

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: P244546

Luminaire Tested: **LD8B40D010 ER8B40850 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244546
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 ER8B40850 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4457.0 lumens
Efficiency: N/A
Efficacy: 109.0 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

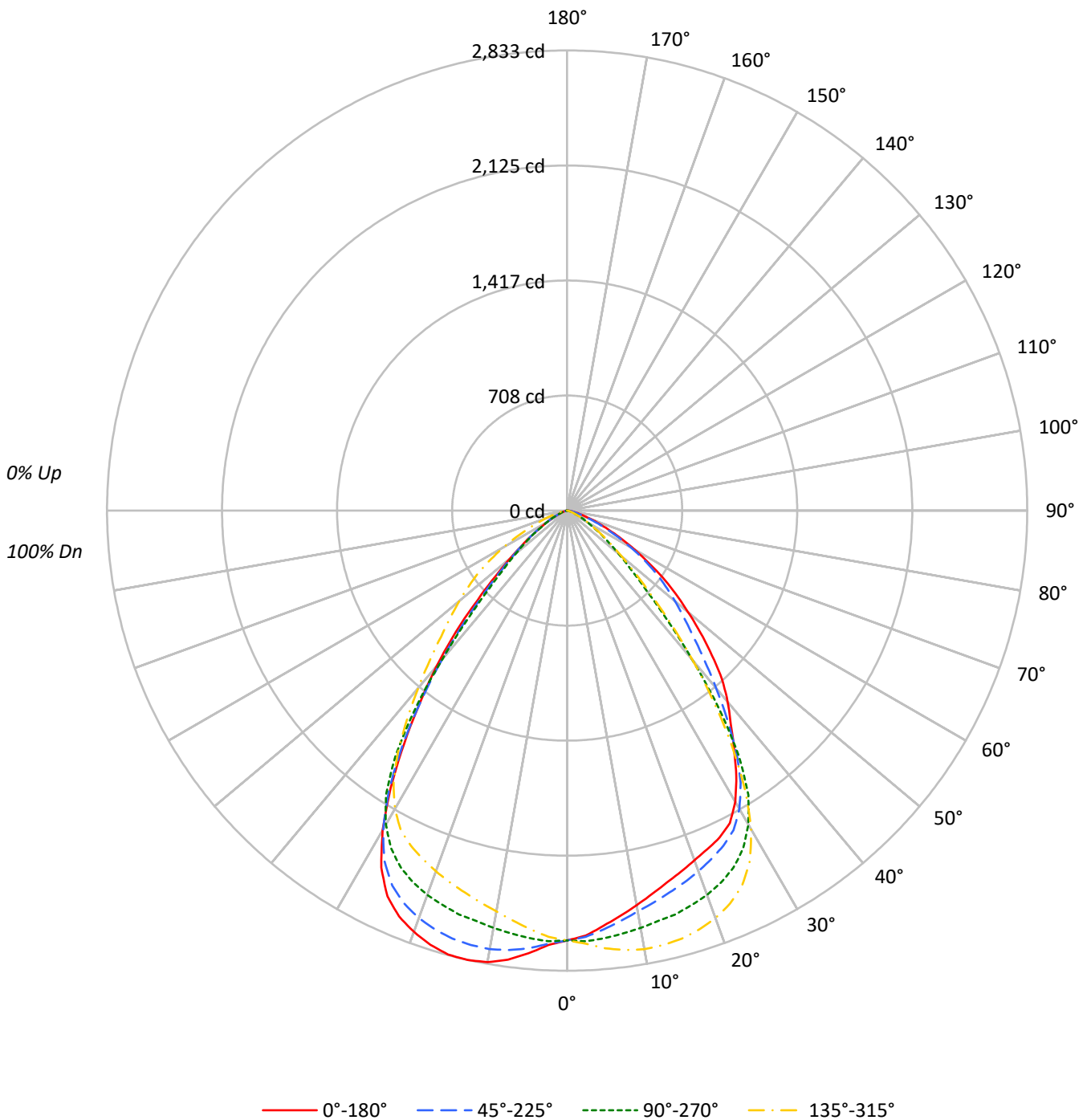
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	81593	81593	81593	81593
5°	79425	81784	84703	81784
10°	77228	81677	88394	81677
15°	75686	82163	90326	82163
20°	75170	82632	90560	82632
25°	75564	82464	89106	82464
30°	73695	79446	80874	79446
35°	67409	69307	65757	69307
40°	61890	48208	50346	48208
45°	54991	29410	34033	29410
50°	46548	19645	21818	19645
55°	38552	13408	14172	13408
60°	29406	8924	9004	8924
65°	20831	5560	5093	5560
70°	15030	3724	3381	3724
75°	9543	1847	1537	1847
80°	6659	1385	1137	1385
85°	5944	0	460	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.8	5.7
10°-20°	729.3	16.4
20°-30°	1104.3	24.8
30°-40°	1106.8	24.8
40°-50°	695.0	15.6
50°-60°	370.4	8.3
60°-70°	152.3	3.4
70°-80°	40.2	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°	2085.5	46.8
0°-40°	3192.3	71.6
0°-60°	4257.7	95.5
0°-90°	4457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4457.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2646	2646	2646	2646	2646	
5°	2566	2642	2736	2642	2566	242
15°	2371	2574	2829	2574	2371	671
25°	2221	2424	2619	2424	2221	1019
35°	1791	1841	1747	1841	1791	1122
45°	1261	674	780	674	1261	970
55°	717	249	264	249	717	639
65°	286	76	70	76	286	296
75°	80	16	13	16	80	91
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°	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0
2.5°	2618.9	2616.3	2615.0	2617.6	2618.9	2624.0	2622.7	2625.3	2625.3	2626.6	2629.2
5°	2565.9	2564.6	2565.9	2565.9	2571.1	2576.2	2574.9	2578.8	2581.4	2587.9	2590.4
7.5°	2516.8	2516.8	2515.5	2520.6	2523.2	2531.0	2529.7	2536.2	2540.0	2546.5	2555.5
10°	2466.4	2466.4	2467.7	2471.6	2472.9	2484.5	2484.5	2493.5	2498.7	2505.2	2516.8
12.5°	2417.3	2417.3	2425.1	2422.5	2427.6	2436.7	2440.5	2449.6	2457.4	2470.3	2481.9
15°	2370.8	2370.8	2373.4	2379.8	2383.7	2395.3	2401.8	2412.2	2421.2	2434.1	2450.9
17.5°	2330.7	2329.5	2330.7	2338.5	2346.3	2356.6	2361.7	2374.7	2383.7	2400.5	2416.0
20°	2290.7	2293.3	2293.3	2299.7	2304.9	2317.8	2323.0	2337.2	2347.5	2363.0	2381.1
22.5°	2255.8	2254.5	2254.5	2263.6	2267.5	2279.0	2284.2	2297.1	2308.8	2321.7	2338.5
25°	2220.9	2218.3	2223.5	2224.8	2227.4	2240.3	2244.2	2253.2	2264.8	2276.5	2293.3
27.5°	2169.2	2166.7	2168.0	2173.1	2177.0	2187.3	2189.9	2199.0	2208.0	2218.3	2232.6
30°	2069.7	2067.2	2065.9	2074.9	2078.8	2086.5	2090.4	2105.9	2108.5	2120.1	2130.5
32.5°	1938.0	1936.7	1939.3	1947.0	1950.9	1961.2	1966.4	1975.4	1981.9	1988.4	1998.7
35°	1790.7	1788.1	1790.7	1798.5	1798.5	1807.5	1811.4	1815.2	1813.9	1815.2	1812.7
37.5°	1653.8	1652.4	1653.8	1657.6	1653.8	1657.6	1653.8	1646.0	1631.8	1616.3	1600.7
40°	1537.5	1538.7	1531.0	1536.2	1521.9	1519.4	1505.2	1485.8	1457.4	1426.4	1382.4
42.5°	1413.4	1409.6	1404.4	1407.0	1395.4	1386.3	1363.0	1338.5	1302.3	1250.7	1197.6
45°	1261.0	1259.7	1257.1	1255.8	1248.1	1239.0	1219.6	1191.2	1151.2	1098.2	1034.9
47.5°	1112.4	1108.5	1108.5	1109.8	1100.8	1099.5	1083.9	1059.4	1024.5	972.9	907.0
50°	970.3	969.0	971.6	976.7	970.3	967.7	957.4	940.6	909.6	865.6	803.6
52.5°	842.4	841.1	843.7	850.1	847.5	850.1	839.8	826.9	806.2	763.5	709.3
55°	717.1	717.1	717.1	724.8	724.8	724.8	719.6	711.9	692.5	661.5	611.1
57.5°	586.6	587.8	595.6	596.9	595.6	598.2	596.9	589.1	576.2	554.3	515.5
60°	476.8	476.8	480.6	484.5	483.2	484.5	484.5	480.6	467.7	449.6	418.6
62.5°	377.3	381.1	378.5	381.1	386.3	381.1	378.5	376.0	366.9	355.3	329.4
65°	285.5	288.1	288.1	289.4	286.8	288.1	283.0	279.1	273.9	261.0	244.2
67.5°	217.1	217.1	217.1	217.1	215.7	214.5	213.2	209.3	200.3	195.1	177.0
70°	166.7	158.9	158.9	158.9	158.9	160.2	156.3	151.2	148.6	139.5	126.6
72.5°	111.1	113.7	111.1	111.1	108.5	109.8	104.7	102.1	99.5	94.3	86.6
75°	80.1	73.7	76.2	77.5	73.7	76.2	71.0	65.9	65.9	62.0	58.1
77.5°	51.7	50.4	51.7	53.0	51.7	50.4	47.8	45.2	45.2	43.9	40.0
80°	37.5	36.2	36.2	36.2	34.9	36.2	33.6	33.6	31.0	29.7	27.1
82.5°	24.6	24.6	23.2	24.6	23.2	24.6	20.7	20.7	20.7	19.4	16.8
85°	16.8	14.2	14.2	15.5	12.9	15.5	14.2	12.9	11.6	11.6	10.3
87.5°	7.8	9.0	7.8	9.0	7.8	7.8	9.0	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0
2.5°	2633.1	2634.3	2634.3	2639.5	2642.1	2643.4	2643.4	2653.7	2649.9	2652.5	2655.0
5°	2595.6	2603.3	2605.9	2605.9	2620.1	2625.3	2630.5	2642.1	2643.4	2651.1	2660.2
7.5°	2559.4	2568.4	2573.7	2585.2	2594.3	2603.3	2618.9	2626.6	2634.3	2644.7	2656.3
10°	2524.5	2534.9	2545.2	2554.2	2568.4	2580.1	2590.4	2608.5	2617.6	2631.8	2647.3
12.5°	2491.0	2505.2	2514.2	2529.7	2545.2	2555.5	2571.1	2587.9	2602.1	2616.3	2634.3
15°	2461.2	2478.0	2488.4	2505.2	2522.0	2536.2	2553.0	2573.7	2584.0	2600.8	2617.6
17.5°	2428.9	2447.0	2460.0	2475.4	2496.1	2511.6	2525.8	2546.5	2559.4	2577.5	2596.9
20°	2395.3	2413.4	2428.9	2444.4	2465.1	2480.6	2497.4	2518.1	2532.3	2550.4	2565.9
22.5°	2355.3	2372.1	2388.9	2406.9	2427.6	2440.5	2460.0	2478.0	2493.5	2510.3	2525.8
25°	2303.6	2324.3	2337.2	2354.0	2370.8	2385.0	2405.7	2423.7	2436.7	2452.2	2466.4
27.5°	2242.9	2258.4	2268.7	2282.9	2299.7	2312.7	2328.1	2346.3	2359.2	2373.4	2383.7
30°	2139.5	2153.8	2162.8	2173.1	2189.9	2201.6	2214.5	2231.2	2240.3	2250.6	2259.7
32.5°	2003.8	2015.5	2020.6	2028.4	2040.1	2051.7	2062.0	2076.2	2080.1	2086.5	2086.5
35°	1807.5	1810.1	1808.8	1811.4	1816.5	1823.0	1832.0	1841.1	1846.2	1846.2	1842.4
37.5°	1577.5	1562.0	1545.2	1532.3	1528.4	1525.8	1531.0	1534.9	1540.1	1542.6	1536.2
40°	1338.5	1303.6	1266.1	1232.5	1209.3	1199.0	1195.1	1197.6	1197.6	1206.7	1206.7
42.5°	1133.1	1078.8	1023.3	972.9	939.2	913.5	901.8	901.8	903.1	909.6	913.5
45°	962.5	894.0	829.4	773.9	727.4	693.8	678.3	674.4	673.1	675.7	684.7
47.5°	832.0	761.0	693.8	625.3	576.2	542.6	528.4	523.2	518.1	523.2	524.6
50°	730.0	656.3	585.3	516.8	465.1	435.4	417.3	409.5	408.3	408.3	410.9
52.5°	636.9	568.5	497.4	427.7	373.4	345.0	328.2	324.3	319.1	324.3	324.3
55°	549.1	480.6	410.9	345.0	299.7	270.0	254.5	249.4	246.8	250.6	250.6
57.5°	453.5	395.3	330.8	271.3	226.1	205.4	193.8	187.4	186.0	188.6	186.0
60°	372.1	323.0	267.4	213.2	178.3	156.3	147.3	144.7	142.1	144.7	144.7
62.5°	294.6	253.2	208.0	166.7	136.9	121.5	111.1	111.1	109.8	109.8	111.1
65°	218.4	186.0	153.7	118.9	95.6	84.0	76.2	76.2	74.9	76.2	74.9
67.5°	158.9	136.9	111.1	86.6	68.5	62.0	56.8	53.0	55.6	53.0	51.7
70°	116.3	98.2	80.1	65.9	53.0	46.5	42.6	41.3	38.8	38.8	38.8
72.5°	77.5	65.9	54.2	42.6	34.9	28.4	27.1	24.6	22.0	23.2	25.8
75°	51.7	43.9	38.8	31.0	23.2	23.2	15.5	15.5	12.9	15.5	11.6
77.5°	36.2	29.7	23.2	19.4	15.5	14.2	10.3	10.3	9.0	9.0	9.0
80°	25.8	22.0	16.8	14.2	10.3	10.3	9.0	7.8	6.4	6.4	7.8
82.5°	15.5	11.6	11.6	10.3	6.4	5.2	3.9	5.2	2.6	2.6	2.6
85°	9.0	7.8	6.4	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0
2.5°	2661.5	2660.2	2662.8	2662.8	2670.5	2669.2	2673.1	2673.1	2670.5	2671.8	2677.0
5°	2670.5	2674.4	2682.1	2688.6	2700.2	2705.4	2711.9	2718.4	2719.6	2723.5	2727.4
7.5°	2670.5	2683.5	2692.5	2704.1	2719.6	2728.7	2742.9	2754.5	2759.7	2766.1	2773.9
10°	2665.3	2678.3	2695.1	2708.0	2727.4	2741.6	2755.8	2773.9	2781.6	2792.0	2802.3
12.5°	2655.0	2669.2	2687.3	2704.1	2726.1	2739.0	2757.1	2773.9	2785.5	2799.7	2811.4
15°	2639.5	2656.3	2673.1	2689.9	2713.1	2728.7	2745.5	2764.8	2776.5	2792.0	2802.3
17.5°	2615.0	2633.1	2648.6	2664.1	2686.0	2704.1	2719.6	2737.7	2749.4	2762.3	2776.5
20°	2585.2	2602.1	2618.9	2631.8	2653.7	2669.2	2686.0	2702.8	2711.9	2714.5	2736.4
22.5°	2547.8	2559.4	2572.3	2593.0	2605.9	2620.1	2635.7	2651.1	2660.2	2674.4	2682.1
25°	2485.8	2497.4	2511.6	2520.6	2536.2	2547.8	2563.3	2580.1	2585.2	2595.6	2603.3
27.5°	2399.2	2405.7	2412.2	2419.9	2428.9	2435.4	2444.4	2452.2	2457.4	2462.5	2467.7
30°	2262.2	2262.2	2262.2	2257.1	2261.0	2264.8	2266.1	2264.8	2264.8	2263.6	2263.6
32.5°	2081.4	2071.1	2059.4	2049.1	2045.2	2040.1	2037.5	2033.6	2027.1	2023.3	2024.5
35°	1837.2	1813.9	1799.7	1786.8	1776.5	1768.7	1764.9	1761.0	1759.7	1754.5	1749.3
37.5°	1532.3	1515.5	1505.2	1497.4	1488.4	1480.6	1481.9	1483.2	1487.0	1484.5	1485.8
40°	1209.3	1205.4	1209.3	1200.3	1197.6	1200.3	1206.7	1215.8	1220.9	1226.1	1235.1
42.5°	919.9	926.3	935.4	935.4	939.2	944.5	952.2	966.4	974.1	983.2	993.5
45°	692.5	700.3	711.9	715.7	718.3	724.8	733.9	745.5	750.6	758.4	767.4
47.5°	533.6	538.8	545.2	551.7	558.1	560.7	569.8	569.8	576.2	581.4	584.0
50°	416.0	421.2	426.3	430.2	432.8	436.7	439.3	443.1	444.4	447.0	448.3
52.5°	325.6	332.1	332.1	334.6	338.5	342.4	341.1	342.4	343.6	343.6	347.5
55°	254.5	254.5	258.4	258.4	261.0	259.7	261.0	261.0	261.0	261.0	262.3
57.5°	189.9	191.2	195.1	192.5	191.2	193.8	191.2	193.8	192.5	195.1	191.2
60°	146.0	146.0	147.3	147.3	148.6	148.6	148.6	147.3	147.3	146.0	146.0
62.5°	109.8	111.1	112.4	111.1	111.1	111.1	109.8	109.8	108.5	107.2	107.2
65°	73.7	72.4	74.9	72.4	73.7	73.7	72.4	73.7	69.8	71.0	69.8
67.5°	53.0	51.7	50.4	51.7	50.4	49.1	49.1	50.4	51.7	47.8	47.8
70°	34.9	36.2	34.9	36.2	37.5	37.5	36.2	34.9	36.2	33.6	34.9
72.5°	22.0	22.0	22.0	22.0	22.0	23.2	23.2	23.2	20.7	20.7	19.4
75°	10.3	14.2	11.6	10.3	14.2	14.2	12.9	12.9	11.6	11.6	11.6
77.5°	10.3	7.8	7.8	7.8	7.8	7.8	7.8	7.8	6.4	7.8	6.4
80°	5.2	5.2	5.2	3.9	5.2	5.2	6.4	5.2	5.2	3.9	6.4
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: P244546

CATALOG NUMBER: LD8B40D010 ER8B40850 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0
2.5°	2675.7	2674.4	2675.7	2677.0	2675.7	2674.4	2675.7	2677.0	2671.8	2670.5	2673.1
5°	2732.6	2732.6	2735.1	2736.4	2735.1	2732.6	2732.6	2727.4	2723.5	2719.6	2718.4
7.5°	2781.6	2784.2	2786.8	2788.1	2786.8	2784.2	2781.6	2773.9	2766.1	2759.7	2754.5
10°	2811.4	2815.2	2820.4	2823.0	2820.4	2815.2	2811.4	2802.3	2792.0	2781.6	2773.9
12.5°	2824.3	2828.2	2834.6	2833.3	2834.6	2828.2	2824.3	2811.4	2799.7	2785.5	2773.9
15°	2815.2	2820.4	2826.8	2829.4	2826.8	2820.4	2815.2	2802.3	2792.0	2776.5	2764.8
17.5°	2786.8	2794.6	2798.4	2802.3	2798.4	2794.6	2786.8	2776.5	2762.3	2749.4	2737.7
20°	2748.0	2753.2	2758.4	2759.7	2758.4	2753.2	2748.0	2736.4	2714.5	2711.9	2702.8
22.5°	2692.5	2696.4	2708.0	2704.1	2708.0	2696.4	2692.5	2682.1	2674.4	2660.2	2651.1
25°	2612.4	2616.3	2617.6	2618.9	2617.6	2616.3	2612.4	2603.3	2595.6	2585.2	2580.1
27.5°	2474.2	2474.2	2476.7	2478.0	2476.7	2474.2	2474.2	2467.7	2462.5	2457.4	2452.2
30°	2264.8	2264.8	2264.8	2271.3	2264.8	2264.8	2264.8	2263.6	2263.6	2264.8	2264.8
32.5°	2023.3	2020.6	2018.1	2020.6	2018.1	2020.6	2023.3	2024.5	2023.3	2027.1	2033.6
35°	1749.3	1748.1	1751.9	1746.8	1751.9	1748.1	1749.3	1749.3	1754.5	1759.7	1761.0
37.5°	1487.0	1484.5	1489.7	1484.5	1489.7	1484.5	1487.0	1485.8	1484.5	1487.0	1483.2
40°	1237.7	1240.3	1240.3	1250.7	1240.3	1240.3	1237.7	1235.1	1226.1	1220.9	1215.8
42.5°	998.7	1006.5	1003.9	1011.6	1003.9	1006.5	998.7	993.5	983.2	974.1	966.4
45°	772.6	777.8	777.8	780.4	777.8	777.8	772.6	767.4	758.4	750.6	745.5
47.5°	593.0	593.0	593.0	594.3	593.0	593.0	593.0	584.0	581.4	576.2	569.8
50°	450.9	452.2	453.5	454.8	453.5	452.2	450.9	448.3	447.0	444.4	443.1
52.5°	346.2	347.5	345.0	347.5	345.0	347.5	346.2	347.5	343.6	343.6	342.4
55°	262.3	261.0	262.3	263.6	262.3	261.0	262.3	262.3	261.0	261.0	261.0
57.5°	192.5	189.9	189.9	189.9	189.9	189.9	192.5	191.2	195.1	192.5	193.8
60°	143.4	144.7	144.7	146.0	144.7	144.7	143.4	146.0	146.0	147.3	147.3
62.5°	105.9	109.8	107.2	109.8	107.2	109.8	105.9	107.2	107.2	108.5	109.8
65°	68.5	68.5	68.5	69.8	68.5	68.5	68.5	69.8	71.0	69.8	73.7
67.5°	46.5	47.8	50.4	49.1	50.4	47.8	46.5	47.8	47.8	51.7	50.4
70°	37.5	33.6	33.6	37.5	33.6	33.6	37.5	34.9	33.6	36.2	34.9
72.5°	22.0	19.4	22.0	22.0	22.0	19.4	22.0	19.4	20.7	20.7	23.2
75°	11.6	10.3	9.0	12.9	9.0	10.3	11.6	11.6	11.6	11.6	12.9
77.5°	7.8	6.4	9.0	9.0	9.0	6.4	7.8	6.4	7.8	6.4	7.8
80°	3.9	5.2	3.9	6.4	3.9	5.2	3.9	6.4	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: P244546

CATALOG NUMBER: LD8B40D010 ER8B40850 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0
2.5°	2673.1	2669.2	2670.5	2662.8	2662.8	2660.2	2661.5	2655.0	2652.5	2649.9	2653.7
5°	2711.9	2705.4	2700.2	2688.6	2682.1	2674.4	2670.5	2660.2	2651.1	2643.4	2642.1
7.5°	2742.9	2728.7	2719.6	2704.1	2692.5	2683.5	2670.5	2656.3	2644.7	2634.3	2626.6
10°	2755.8	2741.6	2727.4	2708.0	2695.1	2678.3	2665.3	2647.3	2631.8	2617.6	2608.5
12.5°	2757.1	2739.0	2726.1	2704.1	2687.3	2669.2	2655.0	2634.3	2616.3	2602.1	2587.9
15°	2745.5	2728.7	2713.1	2689.9	2673.1	2656.3	2639.5	2617.6	2600.8	2584.0	2573.7
17.5°	2719.6	2704.1	2686.0	2664.1	2648.6	2633.1	2615.0	2596.9	2577.5	2559.4	2546.5
20°	2686.0	2669.2	2653.7	2631.8	2618.9	2602.1	2585.2	2565.9	2550.4	2532.3	2518.1
22.5°	2635.7	2620.1	2605.9	2593.0	2572.3	2559.4	2547.8	2525.8	2510.3	2493.5	2478.0
25°	2563.3	2547.8	2536.2	2520.6	2511.6	2497.4	2485.8	2466.4	2452.2	2436.7	2423.7
27.5°	2444.4	2435.4	2428.9	2419.9	2412.2	2405.7	2399.2	2383.7	2373.4	2359.2	2346.3
30°	2266.1	2264.8	2261.0	2257.1	2262.2	2262.2	2262.2	2259.7	2250.6	2240.3	2231.2
32.5°	2037.5	2040.1	2045.2	2049.1	2059.4	2071.1	2081.4	2086.5	2086.5	2080.1	2076.2
35°	1764.9	1768.7	1776.5	1786.8	1799.7	1813.9	1837.2	1842.4	1846.2	1846.2	1841.1
37.5°	1481.9	1480.6	1488.4	1497.4	1505.2	1515.5	1532.3	1536.2	1542.6	1540.1	1534.9
40°	1206.7	1200.3	1197.6	1200.3	1209.3	1205.4	1209.3	1206.7	1206.7	1197.6	1197.6
42.5°	952.2	944.5	939.2	935.4	935.4	926.3	919.9	913.5	909.6	903.1	901.8
45°	733.9	724.8	718.3	715.7	711.9	700.3	692.5	684.7	675.7	673.1	674.4
47.5°	569.8	560.7	558.1	551.7	545.2	538.8	533.6	524.6	523.2	518.1	523.2
50°	439.3	436.7	432.8	430.2	426.3	421.2	416.0	410.9	408.3	408.3	409.5
52.5°	341.1	342.4	338.5	334.6	332.1	332.1	325.6	324.3	324.3	319.1	324.3
55°	261.0	259.7	261.0	258.4	258.4	254.5	254.5	250.6	250.6	246.8	249.4
57.5°	191.2	193.8	191.2	192.5	195.1	191.2	189.9	186.0	188.6	186.0	187.4
60°	148.6	148.6	148.6	147.3	147.3	146.0	146.0	144.7	144.7	142.1	144.7
62.5°	109.8	111.1	111.1	111.1	112.4	111.1	109.8	111.1	109.8	109.8	111.1
65°	72.4	73.7	73.7	72.4	74.9	72.4	73.7	74.9	76.2	74.9	76.2
67.5°	49.1	49.1	50.4	51.7	50.4	51.7	53.0	51.7	53.0	55.6	53.0
70°	36.2	37.5	37.5	36.2	34.9	36.2	34.9	38.8	38.8	38.8	41.3
72.5°	23.2	23.2	22.0	22.0	22.0	22.0	22.0	25.8	23.2	22.0	24.6
75°	12.9	14.2	14.2	10.3	11.6	14.2	10.3	11.6	15.5	12.9	15.5
77.5°	7.8	7.8	7.8	7.8	7.8	7.8	10.3	9.0	9.0	9.0	10.3
80°	6.4	5.2	5.2	3.9	5.2	5.2	5.2	7.8	6.4	6.4	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: P244546

CATALOG NUMBER: LD8B40D010 ER8B40850 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0
2.5°	2643.4	2643.4	2642.1	2639.5	2634.3	2634.3	2633.1	2629.2	2626.6	2625.3	2625.3
5°	2630.5	2625.3	2620.1	2605.9	2605.9	2603.3	2595.6	2590.4	2587.9	2581.4	2578.8
7.5°	2618.9	2603.3	2594.3	2585.2	2573.7	2568.4	2559.4	2555.5	2546.5	2540.0	2536.2
10°	2590.4	2580.1	2568.4	2554.2	2545.2	2534.9	2524.5	2516.8	2505.2	2498.7	2493.5
12.5°	2571.1	2555.5	2545.2	2529.7	2514.2	2505.2	2491.0	2481.9	2470.3	2457.4	2449.6
15°	2553.0	2536.2	2522.0	2505.2	2488.4	2478.0	2461.2	2450.9	2434.1	2421.2	2412.2
17.5°	2525.8	2511.6	2496.1	2475.4	2460.0	2447.0	2428.9	2416.0	2400.5	2383.7	2374.7
20°	2497.4	2480.6	2465.1	2444.4	2428.9	2413.4	2395.3	2381.1	2363.0	2347.5	2337.2
22.5°	2460.0	2440.5	2427.6	2406.9	2388.9	2372.1	2355.3	2338.5	2321.7	2308.8	2297.1
25°	2405.7	2385.0	2370.8	2354.0	2337.2	2324.3	2303.6	2293.3	2276.5	2264.8	2253.2
27.5°	2328.1	2312.7	2299.7	2282.9	2268.7	2258.4	2242.9	2232.6	2218.3	2208.0	2199.0
30°	2214.5	2201.6	2189.9	2173.1	2162.8	2153.8	2139.5	2130.5	2120.1	2108.5	2105.9
32.5°	2062.0	2051.7	2040.1	2028.4	2020.6	2015.5	2003.8	1998.7	1988.4	1981.9	1975.4
35°	1832.0	1823.0	1816.5	1811.4	1808.8	1810.1	1807.5	1812.7	1815.2	1813.9	1815.2
37.5°	1531.0	1525.8	1528.4	1532.3	1545.2	1562.0	1577.5	1600.7	1616.3	1631.8	1646.0
40°	1195.1	1199.0	1209.3	1232.5	1266.1	1303.6	1338.5	1382.4	1426.4	1457.4	1485.8
42.5°	901.8	913.5	939.2	972.9	1023.3	1078.8	1133.1	1197.6	1250.7	1302.3	1338.5
45°	678.3	693.8	727.4	773.9	829.4	894.0	962.5	1034.9	1098.2	1151.2	1191.2
47.5°	528.4	542.6	576.2	625.3	693.8	761.0	832.0	907.0	972.9	1024.5	1059.4
50°	417.3	435.4	465.1	516.8	585.3	656.3	730.0	803.6	865.6	909.6	940.6
52.5°	328.2	345.0	373.4	427.7	497.4	568.5	636.9	709.3	763.5	806.2	826.9
55°	254.5	270.0	299.7	345.0	410.9	480.6	549.1	611.1	661.5	692.5	711.9
57.5°	193.8	205.4	226.1	271.3	330.8	395.3	453.5	515.5	554.3	576.2	589.1
60°	147.3	156.3	178.3	213.2	267.4	323.0	372.1	418.6	449.6	467.7	480.6
62.5°	111.1	121.5	136.9	166.7	208.0	253.2	294.6	329.4	355.3	366.9	376.0
65°	76.2	84.0	95.6	118.9	153.7	186.0	218.4	244.2	261.0	273.9	279.1
67.5°	56.8	62.0	68.5	86.6	111.1	136.9	158.9	177.0	195.1	200.3	209.3
70°	42.6	46.5	53.0	65.9	80.1	98.2	116.3	126.6	139.5	148.6	151.2
72.5°	27.1	28.4	34.9	42.6	54.2	65.9	77.5	86.6	94.3	99.5	102.1
75°	15.5	23.2	23.2	31.0	38.8	43.9	51.7	58.1	62.0	65.9	65.9
77.5°	10.3	14.2	15.5	19.4	23.2	29.7	36.2	40.0	43.9	45.2	45.2
80°	9.0	10.3	10.3	14.2	16.8	22.0	25.8	27.1	29.7	31.0	33.6
82.5°	3.9	5.2	6.4	10.3	11.6	11.6	15.5	16.8	19.4	20.7	20.7
85°	1.3	2.6	2.6	3.9	6.4	7.8	9.0	10.3	11.6	11.6	12.9
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: P244546

CATALOG NUMBER: LD8B40D010 ER8B40850 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0	2646.0
2.5°	2622.7	2624.0	2618.9	2617.6	2615.0	2616.3	2618.9
5°	2574.9	2576.2	2571.1	2565.9	2565.9	2564.6	2565.9
7.5°	2529.7	2531.0	2523.2	2520.6	2515.5	2516.8	2516.8
10°	2484.5	2484.5	2472.9	2471.6	2467.7	2466.4	2466.4
12.5°	2440.5	2436.7	2427.6	2422.5	2425.1	2417.3	2417.3
15°	2401.8	2395.3	2383.7	2379.8	2373.4	2370.8	2370.8
17.5°	2361.7	2356.6	2346.3	2338.5	2330.7	2329.5	2330.7
20°	2323.0	2317.8	2304.9	2299.7	2293.3	2293.3	2290.7
22.5°	2284.2	2279.0	2267.5	2263.6	2254.5	2254.5	2255.8
25°	2244.2	2240.3	2227.4	2224.8	2223.5	2218.3	2220.9
27.5°	2189.9	2187.3	2177.0	2173.1	2168.0	2166.7	2169.2
30°	2090.4	2086.5	2078.8	2074.9	2065.9	2067.2	2069.7
32.5°	1966.4	1961.2	1950.9	1947.0	1939.3	1936.7	1938.0
35°	1811.4	1807.5	1798.5	1798.5	1790.7	1788.1	1790.7
37.5°	1653.8	1657.6	1653.8	1657.6	1653.8	1652.4	1653.8
40°	1505.2	1519.4	1521.9	1536.2	1531.0	1538.7	1537.5
42.5°	1363.0	1386.3	1395.4	1407.0	1404.4	1409.6	1413.4
45°	1219.6	1239.0	1248.1	1255.8	1257.1	1259.7	1261.0
47.5°	1083.9	1099.5	1100.8	1109.8	1108.5	1108.5	1112.4
50°	957.4	967.7	970.3	976.7	971.6	969.0	970.3
52.5°	839.8	850.1	847.5	850.1	843.7	841.1	842.4
55°	719.6	724.8	724.8	724.8	717.1	717.1	717.1
57.5°	596.9	598.2	595.6	596.9	595.6	587.8	586.6
60°	484.5	484.5	483.2	484.5	480.6	476.8	476.8
62.5°	378.5	381.1	386.3	381.1	378.5	381.1	377.3
65°	283.0	288.1	286.8	289.4	288.1	288.1	285.5
67.5°	213.2	214.5	215.7	217.1	217.1	217.1	217.1
70°	156.3	160.2	158.9	158.9	158.9	158.9	166.7
72.5°	104.7	109.8	108.5	111.1	111.1	113.7	111.1
75°	71.0	76.2	73.7	77.5	76.2	73.7	80.1
77.5°	47.8	50.4	51.7	53.0	51.7	50.4	51.7
80°	33.6	36.2	34.9	36.2	36.2	36.2	37.5
82.5°	20.7	24.6	23.2	24.6	23.2	24.6	24.6
85°	14.2	15.5	12.9	15.5	14.2	14.2	16.8
87.5°	9.0	7.8	7.8	9.0	7.8	9.0	7.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)