

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: P245986

Luminaire Tested: **LD8B40D010 ER8B40850 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245986
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 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4411.0 lumens
Efficiency: N/A
Efficacy: 107.8 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

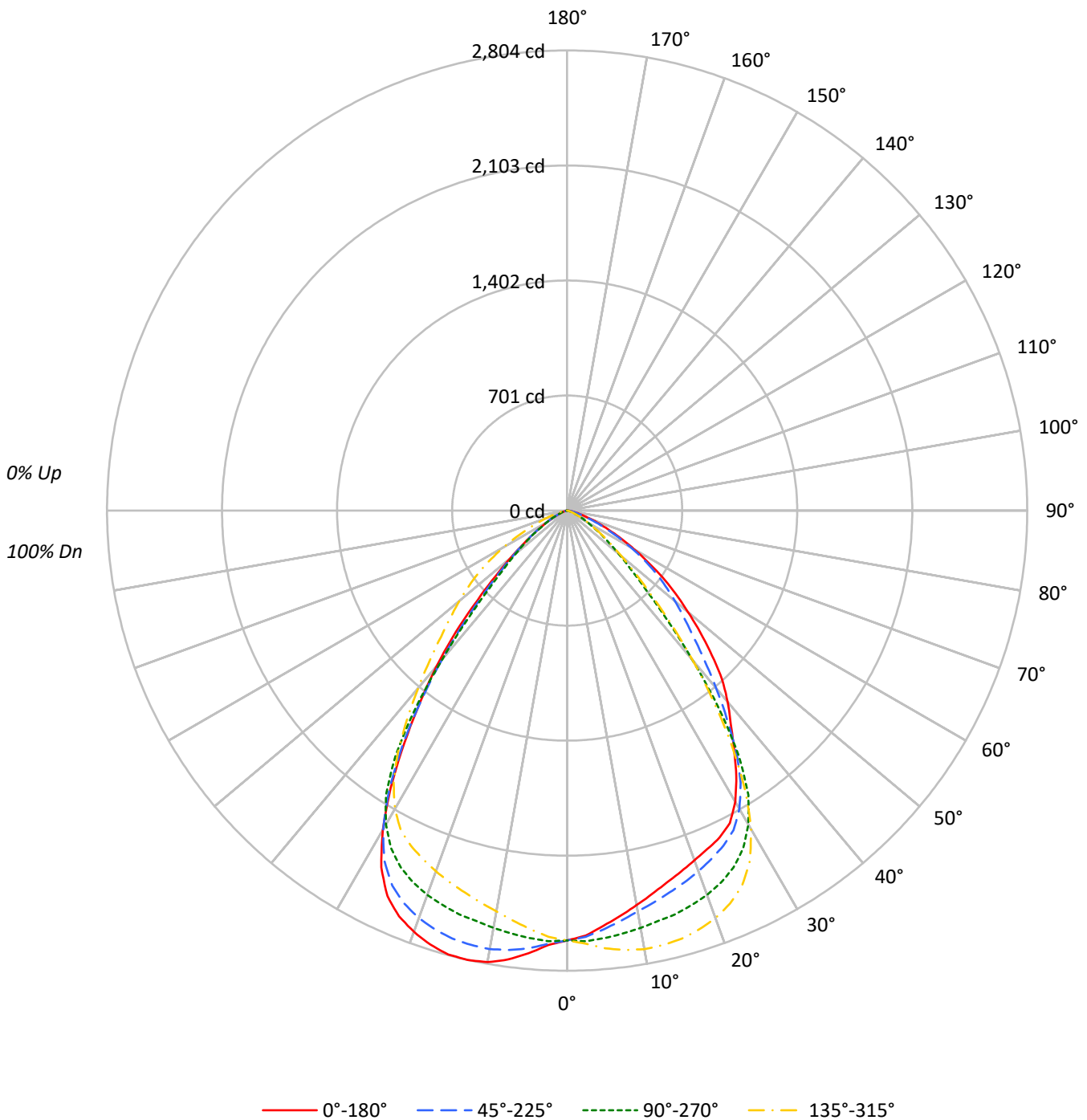
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	80751	80751	80751	80751
5°	78605	80939	83830	80939
10°	76429	80835	87480	80835
15°	74904	81314	89394	81314
20°	74392	81779	89625	81779
25°	74785	81614	88184	81614
30°	72937	78627	80040	78627
35°	66713	68591	65076	68591
40°	61250	47713	49826	47713
45°	54424	29109	33679	29109
50°	46063	19443	21593	19443
55°	38155	13268	14021	13268
60°	29097	8832	8912	8832
65°	20620	5502	5042	5502
70°	14867	3688	3345	3688
75°	9448	1835	1525	1835
80°	6588	1367	1137	1367
85°	5873	0	460	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.2	5.7
10°-20°	721.8	16.4
20°-30°	1092.9	24.8
30°-40°	1095.4	24.8
40°-50°	687.8	15.6
50°-60°	366.5	8.3
60°-70°	150.7	3.4
70°-80°	39.8	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°	2063.9	46.8
0°-40°	3159.3	71.6
0°-60°	4213.7	95.5
0°-90°	4411.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4411.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2619	2619	2619	2619	2619	
5°	2539	2615	2708	2615	2539	239
15°	2346	2547	2800	2547	2346	664
25°	2198	2399	2592	2399	2198	1008
35°	1772	1822	1729	1822	1772	1110
45°	1248	668	772	668	1248	960
55°	710	247	261	247	710	633
65°	283	75	69	75	283	293
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°	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7
2.5°	2591.8	2589.3	2588.0	2590.6	2591.8	2596.9	2595.7	2598.2	2598.2	2599.5	2602.0
5°	2539.4	2538.1	2539.4	2539.4	2544.5	2549.6	2548.4	2552.2	2554.7	2561.1	2563.7
7.5°	2490.8	2490.8	2489.5	2494.6	2497.2	2504.9	2503.6	2510.0	2513.8	2520.2	2529.1
10°	2440.9	2440.9	2442.2	2446.0	2447.4	2458.8	2458.8	2467.8	2472.9	2479.3	2490.8
12.5°	2392.4	2392.4	2400.0	2397.5	2402.6	2411.5	2415.4	2424.3	2432.0	2444.8	2456.3
15°	2346.3	2346.3	2348.9	2355.3	2359.1	2370.6	2377.0	2387.3	2396.2	2409.0	2425.6
17.5°	2306.7	2305.4	2306.7	2314.4	2322.0	2332.3	2337.4	2350.2	2359.1	2375.7	2391.1
20°	2267.0	2269.6	2269.6	2276.0	2281.1	2293.9	2299.0	2313.1	2323.3	2338.6	2356.6
22.5°	2232.5	2231.3	2231.3	2240.2	2244.0	2255.5	2260.6	2273.4	2284.9	2297.7	2314.4
25°	2198.0	2195.4	2200.6	2201.8	2204.4	2217.2	2221.0	2229.9	2241.5	2253.0	2269.6
27.5°	2146.8	2144.3	2145.6	2150.7	2154.5	2164.7	2167.3	2176.3	2185.2	2195.4	2209.5
30°	2048.4	2045.8	2044.6	2053.5	2057.4	2065.0	2068.8	2084.2	2086.7	2098.3	2108.5
32.5°	1918.0	1916.7	1919.3	1926.9	1930.7	1941.0	1946.1	1955.1	1961.4	1967.8	1978.1
35°	1772.2	1769.6	1772.2	1779.9	1779.9	1788.8	1792.7	1796.5	1795.2	1796.5	1794.0
37.5°	1636.7	1635.4	1636.7	1640.5	1636.7	1640.5	1636.7	1629.0	1615.0	1599.6	1584.2
40°	1521.6	1522.9	1515.2	1520.3	1506.2	1503.7	1489.6	1470.4	1442.3	1411.6	1368.2
42.5°	1398.9	1395.0	1389.9	1392.4	1381.0	1372.0	1349.0	1324.7	1288.9	1237.8	1185.3
45°	1248.0	1246.7	1244.1	1242.9	1235.2	1226.2	1207.0	1178.9	1139.3	1086.9	1024.2
47.5°	1100.9	1097.1	1097.1	1098.3	1089.4	1088.1	1072.8	1048.5	1014.0	962.8	897.6
50°	960.2	959.0	961.6	966.7	960.2	957.7	947.5	930.9	900.2	856.7	795.3
52.5°	833.7	832.4	835.0	841.3	838.8	841.3	831.1	818.3	797.9	755.7	702.0
55°	709.7	709.7	709.7	717.3	717.3	717.3	712.2	704.6	685.4	654.7	604.8
57.5°	580.5	581.8	589.5	590.7	589.5	592.0	590.7	583.0	570.3	548.6	510.2
60°	471.8	471.8	475.7	479.5	478.2	479.5	479.5	475.7	462.9	445.0	414.3
62.5°	373.4	377.2	374.6	377.2	382.3	377.2	374.6	372.1	363.1	351.6	326.0
65°	282.6	285.2	285.2	286.4	283.8	285.2	280.0	276.2	271.1	258.3	241.7
67.5°	214.8	214.8	214.8	214.8	213.5	212.3	211.0	207.2	198.2	193.1	175.2
70°	164.9	157.3	157.3	157.3	157.3	158.6	154.7	149.6	147.0	138.1	125.3
72.5°	109.9	112.5	109.9	109.9	107.4	108.7	103.6	101.0	98.5	93.4	85.7
75°	79.3	72.9	75.4	76.7	72.9	75.4	70.3	65.2	65.2	61.4	57.5
77.5°	51.2	49.9	51.2	52.4	51.2	49.9	47.3	44.7	44.7	43.5	39.6
80°	37.1	35.8	35.8	35.8	34.5	35.8	33.3	33.3	30.7	29.4	26.8
82.5°	24.3	24.3	23.0	24.3	23.0	24.3	20.5	20.5	20.5	19.2	16.6
85°	16.6	14.1	14.1	15.4	12.8	15.4	14.1	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°	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7
2.5°	2605.9	2607.1	2607.1	2612.3	2614.8	2616.1	2616.1	2626.4	2622.5	2625.1	2627.6
5°	2568.8	2576.5	2579.0	2579.0	2593.1	2598.2	2603.3	2614.8	2616.1	2623.8	2632.7
7.5°	2533.0	2541.9	2547.1	2558.6	2567.5	2576.5	2591.8	2599.5	2607.1	2617.4	2628.9
10°	2498.5	2508.7	2518.9	2527.9	2541.9	2553.5	2563.7	2581.6	2590.6	2604.6	2619.9
12.5°	2465.3	2479.3	2488.3	2503.6	2518.9	2529.1	2544.5	2561.1	2575.2	2589.3	2607.1
15°	2435.8	2452.5	2462.7	2479.3	2495.9	2510.0	2526.6	2547.1	2557.3	2573.9	2590.6
17.5°	2403.8	2421.8	2434.6	2449.9	2470.4	2485.7	2499.8	2520.2	2533.0	2550.9	2570.1
20°	2370.6	2388.5	2403.8	2419.2	2439.7	2455.0	2471.6	2492.1	2506.1	2524.0	2539.4
22.5°	2331.0	2347.6	2364.2	2382.1	2402.6	2415.4	2434.6	2452.5	2467.8	2484.4	2499.8
25°	2279.8	2300.3	2313.1	2329.7	2346.3	2360.4	2380.8	2398.7	2411.5	2426.9	2440.9
27.5°	2219.7	2235.1	2245.3	2259.4	2276.0	2288.8	2304.1	2322.0	2334.8	2348.9	2359.1
30°	2117.4	2131.5	2140.5	2150.7	2167.3	2178.8	2191.6	2208.2	2217.2	2227.4	2236.4
32.5°	1983.2	1994.7	1999.8	2007.5	2019.0	2030.5	2040.7	2054.8	2058.6	2065.0	2065.0
35°	1788.8	1791.4	1790.1	1792.7	1797.8	1804.2	1813.1	1822.1	1827.2	1827.2	1823.4
37.5°	1561.2	1545.9	1529.3	1516.5	1512.6	1510.1	1515.2	1519.0	1524.2	1526.7	1520.3
40°	1324.7	1290.2	1253.1	1219.8	1196.8	1186.6	1182.8	1185.3	1185.3	1194.2	1194.2
42.5°	1121.4	1067.7	1012.7	962.8	929.6	904.0	892.5	892.5	893.8	900.2	904.0
45°	952.6	884.8	820.9	765.9	719.9	686.6	671.3	667.5	666.2	668.7	677.7
47.5°	823.5	753.1	686.6	618.9	570.3	537.0	523.0	517.8	512.7	517.8	519.1
50°	722.5	649.6	579.2	511.5	460.3	430.9	413.0	405.3	404.0	404.0	406.6
52.5°	630.4	562.6	492.3	423.3	369.5	341.4	324.8	320.9	315.8	320.9	320.9
55°	543.4	475.7	406.6	341.4	296.6	267.3	251.9	246.8	244.2	248.0	248.0
57.5°	448.8	391.3	327.4	268.5	223.8	203.3	191.8	185.4	184.1	186.7	184.1
60°	368.3	319.7	264.7	211.0	176.5	154.7	145.8	143.2	140.6	143.2	143.2
62.5°	291.5	250.6	205.8	164.9	135.5	120.2	109.9	109.9	108.7	108.7	109.9
65°	216.1	184.1	152.2	117.6	94.6	83.1	75.4	75.4	74.2	75.4	74.2
67.5°	157.3	135.5	109.9	85.7	67.8	61.4	56.3	52.4	55.0	52.4	51.2
70°	115.1	97.2	79.3	65.2	52.4	46.1	42.2	40.9	38.4	38.4	38.4
72.5°	76.7	65.2	53.7	42.2	34.5	28.1	26.8	24.3	21.7	23.0	25.6
75°	51.2	43.5	38.4	30.7	23.0	23.0	15.4	15.4	12.8	15.4	11.5
77.5°	35.8	29.4	23.0	19.2	15.4	14.1	10.2	10.2	8.9	8.9	8.9
80°	25.6	21.7	16.6	14.1	10.2	10.2	8.9	7.7	6.4	6.4	7.7
82.5°	15.4	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°	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7
2.5°	2634.0	2632.7	2635.3	2635.3	2643.0	2641.7	2645.5	2645.5	2643.0	2644.2	2649.4
5°	2643.0	2646.8	2654.5	2660.9	2672.4	2677.5	2683.9	2690.3	2691.6	2695.4	2699.2
7.5°	2643.0	2655.8	2664.7	2676.2	2691.6	2700.5	2714.6	2726.1	2731.2	2737.6	2745.2
10°	2637.8	2650.6	2667.2	2680.0	2699.2	2713.3	2727.4	2745.2	2752.9	2763.1	2773.4
12.5°	2627.6	2641.7	2659.6	2676.2	2697.9	2710.7	2728.6	2745.2	2756.8	2770.8	2782.4
15°	2612.3	2628.9	2645.5	2662.1	2685.1	2700.5	2717.1	2736.3	2747.8	2763.1	2773.4
17.5°	2588.0	2605.9	2621.2	2636.6	2658.3	2676.2	2691.6	2709.5	2721.0	2733.8	2747.8
20°	2558.6	2575.2	2591.8	2604.6	2626.4	2641.7	2658.3	2674.9	2683.9	2686.5	2708.2
22.5°	2521.5	2533.0	2545.8	2566.3	2579.0	2593.1	2608.5	2623.8	2632.7	2646.8	2654.5
25°	2460.1	2471.6	2485.7	2494.6	2510.0	2521.5	2536.8	2553.5	2558.6	2568.8	2576.5
27.5°	2374.5	2380.8	2387.3	2394.9	2403.8	2410.3	2419.2	2426.9	2432.0	2437.1	2442.2
30°	2238.9	2238.9	2238.9	2233.8	2237.6	2241.5	2242.7	2241.5	2241.5	2240.2	2240.2
32.5°	2059.9	2049.7	2038.2	2027.9	2024.1	2019.0	2016.4	2012.6	2006.2	2002.4	2003.6
35°	1818.2	1795.2	1781.2	1768.4	1758.2	1750.5	1746.6	1742.8	1741.5	1736.4	1731.3
37.5°	1516.5	1499.9	1489.6	1482.0	1473.0	1465.3	1466.6	1467.9	1471.7	1469.2	1470.4
40°	1196.8	1193.0	1196.8	1187.9	1185.3	1187.9	1194.2	1203.2	1208.3	1213.4	1222.4
42.5°	910.4	916.8	925.8	925.8	929.6	934.7	942.3	956.4	964.1	973.0	983.3
45°	685.4	693.0	704.6	708.4	710.9	717.3	726.3	737.8	742.9	750.6	759.5
47.5°	528.1	533.2	539.6	546.0	552.4	554.9	563.9	563.9	570.3	575.4	577.9
50°	411.7	416.8	421.9	425.8	428.4	432.2	434.7	438.6	439.8	442.4	443.7
52.5°	322.2	328.6	328.6	331.1	335.0	338.8	337.6	338.8	340.1	340.1	343.9
55°	251.9	251.9	255.7	255.7	258.3	257.0	258.3	258.3	258.3	258.3	259.6
57.5°	187.9	189.3	193.1	190.5	189.3	191.8	189.3	191.8	190.5	193.1	189.3
60°	144.5	144.5	145.8	145.8	147.0	147.0	147.0	145.8	145.8	144.5	144.5
62.5°	108.7	109.9	111.3	109.9	109.9	109.9	108.7	108.7	107.4	106.1	106.1
65°	72.9	71.6	74.2	71.6	72.9	72.9	71.6	72.9	69.1	70.3	69.1
67.5°	52.4	51.2	49.9	51.2	49.9	48.6	48.6	49.9	51.2	47.3	47.3
70°	34.5	35.8	34.5	35.8	37.1	37.1	35.8	34.5	35.8	33.3	34.5
72.5°	21.7	21.7	21.7	21.7	21.7	23.0	23.0	23.0	20.5	20.5	19.2
75°	10.2	14.1	11.5	10.2	14.1	14.1	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: P245986

CATALOG NUMBER: LD8B40D010 ER8B40850 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7
2.5°	2648.1	2646.8	2648.1	2649.4	2648.1	2646.8	2648.1	2649.4	2644.2	2643.0	2645.5
5°	2704.4	2704.4	2706.9	2708.2	2706.9	2704.4	2704.4	2699.2	2695.4	2691.6	2690.3
7.5°	2752.9	2755.5	2758.0	2759.3	2758.0	2755.5	2752.9	2745.2	2737.6	2731.2	2726.1
10°	2782.4	2786.2	2791.3	2793.8	2791.3	2786.2	2782.4	2773.4	2763.1	2752.9	2745.2
12.5°	2795.1	2799.0	2805.4	2804.1	2805.4	2799.0	2795.1	2782.4	2770.8	2756.8	2745.2
15°	2786.2	2791.3	2797.7	2800.2	2797.7	2791.3	2786.2	2773.4	2763.1	2747.8	2736.3
17.5°	2758.0	2765.7	2769.6	2773.4	2769.6	2765.7	2758.0	2747.8	2733.8	2721.0	2709.5
20°	2719.7	2724.8	2729.9	2731.2	2729.9	2724.8	2719.7	2708.2	2686.5	2683.9	2674.9
22.5°	2664.7	2668.6	2680.0	2676.2	2680.0	2668.6	2664.7	2654.5	2646.8	2632.7	2623.8
25°	2585.4	2589.3	2590.6	2591.8	2590.6	2589.3	2585.4	2576.5	2568.8	2558.6	2553.5
27.5°	2448.6	2448.6	2451.1	2452.5	2451.1	2448.6	2448.6	2442.2	2437.1	2432.0	2426.9
30°	2241.5	2241.5	2241.5	2247.9	2241.5	2241.5	2241.5	2240.2	2240.2	2241.5	2241.5
32.5°	2002.4	1999.8	1997.3	1999.8	1997.3	1999.8	2002.4	2003.6	2002.4	2006.2	2012.6
35°	1731.3	1730.0	1733.9	1728.7	1733.9	1730.0	1731.3	1731.3	1736.4	1741.5	1742.8
37.5°	1471.7	1469.2	1474.3	1469.2	1474.3	1469.2	1471.7	1470.4	1469.2	1471.7	1467.9
40°	1225.0	1227.5	1227.5	1237.8	1227.5	1227.5	1225.0	1222.4	1213.4	1208.3	1203.2
42.5°	988.4	996.1	993.5	1001.2	993.5	996.1	988.4	983.3	973.0	964.1	956.4
45°	764.6	769.8	769.8	772.3	769.8	769.8	764.6	759.5	750.6	742.9	737.8
47.5°	586.9	586.9	586.9	588.2	586.9	586.9	586.9	577.9	575.4	570.3	563.9
50°	446.3	447.5	448.8	450.1	448.8	447.5	446.3	443.7	442.4	439.8	438.6
52.5°	342.7	343.9	341.4	343.9	341.4	343.9	342.7	343.9	340.1	340.1	338.8
55°	259.6	258.3	259.6	260.8	259.6	258.3	259.6	259.6	258.3	258.3	258.3
57.5°	190.5	187.9	187.9	187.9	187.9	187.9	190.5	189.3	193.1	190.5	191.8
60°	141.9	143.2	143.2	144.5	143.2	143.2	141.9	144.5	144.5	145.8	145.8
62.5°	104.8	108.7	106.1	108.7	106.1	108.7	104.8	106.1	106.1	107.4	108.7
65°	67.8	67.8	67.8	69.1	67.8	67.8	67.8	69.1	70.3	69.1	72.9
67.5°	46.1	47.3	49.9	48.6	49.9	47.3	46.1	47.3	47.3	51.2	49.9
70°	37.1	33.3	33.3	37.1	33.3	33.3	37.1	34.5	33.3	35.8	34.5
72.5°	21.7	19.2	21.7	21.7	21.7	19.2	21.7	19.2	20.5	20.5	23.0
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: P245986

CATALOG NUMBER: LD8B40D010 ER8B40850 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7
2.5°	2645.5	2641.7	2643.0	2635.3	2635.3	2632.7	2634.0	2627.6	2625.1	2622.5	2626.4
5°	2683.9	2677.5	2672.4	2660.9	2654.5	2646.8	2643.0	2632.7	2623.8	2616.1	2614.8
7.5°	2714.6	2700.5	2691.6	2676.2	2664.7	2655.8	2643.0	2628.9	2617.4	2607.1	2599.5
10°	2727.4	2713.3	2699.2	2680.0	2667.2	2650.6	2637.8	2619.9	2604.6	2590.6	2581.6
12.5°	2728.6	2710.7	2697.9	2676.2	2659.6	2641.7	2627.6	2607.1	2589.3	2575.2	2561.1
15°	2717.1	2700.5	2685.1	2662.1	2645.5	2628.9	2612.3	2590.6	2573.9	2557.3	2547.1
17.5°	2691.6	2676.2	2658.3	2636.6	2621.2	2605.9	2588.0	2570.1	2550.9	2533.0	2520.2
20°	2658.3	2641.7	2626.4	2604.6	2591.8	2575.2	2558.6	2539.4	2524.0	2506.1	2492.1
22.5°	2608.5	2593.1	2579.0	2566.3	2545.8	2533.0	2521.5	2499.8	2484.4	2467.8	2452.5
25°	2536.8	2521.5	2510.0	2494.6	2485.7	2471.6	2460.1	2440.9	2426.9	2411.5	2398.7
27.5°	2419.2	2410.3	2403.8	2394.9	2387.3	2380.8	2374.5	2359.1	2348.9	2334.8	2322.0
30°	2242.7	2241.5	2237.6	2233.8	2238.9	2238.9	2238.9	2236.4	2227.4	2217.2	2208.2
32.5°	2016.4	2019.0	2024.1	2027.9	2038.2	2049.7	2059.9	2065.0	2065.0	2058.6	2054.8
35°	1746.6	1750.5	1758.2	1768.4	1781.2	1795.2	1818.2	1823.4	1827.2	1827.2	1822.1
37.5°	1466.6	1465.3	1473.0	1482.0	1489.6	1499.9	1516.5	1520.3	1526.7	1524.2	1519.0
40°	1194.2	1187.9	1185.3	1187.9	1196.8	1193.0	1196.8	1194.2	1194.2	1185.3	1185.3
42.5°	942.3	934.7	929.6	925.8	925.8	916.8	910.4	904.0	900.2	893.8	892.5
45°	726.3	717.3	710.9	708.4	704.6	693.0	685.4	677.7	668.7	666.2	667.5
47.5°	563.9	554.9	552.4	546.0	539.6	533.2	528.1	519.1	517.8	512.7	517.8
50°	434.7	432.2	428.4	425.8	421.9	416.8	411.7	406.6	404.0	404.0	405.3
52.5°	337.6	338.8	335.0	331.1	328.6	328.6	322.2	320.9	320.9	315.8	320.9
55°	258.3	257.0	258.3	255.7	255.7	251.9	251.9	248.0	248.0	244.2	246.8
57.5°	189.3	191.8	189.3	190.5	193.1	189.3	187.9	184.1	186.7	184.1	185.4
60°	147.0	147.0	147.0	145.8	145.8	144.5	144.5	143.2	143.2	140.6	143.2
62.5°	108.7	109.9	109.9	109.9	111.3	109.9	108.7	109.9	108.7	108.7	109.9
65°	71.6	72.9	72.9	71.6	74.2	71.6	72.9	74.2	75.4	74.2	75.4
67.5°	48.6	48.6	49.9	51.2	49.9	51.2	52.4	51.2	52.4	55.0	52.4
70°	35.8	37.1	37.1	35.8	34.5	35.8	34.5	38.4	38.4	38.4	40.9
72.5°	23.0	23.0	21.7	21.7	21.7	21.7	21.7	25.6	23.0	21.7	24.3
75°	12.8	14.1	14.1	10.2	11.5	14.1	10.2	11.5	15.4	12.8	15.4
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: P245986

CATALOG NUMBER: LD8B40D010 ER8B40850 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7
2.5°	2616.1	2616.1	2614.8	2612.3	2607.1	2607.1	2605.9	2602.0	2599.5	2598.2	2598.2
5°	2603.3	2598.2	2593.1	2579.0	2579.0	2576.5	2568.8	2563.7	2561.1	2554.7	2552.2
7.5°	2591.8	2576.5	2567.5	2558.6	2547.1	2541.9	2533.0	2529.1	2520.2	2513.8	2510.0
10°	2563.7	2553.5	2541.9	2527.9	2518.9	2508.7	2498.5	2490.8	2479.3	2472.9	2467.8
12.5°	2544.5	2529.1	2518.9	2503.6	2488.3	2479.3	2465.3	2456.3	2444.8	2432.0	2424.3
15°	2526.6	2510.0	2495.9	2479.3	2462.7	2452.5	2435.8	2425.6	2409.0	2396.2	2387.3
17.5°	2499.8	2485.7	2470.4	2449.9	2434.6	2421.8	2403.8	2391.1	2375.7	2359.1	2350.2
20°	2471.6	2455.0	2439.7	2419.2	2403.8	2388.5	2370.6	2356.6	2338.6	2323.3	2313.1
22.5°	2434.6	2415.4	2402.6	2382.1	2364.2	2347.6	2331.0	2314.4	2297.7	2284.9	2273.4
25°	2380.8	2360.4	2346.3	2329.7	2313.1	2300.3	2279.8	2269.6	2253.0	2241.5	2229.9
27.5°	2304.1	2288.8	2276.0	2259.4	2245.3	2235.1	2219.7	2209.5	2195.4	2185.2	2176.3
30°	2191.6	2178.8	2167.3	2150.7	2140.5	2131.5	2117.4	2108.5	2098.3	2086.7	2084.2
32.5°	2040.7	2030.5	2019.0	2007.5	1999.8	1994.7	1983.2	1978.1	1967.8	1961.4	1955.1
35°	1813.1	1804.2	1797.8	1792.7	1790.1	1791.4	1788.8	1794.0	1796.5	1795.2	1796.5
37.5°	1515.2	1510.1	1512.6	1516.5	1529.3	1545.9	1561.2	1584.2	1599.6	1615.0	1629.0
40°	1182.8	1186.6	1196.8	1219.8	1253.1	1290.2	1324.7	1368.2	1411.6	1442.3	1470.4
42.5°	892.5	904.0	929.6	962.8	1012.7	1067.7	1121.4	1185.3	1237.8	1288.9	1324.7
45°	671.3	686.6	719.9	765.9	820.9	884.8	952.6	1024.2	1086.9	1139.3	1178.9
47.5°	523.0	537.0	570.3	618.9	686.6	753.1	823.5	897.6	962.8	1014.0	1048.5
50°	413.0	430.9	460.3	511.5	579.2	649.6	722.5	795.3	856.7	900.2	930.9
52.5°	324.8	341.4	369.5	423.3	492.3	562.6	630.4	702.0	755.7	797.9	818.3
55°	251.9	267.3	296.6	341.4	406.6	475.7	543.4	604.8	654.7	685.4	704.6
57.5°	191.8	203.3	223.8	268.5	327.4	391.3	448.8	510.2	548.6	570.3	583.0
60°	145.8	154.7	176.5	211.0	264.7	319.7	368.3	414.3	445.0	462.9	475.7
62.5°	109.9	120.2	135.5	164.9	205.8	250.6	291.5	326.0	351.6	363.1	372.1
65°	75.4	83.1	94.6	117.6	152.2	184.1	216.1	241.7	258.3	271.1	276.2
67.5°	56.3	61.4	67.8	85.7	109.9	135.5	157.3	175.2	193.1	198.2	207.2
70°	42.2	46.1	52.4	65.2	79.3	97.2	115.1	125.3	138.1	147.0	149.6
72.5°	26.8	28.1	34.5	42.2	53.7	65.2	76.7	85.7	93.4	98.5	101.0
75°	15.4	23.0	23.0	30.7	38.4	43.5	51.2	57.5	61.4	65.2	65.2
77.5°	10.2	14.1	15.4	19.2	23.0	29.4	35.8	39.6	43.5	44.7	44.7
80°	8.9	10.2	10.2	14.1	16.6	21.7	25.6	26.8	29.4	30.7	33.3
82.5°	3.8	5.1	6.4	10.2	11.5	11.5	15.4	16.6	19.2	20.5	20.5
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: P245986

CATALOG NUMBER: LD8B40D010 ER8B40850 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7
2.5°	2595.7	2596.9	2591.8	2590.6	2588.0	2589.3	2591.8
5°	2548.4	2549.6	2544.5	2539.4	2539.4	2538.1	2539.4
7.5°	2503.6	2504.9	2497.2	2494.6	2489.5	2490.8	2490.8
10°	2458.8	2458.8	2447.4	2446.0	2442.2	2440.9	2440.9
12.5°	2415.4	2411.5	2402.6	2397.5	2400.0	2392.4	2392.4
15°	2377.0	2370.6	2359.1	2355.3	2348.9	2346.3	2346.3
17.5°	2337.4	2332.3	2322.0	2314.4	2306.7	2305.4	2306.7
20°	2299.0	2293.9	2281.1	2276.0	2269.6	2269.6	2267.0
22.5°	2260.6	2255.5	2244.0	2240.2	2231.3	2231.3	2232.5
25°	2221.0	2217.2	2204.4	2201.8	2200.6	2195.4	2198.0
27.5°	2167.3	2164.7	2154.5	2150.7	2145.6	2144.3	2146.8
30°	2068.8	2065.0	2057.4	2053.5	2044.6	2045.8	2048.4
32.5°	1946.1	1941.0	1930.7	1926.9	1919.3	1916.7	1918.0
35°	1792.7	1788.8	1779.9	1779.9	1772.2	1769.6	1772.2
37.5°	1636.7	1640.5	1636.7	1640.5	1636.7	1635.4	1636.7
40°	1489.6	1503.7	1506.2	1520.3	1515.2	1522.9	1521.6
42.5°	1349.0	1372.0	1381.0	1392.4	1389.9	1395.0	1398.9
45°	1207.0	1226.2	1235.2	1242.9	1244.1	1246.7	1248.0
47.5°	1072.8	1088.1	1089.4	1098.3	1097.1	1097.1	1100.9
50°	947.5	957.7	960.2	966.7	961.6	959.0	960.2
52.5°	831.1	841.3	838.8	841.3	835.0	832.4	833.7
55°	712.2	717.3	717.3	717.3	709.7	709.7	709.7
57.5°	590.7	592.0	589.5	590.7	589.5	581.8	580.5
60°	479.5	479.5	478.2	479.5	475.7	471.8	471.8
62.5°	374.6	377.2	382.3	377.2	374.6	377.2	373.4
65°	280.0	285.2	283.8	286.4	285.2	285.2	282.6
67.5°	211.0	212.3	213.5	214.8	214.8	214.8	214.8
70°	154.7	158.6	157.3	157.3	157.3	157.3	164.9
72.5°	103.6	108.7	107.4	109.9	109.9	112.5	109.9
75°	70.3	75.4	72.9	76.7	75.4	72.9	79.3
77.5°	47.3	49.9	51.2	52.4	51.2	49.9	51.2
80°	33.3	35.8	34.5	35.8	35.8	35.8	37.1
82.5°	20.5	24.3	23.0	24.3	23.0	24.3	24.3
85°	14.1	15.4	12.8	15.4	14.1	14.1	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)