

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: P248333

Luminaire Tested: **LD8B175D010 ER8B175827 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248333
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 ER8B175827 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18074.0 lumens
Efficiency: N/A
Efficacy: 102.0 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

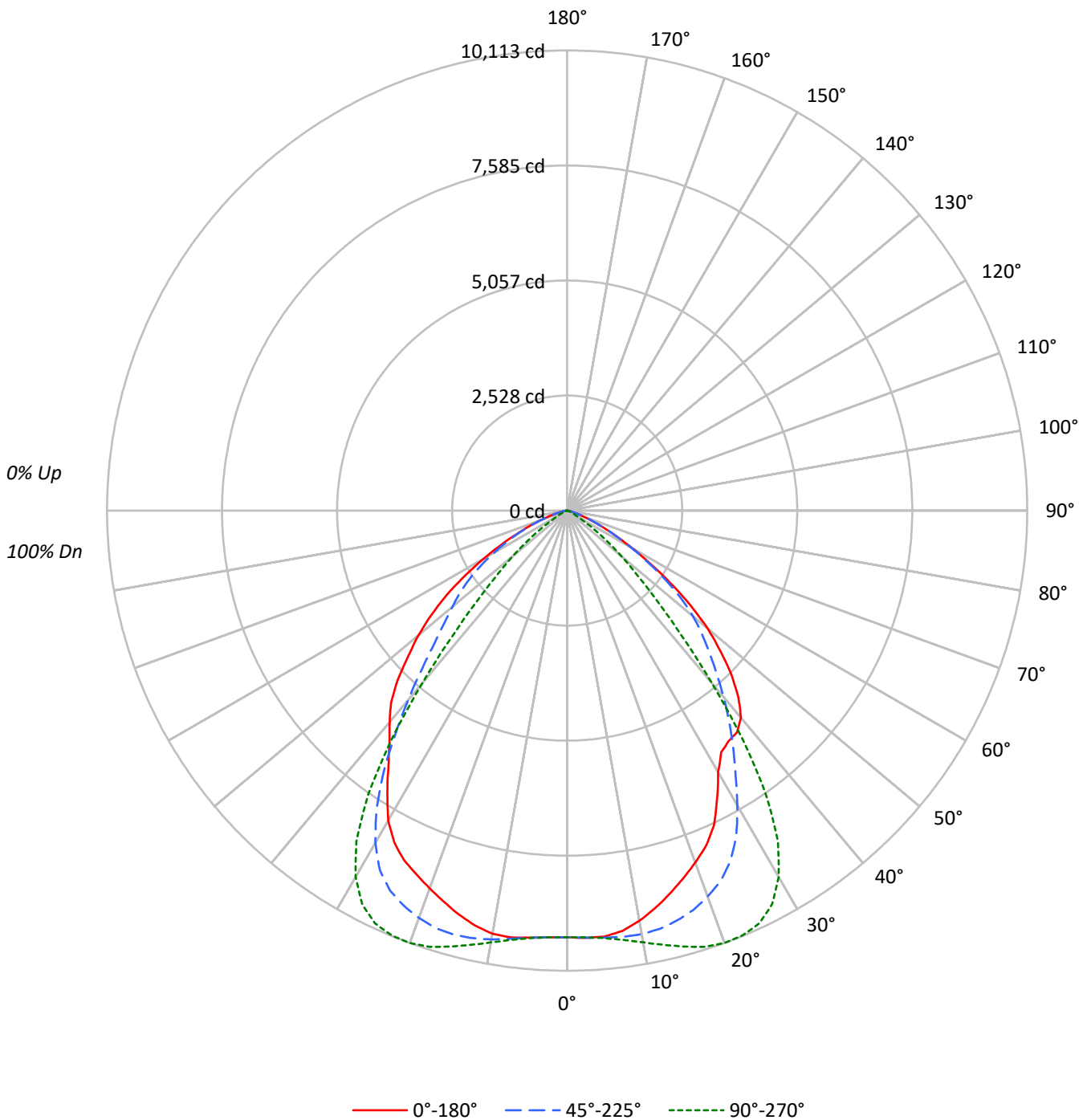
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	289127	289127	289127
5°	290848	291928	291619
10°	286574	301691	295770
15°	278196	316646	293446
20°	270123	331855	289884
25°	259750	340353	288538
30°	236389	331021	279983
35°	232871	286830	257599
40°	239201	198931	244205
45°	222677	120235	229624
50°	193148	74247	204609
55°	148226	38794	173644
60°	100983	15653	131061
65°	62816	7990	90418
70°	34098	4941	55196
75°	17788	2371	32609
80°	7956	2664	17669
85°	5307	1769	15851



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	901.7	5.0
10°-20°	2671.2	14.8
20°-30°	4075.1	22.5
30°-40°	4252.4	23.5
40°-50°	3194.1	17.7
50°-60°	1965.3	10.9
60°-70°	799.8	4.4
70°-80°	188.4	1.0
80°-90°	26.0	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°	7648.0	42.3
0°-40°	11900.4	65.8
0°-60°	17059.8	94.4
0°-90°	18074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18074.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9376	9376	9376	9376	9376	
5°	9396	9421	9431	9421	9421	889
15°	8714	9326	9919	9645	9192	2455
25°	7634	8490	10003	9212	8480	3471
35°	6186	6360	7620	7042	6843	3906
45°	5106	4419	2757	4116	5266	3896
55°	2757	2618	722	2618	3230	2478
65°	861	871	110	1170	1239	898
75°	149	149	20	264	274	180
85°	15	15	5	35	45	21
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°	9376.2	9376.2	9376.2	9376.2	9376.2	9376.2	9376.2	9376.2	9376.2	9376.2	9376.2
2.5°	9401.1	9386.1	9401.1	9401.1	9406.1	9396.1	9401.1	9406.1	9396.1	9396.1	9396.1
5°	9396.1	9386.1	9396.1	9391.1	9401.1	9401.1	9411.1	9411.1	9421.0	9421.0	9435.9
7.5°	9316.5	9296.6	9316.5	9331.5	9341.3	9361.3	9386.1	9406.1	9426.0	9445.9	9470.8
10°	9152.2	9152.2	9167.2	9197.0	9226.9	9261.7	9306.5	9356.3	9406.1	9450.8	9495.6
12.5°	8948.2	8933.3	8963.1	9002.9	9047.7	9102.5	9172.2	9246.8	9326.5	9416.0	9485.7
15°	8714.3	8699.3	8734.2	8774.0	8828.8	8908.4	8993.1	9092.5	9207.0	9326.5	9440.9
17.5°	8475.4	8470.4	8505.2	8560.0	8604.8	8689.4	8798.9	8918.3	9047.7	9207.0	9356.3
20°	8231.6	8226.6	8261.4	8306.3	8365.9	8445.6	8555.0	8694.3	8848.6	9027.9	9202.0
22.5°	7977.7	7982.7	8012.5	8062.3	8112.1	8196.7	8311.1	8450.6	8619.7	8813.8	9007.9
25°	7634.3	7609.5	7649.3	7699.1	7783.6	7853.3	7962.9	8112.1	8286.3	8490.4	8719.3
27.5°	7136.6	7131.6	7166.6	7211.3	7285.9	7370.6	7490.0	7644.3	7828.4	8052.4	8276.3
30°	6638.9	6648.9	6663.9	6708.7	6758.4	6843.0	6962.5	7091.9	7266.1	7480.0	7718.9
32.5°	6300.5	6300.5	6320.5	6350.3	6385.2	6430.0	6514.6	6609.1	6743.5	6892.8	7067.0
35°	6186.1	6166.2	6186.1	6191.1	6196.1	6206.0	6220.9	6250.8	6295.5	6360.3	6425.0
37.5°	6136.4	6121.4	6121.4	6101.6	6076.6	6046.8	6006.9	5962.1	5912.4	5847.7	5798.0
40°	5942.3	5932.3	5922.3	5902.5	5847.7	5788.0	5723.2	5618.7	5504.3	5345.0	5185.8
42.5°	5569.0	5559.1	5554.1	5514.2	5464.4	5394.8	5320.1	5210.7	5066.4	4862.3	4633.3
45°	5106.2	5086.2	5071.4	5036.5	5001.6	4941.9	4872.3	4772.7	4628.3	4419.4	4145.6
47.5°	4568.7	4558.7	4553.7	4538.8	4504.0	4469.1	4424.4	4344.7	4215.3	4016.2	3732.6
50°	4026.2	4006.3	4016.2	4011.3	3996.3	3971.5	3941.5	3886.9	3787.3	3608.1	3349.4
52.5°	3404.0	3404.0	3399.2	3414.0	3419.0	3414.0	3419.0	3359.3	3274.7	3140.3	2921.3
55°	2757.1	2757.1	2772.0	2792.0	2811.9	2816.9	2811.9	2787.0	2727.2	2617.8	2423.6
57.5°	2149.9	2140.0	2169.9	2199.7	2219.7	2239.5	2224.6	2204.7	2169.9	2080.2	1931.0
60°	1637.4	1637.4	1657.2	1677.2	1697.0	1717.0	1712.0	1707.0	1677.2	1617.4	1498.0
62.5°	1204.3	1209.3	1209.3	1224.3	1244.2	1264.1	1279.0	1264.1	1249.1	1209.3	1129.7
65°	860.9	855.9	860.9	875.9	890.9	910.7	920.7	915.7	900.8	870.9	811.2
67.5°	577.3	572.3	592.2	597.2	607.2	627.1	622.1	627.1	622.1	597.2	547.5
70°	378.2	368.2	378.2	373.2	388.2	393.2	403.1	408.1	403.1	388.2	373.2
72.5°	233.9	228.9	233.9	238.9	243.9	248.8	258.8	258.8	253.8	243.9	223.9
75°	149.3	134.3	139.3	129.4	139.3	139.3	149.3	154.3	149.3	149.3	139.3
77.5°	89.6	89.6	89.6	89.6	89.6	89.6	89.6	94.6	99.5	89.6	84.6
80°	44.8	44.8	49.8	49.8	49.8	54.8	49.8	49.8	49.8	54.8	39.8
82.5°	34.8	29.8	29.8	29.8	34.8	29.8	29.8	29.8	29.8	29.8	29.8
85°	15.0	19.9	15.0	10.0	15.0	15.0	19.9	15.0	15.0	15.0	19.9
87.5°	5.0	5.0	0.0	0.0	0.0	5.0	0.0	5.0	5.0	10.0	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9376.2	9376.2	9376.2	9376.2	9376.2	9376.2	9376.2	9376.2	9376.2	9376.2	9376.2
2.5°	9401.1	9391.1	9391.1	9386.1	9396.1	9386.1	9391.1	9386.1	9386.1	9396.1	9386.1
5°	9435.9	9440.9	9431.0	9426.0	9440.9	9440.9	9440.9	9431.0	9431.0	9435.9	9431.0
7.5°	9485.7	9495.6	9500.6	9505.6	9515.6	9520.6	9520.6	9515.6	9510.6	9525.6	9505.6
10°	9540.4	9555.4	9585.2	9600.2	9625.1	9625.1	9635.0	9635.0	9625.1	9635.0	9630.0
12.5°	9520.6	9610.1	9659.9	9694.7	9729.5	9759.4	9769.4	9774.3	9769.4	9789.3	9769.4
15°	9555.4	9630.0	9709.7	9769.4	9834.0	9868.8	9878.8	9918.7	9928.6	9933.6	9903.8
17.5°	9500.6	9635.0	9719.6	9809.2	9903.8	9968.5	10028.1	10053.1	10058.1	10067.9	10028.1
20°	9376.2	9525.6	9654.9	9784.3	9893.8	9993.3	10043.1	10112.8	10092.9	10132.7	10077.9
22.5°	9207.0	9376.2	9540.4	9709.7	9824.2	9943.6	10048.1	10097.8	10122.7	10122.7	10063.0
25°	8938.3	9137.4	9316.5	9490.6	9664.9	9809.2	9928.6	10003.3	10018.3	10013.3	9943.6
27.5°	8520.2	8734.2	8943.2	9142.3	9356.3	9525.6	9664.9	9754.4	9779.3	9779.3	9704.7
30°	7942.9	8171.8	8375.9	8614.7	8833.8	9022.9	9217.0	9296.6	9341.3	9341.3	9256.8
32.5°	7256.1	7450.2	7639.3	7873.2	8112.1	8326.1	8510.2	8619.7	8674.5	8669.5	8594.9
35°	6509.6	6604.1	6748.5	6922.7	7136.6	7335.7	7514.9	7619.5	7714.0	7709.0	7639.3
37.5°	5763.0	5738.2	5753.2	5817.8	5952.1	6091.6	6230.9	6330.5	6410.0	6445.0	6430.0
40°	5031.5	4902.1	4777.6	4732.9	4742.8	4792.6	4867.3	4941.9	5031.5	5076.3	5096.2
42.5°	4374.6	4155.6	3936.6	3772.4	3677.8	3648.0	3682.8	3707.6	3762.4	3827.1	3891.9
45°	3847.1	3553.5	3264.7	3011.0	2851.7	2757.1	2737.2	2757.1	2787.0	2851.7	2936.3
47.5°	3414.0	3070.6	2747.2	2463.5	2229.5	2105.2	2070.4	2060.4	2090.2	2149.9	2264.4
50°	3030.8	2687.4	2329.1	2000.6	1756.8	1617.4	1567.7	1547.7	1582.6	1627.4	1731.9
52.5°	2612.8	2274.4	1906.1	1587.6	1333.8	1189.5	1134.7	1104.8	1124.7	1184.5	1289.0
55°	2159.9	1846.3	1512.9	1184.5	940.6	806.3	741.5	721.6	741.5	806.3	910.7
57.5°	1707.0	1443.3	1164.5	855.9	637.0	502.7	437.9	418.0	472.8	497.7	607.2
60°	1333.8	1119.8	880.9	627.1	437.9	333.4	268.8	253.8	278.7	323.4	413.1
62.5°	1000.4	865.9	676.8	447.9	323.4	214.0	179.1	164.3	179.1	214.0	283.7
65°	726.6	622.1	472.8	328.4	218.9	159.3	119.5	109.5	124.5	149.3	209.1
67.5°	497.7	418.0	328.4	228.9	149.3	99.5	84.6	84.6	89.6	109.5	154.3
70°	323.4	273.7	209.1	149.3	99.5	74.6	64.7	54.8	64.7	79.6	104.5
72.5°	204.1	174.1	134.3	104.5	74.6	54.8	44.8	39.8	49.8	59.7	79.6
75°	124.5	94.6	69.7	54.8	39.8	39.8	39.8	19.9	24.8	39.8	49.8
77.5°	74.6	64.7	54.8	44.8	34.8	19.9	19.9	19.9	24.8	29.8	44.8
80°	39.8	34.8	24.8	24.8	19.9	15.0	19.9	15.0	10.0	24.8	29.8
82.5°	24.8	19.9	19.9	19.9	24.8	10.0	15.0	10.0	15.0	19.9	15.0
85°	15.0	15.0	15.0	10.0	24.8	10.0	10.0	5.0	5.0	10.0	10.0
87.5°	0.0	5.0	5.0	0.0	5.0	0.0	5.0	5.0	5.0	5.0	5.0
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°	9376.2	9376.2	9376.2	9376.2	9376.2	9376.2	9376.2	9376.2	9376.2	9376.2	9376.2
2.5°	9391.1	9386.1	9391.1	9386.1	9386.1	9386.1	9391.1	9391.1	9386.1	9386.1	9396.1
5°	9431.0	9431.0	9431.0	9426.0	9421.0	9421.0	9431.0	9431.0	9416.0	9431.0	9431.0
7.5°	9515.6	9500.6	9515.6	9495.6	9485.7	9490.6	9495.6	9485.7	9475.8	9480.8	9480.8
10°	9625.1	9610.1	9610.1	9595.2	9580.2	9570.3	9560.4	9535.4	9510.6	9505.6	9485.7
12.5°	9754.4	9729.5	9714.7	9684.7	9659.9	9625.1	9595.2	9555.4	9505.6	9470.8	9435.9
15°	9883.8	9844.0	9809.2	9759.4	9704.7	9644.9	9580.2	9515.6	9435.9	9366.3	9306.5
17.5°	9988.3	9933.6	9868.8	9789.3	9709.7	9620.1	9525.6	9431.0	9316.5	9226.9	9157.2
20°	10023.1	9943.6	9859.0	9754.4	9649.9	9525.6	9406.1	9281.7	9152.2	9057.7	8978.1
22.5°	9978.4	9883.8	9779.3	9669.9	9530.4	9396.1	9256.8	9112.4	8997.9	8868.6	8794.0
25°	9854.0	9739.5	9625.1	9495.6	9361.3	9212.0	9062.7	8913.4	8774.0	8704.3	8609.8
27.5°	9600.2	9475.8	9351.3	9217.0	9062.7	8913.4	8759.1	8614.7	8495.4	8400.8	8346.1
30°	9152.2	9007.9	8863.6	8719.3	8584.9	8430.6	8286.3	8166.8	8047.4	7972.7	7918.0
32.5°	8465.4	8336.1	8191.8	8052.4	7928.0	7798.6	7679.1	7574.6	7490.0	7440.2	7400.4
35°	7539.8	7410.4	7300.9	7201.4	7096.8	7042.1	6967.5	6907.7	6872.9	6853.0	6848.0
37.5°	6375.2	6300.5	6265.7	6245.9	6225.9	6211.0	6220.9	6245.9	6265.7	6300.5	6340.4
40°	5131.0	5195.7	5215.7	5285.3	5350.0	5434.6	5529.2	5638.7	5728.2	5842.7	5922.3
42.5°	3996.3	4115.8	4255.1	4404.4	4563.7	4718.0	4907.1	5081.2	5240.5	5384.8	5509.3
45°	3070.6	3254.7	3463.8	3677.8	3891.9	4115.8	4344.7	4558.7	4747.8	4902.1	5031.5
47.5°	2393.8	2597.9	2866.7	3130.4	3389.2	3652.9	3906.7	4130.7	4289.9	4439.2	4553.7
50°	1896.1	2130.1	2423.6	2727.2	3011.0	3289.6	3558.3	3767.4	3926.7	4046.1	4130.7
52.5°	1468.1	1746.8	2045.4	2364.0	2667.6	2971.1	3219.9	3414.0	3543.5	3648.0	3712.6
55°	1094.9	1368.6	1687.2	2015.6	2324.2	2617.8	2851.7	3020.9	3135.4	3195.1	3229.9
57.5°	791.3	1040.2	1358.6	1687.2	1965.8	2244.5	2433.6	2587.9	2652.6	2687.4	2702.4
60°	577.3	806.3	1089.9	1373.6	1637.4	1861.3	2025.6	2130.1	2179.9	2199.7	2194.7
62.5°	423.0	622.1	865.9	1104.8	1318.8	1502.9	1632.4	1702.0	1727.0	1736.8	1722.0
65°	323.4	477.7	686.8	870.9	1035.2	1169.5	1264.1	1308.9	1323.8	1318.8	1308.9
67.5°	238.9	358.4	512.7	652.0	771.4	875.9	925.7	965.5	975.4	960.5	945.6
70°	169.3	263.8	373.2	467.8	557.4	617.1	671.8	676.8	676.8	671.8	662.0
72.5°	119.5	184.1	253.8	318.6	373.2	418.0	437.9	452.9	447.9	442.9	433.0
75°	79.6	114.5	184.1	199.1	248.8	263.8	283.7	283.7	288.6	273.7	273.7
77.5°	49.8	79.6	109.5	129.4	149.3	169.3	179.1	179.1	184.1	179.1	179.1
80°	29.8	49.8	59.7	89.6	89.6	104.5	109.5	114.5	104.5	119.5	104.5
82.5°	19.9	29.8	44.8	44.8	54.8	64.7	64.7	69.7	69.7	64.7	64.7
85°	15.0	19.9	24.8	29.8	29.8	34.8	29.8	29.8	34.8	39.8	34.8
87.5°	5.0	10.0	5.0	10.0	10.0	19.9	15.0	15.0	15.0	19.9	19.9
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: P248333

CATALOG NUMBER: LD8B175D010 ER8B175827 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9376.2	9376.2	9376.2	9376.2
2.5°	9386.1	9391.1	9386.1	9386.1
5°	9431.0	9426.0	9431.0	9421.0
7.5°	9465.8	9465.8	9460.8	9460.8
10°	9465.8	9445.9	9445.9	9445.9
12.5°	9391.1	9366.3	9351.3	9341.3
15°	9261.7	9217.0	9197.0	9192.0
17.5°	9092.5	9052.7	9027.9	9012.9
20°	8898.4	8858.6	8828.8	8833.8
22.5°	8729.2	8684.5	8664.5	8654.5
25°	8560.0	8505.2	8490.4	8480.4
27.5°	8286.3	8256.4	8241.5	8226.6
30°	7868.2	7853.3	7828.4	7863.2
32.5°	7385.5	7360.6	7340.7	7355.7
35°	6853.0	6838.0	6853.0	6843.0
37.5°	6365.3	6380.2	6400.1	6410.0
40°	5982.1	6036.8	6056.7	6066.6
42.5°	5598.9	5663.5	5703.4	5728.2
45°	5126.0	5190.7	5235.5	5265.5
47.5°	4638.3	4693.1	4737.8	4732.9
50°	4195.4	4225.3	4245.1	4265.1
52.5°	3747.4	3747.4	3752.4	3752.4
55°	3239.9	3229.9	3224.9	3229.9
57.5°	2682.4	2672.5	2667.6	2652.6
60°	2174.9	2145.0	2125.1	2125.1
62.5°	1702.0	1667.2	1652.3	1647.3
65°	1279.0	1274.0	1244.2	1239.2
67.5°	925.7	905.7	885.9	890.9
70°	652.0	622.1	622.1	612.2
72.5°	423.0	408.1	403.1	403.1
75°	263.8	263.8	253.8	273.7
77.5°	174.1	174.1	169.3	174.1
80°	104.5	104.5	104.5	99.5
82.5°	64.7	69.7	64.7	64.7
85°	34.8	39.8	29.8	44.8
87.5°	19.9	24.8	19.9	24.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)