

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: P249197

Luminaire Tested: **LD8B175D010 ER8B175827 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249197
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 ER8B175827 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17350.0 lumens
Efficiency: N/A
Efficacy: 97.9 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

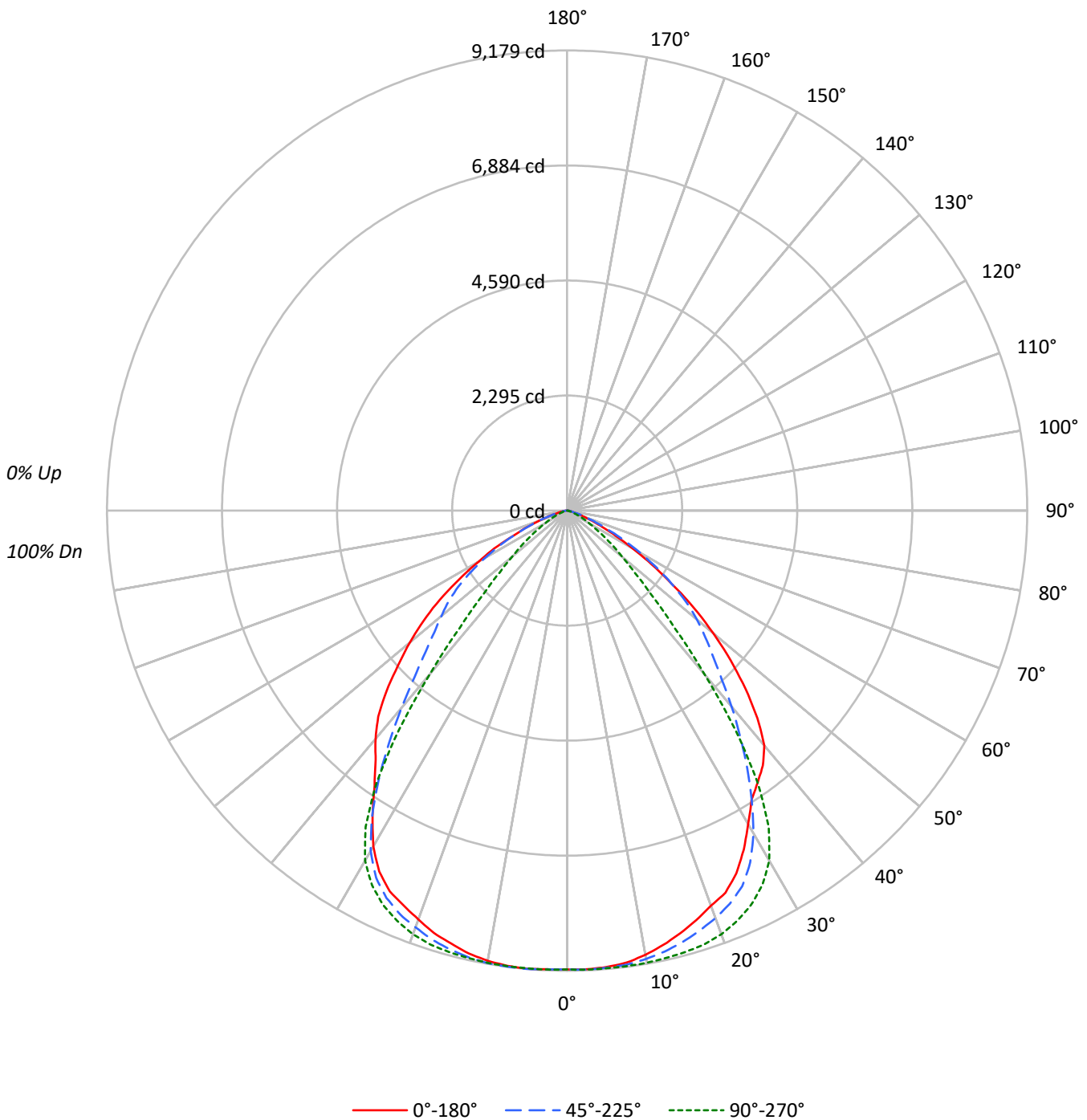
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	282282	282282	282282
5°	282902	283667	283970
10°	281711	286790	285559
15°	278592	290985	285497
20°	275245	295075	284758
25°	271672	295414	285051
30°	257020	287111	275389
35°	249344	249525	252118
40°	246254	171683	239334
45°	219424	103070	222424
50°	182450	68596	196592
55°	136839	47289	166687
60°	92731	31515	125763
65°	55935	20437	86398
70°	31015	11081	53158
75°	14047	4682	27522
80°	12217	5239	19196
85°	13905	6935	19141



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	873.6	5.0
10°-20°	2537.2	14.6
20°-30°	3850.9	22.2
30°-40°	4044.6	23.3
40°-50°	3032.4	17.5
50°-60°	1945.7	11.2
60°-70°	832.3	4.8
70°-80°	196.6	1.1
80°-90°	36.6	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°	7261.8	41.9
0°-40°	11306.4	65.2
0°-60°	16284.5	93.9
0°-90°	17350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17350.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9154	9154	9154	9154	9154	
5°	9139	9154	9164	9179	9174	868
15°	8727	8909	9115	9056	8943	2461
25°	7985	8265	8682	8525	8378	3648
35°	6624	6255	6628	6550	6697	4157
45°	5032	4113	2364	3995	5100	3853
55°	2545	2545	880	2653	3100	2309
65°	767	904	280	1164	1184	818
75°	118	138	39	236	231	172
85°	39	24	20	39	54	41
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°	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2
2.5°	9159.1	9169.0	9164.1	9164.1	9159.1	9164.1	9164.1	9173.9	9173.9	9164.1	9159.1
5°	9139.4	9149.3	9149.3	9139.4	9139.4	9164.1	9149.3	9159.1	9159.1	9154.2	9154.2
7.5°	9095.3	9095.3	9114.9	9100.2	9100.2	9114.9	9110.0	9119.8	9129.7	9134.6	9134.6
10°	8996.9	9006.8	9011.7	9011.7	9016.7	9031.3	9041.2	9060.9	9070.6	9080.5	9085.4
12.5°	8874.2	8888.9	8893.8	8888.9	8903.6	8923.2	8947.9	8972.4	8987.2	9006.8	9021.6
15°	8726.7	8726.7	8736.5	8751.3	8761.2	8790.6	8815.2	8844.6	8883.9	8908.6	8933.1
17.5°	8564.6	8574.4	8589.1	8589.1	8608.8	8657.9	8672.7	8716.9	8761.2	8785.7	8834.9
20°	8387.7	8397.5	8412.3	8422.1	8446.6	8486.0	8515.4	8554.7	8603.9	8648.2	8697.2
22.5°	8250.1	8230.5	8240.2	8250.1	8274.7	8309.1	8343.5	8392.5	8441.7	8486.0	8535.1
25°	7984.7	7989.7	8004.4	8014.2	8043.8	8073.2	8112.5	8171.4	8215.7	8264.9	8318.8
27.5°	7626.1	7631.0	7655.5	7655.5	7680.1	7729.2	7753.8	7802.9	7862.0	7911.0	7975.0
30°	7218.3	7228.0	7228.0	7247.7	7262.4	7287.0	7311.6	7360.7	7390.2	7434.4	7522.9
32.5°	6844.8	6854.6	6849.6	6844.8	6830.0	6825.1	6820.2	6830.0	6839.9	6854.6	6888.9
35°	6623.7	6599.1	6579.5	6545.1	6505.8	6456.6	6412.4	6353.4	6299.3	6255.1	6206.0
37.5°	6412.4	6407.4	6378.0	6328.8	6250.2	6161.8	6058.6	5930.8	5803.0	5665.5	5532.9
40°	6117.5	6102.8	6078.2	6009.5	5921.0	5812.9	5675.3	5518.1	5311.6	5100.4	4884.2
42.5°	5616.3	5621.2	5591.8	5537.7	5454.2	5351.0	5208.5	5036.6	4815.5	4564.8	4284.8
45°	5031.6	5031.6	5021.8	4977.5	4918.6	4835.1	4727.0	4584.5	4368.3	4112.7	3813.0
47.5°	4422.3	4427.2	4412.4	4402.7	4378.1	4324.1	4245.4	4137.4	3985.0	3739.3	3439.5
50°	3803.2	3803.2	3827.8	3822.8	3822.8	3803.2	3768.9	3704.9	3572.3	3375.7	3095.7
52.5°	3184.1	3193.9	3208.7	3228.3	3252.8	3292.1	3252.8	3223.4	3139.8	2987.5	2746.8
55°	2545.3	2555.1	2579.7	2614.0	2643.6	2682.9	2692.7	2692.7	2648.4	2545.3	2363.5
57.5°	1999.9	1985.1	2004.8	2034.3	2073.6	2112.9	2142.4	2176.8	2171.8	2103.1	1955.7
60°	1503.6	1508.5	1523.2	1552.8	1582.2	1616.6	1655.9	1685.4	1700.2	1665.8	1572.4
62.5°	1095.8	1095.8	1115.4	1144.8	1159.6	1208.8	1233.3	1248.1	1262.8	1257.9	1198.9
65°	766.6	776.3	786.2	801.0	815.6	845.1	859.9	889.3	899.2	904.1	859.9
67.5°	540.6	525.8	535.6	545.4	560.2	579.9	609.3	609.3	624.0	624.0	594.5
70°	344.0	344.0	348.9	363.6	373.4	378.4	388.2	398.0	412.8	407.8	407.8
72.5°	231.0	226.0	231.0	235.9	240.8	255.5	255.5	260.4	270.3	275.2	255.5
75°	117.9	122.9	132.6	127.8	142.5	132.6	137.5	152.3	147.4	137.5	137.5
77.5°	98.2	98.2	98.2	93.4	103.2	103.2	98.2	108.1	103.2	103.2	98.2
80°	68.8	73.7	68.8	63.8	68.8	63.8	63.8	63.8	63.8	63.8	58.9
82.5°	54.1	44.2	49.2	44.2	49.2	49.2	44.2	39.3	39.3	44.2	39.3
85°	39.3	29.5	34.4	34.4	29.5	29.5	29.5	29.5	29.5	24.5	24.5
87.5°	24.5	14.8	14.8	14.8	19.6	19.6	19.6	14.8	19.6	19.6	9.9
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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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2
2.5°	9169.0	9164.1	9173.9	9169.0	9169.0	9164.1	9169.0	9164.1	9173.9	9154.2	9159.1
5°	9169.0	9159.1	9164.1	9169.0	9173.9	9164.1	9164.1	9164.1	9173.9	9164.1	9169.0
7.5°	9149.3	9144.3	9159.1	9169.0	9164.1	9159.1	9169.0	9164.1	9173.9	9169.0	9178.7
10°	9110.0	9114.9	9124.7	9139.4	9144.3	9149.3	9159.1	9159.1	9173.9	9154.2	9164.1
12.5°	9051.0	9070.6	9095.3	9105.0	9124.7	9124.7	9134.6	9139.4	9149.3	9144.3	9159.1
15°	8977.3	9001.9	9031.3	9056.0	9080.5	9095.3	9110.0	9114.9	9129.7	9114.9	9119.8
17.5°	8888.9	8918.3	8962.6	8992.0	9031.3	9046.1	9065.7	9075.6	9090.4	9080.5	9085.4
20°	8766.0	8800.5	8849.5	8893.8	8918.3	8952.7	8977.3	8992.0	9001.9	8992.0	8996.9
22.5°	8594.0	8643.2	8707.1	8741.5	8790.6	8820.1	8825.0	8859.4	8883.9	8859.4	8869.3
25°	8392.5	8441.7	8490.9	8564.6	8608.8	8643.2	8677.6	8682.5	8707.1	8702.1	8697.2
27.5°	8058.4	8122.4	8205.8	8264.9	8323.8	8377.9	8417.2	8426.9	8451.6	8441.7	8446.6
30°	7601.4	7670.3	7748.9	7842.3	7925.8	7979.8	8029.0	8063.4	8087.9	8073.2	8068.3
32.5°	6952.9	7021.7	7105.2	7198.5	7296.9	7375.4	7434.4	7478.7	7508.1	7498.3	7473.7
35°	6211.0	6230.6	6284.7	6358.4	6441.8	6525.4	6579.5	6628.5	6662.9	6672.8	6672.8
37.5°	5449.3	5385.5	5346.1	5346.1	5395.2	5429.6	5478.8	5508.2	5562.3	5581.9	5596.7
40°	4712.2	4564.8	4427.2	4324.1	4255.3	4250.4	4250.4	4265.0	4314.2	4378.1	4437.1
42.5°	4053.8	3817.9	3606.7	3415.0	3277.5	3198.8	3164.5	3169.4	3208.7	3267.6	3365.8
45°	3528.0	3233.2	2967.9	2736.9	2550.2	2427.3	2368.4	2363.5	2392.9	2461.7	2569.9
47.5°	3120.2	2805.7	2506.0	2240.6	2039.2	1906.5	1837.7	1818.1	1837.7	1901.6	2029.4
50°	2781.2	2456.9	2147.3	1872.1	1655.9	1518.4	1454.4	1429.9	1454.4	1508.5	1636.2
52.5°	2466.6	2132.5	1842.6	1577.3	1346.3	1228.4	1159.6	1144.8	1159.6	1223.5	1326.7
55°	2103.1	1818.1	1533.1	1267.7	1066.3	948.4	894.3	879.6	894.3	953.3	1061.4
57.5°	1744.4	1498.7	1248.1	1007.3	835.4	732.1	683.0	663.3	697.7	737.0	864.8
60°	1410.2	1213.7	1002.4	791.1	648.6	555.2	515.9	511.0	520.8	570.0	658.4
62.5°	1105.6	943.4	776.3	604.4	486.5	447.1	398.0	393.1	402.9	432.4	501.2
65°	796.0	692.9	565.1	442.2	348.9	294.8	275.2	280.1	289.9	309.6	373.4
67.5°	555.2	481.5	393.1	309.6	240.8	216.2	196.6	191.6	196.6	231.0	265.3
70°	373.4	329.2	265.3	235.9	167.1	132.6	137.5	122.9	142.5	142.5	171.9
72.5°	245.6	216.2	176.9	137.5	117.9	93.4	93.4	88.5	98.2	103.2	127.8
75°	127.8	98.2	98.2	68.8	49.2	24.5	44.2	39.3	34.4	39.3	49.2
77.5°	88.5	73.7	68.8	54.1	49.2	39.3	39.3	39.3	39.3	44.2	49.2
80°	54.1	54.1	39.3	34.4	29.5	24.5	29.5	29.5	29.5	29.5	34.4
82.5°	34.4	29.5	29.5	24.5	24.5	19.6	19.6	19.6	19.6	19.6	29.5
85°	29.5	19.6	19.6	14.8	19.6	34.4	14.8	19.6	19.6	19.6	14.8
87.5°	9.9	14.8	14.8	14.8	9.9	4.9	9.9	14.8	14.8	24.5	19.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2	9154.2
2.5°	9169.0	9173.9	9173.9	9169.0	9169.0	9159.1	9178.7	9164.1	9169.0	9188.6	9173.9
5°	9178.7	9183.7	9183.7	9178.7	9178.7	9178.7	9183.7	9183.7	9178.7	9173.9	9183.7
7.5°	9198.4	9193.5	9193.5	9183.7	9183.7	9173.9	9183.7	9169.0	9178.7	9169.0	9183.7
10°	9173.9	9178.7	9173.9	9169.0	9169.0	9164.1	9164.1	9149.3	9154.2	9139.4	9149.3
12.5°	9159.1	9154.2	9154.2	9144.3	9134.6	9124.7	9119.8	9105.0	9105.0	9070.6	9085.4
15°	9119.8	9124.7	9110.0	9090.4	9080.5	9056.0	9046.1	9026.4	9006.8	8982.3	8987.2
17.5°	9085.4	9070.6	9051.0	9031.3	8992.0	8972.4	8952.7	8923.2	8913.4	8883.9	8874.2
20°	8982.3	8972.4	8947.9	8913.4	8888.9	8844.6	8825.0	8795.6	8770.9	8741.5	8726.7
22.5°	8849.5	8839.7	8810.2	8775.8	8736.5	8716.9	8697.2	8643.2	8618.6	8589.1	8584.2
25°	8682.5	8667.8	8638.3	8599.0	8579.3	8525.3	8505.6	8466.2	8456.5	8426.9	8422.1
27.5°	8426.9	8407.3	8372.9	8323.8	8289.4	8255.0	8235.4	8205.8	8196.1	8166.5	8161.7
30°	8043.8	8019.1	7950.3	7930.7	7871.7	7837.3	7837.3	7798.0	7802.9	7783.3	7783.3
32.5°	7439.4	7400.0	7345.9	7306.6	7267.3	7247.7	7247.7	7232.9	7242.8	7242.8	7252.6
35°	6638.4	6584.4	6554.8	6530.3	6530.3	6549.9	6608.9	6623.7	6653.2	6677.7	6697.4
37.5°	5611.4	5606.6	5641.0	5670.4	5744.1	5827.7	5930.8	6019.3	6102.8	6161.8	6220.7
40°	4500.9	4623.8	4722.0	4859.7	4972.6	5134.8	5321.5	5473.8	5616.3	5719.6	5827.7
42.5°	3513.2	3670.5	3876.9	4078.3	4279.8	4500.9	4746.7	4957.9	5144.6	5287.1	5400.1
45°	2736.9	2953.1	3203.8	3459.3	3719.7	3994.9	4250.4	4466.5	4663.1	4810.5	4923.5
47.5°	2206.2	2442.1	2727.1	3007.2	3302.0	3591.9	3876.9	4063.7	4225.7	4343.7	4446.9
50°	1822.9	2073.6	2373.3	2692.7	2987.5	3277.5	3523.1	3704.9	3837.6	3940.8	4004.6
52.5°	1523.2	1788.5	2108.0	2427.3	2722.1	2987.5	3208.7	3346.2	3454.3	3528.0	3586.9
55°	1257.9	1513.5	1813.2	2112.9	2402.8	2653.4	2835.1	2938.4	3021.9	3066.1	3100.5
57.5°	1027.0	1262.8	1538.0	1813.2	2063.8	2270.2	2412.7	2515.8	2555.1	2589.5	2584.6
60°	805.9	1027.0	1277.6	1513.5	1729.6	1896.6	1999.9	2058.8	2088.3	2103.1	2093.2
62.5°	633.9	835.4	1027.0	1233.3	1390.6	1533.1	1631.4	1631.4	1646.1	1651.0	1665.8
65°	471.7	624.0	791.1	943.4	1071.1	1164.5	1218.6	1233.3	1253.0	1248.1	1238.3
67.5°	348.9	461.9	584.7	697.7	786.2	845.1	884.4	918.9	914.0	904.1	899.2
70°	240.8	314.5	422.6	491.4	555.2	614.3	624.0	628.9	633.9	638.8	628.9
72.5°	167.1	221.1	280.1	339.0	378.4	402.9	427.5	432.4	432.4	432.4	427.5
75°	83.6	113.0	167.1	191.6	226.0	235.9	255.5	255.5	270.3	250.6	245.6
77.5°	73.7	88.5	117.9	137.5	152.3	167.1	171.9	186.7	181.8	171.9	176.9
80°	44.2	54.1	73.7	83.6	103.2	108.1	113.0	117.9	113.0	117.9	117.9
82.5°	34.4	39.3	49.2	49.2	63.8	63.8	68.8	68.8	73.7	73.7	73.7
85°	19.6	34.4	29.5	58.9	39.3	39.3	49.2	58.9	49.2	49.2	58.9
87.5°	19.6	19.6	14.8	19.6	19.6	19.6	24.5	29.5	29.5	34.4	29.5
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: P249197

CATALOG NUMBER: LD8B175D010 ER8B175827 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9154.2	9154.2	9154.2	9154.2
2.5°	9169.0	9178.7	9164.1	9159.1
5°	9183.7	9183.7	9173.9	9173.9
7.5°	9183.7	9183.7	9169.0	9159.1
10°	9144.3	9144.3	9129.7	9119.8
12.5°	9070.6	9070.6	9065.7	9051.0
15°	8977.3	8977.3	8957.6	8943.0
17.5°	8849.5	8859.4	8834.9	8834.9
20°	8712.0	8707.1	8687.5	8677.6
22.5°	8569.5	8559.7	8554.7	8525.3
25°	8417.2	8407.3	8392.5	8377.9
27.5°	8156.8	8151.8	8137.1	8117.5
30°	7758.7	7753.8	7734.2	7734.2
32.5°	7242.8	7237.9	7218.3	7223.2
35°	6707.2	6726.9	6717.0	6697.4
37.5°	6260.0	6274.8	6284.7	6274.8
40°	5886.6	5930.8	5935.8	5945.6
42.5°	5488.6	5547.5	5567.3	5577.0
45°	5011.9	5066.0	5110.3	5100.4
47.5°	4525.5	4564.8	4604.1	4574.6
50°	4058.7	4083.3	4098.0	4098.0
52.5°	3616.5	3616.5	3611.6	3616.5
55°	3110.4	3110.4	3090.8	3100.5
57.5°	2579.7	2589.5	2574.7	2550.2
60°	2088.3	2063.8	2053.9	2039.2
62.5°	1626.5	1626.5	1592.1	1636.2
65°	1218.6	1203.9	1189.1	1184.1
67.5°	884.4	879.6	864.8	859.9
70°	624.0	604.4	599.5	589.6
72.5°	417.7	417.7	407.8	407.8
75°	255.5	231.0	226.0	231.0
77.5°	176.9	171.9	171.9	167.1
80°	117.9	113.0	122.9	108.1
82.5°	73.7	78.6	73.7	78.6
85°	49.2	58.9	54.1	54.1
87.5°	29.5	29.5	29.5	29.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)