

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: P249188

Luminaire Tested: **LD8B175D010 ER8B175930 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249188
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: LD8B175D010 ER8B175930 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15352.1 lumens
Efficiency: N/A
Efficacy: 86.6 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

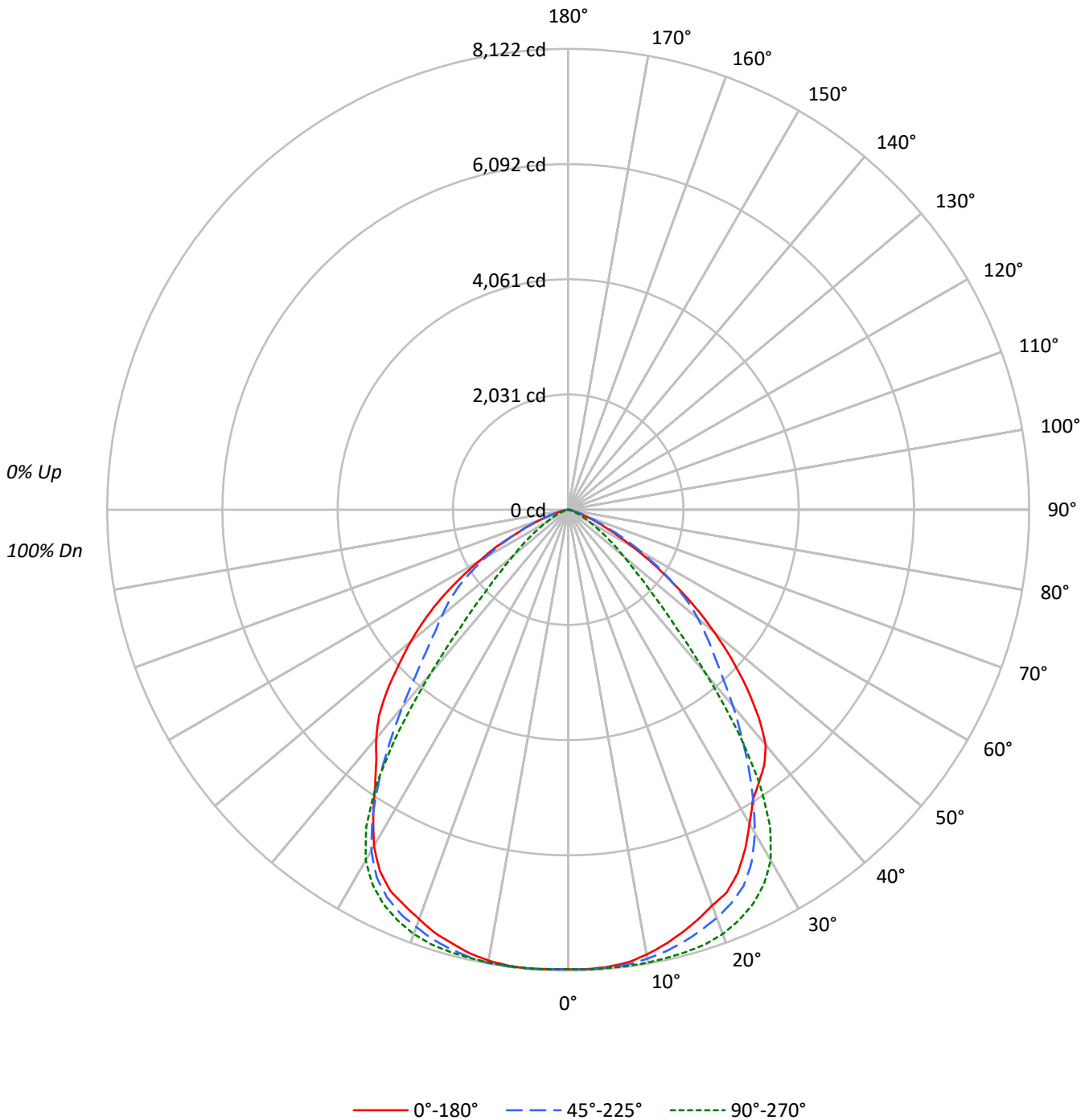
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	773.0	5.0
10°-20°	2245.0	14.6
20°-30°	3407.5	22.2
30°-40°	3578.9	23.3
40°-50°	2683.2	17.5
50°-60°	1721.6	11.2
60°-70°	736.5	4.8
70°-80°	174.0	1.1
80°-90°	32.4	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°	6425.5	41.9
0°-40°	10004.4	65.2
0°-60°	14409.3	93.9
0°-90°	15352.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15352.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8100	8100	8100	8100	8100	
5°	8087	8100	8109	8122	8118	768
15°	7722	7883	8065	8013	7913	2178
25°	7065	7313	7683	7544	7413	3228
35°	5861	5535	5865	5796	5926	3678
45°	4452	3639	2091	3535	4513	3410
55°	2252	2252	778	2348	2743	2043
65°	678	800	248	1030	1048	724
75°	104	122	35	209	204	152
85°	35	22	17	35	48	37
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°	8100.1	8100.1	8100.1	8100.1	8100.1	8100.1	8100.1	8100.1	8100.1	8100.1	8100.1
2.5°	8104.4	8113.1	8108.8	8108.8	8104.4	8108.8	8108.8	8117.5	8117.5	8108.8	8104.4
5°	8087.0	8095.7	8095.7	8087.0	8087.0	8108.8	8095.7	8104.4	8104.4	8100.1	8100.1
7.5°	8047.9	8047.9	8065.3	8052.3	8052.3	8065.3	8060.9	8069.6	8078.4	8082.7	8082.7
10°	7960.9	7969.6	7974.0	7974.0	7978.4	7991.4	8000.0	8017.5	8026.1	8034.9	8039.3
12.5°	7852.3	7865.3	7869.6	7865.3	7878.4	7895.7	7917.5	7939.3	7952.3	7969.6	7982.8
15°	7721.8	7721.8	7730.5	7743.5	7752.3	7778.4	7800.0	7826.1	7860.9	7882.8	7904.4
17.5°	7578.4	7587.0	7600.0	7600.0	7617.5	7660.9	7674.0	7713.2	7752.3	7774.0	7817.5
20°	7421.8	7430.4	7443.6	7452.3	7474.0	7508.8	7534.8	7569.7	7613.2	7652.3	7695.7
22.5°	7300.1	7282.7	7291.3	7300.1	7321.8	7352.3	7382.7	7426.1	7469.7	7508.8	7552.3
25°	7065.2	7069.6	7082.7	7091.3	7117.5	7143.6	7178.3	7230.4	7269.6	7313.2	7360.9
27.5°	6747.9	6752.2	6774.0	6774.0	6795.7	6839.2	6860.9	6904.4	6956.6	7000.1	7056.6
30°	6387.0	6395.6	6395.6	6413.1	6426.1	6447.9	6469.6	6513.1	6539.1	6578.4	6656.6
32.5°	6056.7	6065.3	6060.9	6056.7	6043.5	6039.2	6034.8	6043.5	6052.3	6065.3	6095.7
35°	5860.9	5839.2	5821.8	5791.4	5756.6	5713.1	5673.9	5621.8	5573.9	5534.8	5491.4
37.5°	5673.9	5669.6	5643.6	5600.1	5530.5	5452.2	5361.0	5247.8	5134.7	5013.1	4895.7
40°	5413.1	5400.0	5378.3	5317.5	5239.1	5143.5	5021.9	4882.6	4700.0	4513.0	4321.8
42.5°	4969.6	4974.0	4947.9	4900.0	4826.1	4734.8	4608.8	4456.5	4260.9	4039.1	3791.3
45°	4452.3	4452.3	4443.5	4404.3	4352.2	4278.3	4182.7	4056.6	3865.3	3639.1	3373.9
47.5°	3913.1	3917.4	3904.3	3895.7	3874.0	3826.2	3756.6	3661.0	3526.1	3308.7	3043.5
50°	3365.2	3365.2	3387.0	3382.6	3382.6	3365.2	3334.9	3278.3	3160.9	2987.0	2739.2
52.5°	2817.4	2826.2	2839.2	2856.5	2878.3	2913.0	2878.3	2852.2	2778.3	2643.4	2430.4
55°	2252.2	2260.9	2282.6	2313.1	2339.2	2373.9	2382.6	2382.6	2343.5	2252.2	2091.3
57.5°	1769.6	1756.5	1774.0	1800.0	1834.9	1869.6	1895.7	1926.1	1921.7	1860.9	1730.5
60°	1330.4	1334.8	1347.8	1374.0	1400.0	1430.5	1465.3	1491.3	1504.4	1474.0	1391.3
62.5°	969.6	969.6	986.9	1013.0	1026.1	1069.5	1091.3	1104.4	1117.4	1113.0	1060.9
65°	678.3	686.9	695.7	708.7	721.7	747.8	760.8	786.9	795.7	800.1	760.8
67.5°	478.3	465.2	474.0	482.6	495.6	513.1	539.2	539.2	552.1	552.1	526.1
70°	304.4	304.4	308.7	321.7	330.5	334.8	343.5	352.1	365.2	360.8	360.8
72.5°	204.4	200.0	204.4	208.7	213.1	226.1	226.1	230.5	239.1	243.5	226.1
75°	104.4	108.7	117.4	113.1	126.1	117.4	121.7	134.7	130.5	121.7	121.7
77.5°	86.9	86.9	86.9	82.6	91.2	91.2	86.9	95.6	91.2	91.2	86.9
80°	60.9	65.2	60.9	56.5	60.9	56.5	56.5	56.5	56.5	56.5	52.1
82.5°	47.9	39.1	43.5	39.1	43.5	43.5	39.1	34.8	34.8	39.1	34.8
85°	34.8	26.1	30.4	30.4	26.1	26.1	26.1	26.1	26.1	21.7	21.7
87.5°	21.7	13.1	13.1	13.1	17.4	17.4	17.4	13.1	17.4	17.4	8.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8100.1	8100.1	8100.1	8100.1	8100.1	8100.1	8100.1	8100.1	8100.1	8100.1	8100.1
2.5°	8113.1	8108.8	8117.5	8113.1	8113.1	8108.8	8113.1	8108.8	8117.5	8100.1	8104.4
5°	8113.1	8104.4	8108.8	8113.1	8117.5	8108.8	8108.8	8108.8	8117.5	8108.8	8113.1
7.5°	8095.7	8091.4	8104.4	8113.1	8108.8	8104.4	8113.1	8108.8	8117.5	8113.1	8121.8
10°	8060.9	8065.3	8074.0	8087.0	8091.4	8095.7	8104.4	8104.4	8117.5	8100.1	8108.8
12.5°	8008.8	8026.1	8047.9	8056.5	8074.0	8074.0	8082.7	8087.0	8095.7	8091.4	8104.4
15°	7943.5	7965.3	7991.4	8013.1	8034.9	8047.9	8060.9	8065.3	8078.4	8065.3	8069.6
17.5°	7865.3	7891.4	7930.5	7956.5	7991.4	8004.4	8021.8	8030.5	8043.6	8034.9	8039.3
20°	7756.5	7787.0	7830.5	7869.6	7891.4	7921.8	7943.5	7956.5	7965.3	7956.5	7960.9
22.5°	7604.4	7647.9	7704.4	7734.9	7778.4	7804.4	7808.8	7839.3	7860.9	7839.3	7847.9
25°	7426.1	7469.7	7513.2	7578.4	7617.5	7647.9	7678.4	7682.7	7704.4	7700.0	7695.7
27.5°	7130.5	7187.1	7260.9	7313.2	7365.3	7413.2	7447.9	7456.6	7478.3	7469.7	7474.0
30°	6726.1	6787.1	6856.6	6939.2	7013.1	7060.8	7104.4	7134.8	7156.6	7143.6	7139.2
32.5°	6152.3	6213.1	6287.0	6369.6	6456.6	6526.1	6578.4	6617.5	6643.5	6634.9	6613.1
35°	5495.7	5513.1	5560.9	5626.2	5700.1	5773.9	5821.8	5865.2	5895.7	5904.4	5904.4
37.5°	4821.8	4765.3	4730.5	4730.5	4773.9	4804.4	4847.9	4873.9	4921.8	4939.1	4952.2
40°	4169.6	4039.1	3917.4	3826.2	3765.3	3761.0	3761.0	3774.0	3817.5	3874.0	3926.2
42.5°	3587.0	3378.2	3191.4	3021.8	2900.0	2830.5	2800.0	2804.4	2839.2	2891.3	2978.3
45°	3121.8	2860.9	2626.2	2421.8	2256.6	2147.8	2095.7	2091.3	2117.3	2178.2	2273.9
47.5°	2760.9	2482.6	2217.3	1982.6	1804.4	1687.0	1626.1	1608.7	1626.1	1682.6	1795.7
50°	2460.9	2174.0	1900.1	1656.5	1465.3	1343.5	1286.9	1265.3	1286.9	1334.8	1447.8
52.5°	2182.6	1887.0	1630.5	1395.6	1191.3	1086.9	1026.1	1013.0	1026.1	1082.5	1173.9
55°	1860.9	1608.7	1356.5	1121.7	943.5	839.2	791.3	778.3	791.3	843.6	939.2
57.5°	1543.5	1326.1	1104.4	891.3	739.2	647.8	604.3	587.0	617.3	652.2	765.2
60°	1247.8	1073.9	886.9	700.1	574.0	491.3	456.5	452.1	460.8	504.3	582.6
62.5°	978.3	834.8	686.9	534.8	430.5	395.6	352.1	347.8	356.5	382.6	443.5
65°	704.3	613.1	500.0	391.3	308.7	260.9	243.5	247.9	256.5	274.0	330.5
67.5°	491.3	426.1	347.8	274.0	213.1	191.2	174.0	169.6	174.0	204.4	234.7
70°	330.5	291.2	234.7	208.7	147.9	117.4	121.7	108.7	126.1	126.1	152.1
72.5°	217.4	191.2	156.5	121.7	104.4	82.6	82.6	78.2	86.9	91.2	113.1
75°	113.1	86.9	86.9	60.9	43.5	21.7	39.1	34.8	30.4	34.8	43.5
77.5°	78.2	65.2	60.9	47.9	43.5	34.8	34.8	34.8	34.8	39.1	43.5
80°	47.9	47.9	34.8	30.4	26.1	21.7	26.1	26.1	26.1	26.1	30.4
82.5°	30.4	26.1	26.1	21.7	21.7	17.4	17.4	17.4	17.4	17.4	26.1
85°	26.1	17.4	17.4	13.1	17.4	30.4	13.1	17.4	17.4	17.4	13.1
87.5°	8.7	13.1	13.1	13.1	8.7	4.4	8.7	13.1	13.1	21.7	17.4
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°	8100.1	8100.1	8100.1	8100.1	8100.1	8100.1	8100.1	8100.1	8100.1	8100.1	8100.1
2.5°	8113.1	8117.5	8117.5	8113.1	8113.1	8104.4	8121.8	8108.8	8113.1	8130.5	8117.5
5°	8121.8	8126.1	8126.1	8121.8	8121.8	8121.8	8126.1	8126.1	8121.8	8117.5	8126.1
7.5°	8139.2	8134.9	8134.9	8126.1	8126.1	8117.5	8126.1	8113.1	8121.8	8113.1	8126.1
10°	8117.5	8121.8	8117.5	8113.1	8113.1	8108.8	8108.8	8095.7	8100.1	8087.0	8095.7
12.5°	8104.4	8100.1	8100.1	8091.4	8082.7	8074.0	8069.6	8056.5	8056.5	8026.1	8039.3
15°	8069.6	8074.0	8060.9	8043.6	8034.9	8013.1	8004.4	7987.0	7969.6	7947.9	7952.3
17.5°	8039.3	8026.1	8008.8	7991.4	7956.5	7939.3	7921.8	7895.7	7887.0	7860.9	7852.3
20°	7947.9	7939.3	7917.5	7887.0	7865.3	7826.1	7808.8	7782.8	7760.9	7734.9	7721.8
22.5°	7830.5	7821.8	7795.7	7765.3	7730.5	7713.2	7695.7	7647.9	7626.2	7600.0	7595.7
25°	7682.7	7669.7	7643.5	7608.8	7591.3	7543.5	7526.2	7491.3	7482.7	7456.6	7452.3
27.5°	7456.6	7439.2	7408.8	7365.3	7334.8	7304.4	7287.1	7260.9	7252.3	7226.1	7221.8
30°	7117.5	7095.7	7034.8	7017.5	6965.2	6934.8	6934.8	6900.1	6904.4	6887.1	6887.1
32.5°	6582.7	6547.9	6500.0	6465.3	6430.5	6413.1	6413.1	6400.0	6408.8	6408.8	6417.5
35°	5873.9	5826.2	5800.1	5778.3	5778.3	5795.7	5847.9	5860.9	5887.0	5908.8	5926.2
37.5°	4965.2	4961.0	4991.4	5017.5	5082.6	5156.6	5247.8	5326.2	5400.0	5452.2	5504.3
40°	3982.7	4091.3	4178.3	4300.0	4400.0	4543.5	4708.8	4843.5	4969.6	5061.0	5156.6
42.5°	3108.6	3247.9	3430.5	3608.7	3787.0	3982.7	4200.1	4387.0	4552.3	4678.3	4778.3
45°	2421.8	2613.1	2834.9	3060.9	3291.4	3534.8	3761.0	3952.2	4126.2	4256.5	4356.5
47.5°	1952.2	2161.0	2413.1	2660.9	2921.8	3178.3	3430.5	3595.7	3739.1	3843.5	3934.8
50°	1613.0	1834.9	2100.1	2382.6	2643.4	2900.0	3117.4	3278.3	3395.7	3487.0	3543.5
52.5°	1347.8	1582.6	1865.2	2147.8	2408.7	2643.4	2839.2	2960.9	3056.5	3121.8	3173.9
55°	1113.0	1339.1	1604.4	1869.6	2126.1	2347.8	2508.7	2600.0	2673.9	2713.0	2743.4
57.5°	908.8	1117.4	1360.9	1604.4	1826.1	2008.7	2134.8	2226.1	2260.9	2291.3	2287.0
60°	713.1	908.8	1130.4	1339.1	1530.5	1678.2	1769.6	1821.7	1847.9	1860.9	1852.1
62.5°	560.8	739.2	908.8	1091.3	1230.4	1356.5	1443.5	1443.5	1456.5	1460.9	1474.0
65°	417.3	552.1	700.1	834.8	947.8	1030.4	1078.3	1091.3	1108.8	1104.4	1095.7
67.5°	308.7	408.7	517.3	617.3	695.7	747.8	782.6	813.1	808.7	800.1	795.7
70°	213.1	278.3	374.0	434.8	491.3	543.6	552.1	556.5	560.8	565.2	556.5
72.5°	147.9	195.6	247.9	300.0	334.8	356.5	378.3	382.6	382.6	382.6	378.3
75°	74.0	100.0	147.9	169.6	200.0	208.7	226.1	226.1	239.1	221.7	217.4
77.5°	65.2	78.2	104.4	121.7	134.7	147.9	152.1	165.2	160.9	152.1	156.5
80°	39.1	47.9	65.2	74.0	91.2	95.6	100.0	104.4	100.0	104.4	104.4
82.5°	30.4	34.8	43.5	43.5	56.5	56.5	60.9	60.9	65.2	65.2	65.2
85°	17.4	30.4	26.1	52.1	34.8	34.8	43.5	52.1	43.5	43.5	52.1
87.5°	17.4	17.4	13.1	17.4	17.4	17.4	21.7	26.1	26.1	30.4	26.1
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: P249188

CATALOG NUMBER: LD8B175D010 ER8B175930 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8100.1	8100.1	8100.1	8100.1
2.5°	8113.1	8121.8	8108.8	8104.4
5°	8126.1	8126.1	8117.5	8117.5
7.5°	8126.1	8126.1	8113.1	8104.4
10°	8091.4	8091.4	8078.4	8069.6
12.5°	8026.1	8026.1	8021.8	8008.8
15°	7943.5	7943.5	7926.1	7913.1
17.5°	7830.5	7839.3	7817.5	7817.5
20°	7708.8	7704.4	7687.0	7678.4
22.5°	7582.7	7574.0	7569.7	7543.5
25°	7447.9	7439.2	7426.1	7413.2
27.5°	7217.4	7213.2	7200.1	7182.7
30°	6865.2	6860.9	6843.6	6843.6
32.5°	6408.8	6404.4	6387.0	6391.4
35°	5934.8	5952.3	5943.5	5926.2
37.5°	5539.2	5552.2	5560.9	5552.2
40°	5208.7	5247.8	5252.2	5261.0
42.5°	4856.6	4908.7	4926.1	4934.8
45°	4434.8	4482.7	4521.8	4513.0
47.5°	4004.3	4039.1	4073.9	4047.8
50°	3591.3	3613.1	3626.1	3626.1
52.5°	3200.1	3200.1	3195.7	3200.1
55°	2752.2	2752.2	2734.8	2743.4
57.5°	2282.6	2291.3	2278.2	2256.6
60°	1847.9	1826.1	1817.4	1804.4
62.5°	1439.1	1439.1	1408.8	1447.8
65°	1078.3	1065.3	1052.2	1047.8
67.5°	782.6	778.3	765.2	760.8
70°	552.1	534.8	530.5	521.7
72.5°	369.6	369.6	360.8	360.8
75°	226.1	204.4	200.0	204.4
77.5°	156.5	152.1	152.1	147.9
80°	104.4	100.0	108.7	95.6
82.5°	65.2	69.6	65.2	69.6
85°	43.5	52.1	47.9	47.9
87.5°	26.1	26.1	26.1	26.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)