

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: P248893

Luminaire Tested: **LD8B60D010 ER8B60840 8LBSW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248893  
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: LD8B60D010 ER8B60840 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: 4734.0 lumens  
Efficiency: N/A  
Efficacy: 79.6 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

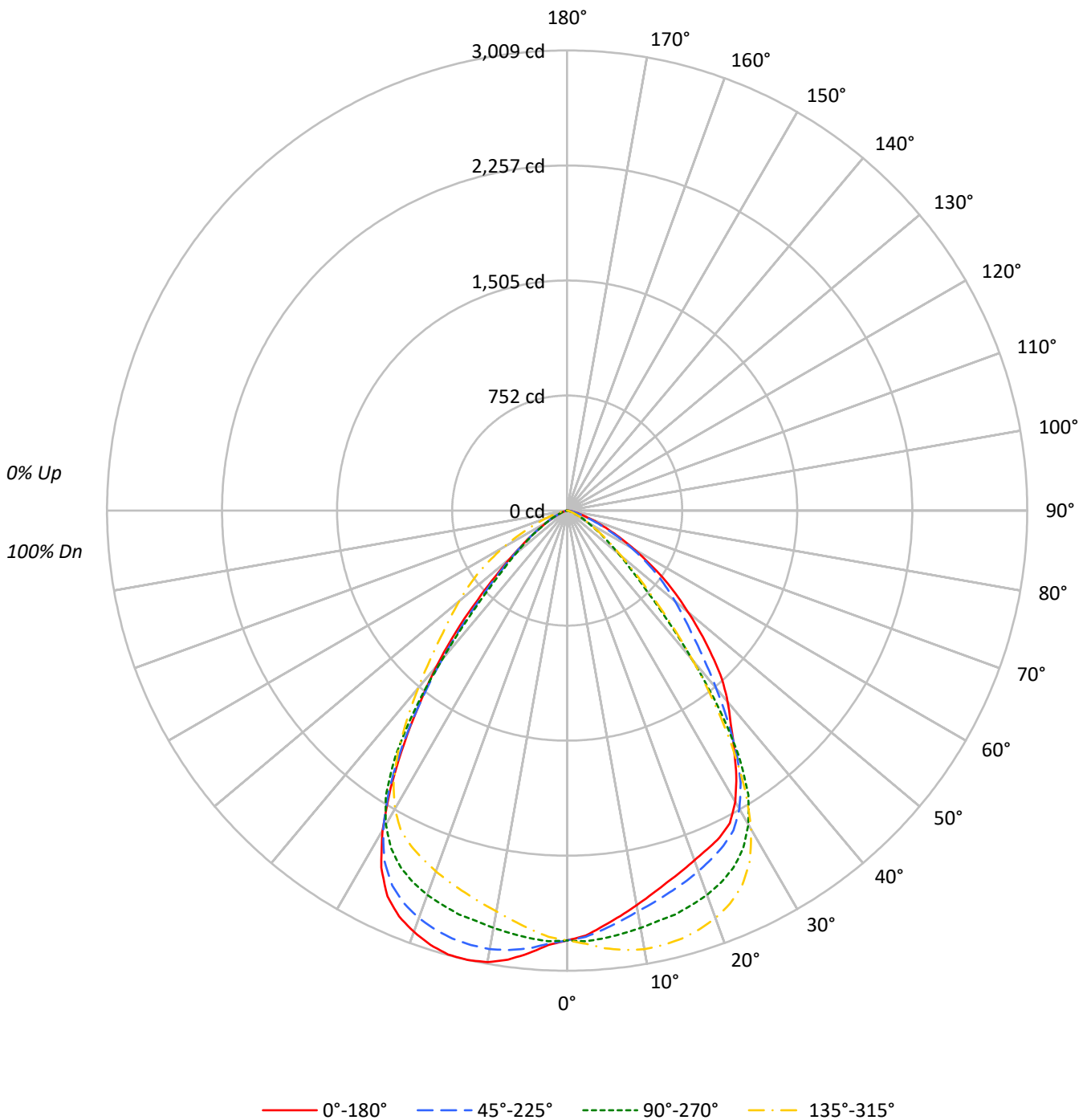
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	86662	86662	86662	86662
5°	84362	86867	89968	86867
10°	82028	86753	93886	86753
15°	80388	87268	95942	87268
20°	79843	87768	96188	87768
25°	80259	87592	94641	87592
30°	78278	84384	85901	84384
35°	71599	73613	69841	73613
40°	65735	51207	53473	51207
45°	58410	31237	36143	31237
50°	49441	20868	23176	20868
55°	40945	14241	15048	14241
60°	31231	9479	9559	9479
65°	22130	5903	5407	5903
70°	15958	3958	3588	3958
75°	10139	1966	1632	1966
80°	7068	1456	1208	1456
85°	6298	0	495	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.5	5.7
10°-20°	774.6	16.4
20°-30°	1173.0	24.8
30°-40°	1175.6	24.8
40°-50°	738.2	15.6
50°-60°	393.4	8.3
60°-70°	161.8	3.4
70°-80°	42.7	0.9
80°-90°	7.2	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°	2215.1	46.8
0°-40°	3390.7	71.6
0°-60°	4522.3	95.5
0°-90°	4734.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4734.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2810	2810	2810	2810	2810	
5°	2725	2806	2906	2806	2725	257
15°	2518	2734	3005	2734	2518	712
25°	2359	2574	2782	2574	2359	1082
35°	1902	1956	1855	1956	1902	1192
45°	1339	716	829	716	1339	1030
55°	762	265	280	265	762	679
65°	303	81	74	81	303	315
75°	85	16	14	16	85	96
85°	18	0	1	0	18	20
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°	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4
2.5°	2781.6	2778.9	2777.5	2780.3	2781.6	2787.1	2785.7	2788.5	2788.5	2789.9	2792.6
5°	2725.4	2723.9	2725.4	2725.4	2730.8	2736.3	2735.0	2739.1	2741.8	2748.7	2751.4
7.5°	2673.2	2673.2	2671.8	2677.3	2680.1	2688.3	2686.9	2693.8	2697.9	2704.7	2714.3
10°	2619.7	2619.7	2621.0	2625.2	2626.6	2638.9	2638.9	2648.5	2654.0	2660.9	2673.2
12.5°	2567.5	2567.5	2575.8	2573.0	2578.5	2588.1	2592.2	2601.8	2610.1	2623.8	2636.2
15°	2518.1	2518.1	2520.9	2527.7	2531.8	2544.2	2551.1	2562.1	2571.7	2585.4	2603.2
17.5°	2475.6	2474.2	2475.6	2483.8	2492.1	2503.0	2508.5	2522.2	2531.8	2549.7	2566.2
20°	2433.1	2435.8	2435.8	2442.7	2448.1	2461.9	2467.3	2482.5	2493.4	2509.9	2529.1
22.5°	2396.0	2394.6	2394.6	2404.2	2408.4	2420.7	2426.2	2439.9	2452.3	2466.0	2483.8
25°	2358.9	2356.2	2361.7	2363.1	2365.8	2379.5	2383.6	2393.2	2405.6	2418.0	2435.8
27.5°	2304.0	2301.3	2302.7	2308.2	2312.3	2323.3	2326.0	2335.6	2345.2	2356.2	2371.3
30°	2198.4	2195.7	2194.3	2203.9	2208.0	2216.2	2220.3	2236.8	2239.5	2251.9	2262.9
32.5°	2058.4	2057.0	2059.8	2068.0	2072.1	2083.1	2088.6	2098.2	2105.1	2111.9	2122.9
35°	1902.0	1899.2	1902.0	1910.2	1910.2	1919.8	1924.0	1928.0	1926.7	1928.0	1925.3
37.5°	1756.5	1755.1	1756.5	1760.6	1756.5	1760.6	1756.5	1748.3	1733.2	1716.7	1700.2
40°	1633.0	1634.4	1626.2	1631.7	1616.5	1613.8	1598.7	1578.1	1547.9	1515.0	1468.4
42.5°	1501.3	1497.2	1491.7	1494.4	1482.1	1472.4	1447.7	1421.7	1383.2	1328.4	1272.1
45°	1339.4	1338.0	1335.2	1333.9	1325.6	1316.0	1295.4	1265.2	1222.7	1166.5	1099.2
47.5°	1181.5	1177.4	1177.4	1178.8	1169.2	1167.8	1151.3	1125.3	1088.2	1033.3	963.3
50°	1030.6	1029.2	1032.0	1037.4	1030.6	1027.8	1016.9	999.0	966.1	919.4	853.5
52.5°	894.7	893.4	896.1	903.0	900.2	903.0	892.0	878.3	856.3	811.0	753.4
55°	761.6	761.6	761.6	769.8	769.8	769.8	764.3	756.2	735.5	702.6	649.1
57.5°	623.0	624.4	632.6	634.0	632.6	635.4	634.0	625.7	612.1	588.7	547.6
60°	506.4	506.4	510.5	514.6	513.2	514.6	514.6	510.5	496.8	477.6	444.6
62.5°	400.7	404.8	402.1	404.8	410.3	404.8	402.1	399.3	389.7	377.4	349.9
65°	303.3	306.0	306.0	307.4	304.6	306.0	300.6	296.4	290.9	277.2	259.4
67.5°	230.6	230.6	230.6	230.6	229.2	227.8	226.4	222.3	212.7	207.2	188.0
70°	177.0	168.8	168.8	168.8	168.8	170.2	166.1	160.6	157.8	148.2	134.5
72.5°	118.0	120.8	118.0	118.0	115.3	116.6	111.2	108.4	105.7	100.2	92.0
75°	85.1	78.2	80.9	82.4	78.2	80.9	75.5	70.0	70.0	65.9	61.7
77.5°	54.9	53.5	54.9	56.3	54.9	53.5	50.8	48.0	48.0	46.7	42.5
80°	39.8	38.4	38.4	38.4	37.1	38.4	35.7	35.7	32.9	31.6	28.8
82.5°	26.1	26.1	24.7	26.1	24.7	26.1	22.0	22.0	22.0	20.6	17.8
85°	17.8	15.1	15.1	16.5	13.7	16.5	15.1	13.7	12.4	12.4	11.0
87.5°	8.2	9.6	8.2	9.6	8.2	8.2	9.6	8.2	8.2	5.5	5.5
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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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4
2.5°	2796.7	2798.1	2798.1	2803.6	2806.3	2807.7	2807.7	2818.7	2814.5	2817.3	2820.0
5°	2756.9	2765.1	2767.9	2767.9	2783.0	2788.5	2793.9	2806.3	2807.7	2815.9	2825.5
7.5°	2718.5	2728.1	2733.6	2745.9	2755.5	2765.1	2781.6	2789.9	2798.1	2809.1	2821.4
10°	2681.4	2692.4	2703.4	2713.0	2728.1	2740.4	2751.4	2770.6	2780.3	2795.3	2811.8
12.5°	2645.8	2660.9	2670.5	2686.9	2703.4	2714.3	2730.8	2748.7	2763.8	2778.9	2798.1
15°	2614.2	2632.0	2643.0	2660.9	2678.7	2693.8	2711.6	2733.6	2744.6	2762.4	2780.3
17.5°	2579.9	2599.1	2612.8	2629.3	2651.3	2667.7	2682.8	2704.7	2718.5	2737.7	2758.3
20°	2544.2	2563.4	2579.9	2596.4	2618.3	2634.8	2652.6	2674.6	2689.7	2708.9	2725.4
22.5°	2501.7	2519.5	2537.3	2556.5	2578.5	2592.2	2612.8	2632.0	2648.5	2666.3	2682.8
25°	2446.8	2468.8	2482.5	2500.3	2518.1	2533.2	2555.2	2574.4	2588.1	2604.6	2619.7
27.5°	2382.3	2398.8	2409.7	2424.8	2442.7	2456.4	2472.8	2492.1	2505.8	2520.9	2531.8
30°	2272.5	2287.6	2297.2	2308.2	2326.0	2338.4	2352.1	2369.9	2379.5	2390.5	2400.1
32.5°	2128.4	2140.7	2146.2	2154.5	2166.8	2179.2	2190.2	2205.3	2209.4	2216.2	2216.2
35°	1919.8	1922.6	1921.2	1924.0	1929.4	1936.3	1945.9	1955.5	1961.0	1961.0	1956.9
37.5°	1675.5	1659.1	1641.3	1627.5	1623.4	1620.6	1626.2	1630.2	1635.8	1638.5	1631.7
40°	1421.7	1384.7	1344.8	1309.1	1284.4	1273.5	1269.4	1272.1	1272.1	1281.7	1281.7
42.5°	1203.5	1145.8	1086.9	1033.3	997.6	970.2	957.9	957.9	959.2	966.1	970.2
45°	1022.4	949.6	881.0	822.0	772.6	736.9	720.5	716.3	715.0	717.7	727.3
47.5°	883.8	808.3	736.9	664.2	612.1	576.4	561.3	555.7	550.3	555.7	557.2
50°	775.4	697.1	621.7	548.9	494.0	462.4	443.2	435.0	433.6	433.6	436.4
52.5°	676.5	603.8	528.4	454.2	396.6	366.4	348.6	344.4	339.0	344.4	344.4
55°	583.2	510.5	436.4	366.4	318.3	286.8	270.3	264.9	262.1	266.2	266.2
57.5°	481.7	419.9	351.3	288.2	240.2	218.2	205.8	199.0	197.6	200.3	197.6
60°	395.2	343.1	284.1	226.4	189.4	166.1	156.5	153.7	150.9	153.7	153.7
62.5°	312.9	269.0	220.9	177.0	145.4	129.0	118.0	118.0	116.6	116.6	118.0
65°	231.9	197.6	163.3	126.2	101.6	89.2	80.9	80.9	79.6	80.9	79.6
67.5°	168.8	145.4	118.0	92.0	72.8	65.9	60.4	56.3	59.0	56.3	54.9
70°	123.5	104.3	85.1	70.0	56.3	49.4	45.3	43.9	41.2	41.2	41.2
72.5°	82.4	70.0	57.6	45.3	37.1	30.2	28.8	26.1	23.3	24.7	27.5
75°	54.9	46.7	41.2	32.9	24.7	24.7	16.5	16.5	13.7	16.5	12.4
77.5°	38.4	31.6	24.7	20.6	16.5	15.1	11.0	11.0	9.6	9.6	9.6
80°	27.5	23.3	17.8	15.1	11.0	11.0	9.6	8.2	6.8	6.8	8.2
82.5°	16.5	12.4	12.4	11.0	6.8	5.5	4.1	5.5	2.8	2.8	2.8
85°	9.6	8.2	6.8	4.1	2.8	2.8	1.4	0.0	1.4	1.4	0.0
87.5°	5.5	2.8	2.8	1.4	0.0	1.4	1.4	0.0	0.0	0.0	2.8
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°	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4
2.5°	2826.9	2825.5	2828.3	2828.3	2836.5	2835.1	2839.2	2839.2	2836.5	2837.9	2843.4
5°	2836.5	2840.6	2848.8	2855.7	2868.0	2873.6	2880.4	2887.3	2888.7	2892.8	2896.9
7.5°	2836.5	2850.2	2859.8	2872.2	2888.7	2898.3	2913.3	2925.7	2931.2	2938.0	2946.3
10°	2831.0	2844.7	2862.6	2876.3	2896.9	2912.0	2927.1	2946.3	2954.5	2965.5	2976.5
12.5°	2820.0	2835.1	2854.3	2872.2	2895.5	2909.2	2928.4	2946.3	2958.6	2973.7	2986.1
15°	2803.6	2821.4	2839.2	2857.1	2881.8	2898.3	2916.1	2936.7	2949.0	2965.5	2976.5
17.5°	2777.5	2796.7	2813.2	2829.6	2853.0	2872.2	2888.7	2907.9	2920.2	2934.0	2949.0
20°	2745.9	2763.8	2781.6	2795.3	2818.7	2835.1	2853.0	2870.8	2880.4	2883.2	2906.5
22.5°	2706.2	2718.5	2732.2	2754.2	2767.9	2783.0	2799.5	2815.9	2825.5	2840.6	2848.8
25°	2640.2	2652.6	2667.7	2677.3	2693.8	2706.2	2722.6	2740.4	2745.9	2756.9	2765.1
27.5°	2548.3	2555.2	2562.1	2570.3	2579.9	2586.7	2596.4	2604.6	2610.1	2615.6	2621.0
30°	2402.8	2402.8	2402.8	2397.4	2401.5	2405.6	2407.0	2405.6	2405.6	2404.2	2404.2
32.5°	2210.7	2199.8	2187.4	2176.4	2172.3	2166.8	2164.1	2160.0	2153.1	2149.0	2150.4
35°	1951.4	1926.7	1911.6	1897.9	1886.9	1878.7	1874.5	1870.4	1869.1	1863.6	1858.0
37.5°	1627.5	1609.7	1598.7	1590.5	1580.9	1572.6	1574.0	1575.4	1579.5	1576.8	1578.1
40°	1284.4	1280.3	1284.4	1274.8	1272.1	1274.8	1281.7	1291.3	1296.8	1302.3	1311.9
42.5°	977.1	983.9	993.6	993.6	997.6	1003.2	1011.3	1026.5	1034.7	1044.3	1055.3
45°	735.5	743.8	756.2	760.2	763.0	769.8	779.5	791.8	797.3	805.5	815.1
47.5°	566.8	572.2	579.1	586.0	592.8	595.6	605.2	605.2	612.1	617.5	620.3
50°	441.9	447.4	452.8	457.0	459.7	463.8	466.6	470.7	472.0	474.8	476.2
52.5°	345.8	352.7	352.7	355.4	359.5	363.6	362.3	363.6	365.0	365.0	369.1
55°	270.3	270.3	274.5	274.5	277.2	275.8	277.2	277.2	277.2	277.2	278.6
57.5°	201.7	203.1	207.2	204.5	203.1	205.8	203.1	205.8	204.5	207.2	203.1
60°	155.0	155.0	156.5	156.5	157.8	157.8	157.8	156.5	156.5	155.0	155.0
62.5°	116.6	118.0	119.4	118.0	118.0	118.0	116.6	116.6	115.3	113.9	113.9
65°	78.2	76.9	79.6	76.9	78.2	78.2	76.9	78.2	74.1	75.5	74.1
67.5°	56.3	54.9	53.5	54.9	53.5	52.1	52.1	53.5	54.9	50.8	50.8
70°	37.1	38.4	37.1	38.4	39.8	39.8	38.4	37.1	38.4	35.7	37.1
72.5°	23.3	23.3	23.3	23.3	23.3	24.7	24.7	24.7	22.0	22.0	20.6
75°	11.0	15.1	12.4	11.0	15.1	15.1	13.7	13.7	12.4	12.4	12.4
77.5°	11.0	8.2	8.2	8.2	8.2	8.2	8.2	8.2	6.8	8.2	6.8
80°	5.5	5.5	5.5	4.1	5.5	5.5	6.8	5.5	5.5	4.1	6.8
82.5°	2.8	2.8	2.8	0.0	1.4	2.8	2.8	1.4	2.8	2.8	1.4
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: P248893

CATALOG NUMBER: LD8B60D010 ER8B60840 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4
2.5°	2842.0	2840.6	2842.0	2843.4	2842.0	2840.6	2842.0	2843.4	2837.9	2836.5	2839.2
5°	2902.4	2902.4	2905.1	2906.5	2905.1	2902.4	2902.4	2896.9	2892.8	2888.7	2887.3
7.5°	2954.5	2957.3	2960.0	2961.4	2960.0	2957.3	2954.5	2946.3	2938.0	2931.2	2925.7
10°	2986.1	2990.2	2995.7	2998.4	2995.7	2990.2	2986.1	2976.5	2965.5	2954.5	2946.3
12.5°	2999.8	3003.9	3010.8	3009.4	3010.8	3003.9	2999.8	2986.1	2973.7	2958.6	2946.3
15°	2990.2	2995.7	3002.5	3005.3	3002.5	2995.7	2990.2	2976.5	2965.5	2949.0	2936.7
17.5°	2960.0	2968.2	2972.4	2976.5	2972.4	2968.2	2960.0	2949.0	2934.0	2920.2	2907.9
20°	2918.8	2924.4	2929.8	2931.2	2929.8	2924.4	2918.8	2906.5	2883.2	2880.4	2870.8
22.5°	2859.8	2864.0	2876.3	2872.2	2876.3	2864.0	2859.8	2848.8	2840.6	2825.5	2815.9
25°	2774.7	2778.9	2780.3	2781.6	2780.3	2778.9	2774.7	2765.1	2756.9	2745.9	2740.4
27.5°	2627.9	2627.9	2630.6	2632.0	2630.6	2627.9	2627.9	2621.0	2615.6	2610.1	2604.6
30°	2405.6	2405.6	2405.6	2412.5	2405.6	2405.6	2405.6	2404.2	2404.2	2405.6	2405.6
32.5°	2149.0	2146.2	2143.5	2146.2	2143.5	2146.2	2149.0	2150.4	2149.0	2153.1	2160.0
35°	1858.0	1856.7	1860.8	1855.3	1860.8	1856.7	1858.0	1858.0	1863.6	1869.1	1870.4
37.5°	1579.5	1576.8	1582.2	1576.8	1582.2	1576.8	1579.5	1578.1	1576.8	1579.5	1575.4
40°	1314.7	1317.4	1317.4	1328.4	1317.4	1317.4	1314.7	1311.9	1302.3	1296.8	1291.3
42.5°	1060.8	1069.0	1066.3	1074.5	1066.3	1069.0	1060.8	1055.3	1044.3	1034.7	1026.5
45°	820.6	826.1	826.1	828.8	826.1	826.1	820.6	815.1	805.5	797.3	791.8
47.5°	629.9	629.9	629.9	631.3	629.9	629.9	629.9	620.3	617.5	612.1	605.2
50°	478.9	480.3	481.7	483.1	481.7	480.3	478.9	476.2	474.8	472.0	470.7
52.5°	367.8	369.1	366.4	369.1	366.4	369.1	367.8	369.1	365.0	365.0	363.6
55°	278.6	277.2	278.6	279.9	278.6	277.2	278.6	278.6	277.2	277.2	277.2
57.5°	204.5	201.7	201.7	201.7	201.7	201.7	204.5	203.1	207.2	204.5	205.8
60°	152.3	153.7	153.7	155.0	153.7	153.7	152.3	155.0	155.0	156.5	156.5
62.5°	112.5	116.6	113.9	116.6	113.9	116.6	112.5	113.9	113.9	115.3	116.6
65°	72.8	72.8	72.8	74.1	72.8	72.8	72.8	74.1	75.5	74.1	78.2
67.5°	49.4	50.8	53.5	52.1	53.5	50.8	49.4	50.8	50.8	54.9	53.5
70°	39.8	35.7	35.7	39.8	35.7	35.7	39.8	37.1	35.7	38.4	37.1
72.5°	23.3	20.6	23.3	23.3	23.3	20.6	23.3	20.6	22.0	22.0	24.7
75°	12.4	11.0	9.6	13.7	9.6	11.0	12.4	12.4	12.4	12.4	13.7
77.5°	8.2	6.8	9.6	9.6	9.6	6.8	8.2	6.8	8.2	6.8	8.2
80°	4.1	5.5	4.1	6.8	4.1	5.5	4.1	6.8	4.1	5.5	5.5
82.5°	1.4	2.8	2.8	2.8	2.8	2.8	1.4	1.4	2.8	2.8	1.4
85°	0.0	2.8	1.4	1.4	1.4	2.8	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	0.0	0.0	1.4	0.0	0.0	1.4	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: P248893

CATALOG NUMBER: LD8B60D010 ER8B60840 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4
2.5°	2839.2	2835.1	2836.5	2828.3	2828.3	2825.5	2826.9	2820.0	2817.3	2814.5	2818.7
5°	2880.4	2873.6	2868.0	2855.7	2848.8	2840.6	2836.5	2825.5	2815.9	2807.7	2806.3
7.5°	2913.3	2898.3	2888.7	2872.2	2859.8	2850.2	2836.5	2821.4	2809.1	2798.1	2789.9
10°	2927.1	2912.0	2896.9	2876.3	2862.6	2844.7	2831.0	2811.8	2795.3	2780.3	2770.6
12.5°	2928.4	2909.2	2895.5	2872.2	2854.3	2835.1	2820.0	2798.1	2778.9	2763.8	2748.7
15°	2916.1	2898.3	2881.8	2857.1	2839.2	2821.4	2803.6	2780.3	2762.4	2744.6	2733.6
17.5°	2888.7	2872.2	2853.0	2829.6	2813.2	2796.7	2777.5	2758.3	2737.7	2718.5	2704.7
20°	2853.0	2835.1	2818.7	2795.3	2781.6	2763.8	2745.9	2725.4	2708.9	2689.7	2674.6
22.5°	2799.5	2783.0	2767.9	2754.2	2732.2	2718.5	2706.2	2682.8	2666.3	2648.5	2632.0
25°	2722.6	2706.2	2693.8	2677.3	2667.7	2652.6	2640.2	2619.7	2604.6	2588.1	2574.4
27.5°	2596.4	2586.7	2579.9	2570.3	2562.1	2555.2	2548.3	2531.8	2520.9	2505.8	2492.1
30°	2407.0	2405.6	2401.5	2397.4	2402.8	2402.8	2402.8	2400.1	2390.5	2379.5	2369.9
32.5°	2164.1	2166.8	2172.3	2176.4	2187.4	2199.8	2210.7	2216.2	2216.2	2209.4	2205.3
35°	1874.5	1878.7	1886.9	1897.9	1911.6	1926.7	1951.4	1956.9	1961.0	1961.0	1955.5
37.5°	1574.0	1572.6	1580.9	1590.5	1598.7	1609.7	1627.5	1631.7	1638.5	1635.8	1630.2
40°	1281.7	1274.8	1272.1	1274.8	1284.4	1280.3	1284.4	1281.7	1281.7	1272.1	1272.1
42.5°	1011.3	1003.2	997.6	993.6	993.6	983.9	977.1	970.2	966.1	959.2	957.9
45°	779.5	769.8	763.0	760.2	756.2	743.8	735.5	727.3	717.7	715.0	716.3
47.5°	605.2	595.6	592.8	586.0	579.1	572.2	566.8	557.2	555.7	550.3	555.7
50°	466.6	463.8	459.7	457.0	452.8	447.4	441.9	436.4	433.6	433.6	435.0
52.5°	362.3	363.6	359.5	355.4	352.7	352.7	345.8	344.4	344.4	339.0	344.4
55°	277.2	275.8	277.2	274.5	274.5	270.3	270.3	266.2	266.2	262.1	264.9
57.5°	203.1	205.8	203.1	204.5	207.2	203.1	201.7	197.6	200.3	197.6	199.0
60°	157.8	157.8	157.8	156.5	156.5	155.0	155.0	153.7	153.7	150.9	153.7
62.5°	116.6	118.0	118.0	118.0	119.4	118.0	116.6	118.0	116.6	116.6	118.0
65°	76.9	78.2	78.2	76.9	79.6	76.9	78.2	79.6	80.9	79.6	80.9
67.5°	52.1	52.1	53.5	54.9	53.5	54.9	56.3	54.9	56.3	59.0	56.3
70°	38.4	39.8	39.8	38.4	37.1	38.4	37.1	41.2	41.2	41.2	43.9
72.5°	24.7	24.7	23.3	23.3	23.3	23.3	23.3	27.5	24.7	23.3	26.1
75°	13.7	15.1	15.1	11.0	12.4	15.1	11.0	12.4	16.5	13.7	16.5
77.5°	8.2	8.2	8.2	8.2	8.2	8.2	11.0	9.6	9.6	9.6	11.0
80°	6.8	5.5	5.5	4.1	5.5	5.5	5.5	8.2	6.8	6.8	8.2
82.5°	2.8	2.8	1.4	0.0	2.8	2.8	2.8	2.8	2.8	2.8	5.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	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: P248893

CATALOG NUMBER: LD8B60D010 ER8B60840 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4
2.5°	2807.7	2807.7	2806.3	2803.6	2798.1	2798.1	2796.7	2792.6	2789.9	2788.5	2788.5
5°	2793.9	2788.5	2783.0	2767.9	2767.9	2765.1	2756.9	2751.4	2748.7	2741.8	2739.1
7.5°	2781.6	2765.1	2755.5	2745.9	2733.6	2728.1	2718.5	2714.3	2704.7	2697.9	2693.8
10°	2751.4	2740.4	2728.1	2713.0	2703.4	2692.4	2681.4	2673.2	2660.9	2654.0	2648.5
12.5°	2730.8	2714.3	2703.4	2686.9	2670.5	2660.9	2645.8	2636.2	2623.8	2610.1	2601.8
15°	2711.6	2693.8	2678.7	2660.9	2643.0	2632.0	2614.2	2603.2	2585.4	2571.7	2562.1
17.5°	2682.8	2667.7	2651.3	2629.3	2612.8	2599.1	2579.9	2566.2	2549.7	2531.8	2522.2
20°	2652.6	2634.8	2618.3	2596.4	2579.9	2563.4	2544.2	2529.1	2509.9	2493.4	2482.5
22.5°	2612.8	2592.2	2578.5	2556.5	2537.3	2519.5	2501.7	2483.8	2466.0	2452.3	2439.9
25°	2555.2	2533.2	2518.1	2500.3	2482.5	2468.8	2446.8	2435.8	2418.0	2405.6	2393.2
27.5°	2472.8	2456.4	2442.7	2424.8	2409.7	2398.8	2382.3	2371.3	2356.2	2345.2	2335.6
30°	2352.1	2338.4	2326.0	2308.2	2297.2	2287.6	2272.5	2262.9	2251.9	2239.5	2236.8
32.5°	2190.2	2179.2	2166.8	2154.5	2146.2	2140.7	2128.4	2122.9	2111.9	2105.1	2098.2
35°	1945.9	1936.3	1929.4	1924.0	1921.2	1922.6	1919.8	1925.3	1928.0	1926.7	1928.0
37.5°	1626.2	1620.6	1623.4	1627.5	1641.3	1659.1	1675.5	1700.2	1716.7	1733.2	1748.3
40°	1269.4	1273.5	1284.4	1309.1	1344.8	1384.7	1421.7	1468.4	1515.0	1547.9	1578.1
42.5°	957.9	970.2	997.6	1033.3	1086.9	1145.8	1203.5	1272.1	1328.4	1383.2	1421.7
45°	720.5	736.9	772.6	822.0	881.0	949.6	1022.4	1099.2	1166.5	1222.7	1265.2
47.5°	561.3	576.4	612.1	664.2	736.9	808.3	883.8	963.3	1033.3	1088.2	1125.3
50°	443.2	462.4	494.0	548.9	621.7	697.1	775.4	853.5	919.4	966.1	999.0
52.5°	348.6	366.4	396.6	454.2	528.4	603.8	676.5	753.4	811.0	856.3	878.3
55°	270.3	286.8	318.3	366.4	436.4	510.5	583.2	649.1	702.6	735.5	756.2
57.5°	205.8	218.2	240.2	288.2	351.3	419.9	481.7	547.6	588.7	612.1	625.7
60°	156.5	166.1	189.4	226.4	284.1	343.1	395.2	444.6	477.6	496.8	510.5
62.5°	118.0	129.0	145.4	177.0	220.9	269.0	312.9	349.9	377.4	389.7	399.3
65°	80.9	89.2	101.6	126.2	163.3	197.6	231.9	259.4	277.2	290.9	296.4
67.5°	60.4	65.9	72.8	92.0	118.0	145.4	168.8	188.0	207.2	212.7	222.3
70°	45.3	49.4	56.3	70.0	85.1	104.3	123.5	134.5	148.2	157.8	160.6
72.5°	28.8	30.2	37.1	45.3	57.6	70.0	82.4	92.0	100.2	105.7	108.4
75°	16.5	24.7	24.7	32.9	41.2	46.7	54.9	61.7	65.9	70.0	70.0
77.5°	11.0	15.1	16.5	20.6	24.7	31.6	38.4	42.5	46.7	48.0	48.0
80°	9.6	11.0	11.0	15.1	17.8	23.3	27.5	28.8	31.6	32.9	35.7
82.5°	4.1	5.5	6.8	11.0	12.4	12.4	16.5	17.8	20.6	22.0	22.0
85°	1.4	2.8	2.8	4.1	6.8	8.2	9.6	11.0	12.4	12.4	13.7
87.5°	1.4	1.4	0.0	1.4	2.8	2.8	5.5	5.5	5.5	8.2	8.2
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: P248893

CATALOG NUMBER: LD8B60D010 ER8B60840 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4	2810.4
2.5°	2785.7	2787.1	2781.6	2780.3	2777.5	2778.9	2781.6
5°	2735.0	2736.3	2730.8	2725.4	2725.4	2723.9	2725.4
7.5°	2686.9	2688.3	2680.1	2677.3	2671.8	2673.2	2673.2
10°	2638.9	2638.9	2626.6	2625.2	2621.0	2619.7	2619.7
12.5°	2592.2	2588.1	2578.5	2573.0	2575.8	2567.5	2567.5
15°	2551.1	2544.2	2531.8	2527.7	2520.9	2518.1	2518.1
17.5°	2508.5	2503.0	2492.1	2483.8	2475.6	2474.2	2475.6
20°	2467.3	2461.9	2448.1	2442.7	2435.8	2435.8	2433.1
22.5°	2426.2	2420.7	2408.4	2404.2	2394.6	2394.6	2396.0
25°	2383.6	2379.5	2365.8	2363.1	2361.7	2356.2	2358.9
27.5°	2326.0	2323.3	2312.3	2308.2	2302.7	2301.3	2304.0
30°	2220.3	2216.2	2208.0	2203.9	2194.3	2195.7	2198.4
32.5°	2088.6	2083.1	2072.1	2068.0	2059.8	2057.0	2058.4
35°	1924.0	1919.8	1910.2	1910.2	1902.0	1899.2	1902.0
37.5°	1756.5	1760.6	1756.5	1760.6	1756.5	1755.1	1756.5
40°	1598.7	1613.8	1616.5	1631.7	1626.2	1634.4	1633.0
42.5°	1447.7	1472.4	1482.1	1494.4	1491.7	1497.2	1501.3
45°	1295.4	1316.0	1325.6	1333.9	1335.2	1338.0	1339.4
47.5°	1151.3	1167.8	1169.2	1178.8	1177.4	1177.4	1181.5
50°	1016.9	1027.8	1030.6	1037.4	1032.0	1029.2	1030.6
52.5°	892.0	903.0	900.2	903.0	896.1	893.4	894.7
55°	764.3	769.8	769.8	769.8	761.6	761.6	761.6
57.5°	634.0	635.4	632.6	634.0	632.6	624.4	623.0
60°	514.6	514.6	513.2	514.6	510.5	506.4	506.4
62.5°	402.1	404.8	410.3	404.8	402.1	404.8	400.7
65°	300.6	306.0	304.6	307.4	306.0	306.0	303.3
67.5°	226.4	227.8	229.2	230.6	230.6	230.6	230.6
70°	166.1	170.2	168.8	168.8	168.8	168.8	177.0
72.5°	111.2	116.6	115.3	118.0	118.0	120.8	118.0
75°	75.5	80.9	78.2	82.4	80.9	78.2	85.1
77.5°	50.8	53.5	54.9	56.3	54.9	53.5	54.9
80°	35.7	38.4	37.1	38.4	38.4	38.4	39.8
82.5°	22.0	26.1	24.7	26.1	24.7	26.1	26.1
85°	15.1	16.5	13.7	16.5	15.1	15.1	17.8
87.5°	9.6	8.2	8.2	9.6	8.2	9.6	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)