

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: P248435

Luminaire Tested: **LD8B70D010 ER8B70827 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B70D010 ER8B70827 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7216.0 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

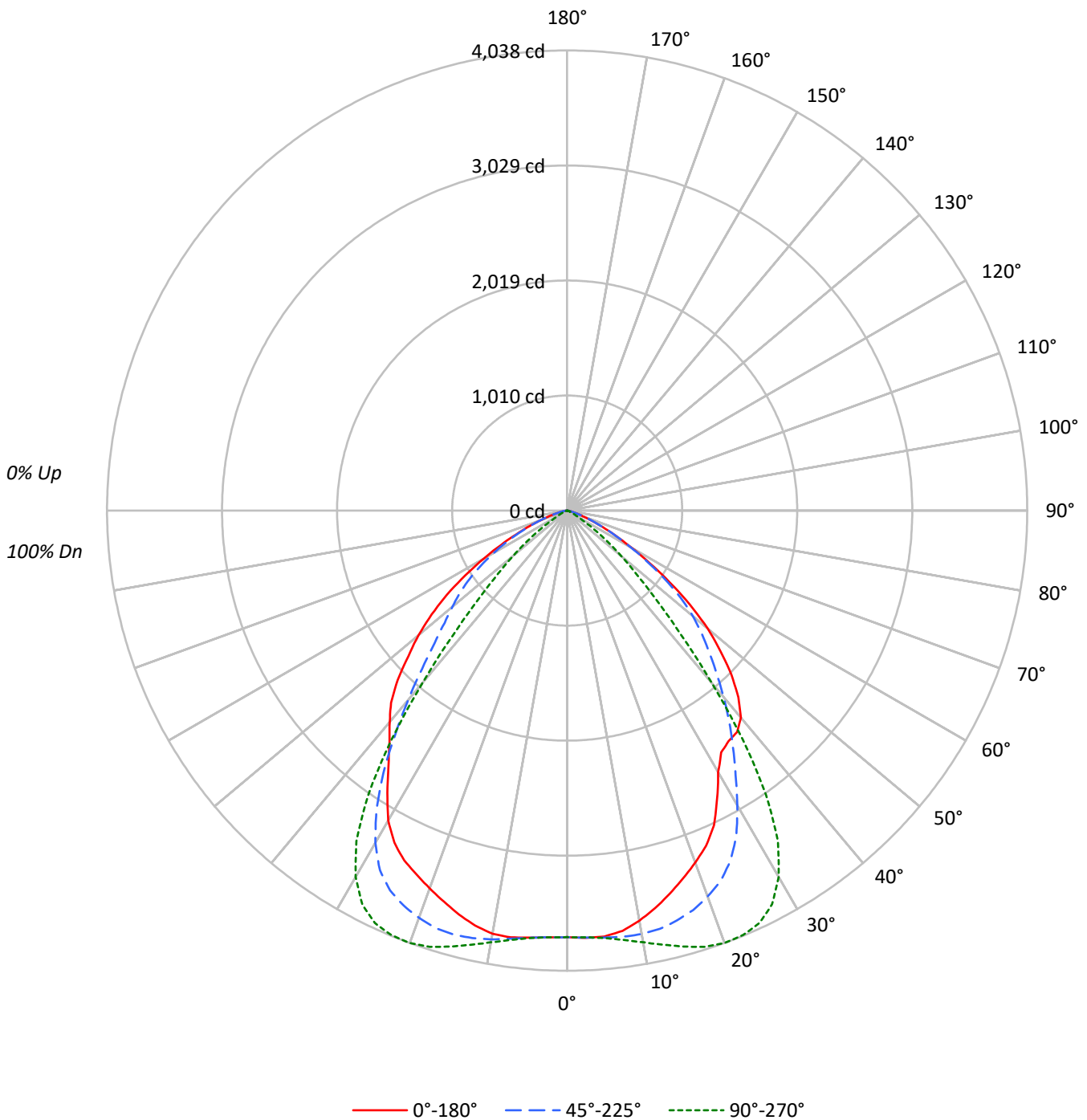
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	115433	115433	115433
5°	116121	116551	116428
10°	114414	120451	118087
15°	111070	126419	117158
20°	107844	132492	115736
25°	103705	135885	115199
30°	94379	132161	111784
35°	92974	114514	102848
40°	95498	79421	97499
45°	88902	48005	91675
50°	77111	29642	81688
55°	59181	15489	69325
60°	40315	6247	52323
65°	25078	3189	36096
70°	13614	1974	22035
75°	7101	941	13022
80°	3179	1065	7050
85°	2123	708	6333



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.0	5.0
10°-20°	1066.5	14.8
20°-30°	1627.0	22.5
30°-40°	1697.8	23.5
40°-50°	1275.2	17.7
50°-60°	784.6	10.9
60°-70°	319.3	4.4
70°-80°	75.2	1.0
80°-90°	10.4	0.1
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°	3053.4	42.3
0°-40°	4751.2	65.8
0°-60°	6811.1	94.4
0°-90°	7216.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7216.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3743	3743	3743	3743	3743	
5°	3751	3761	3765	3761	3761	355
15°	3479	3724	3960	3851	3670	980
25°	3048	3390	3994	3678	3386	1386
35°	2470	2539	3042	2812	2732	1559
45°	2039	1764	1101	1643	2102	1555
55°	1101	1045	288	1045	1290	989
65°	344	348	44	467	495	358
75°	60	60	8	105	109	72
85°	6	6	2	14	18	8
90°	0	0	0	0	0	



TEST NUMBER: P248435

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3743.4	3743.4	3743.4	3743.4	3743.4	3743.4	3743.4	3743.4	3743.4	3743.4	3743.4
2.5°	3753.4	3747.4	3753.4	3753.4	3755.4	3751.4	3753.4	3755.4	3751.4	3751.4	3751.4
5°	3751.4	3747.4	3751.4	3749.4	3753.4	3753.4	3757.4	3757.4	3761.3	3761.3	3767.3
7.5°	3719.6	3711.7	3719.6	3725.6	3729.5	3737.5	3747.4	3755.4	3763.3	3771.3	3781.2
10°	3654.0	3654.0	3660.0	3671.9	3683.8	3697.7	3715.6	3735.5	3755.4	3773.2	3791.1
12.5°	3572.6	3566.6	3578.5	3594.4	3612.3	3634.2	3662.0	3691.8	3723.6	3759.3	3787.2
15°	3479.2	3473.2	3487.1	3503.0	3524.9	3556.7	3590.5	3630.2	3675.9	3723.6	3769.3
17.5°	3383.8	3381.8	3395.7	3417.6	3435.5	3469.2	3513.0	3560.6	3612.3	3675.9	3735.5
20°	3286.4	3284.5	3298.4	3316.3	3340.1	3371.9	3415.6	3471.2	3532.8	3604.4	3673.9
22.5°	3185.1	3187.1	3199.0	3218.9	3238.8	3272.5	3318.2	3373.9	3441.4	3518.9	3596.4
25°	3048.0	3038.1	3054.0	3073.8	3107.6	3135.4	3179.1	3238.8	3308.3	3389.8	3481.2
27.5°	2849.3	2847.3	2861.2	2879.1	2908.9	2942.7	2990.4	3052.0	3125.5	3214.9	3304.3
30°	2650.6	2654.6	2660.5	2678.4	2698.3	2732.1	2779.8	2831.4	2901.0	2986.4	3081.8
32.5°	2515.5	2515.5	2523.4	2535.4	2549.3	2567.2	2600.9	2638.7	2692.3	2751.9	2821.5
35°	2469.8	2461.8	2469.8	2471.8	2473.8	2477.7	2483.7	2495.6	2513.5	2539.3	2565.2
37.5°	2449.9	2444.0	2444.0	2436.0	2426.1	2414.2	2398.3	2380.4	2360.5	2334.7	2314.8
40°	2372.4	2368.5	2364.5	2356.5	2334.7	2310.8	2285.0	2243.3	2197.6	2134.0	2070.4
42.5°	2223.4	2219.4	2217.4	2201.5	2181.7	2153.9	2124.1	2080.3	2022.7	1941.3	1849.8
45°	2038.6	2030.7	2024.7	2010.8	1996.9	1973.0	1945.2	1905.5	1847.9	1764.4	1655.1
47.5°	1824.0	1820.0	1818.1	1812.1	1798.2	1784.3	1766.4	1734.6	1682.9	1603.5	1490.2
50°	1607.4	1599.5	1603.5	1601.5	1595.5	1585.6	1573.7	1551.8	1512.1	1440.5	1337.2
52.5°	1359.1	1359.1	1357.1	1363.0	1365.0	1363.0	1365.0	1341.2	1307.4	1253.8	1166.3
55°	1100.8	1100.8	1106.7	1114.7	1122.6	1124.6	1122.6	1112.7	1088.8	1045.1	967.6
57.5°	858.3	854.4	866.3	878.2	886.2	894.1	888.1	880.2	866.3	830.5	770.9
60°	653.7	653.7	661.6	669.6	677.5	685.5	683.5	681.5	669.6	645.7	598.1
62.5°	480.8	482.8	482.8	488.8	496.7	504.7	510.6	504.7	498.7	482.8	451.0
65°	343.7	341.7	343.7	349.7	355.7	363.6	367.6	365.6	359.6	347.7	323.9
67.5°	230.5	228.5	236.4	238.4	242.4	250.4	248.4	250.4	248.4	238.4	218.6
70°	151.0	147.0	151.0	149.0	155.0	157.0	160.9	162.9	160.9	155.0	149.0
72.5°	93.4	91.4	93.4	95.4	97.4	99.3	103.3	103.3	101.3	97.4	89.4
75°	59.6	53.6	55.6	51.7	55.6	55.6	59.6	61.6	59.6	59.6	55.6
77.5°	35.8	35.8	35.8	35.8	35.8	35.8	35.8	37.8	39.7	35.8	33.8
80°	17.9	17.9	19.9	19.9	19.9	21.9	19.9	19.9	19.9	21.9	15.9
82.5°	13.9	11.9	11.9	11.9	13.9	11.9	11.9	11.9	11.9	11.9	11.9
85°	6.0	7.9	6.0	4.0	6.0	6.0	7.9	6.0	6.0	6.0	7.9
87.5°	2.0	2.0	0.0	0.0	0.0	2.0	0.0	2.0	2.0	4.0	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: P248435

CATALOG NUMBER: LD8B70D010 ER8B70827 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3743.4	3743.4	3743.4	3743.4	3743.4	3743.4	3743.4	3743.4	3743.4	3743.4	3743.4
2.5°	3753.4	3749.4	3749.4	3747.4	3751.4	3747.4	3749.4	3747.4	3747.4	3751.4	3747.4
5°	3767.3	3769.3	3765.3	3763.3	3769.3	3769.3	3769.3	3765.3	3765.3	3767.3	3765.3
7.5°	3787.2	3791.1	3793.1	3795.1	3799.1	3801.1	3801.1	3799.1	3797.1	3803.1	3795.1
10°	3809.0	3815.0	3826.9	3832.9	3842.8	3842.8	3846.8	3846.8	3842.8	3846.8	3844.8
12.5°	3801.1	3836.8	3856.7	3870.6	3884.5	3896.4	3900.4	3902.4	3900.4	3908.4	3900.4
15°	3815.0	3844.8	3876.6	3900.4	3926.2	3940.1	3944.1	3960.0	3964.0	3966.0	3954.1
17.5°	3793.1	3846.8	3880.5	3916.3	3954.1	3979.9	4003.7	4013.7	4015.7	4019.6	4003.7
20°	3743.4	3803.1	3854.7	3906.4	3950.1	3989.8	4009.7	4037.5	4029.6	4045.5	4023.6
22.5°	3675.9	3743.4	3809.0	3876.6	3922.3	3970.0	4011.7	4031.5	4041.5	4041.5	4017.6
25°	3568.6	3648.1	3719.6	3789.1	3858.7	3916.3	3964.0	3993.8	3999.8	3997.8	3970.0
27.5°	3401.7	3487.1	3570.6	3650.1	3735.5	3803.1	3858.7	3894.4	3904.4	3904.4	3874.6
30°	3171.2	3262.6	3344.1	3439.4	3526.9	3602.4	3679.9	3711.7	3729.5	3729.5	3695.8
32.5°	2897.0	2974.5	3050.0	3143.4	3238.8	3324.2	3397.7	3441.4	3463.3	3461.3	3431.5
35°	2598.9	2636.7	2694.3	2763.9	2849.3	2928.8	3000.3	3042.0	3079.8	3077.8	3050.0
37.5°	2300.9	2291.0	2296.9	2322.8	2376.4	2432.0	2487.7	2527.4	2559.2	2573.1	2567.2
40°	2008.8	1957.1	1907.5	1889.6	1893.6	1913.4	1943.2	1973.0	2008.8	2026.7	2034.6
42.5°	1746.5	1659.1	1571.7	1506.1	1468.3	1456.4	1470.3	1480.3	1502.1	1528.0	1553.8
45°	1535.9	1418.7	1303.4	1202.1	1138.5	1100.8	1092.8	1100.8	1112.7	1138.5	1172.3
47.5°	1363.0	1225.9	1096.8	983.5	890.1	840.5	826.6	822.6	834.5	858.3	904.0
50°	1210.0	1072.9	929.9	798.7	701.4	645.7	625.9	617.9	631.8	649.7	691.4
52.5°	1043.1	908.0	761.0	633.8	532.5	474.9	453.0	441.1	449.0	472.9	514.6
55°	862.3	737.1	604.0	472.9	375.5	321.9	296.0	288.1	296.0	321.9	363.6
57.5°	681.5	576.2	464.9	341.7	254.3	200.7	174.8	166.9	188.8	198.7	242.4
60°	532.5	447.1	351.7	250.4	174.8	133.1	107.3	101.3	111.3	129.1	164.9
62.5°	399.4	345.7	270.2	178.8	129.1	85.4	71.5	65.6	71.5	85.4	113.3
65°	290.1	248.4	188.8	131.1	87.4	63.6	47.7	43.7	49.7	59.6	83.5
67.5°	198.7	166.9	131.1	91.4	59.6	39.7	33.8	33.8	35.8	43.7	61.6
70°	129.1	109.3	83.5	59.6	39.7	29.8	25.8	21.9	25.8	31.8	41.7
72.5°	81.5	69.5	53.6	41.7	29.8	21.9	17.9	15.9	19.9	23.8	31.8
75°	49.7	37.8	27.8	21.9	15.9	15.9	15.9	7.9	9.9	15.9	19.9
77.5°	29.8	25.8	21.9	17.9	13.9	7.9	7.9	7.9	9.9	11.9	17.9
80°	15.9	13.9	9.9	9.9	7.9	6.0	7.9	6.0	4.0	9.9	11.9
82.5°	9.9	7.9	7.9	7.9	9.9	4.0	6.0	4.0	6.0	7.9	6.0
85°	6.0	6.0	6.0	4.0	9.9	4.0	4.0	2.0	2.0	4.0	4.0
87.5°	0.0	2.0	2.0	0.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0
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°	3743.4	3743.4	3743.4	3743.4	3743.4	3743.4	3743.4	3743.4	3743.4	3743.4	3743.4
2.5°	3749.4	3747.4	3749.4	3747.4	3747.4	3747.4	3749.4	3749.4	3747.4	3747.4	3751.4
5°	3765.3	3765.3	3765.3	3763.3	3761.3	3761.3	3765.3	3765.3	3759.3	3765.3	3765.3
7.5°	3799.1	3793.1	3799.1	3791.1	3787.2	3789.1	3791.1	3787.2	3783.2	3785.2	3785.2
10°	3842.8	3836.8	3836.8	3830.9	3824.9	3820.9	3817.0	3807.0	3797.1	3795.1	3787.2
12.5°	3894.4	3884.5	3878.6	3866.6	3856.7	3842.8	3830.9	3815.0	3795.1	3781.2	3767.3
15°	3946.1	3930.2	3916.3	3896.4	3874.6	3850.7	3824.9	3799.1	3767.3	3739.5	3715.6
17.5°	3987.8	3966.0	3940.1	3908.4	3876.6	3840.8	3803.1	3765.3	3719.6	3683.8	3656.0
20°	4001.7	3970.0	3936.2	3894.4	3852.7	3803.1	3755.4	3705.7	3654.0	3616.3	3584.5
22.5°	3983.9	3946.1	3904.4	3860.7	3805.0	3751.4	3695.8	3638.1	3592.4	3540.8	3511.0
25°	3934.2	3888.5	3842.8	3791.1	3737.5	3677.9	3618.3	3558.7	3503.0	3475.2	3437.5
27.5°	3832.9	3783.2	3733.5	3679.9	3618.3	3558.7	3497.1	3439.4	3391.8	3354.0	3332.1
30°	3654.0	3596.4	3538.8	3481.2	3427.5	3365.9	3308.3	3260.6	3212.9	3183.1	3161.3
32.5°	3379.8	3328.2	3270.6	3214.9	3165.2	3113.6	3065.9	3024.2	2990.4	2970.5	2954.6
35°	3010.3	2958.6	2914.9	2875.1	2833.4	2811.6	2781.8	2757.9	2744.0	2736.0	2734.1
37.5°	2545.3	2515.5	2501.6	2493.6	2485.7	2479.7	2483.7	2493.6	2501.6	2515.5	2531.4
40°	2048.5	2074.4	2082.3	2110.1	2136.0	2169.8	2207.5	2251.2	2287.0	2332.7	2364.5
42.5°	1595.5	1643.2	1698.8	1758.4	1822.0	1883.6	1959.1	2028.7	2092.3	2149.9	2199.6
45°	1225.9	1299.5	1382.9	1468.3	1553.8	1643.2	1734.6	1820.0	1895.6	1957.1	2008.8
47.5°	955.7	1037.2	1144.5	1249.8	1353.1	1458.4	1559.7	1649.2	1712.7	1772.4	1818.1
50°	757.0	850.4	967.6	1088.8	1202.1	1313.4	1420.7	1504.1	1567.7	1615.4	1649.2
52.5°	586.1	697.4	816.6	943.8	1065.0	1186.2	1285.5	1363.0	1414.7	1456.4	1482.3
55°	437.1	546.4	673.6	804.7	927.9	1045.1	1138.5	1206.1	1251.8	1275.6	1289.5
57.5°	315.9	415.3	542.4	673.6	784.8	896.1	971.6	1033.2	1059.0	1072.9	1078.9
60°	230.5	321.9	435.1	548.4	653.7	743.1	808.7	850.4	870.3	878.2	876.2
62.5°	168.9	248.4	345.7	441.1	526.5	600.0	651.7	679.5	689.5	693.4	687.5
65°	129.1	190.7	274.2	347.7	413.3	466.9	504.7	522.6	528.5	526.5	522.6
67.5°	95.4	143.1	204.7	260.3	308.0	349.7	369.6	385.5	389.4	383.5	377.5
70°	67.6	105.3	149.0	186.8	222.5	246.4	268.2	270.2	270.2	268.2	264.3
72.5°	47.7	73.5	101.3	127.2	149.0	166.9	174.8	180.8	178.8	176.8	172.9
75°	31.8	45.7	73.5	79.5	99.3	105.3	113.3	113.3	115.2	109.3	109.3
77.5°	19.9	31.8	43.7	51.7	59.6	67.6	71.5	71.5	73.5	71.5	71.5
80°	11.9	19.9	23.8	35.8	35.8	41.7	43.7	45.7	41.7	47.7	41.7
82.5°	7.9	11.9	17.9	17.9	21.9	25.8	25.8	27.8	27.8	25.8	25.8
85°	6.0	7.9	9.9	11.9	11.9	13.9	11.9	11.9	13.9	15.9	13.9
87.5°	2.0	4.0	2.0	4.0	4.0	7.9	6.0	6.0	6.0	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: P248435

CATALOG NUMBER: LD8B70D010 ER8B70827 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3743.4	3743.4	3743.4	3743.4
2.5°	3747.4	3749.4	3747.4	3747.4
5°	3765.3	3763.3	3765.3	3761.3
7.5°	3779.2	3779.2	3777.2	3777.2
10°	3779.2	3771.3	3771.3	3771.3
12.5°	3749.4	3739.5	3733.5	3729.5
15°	3697.7	3679.9	3671.9	3669.9
17.5°	3630.2	3614.3	3604.4	3598.4
20°	3552.7	3536.8	3524.9	3526.9
22.5°	3485.1	3467.3	3459.3	3455.3
25°	3417.6	3395.7	3389.8	3385.8
27.5°	3308.3	3296.4	3290.4	3284.5
30°	3141.4	3135.4	3125.5	3139.4
32.5°	2948.7	2938.7	2930.8	2936.7
35°	2736.0	2730.1	2736.0	2732.1
37.5°	2541.3	2547.3	2555.2	2559.2
40°	2388.3	2410.2	2418.1	2422.1
42.5°	2235.3	2261.2	2277.1	2287.0
45°	2046.6	2072.4	2090.3	2102.2
47.5°	1851.8	1873.7	1891.6	1889.6
50°	1675.0	1686.9	1694.9	1702.8
52.5°	1496.2	1496.2	1498.2	1498.2
55°	1293.5	1289.5	1287.5	1289.5
57.5°	1070.9	1067.0	1065.0	1059.0
60°	868.3	856.4	848.4	848.4
62.5°	679.5	665.6	659.7	657.7
65°	510.6	508.6	496.7	494.7
67.5°	369.6	361.6	353.7	355.7
70°	260.3	248.4	248.4	244.4
72.5°	168.9	162.9	160.9	160.9
75°	105.3	105.3	101.3	109.3
77.5°	69.5	69.5	67.6	69.5
80°	41.7	41.7	41.7	39.7
82.5°	25.8	27.8	25.8	25.8
85°	13.9	15.9	11.9	17.9
87.5°	7.9	9.9	7.9	9.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)