

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: P248531

Luminaire Tested: **LD8B175D010 ER8B175927 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248531
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: LD8B175D010 ER8B175927 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14675.6 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

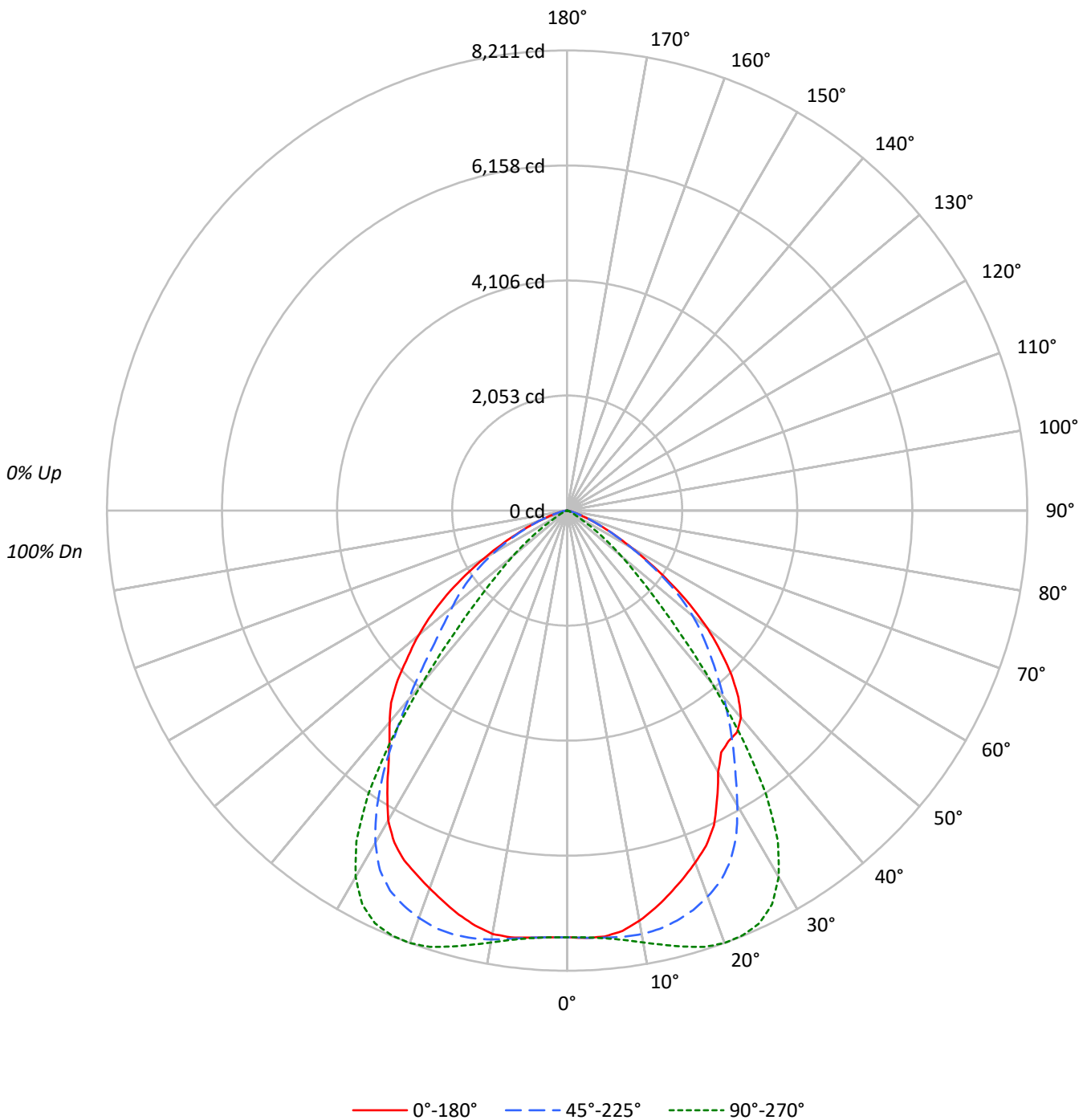
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248531

CATALOG NUMBER: LD8B175D010 ER8B175927 8LBDW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P248531

CATALOG NUMBER: LD8B175D010 ER8B175927 8LBDW0WH

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	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°	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°			



TEST NUMBER: P248531

CATALOG NUMBER: LD8B175D010 ER8B175927 8LBDW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	732.1	5.0
10°-20°	2168.9	14.8
20°-30°	3308.9	22.5
30°-40°	3452.9	23.5
40°-50°	2593.6	17.7
50°-60°	1595.8	10.9
60°-70°	649.4	4.4
70°-80°	153.0	1.0
80°-90°	21.0	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°	6209.9	42.3
0°-40°	9662.8	65.8
0°-60°	13852.1	94.4
0°-90°	14675.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14675.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7613	7613	7613	7613	7613	
5°	7629	7650	7658	7650	7650	722
15°	7076	7573	8054	7832	7464	1993
25°	6199	6894	8122	7480	6886	2818
35°	5023	5164	6187	5718	5556	3172
45°	4146	3588	2239	3342	4275	3163
55°	2239	2126	586	2126	2623	2012
65°	699	707	89	950	1006	729
75°	121	121	16	214	222	146
85°	12	12	4	28	36	17
90°	0	0	0	0	0	



TEST NUMBER: P248531

CATALOG NUMBER: LD8B175D010 ER8B175927 8LBDW0WH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	7613.2	7613.2	7613.2	7613.2	7613.2	7613.2	7613.2	7613.2	7613.2	7613.2	7613.2
2.5°	7633.5	7621.3	7633.5	7633.5	7637.5	7629.4	7633.5	7637.5	7629.4	7629.4	7629.4
5°	7629.4	7621.3	7629.4	7625.4	7633.5	7633.5	7641.6	7641.6	7649.6	7649.6	7661.7
7.5°	7564.7	7548.6	7564.7	7576.9	7584.9	7601.2	7621.3	7637.5	7653.6	7669.8	7690.0
10°	7431.4	7431.4	7443.6	7467.8	7491.9	7520.3	7556.6	7597.1	7637.5	7673.8	7710.2
12.5°	7265.7	7253.6	7277.8	7310.1	7346.5	7391.0	7447.6	7508.1	7572.8	7645.5	7702.2
15°	7075.8	7063.6	7091.9	7124.3	7168.7	7233.4	7302.2	7382.9	7475.8	7572.8	7665.8
17.5°	6881.8	6877.8	6906.0	6950.5	6986.9	7055.6	7144.5	7241.4	7346.5	7475.8	7597.1
20°	6683.8	6679.8	6708.0	6744.5	6792.9	6857.6	6946.4	7059.6	7184.8	7330.4	7471.8
22.5°	6477.8	6481.8	6506.0	6546.4	6586.9	6655.5	6748.4	6861.6	6999.0	7156.6	7314.2
25°	6198.9	6178.7	6211.0	6251.5	6320.1	6376.6	6465.6	6586.9	6728.3	6894.0	7079.8
27.5°	5794.8	5790.7	5819.1	5855.4	5916.0	5984.7	6081.8	6207.0	6356.5	6538.3	6720.2
30°	5390.7	5398.8	5410.9	5447.2	5487.6	5556.4	5653.3	5758.4	5899.8	6073.5	6267.6
32.5°	5115.8	5115.8	5132.1	5156.3	5184.6	5221.0	5289.8	5366.5	5475.6	5596.8	5738.2
35°	5022.9	5006.8	5022.9	5027.0	5031.0	5039.1	5051.2	5075.6	5111.8	5164.4	5217.0
37.5°	4982.6	4970.5	4970.5	4954.3	4934.0	4909.8	4877.4	4841.1	4800.7	4748.2	4707.8
40°	4825.0	4816.9	4808.8	4792.6	4748.2	4699.7	4647.2	4562.2	4469.3	4340.0	4210.8
42.5°	4521.9	4513.8	4509.8	4477.4	4437.0	4380.4	4319.8	4230.9	4113.8	3948.1	3762.1
45°	4146.1	4129.9	4117.8	4089.5	4061.1	4012.6	3956.2	3875.3	3758.1	3588.4	3366.1
47.5°	3709.7	3701.6	3697.5	3685.4	3657.2	3628.8	3592.5	3527.8	3422.7	3261.0	3030.8
50°	3269.1	3253.0	3261.0	3257.1	3245.0	3224.8	3200.4	3156.1	3075.2	2929.7	2719.6
52.5°	2764.0	2764.0	2760.1	2772.1	2776.2	2772.1	2776.2	2727.7	2658.9	2549.8	2372.1
55°	2238.6	2238.6	2250.8	2267.0	2283.2	2287.2	2283.2	2262.9	2214.5	2125.6	1968.0
57.5°	1745.7	1737.7	1761.9	1786.0	1802.4	1818.4	1806.3	1790.2	1761.9	1689.1	1567.9
60°	1329.5	1329.5	1345.6	1361.8	1377.9	1394.2	1390.0	1386.0	1361.8	1313.3	1216.4
62.5°	977.8	981.9	981.9	994.0	1010.2	1026.4	1038.5	1026.4	1014.3	981.9	917.3
65°	699.1	695.0	699.1	711.2	723.4	739.5	747.6	743.5	731.4	707.2	658.7
67.5°	468.8	464.7	480.8	484.9	493.0	509.2	505.1	509.2	505.1	484.9	444.6
70°	307.1	299.0	307.1	303.1	315.2	319.3	327.3	331.3	327.3	315.2	303.1
72.5°	189.9	185.8	189.9	194.0	198.0	202.0	210.2	210.2	206.1	198.0	181.8
75°	121.3	109.0	113.1	105.1	113.1	113.1	121.3	125.3	121.3	121.3	113.1
77.5°	72.8	72.8	72.8	72.8	72.8	72.8	72.8	76.8	80.8	72.8	68.7
80°	36.3	36.3	40.4	40.4	40.4	44.4	40.4	40.4	40.4	44.4	32.3
82.5°	28.2	24.2	24.2	24.2	28.2	24.2	24.2	24.2	24.2	24.2	24.2
85°	12.2	16.1	12.2	8.1	12.2	12.2	16.1	12.2	12.2	12.2	16.1
87.5°	4.0	4.0	0.0	0.0	0.0	4.0	0.0	4.0	4.0	8.1	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: P248531

CATALOG NUMBER: LD8B175D010 ER8B175927 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	7613.2	7613.2	7613.2	7613.2	7613.2	7613.2	7613.2	7613.2	7613.2	7613.2	7613.2
2.5°	7633.5	7625.4	7625.4	7621.3	7629.4	7621.3	7625.4	7621.3	7621.3	7629.4	7621.3
5°	7661.7	7665.8	7657.6	7653.6	7665.8	7665.8	7665.8	7657.6	7657.6	7661.7	7657.6
7.5°	7702.2	7710.2	7714.2	7718.3	7726.4	7730.4	7730.4	7726.4	7722.3	7734.5	7718.3
10°	7746.5	7758.8	7783.0	7795.1	7815.3	7815.3	7823.4	7823.4	7815.3	7823.4	7819.3
12.5°	7730.4	7803.1	7843.6	7871.8	7900.1	7924.4	7932.5	7936.5	7932.5	7948.7	7932.5
15°	7758.8	7819.3	7884.0	7932.5	7985.0	8013.3	8021.4	8053.6	8061.8	8065.8	8041.6
17.5°	7714.2	7823.4	7892.0	7964.8	8041.6	8094.2	8142.6	8162.9	8166.9	8174.9	8142.6
20°	7613.2	7734.5	7839.6	7944.6	8033.5	8114.3	8154.8	8211.3	8195.2	8227.5	8183.0
22.5°	7475.8	7613.2	7746.5	7884.0	7976.9	8074.0	8158.8	8199.1	8219.4	8219.4	8170.9
25°	7257.6	7419.3	7564.7	7706.1	7847.7	7964.8	8061.8	8122.4	8134.5	8130.5	8074.0
27.5°	6918.2	7091.9	7261.6	7423.3	7597.1	7734.5	7847.7	7920.3	7940.6	7940.6	7880.0
30°	6449.4	6635.4	6801.1	6994.9	7172.8	7326.3	7484.0	7548.6	7584.9	7584.9	7516.4
32.5°	5891.7	6049.3	6202.9	6392.8	6586.9	6760.6	6910.1	6999.0	7043.5	7039.5	6978.8
35°	5285.6	5362.4	5479.7	5621.1	5794.8	5956.4	6101.9	6186.8	6263.6	6259.5	6202.9
37.5°	4679.4	4659.3	4671.4	4723.9	4833.0	4946.2	5059.3	5140.2	5204.8	5233.2	5221.0
40°	4085.4	3980.4	3879.3	3843.0	3851.1	3891.5	3952.1	4012.6	4085.4	4121.9	4138.0
42.5°	3552.1	3374.2	3196.4	3063.2	2986.3	2962.0	2990.4	3010.5	3054.9	3107.5	3160.1
45°	3123.7	2885.3	2650.8	2444.8	2315.5	2238.6	2222.5	2238.6	2262.9	2315.5	2384.2
47.5°	2772.1	2493.2	2230.6	2000.2	1810.4	1709.3	1681.1	1673.0	1697.2	1745.7	1838.6
50°	2460.9	2182.2	1891.2	1624.5	1426.5	1313.3	1272.9	1256.7	1285.0	1321.4	1406.2
52.5°	2121.5	1846.7	1547.7	1289.0	1083.0	965.8	921.4	897.1	913.3	961.8	1046.6
55°	1753.8	1499.2	1228.4	961.8	763.8	654.6	602.1	585.9	602.1	654.6	739.5
57.5°	1386.0	1171.9	945.6	695.0	517.3	408.2	355.6	339.4	384.0	404.1	493.0
60°	1083.0	909.2	715.3	509.2	355.6	270.7	218.2	206.1	226.4	262.6	335.4
62.5°	812.2	703.1	549.6	363.7	262.6	173.7	145.5	133.4	145.5	173.7	230.4
65°	589.9	505.1	384.0	266.6	177.8	129.4	97.0	88.9	101.0	121.3	169.8
67.5°	404.1	339.4	266.6	185.8	121.3	80.8	68.7	68.7	72.8	88.9	125.3
70°	262.6	222.3	169.8	121.3	80.8	60.6	52.5	44.4	52.5	64.7	84.8
72.5°	165.7	141.4	109.0	84.8	60.6	44.4	36.3	32.3	40.4	48.5	64.7
75°	101.0	76.8	56.6	44.4	32.3	32.3	32.3	16.1	20.1	32.3	40.4
77.5°	60.6	52.5	44.4	36.3	28.2	16.1	16.1	16.1	20.1	24.2	36.3
80°	32.3	28.2	20.1	20.1	16.1	12.2	16.1	12.2	8.1	20.1	24.2
82.5°	20.1	16.1	16.1	16.1	20.1	8.1	12.2	8.1	12.2	16.1	12.2
85°	12.2	12.2	12.2	8.1	20.1	8.1	8.1	4.0	4.0	8.1	8.1
87.5°	0.0	4.0	4.0	0.0	4.0	0.0	4.0	4.0	4.0	4.0	4.0
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: P248531

CATALOG NUMBER: LD8B175D010 ER8B175927 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	7613.2	7613.2	7613.2	7613.2	7613.2	7613.2	7613.2	7613.2	7613.2	7613.2	7613.2
2.5°	7625.4	7621.3	7625.4	7621.3	7621.3	7621.3	7625.4	7625.4	7621.3	7621.3	7629.4
5°	7657.6	7657.6	7657.6	7653.6	7649.6	7649.6	7657.6	7657.6	7645.5	7657.6	7657.6
7.5°	7726.4	7714.2	7726.4	7710.2	7702.2	7706.1	7710.2	7702.2	7694.1	7698.2	7698.2
10°	7815.3	7803.1	7803.1	7791.1	7778.9	7770.8	7762.8	7742.5	7722.3	7718.3	7702.2
12.5°	7920.3	7900.1	7888.0	7863.8	7843.6	7815.3	7791.1	7758.8	7718.3	7690.0	7661.7
15°	8025.4	7993.1	7964.8	7924.4	7880.0	7831.5	7778.9	7726.4	7661.7	7605.2	7556.6
17.5°	8110.2	8065.8	8013.3	7948.7	7884.0	7811.2	7734.5	7657.6	7564.7	7491.9	7435.5
20°	8138.5	8074.0	8005.3	7920.3	7835.5	7734.5	7637.5	7536.5	7431.4	7354.7	7290.0
22.5°	8102.2	8025.4	7940.6	7851.7	7738.4	7629.4	7516.4	7399.0	7306.1	7201.1	7140.5
25°	8001.2	7908.2	7815.3	7710.2	7601.2	7479.9	7358.7	7237.5	7124.3	7067.7	6991.0
27.5°	7795.1	7694.1	7593.1	7484.0	7358.7	7237.5	7112.1	6994.9	6898.0	6821.2	6776.8
30°	7431.4	7314.2	7197.1	7079.8	6970.7	6845.4	6728.3	6631.2	6534.2	6473.7	6429.3
32.5°	6873.8	6768.7	6651.6	6538.3	6437.4	6332.3	6235.2	6150.4	6081.8	6041.2	6009.0
35°	6122.1	6017.1	5928.2	5847.4	5762.5	5718.0	5657.4	5608.9	5580.6	5564.5	5560.4
37.5°	5176.5	5115.8	5087.6	5071.5	5055.3	5043.2	5051.2	5071.5	5087.6	5115.8	5148.2
40°	4166.2	4218.8	4235.0	4291.5	4344.1	4412.8	4489.5	4578.5	4651.2	4744.1	4808.8
42.5°	3245.0	3341.9	3455.0	3576.3	3705.6	3830.8	3984.4	4125.8	4255.2	4372.3	4473.3
45°	2493.2	2642.7	2812.5	2986.3	3160.1	3341.9	3527.8	3701.6	3855.2	3980.4	4085.4
47.5°	1943.7	2109.4	2327.6	2541.8	2752.0	2966.1	3172.2	3354.0	3483.3	3604.5	3697.5
50°	1539.6	1729.6	1968.0	2214.5	2444.8	2671.1	2889.2	3059.0	3188.4	3285.3	3354.0
52.5°	1192.0	1418.4	1660.8	1919.5	2166.0	2412.5	2614.5	2772.1	2877.2	2962.0	3014.5
55°	889.0	1111.3	1369.9	1636.6	1887.2	2125.6	2315.5	2453.0	2545.9	2594.4	2622.6
57.5°	642.5	844.6	1103.2	1369.9	1596.1	1822.5	1976.1	2101.3	2153.8	2182.2	2194.3
60°	468.8	654.6	884.9	1115.3	1329.5	1511.3	1644.8	1729.6	1770.0	1786.0	1782.0
62.5°	343.5	505.1	703.1	897.1	1070.9	1220.3	1325.5	1382.0	1402.3	1410.3	1398.3
65°	262.6	387.9	557.7	707.2	840.6	949.6	1026.4	1062.8	1074.9	1070.9	1062.8
67.5°	194.0	291.0	416.2	529.4	626.4	711.2	751.6	784.0	792.0	780.0	767.8
70°	137.5	214.2	303.1	379.9	452.6	501.1	545.5	549.6	549.6	545.5	537.5
72.5°	97.0	149.5	206.1	258.6	303.1	339.4	355.6	367.8	363.7	359.7	351.6
75°	64.7	92.9	149.5	161.7	202.0	214.2	230.4	230.4	234.3	222.3	222.3
77.5°	40.4	64.7	88.9	105.1	121.3	137.5	145.5	145.5	149.5	145.5	145.5
80°	24.2	40.4	48.5	72.8	72.8	84.8	88.9	92.9	84.8	97.0	84.8
82.5°	16.1	24.2	36.3	36.3	44.4	52.5	52.5	56.6	56.6	52.5	52.5
85°	12.2	16.1	20.1	24.2	24.2	28.2	24.2	24.2	28.2	32.3	28.2
87.5°	4.0	8.1	4.0	8.1	8.1	16.1	12.2	12.2	12.2	16.1	16.1
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: P248531

CATALOG NUMBER: LD8B175D010 ER8B175927 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7613.2	7613.2	7613.2	7613.2
2.5°	7621.3	7625.4	7621.3	7621.3
5°	7657.6	7653.6	7657.6	7649.6
7.5°	7686.0	7686.0	7682.0	7682.0
10°	7686.0	7669.8	7669.8	7669.8
12.5°	7625.4	7605.2	7593.1	7584.9
15°	7520.3	7484.0	7467.8	7463.7
17.5°	7382.9	7350.5	7330.4	7318.2
20°	7225.3	7193.0	7168.7	7172.8
22.5°	7087.8	7051.6	7035.4	7027.2
25°	6950.5	6906.0	6894.0	6885.9
27.5°	6728.3	6704.0	6691.8	6679.8
30°	6388.8	6376.6	6356.5	6384.7
32.5°	5996.8	5976.6	5960.5	5972.6
35°	5564.5	5552.3	5564.5	5556.4
37.5°	5168.5	5180.5	5196.7	5204.8
40°	4857.3	4901.7	4917.9	4925.9
42.5°	4546.1	4598.7	4631.0	4651.2
45°	4162.2	4214.7	4251.2	4275.4
47.5°	3766.2	3810.7	3846.9	3843.0
50°	3406.6	3430.8	3446.9	3463.2
52.5°	3042.8	3042.8	3046.8	3046.8
55°	2630.7	2622.6	2618.5	2622.6
57.5°	2178.0	2170.0	2166.0	2153.8
60°	1765.9	1741.7	1725.5	1725.5
62.5°	1382.0	1353.7	1341.7	1337.6
65°	1038.5	1034.4	1010.2	1006.2
67.5°	751.6	735.4	719.3	723.4
70°	529.4	505.1	505.1	497.0
72.5°	343.5	331.3	327.3	327.3
75°	214.2	214.2	206.1	222.3
77.5°	141.4	141.4	137.5	141.4
80°	84.8	84.8	84.8	80.8
82.5°	52.5	56.6	52.5	52.5
85°	28.2	32.3	24.2	36.3
87.5°	16.1	20.1	16.1	20.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)