

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: P249612

Luminaire Tested: **LD8B200D010 ER8B2009727 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B2009727 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15086.0 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

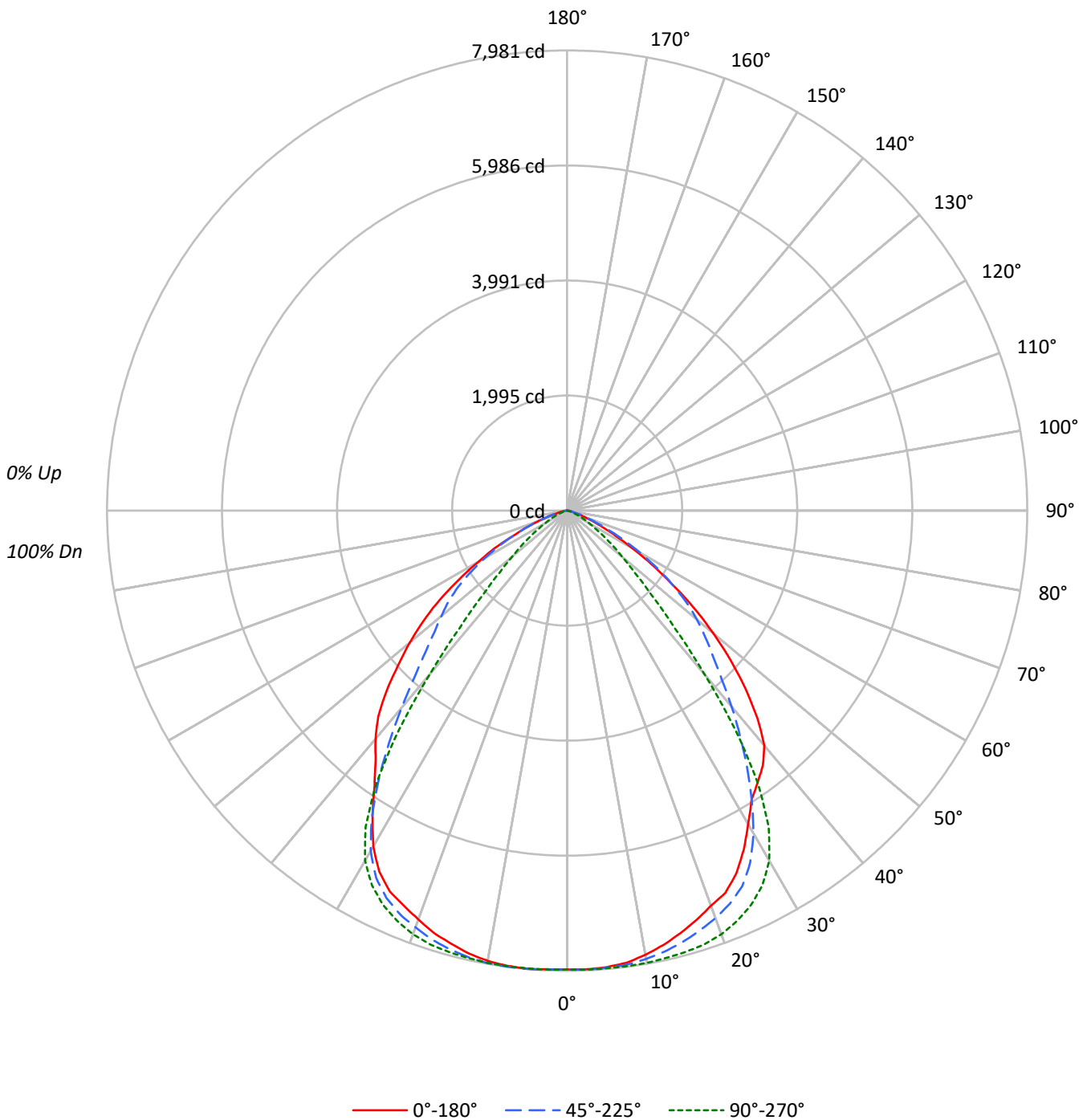
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
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°	759.6	5.0
10°-20°	2206.1	14.6
20°-30°	3348.4	22.2
30°-40°	3516.9	23.3
40°-50°	2636.7	17.5
50°-60°	1691.8	11.2
60°-70°	723.7	4.8
70°-80°	171.0	1.1
80°-90°	31.8	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°	6314.2	41.9
0°-40°	9831.0	65.2
0°-60°	14159.5	93.9
0°-90°	15086.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15086.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7960	7960	7960	7960	7960	
5°	7947	7960	7968	7981	7977	755
15°	7588	7746	7926	7874	7776	2140
25°	6943	7186	7550	7413	7285	3172
35°	5759	5439	5764	5695	5824	3615
45°	4375	3576	2055	3474	4435	3351
55°	2213	2213	765	2307	2696	2007
65°	667	786	244	1013	1030	712
75°	103	120	34	205	201	149
85°	34	21	17	34	47	36
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°	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7
2.5°	7964.0	7972.5	7968.2	7968.2	7964.0	7968.2	7968.2	7976.8	7976.8	7968.2	7964.0
5°	7946.8	7955.4	7955.4	7946.8	7946.8	7968.2	7955.4	7964.0	7964.0	7959.7	7959.7
7.5°	7908.4	7908.4	7925.5	7912.7	7912.7	7925.5	7921.2	7929.8	7938.3	7942.6	7942.6
10°	7822.9	7831.5	7835.8	7835.8	7840.1	7852.8	7861.4	7878.5	7887.0	7895.6	7899.9
12.5°	7716.2	7728.9	7733.2	7728.9	7741.8	7758.8	7780.3	7801.6	7814.5	7831.5	7844.4
15°	7587.9	7587.9	7596.5	7609.4	7617.9	7643.5	7664.9	7690.5	7724.7	7746.1	7767.4
17.5°	7447.0	7455.6	7468.3	7468.3	7485.5	7528.1	7541.0	7579.5	7617.9	7639.3	7682.0
20°	7293.2	7301.7	7314.5	7323.1	7344.4	7378.6	7404.2	7438.4	7481.2	7519.7	7562.3
22.5°	7173.5	7156.5	7164.9	7173.5	7194.9	7224.8	7254.7	7297.4	7340.2	7378.6	7421.4
25°	6942.8	6947.1	6959.9	6968.4	6994.1	7019.7	7053.9	7105.2	7143.6	7186.4	7233.3
27.5°	6630.9	6635.2	6656.6	6656.6	6677.9	6720.6	6742.0	6784.7	6836.1	6878.7	6934.3
30°	6276.3	6284.8	6284.8	6302.0	6314.7	6336.1	6357.5	6400.2	6425.8	6464.3	6541.3
32.5°	5951.6	5960.1	5955.8	5951.6	5938.8	5934.5	5930.2	5938.8	5947.4	5960.1	5990.0
35°	5759.4	5738.0	5720.9	5691.0	5656.8	5614.1	5575.6	5524.4	5477.3	5438.9	5396.2
37.5°	5575.6	5571.3	5545.7	5503.0	5434.6	5357.7	5268.0	5156.9	5045.8	4926.2	4810.9
40°	5319.3	5306.4	5285.1	5225.3	5148.3	5054.4	4934.8	4798.0	4618.5	4434.9	4246.9
42.5°	4883.4	4887.7	4862.1	4815.1	4742.5	4652.7	4528.8	4379.3	4187.1	3969.1	3725.6
45°	4375.1	4375.1	4366.5	4328.0	4276.8	4204.1	4110.1	3986.3	3798.3	3576.0	3315.4
47.5°	3845.2	3849.5	3836.7	3828.2	3806.8	3759.8	3691.5	3597.5	3465.0	3251.3	2990.7
50°	3307.0	3307.0	3328.3	3324.0	3324.0	3307.0	3277.1	3221.4	3106.1	2935.2	2691.7
52.5°	2768.6	2777.1	2790.0	2807.0	2828.4	2862.6	2828.4	2802.8	2730.1	2597.6	2388.3
55°	2213.1	2221.7	2243.0	2272.9	2298.7	2332.8	2341.3	2341.3	2302.8	2213.1	2055.1
57.5°	1738.9	1726.1	1743.2	1768.8	1803.0	1837.2	1862.8	1892.7	1888.4	1828.6	1700.5
60°	1307.4	1311.7	1324.4	1350.1	1375.8	1405.7	1439.8	1465.5	1478.3	1448.4	1367.2
62.5°	952.8	952.8	969.8	995.4	1008.3	1051.1	1072.4	1085.2	1098.0	1093.7	1042.5
65°	666.6	675.0	683.6	696.5	709.2	734.8	747.7	773.3	781.9	786.2	747.7
67.5°	470.0	457.2	465.7	474.2	487.1	504.2	529.8	529.8	542.6	542.6	517.0
70°	299.1	299.1	303.4	316.1	324.7	329.0	337.6	346.0	358.9	354.6	354.6
72.5°	200.8	196.5	200.8	205.1	209.4	222.2	222.2	226.4	235.0	239.3	222.2
75°	102.6	106.8	115.3	111.1	123.9	115.3	119.6	132.5	128.2	119.6	119.6
77.5°	85.4	85.4	85.4	81.2	89.7	89.7	85.4	94.0	89.7	89.7	85.4
80°	59.8	64.1	59.8	55.5	59.8	55.5	55.5	55.5	55.5	55.5	51.2
82.5°	47.0	38.5	42.8	38.5	42.8	42.8	38.5	34.2	34.2	38.5	34.2
85°	34.2	25.6	29.9	29.9	25.6	25.6	25.6	25.6	25.6	21.3	21.3
87.5°	21.3	12.9	12.9	12.9	17.0	17.0	17.0	12.9	17.0	17.0	8.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7
2.5°	7972.5	7968.2	7976.8	7972.5	7972.5	7968.2	7972.5	7968.2	7976.8	7959.7	7964.0
5°	7972.5	7964.0	7968.2	7972.5	7976.8	7968.2	7968.2	7968.2	7976.8	7968.2	7972.5
7.5°	7955.4	7951.1	7964.0	7972.5	7968.2	7964.0	7972.5	7968.2	7976.8	7972.5	7981.0
10°	7921.2	7925.5	7934.1	7946.8	7951.1	7955.4	7964.0	7964.0	7976.8	7959.7	7968.2
12.5°	7870.0	7887.0	7908.4	7916.9	7934.1	7934.1	7942.6	7946.8	7955.4	7951.1	7964.0
15°	7805.9	7827.2	7852.8	7874.3	7895.6	7908.4	7921.2	7925.5	7938.3	7925.5	7929.8
17.5°	7728.9	7754.6	7793.0	7818.6	7852.8	7865.7	7882.7	7891.3	7904.2	7895.6	7899.9
20°	7622.1	7652.1	7694.8	7733.2	7754.6	7784.5	7805.9	7818.6	7827.2	7818.6	7822.9
22.5°	7472.6	7515.4	7570.9	7600.8	7643.5	7669.1	7673.4	7703.3	7724.7	7703.3	7711.9
25°	7297.4	7340.2	7382.9	7447.0	7485.5	7515.4	7545.3	7549.6	7570.9	7566.6	7562.3
27.5°	7006.9	7062.5	7135.1	7186.4	7237.6	7284.6	7318.8	7327.3	7348.7	7340.2	7344.4
30°	6609.5	6669.4	6737.8	6818.9	6891.6	6938.5	6981.3	7011.2	7032.5	7019.7	7015.5
32.5°	6045.6	6105.4	6178.1	6259.2	6344.7	6413.0	6464.3	6502.8	6528.4	6519.8	6498.5
35°	5400.5	5417.5	5464.6	5528.7	5601.2	5673.9	5720.9	5763.6	5793.5	5802.0	5802.0
37.5°	4738.2	4682.7	4648.5	4648.5	4691.2	4721.1	4763.8	4789.5	4836.5	4853.5	4866.4
40°	4097.3	3969.1	3849.5	3759.8	3700.0	3695.7	3695.7	3708.5	3751.3	3806.8	3858.1
42.5°	3524.8	3319.7	3136.0	2969.4	2849.8	2781.4	2751.5	2755.8	2790.0	2841.2	2926.6
45°	3067.7	2811.3	2580.6	2379.8	2217.4	2110.6	2059.4	2055.1	2080.7	2140.5	2234.6
47.5°	2713.1	2439.6	2179.0	1948.2	1773.1	1657.7	1597.9	1580.9	1597.9	1653.4	1764.6
50°	2418.2	2136.3	1867.1	1627.8	1439.8	1320.2	1264.6	1243.3	1264.6	1311.7	1422.7
52.5°	2144.8	1854.2	1602.2	1371.5	1170.7	1068.1	1008.3	995.4	1008.3	1063.8	1153.6
55°	1828.6	1580.9	1333.0	1102.3	927.2	824.6	777.6	764.8	777.6	828.9	922.9
57.5°	1516.8	1303.1	1085.2	875.8	726.4	636.6	593.9	576.8	606.7	640.8	752.0
60°	1226.2	1055.3	871.6	687.9	564.0	482.8	448.6	444.3	452.9	495.6	572.5
62.5°	961.4	820.3	675.0	525.5	423.0	388.8	346.0	341.8	350.3	375.9	435.8
65°	692.2	602.5	491.3	384.5	303.4	256.3	239.3	243.6	252.1	269.2	324.7
67.5°	482.8	418.7	341.8	269.2	209.4	188.0	170.9	166.6	170.9	200.8	230.7
70°	324.7	286.2	230.7	205.1	145.3	115.3	119.6	106.8	123.9	123.9	149.5
72.5°	213.6	188.0	153.8	119.6	102.6	81.2	81.2	76.9	85.4	89.7	111.1
75°	111.1	85.4	85.4	59.8	42.8	21.3	38.5	34.2	29.9	34.2	42.8
77.5°	76.9	64.1	59.8	47.0	42.8	34.2	34.2	34.2	34.2	38.5	42.8
80°	47.0	47.0	34.2	29.9	25.6	21.3	25.6	25.6	25.6	25.6	29.9
82.5°	29.9	25.6	25.6	21.3	21.3	17.0	17.0	17.0	17.0	17.0	25.6
85°	25.6	17.0	17.0	12.9	17.0	29.9	12.9	17.0	17.0	17.0	12.9
87.5°	8.6	12.9	12.9	12.9	8.6	4.3	8.6	12.9	12.9	21.3	17.0
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°	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7
2.5°	7972.5	7976.8	7976.8	7972.5	7972.5	7964.0	7981.0	7968.2	7972.5	7989.6	7976.8
5°	7981.0	7985.3	7985.3	7981.0	7981.0	7981.0	7985.3	7985.3	7981.0	7976.8	7985.3
7.5°	7998.1	7993.9	7993.9	7985.3	7985.3	7976.8	7985.3	7972.5	7981.0	7972.5	7985.3
10°	7976.8	7981.0	7976.8	7972.5	7972.5	7968.2	7968.2	7955.4	7959.7	7946.8	7955.4
12.5°	7964.0	7959.7	7959.7	7951.1	7942.6	7934.1	7929.8	7916.9	7916.9	7887.0	7899.9
15°	7929.8	7934.1	7921.2	7904.2	7895.6	7874.3	7865.7	7848.5	7831.5	7810.2	7814.5
17.5°	7899.9	7887.0	7870.0	7852.8	7818.6	7801.6	7784.5	7758.8	7750.3	7724.7	7716.2
20°	7810.2	7801.6	7780.3	7750.3	7728.9	7690.5	7673.4	7647.8	7626.4	7600.8	7587.9
22.5°	7694.8	7686.2	7660.6	7630.7	7596.5	7579.5	7562.3	7515.4	7493.9	7468.3	7464.0
25°	7549.6	7536.7	7511.1	7476.9	7459.8	7412.8	7395.7	7361.5	7353.0	7327.3	7323.1
27.5°	7327.3	7310.3	7280.4	7237.6	7207.7	7177.8	7160.8	7135.1	7126.6	7100.9	7096.7
30°	6994.1	6972.7	6912.9	6895.9	6844.5	6814.6	6814.6	6780.4	6784.7	6767.7	6767.7
32.5°	6468.6	6434.4	6387.4	6353.2	6319.0	6302.0	6302.0	6289.1	6297.7	6297.7	6306.2
35°	5772.1	5725.2	5699.5	5678.2	5678.2	5695.2	5746.5	5759.4	5785.0	5806.3	5823.5
37.5°	4879.2	4875.0	4904.9	4930.5	4994.6	5067.2	5156.9	5233.9	5306.4	5357.7	5409.0
40°	3913.6	4020.4	4105.9	4225.6	4323.7	4464.8	4627.1	4759.6	4883.4	4973.2	5067.2
42.5°	3054.8	3191.5	3371.0	3546.1	3721.4	3913.6	4127.3	4311.0	4473.3	4597.2	4695.5
45°	2379.8	2567.7	2785.7	3007.9	3234.3	3473.6	3695.7	3883.7	4054.6	4182.8	4281.1
47.5°	1918.3	2123.4	2371.2	2614.8	2871.1	3123.2	3371.0	3533.4	3674.3	3776.9	3866.7
50°	1585.1	1803.0	2063.6	2341.3	2597.6	2849.8	3063.4	3221.4	3336.9	3426.6	3482.1
52.5°	1324.4	1555.2	1832.9	2110.6	2366.9	2597.6	2790.0	2909.6	3003.6	3067.7	3118.9
55°	1093.7	1316.0	1576.6	1837.2	2089.3	2307.1	2465.2	2555.0	2627.5	2666.0	2695.9
57.5°	893.0	1098.0	1337.3	1576.6	1794.5	1973.9	2097.8	2187.5	2221.7	2251.6	2247.3
60°	700.7	893.0	1110.9	1316.0	1503.9	1649.1	1738.9	1790.2	1815.8	1828.6	1820.1
62.5°	551.1	726.4	893.0	1072.4	1209.1	1333.0	1418.5	1418.5	1431.3	1435.6	1448.4
65°	410.1	542.6	687.9	820.3	931.4	1012.6	1059.6	1072.4	1089.5	1085.2	1076.7
67.5°	303.4	401.6	508.4	606.7	683.6	734.8	769.0	799.0	794.7	786.2	781.9
70°	209.4	273.5	367.5	427.3	482.8	534.1	542.6	546.9	551.1	555.4	546.9
72.5°	145.3	192.3	243.6	294.8	329.0	350.3	371.7	375.9	375.9	375.9	371.7
75°	72.7	98.3	145.3	166.6	196.5	205.1	222.2	222.2	235.0	217.9	213.6
77.5°	64.1	76.9	102.6	119.6	132.5	145.3	149.5	162.4	158.1	149.5	153.8
80°	38.5	47.0	64.1	72.7	89.7	94.0	98.3	102.6	98.3	102.6	102.6
82.5°	29.9	34.2	42.8	42.8	55.5	55.5	59.8	59.8	64.1	64.1	64.1
85°	17.0	29.9	25.6	51.2	34.2	34.2	42.8	51.2	42.8	42.8	51.2
87.5°	17.0	17.0	12.9	17.0	17.0	17.0	21.3	25.6	25.6	29.9	25.6
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: P249612

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7959.7	7959.7	7959.7	7959.7
2.5°	7972.5	7981.0	7968.2	7964.0
5°	7985.3	7985.3	7976.8	7976.8
7.5°	7985.3	7985.3	7972.5	7964.0
10°	7951.1	7951.1	7938.3	7929.8
12.5°	7887.0	7887.0	7882.7	7870.0
15°	7805.9	7805.9	7788.7	7776.0
17.5°	7694.8	7703.3	7682.0	7682.0
20°	7575.2	7570.9	7553.8	7545.3
22.5°	7451.3	7442.7	7438.4	7412.8
25°	7318.8	7310.3	7297.4	7284.6
27.5°	7092.4	7088.1	7075.3	7058.2
30°	6746.3	6742.0	6724.9	6724.9
32.5°	6297.7	6293.4	6276.3	6280.6
35°	5831.9	5849.1	5840.5	5823.5
37.5°	5443.2	5456.0	5464.6	5456.0
40°	5118.4	5156.9	5161.2	5169.8
42.5°	4772.4	4823.6	4840.8	4849.3
45°	4357.9	4405.0	4443.4	4434.9
47.5°	3934.9	3969.1	4003.3	3977.7
50°	3529.1	3550.4	3563.3	3563.3
52.5°	3144.6	3144.6	3140.3	3144.6
55°	2704.5	2704.5	2687.4	2695.9
57.5°	2243.0	2251.6	2238.8	2217.4
60°	1815.8	1794.5	1785.9	1773.1
62.5°	1414.2	1414.2	1384.3	1422.7
65°	1059.6	1046.8	1033.9	1029.6
67.5°	769.0	764.8	752.0	747.7
70°	542.6	525.5	521.2	512.7
72.5°	363.2	363.2	354.6	354.6
75°	222.2	200.8	196.5	200.8
77.5°	153.8	149.5	149.5	145.3
80°	102.6	98.3	106.8	94.0
82.5°	64.1	68.4	64.1	68.4
85°	42.8	51.2	47.0	47.0
87.5°	25.6	25.6	25.6	25.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)