

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: P244960

Luminaire Tested: **LD8B40D010 ER8B40830 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244960
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 ER8B40830 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4195.0 lumens
Efficiency: N/A
Efficacy: 102.6 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

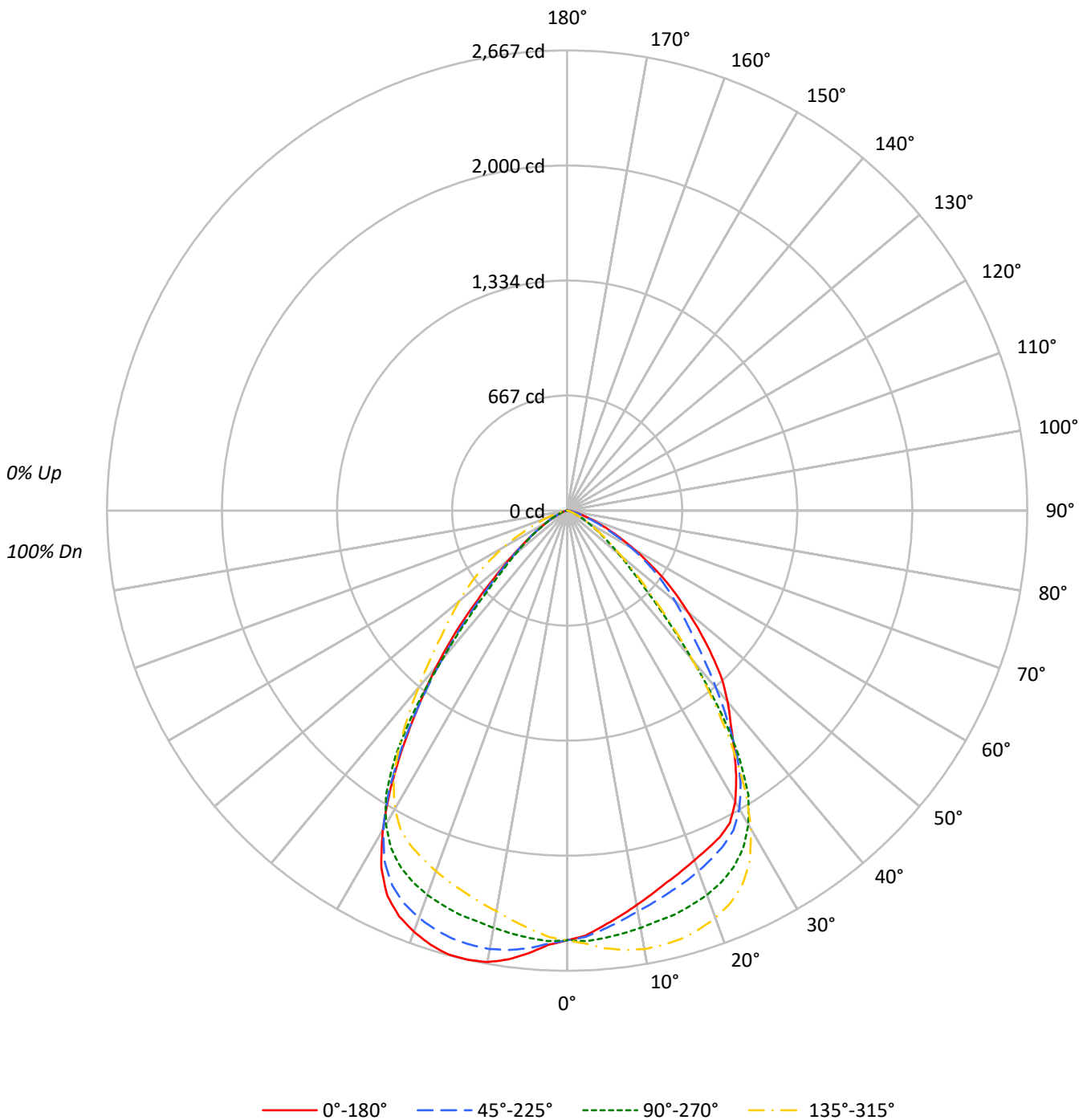
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	76795	76795	76795	76795
5°	74757	76977	79725	76977
10°	72688	76877	83196	76877
15°	71235	77333	85017	77333
20°	70750	77776	85238	77776
25°	71124	77619	83866	77619
30°	69365	74778	76120	74778
35°	63446	65230	61891	65230
40°	58251	45374	47383	45374
45°	51760	27683	32031	27683
50°	43809	18494	20537	18494
55°	36284	12618	13338	12618
60°	27673	8400	8474	8400
65°	19606	5232	4794	5232
70°	14146	3507	3183	3507
75°	8983	1739	1454	1739
80°	6269	1296	1083	1296
85°	5590	0	425	0



TEST NUMBER: P244960

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.0	5.7
10°-20°	686.4	16.4
20°-30°	1039.4	24.8
30°-40°	1041.7	24.8
40°-50°	654.2	15.6
50°-60°	348.6	8.3
60°-70°	143.4	3.4
70°-80°	37.9	0.9
80°-90°	6.4	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°	1962.9	46.8
0°-40°	3004.6	71.6
0°-60°	4007.4	95.5
0°-90°	4195.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4195.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2490	2490	2490	2490	2490	
5°	2415	2487	2576	2487	2415	228
15°	2231	2422	2663	2422	2231	631
25°	2090	2281	2465	2281	2090	959
35°	1685	1733	1644	1733	1685	1056
45°	1187	635	734	635	1187	913
55°	675	235	248	235	675	602
65°	269	72	66	72	269	279
75°	75	15	12	15	75	85
85°	16	0	1	0	16	17
90°	0	0	0	0	0	



TEST NUMBER: P244960

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4
2.5°	2464.9	2462.5	2461.3	2463.7	2464.9	2469.8	2468.6	2471.0	2471.0	2472.2	2474.6
5°	2415.1	2413.8	2415.1	2415.1	2419.9	2424.8	2423.6	2427.2	2429.6	2435.7	2438.1
7.5°	2368.9	2368.9	2367.6	2372.5	2374.9	2382.2	2381.0	2387.1	2390.7	2396.8	2405.3
10°	2321.4	2321.4	2322.6	2326.3	2327.5	2338.4	2338.4	2346.9	2351.8	2357.9	2368.9
12.5°	2275.2	2275.2	2282.5	2280.1	2284.9	2293.4	2297.1	2305.6	2312.9	2325.1	2336.0
15°	2231.4	2231.4	2233.9	2239.9	2243.6	2254.5	2260.6	2270.4	2278.9	2291.0	2306.8
17.5°	2193.7	2192.5	2193.7	2201.0	2208.3	2218.1	2222.9	2235.1	2243.6	2259.4	2274.0
20°	2156.0	2158.5	2158.5	2164.5	2169.4	2181.6	2186.4	2199.8	2209.5	2224.1	2241.2
22.5°	2123.2	2122.0	2122.0	2130.5	2134.2	2145.1	2149.9	2162.1	2173.1	2185.2	2201.0
25°	2090.4	2087.9	2092.8	2094.0	2096.4	2108.6	2112.2	2120.7	2131.7	2142.7	2158.5
27.5°	2041.7	2039.3	2040.5	2045.4	2049.0	2058.7	2061.2	2069.7	2078.2	2087.9	2101.3
30°	1948.1	1945.7	1944.5	1953.0	1956.6	1963.9	1967.5	1982.2	1984.6	1995.5	2005.2
32.5°	1824.0	1822.8	1825.3	1832.5	1836.2	1846.0	1850.8	1859.3	1865.4	1871.5	1881.2
35°	1685.4	1683.0	1685.4	1692.7	1692.7	1701.3	1704.9	1708.5	1707.3	1708.5	1706.1
37.5°	1556.5	1555.3	1556.5	1560.2	1556.5	1560.2	1556.5	1549.2	1535.9	1521.3	1506.6
40°	1447.1	1448.3	1441.0	1445.9	1432.5	1430.1	1416.7	1398.4	1371.7	1342.5	1301.2
42.5°	1330.4	1326.7	1321.9	1324.3	1313.3	1304.8	1282.9	1259.8	1225.7	1177.1	1127.2
45°	1186.9	1185.7	1183.2	1182.0	1174.7	1166.2	1147.9	1121.2	1083.5	1033.6	974.0
47.5°	1047.0	1043.4	1043.4	1044.6	1036.0	1034.8	1020.2	997.2	964.3	915.7	853.7
50°	913.2	912.0	914.5	919.3	913.2	910.8	901.1	885.3	856.1	814.8	756.4
52.5°	792.8	791.6	794.1	800.1	797.7	800.1	790.4	778.3	758.8	718.7	667.6
55°	674.9	674.9	674.9	682.2	682.2	682.2	677.3	670.1	651.8	622.6	575.2
57.5°	552.1	553.3	560.6	561.8	560.6	563.0	561.8	554.5	542.4	521.7	485.2
60°	448.7	448.7	452.4	456.0	454.8	456.0	456.0	452.4	440.2	423.2	394.0
62.5°	355.1	358.7	356.3	358.7	363.6	358.7	356.3	353.9	345.4	334.4	310.1
65°	268.7	271.2	271.2	272.4	269.9	271.2	266.3	262.7	257.8	245.7	229.8
67.5°	204.3	204.3	204.3	204.3	203.1	201.9	200.7	197.0	188.5	183.6	166.6
70°	156.9	149.6	149.6	149.6	149.6	150.8	147.2	142.3	139.8	131.3	119.2
72.5°	104.6	107.0	104.6	104.6	102.2	103.4	98.5	96.1	93.6	88.8	81.5
75°	75.4	69.3	71.7	73.0	69.3	71.7	66.9	62.0	62.0	58.4	54.7
77.5°	48.7	47.5	48.7	49.9	48.7	47.5	45.0	42.5	42.5	41.3	37.7
80°	35.3	34.0	34.0	34.0	32.8	34.0	31.6	31.6	29.2	28.0	25.5
82.5°	23.1	23.1	21.9	23.1	21.9	23.1	19.5	19.5	19.5	18.2	15.8
85°	15.8	13.4	13.4	14.6	12.2	14.6	13.4	12.2	11.0	11.0	9.7
87.5°	7.3	8.5	7.3	8.5	7.3	7.3	8.5	7.3	7.3	4.9	4.9
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: P244960

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4
2.5°	2478.3	2479.5	2479.5	2484.4	2486.8	2488.0	2488.0	2497.7	2494.1	2496.5	2498.9
5°	2443.0	2450.3	2452.7	2452.7	2466.1	2471.0	2475.8	2486.8	2488.0	2495.3	2503.8
7.5°	2409.0	2417.5	2422.4	2433.3	2441.8	2450.3	2464.9	2472.2	2479.5	2489.2	2500.1
10°	2376.1	2385.9	2395.6	2404.1	2417.5	2428.4	2438.1	2455.2	2463.7	2477.1	2491.6
12.5°	2344.5	2357.9	2366.4	2381.0	2395.6	2405.3	2419.9	2435.7	2449.1	2462.5	2479.5
15°	2316.6	2332.4	2342.1	2357.9	2373.7	2387.1	2402.9	2422.4	2432.1	2447.9	2463.7
17.5°	2286.1	2303.2	2315.4	2329.9	2349.4	2364.0	2377.4	2396.8	2409.0	2426.0	2444.2
20°	2254.5	2271.6	2286.1	2300.7	2320.2	2334.8	2350.6	2370.1	2383.4	2400.4	2415.1
22.5°	2216.8	2232.7	2248.4	2265.5	2284.9	2297.1	2315.4	2332.4	2346.9	2362.8	2377.4
25°	2168.2	2187.7	2199.8	2215.6	2231.4	2244.8	2264.2	2281.3	2293.4	2308.0	2321.4
27.5°	2111.0	2125.7	2135.4	2148.7	2164.5	2176.7	2191.3	2208.3	2220.5	2233.9	2243.6
30°	2013.7	2027.1	2035.7	2045.4	2061.2	2072.1	2084.3	2100.1	2108.6	2118.3	2126.9
32.5°	1886.0	1897.0	1901.9	1909.2	1920.1	1931.0	1940.8	1954.2	1957.8	1963.9	1963.9
35°	1701.3	1703.7	1702.5	1704.9	1709.8	1715.8	1724.3	1732.8	1737.7	1737.7	1734.1
37.5°	1484.8	1470.2	1454.4	1442.2	1438.6	1436.1	1441.0	1444.6	1449.5	1451.9	1445.9
40°	1259.8	1227.0	1191.7	1160.1	1138.2	1128.5	1124.8	1127.2	1127.2	1135.8	1135.8
42.5°	1066.5	1015.4	963.1	915.7	884.0	859.8	848.8	848.8	850.0	856.1	859.8
45°	906.0	841.5	780.7	728.4	684.6	653.0	638.4	634.8	633.6	636.0	644.5
47.5°	783.1	716.3	653.0	588.6	542.4	510.7	497.4	492.5	487.6	492.5	493.7
50°	687.1	617.8	550.9	486.4	437.8	409.8	392.8	385.5	384.3	384.3	386.7
52.5°	599.5	535.1	468.2	402.5	351.4	324.7	308.9	305.2	300.4	305.2	305.2
55°	516.8	452.4	386.7	324.7	282.1	254.2	239.6	234.7	232.2	235.9	235.9
57.5°	426.9	372.1	311.3	255.4	212.8	193.4	182.4	176.3	175.1	177.5	175.1
60°	350.2	304.0	251.7	200.7	167.8	147.2	138.6	136.2	133.7	136.2	136.2
62.5°	277.2	238.4	195.8	156.9	128.9	114.3	104.6	104.6	103.4	103.4	104.6
65°	205.5	175.1	144.7	111.9	90.0	79.0	71.7	71.7	70.5	71.7	70.5
67.5°	149.6	128.9	104.6	81.5	64.5	58.4	53.5	49.9	52.3	49.9	48.7
70°	109.5	92.4	75.4	62.0	49.9	43.8	40.1	38.9	36.5	36.5	36.5
72.5°	73.0	62.0	51.1	40.1	32.8	26.7	25.5	23.1	20.7	21.9	24.3
75°	48.7	41.3	36.5	29.2	21.9	21.9	14.6	14.6	12.2	14.6	11.0
77.5°	34.0	28.0	21.9	18.2	14.6	13.4	9.7	9.7	8.5	8.5	8.5
80°	24.3	20.7	15.8	13.4	9.7	9.7	8.5	7.3	6.1	6.1	7.3
82.5°	14.6	11.0	11.0	9.7	6.1	4.9	3.7	4.9	2.5	2.5	2.5
85°	8.5	7.3	6.1	3.7	2.5	2.5	1.2	0.0	1.2	1.2	0.0
87.5°	4.9	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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CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4
2.5°	2505.1	2503.8	2506.3	2506.3	2513.6	2512.3	2516.0	2516.0	2513.6	2514.8	2519.6
5°	2513.6	2517.2	2524.5	2530.6	2541.5	2546.4	2552.5	2558.6	2559.8	2563.4	2567.1
7.5°	2513.6	2525.7	2534.2	2545.1	2559.8	2568.3	2581.6	2592.6	2597.5	2603.5	2610.8
10°	2508.7	2520.8	2536.6	2548.8	2567.1	2580.4	2593.8	2610.8	2618.1	2627.8	2637.6
12.5°	2498.9	2512.3	2529.3	2545.1	2565.8	2578.0	2595.0	2610.8	2621.8	2635.1	2646.1
15°	2484.4	2500.1	2516.0	2531.8	2553.7	2568.3	2584.1	2602.3	2613.3	2627.8	2637.6
17.5°	2461.3	2478.3	2492.9	2507.5	2528.1	2545.1	2559.8	2576.8	2587.7	2599.9	2613.3
20°	2433.3	2449.1	2464.9	2477.1	2497.7	2512.3	2528.1	2543.9	2552.5	2554.9	2575.6
22.5°	2398.0	2409.0	2421.1	2440.6	2452.7	2466.1	2480.7	2495.3	2503.8	2517.2	2524.5
25°	2339.6	2350.6	2364.0	2372.5	2387.1	2398.0	2412.6	2428.4	2433.3	2443.0	2450.3
27.5°	2258.2	2264.2	2270.4	2277.6	2286.1	2292.2	2300.7	2308.0	2312.9	2317.8	2322.6
30°	2129.3	2129.3	2129.3	2124.4	2128.1	2131.7	2132.9	2131.7	2131.7	2130.5	2130.5
32.5°	1959.0	1949.3	1938.4	1928.6	1925.0	1920.1	1917.7	1914.0	1908.0	1904.3	1905.5
35°	1729.2	1707.3	1693.9	1681.8	1672.1	1664.8	1661.1	1657.5	1656.3	1651.4	1646.5
37.5°	1442.2	1426.4	1416.7	1409.4	1400.9	1393.6	1394.8	1396.0	1399.6	1397.2	1398.4
40°	1138.2	1134.6	1138.2	1129.7	1127.2	1129.7	1135.8	1144.3	1149.2	1154.0	1162.5
42.5°	865.8	871.9	880.4	880.4	884.0	888.9	896.2	909.6	916.9	925.4	935.1
45°	651.8	659.1	670.1	673.7	676.1	682.2	690.7	701.6	706.5	713.8	722.3
47.5°	502.2	507.1	513.1	519.3	525.3	527.8	536.3	536.3	542.4	547.2	549.6
50°	391.6	396.4	401.3	404.9	407.4	411.0	413.4	417.1	418.3	420.7	421.9
52.5°	306.4	312.5	312.5	314.9	318.6	322.2	321.0	322.2	323.4	323.4	327.1
55°	239.6	239.6	243.2	243.2	245.7	244.4	245.7	245.7	245.7	245.7	246.9
57.5°	178.7	180.0	183.6	181.2	180.0	182.4	180.0	182.4	181.2	183.6	180.0
60°	137.4	137.4	138.6	138.6	139.8	139.8	139.8	138.6	138.6	137.4	137.4
62.5°	103.4	104.6	105.8	104.6	104.6	104.6	103.4	103.4	102.2	100.9	100.9
65°	69.3	68.1	70.5	68.1	69.3	69.3	68.1	69.3	65.7	66.9	65.7
67.5°	49.9	48.7	47.5	48.7	47.5	46.2	46.2	47.5	48.7	45.0	45.0
70°	32.8	34.0	32.8	34.0	35.3	35.3	34.0	32.8	34.0	31.6	32.8
72.5°	20.7	20.7	20.7	20.7	20.7	21.9	21.9	21.9	19.5	19.5	18.2
75°	9.7	13.4	11.0	9.7	13.4	13.4	12.2	12.2	11.0	11.0	11.0
77.5°	9.7	7.3	7.3	7.3	7.3	7.3	7.3	7.3	6.1	7.3	6.1
80°	4.9	4.9	4.9	3.7	4.9	4.9	6.1	4.9	4.9	3.7	6.1
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: P244960

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4
2.5°	2518.4	2517.2	2518.4	2519.6	2518.4	2517.2	2518.4	2519.6	2514.8	2513.6	2516.0
5°	2571.9	2571.9	2574.3	2575.6	2574.3	2571.9	2571.9	2567.1	2563.4	2559.8	2558.6
7.5°	2618.1	2620.6	2623.0	2624.2	2623.0	2620.6	2618.1	2610.8	2603.5	2597.5	2592.6
10°	2646.1	2649.8	2654.6	2657.0	2654.6	2649.8	2646.1	2637.6	2627.8	2618.1	2610.8
12.5°	2658.3	2661.9	2668.0	2666.8	2668.0	2661.9	2658.3	2646.1	2635.1	2621.8	2610.8
15°	2649.8	2654.6	2660.7	2663.1	2660.7	2654.6	2649.8	2637.6	2627.8	2613.3	2602.3
17.5°	2623.0	2630.3	2633.9	2637.6	2633.9	2630.3	2623.0	2613.3	2599.9	2587.7	2576.8
20°	2586.5	2591.4	2596.3	2597.5	2596.3	2591.4	2586.5	2575.6	2554.9	2552.5	2543.9
22.5°	2534.2	2537.9	2548.8	2545.1	2548.8	2537.9	2534.2	2524.5	2517.2	2503.8	2495.3
25°	2458.8	2462.5	2463.7	2464.9	2463.7	2462.5	2458.8	2450.3	2443.0	2433.3	2428.4
27.5°	2328.7	2328.7	2331.1	2332.4	2331.1	2328.7	2328.7	2322.6	2317.8	2312.9	2308.0
30°	2131.7	2131.7	2131.7	2137.8	2131.7	2131.7	2131.7	2130.5	2130.5	2131.7	2131.7
32.5°	1904.3	1901.9	1899.5	1901.9	1899.5	1901.9	1904.3	1905.5	1904.3	1908.0	1914.0
35°	1646.5	1645.3	1648.9	1644.1	1648.9	1645.3	1646.5	1646.5	1651.4	1656.3	1657.5
37.5°	1399.6	1397.2	1402.1	1397.2	1402.1	1397.2	1399.6	1398.4	1397.2	1399.6	1396.0
40°	1165.0	1167.4	1167.4	1177.1	1167.4	1167.4	1165.0	1162.5	1154.0	1149.2	1144.3
42.5°	940.0	947.3	944.9	952.2	944.9	947.3	940.0	935.1	925.4	916.9	909.6
45°	727.2	732.1	732.1	734.5	732.1	732.1	727.2	722.3	713.8	706.5	701.6
47.5°	558.1	558.1	558.1	559.4	558.1	558.1	558.1	549.6	547.2	542.4	536.3
50°	424.4	425.6	426.9	428.1	426.9	425.6	424.4	421.9	420.7	418.3	417.1
52.5°	325.9	327.1	324.7	327.1	324.7	327.1	325.9	327.1	323.4	323.4	322.2
55°	246.9	245.7	246.9	248.1	246.9	245.7	246.9	246.9	245.7	245.7	245.7
57.5°	181.2	178.7	178.7	178.7	178.7	178.7	181.2	180.0	183.6	181.2	182.4
60°	135.0	136.2	136.2	137.4	136.2	136.2	135.0	137.4	137.4	138.6	138.6
62.5°	99.7	103.4	100.9	103.4	100.9	103.4	99.7	100.9	100.9	102.2	103.4
65°	64.5	64.5	64.5	65.7	64.5	64.5	64.5	65.7	66.9	65.7	69.3
67.5°	43.8	45.0	47.5	46.2	47.5	45.0	43.8	45.0	45.0	48.7	47.5
70°	35.3	31.6	31.6	35.3	31.6	31.6	35.3	32.8	31.6	34.0	32.8
72.5°	20.7	18.2	20.7	20.7	20.7	18.2	20.7	18.2	19.5	19.5	21.9
75°	11.0	9.7	8.5	12.2	8.5	9.7	11.0	11.0	11.0	11.0	12.2
77.5°	7.3	6.1	8.5	8.5	8.5	6.1	7.3	6.1	7.3	6.1	7.3
80°	3.7	4.9	3.7	6.1	3.7	4.9	3.7	6.1	3.7	4.9	4.9
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: P244960

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4
2.5°	2516.0	2512.3	2513.6	2506.3	2506.3	2503.8	2505.1	2498.9	2496.5	2494.1	2497.7
5°	2552.5	2546.4	2541.5	2530.6	2524.5	2517.2	2513.6	2503.8	2495.3	2488.0	2486.8
7.5°	2581.6	2568.3	2559.8	2545.1	2534.2	2525.7	2513.6	2500.1	2489.2	2479.5	2472.2
10°	2593.8	2580.4	2567.1	2548.8	2536.6	2520.8	2508.7	2491.6	2477.1	2463.7	2455.2
12.5°	2595.0	2578.0	2565.8	2545.1	2529.3	2512.3	2498.9	2479.5	2462.5	2449.1	2435.7
15°	2584.1	2568.3	2553.7	2531.8	2516.0	2500.1	2484.4	2463.7	2447.9	2432.1	2422.4
17.5°	2559.8	2545.1	2528.1	2507.5	2492.9	2478.3	2461.3	2444.2	2426.0	2409.0	2396.8
20°	2528.1	2512.3	2497.7	2477.1	2464.9	2449.1	2433.3	2415.1	2400.4	2383.4	2370.1
22.5°	2480.7	2466.1	2452.7	2440.6	2421.1	2409.0	2398.0	2377.4	2362.8	2346.9	2332.4
25°	2412.6	2398.0	2387.1	2372.5	2364.0	2350.6	2339.6	2321.4	2308.0	2293.4	2281.3
27.5°	2300.7	2292.2	2286.1	2277.6	2270.4	2264.2	2258.2	2243.6	2233.9	2220.5	2208.3
30°	2132.9	2131.7	2128.1	2124.4	2129.3	2129.3	2129.3	2126.9	2118.3	2108.6	2100.1
32.5°	1917.7	1920.1	1925.0	1928.6	1938.4	1949.3	1959.0	1963.9	1963.9	1957.8	1954.2
35°	1661.1	1664.8	1672.1	1681.8	1693.9	1707.3	1729.2	1734.1	1737.7	1737.7	1732.8
37.5°	1394.8	1393.6	1400.9	1409.4	1416.7	1426.4	1442.2	1445.9	1451.9	1449.5	1444.6
40°	1135.8	1129.7	1127.2	1129.7	1138.2	1134.6	1138.2	1135.8	1135.8	1127.2	1127.2
42.5°	896.2	888.9	884.0	880.4	880.4	871.9	865.8	859.8	856.1	850.0	848.8
45°	690.7	682.2	676.1	673.7	670.1	659.1	651.8	644.5	636.0	633.6	634.8
47.5°	536.3	527.8	525.3	519.3	513.1	507.1	502.2	493.7	492.5	487.6	492.5
50°	413.4	411.0	407.4	404.9	401.3	396.4	391.6	386.7	384.3	384.3	385.5
52.5°	321.0	322.2	318.6	314.9	312.5	312.5	306.4	305.2	305.2	300.4	305.2
55°	245.7	244.4	245.7	243.2	243.2	239.6	239.6	235.9	235.9	232.2	234.7
57.5°	180.0	182.4	180.0	181.2	183.6	180.0	178.7	175.1	177.5	175.1	176.3
60°	139.8	139.8	139.8	138.6	138.6	137.4	137.4	136.2	136.2	133.7	136.2
62.5°	103.4	104.6	104.6	104.6	105.8	104.6	103.4	104.6	103.4	103.4	104.6
65°	68.1	69.3	69.3	68.1	70.5	68.1	69.3	70.5	71.7	70.5	71.7
67.5°	46.2	46.2	47.5	48.7	47.5	48.7	49.9	48.7	49.9	52.3	49.9
70°	34.0	35.3	35.3	34.0	32.8	34.0	32.8	36.5	36.5	36.5	38.9
72.5°	21.9	21.9	20.7	20.7	20.7	20.7	20.7	24.3	21.9	20.7	23.1
75°	12.2	13.4	13.4	9.7	11.0	13.4	9.7	11.0	14.6	12.2	14.6
77.5°	7.3	7.3	7.3	7.3	7.3	7.3	9.7	8.5	8.5	8.5	9.7
80°	6.1	4.9	4.9	3.7	4.9	4.9	4.9	7.3	6.1	6.1	7.3
82.5°	2.5	2.5	1.2	0.0	2.5	2.5	2.5	2.5	2.5	2.5	4.9
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: P244960

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4
2.5°	2488.0	2488.0	2486.8	2484.4	2479.5	2479.5	2478.3	2474.6	2472.2	2471.0	2471.0
5°	2475.8	2471.0	2466.1	2452.7	2452.7	2450.3	2443.0	2438.1	2435.7	2429.6	2427.2
7.5°	2464.9	2450.3	2441.8	2433.3	2422.4	2417.5	2409.0	2405.3	2396.8	2390.7	2387.1
10°	2438.1	2428.4	2417.5	2404.1	2395.6	2385.9	2376.1	2368.9	2357.9	2351.8	2346.9
12.5°	2419.9	2405.3	2395.6	2381.0	2366.4	2357.9	2344.5	2336.0	2325.1	2312.9	2305.6
15°	2402.9	2387.1	2373.7	2357.9	2342.1	2332.4	2316.6	2306.8	2291.0	2278.9	2270.4
17.5°	2377.4	2364.0	2349.4	2329.9	2315.4	2303.2	2286.1	2274.0	2259.4	2243.6	2235.1
20°	2350.6	2334.8	2320.2	2300.7	2286.1	2271.6	2254.5	2241.2	2224.1	2209.5	2199.8
22.5°	2315.4	2297.1	2284.9	2265.5	2248.4	2232.7	2216.8	2201.0	2185.2	2173.1	2162.1
25°	2264.2	2244.8	2231.4	2215.6	2199.8	2187.7	2168.2	2158.5	2142.7	2131.7	2120.7
27.5°	2191.3	2176.7	2164.5	2148.7	2135.4	2125.7	2111.0	2101.3	2087.9	2078.2	2069.7
30°	2084.3	2072.1	2061.2	2045.4	2035.7	2027.1	2013.7	2005.2	1995.5	1984.6	1982.2
32.5°	1940.8	1931.0	1920.1	1909.2	1901.9	1897.0	1886.0	1881.2	1871.5	1865.4	1859.3
35°	1724.3	1715.8	1709.8	1704.9	1702.5	1703.7	1701.3	1706.1	1708.5	1707.3	1708.5
37.5°	1441.0	1436.1	1438.6	1442.2	1454.4	1470.2	1484.8	1506.6	1521.3	1535.9	1549.2
40°	1124.8	1128.5	1138.2	1160.1	1191.7	1227.0	1259.8	1301.2	1342.5	1371.7	1398.4
42.5°	848.8	859.8	884.0	915.7	963.1	1015.4	1066.5	1127.2	1177.1	1225.7	1259.8
45°	638.4	653.0	684.6	728.4	780.7	841.5	906.0	974.0	1033.6	1083.5	1121.2
47.5°	497.4	510.7	542.4	588.6	653.0	716.3	783.1	853.7	915.7	964.3	997.2
50°	392.8	409.8	437.8	486.4	550.9	617.8	687.1	756.4	814.8	856.1	885.3
52.5°	308.9	324.7	351.4	402.5	468.2	535.1	599.5	667.6	718.7	758.8	778.3
55°	239.6	254.2	282.1	324.7	386.7	452.4	516.8	575.2	622.6	651.8	670.1
57.5°	182.4	193.4	212.8	255.4	311.3	372.1	426.9	485.2	521.7	542.4	554.5
60°	138.6	147.2	167.8	200.7	251.7	304.0	350.2	394.0	423.2	440.2	452.4
62.5°	104.6	114.3	128.9	156.9	195.8	238.4	277.2	310.1	334.4	345.4	353.9
65°	71.7	79.0	90.0	111.9	144.7	175.1	205.5	229.8	245.7	257.8	262.7
67.5°	53.5	58.4	64.5	81.5	104.6	128.9	149.6	166.6	183.6	188.5	197.0
70°	40.1	43.8	49.9	62.0	75.4	92.4	109.5	119.2	131.3	139.8	142.3
72.5°	25.5	26.7	32.8	40.1	51.1	62.0	73.0	81.5	88.8	93.6	96.1
75°	14.6	21.9	21.9	29.2	36.5	41.3	48.7	54.7	58.4	62.0	62.0
77.5°	9.7	13.4	14.6	18.2	21.9	28.0	34.0	37.7	41.3	42.5	42.5
80°	8.5	9.7	9.7	13.4	15.8	20.7	24.3	25.5	28.0	29.2	31.6
82.5°	3.7	4.9	6.1	9.7	11.0	11.0	14.6	15.8	18.2	19.5	19.5
85°	1.2	2.5	2.5	3.7	6.1	7.3	8.5	9.7	11.0	11.0	12.2
87.5°	1.2	1.2	0.0	1.2	2.5	2.5	4.9	4.9	4.9	7.3	7.3
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: P244960

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4	2490.4
2.5°	2468.6	2469.8	2464.9	2463.7	2461.3	2462.5	2464.9
5°	2423.6	2424.8	2419.9	2415.1	2415.1	2413.8	2415.1
7.5°	2381.0	2382.2	2374.9	2372.5	2367.6	2368.9	2368.9
10°	2338.4	2338.4	2327.5	2326.3	2322.6	2321.4	2321.4
12.5°	2297.1	2293.4	2284.9	2280.1	2282.5	2275.2	2275.2
15°	2260.6	2254.5	2243.6	2239.9	2233.9	2231.4	2231.4
17.5°	2222.9	2218.1	2208.3	2201.0	2193.7	2192.5	2193.7
20°	2186.4	2181.6	2169.4	2164.5	2158.5	2158.5	2156.0
22.5°	2149.9	2145.1	2134.2	2130.5	2122.0	2122.0	2123.2
25°	2112.2	2108.6	2096.4	2094.0	2092.8	2087.9	2090.4
27.5°	2061.2	2058.7	2049.0	2045.4	2040.5	2039.3	2041.7
30°	1967.5	1963.9	1956.6	1953.0	1944.5	1945.7	1948.1
32.5°	1850.8	1846.0	1836.2	1832.5	1825.3	1822.8	1824.0
35°	1704.9	1701.3	1692.7	1692.7	1685.4	1683.0	1685.4
37.5°	1556.5	1560.2	1556.5	1560.2	1556.5	1555.3	1556.5
40°	1416.7	1430.1	1432.5	1445.9	1441.0	1448.3	1447.1
42.5°	1282.9	1304.8	1313.3	1324.3	1321.9	1326.7	1330.4
45°	1147.9	1166.2	1174.7	1182.0	1183.2	1185.7	1186.9
47.5°	1020.2	1034.8	1036.0	1044.6	1043.4	1043.4	1047.0
50°	901.1	910.8	913.2	919.3	914.5	912.0	913.2
52.5°	790.4	800.1	797.7	800.1	794.1	791.6	792.8
55°	677.3	682.2	682.2	682.2	674.9	674.9	674.9
57.5°	561.8	563.0	560.6	561.8	560.6	553.3	552.1
60°	456.0	456.0	454.8	456.0	452.4	448.7	448.7
62.5°	356.3	358.7	363.6	358.7	356.3	358.7	355.1
65°	266.3	271.2	269.9	272.4	271.2	271.2	268.7
67.5°	200.7	201.9	203.1	204.3	204.3	204.3	204.3
70°	147.2	150.8	149.6	149.6	149.6	149.6	156.9
72.5°	98.5	103.4	102.2	104.6	104.6	107.0	104.6
75°	66.9	71.7	69.3	73.0	71.7	69.3	75.4
77.5°	45.0	47.5	48.7	49.9	48.7	47.5	48.7
80°	31.6	34.0	32.8	34.0	34.0	34.0	35.3
82.5°	19.5	23.1	21.9	23.1	21.9	23.1	23.1
85°	13.4	14.6	12.2	14.6	13.4	13.4	15.8
87.5°	8.5	7.3	7.3	8.5	7.3	8.5	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)