

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: P245909

Luminaire Tested: **LD8B50D010 ER8B50840 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245909
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 ER8B50840 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4179.0 lumens
Efficiency: N/A
Efficacy: 78.8 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

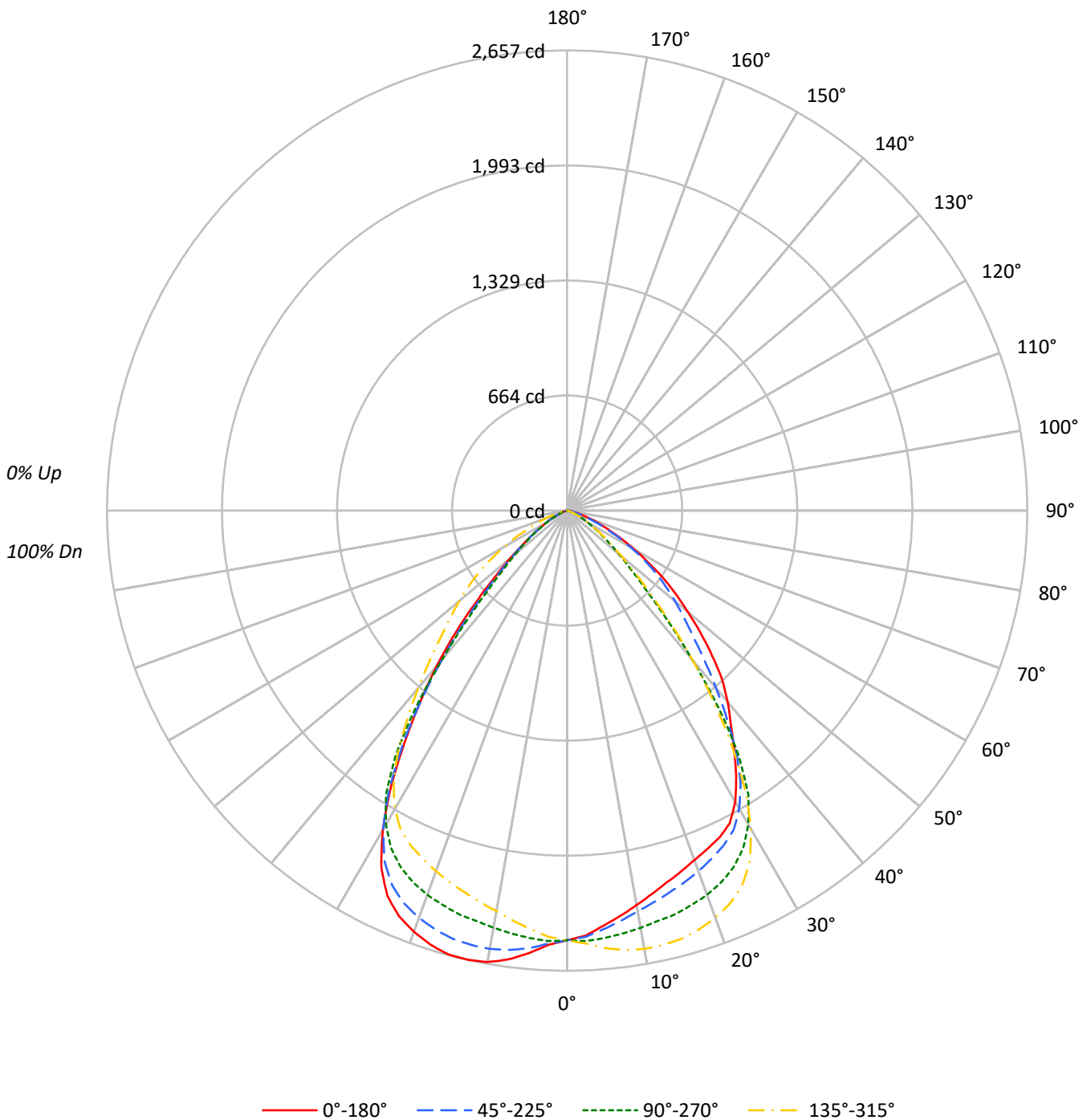
Input Watts (W): 53
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245909

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0B

Luminous Intensity Polar Plot





TEST NUMBER: P245909

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0B

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°	76502	76502	76502	76502
5°	74469	76683	79422	76683
10°	72412	76583	82880	76583
15°	70964	77036	84695	77036
20°	70481	77477	84910	77477
25°	70852	77323	83546	77323
30°	69098	74493	75832	74493
35°	63205	64981	61654	64981
40°	58030	45201	47206	45201
45°	51559	27578	31909	27578
50°	43641	18422	20456	18422
55°	36144	12569	13284	12569
60°	27568	8369	8443	8369
65°	19533	5217	4772	5217
70°	14092	3489	3174	3489
75°	8948	1739	1442	1739
80°	6251	1296	1065	1296
85°	5590	0	425	0



TEST NUMBER: P245909

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.1	5.7
10°-20°	683.8	16.4
20°-30°	1035.4	24.8
30°-40°	1037.8	24.8
40°-50°	651.7	15.6
50°-60°	347.3	8.3
60°-70°	142.8	3.4
70°-80°	37.7	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°	1955.4	46.8
0°-40°	2993.2	71.6
0°-60°	3992.1	95.5
0°-90°	4179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4179.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2481	2481	2481	2481	2481	
5°	2406	2477	2566	2477	2406	227
15°	2223	2413	2653	2413	2223	629
25°	2082	2273	2456	2273	2082	955
35°	1679	1726	1638	1726	1679	1052
45°	1182	632	732	632	1182	909
55°	672	234	247	234	672	599
65°	268	72	65	72	268	278
75°	75	15	12	15	75	85
85°	16	0	1	0	16	17
90°	0	0	0	0	0	



TEST NUMBER: P245909

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0B

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9
2.5°	2455.5	2453.1	2451.9	2454.3	2455.5	2460.3	2459.2	2461.5	2461.5	2462.8	2465.2
5°	2405.8	2404.6	2405.8	2405.8	2410.7	2415.5	2414.3	2418.0	2420.4	2426.4	2428.8
7.5°	2359.8	2359.8	2358.6	2363.4	2365.9	2373.1	2371.9	2378.0	2381.6	2387.6	2396.1
10°	2312.6	2312.6	2313.8	2317.4	2318.6	2329.5	2329.5	2338.0	2342.8	2348.9	2359.8
12.5°	2266.5	2266.5	2273.8	2271.4	2276.2	2284.7	2288.3	2296.8	2304.1	2316.2	2327.1
15°	2222.9	2222.9	2225.3	2231.4	2235.0	2245.9	2252.0	2261.7	2270.2	2282.3	2298.0
17.5°	2185.4	2184.2	2185.4	2192.6	2199.9	2209.6	2214.4	2226.5	2235.0	2250.8	2265.3
20°	2147.8	2150.3	2150.3	2156.3	2161.1	2173.2	2178.1	2191.4	2201.1	2215.6	2232.6
22.5°	2115.1	2113.9	2113.9	2122.4	2126.0	2136.9	2141.7	2153.8	2164.8	2176.9	2192.6
25°	2082.4	2079.9	2084.8	2086.0	2088.4	2100.5	2104.2	2112.7	2123.6	2134.5	2150.3
27.5°	2033.9	2031.5	2032.7	2037.6	2041.2	2050.9	2053.3	2061.8	2070.3	2079.9	2093.3
30°	1940.6	1938.2	1937.0	1945.5	1949.2	1956.4	1960.0	1974.6	1977.0	1987.9	1997.6
32.5°	1817.1	1815.9	1818.3	1825.6	1829.2	1838.9	1843.8	1852.2	1858.3	1864.3	1874.0
35°	1679.0	1676.6	1679.0	1686.3	1686.3	1694.8	1698.4	1702.0	1700.8	1702.0	1699.6
37.5°	1550.6	1549.4	1550.6	1554.2	1550.6	1554.2	1550.6	1543.3	1530.0	1515.5	1500.9
40°	1441.6	1442.8	1435.5	1440.4	1427.0	1424.6	1411.3	1393.1	1366.5	1337.4	1296.2
42.5°	1325.3	1321.6	1316.8	1319.2	1308.3	1299.8	1278.0	1255.0	1221.1	1172.7	1122.9
45°	1182.3	1181.1	1178.7	1177.5	1170.2	1161.7	1143.5	1116.9	1079.4	1029.7	970.3
47.5°	1043.0	1039.4	1039.4	1040.6	1032.1	1030.9	1016.3	993.4	960.6	912.2	850.4
50°	909.7	908.5	911.0	915.8	909.7	907.3	897.7	881.9	852.8	811.7	753.5
52.5°	789.8	788.6	791.1	797.1	794.7	797.1	787.4	775.3	755.9	715.9	665.1
55°	672.3	672.3	672.3	679.6	679.6	679.6	674.7	667.5	649.3	620.2	573.0
57.5°	550.0	551.2	558.5	559.7	558.5	560.9	559.7	552.4	540.3	519.7	483.4
60°	447.0	447.0	450.7	454.3	453.0	454.3	454.3	450.7	438.5	421.6	392.5
62.5°	353.7	357.4	354.9	357.4	362.2	357.4	354.9	352.5	344.0	333.1	308.9
65°	267.7	270.2	270.2	271.3	268.9	270.2	265.3	261.7	256.8	244.7	229.0
67.5°	203.5	203.5	203.5	203.5	202.3	201.1	199.9	196.3	187.8	182.9	165.9
70°	156.3	149.0	149.0	149.0	149.0	150.2	146.6	141.8	139.3	130.8	118.7
72.5°	104.2	106.6	104.2	104.2	101.8	103.0	98.1	95.7	93.3	88.5	81.2
75°	75.1	69.1	71.5	72.7	69.1	71.5	66.6	61.8	61.8	58.1	54.5
77.5°	48.5	47.3	48.5	49.7	48.5	47.3	44.8	42.4	42.4	41.2	37.5
80°	35.2	33.9	33.9	33.9	32.7	33.9	31.5	31.5	29.1	27.9	25.4
82.5°	23.0	23.0	21.8	23.0	21.8	23.0	19.4	19.4	19.4	18.1	15.8
85°	15.8	13.3	13.3	14.6	12.1	14.6	13.3	12.1	10.9	10.9	9.7
87.5°	7.3	8.5	7.3	8.5	7.3	7.3	8.5	7.3	7.3	4.8	4.8
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: P245909

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0B

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9
2.5°	2468.8	2470.0	2470.0	2474.9	2477.3	2478.5	2478.5	2488.2	2484.6	2487.0	2489.4
5°	2433.7	2441.0	2443.4	2443.4	2456.7	2461.5	2466.4	2477.3	2478.5	2485.8	2494.3
7.5°	2399.8	2408.2	2413.1	2424.0	2432.5	2441.0	2455.5	2462.8	2470.0	2479.7	2490.6
10°	2367.1	2376.8	2386.5	2394.9	2408.2	2419.2	2428.8	2445.8	2454.3	2467.6	2482.1
12.5°	2335.6	2348.9	2357.4	2371.9	2386.5	2396.1	2410.7	2426.4	2439.8	2453.1	2470.0
15°	2307.7	2323.5	2333.1	2348.9	2364.7	2378.0	2393.7	2413.1	2422.8	2438.6	2454.3
17.5°	2277.4	2294.4	2306.5	2321.0	2340.4	2354.9	2368.3	2387.6	2399.8	2416.7	2434.9
20°	2245.9	2262.9	2277.4	2292.0	2311.4	2325.9	2341.6	2361.0	2374.3	2391.3	2405.8
22.5°	2208.4	2224.2	2239.9	2256.8	2276.2	2288.3	2306.5	2323.5	2338.0	2353.7	2368.3
25°	2159.9	2179.3	2191.4	2207.1	2222.9	2236.2	2255.6	2272.6	2284.7	2299.2	2312.6
27.5°	2103.0	2117.5	2127.2	2140.5	2156.3	2168.4	2182.9	2199.9	2212.0	2225.3	2235.0
30°	2006.1	2019.4	2027.9	2037.6	2053.3	2064.2	2076.4	2092.1	2100.5	2110.3	2118.7
32.5°	1878.9	1889.8	1894.6	1901.9	1912.8	1923.7	1933.4	1946.7	1950.4	1956.4	1956.4
35°	1694.8	1697.2	1696.0	1698.4	1703.2	1709.3	1717.8	1726.2	1731.1	1731.1	1727.5
37.5°	1479.1	1464.6	1448.8	1436.7	1433.1	1430.6	1435.5	1439.1	1444.0	1446.4	1440.4
40°	1255.0	1222.3	1187.2	1155.7	1133.9	1124.2	1120.6	1122.9	1122.9	1131.4	1131.4
42.5°	1062.4	1011.5	959.4	912.2	880.7	856.5	845.6	845.6	846.8	852.8	856.5
45°	902.5	838.3	777.7	725.6	682.0	650.5	636.0	632.4	631.2	633.5	642.0
47.5°	780.1	713.5	650.5	586.3	540.3	508.8	495.5	490.6	485.8	490.6	491.8
50°	684.5	615.4	548.8	484.6	436.1	408.2	391.3	384.0	382.8	382.8	385.2
52.5°	597.2	533.0	466.4	401.0	350.1	323.5	307.7	304.1	299.2	304.1	304.1
55°	514.8	450.7	385.2	323.5	281.0	253.2	238.6	233.8	231.4	235.0	235.0
57.5°	425.2	370.7	310.1	254.4	212.0	192.6	181.7	175.7	174.4	176.9	174.4
60°	348.9	302.9	250.8	199.9	167.2	146.6	138.1	135.7	133.2	135.7	135.7
62.5°	276.2	237.4	195.0	156.3	128.4	113.9	104.2	104.2	103.0	103.0	104.2
65°	204.7	174.4	144.2	111.4	89.7	78.7	71.5	71.5	70.3	71.5	70.3
67.5°	149.0	128.4	104.2	81.2	64.2	58.1	53.3	49.7	52.1	49.7	48.5
70°	109.0	92.0	75.1	61.8	49.7	43.6	40.0	38.7	36.3	36.3	36.3
72.5°	72.7	61.8	50.9	40.0	32.7	26.6	25.4	23.0	20.6	21.8	24.2
75°	48.5	41.2	36.3	29.1	21.8	21.8	14.6	14.6	12.1	14.6	10.9
77.5°	33.9	27.9	21.8	18.1	14.6	13.3	9.7	9.7	8.5	8.5	8.5
80°	24.2	20.6	15.8	13.3	9.7	9.7	8.5	7.3	6.0	6.0	7.3
82.5°	14.6	10.9	10.9	9.7	6.0	4.8	3.6	4.8	2.4	2.4	2.4
85°	8.5	7.3	6.0	3.6	2.4	2.4	1.2	0.0	1.2	1.2	0.0
87.5°	4.8	2.4	2.4	1.2	0.0	1.2	1.2	0.0	0.0	0.0	2.4
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: P245909

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0B

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9
2.5°	2495.5	2494.3	2496.7	2496.7	2504.0	2502.7	2506.4	2506.4	2504.0	2505.2	2510.0
5°	2504.0	2507.6	2514.8	2520.9	2531.8	2536.7	2542.7	2548.8	2550.0	2553.6	2557.3
7.5°	2504.0	2516.1	2524.6	2535.4	2550.0	2558.5	2571.8	2582.7	2587.5	2593.6	2600.9
10°	2499.1	2511.2	2527.0	2539.1	2557.3	2570.6	2583.9	2600.9	2608.1	2617.8	2627.5
12.5°	2489.4	2502.7	2519.7	2535.4	2556.0	2568.1	2585.1	2600.9	2611.8	2625.1	2636.0
15°	2474.9	2490.6	2506.4	2522.1	2543.9	2558.5	2574.2	2592.4	2603.3	2617.8	2627.5
17.5°	2451.9	2468.8	2483.4	2497.9	2518.5	2535.4	2550.0	2567.0	2577.9	2590.0	2603.3
20°	2424.0	2439.8	2455.5	2467.6	2488.2	2502.7	2518.5	2534.2	2542.7	2545.2	2565.8
22.5°	2388.9	2399.8	2411.9	2431.3	2443.4	2456.7	2471.3	2485.8	2494.3	2507.6	2514.8
25°	2330.7	2341.6	2354.9	2363.4	2378.0	2388.9	2403.4	2419.2	2424.0	2433.7	2441.0
27.5°	2249.6	2255.6	2261.7	2268.9	2277.4	2283.5	2292.0	2299.2	2304.1	2308.9	2313.8
30°	2121.1	2121.1	2121.1	2116.3	2119.9	2123.6	2124.8	2123.6	2123.6	2122.4	2122.4
32.5°	1951.6	1941.9	1931.0	1921.3	1917.6	1912.8	1910.4	1906.7	1900.7	1897.1	1898.3
35°	1722.6	1700.8	1687.5	1675.4	1665.7	1658.4	1654.8	1651.1	1649.9	1645.1	1640.2
37.5°	1436.7	1421.0	1411.3	1404.0	1395.5	1388.3	1389.5	1390.7	1394.3	1391.9	1393.1
40°	1133.9	1130.2	1133.9	1125.4	1122.9	1125.4	1131.4	1139.9	1144.8	1149.6	1158.1
42.5°	862.5	868.5	877.1	877.1	880.7	885.6	892.8	906.1	913.4	921.9	931.6
45°	649.3	656.6	667.5	671.1	673.5	679.6	688.1	699.0	703.8	711.1	719.6
47.5°	500.3	505.2	511.2	517.3	523.3	525.7	534.2	534.2	540.3	545.1	547.5
50°	390.1	394.9	399.7	403.4	405.8	409.5	411.9	415.5	416.7	419.1	420.3
52.5°	305.3	311.3	311.3	313.7	317.4	321.0	319.8	321.0	322.2	322.2	325.8
55°	238.6	238.6	242.3	242.3	244.7	243.5	244.7	244.7	244.7	244.7	245.9
57.5°	178.1	179.3	182.9	180.5	179.3	181.7	179.3	181.7	180.5	182.9	179.3
60°	136.9	136.9	138.1	138.1	139.3	139.3	139.3	138.1	138.1	136.9	136.9
62.5°	103.0	104.2	105.4	104.2	104.2	104.2	103.0	103.0	101.8	100.5	100.5
65°	69.1	67.9	70.3	67.9	69.1	69.1	67.9	69.1	65.4	66.6	65.4
67.5°	49.7	48.5	47.3	48.5	47.3	46.0	46.0	47.3	48.5	44.8	44.8
70°	32.7	33.9	32.7	33.9	35.2	35.2	33.9	32.7	33.9	31.5	32.7
72.5°	20.6	20.6	20.6	20.6	20.6	21.8	21.8	21.8	19.4	19.4	18.1
75°	9.7	13.3	10.9	9.7	13.3	13.3	12.1	12.1	10.9	10.9	10.9
77.5°	9.7	7.3	7.3	7.3	7.3	7.3	7.3	7.3	6.0	7.3	6.0
80°	4.8	4.8	4.8	3.6	4.8	4.8	6.0	4.8	4.8	3.6	6.0
82.5°	2.4	2.4	2.4	0.0	1.2	2.4	2.4	1.2	2.4	2.4	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: P245909

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9
2.5°	2508.8	2507.6	2508.8	2510.0	2508.8	2507.6	2508.8	2510.0	2505.2	2504.0	2506.4
5°	2562.1	2562.1	2564.5	2565.8	2564.5	2562.1	2562.1	2557.3	2553.6	2550.0	2548.8
7.5°	2608.1	2610.6	2613.0	2614.2	2613.0	2610.6	2608.1	2600.9	2593.6	2587.5	2582.7
10°	2636.0	2639.7	2644.5	2646.9	2644.5	2639.7	2636.0	2627.5	2617.8	2608.1	2600.9
12.5°	2648.1	2651.8	2657.8	2656.6	2657.8	2651.8	2648.1	2636.0	2625.1	2611.8	2600.9
15°	2639.7	2644.5	2650.5	2653.0	2650.5	2644.5	2639.7	2627.5	2617.8	2603.3	2592.4
17.5°	2613.0	2620.3	2623.9	2627.5	2623.9	2620.3	2613.0	2603.3	2590.0	2577.9	2567.0
20°	2576.6	2581.5	2586.3	2587.5	2586.3	2581.5	2576.6	2565.8	2545.2	2542.7	2534.2
22.5°	2524.6	2528.2	2539.1	2535.4	2539.1	2528.2	2524.6	2514.8	2507.6	2494.3	2485.8
25°	2449.4	2453.1	2454.3	2455.5	2454.3	2453.1	2449.4	2441.0	2433.7	2424.0	2419.2
27.5°	2319.8	2319.8	2322.2	2323.5	2322.2	2319.8	2319.8	2313.8	2308.9	2304.1	2299.2
30°	2123.6	2123.6	2123.6	2129.7	2123.6	2123.6	2123.6	2122.4	2122.4	2123.6	2123.6
32.5°	1897.1	1894.6	1892.2	1894.6	1892.2	1894.6	1897.1	1898.3	1897.1	1900.7	1906.7
35°	1640.2	1639.0	1642.7	1637.8	1642.7	1639.0	1640.2	1640.2	1645.1	1649.9	1651.1
37.5°	1394.3	1391.9	1396.7	1391.9	1396.7	1391.9	1394.3	1393.1	1391.9	1394.3	1390.7
40°	1160.5	1162.9	1162.9	1172.7	1162.9	1162.9	1160.5	1158.1	1149.6	1144.8	1139.9
42.5°	936.4	943.7	941.2	948.5	941.2	943.7	936.4	931.6	921.9	913.4	906.1
45°	724.4	729.3	729.3	731.7	729.3	729.3	724.4	719.6	711.1	703.8	699.0
47.5°	556.0	556.0	556.0	557.3	556.0	556.0	556.0	547.5	545.1	540.3	534.2
50°	422.8	424.0	425.2	426.4	425.2	424.0	422.8	420.3	419.1	416.7	415.5
52.5°	324.7	325.8	323.5	325.8	323.5	325.8	324.7	325.8	322.2	322.2	321.0
55°	245.9	244.7	245.9	247.1	245.9	244.7	245.9	245.9	244.7	244.7	244.7
57.5°	180.5	178.1	178.1	178.1	178.1	178.1	180.5	179.3	182.9	180.5	181.7
60°	134.5	135.7	135.7	136.9	135.7	135.7	134.5	136.9	136.9	138.1	138.1
62.5°	99.3	103.0	100.5	103.0	100.5	103.0	99.3	100.5	100.5	101.8	103.0
65°	64.2	64.2	64.2	65.4	64.2	64.2	64.2	65.4	66.6	65.4	69.1
67.5°	43.6	44.8	47.3	46.0	47.3	44.8	43.6	44.8	44.8	48.5	47.3
70°	35.2	31.5	31.5	35.2	31.5	31.5	35.2	32.7	31.5	33.9	32.7
72.5°	20.6	18.1	20.6	20.6	20.6	18.1	20.6	18.1	19.4	19.4	21.8
75°	10.9	9.7	8.5	12.1	8.5	9.7	10.9	10.9	10.9	10.9	12.1
77.5°	7.3	6.0	8.5	8.5	8.5	6.0	7.3	6.0	7.3	6.0	7.3
80°	3.6	4.8	3.6	6.0	3.6	4.8	3.6	6.0	3.6	4.8	4.8
82.5°	1.2	2.4	2.4	2.4	2.4	2.4	1.2	1.2	2.4	2.4	1.2
85°	0.0	2.4	1.2	1.2	1.2	2.4	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: P245909

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9
2.5°	2506.4	2502.7	2504.0	2496.7	2496.7	2494.3	2495.5	2489.4	2487.0	2484.6	2488.2
5°	2542.7	2536.7	2531.8	2520.9	2514.8	2507.6	2504.0	2494.3	2485.8	2478.5	2477.3
7.5°	2571.8	2558.5	2550.0	2535.4	2524.6	2516.1	2504.0	2490.6	2479.7	2470.0	2462.8
10°	2583.9	2570.6	2557.3	2539.1	2527.0	2511.2	2499.1	2482.1	2467.6	2454.3	2445.8
12.5°	2585.1	2568.1	2556.0	2535.4	2519.7	2502.7	2489.4	2470.0	2453.1	2439.8	2426.4
15°	2574.2	2558.5	2543.9	2522.1	2506.4	2490.6	2474.9	2454.3	2438.6	2422.8	2413.1
17.5°	2550.0	2535.4	2518.5	2497.9	2483.4	2468.8	2451.9	2434.9	2416.7	2399.8	2387.6
20°	2518.5	2502.7	2488.2	2467.6	2455.5	2439.8	2424.0	2405.8	2391.3	2374.3	2361.0
22.5°	2471.3	2456.7	2443.4	2431.3	2411.9	2399.8	2388.9	2368.3	2353.7	2338.0	2323.5
25°	2403.4	2388.9	2378.0	2363.4	2354.9	2341.6	2330.7	2312.6	2299.2	2284.7	2272.6
27.5°	2292.0	2283.5	2277.4	2268.9	2261.7	2255.6	2249.6	2235.0	2225.3	2212.0	2199.9
30°	2124.8	2123.6	2119.9	2116.3	2121.1	2121.1	2121.1	2118.7	2110.3	2100.5	2092.1
32.5°	1910.4	1912.8	1917.6	1921.3	1931.0	1941.9	1951.6	1956.4	1956.4	1950.4	1946.7
35°	1654.8	1658.4	1665.7	1675.4	1687.5	1700.8	1722.6	1727.5	1731.1	1731.1	1726.2
37.5°	1389.5	1388.3	1395.5	1404.0	1411.3	1421.0	1436.7	1440.4	1446.4	1444.0	1439.1
40°	1131.4	1125.4	1122.9	1125.4	1133.9	1130.2	1133.9	1131.4	1131.4	1122.9	1122.9
42.5°	892.8	885.6	880.7	877.1	877.1	868.5	862.5	856.5	852.8	846.8	845.6
45°	688.1	679.6	673.5	671.1	667.5	656.6	649.3	642.0	633.5	631.2	632.4
47.5°	534.2	525.7	523.3	517.3	511.2	505.2	500.3	491.8	490.6	485.8	490.6
50°	411.9	409.5	405.8	403.4	399.7	394.9	390.1	385.2	382.8	382.8	384.0
52.5°	319.8	321.0	317.4	313.7	311.3	311.3	305.3	304.1	304.1	299.2	304.1
55°	244.7	243.5	244.7	242.3	242.3	238.6	238.6	235.0	235.0	231.4	233.8
57.5°	179.3	181.7	179.3	180.5	182.9	179.3	178.1	174.4	176.9	174.4	175.7
60°	139.3	139.3	139.3	138.1	138.1	136.9	136.9	135.7	135.7	133.2	135.7
62.5°	103.0	104.2	104.2	104.2	105.4	104.2	103.0	104.2	103.0	103.0	104.2
65°	67.9	69.1	69.1	67.9	70.3	67.9	69.1	70.3	71.5	70.3	71.5
67.5°	46.0	46.0	47.3	48.5	47.3	48.5	49.7	48.5	49.7	52.1	49.7
70°	33.9	35.2	35.2	33.9	32.7	33.9	32.7	36.3	36.3	36.3	38.7
72.5°	21.8	21.8	20.6	20.6	20.6	20.6	20.6	24.2	21.8	20.6	23.0
75°	12.1	13.3	13.3	9.7	10.9	13.3	9.7	10.9	14.6	12.1	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°	6.0	4.8	4.8	3.6	4.8	4.8	4.8	7.3	6.0	6.0	7.3
82.5°	2.4	2.4	1.2	0.0	2.4	2.4	2.4	2.4	2.4	2.4	4.8
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	2.4	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: P245909

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9
2.5°	2478.5	2478.5	2477.3	2474.9	2470.0	2470.0	2468.8	2465.2	2462.8	2461.5	2461.5
5°	2466.4	2461.5	2456.7	2443.4	2443.4	2441.0	2433.7	2428.8	2426.4	2420.4	2418.0
7.5°	2455.5	2441.0	2432.5	2424.0	2413.1	2408.2	2399.8	2396.1	2387.6	2381.6	2378.0
10°	2428.8	2419.2	2408.2	2394.9	2386.5	2376.8	2367.1	2359.8	2348.9	2342.8	2338.0
12.5°	2410.7	2396.1	2386.5	2371.9	2357.4	2348.9	2335.6	2327.1	2316.2	2304.1	2296.8
15°	2393.7	2378.0	2364.7	2348.9	2333.1	2323.5	2307.7	2298.0	2282.3	2270.2	2261.7
17.5°	2368.3	2354.9	2340.4	2321.0	2306.5	2294.4	2277.4	2265.3	2250.8	2235.0	2226.5
20°	2341.6	2325.9	2311.4	2292.0	2277.4	2262.9	2245.9	2232.6	2215.6	2201.1	2191.4
22.5°	2306.5	2288.3	2276.2	2256.8	2239.9	2224.2	2208.4	2192.6	2176.9	2164.8	2153.8
25°	2255.6	2236.2	2222.9	2207.1	2191.4	2179.3	2159.9	2150.3	2134.5	2123.6	2112.7
27.5°	2182.9	2168.4	2156.3	2140.5	2127.2	2117.5	2103.0	2093.3	2079.9	2070.3	2061.8
30°	2076.4	2064.2	2053.3	2037.6	2027.9	2019.4	2006.1	1997.6	1987.9	1977.0	1974.6
32.5°	1933.4	1923.7	1912.8	1901.9	1894.6	1889.8	1878.9	1874.0	1864.3	1858.3	1852.2
35°	1717.8	1709.3	1703.2	1698.4	1696.0	1697.2	1694.8	1699.6	1702.0	1700.8	1702.0
37.5°	1435.5	1430.6	1433.1	1436.7	1448.8	1464.6	1479.1	1500.9	1515.5	1530.0	1543.3
40°	1120.6	1124.2	1133.9	1155.7	1187.2	1222.3	1255.0	1296.2	1337.4	1366.5	1393.1
42.5°	845.6	856.5	880.7	912.2	959.4	1011.5	1062.4	1122.9	1172.7	1221.1	1255.0
45°	636.0	650.5	682.0	725.6	777.7	838.3	902.5	970.3	1029.7	1079.4	1116.9
47.5°	495.5	508.8	540.3	586.3	650.5	713.5	780.1	850.4	912.2	960.6	993.4
50°	391.3	408.2	436.1	484.6	548.8	615.4	684.5	753.5	811.7	852.8	881.9
52.5°	307.7	323.5	350.1	401.0	466.4	533.0	597.2	665.1	715.9	755.9	775.3
55°	238.6	253.2	281.0	323.5	385.2	450.7	514.8	573.0	620.2	649.3	667.5
57.5°	181.7	192.6	212.0	254.4	310.1	370.7	425.2	483.4	519.7	540.3	552.4
60°	138.1	146.6	167.2	199.9	250.8	302.9	348.9	392.5	421.6	438.5	450.7
62.5°	104.2	113.9	128.4	156.3	195.0	237.4	276.2	308.9	333.1	344.0	352.5
65°	71.5	78.7	89.7	111.4	144.2	174.4	204.7	229.0	244.7	256.8	261.7
67.5°	53.3	58.1	64.2	81.2	104.2	128.4	149.0	165.9	182.9	187.8	196.3
70°	40.0	43.6	49.7	61.8	75.1	92.0	109.0	118.7	130.8	139.3	141.8
72.5°	25.4	26.6	32.7	40.0	50.9	61.8	72.7	81.2	88.5	93.3	95.7
75°	14.6	21.8	21.8	29.1	36.3	41.2	48.5	54.5	58.1	61.8	61.8
77.5°	9.7	13.3	14.6	18.1	21.8	27.9	33.9	37.5	41.2	42.4	42.4
80°	8.5	9.7	9.7	13.3	15.8	20.6	24.2	25.4	27.9	29.1	31.5
82.5°	3.6	4.8	6.0	9.7	10.9	10.9	14.6	15.8	18.1	19.4	19.4
85°	1.2	2.4	2.4	3.6	6.0	7.3	8.5	9.7	10.9	10.9	12.1
87.5°	1.2	1.2	0.0	1.2	2.4	2.4	4.8	4.8	4.8	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: P245909

CATALOG NUMBER: LD8B50D010 ER8B50840 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9
2.5°	2459.2	2460.3	2455.5	2454.3	2451.9	2453.1	2455.5
5°	2414.3	2415.5	2410.7	2405.8	2405.8	2404.6	2405.8
7.5°	2371.9	2373.1	2365.9	2363.4	2358.6	2359.8	2359.8
10°	2329.5	2329.5	2318.6	2317.4	2313.8	2312.6	2312.6
12.5°	2288.3	2284.7	2276.2	2271.4	2273.8	2266.5	2266.5
15°	2252.0	2245.9	2235.0	2231.4	2225.3	2222.9	2222.9
17.5°	2214.4	2209.6	2199.9	2192.6	2185.4	2184.2	2185.4
20°	2178.1	2173.2	2161.1	2156.3	2150.3	2150.3	2147.8
22.5°	2141.7	2136.9	2126.0	2122.4	2113.9	2113.9	2115.1
25°	2104.2	2100.5	2088.4	2086.0	2084.8	2079.9	2082.4
27.5°	2053.3	2050.9	2041.2	2037.6	2032.7	2031.5	2033.9
30°	1960.0	1956.4	1949.2	1945.5	1937.0	1938.2	1940.6
32.5°	1843.8	1838.9	1829.2	1825.6	1818.3	1815.9	1817.1
35°	1698.4	1694.8	1686.3	1686.3	1679.0	1676.6	1679.0
37.5°	1550.6	1554.2	1550.6	1554.2	1550.6	1549.4	1550.6
40°	1411.3	1424.6	1427.0	1440.4	1435.5	1442.8	1441.6
42.5°	1278.0	1299.8	1308.3	1319.2	1316.8	1321.6	1325.3
45°	1143.5	1161.7	1170.2	1177.5	1178.7	1181.1	1182.3
47.5°	1016.3	1030.9	1032.1	1040.6	1039.4	1039.4	1043.0
50°	897.7	907.3	909.7	915.8	911.0	908.5	909.7
52.5°	787.4	797.1	794.7	797.1	791.1	788.6	789.8
55°	674.7	679.6	679.6	679.6	672.3	672.3	672.3
57.5°	559.7	560.9	558.5	559.7	558.5	551.2	550.0
60°	454.3	454.3	453.0	454.3	450.7	447.0	447.0
62.5°	354.9	357.4	362.2	357.4	354.9	357.4	353.7
65°	265.3	270.2	268.9	271.3	270.2	270.2	267.7
67.5°	199.9	201.1	202.3	203.5	203.5	203.5	203.5
70°	146.6	150.2	149.0	149.0	149.0	149.0	156.3
72.5°	98.1	103.0	101.8	104.2	104.2	106.6	104.2
75°	66.6	71.5	69.1	72.7	71.5	69.1	75.1
77.5°	44.8	47.3	48.5	49.7	48.5	47.3	48.5
80°	31.5	33.9	32.7	33.9	33.9	33.9	35.2
82.5°	19.4	23.0	21.8	23.0	21.8	23.0	23.0
85°	13.3	14.6	12.1	14.6	13.3	13.3	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)