

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: P249152

Luminaire Tested: **LD8B175D010 ER8B175935 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249152
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 ER8B175935 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15853.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

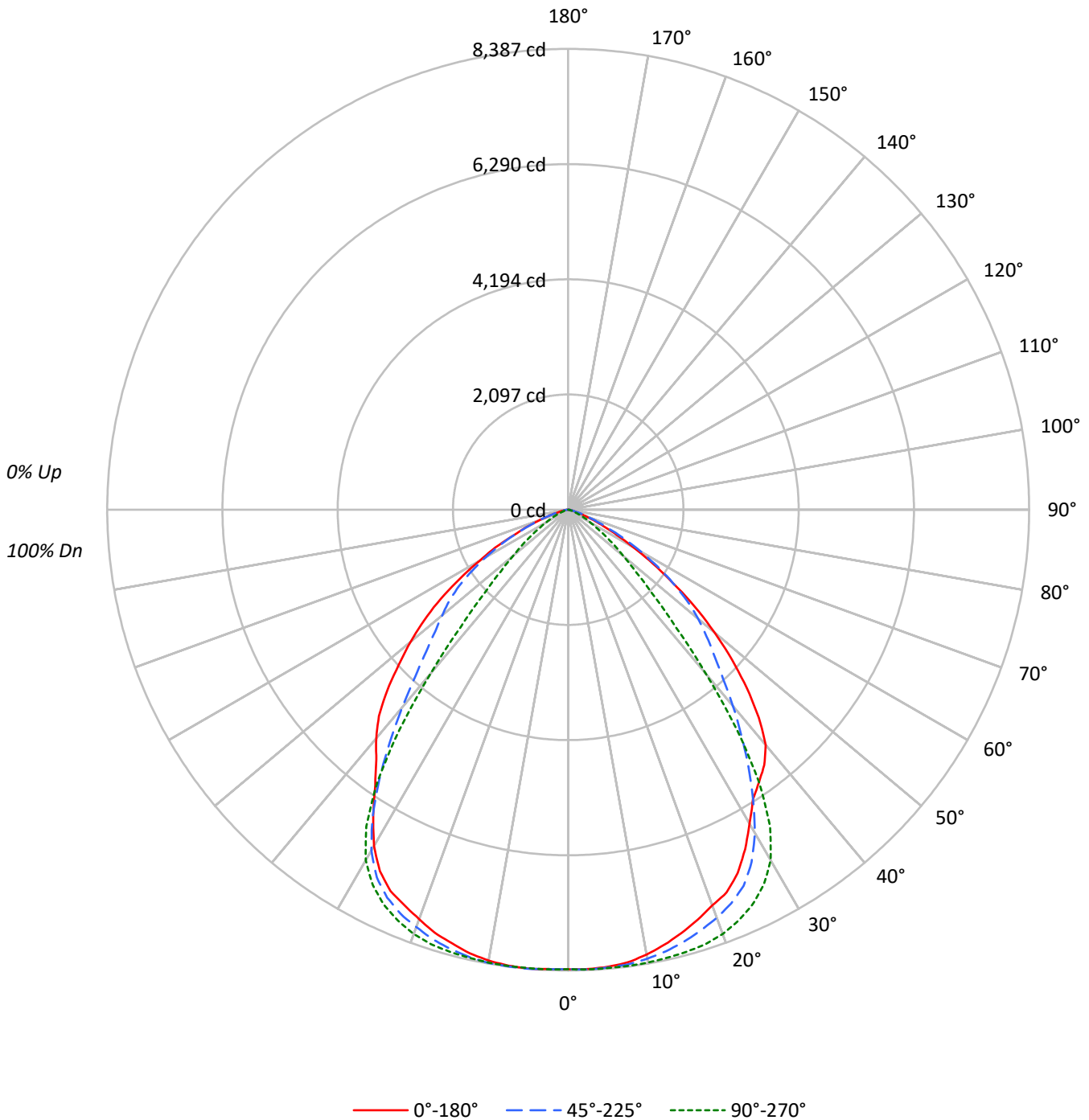
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	257927	257927	257927
5°	258492	259191	259470
10°	257407	262047	260920
15°	254553	265877	260861
20°	251497	269617	260189
25°	248233	269927	260455
30°	234840	262336	251625
35°	227830	227996	230364
40°	225008	156870	218684
45°	200493	94178	203232
50°	166710	62676	179634
55°	125033	43208	152306
60°	84732	28795	114915
65°	51105	18679	78948
70°	28337	10125	48569
75°	12844	4277	25139
80°	11152	4777	17545
85°	12702	6333	17478



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.3	5.0
10°-20°	2318.3	14.6
20°-30°	3518.7	22.2
30°-40°	3695.7	23.3
40°-50°	2770.8	17.5
50°-60°	1777.8	11.2
60°-70°	760.5	4.8
70°-80°	179.7	1.1
80°-90°	33.4	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°	6635.2	41.9
0°-40°	10330.9	65.2
0°-60°	14879.4	93.9
0°-90°	15853.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15853.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8364	8364	8364	8364	8364	
5°	8351	8364	8373	8387	8382	793
15°	7974	8140	8328	8275	8171	2249
25°	7296	7552	7933	7790	7655	3333
35°	6052	5715	6057	5985	6120	3798
45°	4598	3758	2160	3650	4660	3521
55°	2326	2326	804	2424	2833	2110
65°	700	826	256	1064	1082	748
75°	108	126	36	216	211	157
85°	36	22	18	36	49	38
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°	8364.4	8364.4	8364.4	8364.4	8364.4	8364.4	8364.4	8364.4	8364.4	8364.4	8364.4
2.5°	8368.9	8377.9	8373.4	8373.4	8368.9	8373.4	8373.4	8382.4	8382.4	8373.4	8368.9
5°	8350.8	8359.9	8359.9	8350.8	8350.8	8373.4	8359.9	8368.9	8368.9	8364.4	8364.4
7.5°	8310.5	8310.5	8328.4	8315.0	8315.0	8328.4	8323.9	8332.9	8341.9	8346.4	8346.4
10°	8220.7	8229.7	8234.2	8234.2	8238.7	8252.1	8261.1	8279.1	8288.0	8297.0	8301.5
12.5°	8108.5	8121.9	8126.4	8121.9	8135.4	8153.3	8175.8	8198.3	8211.8	8229.7	8243.2
15°	7973.7	7973.7	7982.7	7996.2	8005.2	8032.1	8054.6	8081.5	8117.4	8139.9	8162.3
17.5°	7825.6	7834.6	7848.0	7848.0	7866.0	7910.9	7924.4	7964.8	8005.2	8027.6	8072.6
20°	7664.0	7672.9	7686.4	7695.4	7717.8	7753.8	7780.7	7816.6	7861.5	7902.0	7946.8
22.5°	7538.2	7520.3	7529.2	7538.2	7560.8	7592.2	7623.6	7668.4	7713.3	7753.8	7798.7
25°	7295.8	7300.3	7313.8	7322.7	7349.7	7376.6	7412.6	7466.4	7506.8	7551.7	7601.1
27.5°	6968.1	6972.6	6995.0	6995.0	7017.4	7062.3	7084.7	7129.7	7183.6	7228.4	7286.9
30°	6595.4	6604.3	6604.3	6622.4	6635.8	6658.3	6680.7	6725.6	6752.5	6793.0	6873.8
32.5°	6254.2	6263.1	6258.6	6254.2	6240.7	6236.2	6231.7	6240.7	6249.7	6263.1	6294.6
35°	6052.2	6029.7	6011.8	5980.4	5944.4	5899.5	5859.1	5805.2	5755.8	5715.4	5670.6
37.5°	5859.1	5854.6	5827.7	5782.7	5710.9	5630.1	5535.9	5419.1	5302.3	5176.7	5055.5
40°	5589.7	5576.2	5553.8	5491.0	5410.1	5311.3	5185.7	5042.0	4853.3	4660.3	4462.8
42.5°	5131.7	5136.2	5109.3	5059.9	4983.6	4889.3	4759.1	4602.0	4400.0	4170.9	3915.1
45°	4597.5	4597.5	4588.5	4548.1	4494.2	4417.9	4319.1	4188.9	3991.4	3757.9	3484.0
47.5°	4040.7	4045.2	4031.7	4022.8	4000.3	3951.0	3879.1	3780.4	3641.2	3416.6	3142.8
50°	3475.1	3475.1	3497.5	3493.0	3493.0	3475.1	3443.7	3385.2	3264.1	3084.4	2828.6
52.5°	2909.3	2918.3	2931.8	2949.8	2972.2	3008.1	2972.2	2945.2	2868.9	2729.7	2509.8
55°	2325.7	2334.7	2357.1	2388.5	2415.5	2451.4	2460.3	2460.3	2419.9	2325.7	2159.6
57.5°	1827.3	1813.8	1831.9	1858.8	1894.7	1930.6	1957.5	1988.9	1984.4	1921.6	1786.9
60°	1373.9	1378.4	1391.8	1418.8	1445.7	1477.1	1513.1	1540.0	1553.5	1522.1	1436.7
62.5°	1001.2	1001.2	1019.1	1046.1	1059.6	1104.5	1126.9	1140.4	1153.8	1149.3	1095.5
65°	700.4	709.3	718.4	731.9	745.3	772.2	785.7	812.6	821.6	826.1	785.7
67.5°	493.9	480.4	489.4	498.3	511.8	529.8	556.8	556.8	570.2	570.2	543.2
70°	314.3	314.3	318.8	332.2	341.2	345.7	354.7	363.6	377.1	372.6	372.6
72.5°	211.0	206.5	211.0	215.5	220.0	233.4	233.4	237.9	247.0	251.5	233.4
75°	107.8	112.3	121.2	116.8	130.2	121.2	125.7	139.2	134.7	125.7	125.7
77.5°	89.8	89.8	89.8	85.4	94.3	94.3	89.8	98.8	94.3	94.3	89.8
80°	62.8	67.3	62.8	58.3	62.8	58.3	58.3	58.3	58.3	58.3	53.8
82.5°	49.4	40.4	44.9	40.4	44.9	44.9	40.4	35.9	35.9	40.4	35.9
85°	35.9	26.9	31.4	31.4	26.9	26.9	26.9	26.9	26.9	22.4	22.4
87.5°	22.4	13.5	13.5	13.5	17.9	17.9	17.9	13.5	17.9	17.9	9.0
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: P249152

CATALOG NUMBER: LD8B175D010 ER8B175935 8LBDW0H

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8364.4	8364.4	8364.4	8364.4	8364.4	8364.4	8364.4	8364.4	8364.4	8364.4	8364.4
2.5°	8377.9	8373.4	8382.4	8377.9	8377.9	8373.4	8377.9	8373.4	8382.4	8364.4	8368.9
5°	8377.9	8368.9	8373.4	8377.9	8382.4	8373.4	8373.4	8373.4	8382.4	8373.4	8377.9
7.5°	8359.9	8355.3	8368.9	8377.9	8373.4	8368.9	8377.9	8373.4	8382.4	8377.9	8386.8
10°	8323.9	8328.4	8337.4	8350.8	8355.3	8359.9	8368.9	8368.9	8382.4	8364.4	8373.4
12.5°	8270.1	8288.0	8310.5	8319.4	8337.4	8337.4	8346.4	8350.8	8359.9	8355.3	8368.9
15°	8202.8	8225.2	8252.1	8274.6	8297.0	8310.5	8323.9	8328.4	8341.9	8328.4	8332.9
17.5°	8121.9	8148.8	8189.2	8216.2	8252.1	8265.6	8283.5	8292.5	8306.0	8297.0	8301.5
20°	8009.6	8041.2	8086.0	8126.4	8148.8	8180.2	8202.8	8216.2	8225.2	8216.2	8220.7
22.5°	7852.5	7897.5	7955.8	7987.2	8032.1	8059.1	8063.6	8095.0	8117.4	8095.0	8104.0
25°	7668.4	7713.3	7758.3	7825.6	7866.0	7897.5	7928.9	7933.4	7955.8	7951.3	7946.8
27.5°	7363.1	7421.6	7497.8	7551.7	7605.6	7655.0	7690.9	7699.8	7722.4	7713.3	7717.8
30°	6945.6	7008.5	7080.4	7165.6	7242.0	7291.3	7336.2	7367.6	7390.0	7376.6	7372.1
32.5°	6353.0	6415.8	6492.2	6577.4	6667.3	6739.0	6793.0	6833.4	6860.3	6851.3	6828.9
35°	5675.1	5693.0	5742.4	5809.8	5886.0	5962.3	6011.8	6056.6	6088.0	6097.0	6097.0
37.5°	4979.1	4920.8	4884.9	4884.9	4929.7	4961.1	5006.0	5033.0	5082.4	5100.3	5113.8
40°	4305.6	4170.9	4045.2	3951.0	3888.1	3883.6	3883.6	3897.0	3942.0	4000.3	4054.2
42.5°	3704.0	3488.5	3295.5	3120.4	2994.7	2922.8	2891.4	2895.9	2931.8	2985.7	3075.4
45°	3223.6	2954.3	2711.8	2500.8	2330.2	2217.9	2164.1	2159.6	2186.5	2249.3	2348.2
47.5°	2851.0	2563.6	2289.7	2047.3	1863.3	1742.0	1679.2	1661.2	1679.2	1737.5	1854.3
50°	2541.2	2244.9	1962.0	1710.6	1513.1	1387.4	1328.9	1306.5	1328.9	1378.4	1495.0
52.5°	2253.8	1948.5	1683.7	1441.2	1230.2	1122.4	1059.6	1046.1	1059.6	1117.9	1212.3
55°	1921.6	1661.2	1400.8	1158.3	974.3	866.5	817.1	803.7	817.1	871.0	969.8
57.5°	1593.9	1369.4	1140.4	920.4	763.3	668.9	624.1	606.1	637.5	673.4	790.2
60°	1288.5	1109.0	915.9	722.9	592.7	507.3	471.4	466.9	475.9	520.8	601.6
62.5°	1010.2	862.0	709.3	552.2	444.5	408.6	363.6	359.2	368.1	395.0	458.0
65°	727.4	633.1	516.3	404.1	318.8	269.4	251.5	256.0	264.9	282.9	341.2
67.5°	507.3	440.0	359.2	282.9	220.0	197.5	179.6	175.1	179.6	211.0	242.5
70°	341.2	300.8	242.5	215.5	152.7	121.2	125.7	112.3	130.2	130.2	157.1
72.5°	224.4	197.5	161.6	125.7	107.8	85.4	85.4	80.9	89.8	94.3	116.8
75°	116.8	89.8	89.8	62.8	44.9	22.4	40.4	35.9	31.4	35.9	44.9
77.5°	80.9	67.3	62.8	49.4	44.9	35.9	35.9	35.9	35.9	40.4	44.9
80°	49.4	49.4	35.9	31.4	26.9	22.4	26.9	26.9	26.9	26.9	31.4
82.5°	31.4	26.9	26.9	22.4	22.4	17.9	17.9	17.9	17.9	17.9	26.9
85°	26.9	17.9	17.9	13.5	17.9	31.4	13.5	17.9	17.9	17.9	13.5
87.5°	9.0	13.5	13.5	13.5	9.0	4.5	9.0	13.5	13.5	22.4	17.9
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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CATALOG NUMBER: LD8B175D010 ER8B175935 8LBDW0H

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8364.4	8364.4	8364.4	8364.4	8364.4	8364.4	8364.4	8364.4	8364.4	8364.4	8364.4
2.5°	8377.9	8382.4	8382.4	8377.9	8377.9	8368.9	8386.8	8373.4	8377.9	8395.8	8382.4
5°	8386.8	8391.3	8391.3	8386.8	8386.8	8386.8	8391.3	8391.3	8386.8	8382.4	8391.3
7.5°	8404.8	8400.3	8400.3	8391.3	8391.3	8382.4	8391.3	8377.9	8386.8	8377.9	8391.3
10°	8382.4	8386.8	8382.4	8377.9	8377.9	8373.4	8373.4	8359.9	8364.4	8350.8	8359.9
12.5°	8368.9	8364.4	8364.4	8355.3	8346.4	8337.4	8332.9	8319.4	8319.4	8288.0	8301.5
15°	8332.9	8337.4	8323.9	8306.0	8297.0	8274.6	8265.6	8247.6	8229.7	8207.3	8211.8
17.5°	8301.5	8288.0	8270.1	8252.1	8216.2	8198.3	8180.2	8153.3	8144.3	8117.4	8108.5
20°	8207.3	8198.3	8175.8	8144.3	8121.9	8081.5	8063.6	8036.7	8014.1	7987.2	7973.7
22.5°	8086.0	8077.0	8050.1	8018.6	7982.7	7964.8	7946.8	7897.5	7874.9	7848.0	7843.5
25°	7933.4	7919.9	7893.0	7857.0	7839.0	7789.7	7771.7	7735.8	7726.9	7699.8	7695.4
27.5°	7699.8	7681.9	7650.5	7605.6	7574.2	7542.7	7524.8	7497.8	7488.9	7461.9	7457.5
30°	7349.7	7327.2	7264.4	7246.5	7192.5	7161.1	7161.1	7125.2	7129.7	7111.8	7111.8
32.5°	6797.5	6761.5	6712.1	6676.2	6640.3	6622.4	6622.4	6608.9	6617.9	6617.9	6626.9
35°	6065.6	6016.3	5989.3	5966.8	5966.8	5984.8	6038.7	6052.2	6079.1	6101.5	6119.5
37.5°	5127.2	5122.8	5154.2	5181.2	5248.5	5324.8	5419.1	5500.0	5576.2	5630.1	5684.0
40°	4112.6	4224.9	4314.6	4440.4	4543.6	4691.7	4862.4	5001.5	5131.7	5226.1	5324.8
42.5°	3210.1	3353.8	3542.4	3726.4	3910.6	4112.6	4337.1	4530.1	4700.8	4830.9	4934.2
45°	2500.8	2698.3	2927.3	3160.8	3398.7	3650.2	3883.6	4081.2	4260.8	4395.5	4498.7
47.5°	2015.9	2231.4	2491.8	2747.7	3017.1	3282.0	3542.4	3713.0	3861.1	3968.9	4063.3
50°	1665.6	1894.7	2168.6	2460.3	2729.7	2994.7	3219.1	3385.2	3506.5	3600.8	3659.1
52.5°	1391.8	1634.2	1926.1	2217.9	2487.3	2729.7	2931.8	3057.5	3156.3	3223.6	3277.5
55°	1149.3	1382.9	1656.7	1930.6	2195.5	2424.4	2590.5	2684.9	2761.1	2801.6	2833.0
57.5°	938.4	1153.8	1405.3	1656.7	1885.7	2074.3	2204.5	2298.7	2334.7	2366.1	2361.6
60°	736.4	938.4	1167.3	1382.9	1580.4	1733.0	1827.3	1881.2	1908.1	1921.6	1912.6
62.5°	579.2	763.3	938.4	1126.9	1270.6	1400.8	1490.6	1490.6	1504.0	1508.5	1522.1
65°	431.0	570.2	722.9	862.0	978.7	1064.1	1113.5	1126.9	1144.9	1140.4	1131.4
67.5°	318.8	422.1	534.2	637.5	718.4	772.2	808.1	839.6	835.1	826.1	821.6
70°	220.0	287.4	386.1	449.0	507.3	561.3	570.2	574.7	579.2	583.7	574.7
72.5°	152.7	202.0	256.0	309.8	345.7	368.1	390.6	395.0	395.0	395.0	390.6
75°	76.3	103.3	152.7	175.1	206.5	215.5	233.4	233.4	247.0	228.9	224.4
77.5°	67.3	80.9	107.8	125.7	139.2	152.7	157.1	170.6	166.1	157.1	161.6
80°	40.4	49.4	67.3	76.3	94.3	98.8	103.3	107.8	103.3	107.8	107.8
82.5°	31.4	35.9	44.9	44.9	58.3	58.3	62.8	62.8	67.3	67.3	67.3
85°	17.9	31.4	26.9	53.8	35.9	35.9	44.9	53.8	44.9	44.9	53.8
87.5°	17.9	17.9	13.5	17.9	17.9	17.9	22.4	26.9	26.9	31.4	26.9
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: P249152

CATALOG NUMBER: LD8B175D010 ER8B175935 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8364.4	8364.4	8364.4	8364.4
2.5°	8377.9	8386.8	8373.4	8368.9
5°	8391.3	8391.3	8382.4	8382.4
7.5°	8391.3	8391.3	8377.9	8368.9
10°	8355.3	8355.3	8341.9	8332.9
12.5°	8288.0	8288.0	8283.5	8270.1
15°	8202.8	8202.8	8184.7	8171.3
17.5°	8086.0	8095.0	8072.6	8072.6
20°	7960.3	7955.8	7937.9	7928.9
22.5°	7830.1	7821.1	7816.6	7789.7
25°	7690.9	7681.9	7668.4	7655.0
27.5°	7453.0	7448.5	7435.0	7417.1
30°	7089.3	7084.7	7066.8	7066.8
32.5°	6617.9	6613.4	6595.4	6599.9
35°	6128.4	6146.5	6137.5	6119.5
37.5°	5719.9	5733.4	5742.4	5733.4
40°	5378.7	5419.1	5423.6	5432.6
42.5°	5015.1	5068.9	5086.9	5095.8
45°	4579.5	4628.9	4669.3	4660.3
47.5°	4135.0	4170.9	4206.8	4179.9
50°	3708.5	3730.9	3744.5	3744.5
52.5°	3304.5	3304.5	3300.0	3304.5
55°	2842.0	2842.0	2824.1	2833.0
57.5°	2357.1	2366.1	2352.6	2330.2
60°	1908.1	1885.7	1876.7	1863.3
62.5°	1486.1	1486.1	1454.7	1495.0
65°	1113.5	1100.0	1086.5	1082.0
67.5°	808.1	803.7	790.2	785.7
70°	570.2	552.2	547.7	538.7
72.5°	381.6	381.6	372.6	372.6
75°	233.4	211.0	206.5	211.0
77.5°	161.6	157.1	157.1	152.7
80°	107.8	103.3	112.3	98.8
82.5°	67.3	71.8	67.3	71.8
85°	44.9	53.8	49.4	49.4
87.5°	26.9	26.9	26.9	26.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)