

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: P249073

Luminaire Tested: **LD8B60D010 ER8B609730 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249073
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 ER8B609730 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4546.0 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

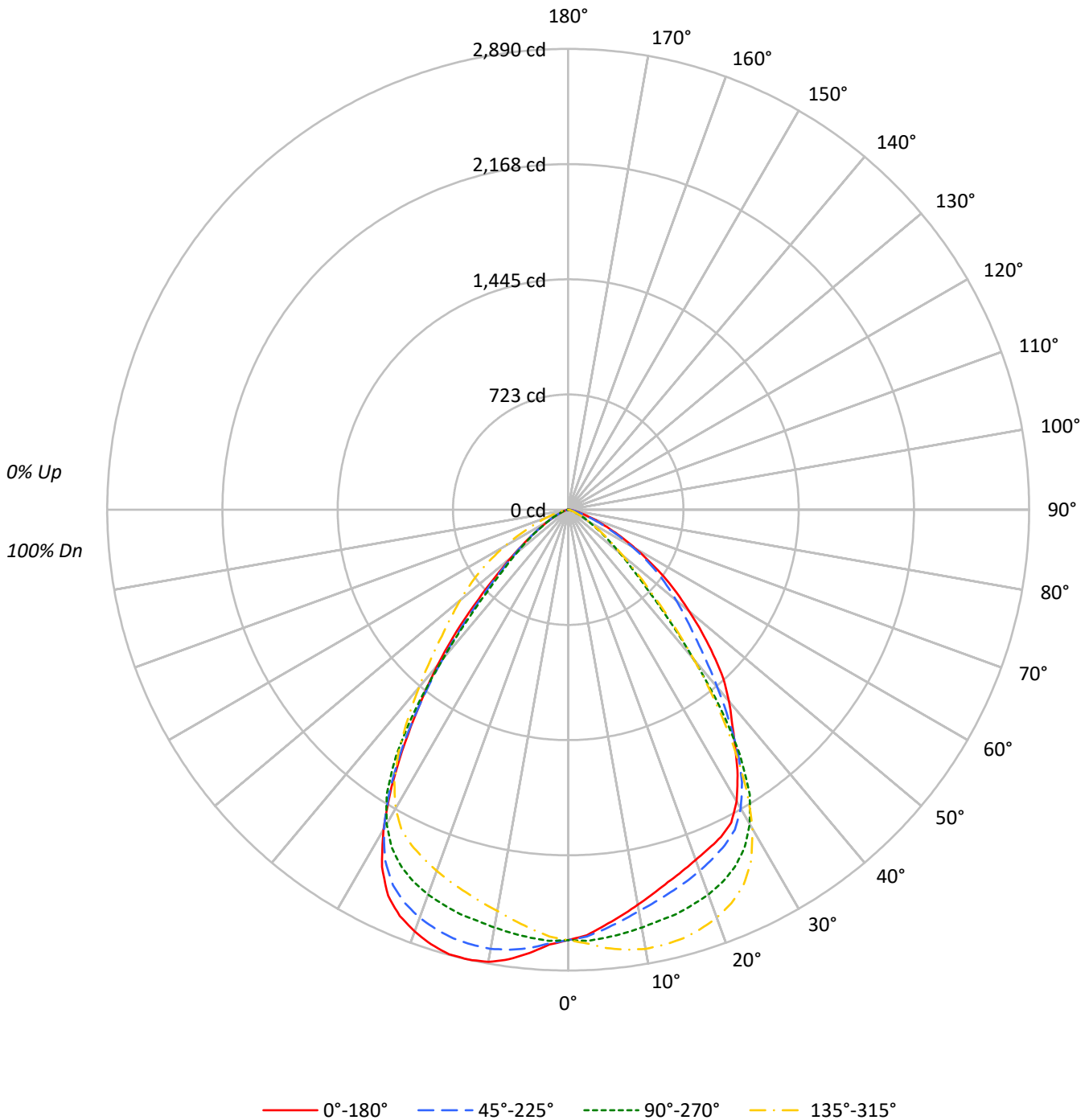
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.9	5.7
10°-20°	743.9	16.4
20°-30°	1126.4	24.8
30°-40°	1128.9	24.8
40°-50°	708.9	15.6
50°-60°	377.8	8.3
60°-70°	155.3	3.4
70°-80°	41.0	0.9
80°-90°	7.0	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°	2127.1	46.8
0°-40°	3256.0	71.6
0°-60°	4342.7	95.5
0°-90°	4546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4546.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2699	2699	2699	2699	2699	
5°	2617	2695	2791	2695	2617	247
15°	2418	2625	2886	2625	2418	684
25°	2265	2472	2671	2472	2265	1039
35°	1826	1878	1782	1878	1826	1144
45°	1286	688	796	688	1286	989
55°	731	254	269	254	731	652
65°	291	78	71	78	291	302
75°	82	16	13	16	82	93
85°	17	0	1	0	17	19
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°	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8
2.5°	2671.2	2668.5	2667.2	2669.9	2671.2	2676.4	2675.1	2677.7	2677.7	2679.1	2681.7
5°	2617.1	2615.8	2617.1	2617.1	2622.4	2627.7	2626.4	2630.3	2632.9	2639.5	2642.1
7.5°	2567.1	2567.1	2565.7	2571.0	2573.6	2581.5	2580.2	2586.8	2590.8	2597.3	2606.6
10°	2515.6	2515.6	2516.9	2520.9	2522.3	2534.1	2534.1	2543.3	2548.6	2555.2	2567.1
12.5°	2465.6	2465.6	2473.5	2470.8	2476.1	2485.3	2489.3	2498.5	2506.4	2519.6	2531.5
15°	2418.1	2418.1	2420.8	2427.3	2431.3	2443.2	2449.7	2460.3	2469.5	2482.7	2499.9
17.5°	2377.3	2376.0	2377.3	2385.2	2393.1	2403.6	2408.9	2422.1	2431.3	2448.4	2464.3
20°	2336.4	2339.1	2339.1	2345.7	2350.9	2364.1	2369.4	2383.9	2394.4	2410.2	2428.7
22.5°	2300.8	2299.5	2299.5	2308.8	2312.7	2324.6	2329.8	2343.0	2354.9	2368.1	2385.2
25°	2265.3	2262.6	2267.9	2269.2	2271.8	2285.0	2289.0	2298.2	2310.1	2321.9	2339.1
27.5°	2212.5	2209.9	2211.2	2216.5	2220.5	2231.0	2233.6	2242.9	2252.1	2262.6	2277.1
30°	2111.1	2108.5	2107.2	2116.4	2120.3	2128.2	2132.2	2148.0	2150.6	2162.5	2173.0
32.5°	1976.7	1975.3	1978.0	1985.9	1989.8	2000.4	2005.7	2014.9	2021.5	2028.1	2038.6
35°	1826.5	1823.8	1826.5	1834.4	1834.4	1843.6	1847.6	1851.5	1850.2	1851.5	1848.9
37.5°	1686.8	1685.4	1686.8	1690.7	1686.8	1690.7	1686.8	1678.9	1664.4	1648.5	1632.7
40°	1568.2	1569.5	1561.6	1566.9	1552.3	1549.7	1535.2	1515.4	1486.5	1454.9	1410.0
42.5°	1441.7	1437.7	1432.5	1435.1	1423.2	1414.0	1390.3	1365.2	1328.3	1275.6	1221.6
45°	1286.2	1284.9	1282.2	1280.9	1273.0	1263.8	1244.0	1215.0	1174.2	1120.1	1055.5
47.5°	1134.6	1130.7	1130.7	1132.0	1122.7	1121.4	1105.6	1080.6	1045.0	992.3	925.1
50°	989.6	988.3	991.0	996.2	989.6	987.0	976.5	959.4	927.7	882.9	819.6
52.5°	859.2	857.9	860.5	867.1	864.4	867.1	856.6	843.4	822.3	778.8	723.5
55°	731.4	731.4	731.4	739.3	739.3	739.3	734.0	726.1	706.3	674.7	623.3
57.5°	598.3	599.6	607.5	608.8	607.5	610.2	608.8	600.9	587.8	565.4	525.8
60°	486.3	486.3	490.2	494.2	492.8	494.2	494.2	490.2	477.0	458.6	427.0
62.5°	384.8	388.7	386.1	388.7	394.0	388.7	386.1	383.5	374.3	362.4	336.0
65°	291.2	293.9	293.9	295.2	292.5	293.9	288.6	284.7	279.4	266.2	249.1
67.5°	221.4	221.4	221.4	221.4	220.1	218.8	217.5	213.5	204.3	199.0	180.5
70°	170.0	162.1	162.1	162.1	162.1	163.4	159.5	154.2	151.5	142.3	129.1
72.5°	113.3	116.0	113.3	113.3	110.7	112.0	106.7	104.1	101.5	96.2	88.3
75°	81.7	75.1	77.7	79.1	75.1	77.7	72.5	67.2	67.2	63.2	59.3
77.5°	52.7	51.4	52.7	54.0	52.7	51.4	48.8	46.1	46.1	44.8	40.8
80°	38.2	36.9	36.9	36.9	35.6	36.9	34.3	34.3	31.6	30.3	27.7
82.5°	25.1	25.1	23.7	25.1	23.7	25.1	21.1	21.1	21.1	19.7	17.1
85°	17.1	14.5	14.5	15.8	13.2	15.8	14.5	13.2	11.9	11.9	10.5
87.5°	7.9	9.2	7.9	9.2	7.9	7.9	9.2	7.9	7.9	5.3	5.3
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°	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8
2.5°	2685.6	2686.9	2686.9	2692.3	2694.9	2696.2	2696.2	2706.7	2702.8	2705.4	2708.0
5°	2647.4	2655.3	2658.0	2658.0	2672.5	2677.7	2683.0	2694.9	2696.2	2704.1	2713.3
7.5°	2610.5	2619.7	2625.0	2636.9	2646.1	2655.3	2671.2	2679.1	2686.9	2697.5	2709.3
10°	2574.9	2585.5	2596.0	2605.3	2619.7	2631.6	2642.1	2660.6	2669.9	2684.3	2700.1
12.5°	2540.7	2555.2	2564.4	2580.2	2596.0	2606.6	2622.4	2639.5	2654.0	2668.5	2686.9
15°	2510.4	2527.5	2538.0	2555.2	2572.3	2586.8	2603.9	2625.0	2635.6	2652.7	2669.9
17.5°	2477.4	2495.9	2509.1	2524.9	2546.0	2561.7	2576.3	2597.3	2610.5	2629.0	2648.8
20°	2443.2	2461.6	2477.4	2493.2	2514.3	2530.1	2547.3	2568.4	2582.8	2601.3	2617.1
22.5°	2402.3	2419.5	2436.6	2455.0	2476.1	2489.3	2509.1	2527.5	2543.3	2560.4	2576.3
25°	2349.6	2370.7	2383.9	2401.0	2418.1	2432.6	2453.7	2472.1	2485.3	2501.2	2515.6
27.5°	2287.7	2303.5	2314.0	2328.5	2345.7	2358.8	2374.6	2393.1	2406.3	2420.8	2431.3
30°	2182.2	2196.8	2206.0	2216.5	2233.6	2245.5	2258.7	2275.8	2285.0	2295.6	2304.8
32.5°	2043.9	2055.7	2061.0	2068.9	2080.8	2092.6	2103.2	2117.7	2121.6	2128.2	2128.2
35°	1843.6	1846.2	1844.9	1847.6	1852.8	1859.4	1868.6	1877.8	1883.1	1883.1	1879.2
37.5°	1609.0	1593.2	1576.1	1562.9	1558.9	1556.3	1561.6	1565.5	1570.8	1573.4	1566.9
40°	1365.2	1329.7	1291.4	1257.1	1233.4	1222.9	1219.0	1221.6	1221.6	1230.8	1230.8
42.5°	1155.7	1100.3	1043.7	992.3	958.0	931.7	919.8	919.8	921.1	927.7	931.7
45°	981.8	911.9	846.0	789.4	741.9	707.6	691.8	687.9	686.6	689.2	698.4
47.5°	848.7	776.2	707.6	637.8	587.8	553.5	539.0	533.7	528.4	533.7	535.0
50°	744.6	669.4	597.0	527.1	474.4	444.1	425.6	417.7	416.4	416.4	419.1
52.5°	649.6	579.8	507.4	436.2	380.8	351.9	334.7	330.8	325.5	330.8	330.8
55°	560.0	490.2	419.1	351.9	305.7	275.4	259.6	254.3	251.7	255.6	255.6
57.5°	462.6	403.2	337.4	276.7	230.6	209.5	197.7	191.1	189.7	192.4	189.7
60°	379.5	329.5	272.8	217.5	181.9	159.5	150.2	147.6	144.9	147.6	147.6
62.5°	300.4	258.3	212.1	170.0	139.7	123.9	113.3	113.3	112.0	112.0	113.3
65°	222.7	189.7	156.8	121.2	97.5	85.6	77.7	77.7	76.4	77.7	76.4
67.5°	162.1	139.7	113.3	88.3	69.9	63.2	58.0	54.0	56.7	54.0	52.7
70°	118.6	100.1	81.7	67.2	54.0	47.5	43.5	42.1	39.5	39.5	39.5
72.5°	79.1	67.2	55.3	43.5	35.6	29.0	27.7	25.1	22.4	23.7	26.4
75°	52.7	44.8	39.5	31.6	23.7	23.7	15.8	15.8	13.2	15.8	11.9
77.5°	36.9	30.3	23.7	19.7	15.8	14.5	10.5	10.5	9.2	9.2	9.2
80°	26.4	22.4	17.1	14.5	10.5	10.5	9.2	7.9	6.6	6.6	7.9
82.5°	15.8	11.9	11.9	10.5	6.6	5.3	4.0	5.3	2.7	2.7	2.7
85°	9.2	7.9	6.6	4.0	2.7	2.7	1.3	0.0	1.3	1.3	0.0
87.5°	5.3	2.7	2.7	1.3	0.0	1.3	1.3	0.0	0.0	0.0	2.7
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°	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8
2.5°	2714.7	2713.3	2716.0	2716.0	2723.9	2722.5	2726.5	2726.5	2723.9	2725.2	2730.4
5°	2723.9	2727.8	2735.7	2742.3	2754.1	2759.5	2766.0	2772.6	2773.9	2777.9	2781.9
7.5°	2723.9	2737.1	2746.3	2758.1	2773.9	2783.2	2797.6	2809.5	2814.8	2821.3	2829.3
10°	2718.6	2731.7	2748.9	2762.1	2781.9	2796.3	2810.8	2829.3	2837.2	2847.7	2858.3
12.5°	2708.0	2722.5	2741.0	2758.1	2780.5	2793.7	2812.1	2829.3	2841.1	2855.6	2867.5
15°	2692.3	2709.3	2726.5	2743.6	2767.3	2783.2	2800.3	2820.0	2831.9	2847.7	2858.3
17.5°	2667.2	2685.6	2701.5	2717.3	2739.7	2758.1	2773.9	2792.4	2804.3	2817.4	2831.9
20°	2636.9	2654.0	2671.2	2684.3	2706.7	2722.5	2739.7	2756.8	2766.0	2768.7	2791.1
22.5°	2598.7	2610.5	2623.7	2644.8	2658.0	2672.5	2688.3	2704.1	2713.3	2727.8	2735.7
25°	2535.4	2547.3	2561.7	2571.0	2586.8	2598.7	2614.5	2631.6	2636.9	2647.4	2655.3
27.5°	2447.1	2453.7	2460.3	2468.2	2477.4	2484.0	2493.2	2501.2	2506.4	2511.7	2516.9
30°	2307.4	2307.4	2307.4	2302.2	2306.1	2310.1	2311.4	2310.1	2310.1	2308.8	2308.8
32.5°	2122.9	2112.4	2100.5	2090.0	2086.1	2080.8	2078.1	2074.2	2067.6	2063.7	2065.0
35°	1873.9	1850.2	1835.7	1822.5	1812.0	1804.1	1800.1	1796.1	1794.8	1789.6	1784.3
37.5°	1562.9	1545.8	1535.2	1527.3	1518.1	1510.2	1511.5	1512.8	1516.7	1514.1	1515.4
40°	1233.4	1229.5	1233.4	1224.2	1221.6	1224.2	1230.8	1240.1	1245.3	1250.6	1259.8
42.5°	938.3	944.8	954.1	954.1	958.0	963.3	971.2	985.7	993.6	1002.8	1013.4
45°	706.3	714.2	726.1	730.0	732.7	739.3	748.5	760.4	765.6	773.5	782.8
47.5°	544.3	549.5	556.1	562.7	569.3	571.9	581.1	581.1	587.8	593.0	595.6
50°	424.3	429.6	434.9	438.8	441.5	445.4	448.0	452.0	453.3	456.0	457.3
52.5°	332.1	338.7	338.7	341.3	345.2	349.2	347.9	349.2	350.5	350.5	354.5
55°	259.6	259.6	263.6	263.6	266.2	264.9	266.2	266.2	266.2	266.2	267.5
57.5°	193.7	195.1	199.0	196.4	195.1	197.7	195.1	197.7	196.4	199.0	195.1
60°	148.9	148.9	150.2	150.2	151.5	151.5	151.5	150.2	150.2	148.9	148.9
62.5°	112.0	113.3	114.7	113.3	113.3	113.3	112.0	112.0	110.7	109.3	109.3
65°	75.1	73.8	76.4	73.8	75.1	75.1	73.8	75.1	71.2	72.5	71.2
67.5°	54.0	52.7	51.4	52.7	51.4	50.1	50.1	51.4	52.7	48.8	48.8
70°	35.6	36.9	35.6	36.9	38.2	38.2	36.9	35.6	36.9	34.3	35.6
72.5°	22.4	22.4	22.4	22.4	22.4	23.7	23.7	23.7	21.1	21.1	19.7
75°	10.5	14.5	11.9	10.5	14.5	14.5	13.2	13.2	11.9	11.9	11.9
77.5°	10.5	7.9	7.9	7.9	7.9	7.9	7.9	7.9	6.6	7.9	6.6
80°	5.3	5.3	5.3	4.0	5.3	5.3	6.6	5.3	5.3	4.0	6.6
82.5°	2.7	2.7	2.7	0.0	1.3	2.7	2.7	1.3	2.7	2.7	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: P249073

CATALOG NUMBER: LD8B60D010 ER8B609730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8
2.5°	2729.1	2727.8	2729.1	2730.4	2729.1	2727.8	2729.1	2730.4	2725.2	2723.9	2726.5
5°	2787.1	2787.1	2789.7	2791.1	2789.7	2787.1	2787.1	2781.9	2777.9	2773.9	2772.6
7.5°	2837.2	2839.8	2842.4	2843.7	2842.4	2839.8	2837.2	2829.3	2821.3	2814.8	2809.5
10°	2867.5	2871.5	2876.7	2879.3	2876.7	2871.5	2867.5	2858.3	2847.7	2837.2	2829.3
12.5°	2880.7	2884.6	2891.2	2889.9	2891.2	2884.6	2880.7	2867.5	2855.6	2841.1	2829.3
15°	2871.5	2876.7	2883.3	2885.9	2883.3	2876.7	2871.5	2858.3	2847.7	2831.9	2820.0
17.5°	2842.4	2850.4	2854.3	2858.3	2854.3	2850.4	2842.4	2831.9	2817.4	2804.3	2792.4
20°	2802.9	2808.2	2813.5	2814.8	2813.5	2808.2	2802.9	2791.1	2768.7	2766.0	2756.8
22.5°	2746.3	2750.2	2762.1	2758.1	2762.1	2750.2	2746.3	2735.7	2727.8	2713.3	2704.1
25°	2664.5	2668.5	2669.9	2671.2	2669.9	2668.5	2664.5	2655.3	2647.4	2636.9	2631.6
27.5°	2523.6	2523.6	2526.2	2527.5	2526.2	2523.6	2523.6	2516.9	2511.7	2506.4	2501.2
30°	2310.1	2310.1	2310.1	2316.7	2310.1	2310.1	2310.1	2308.8	2308.8	2310.1	2310.1
32.5°	2063.7	2061.0	2058.4	2061.0	2058.4	2061.0	2063.7	2065.0	2063.7	2067.6	2074.2
35°	1784.3	1783.0	1786.9	1781.7	1786.9	1783.0	1784.3	1784.3	1789.6	1794.8	1796.1
37.5°	1516.7	1514.1	1519.4	1514.1	1519.4	1514.1	1516.7	1515.4	1514.1	1516.7	1512.8
40°	1262.5	1265.1	1265.1	1275.6	1265.1	1265.1	1262.5	1259.8	1250.6	1245.3	1240.1
42.5°	1018.6	1026.6	1023.9	1031.8	1023.9	1026.6	1018.6	1013.4	1002.8	993.6	985.7
45°	788.0	793.3	793.3	795.9	793.3	793.3	788.0	782.8	773.5	765.6	760.4
47.5°	604.8	604.8	604.8	606.2	604.8	604.8	604.8	595.6	593.0	587.8	581.1
50°	459.9	461.2	462.6	463.9	462.6	461.2	459.9	457.3	456.0	453.3	452.0
52.5°	353.2	354.5	351.9	354.5	351.9	354.5	353.2	354.5	350.5	350.5	349.2
55°	267.5	266.2	267.5	268.8	267.5	266.2	267.5	267.5	266.2	266.2	266.2
57.5°	196.4	193.7	193.7	193.7	193.7	193.7	196.4	195.1	199.0	196.4	197.7
60°	146.3	147.6	147.6	148.9	147.6	147.6	146.3	148.9	148.9	150.2	150.2
62.5°	108.0	112.0	109.3	112.0	109.3	112.0	108.0	109.3	109.3	110.7	112.0
65°	69.9	69.9	69.9	71.2	69.9	69.9	69.9	71.2	72.5	71.2	75.1
67.5°	47.5	48.8	51.4	50.1	51.4	48.8	47.5	48.8	48.8	52.7	51.4
70°	38.2	34.3	34.3	38.2	34.3	34.3	38.2	35.6	34.3	36.9	35.6
72.5°	22.4	19.7	22.4	22.4	22.4	19.7	22.4	19.7	21.1	21.1	23.7
75°	11.9	10.5	9.2	13.2	9.2	10.5	11.9	11.9	11.9	11.9	13.2
77.5°	7.9	6.6	9.2	9.2	9.2	6.6	7.9	6.6	7.9	6.6	7.9
80°	4.0	5.3	4.0	6.6	4.0	5.3	4.0	6.6	4.0	5.3	5.3
82.5°	1.3	2.7	2.7	2.7	2.7	2.7	1.3	1.3	2.7	2.7	1.3
85°	0.0	2.7	1.3	1.3	1.3	2.7	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: P249073

CATALOG NUMBER: LD8B60D010 ER8B609730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8
2.5°	2726.5	2722.5	2723.9	2716.0	2716.0	2713.3	2714.7	2708.0	2705.4	2702.8	2706.7
5°	2766.0	2759.5	2754.1	2742.3	2735.7	2727.8	2723.9	2713.3	2704.1	2696.2	2694.9
7.5°	2797.6	2783.2	2773.9	2758.1	2746.3	2737.1	2723.9	2709.3	2697.5	2686.9	2679.1
10°	2810.8	2796.3	2781.9	2762.1	2748.9	2731.7	2718.6	2700.1	2684.3	2669.9	2660.6
12.5°	2812.1	2793.7	2780.5	2758.1	2741.0	2722.5	2708.0	2686.9	2668.5	2654.0	2639.5
15°	2800.3	2783.2	2767.3	2743.6	2726.5	2709.3	2692.3	2669.9	2652.7	2635.6	2625.0
17.5°	2773.9	2758.1	2739.7	2717.3	2701.5	2685.6	2667.2	2648.8	2629.0	2610.5	2597.3
20°	2739.7	2722.5	2706.7	2684.3	2671.2	2654.0	2636.9	2617.1	2601.3	2582.8	2568.4
22.5°	2688.3	2672.5	2658.0	2644.8	2623.7	2610.5	2598.7	2576.3	2560.4	2543.3	2527.5
25°	2614.5	2598.7	2586.8	2571.0	2561.7	2547.3	2535.4	2515.6	2501.2	2485.3	2472.1
27.5°	2493.2	2484.0	2477.4	2468.2	2460.3	2453.7	2447.1	2431.3	2420.8	2406.3	2393.1
30°	2311.4	2310.1	2306.1	2302.2	2307.4	2307.4	2307.4	2304.8	2295.6	2285.0	2275.8
32.5°	2078.1	2080.8	2086.1	2090.0	2100.5	2112.4	2122.9	2128.2	2128.2	2121.6	2117.7
35°	1800.1	1804.1	1812.0	1822.5	1835.7	1850.2	1873.9	1879.2	1883.1	1883.1	1877.8
37.5°	1511.5	1510.2	1518.1	1527.3	1535.2	1545.8	1562.9	1566.9	1573.4	1570.8	1565.5
40°	1230.8	1224.2	1221.6	1224.2	1233.4	1229.5	1233.4	1230.8	1230.8	1221.6	1221.6
42.5°	971.2	963.3	958.0	954.1	954.1	944.8	938.3	931.7	927.7	921.1	919.8
45°	748.5	739.3	732.7	730.0	726.1	714.2	706.3	698.4	689.2	686.6	687.9
47.5°	581.1	571.9	569.3	562.7	556.1	549.5	544.3	535.0	533.7	528.4	533.7
50°	448.0	445.4	441.5	438.8	434.9	429.6	424.3	419.1	416.4	416.4	417.7
52.5°	347.9	349.2	345.2	341.3	338.7	338.7	332.1	330.8	330.8	325.5	330.8
55°	266.2	264.9	266.2	263.6	263.6	259.6	259.6	255.6	255.6	251.7	254.3
57.5°	195.1	197.7	195.1	196.4	199.0	195.1	193.7	189.7	192.4	189.7	191.1
60°	151.5	151.5	151.5	150.2	150.2	148.9	148.9	147.6	147.6	144.9	147.6
62.5°	112.0	113.3	113.3	113.3	114.7	113.3	112.0	113.3	112.0	112.0	113.3
65°	73.8	75.1	75.1	73.8	76.4	73.8	75.1	76.4	77.7	76.4	77.7
67.5°	50.1	50.1	51.4	52.7	51.4	52.7	54.0	52.7	54.0	56.7	54.0
70°	36.9	38.2	38.2	36.9	35.6	36.9	35.6	39.5	39.5	39.5	42.1
72.5°	23.7	23.7	22.4	22.4	22.4	22.4	22.4	26.4	23.7	22.4	25.1
75°	13.2	14.5	14.5	10.5	11.9	14.5	10.5	11.9	15.8	13.2	15.8
77.5°	7.9	7.9	7.9	7.9	7.9	7.9	10.5	9.2	9.2	9.2	10.5
80°	6.6	5.3	5.3	4.0	5.3	5.3	5.3	7.9	6.6	6.6	7.9
82.5°	2.7	2.7	1.3	0.0	2.7	2.7	2.7	2.7	2.7	2.7	5.3
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	2.7	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: P249073

CATALOG NUMBER: LD8B60D010 ER8B609730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8
2.5°	2696.2	2696.2	2694.9	2692.3	2686.9	2686.9	2685.6	2681.7	2679.1	2677.7	2677.7
5°	2683.0	2677.7	2672.5	2658.0	2658.0	2655.3	2647.4	2642.1	2639.5	2632.9	2630.3
7.5°	2671.2	2655.3	2646.1	2636.9	2625.0	2619.7	2610.5	2606.6	2597.3	2590.8	2586.8
10°	2642.1	2631.6	2619.7	2605.3	2596.0	2585.5	2574.9	2567.1	2555.2	2548.6	2543.3
12.5°	2622.4	2606.6	2596.0	2580.2	2564.4	2555.2	2540.7	2531.5	2519.6	2506.4	2498.5
15°	2603.9	2586.8	2572.3	2555.2	2538.0	2527.5	2510.4	2499.9	2482.7	2469.5	2460.3
17.5°	2576.3	2561.7	2546.0	2524.9	2509.1	2495.9	2477.4	2464.3	2448.4	2431.3	2422.1
20°	2547.3	2530.1	2514.3	2493.2	2477.4	2461.6	2443.2	2428.7	2410.2	2394.4	2383.9
22.5°	2509.1	2489.3	2476.1	2455.0	2436.6	2419.5	2402.3	2385.2	2368.1	2354.9	2343.0
25°	2453.7	2432.6	2418.1	2401.0	2383.9	2370.7	2349.6	2339.1	2321.9	2310.1	2298.2
27.5°	2374.6	2358.8	2345.7	2328.5	2314.0	2303.5	2287.7	2277.1	2262.6	2252.1	2242.9
30°	2258.7	2245.5	2233.6	2216.5	2206.0	2196.8	2182.2	2173.0	2162.5	2150.6	2148.0
32.5°	2103.2	2092.6	2080.8	2068.9	2061.0	2055.7	2043.9	2038.6	2028.1	2021.5	2014.9
35°	1868.6	1859.4	1852.8	1847.6	1844.9	1846.2	1843.6	1848.9	1851.5	1850.2	1851.5
37.5°	1561.6	1556.3	1558.9	1562.9	1576.1	1593.2	1609.0	1632.7	1648.5	1664.4	1678.9
40°	1219.0	1222.9	1233.4	1257.1	1291.4	1329.7	1365.2	1410.0	1454.9	1486.5	1515.4
42.5°	919.8	931.7	958.0	992.3	1043.7	1100.3	1155.7	1221.6	1275.6	1328.3	1365.2
45°	691.8	707.6	741.9	789.4	846.0	911.9	981.8	1055.5	1120.1	1174.2	1215.0
47.5°	539.0	553.5	587.8	637.8	707.6	776.2	848.7	925.1	992.3	1045.0	1080.6
50°	425.6	444.1	474.4	527.1	597.0	669.4	744.6	819.6	882.9	927.7	959.4
52.5°	334.7	351.9	380.8	436.2	507.4	579.8	649.6	723.5	778.8	822.3	843.4
55°	259.6	275.4	305.7	351.9	419.1	490.2	560.0	623.3	674.7	706.3	726.1
57.5°	197.7	209.5	230.6	276.7	337.4	403.2	462.6	525.8	565.4	587.8	600.9
60°	150.2	159.5	181.9	217.5	272.8	329.5	379.5	427.0	458.6	477.0	490.2
62.5°	113.3	123.9	139.7	170.0	212.1	258.3	300.4	336.0	362.4	374.3	383.5
65°	77.7	85.6	97.5	121.2	156.8	189.7	222.7	249.1	266.2	279.4	284.7
67.5°	58.0	63.2	69.9	88.3	113.3	139.7	162.1	180.5	199.0	204.3	213.5
70°	43.5	47.5	54.0	67.2	81.7	100.1	118.6	129.1	142.3	151.5	154.2
72.5°	27.7	29.0	35.6	43.5	55.3	67.2	79.1	88.3	96.2	101.5	104.1
75°	15.8	23.7	23.7	31.6	39.5	44.8	52.7	59.3	63.2	67.2	67.2
77.5°	10.5	14.5	15.8	19.7	23.7	30.3	36.9	40.8	44.8	46.1	46.1
80°	9.2	10.5	10.5	14.5	17.1	22.4	26.4	27.7	30.3	31.6	34.3
82.5°	4.0	5.3	6.6	10.5	11.9	11.9	15.8	17.1	19.7	21.1	21.1
85°	1.3	2.7	2.7	4.0	6.6	7.9	9.2	10.5	11.9	11.9	13.2
87.5°	1.3	1.3	0.0	1.3	2.7	2.7	5.3	5.3	5.3	7.9	7.9
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: P249073

CATALOG NUMBER: LD8B60D010 ER8B609730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8	2698.8
2.5°	2675.1	2676.4	2671.2	2669.9	2667.2	2668.5	2671.2
5°	2626.4	2627.7	2622.4	2617.1	2617.1	2615.8	2617.1
7.5°	2580.2	2581.5	2573.6	2571.0	2565.7	2567.1	2567.1
10°	2534.1	2534.1	2522.3	2520.9	2516.9	2515.6	2515.6
12.5°	2489.3	2485.3	2476.1	2470.8	2473.5	2465.6	2465.6
15°	2449.7	2443.2	2431.3	2427.3	2420.8	2418.1	2418.1
17.5°	2408.9	2403.6	2393.1	2385.2	2377.3	2376.0	2377.3
20°	2369.4	2364.1	2350.9	2345.7	2339.1	2339.1	2336.4
22.5°	2329.8	2324.6	2312.7	2308.8	2299.5	2299.5	2300.8
25°	2289.0	2285.0	2271.8	2269.2	2267.9	2262.6	2265.3
27.5°	2233.6	2231.0	2220.5	2216.5	2211.2	2209.9	2212.5
30°	2132.2	2128.2	2120.3	2116.4	2107.2	2108.5	2111.1
32.5°	2005.7	2000.4	1989.8	1985.9	1978.0	1975.3	1976.7
35°	1847.6	1843.6	1834.4	1834.4	1826.5	1823.8	1826.5
37.5°	1686.8	1690.7	1686.8	1690.7	1686.8	1685.4	1686.8
40°	1535.2	1549.7	1552.3	1566.9	1561.6	1569.5	1568.2
42.5°	1390.3	1414.0	1423.2	1435.1	1432.5	1437.7	1441.7
45°	1244.0	1263.8	1273.0	1280.9	1282.2	1284.9	1286.2
47.5°	1105.6	1121.4	1122.7	1132.0	1130.7	1130.7	1134.6
50°	976.5	987.0	989.6	996.2	991.0	988.3	989.6
52.5°	856.6	867.1	864.4	867.1	860.5	857.9	859.2
55°	734.0	739.3	739.3	739.3	731.4	731.4	731.4
57.5°	608.8	610.2	607.5	608.8	607.5	599.6	598.3
60°	494.2	494.2	492.8	494.2	490.2	486.3	486.3
62.5°	386.1	388.7	394.0	388.7	386.1	388.7	384.8
65°	288.6	293.9	292.5	295.2	293.9	293.9	291.2
67.5°	217.5	218.8	220.1	221.4	221.4	221.4	221.4
70°	159.5	163.4	162.1	162.1	162.1	162.1	170.0
72.5°	106.7	112.0	110.7	113.3	113.3	116.0	113.3
75°	72.5	77.7	75.1	79.1	77.7	75.1	81.7
77.5°	48.8	51.4	52.7	54.0	52.7	51.4	52.7
80°	34.3	36.9	35.6	36.9	36.9	36.9	38.2
82.5°	21.1	25.1	23.7	25.1	23.7	25.1	25.1
85°	14.5	15.8	13.2	15.8	14.5	14.5	17.1
87.5°	9.2	7.9	7.9	9.2	7.9	9.2	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)