

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: P244534

Luminaire Tested: **LD8B40D010 ER8B40835 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244534
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 ER8B40835 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4401.0 lumens
Efficiency: N/A
Efficacy: 107.6 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

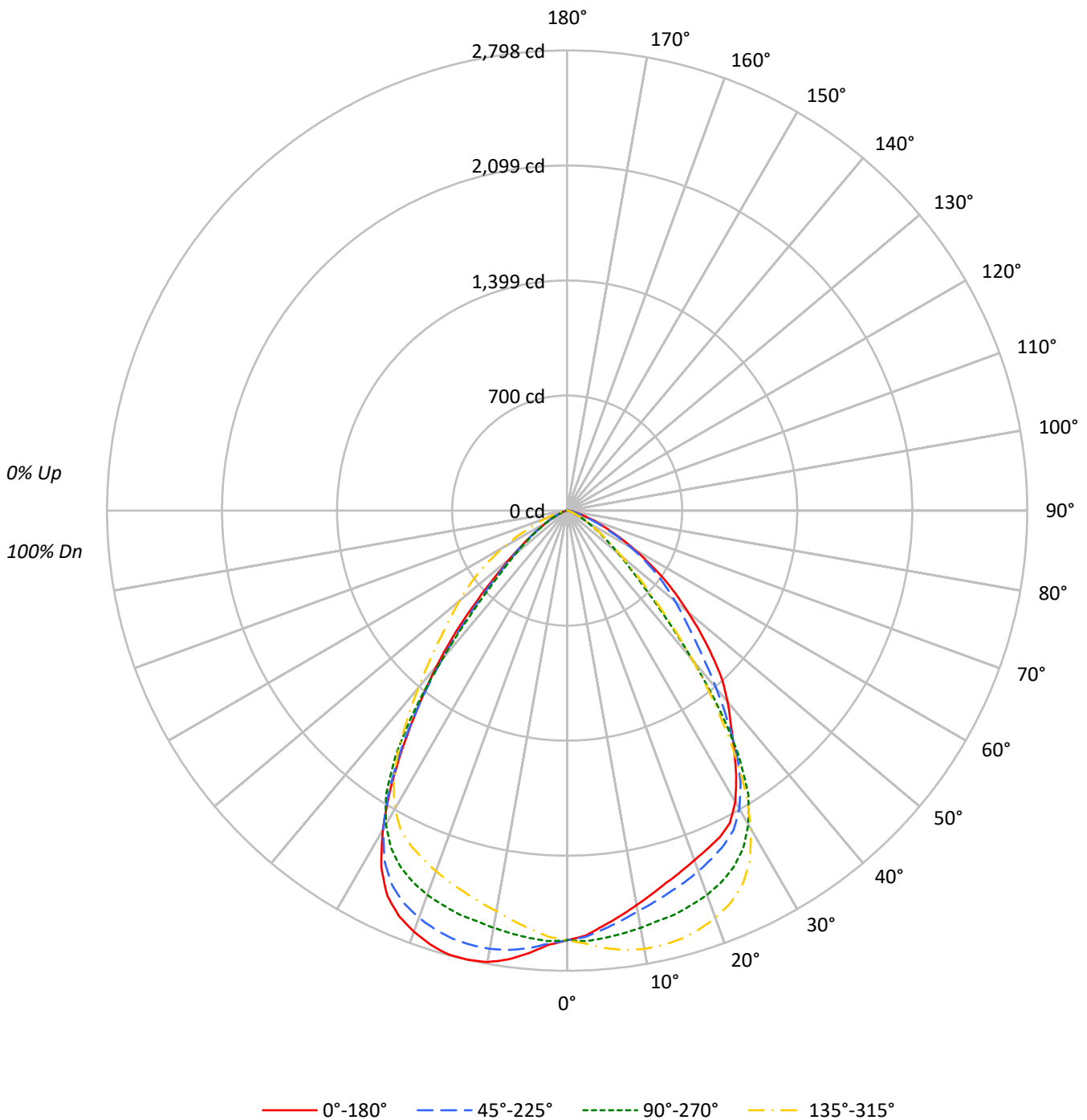
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	80566	80566	80566	80566
5°	78428	80756	83641	80756
10°	76257	80650	87282	80650
15°	74734	81129	89193	81129
20°	74225	81592	89422	81592
25°	74615	81430	87986	81430
30°	72769	78449	79859	78449
35°	66562	68433	64929	68433
40°	61110	47604	49714	47604
45°	54298	29039	33601	29039
50°	45963	19400	21545	19400
55°	38068	13236	13989	13236
60°	29035	8813	8887	8813
65°	20569	5487	5027	5487
70°	14840	3679	3336	3679
75°	9424	1823	1525	1823
80°	6570	1367	1137	1367
85°	5873	0	460	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.7	5.7
10°-20°	720.1	16.4
20°-30°	1090.4	24.8
30°-40°	1092.9	24.8
40°-50°	686.3	15.6
50°-60°	365.7	8.3
60°-70°	150.4	3.4
70°-80°	39.7	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°	2059.3	46.8
0°-40°	3152.2	71.6
0°-60°	4204.2	95.5
0°-90°	4401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4401.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2613	2613	2613	2613	2613	
5°	2534	2609	2702	2609	2534	239
15°	2341	2541	2794	2541	2341	662
25°	2193	2393	2586	2393	2193	1006
35°	1768	1818	1725	1818	1768	1108
45°	1245	666	770	666	1245	958
55°	708	246	260	246	708	631
65°	282	75	69	75	282	292
75°	79	15	13	15	79	90
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°	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7
2.5°	2586.0	2583.4	2582.1	2584.7	2586.0	2591.0	2589.8	2592.3	2592.3	2593.6	2596.1
5°	2533.7	2532.3	2533.7	2533.7	2538.7	2543.8	2542.6	2546.4	2548.9	2555.3	2557.9
7.5°	2485.2	2485.2	2483.9	2489.0	2491.5	2499.2	2497.9	2504.3	2508.1	2514.5	2523.4
10°	2435.4	2435.4	2436.7	2440.5	2441.8	2453.3	2453.3	2462.2	2467.3	2473.7	2485.2
12.5°	2386.9	2386.9	2394.6	2392.0	2397.1	2406.1	2409.9	2418.8	2426.5	2439.2	2450.7
15°	2341.0	2341.0	2343.6	2349.9	2353.8	2365.3	2371.6	2381.8	2390.8	2403.5	2420.1
17.5°	2301.4	2300.2	2301.4	2309.1	2316.8	2327.0	2332.1	2344.8	2353.8	2370.3	2385.7
20°	2261.9	2264.5	2264.5	2270.8	2275.9	2288.7	2293.8	2307.9	2318.0	2333.3	2351.2
22.5°	2227.5	2226.2	2226.2	2235.1	2239.0	2250.4	2255.5	2268.3	2279.8	2292.5	2309.1
25°	2193.0	2190.4	2195.6	2196.8	2199.4	2212.1	2216.0	2224.9	2236.4	2247.9	2264.5
27.5°	2142.0	2139.5	2140.7	2145.8	2149.6	2159.8	2162.4	2171.3	2180.3	2190.4	2204.5
30°	2043.7	2041.2	2039.9	2048.9	2052.7	2060.3	2064.2	2079.5	2082.0	2093.5	2103.7
32.5°	1913.6	1912.3	1914.9	1922.5	1926.4	1936.6	1941.7	1950.6	1957.0	1963.4	1973.6
35°	1768.2	1765.6	1768.2	1775.9	1775.9	1784.8	1788.6	1792.4	1791.1	1792.4	1789.9
37.5°	1633.0	1631.7	1633.0	1636.8	1633.0	1636.8	1633.0	1625.3	1611.3	1596.0	1580.6
40°	1518.1	1519.4	1511.8	1516.9	1502.8	1500.3	1486.3	1467.1	1439.1	1408.4	1365.1
42.5°	1395.7	1391.9	1386.8	1389.3	1377.8	1368.9	1345.9	1321.7	1285.9	1235.0	1182.6
45°	1245.1	1243.9	1241.3	1240.0	1232.4	1223.5	1204.3	1176.2	1136.7	1084.4	1021.9
47.5°	1098.4	1094.6	1094.6	1095.9	1086.9	1085.7	1070.3	1046.1	1011.7	960.6	895.6
50°	958.1	956.8	959.4	964.5	958.1	955.5	945.4	928.8	898.1	854.8	793.5
52.5°	831.8	830.5	833.1	839.4	836.9	839.4	829.3	816.5	796.1	754.0	700.4
55°	708.1	708.1	708.1	715.7	715.7	715.7	710.6	703.0	683.8	653.2	603.5
57.5°	579.2	580.5	588.1	589.4	588.1	590.7	589.4	581.7	569.0	547.3	509.0
60°	470.8	470.8	474.6	478.4	477.1	478.4	478.4	474.6	461.8	444.0	413.4
62.5°	372.5	376.3	373.8	376.3	381.4	376.3	373.8	371.3	362.3	350.8	325.3
65°	281.9	284.5	284.5	285.8	283.2	284.5	279.4	275.6	270.5	257.7	241.1
67.5°	214.3	214.3	214.3	214.3	213.0	211.8	210.5	206.7	197.8	192.7	174.8
70°	164.6	156.9	156.9	156.9	156.9	158.2	154.4	149.3	146.7	137.8	125.0
72.5°	109.7	112.3	109.7	109.7	107.2	108.4	103.3	100.8	98.2	93.2	85.5
75°	79.1	72.7	75.2	76.6	72.7	75.2	70.2	65.1	65.1	61.2	57.4
77.5°	51.0	49.8	51.0	52.3	51.0	49.8	47.2	44.6	44.6	43.4	39.5
80°	37.0	35.7	35.7	35.7	34.4	35.7	33.2	33.2	30.6	29.4	26.8
82.5°	24.3	24.3	22.9	24.3	22.9	24.3	20.4	20.4	20.4	19.1	16.6
85°	16.6	14.0	14.0	15.3	12.8	15.3	14.0	12.8	11.5	11.5	10.2
87.5°	7.7	8.9	7.7	8.9	7.7	7.7	8.9	7.7	7.7	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°	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7
2.5°	2600.0	2601.2	2601.2	2606.4	2608.9	2610.2	2610.2	2620.4	2616.6	2619.1	2621.7
5°	2563.0	2570.6	2573.2	2573.2	2587.2	2592.3	2597.4	2608.9	2610.2	2617.8	2626.8
7.5°	2527.2	2536.2	2541.3	2552.8	2561.7	2570.6	2586.0	2593.6	2601.2	2611.5	2622.9
10°	2492.8	2503.0	2513.2	2522.2	2536.2	2547.7	2557.9	2575.7	2584.7	2598.7	2614.0
12.5°	2459.7	2473.7	2482.6	2497.9	2513.2	2523.4	2538.7	2555.3	2569.4	2583.4	2601.2
15°	2430.3	2446.9	2457.1	2473.7	2490.3	2504.3	2520.9	2541.3	2551.5	2568.1	2584.7
17.5°	2398.4	2416.3	2429.1	2444.3	2464.8	2480.0	2494.1	2514.5	2527.2	2545.1	2564.3
20°	2365.3	2383.1	2398.4	2413.7	2434.1	2449.4	2466.0	2486.4	2500.5	2518.3	2533.7
22.5°	2325.7	2342.3	2358.8	2376.7	2397.1	2409.9	2429.1	2446.9	2462.2	2478.8	2494.1
25°	2274.7	2295.1	2307.9	2324.4	2341.0	2355.0	2375.4	2393.3	2406.1	2421.4	2435.4
27.5°	2214.7	2230.0	2240.2	2254.2	2270.8	2283.6	2298.9	2316.8	2329.5	2343.6	2353.8
30°	2112.6	2126.7	2135.6	2145.8	2162.4	2173.9	2186.7	2203.2	2212.1	2222.4	2231.3
32.5°	1978.7	1990.2	1995.3	2002.9	2014.4	2025.9	2036.1	2050.1	2054.0	2060.3	2060.3
35°	1784.8	1787.3	1786.1	1788.6	1793.7	1800.1	1809.0	1817.9	1823.0	1823.0	1819.2
37.5°	1557.7	1542.4	1525.8	1513.1	1509.2	1506.6	1511.8	1515.6	1520.7	1523.2	1516.9
40°	1321.7	1287.3	1250.2	1217.0	1194.1	1183.9	1180.1	1182.6	1182.6	1191.5	1191.5
42.5°	1118.9	1065.2	1010.4	960.6	927.4	902.0	890.5	890.5	891.7	898.1	902.0
45°	950.4	882.8	819.0	764.2	718.2	685.1	669.8	665.9	664.7	667.2	676.1
47.5°	821.6	751.4	685.1	617.5	569.0	535.8	521.8	516.7	511.6	516.7	518.0
50°	720.8	648.1	577.9	510.3	459.3	429.9	412.1	404.4	403.1	403.1	405.7
52.5°	628.9	561.3	491.2	422.3	368.7	340.6	324.0	320.2	315.1	320.2	320.2
55°	542.2	474.6	405.7	340.6	296.0	266.7	251.3	246.2	243.7	247.5	247.5
57.5°	447.8	390.4	326.6	267.9	223.3	202.8	191.3	185.0	183.7	186.3	183.7
60°	367.4	319.0	264.1	210.5	176.1	154.4	145.5	142.9	140.3	142.9	142.9
62.5°	290.9	250.1	205.4	164.6	135.2	119.9	109.7	109.7	108.4	108.4	109.7
65°	215.6	183.7	151.8	117.4	94.4	82.9	75.2	75.2	74.0	75.2	74.0
67.5°	156.9	135.2	109.7	85.5	67.6	61.2	56.1	52.3	54.9	52.3	51.0
70°	114.8	96.9	79.1	65.1	52.3	45.9	42.1	40.8	38.3	38.3	38.3
72.5°	76.6	65.1	53.6	42.1	34.4	28.0	26.8	24.3	21.7	22.9	25.5
75°	51.0	43.4	38.3	30.6	22.9	22.9	15.3	15.3	12.8	15.3	11.5
77.5°	35.7	29.4	22.9	19.1	15.3	14.0	10.2	10.2	8.9	8.9	8.9
80°	25.5	21.7	16.6	14.0	10.2	10.2	8.9	7.7	6.4	6.4	7.7
82.5°	15.3	11.5	11.5	10.2	6.4	5.1	3.8	5.1	2.6	2.6	2.6
85°	8.9	7.7	6.4	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°	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7
2.5°	2628.1	2626.8	2629.3	2629.3	2637.0	2635.7	2639.5	2639.5	2637.0	2638.3	2643.3
5°	2637.0	2640.8	2648.4	2654.8	2666.3	2671.4	2677.8	2684.2	2685.5	2689.3	2693.1
7.5°	2637.0	2649.8	2658.7	2670.1	2685.5	2694.4	2708.4	2719.9	2725.0	2731.4	2739.0
10°	2631.8	2644.6	2661.2	2674.0	2693.1	2707.1	2721.2	2739.0	2746.7	2756.9	2767.1
12.5°	2621.7	2635.7	2653.5	2670.1	2691.8	2704.6	2722.4	2739.0	2750.5	2764.5	2776.0
15°	2606.4	2622.9	2639.5	2656.1	2679.1	2694.4	2711.0	2730.1	2741.6	2756.9	2767.1
17.5°	2582.1	2600.0	2615.3	2630.6	2652.3	2670.1	2685.5	2703.3	2714.8	2727.6	2741.6
20°	2552.8	2569.4	2586.0	2598.7	2620.4	2635.7	2652.3	2668.9	2677.8	2680.4	2702.1
22.5°	2515.8	2527.2	2540.0	2560.4	2573.2	2587.2	2602.5	2617.8	2626.8	2640.8	2648.4
25°	2454.5	2466.0	2480.0	2489.0	2504.3	2515.8	2531.1	2547.7	2552.8	2563.0	2570.6
27.5°	2369.1	2375.4	2381.8	2389.5	2398.4	2404.8	2413.7	2421.4	2426.5	2431.6	2436.7
30°	2233.8	2233.8	2233.8	2228.7	2232.6	2236.4	2237.6	2236.4	2236.4	2235.1	2235.1
32.5°	2055.2	2045.0	2033.5	2023.4	2019.5	2014.4	2011.9	2008.0	2001.7	1997.8	1999.1
35°	1814.1	1791.1	1777.1	1764.4	1754.2	1746.5	1742.7	1738.8	1737.6	1732.5	1727.3
37.5°	1513.1	1496.5	1486.3	1478.6	1469.7	1462.0	1463.3	1464.6	1468.4	1465.8	1467.1
40°	1194.1	1190.3	1194.1	1185.2	1182.6	1185.2	1191.5	1200.5	1205.6	1210.7	1219.6
42.5°	908.3	914.7	923.7	923.7	927.4	932.6	940.2	954.3	961.9	970.8	981.1
45°	683.8	691.5	703.0	706.7	709.3	715.7	724.7	736.1	741.2	748.9	757.8
47.5°	526.9	532.0	538.3	544.7	551.1	553.7	562.6	562.6	569.0	574.1	576.6
50°	410.8	415.9	421.0	424.8	427.4	431.2	433.7	437.6	438.8	441.4	442.7
52.5°	321.5	327.9	327.9	330.4	334.2	338.1	336.8	338.1	339.3	339.3	343.2
55°	251.3	251.3	255.2	255.2	257.7	256.4	257.7	257.7	257.7	257.7	259.0
57.5°	187.5	188.8	192.7	190.1	188.8	191.3	188.8	191.3	190.1	192.7	188.8
60°	144.1	144.1	145.5	145.5	146.7	146.7	146.7	145.5	145.5	144.1	144.1
62.5°	108.4	109.7	111.0	109.7	109.7	109.7	108.4	108.4	107.2	105.9	105.9
65°	72.7	71.5	74.0	71.5	72.7	72.7	71.5	72.7	68.9	70.2	68.9
67.5°	52.3	51.0	49.8	51.0	49.8	48.5	48.5	49.8	51.0	47.2	47.2
70°	34.4	35.7	34.4	35.7	37.0	37.0	35.7	34.4	35.7	33.2	34.4
72.5°	21.7	21.7	21.7	21.7	21.7	22.9	22.9	22.9	20.4	20.4	19.1
75°	10.2	14.0	11.5	10.2	14.0	14.0	12.8	12.8	11.5	11.5	11.5
77.5°	10.2	7.7	7.7	7.7	7.7	7.7	7.7	7.7	6.4	7.7	6.4
80°	5.1	5.1	5.1	3.8	5.1	5.1	6.4	5.1	5.1	3.8	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: P244534

CATALOG NUMBER: LD8B40D010 ER8B40835 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7
2.5°	2642.1	2640.8	2642.1	2643.3	2642.1	2640.8	2642.1	2643.3	2638.3	2637.0	2639.5
5°	2698.2	2698.2	2700.7	2702.1	2700.7	2698.2	2698.2	2693.1	2689.3	2685.5	2684.2
7.5°	2746.7	2749.3	2751.8	2753.0	2751.8	2749.3	2746.7	2739.0	2731.4	2725.0	2719.9
10°	2776.0	2779.9	2785.0	2787.5	2785.0	2779.9	2776.0	2767.1	2756.9	2746.7	2739.0
12.5°	2788.8	2792.6	2799.0	2797.7	2799.0	2792.6	2788.8	2776.0	2764.5	2750.5	2739.0
15°	2779.9	2785.0	2791.3	2793.9	2791.3	2785.0	2779.9	2767.1	2756.9	2741.6	2730.1
17.5°	2751.8	2759.4	2763.3	2767.1	2763.3	2759.4	2751.8	2741.6	2727.6	2714.8	2703.3
20°	2713.5	2718.6	2723.7	2725.0	2723.7	2718.6	2713.5	2702.1	2680.4	2677.8	2668.9
22.5°	2658.7	2662.5	2674.0	2670.1	2674.0	2662.5	2658.7	2648.4	2640.8	2626.8	2617.8
25°	2579.5	2583.4	2584.7	2586.0	2584.7	2583.4	2579.5	2570.6	2563.0	2552.8	2547.7
27.5°	2443.1	2443.1	2445.6	2446.9	2445.6	2443.1	2443.1	2436.7	2431.6	2426.5	2421.4
30°	2236.4	2236.4	2236.4	2242.8	2236.4	2236.4	2236.4	2235.1	2235.1	2236.4	2236.4
32.5°	1997.8	1995.3	1992.7	1995.3	1992.7	1995.3	1997.8	1999.1	1997.8	2001.7	2008.0
35°	1727.3	1726.1	1729.9	1724.8	1729.9	1726.1	1727.3	1727.3	1732.5	1737.6	1738.8
37.5°	1468.4	1465.8	1470.9	1465.8	1470.9	1465.8	1468.4	1467.1	1465.8	1468.4	1464.6
40°	1222.2	1224.7	1224.7	1235.0	1224.7	1224.7	1222.2	1219.6	1210.7	1205.6	1200.5
42.5°	986.2	993.8	991.2	998.9	991.2	993.8	986.2	981.1	970.8	961.9	954.3
45°	762.9	768.0	768.0	770.5	768.0	768.0	762.9	757.8	748.9	741.2	736.1
47.5°	585.5	585.5	585.5	586.9	585.5	585.5	585.5	576.6	574.1	569.0	562.6
50°	445.2	446.5	447.8	449.1	447.8	446.5	445.2	442.7	441.4	438.8	437.6
52.5°	341.9	343.2	340.6	343.2	340.6	343.2	341.9	343.2	339.3	339.3	338.1
55°	259.0	257.7	259.0	260.2	259.0	257.7	259.0	259.0	257.7	257.7	257.7
57.5°	190.1	187.5	187.5	187.5	187.5	187.5	190.1	188.8	192.7	190.1	191.3
60°	141.6	142.9	142.9	144.1	142.9	142.9	141.6	144.1	144.1	145.5	145.5
62.5°	104.6	108.4	105.9	108.4	105.9	108.4	104.6	105.9	105.9	107.2	108.4
65°	67.6	67.6	67.6	68.9	67.6	67.6	67.6	68.9	70.2	68.9	72.7
67.5°	45.9	47.2	49.8	48.5	49.8	47.2	45.9	47.2	47.2	51.0	49.8
70°	37.0	33.2	33.2	37.0	33.2	33.2	37.0	34.4	33.2	35.7	34.4
72.5°	21.7	19.1	21.7	21.7	21.7	19.1	21.7	19.1	20.4	20.4	22.9
75°	11.5	10.2	8.9	12.8	8.9	10.2	11.5	11.5	11.5	11.5	12.8
77.5°	7.7	6.4	8.9	8.9	8.9	6.4	7.7	6.4	7.7	6.4	7.7
80°	3.8	5.1	3.8	6.4	3.8	5.1	3.8	6.4	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: P244534

CATALOG NUMBER: LD8B40D010 ER8B40835 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7
2.5°	2639.5	2635.7	2637.0	2629.3	2629.3	2626.8	2628.1	2621.7	2619.1	2616.6	2620.4
5°	2677.8	2671.4	2666.3	2654.8	2648.4	2640.8	2637.0	2626.8	2617.8	2610.2	2608.9
7.5°	2708.4	2694.4	2685.5	2670.1	2658.7	2649.8	2637.0	2622.9	2611.5	2601.2	2593.6
10°	2721.2	2707.1	2693.1	2674.0	2661.2	2644.6	2631.8	2614.0	2598.7	2584.7	2575.7
12.5°	2722.4	2704.6	2691.8	2670.1	2653.5	2635.7	2621.7	2601.2	2583.4	2569.4	2555.3
15°	2711.0	2694.4	2679.1	2656.1	2639.5	2622.9	2606.4	2584.7	2568.1	2551.5	2541.3
17.5°	2685.5	2670.1	2652.3	2630.6	2615.3	2600.0	2582.1	2564.3	2545.1	2527.2	2514.5
20°	2652.3	2635.7	2620.4	2598.7	2586.0	2569.4	2552.8	2533.7	2518.3	2500.5	2486.4
22.5°	2602.5	2587.2	2573.2	2560.4	2540.0	2527.2	2515.8	2494.1	2478.8	2462.2	2446.9
25°	2531.1	2515.8	2504.3	2489.0	2480.0	2466.0	2454.5	2435.4	2421.4	2406.1	2393.3
27.5°	2413.7	2404.8	2398.4	2389.5	2381.8	2375.4	2369.1	2353.8	2343.6	2329.5	2316.8
30°	2237.6	2236.4	2232.6	2228.7	2233.8	2233.8	2233.8	2231.3	2222.4	2212.1	2203.2
32.5°	2011.9	2014.4	2019.5	2023.4	2033.5	2045.0	2055.2	2060.3	2060.3	2054.0	2050.1
35°	1742.7	1746.5	1754.2	1764.4	1777.1	1791.1	1814.1	1819.2	1823.0	1823.0	1817.9
37.5°	1463.3	1462.0	1469.7	1478.6	1486.3	1496.5	1513.1	1516.9	1523.2	1520.7	1515.6
40°	1191.5	1185.2	1182.6	1185.2	1194.1	1190.3	1194.1	1191.5	1191.5	1182.6	1182.6
42.5°	940.2	932.6	927.4	923.7	923.7	914.7	908.3	902.0	898.1	891.7	890.5
45°	724.7	715.7	709.3	706.7	703.0	691.5	683.8	676.1	667.2	664.7	665.9
47.5°	562.6	553.7	551.1	544.7	538.3	532.0	526.9	518.0	516.7	511.6	516.7
50°	433.7	431.2	427.4	424.8	421.0	415.9	410.8	405.7	403.1	403.1	404.4
52.5°	336.8	338.1	334.2	330.4	327.9	327.9	321.5	320.2	320.2	315.1	320.2
55°	257.7	256.4	257.7	255.2	255.2	251.3	251.3	247.5	247.5	243.7	246.2
57.5°	188.8	191.3	188.8	190.1	192.7	188.8	187.5	183.7	186.3	183.7	185.0
60°	146.7	146.7	146.7	145.5	145.5	144.1	144.1	142.9	142.9	140.3	142.9
62.5°	108.4	109.7	109.7	109.7	111.0	109.7	108.4	109.7	108.4	108.4	109.7
65°	71.5	72.7	72.7	71.5	74.0	71.5	72.7	74.0	75.2	74.0	75.2
67.5°	48.5	48.5	49.8	51.0	49.8	51.0	52.3	51.0	52.3	54.9	52.3
70°	35.7	37.0	37.0	35.7	34.4	35.7	34.4	38.3	38.3	38.3	40.8
72.5°	22.9	22.9	21.7	21.7	21.7	21.7	21.7	25.5	22.9	21.7	24.3
75°	12.8	14.0	14.0	10.2	11.5	14.0	10.2	11.5	15.3	12.8	15.3
77.5°	7.7	7.7	7.7	7.7	7.7	7.7	10.2	8.9	8.9	8.9	10.2
80°	6.4	5.1	5.1	3.8	5.1	5.1	5.1	7.7	6.4	6.4	7.7
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: P244534

CATALOG NUMBER: LD8B40D010 ER8B40835 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7
2.5°	2610.2	2610.2	2608.9	2606.4	2601.2	2601.2	2600.0	2596.1	2593.6	2592.3	2592.3
5°	2597.4	2592.3	2587.2	2573.2	2573.2	2570.6	2563.0	2557.9	2555.3	2548.9	2546.4
7.5°	2586.0	2570.6	2561.7	2552.8	2541.3	2536.2	2527.2	2523.4	2514.5	2508.1	2504.3
10°	2557.9	2547.7	2536.2	2522.2	2513.2	2503.0	2492.8	2485.2	2473.7	2467.3	2462.2
12.5°	2538.7	2523.4	2513.2	2497.9	2482.6	2473.7	2459.7	2450.7	2439.2	2426.5	2418.8
15°	2520.9	2504.3	2490.3	2473.7	2457.1	2446.9	2430.3	2420.1	2403.5	2390.8	2381.8
17.5°	2494.1	2480.0	2464.8	2444.3	2429.1	2416.3	2398.4	2385.7	2370.3	2353.8	2344.8
20°	2466.0	2449.4	2434.1	2413.7	2398.4	2383.1	2365.3	2351.2	2333.3	2318.0	2307.9
22.5°	2429.1	2409.9	2397.1	2376.7	2358.8	2342.3	2325.7	2309.1	2292.5	2279.8	2268.3
25°	2375.4	2355.0	2341.0	2324.4	2307.9	2295.1	2274.7	2264.5	2247.9	2236.4	2224.9
27.5°	2298.9	2283.6	2270.8	2254.2	2240.2	2230.0	2214.7	2204.5	2190.4	2180.3	2171.3
30°	2186.7	2173.9	2162.4	2145.8	2135.6	2126.7	2112.6	2103.7	2093.5	2082.0	2079.5
32.5°	2036.1	2025.9	2014.4	2002.9	1995.3	1990.2	1978.7	1973.6	1963.4	1957.0	1950.6
35°	1809.0	1800.1	1793.7	1788.6	1786.1	1787.3	1784.8	1789.9	1792.4	1791.1	1792.4
37.5°	1511.8	1506.6	1509.2	1513.1	1525.8	1542.4	1557.7	1580.6	1596.0	1611.3	1625.3
40°	1180.1	1183.9	1194.1	1217.0	1250.2	1287.3	1321.7	1365.1	1408.4	1439.1	1467.1
42.5°	890.5	902.0	927.4	960.6	1010.4	1065.2	1118.9	1182.6	1235.0	1285.9	1321.7
45°	669.8	685.1	718.2	764.2	819.0	882.8	950.4	1021.9	1084.4	1136.7	1176.2
47.5°	521.8	535.8	569.0	617.5	685.1	751.4	821.6	895.6	960.6	1011.7	1046.1
50°	412.1	429.9	459.3	510.3	577.9	648.1	720.8	793.5	854.8	898.1	928.8
52.5°	324.0	340.6	368.7	422.3	491.2	561.3	628.9	700.4	754.0	796.1	816.5
55°	251.3	266.7	296.0	340.6	405.7	474.6	542.2	603.5	653.2	683.8	703.0
57.5°	191.3	202.8	223.3	267.9	326.6	390.4	447.8	509.0	547.3	569.0	581.7
60°	145.5	154.4	176.1	210.5	264.1	319.0	367.4	413.4	444.0	461.8	474.6
62.5°	109.7	119.9	135.2	164.6	205.4	250.1	290.9	325.3	350.8	362.3	371.3
65°	75.2	82.9	94.4	117.4	151.8	183.7	215.6	241.1	257.7	270.5	275.6
67.5°	56.1	61.2	67.6	85.5	109.7	135.2	156.9	174.8	192.7	197.8	206.7
70°	42.1	45.9	52.3	65.1	79.1	96.9	114.8	125.0	137.8	146.7	149.3
72.5°	26.8	28.0	34.4	42.1	53.6	65.1	76.6	85.5	93.2	98.2	100.8
75°	15.3	22.9	22.9	30.6	38.3	43.4	51.0	57.4	61.2	65.1	65.1
77.5°	10.2	14.0	15.3	19.1	22.9	29.4	35.7	39.5	43.4	44.6	44.6
80°	8.9	10.2	10.2	14.0	16.6	21.7	25.5	26.8	29.4	30.6	33.2
82.5°	3.8	5.1	6.4	10.2	11.5	11.5	15.3	16.6	19.1	20.4	20.4
85°	1.3	2.6	2.6	3.8	6.4	7.7	8.9	10.2	11.5	11.5	12.8
87.5°	1.3	1.3	0.0	1.3	2.6	2.6	5.1	5.1	5.1	7.7	7.7
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: P244534

CATALOG NUMBER: LD8B40D010 ER8B40835 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7	2612.7
2.5°	2589.8	2591.0	2586.0	2584.7	2582.1	2583.4	2586.0
5°	2542.6	2543.8	2538.7	2533.7	2533.7	2532.3	2533.7
7.5°	2497.9	2499.2	2491.5	2489.0	2483.9	2485.2	2485.2
10°	2453.3	2453.3	2441.8	2440.5	2436.7	2435.4	2435.4
12.5°	2409.9	2406.1	2397.1	2392.0	2394.6	2386.9	2386.9
15°	2371.6	2365.3	2353.8	2349.9	2343.6	2341.0	2341.0
17.5°	2332.1	2327.0	2316.8	2309.1	2301.4	2300.2	2301.4
20°	2293.8	2288.7	2275.9	2270.8	2264.5	2264.5	2261.9
22.5°	2255.5	2250.4	2239.0	2235.1	2226.2	2226.2	2227.5
25°	2216.0	2212.1	2199.4	2196.8	2195.6	2190.4	2193.0
27.5°	2162.4	2159.8	2149.6	2145.8	2140.7	2139.5	2142.0
30°	2064.2	2060.3	2052.7	2048.9	2039.9	2041.2	2043.7
32.5°	1941.7	1936.6	1926.4	1922.5	1914.9	1912.3	1913.6
35°	1788.6	1784.8	1775.9	1775.9	1768.2	1765.6	1768.2
37.5°	1633.0	1636.8	1633.0	1636.8	1633.0	1631.7	1633.0
40°	1486.3	1500.3	1502.8	1516.9	1511.8	1519.4	1518.1
42.5°	1345.9	1368.9	1377.8	1389.3	1386.8	1391.9	1395.7
45°	1204.3	1223.5	1232.4	1240.0	1241.3	1243.9	1245.1
47.5°	1070.3	1085.7	1086.9	1095.9	1094.6	1094.6	1098.4
50°	945.4	955.5	958.1	964.5	959.4	956.8	958.1
52.5°	829.3	839.4	836.9	839.4	833.1	830.5	831.8
55°	710.6	715.7	715.7	715.7	708.1	708.1	708.1
57.5°	589.4	590.7	588.1	589.4	588.1	580.5	579.2
60°	478.4	478.4	477.1	478.4	474.6	470.8	470.8
62.5°	373.8	376.3	381.4	376.3	373.8	376.3	372.5
65°	279.4	284.5	283.2	285.8	284.5	284.5	281.9
67.5°	210.5	211.8	213.0	214.3	214.3	214.3	214.3
70°	154.4	158.2	156.9	156.9	156.9	156.9	164.6
72.5°	103.3	108.4	107.2	109.7	109.7	112.3	109.7
75°	70.2	75.2	72.7	76.6	75.2	72.7	79.1
77.5°	47.2	49.8	51.0	52.3	51.0	49.8	51.0
80°	33.2	35.7	34.4	35.7	35.7	35.7	37.0
82.5°	20.4	24.3	22.9	24.3	22.9	24.3	24.3
85°	14.0	15.3	12.8	15.3	14.0	14.0	16.6
87.5°	8.9	7.7	7.7	8.9	7.7	8.9	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)