

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: P244972

Luminaire Tested: **LD8B40D010 ER8B40840 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244972  
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 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4333.0 lumens  
Efficiency: N/A  
Efficacy: 105.9 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

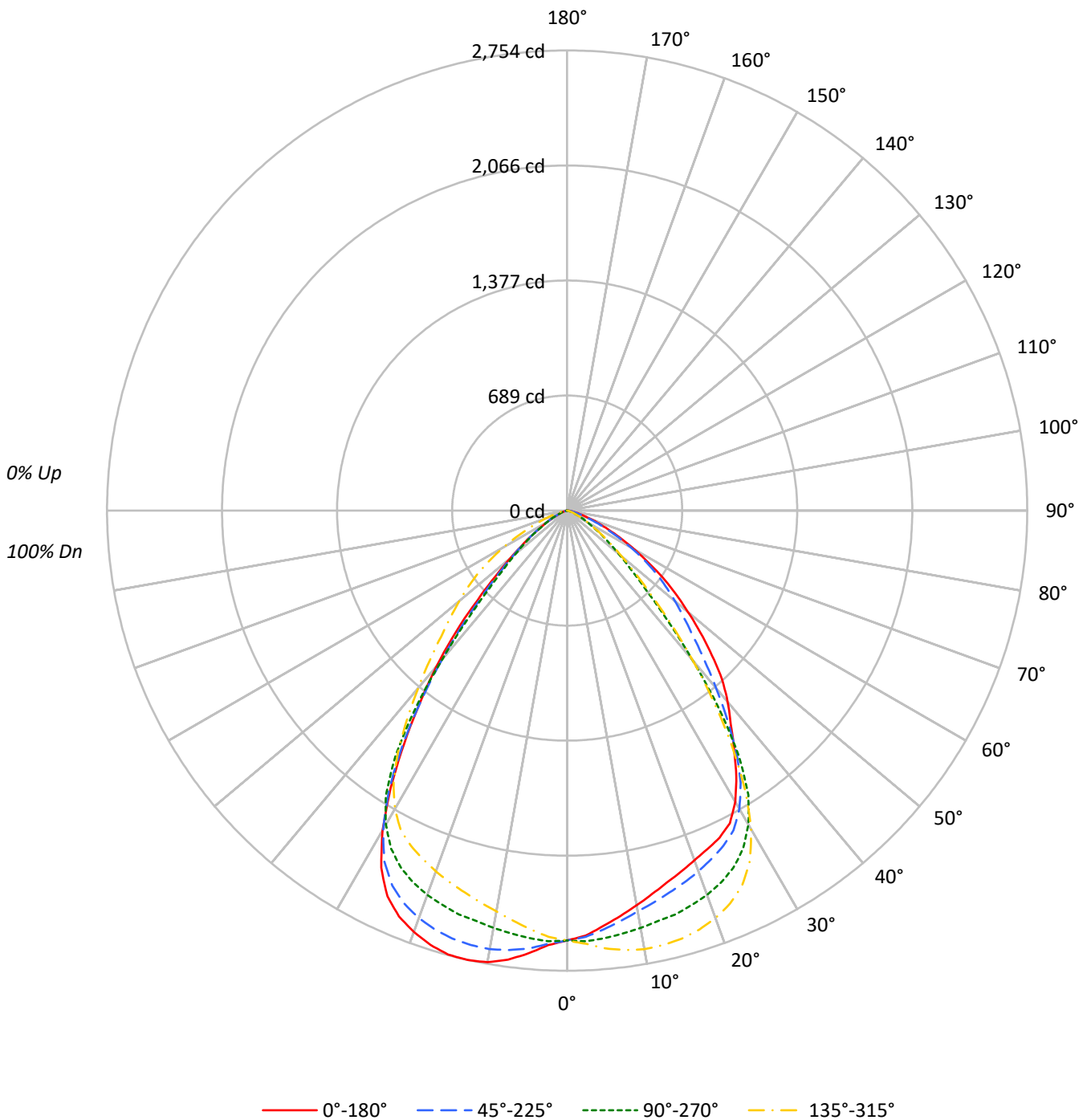
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P244972

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSW0WMH

### Luminous Intensity Polar Plot





TEST NUMBER: P244972

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSW0WMH

**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°	79323	79323	79323	79323
5°	77215	79509	82347	79509
10°	75080	79404	85933	79404
15°	73579	79877	87814	79877
20°	73080	80332	88040	80332
25°	73461	80171	86625	80171
30°	71644	77238	78623	77238
35°	65535	67376	63927	67376
40°	60168	46868	48945	46868
45°	53460	28595	33082	28595
50°	45253	19098	21209	19098
55°	37477	13032	13774	13032
60°	28585	8677	8751	8677
65°	20255	5407	4947	5407
70°	14606	3624	3282	3624
75°	9281	1799	1501	1799
80°	6464	1332	1119	1332
85°	5767	0	425	0



TEST NUMBER: P244972

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSW0WMH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.8	5.7
10°-20°	709.0	16.4
20°-30°	1073.6	24.8
30°-40°	1076.0	24.8
40°-50°	675.7	15.6
50°-60°	360.1	8.3
60°-70°	148.1	3.4
70°-80°	39.1	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°	2027.4	46.8
0°-40°	3103.5	71.6
0°-60°	4139.2	95.5
0°-90°	4333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4333.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2572	2572	2572	2572	2572	
5°	2494	2569	2660	2569	2494	235
15°	2305	2502	2751	2502	2305	652
25°	2159	2356	2546	2356	2159	990
35°	1741	1790	1698	1790	1741	1091
45°	1226	656	759	656	1226	943
55°	697	242	256	242	697	622
65°	278	74	68	74	278	288
75°	78	15	13	15	78	88
85°	16	0	1	0	16	18
90°	0	0	0	0	0	



TEST NUMBER: P244972

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSW0WMH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4
2.5°	2546.0	2543.5	2542.2	2544.8	2546.0	2551.0	2549.8	2552.3	2552.3	2553.5	2556.0
5°	2494.5	2493.2	2494.5	2494.5	2499.5	2504.5	2503.3	2507.1	2509.5	2515.9	2518.3
7.5°	2446.8	2446.8	2445.5	2450.5	2453.0	2460.6	2459.3	2465.6	2469.4	2475.6	2484.4
10°	2397.8	2397.8	2399.0	2402.8	2404.1	2415.4	2415.4	2424.1	2429.2	2435.5	2446.8
12.5°	2350.1	2350.1	2357.6	2355.1	2360.1	2368.9	2372.6	2381.4	2389.0	2401.5	2412.9
15°	2304.8	2304.8	2307.4	2313.6	2317.4	2328.7	2335.0	2345.0	2353.8	2366.4	2382.7
17.5°	2265.9	2264.6	2265.9	2273.4	2281.0	2291.0	2296.0	2308.6	2317.4	2333.7	2348.8
20°	2227.0	2229.5	2229.5	2235.7	2240.8	2253.3	2258.3	2272.2	2282.2	2297.3	2314.9
22.5°	2193.0	2191.8	2191.8	2200.6	2204.4	2215.6	2220.7	2233.2	2244.5	2257.1	2273.4
25°	2159.1	2156.6	2161.7	2162.9	2165.4	2177.9	2181.7	2190.5	2201.8	2213.2	2229.5
27.5°	2108.9	2106.4	2107.6	2112.7	2116.4	2126.5	2129.0	2137.8	2146.6	2156.6	2170.5
30°	2012.1	2009.7	2008.4	2017.2	2021.0	2028.5	2032.3	2047.4	2049.8	2061.2	2071.2
32.5°	1884.0	1882.8	1885.3	1892.8	1896.6	1906.7	1911.7	1920.5	1926.7	1933.0	1943.1
35°	1740.9	1738.3	1740.9	1748.4	1748.4	1757.2	1761.0	1764.7	1763.5	1764.7	1762.2
37.5°	1607.8	1606.5	1607.8	1611.5	1607.8	1611.5	1607.8	1600.2	1586.4	1571.3	1556.2
40°	1494.7	1495.9	1488.4	1493.4	1479.6	1477.1	1463.3	1444.4	1416.8	1386.7	1344.0
42.5°	1374.1	1370.3	1365.3	1367.8	1356.5	1347.7	1325.1	1301.3	1266.1	1215.9	1164.3
45°	1225.9	1224.7	1222.1	1220.9	1213.3	1204.5	1185.7	1158.1	1119.1	1067.6	1006.1
47.5°	1081.5	1077.7	1077.7	1078.9	1070.1	1068.9	1053.8	1030.0	996.0	945.8	881.7
50°	943.3	942.0	944.6	949.6	943.3	940.8	930.7	914.4	884.3	841.6	781.2
52.5°	818.9	817.7	820.2	826.5	823.9	826.5	816.4	803.9	783.8	742.3	689.6
55°	697.1	697.1	697.1	704.6	704.6	704.6	699.6	692.1	673.2	643.1	594.1
57.5°	570.2	571.5	579.0	580.3	579.0	581.6	580.3	572.7	560.2	538.9	501.2
60°	463.5	463.5	467.3	471.0	469.7	471.0	471.0	467.3	454.7	437.1	407.0
62.5°	366.8	370.5	368.0	370.5	375.5	370.5	368.0	365.5	356.7	345.4	320.3
65°	277.6	280.1	280.1	281.3	278.8	280.1	275.1	271.3	266.3	253.7	237.4
67.5°	211.0	211.0	211.0	211.0	209.7	208.5	207.3	203.5	194.7	189.7	172.1
70°	162.0	154.5	154.5	154.5	154.5	155.8	152.0	147.0	144.4	135.7	123.1
72.5°	108.0	110.5	108.0	108.0	105.5	106.8	101.7	99.2	96.7	91.7	84.2
75°	77.9	71.6	74.1	75.4	71.6	74.1	69.1	64.1	64.1	60.3	56.5
77.5°	50.3	49.0	50.3	51.5	50.3	49.0	46.5	43.9	43.9	42.7	38.9
80°	36.4	35.2	35.2	35.2	33.9	35.2	32.7	32.7	30.1	28.9	26.4
82.5°	23.9	23.9	22.6	23.9	22.6	23.9	20.1	20.1	20.1	18.8	16.3
85°	16.3	13.8	13.8	15.1	12.6	15.1	13.8	12.6	11.3	11.3	10.0
87.5°	7.5	8.8	7.5	8.8	7.5	7.5	8.8	7.5	7.5	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



TEST NUMBER: P244972

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4
2.5°	2559.8	2561.0	2561.0	2566.1	2568.6	2569.8	2569.8	2579.9	2576.1	2578.7	2581.2
5°	2523.4	2530.9	2533.4	2533.4	2547.2	2552.3	2557.3	2568.6	2569.8	2577.4	2586.2
7.5°	2488.2	2497.0	2502.1	2513.3	2522.1	2530.9	2546.0	2553.5	2561.0	2571.1	2582.4
10°	2454.3	2464.4	2474.4	2483.2	2497.0	2508.3	2518.3	2535.9	2544.8	2558.6	2573.6
12.5°	2421.7	2435.5	2444.3	2459.3	2474.4	2484.4	2499.5	2515.9	2529.7	2543.5	2561.0
15°	2392.8	2409.1	2419.1	2435.5	2451.8	2465.6	2481.9	2502.1	2512.1	2528.4	2544.8
17.5°	2361.3	2379.0	2391.5	2406.6	2426.7	2441.7	2455.6	2475.6	2488.2	2505.8	2524.6
20°	2328.7	2346.3	2361.3	2376.4	2396.5	2411.6	2427.9	2448.0	2461.8	2479.4	2494.5
22.5°	2289.8	2306.1	2322.4	2340.0	2360.1	2372.6	2391.5	2409.1	2424.1	2440.5	2455.6
25°	2239.5	2259.6	2272.2	2288.5	2304.8	2318.6	2338.7	2356.3	2368.9	2384.0	2397.8
27.5°	2180.5	2195.6	2205.6	2219.4	2235.7	2248.3	2263.4	2281.0	2293.5	2307.4	2317.4
30°	2080.0	2093.8	2102.6	2112.7	2129.0	2140.3	2152.9	2169.2	2177.9	2188.0	2196.8
32.5°	1948.1	1959.4	1964.4	1972.0	1983.3	1994.6	2004.7	2018.5	2022.2	2028.5	2028.5
35°	1757.2	1759.7	1758.5	1761.0	1766.0	1772.3	1781.1	1789.8	1794.9	1794.9	1791.1
37.5°	1533.6	1518.6	1502.2	1489.7	1485.9	1483.4	1488.4	1492.2	1497.2	1499.7	1493.4
40°	1301.3	1267.4	1230.9	1198.2	1175.6	1165.6	1161.8	1164.3	1164.3	1173.1	1173.1
42.5°	1101.6	1048.8	994.8	945.8	913.1	888.0	876.7	876.7	878.0	884.3	888.0
45°	935.8	869.2	806.4	752.4	707.1	674.5	659.4	655.7	654.4	656.9	665.7
47.5°	808.9	739.8	674.5	607.9	560.2	527.5	513.7	508.7	503.7	508.7	510.0
50°	709.7	638.1	569.0	502.4	452.2	423.3	405.7	398.1	396.9	396.9	399.4
52.5°	619.2	552.7	483.6	415.8	363.0	335.4	319.0	315.3	310.2	315.3	315.3
55°	533.8	467.3	399.4	335.4	291.4	262.5	247.4	242.4	239.9	243.7	243.7
57.5°	440.9	384.3	321.6	263.8	219.8	199.7	188.4	182.1	180.8	183.4	180.8
60°	361.7	314.0	260.0	207.3	173.3	152.0	143.2	140.7	138.1	140.7	140.7
62.5°	286.4	246.2	202.2	162.0	133.1	118.1	108.0	108.0	106.8	106.8	108.0
65°	212.3	180.8	149.5	115.5	93.0	81.6	74.1	74.1	72.8	74.1	72.8
67.5°	154.5	133.1	108.0	84.2	66.6	60.3	55.3	51.5	54.0	51.5	50.3
70°	113.1	95.4	77.9	64.1	51.5	45.2	41.5	40.2	37.7	37.7	37.7
72.5°	75.4	64.1	52.7	41.5	33.9	27.6	26.4	23.9	21.4	22.6	25.1
75°	50.3	42.7	37.7	30.1	22.6	22.6	15.1	15.1	12.6	15.1	11.3
77.5°	35.2	28.9	22.6	18.8	15.1	13.8	10.0	10.0	8.8	8.8	8.8
80°	25.1	21.4	16.3	13.8	10.0	10.0	8.8	7.5	6.3	6.3	7.5
82.5°	15.1	11.3	11.3	10.0	6.3	5.0	3.8	5.0	2.5	2.5	2.5
85°	8.8	7.5	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



TEST NUMBER: P244972

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4
2.5°	2587.5	2586.2	2588.7	2588.7	2596.3	2595.0	2598.7	2598.7	2596.3	2597.5	2602.5
5°	2596.3	2600.0	2607.5	2613.8	2625.1	2630.2	2636.4	2642.7	2644.0	2647.7	2651.5
7.5°	2596.3	2608.8	2617.6	2628.9	2644.0	2652.8	2666.6	2677.9	2682.9	2689.2	2696.7
10°	2591.2	2603.7	2620.1	2632.6	2651.5	2665.3	2679.1	2696.7	2704.3	2714.3	2724.4
12.5°	2581.2	2595.0	2612.5	2628.9	2650.2	2662.8	2680.4	2696.7	2708.0	2721.8	2733.2
15°	2566.1	2582.4	2598.7	2615.1	2637.7	2652.8	2669.1	2687.9	2699.2	2714.3	2724.4
17.5°	2542.2	2559.8	2574.9	2589.9	2611.3	2628.9	2644.0	2661.5	2672.9	2685.4	2699.2
20°	2513.3	2529.7	2546.0	2558.6	2579.9	2595.0	2611.3	2627.6	2636.4	2639.0	2660.3
22.5°	2476.9	2488.2	2500.8	2520.9	2533.4	2547.2	2562.3	2577.4	2586.2	2600.0	2607.5
25°	2416.6	2427.9	2441.7	2450.5	2465.6	2476.9	2492.0	2508.3	2513.3	2523.4	2530.9
27.5°	2332.5	2338.7	2345.0	2352.5	2361.3	2367.6	2376.4	2384.0	2389.0	2394.0	2399.0
30°	2199.3	2199.3	2199.3	2194.3	2198.1	2201.8	2203.1	2201.8	2201.8	2200.6	2200.6
32.5°	2023.5	2013.4	2002.1	1992.1	1988.3	1983.3	1980.8	1977.0	1970.7	1967.0	1968.2
35°	1786.1	1763.5	1749.7	1737.1	1727.1	1719.5	1715.8	1712.0	1710.7	1705.7	1700.7
37.5°	1489.7	1473.3	1463.3	1455.8	1447.0	1439.4	1440.7	1442.0	1445.7	1443.2	1444.4
40°	1175.6	1171.9	1175.6	1166.9	1164.3	1166.9	1173.1	1182.0	1187.0	1192.0	1200.8
42.5°	894.3	900.6	909.4	909.4	913.1	918.2	925.7	939.5	947.0	955.8	965.9
45°	673.2	680.8	692.1	695.8	698.4	704.6	713.5	724.7	729.7	737.3	746.1
47.5°	518.8	523.8	530.0	536.3	542.6	545.1	553.9	553.9	560.2	565.2	567.7
50°	404.4	409.5	414.5	418.2	420.8	424.6	427.0	430.8	432.1	434.6	435.8
52.5°	316.5	322.8	322.8	325.3	329.1	332.8	331.6	332.8	334.1	334.1	337.9
55°	247.4	247.4	251.2	251.2	253.7	252.4	253.7	253.7	253.7	253.7	255.0
57.5°	184.6	185.9	189.7	187.2	185.9	188.4	185.9	188.4	187.2	189.7	185.9
60°	141.9	141.9	143.2	143.2	144.4	144.4	144.4	143.2	143.2	141.9	141.9
62.5°	106.8	108.0	109.3	108.0	108.0	108.0	106.8	106.8	105.5	104.2	104.2
65°	71.6	70.4	72.8	70.4	71.6	71.6	70.4	71.6	67.8	69.1	67.8
67.5°	51.5	50.3	49.0	50.3	49.0	47.7	47.7	49.0	50.3	46.5	46.5
70°	33.9	35.2	33.9	35.2	36.4	36.4	35.2	33.9	35.2	32.7	33.9
72.5°	21.4	21.4	21.4	21.4	21.4	22.6	22.6	22.6	20.1	20.1	18.8
75°	10.0	13.8	11.3	10.0	13.8	13.8	12.6	12.6	11.3	11.3	11.3
77.5°	10.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	6.3	7.5	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: P244972

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4
2.5°	2601.3	2600.0	2601.3	2602.5	2601.3	2600.0	2601.3	2602.5	2597.5	2596.3	2598.7
5°	2656.5	2656.5	2659.0	2660.3	2659.0	2656.5	2656.5	2651.5	2647.7	2644.0	2642.7
7.5°	2704.3	2706.8	2709.3	2710.5	2709.3	2706.8	2704.3	2696.7	2689.2	2682.9	2677.9
10°	2733.2	2736.9	2741.9	2744.4	2741.9	2736.9	2733.2	2724.4	2714.3	2704.3	2696.7
12.5°	2745.7	2749.5	2755.7	2754.5	2755.7	2749.5	2745.7	2733.2	2721.8	2708.0	2696.7
15°	2736.9	2741.9	2748.2	2750.7	2748.2	2741.9	2736.9	2724.4	2714.3	2699.2	2687.9
17.5°	2709.3	2716.8	2720.6	2724.4	2720.6	2716.8	2709.3	2699.2	2685.4	2672.9	2661.5
20°	2671.6	2676.6	2681.7	2682.9	2681.7	2676.6	2671.6	2660.3	2639.0	2636.4	2627.6
22.5°	2617.6	2621.4	2632.6	2628.9	2632.6	2621.4	2617.6	2607.5	2600.0	2586.2	2577.4
25°	2539.7	2543.5	2544.8	2546.0	2544.8	2543.5	2539.7	2530.9	2523.4	2513.3	2508.3
27.5°	2405.3	2405.3	2407.8	2409.1	2407.8	2405.3	2405.3	2399.0	2394.0	2389.0	2384.0
30°	2201.8	2201.8	2201.8	2208.1	2201.8	2201.8	2201.8	2200.6	2200.6	2201.8	2201.8
32.5°	1967.0	1964.4	1961.9	1964.4	1961.9	1964.4	1967.0	1968.2	1967.0	1970.7	1977.0
35°	1700.7	1699.4	1703.2	1698.2	1703.2	1699.4	1700.7	1700.7	1705.7	1710.7	1712.0
37.5°	1445.7	1443.2	1448.2	1443.2	1448.2	1443.2	1445.7	1444.4	1443.2	1445.7	1442.0
40°	1203.3	1205.8	1205.8	1215.9	1205.8	1205.8	1203.3	1200.8	1192.0	1187.0	1182.0
42.5°	970.9	978.5	975.9	983.5	975.9	978.5	970.9	965.9	955.8	947.0	939.5
45°	751.1	756.2	756.2	758.6	756.2	756.2	751.1	746.1	737.3	729.7	724.7
47.5°	576.5	576.5	576.5	577.8	576.5	576.5	576.5	567.7	565.2	560.2	553.9
50°	438.4	439.6	440.9	442.1	440.9	439.6	438.4	435.8	434.6	432.1	430.8
52.5°	336.6	337.9	335.4	337.9	335.4	337.9	336.6	337.9	334.1	334.1	332.8
55°	255.0	253.7	255.0	256.2	255.0	253.7	255.0	255.0	253.7	253.7	253.7
57.5°	187.2	184.6	184.6	184.6	184.6	184.6	187.2	185.9	189.7	187.2	188.4
60°	139.4	140.7	140.7	141.9	140.7	140.7	139.4	141.9	141.9	143.2	143.2
62.5°	103.0	106.8	104.2	106.8	104.2	106.8	103.0	104.2	104.2	105.5	106.8
65°	66.6	66.6	66.6	67.8	66.6	66.6	66.6	67.8	69.1	67.8	71.6
67.5°	45.2	46.5	49.0	47.7	49.0	46.5	45.2	46.5	46.5	50.3	49.0
70°	36.4	32.7	32.7	36.4	32.7	32.7	36.4	33.9	32.7	35.2	33.9
72.5°	21.4	18.8	21.4	21.4	21.4	18.8	21.4	18.8	20.1	20.1	22.6
75°	11.3	10.0	8.8	12.6	8.8	10.0	11.3	11.3	11.3	11.3	12.6
77.5°	7.5	6.3	8.8	8.8	8.8	6.3	7.5	6.3	7.5	6.3	7.5
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: P244972

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4
2.5°	2598.7	2595.0	2596.3	2588.7	2588.7	2586.2	2587.5	2581.2	2578.7	2576.1	2579.9
5°	2636.4	2630.2	2625.1	2613.8	2607.5	2600.0	2596.3	2586.2	2577.4	2569.8	2568.6
7.5°	2666.6	2652.8	2644.0	2628.9	2617.6	2608.8	2596.3	2582.4	2571.1	2561.0	2553.5
10°	2679.1	2665.3	2651.5	2632.6	2620.1	2603.7	2591.2	2573.6	2558.6	2544.8	2535.9
12.5°	2680.4	2662.8	2650.2	2628.9	2612.5	2595.0	2581.2	2561.0	2543.5	2529.7	2515.9
15°	2669.1	2652.8	2637.7	2615.1	2598.7	2582.4	2566.1	2544.8	2528.4	2512.1	2502.1
17.5°	2644.0	2628.9	2611.3	2589.9	2574.9	2559.8	2542.2	2524.6	2505.8	2488.2	2475.6
20°	2611.3	2595.0	2579.9	2558.6	2546.0	2529.7	2513.3	2494.5	2479.4	2461.8	2448.0
22.5°	2562.3	2547.2	2533.4	2520.9	2500.8	2488.2	2476.9	2455.6	2440.5	2424.1	2409.1
25°	2492.0	2476.9	2465.6	2450.5	2441.7	2427.9	2416.6	2397.8	2384.0	2368.9	2356.3
27.5°	2376.4	2367.6	2361.3	2352.5	2345.0	2338.7	2332.5	2317.4	2307.4	2293.5	2281.0
30°	2203.1	2201.8	2198.1	2194.3	2199.3	2199.3	2199.3	2196.8	2188.0	2177.9	2169.2
32.5°	1980.8	1983.3	1988.3	1992.1	2002.1	2013.4	2023.5	2028.5	2028.5	2022.2	2018.5
35°	1715.8	1719.5	1727.1	1737.1	1749.7	1763.5	1786.1	1791.1	1794.9	1794.9	1789.8
37.5°	1440.7	1439.4	1447.0	1455.8	1463.3	1473.3	1489.7	1493.4	1499.7	1497.2	1492.2
40°	1173.1	1166.9	1164.3	1166.9	1175.6	1171.9	1175.6	1173.1	1173.1	1164.3	1164.3
42.5°	925.7	918.2	913.1	909.4	909.4	900.6	894.3	888.0	884.3	878.0	876.7
45°	713.5	704.6	698.4	695.8	692.1	680.8	673.2	665.7	656.9	654.4	655.7
47.5°	553.9	545.1	542.6	536.3	530.0	523.8	518.8	510.0	508.7	503.7	508.7
50°	427.0	424.6	420.8	418.2	414.5	409.5	404.4	399.4	396.9	396.9	398.1
52.5°	331.6	332.8	329.1	325.3	322.8	322.8	316.5	315.3	315.3	310.2	315.3
55°	253.7	252.4	253.7	251.2	251.2	247.4	247.4	243.7	243.7	239.9	242.4
57.5°	185.9	188.4	185.9	187.2	189.7	185.9	184.6	180.8	183.4	180.8	182.1
60°	144.4	144.4	144.4	143.2	143.2	141.9	141.9	140.7	140.7	138.1	140.7
62.5°	106.8	108.0	108.0	108.0	109.3	108.0	106.8	108.0	106.8	106.8	108.0
65°	70.4	71.6	71.6	70.4	72.8	70.4	71.6	72.8	74.1	72.8	74.1
67.5°	47.7	47.7	49.0	50.3	49.0	50.3	51.5	50.3	51.5	54.0	51.5
70°	35.2	36.4	36.4	35.2	33.9	35.2	33.9	37.7	37.7	37.7	40.2
72.5°	22.6	22.6	21.4	21.4	21.4	21.4	21.4	25.1	22.6	21.4	23.9
75°	12.6	13.8	13.8	10.0	11.3	13.8	10.0	11.3	15.1	12.6	15.1
77.5°	7.5	7.5	7.5	7.5	7.5	7.5	10.0	8.8	8.8	8.8	10.0
80°	6.3	5.0	5.0	3.8	5.0	5.0	5.0	7.5	6.3	6.3	7.5
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: P244972

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4
2.5°	2569.8	2569.8	2568.6	2566.1	2561.0	2561.0	2559.8	2556.0	2553.5	2552.3	2552.3
5°	2557.3	2552.3	2547.2	2533.4	2533.4	2530.9	2523.4	2518.3	2515.9	2509.5	2507.1
7.5°	2546.0	2530.9	2522.1	2513.3	2502.1	2497.0	2488.2	2484.4	2475.6	2469.4	2465.6
10°	2518.3	2508.3	2497.0	2483.2	2474.4	2464.4	2454.3	2446.8	2435.5	2429.2	2424.1
12.5°	2499.5	2484.4	2474.4	2459.3	2444.3	2435.5	2421.7	2412.9	2401.5	2389.0	2381.4
15°	2481.9	2465.6	2451.8	2435.5	2419.1	2409.1	2392.8	2382.7	2366.4	2353.8	2345.0
17.5°	2455.6	2441.7	2426.7	2406.6	2391.5	2379.0	2361.3	2348.8	2333.7	2317.4	2308.6
20°	2427.9	2411.6	2396.5	2376.4	2361.3	2346.3	2328.7	2314.9	2297.3	2282.2	2272.2
22.5°	2391.5	2372.6	2360.1	2340.0	2322.4	2306.1	2289.8	2273.4	2257.1	2244.5	2233.2
25°	2338.7	2318.6	2304.8	2288.5	2272.2	2259.6	2239.5	2229.5	2213.2	2201.8	2190.5
27.5°	2263.4	2248.3	2235.7	2219.4	2205.6	2195.6	2180.5	2170.5	2156.6	2146.6	2137.8
30°	2152.9	2140.3	2129.0	2112.7	2102.6	2093.8	2080.0	2071.2	2061.2	2049.8	2047.4
32.5°	2004.7	1994.6	1983.3	1972.0	1964.4	1959.4	1948.1	1943.1	1933.0	1926.7	1920.5
35°	1781.1	1772.3	1766.0	1761.0	1758.5	1759.7	1757.2	1762.2	1764.7	1763.5	1764.7
37.5°	1488.4	1483.4	1485.9	1489.7	1502.2	1518.6	1533.6	1556.2	1571.3	1586.4	1600.2
40°	1161.8	1165.6	1175.6	1198.2	1230.9	1267.4	1301.3	1344.0	1386.7	1416.8	1444.4
42.5°	876.7	888.0	913.1	945.8	994.8	1048.8	1101.6	1164.3	1215.9	1266.1	1301.3
45°	659.4	674.5	707.1	752.4	806.4	869.2	935.8	1006.1	1067.6	1119.1	1158.1
47.5°	513.7	527.5	560.2	607.9	674.5	739.8	808.9	881.7	945.8	996.0	1030.0
50°	405.7	423.3	452.2	502.4	569.0	638.1	709.7	781.2	841.6	884.3	914.4
52.5°	319.0	335.4	363.0	415.8	483.6	552.7	619.2	689.6	742.3	783.8	803.9
55°	247.4	262.5	291.4	335.4	399.4	467.3	533.8	594.1	643.1	673.2	692.1
57.5°	188.4	199.7	219.8	263.8	321.6	384.3	440.9	501.2	538.9	560.2	572.7
60°	143.2	152.0	173.3	207.3	260.0	314.0	361.7	407.0	437.1	454.7	467.3
62.5°	108.0	118.1	133.1	162.0	202.2	246.2	286.4	320.3	345.4	356.7	365.5
65°	74.1	81.6	93.0	115.5	149.5	180.8	212.3	237.4	253.7	266.3	271.3
67.5°	55.3	60.3	66.6	84.2	108.0	133.1	154.5	172.1	189.7	194.7	203.5
70°	41.5	45.2	51.5	64.1	77.9	95.4	113.1	123.1	135.7	144.4	147.0
72.5°	26.4	27.6	33.9	41.5	52.7	64.1	75.4	84.2	91.7	96.7	99.2
75°	15.1	22.6	22.6	30.1	37.7	42.7	50.3	56.5	60.3	64.1	64.1
77.5°	10.0	13.8	15.1	18.8	22.6	28.9	35.2	38.9	42.7	43.9	43.9
80°	8.8	10.0	10.0	13.8	16.3	21.4	25.1	26.4	28.9	30.1	32.7
82.5°	3.8	5.0	6.3	10.0	11.3	11.3	15.1	16.3	18.8	20.1	20.1
85°	1.2	2.5	2.5	3.8	6.3	7.5	8.8	10.0	11.3	11.3	12.6
87.5°	1.2	1.2	0.0	1.2	2.5	2.5	5.0	5.0	5.0	7.5	7.5
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: P244972

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4	2572.4
2.5°	2549.8	2551.0	2546.0	2544.8	2542.2	2543.5	2546.0
5°	2503.3	2504.5	2499.5	2494.5	2494.5	2493.2	2494.5
7.5°	2459.3	2460.6	2453.0	2450.5	2445.5	2446.8	2446.8
10°	2415.4	2415.4	2404.1	2402.8	2399.0	2397.8	2397.8
12.5°	2372.6	2368.9	2360.1	2355.1	2357.6	2350.1	2350.1
15°	2335.0	2328.7	2317.4	2313.6	2307.4	2304.8	2304.8
17.5°	2296.0	2291.0	2281.0	2273.4	2265.9	2264.6	2265.9
20°	2258.3	2253.3	2240.8	2235.7	2229.5	2229.5	2227.0
22.5°	2220.7	2215.6	2204.4	2200.6	2191.8	2191.8	2193.0
25°	2181.7	2177.9	2165.4	2162.9	2161.7	2156.6	2159.1
27.5°	2129.0	2126.5	2116.4	2112.7	2107.6	2106.4	2108.9
30°	2032.3	2028.5	2021.0	2017.2	2008.4	2009.7	2012.1
32.5°	1911.7	1906.7	1896.6	1892.8	1885.3	1882.8	1884.0
35°	1761.0	1757.2	1748.4	1748.4	1740.9	1738.3	1740.9
37.5°	1607.8	1611.5	1607.8	1611.5	1607.8	1606.5	1607.8
40°	1463.3	1477.1	1479.6	1493.4	1488.4	1495.9	1494.7
42.5°	1325.1	1347.7	1356.5	1367.8	1365.3	1370.3	1374.1
45°	1185.7	1204.5	1213.3	1220.9	1222.1	1224.7	1225.9
47.5°	1053.8	1068.9	1070.1	1078.9	1077.7	1077.7	1081.5
50°	930.7	940.8	943.3	949.6	944.6	942.0	943.3
52.5°	816.4	826.5	823.9	826.5	820.2	817.7	818.9
55°	699.6	704.6	704.6	704.6	697.1	697.1	697.1
57.5°	580.3	581.6	579.0	580.3	579.0	571.5	570.2
60°	471.0	471.0	469.7	471.0	467.3	463.5	463.5
62.5°	368.0	370.5	375.5	370.5	368.0	370.5	366.8
65°	275.1	280.1	278.8	281.3	280.1	280.1	277.6
67.5°	207.3	208.5	209.7	211.0	211.0	211.0	211.0
70°	152.0	155.8	154.5	154.5	154.5	154.5	162.0
72.5°	101.7	106.8	105.5	108.0	108.0	110.5	108.0
75°	69.1	74.1	71.6	75.4	74.1	71.6	77.9
77.5°	46.5	49.0	50.3	51.5	50.3	49.0	50.3
80°	32.7	35.2	33.9	35.2	35.2	35.2	36.4
82.5°	20.1	23.9	22.6	23.9	22.6	23.9	23.9
85°	13.8	15.1	12.6	15.1	13.8	13.8	16.3
87.5°	8.8	7.5	7.5	8.8	7.5	8.8	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)