2	2410.5	2402.9
15°	2504.3	2487.8	2473.9	2457.4	2440.9	2430.8	2414.3	2404.2	2387.7	2375.0	2366.1
17.5°	2477.7	2463.7	2448.5	2428.2	2413.0	2400.4	2382.6	2370.0	2354.7	2338.2	2329.4
20°	2449.8	2433.3	2418.1	2397.8	2382.6	2367.4	2349.7	2335.7	2317.9	2302.8	2292.6
22.5°	2413.0	2394.0	2381.3	2361.0	2343.3	2326.9	2310.4	2293.9	2277.4	2264.7	2253.3
25°	2359.8	2339.5	2325.6	2309.1	2292.6	2280.0	2259.7	2249.6	2233.1	2221.7	2210.2
27.5°	2283.7	2268.5	2255.9	2239.4	2225.5	2215.3	2200.1	2190.0	2176.0	2165.9	2157.0
30°	2172.3	2159.6	2148.2	2131.7	2121.5	2112.7	2098.7	2089.8	2079.7	2068.3	2065.8
32.5°	2022.7	2012.5	2001.2	1989.7	1982.1	1977.1	1965.6	1960.6	1950.4	1944.1	1937.8
35°	1797.1	1788.2	1781.9	1776.8	1774.3	1775.5	1773.0	1778.1	1780.6	1779.3	1780.6
37.5°	1501.8	1496.7	1499.3	1503.1	1515.8	1532.2	1547.4	1570.2	1585.4	1600.7	1614.6
40°	1172.3	1176.1	1186.2	1209.0	1242.0	1278.8	1313.0	1356.1	1399.2	1429.6	1457.4
42.5°	884.6	896.0	921.3	954.3	1003.8	1058.2	1111.5	1174.8	1226.8	1277.5	1313.0
45°	665.4	680.5	713.5	759.2	813.6	877.0	944.2	1015.1	1077.3	1129.2	1168.5
47.5°	518.4	532.3	565.3	613.4	680.5	746.5	816.2	889.7	954.3	1005.0	1039.2
50°	409.3	427.1	456.2	506.9	574.1	643.8	716.1	788.3	849.1	892.2	922.6
52.5°	321.9	338.4	366.2	419.5	488.0	557.6	624.8	695.8	749.0	790.8	811.1
55°	249.7	264.9	294.0	338.4	403.0	471.5	538.6	599.5	648.9	679.3	698.3
57.5°	190.1	201.5	221.8	266.1	324.5	387.8	444.9	505.7	543.7	565.3	577.9
60°	144.5	153.4	174.9	209.1	262.3	316.8	365.0	410.6	441.1	458.8	471.5
62.5°	109.0	119.1	134.3	163.5	204.0	248.4	288.9	323.2	348.5	359.9	368.8
65°	74.8	82.4	93.8	116.6	150.8	182.5	214.2	239.5	256.0	268.7	273.8
67.5°	55.8	60.8	67.2	84.9	109.0	134.3	155.9	173.6	191.4	196.5	205.3
70°	41.8	45.6	52.0	64.6	78.6	96.3	114.1	124.2	136.9	145.7	148.3
72.5°	26.6	27.9	34.2	41.8	53.2	64.6	76.1	84.9	92.5	97.6	100.1
75°	15.2	22.8	22.8	30.4	38.0	43.1	50.7	57.0	60.8	64.6	64.6
77.5°	10.1	13.9	15.2	19.0	22.8	29.2	35.5	39.3	43.1	44.3	44.3
80°	8.9	10.1	10.1	13.9	16.5	21.5	25.4	26.6	29.2	30.4	33.0
82.5°	3.8	5.1	6.3	10.1	11.4	11.4	15.2	16.5	19.0	20.3	20.3
85°	1.3	2.6	2.6	3.8	6.3	7.6	8.9	10.1	11.4	11.4	12.7
87.5°	1.3	1.3	0.0	1.3	2.6	2.6	5.1	5.1	5.1	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: P244540

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5
2.5°	2572.7	2574.0	2568.9	2567.7	2565.1	2566.4	2568.9
5°	2525.8	2527.1	2522.0	2517.0	2517.0	2515.7	2517.0
7.5°	2481.4	2482.7	2475.1	2472.6	2467.5	2468.8	2468.8
10°	2437.1	2437.1	2425.7	2424.4	2420.6	2419.4	2419.4
12.5°	2394.0	2390.2	2381.3	2376.3	2378.8	2371.2	2371.2
15°	2356.0	2349.7	2338.2	2334.4	2328.1	2325.6	2325.6
17.5°	2316.7	2311.6	2301.5	2293.9	2286.3	2285.0	2286.3
20°	2278.7	2273.6	2260.9	2255.9	2249.6	2249.6	2247.0
22.5°	2240.6	2235.6	2224.2	2220.4	2211.5	2211.5	2212.8
25°	2201.4	2197.6	2184.9	2182.4	2181.1	2176.0	2178.6
27.5°	2148.2	2145.6	2135.5	2131.7	2126.6	2125.4	2127.9
30°	2050.6	2046.7	2039.2	2035.4	2026.5	2027.8	2030.3
32.5°	1928.9	1923.8	1913.7	1909.9	1902.3	1899.7	1901.0
35°	1776.8	1773.0	1764.2	1764.2	1756.5	1754.0	1756.5
37.5°	1622.2	1626.0	1622.2	1626.0	1622.2	1620.9	1622.2
40°	1476.5	1490.4	1492.9	1506.9	1501.8	1509.4	1508.1
42.5°	1337.0	1359.8	1368.8	1380.1	1377.6	1382.7	1386.5
45°	1196.4	1215.4	1224.3	1231.9	1233.1	1235.7	1236.9
47.5°	1063.3	1078.5	1079.8	1088.6	1087.4	1087.4	1091.2
50°	939.1	949.2	951.7	958.1	953.1	950.5	951.7
52.5°	823.8	833.9	831.4	833.9	827.6	825.0	826.3
55°	705.9	711.0	711.0	711.0	703.4	703.4	703.4
57.5°	585.5	586.8	584.2	585.5	584.2	576.6	575.4
60°	475.3	475.3	474.0	475.3	471.5	467.7	467.7
62.5°	371.3	373.9	378.9	373.9	371.3	373.9	370.1
65°	277.6	282.6	281.3	283.9	282.6	282.6	280.1
67.5°	209.1	210.4	211.6	212.9	212.9	212.9	212.9
70°	153.4	157.2	155.9	155.9	155.9	155.9	163.5
72.5°	102.7	107.7	106.5	109.0	109.0	111.5	109.0
75°	69.7	74.8	72.2	76.1	74.8	72.2	78.6
77.5°	46.9	49.5	50.7	52.0	50.7	49.5	50.7
80°	33.0	35.5	34.2	35.5	35.5	35.5	36.8
82.5°	20.3	24.1	22.8	24.1	22.8	24.1	24.1
85°	13.9	15.2	12.7	15.2	13.9	13.9	16.5
87.5°	8.9	7.6	7.6	8.9	7.6	8.9	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)