

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: P248342

Luminaire Tested: **LD8B175D010 ER8B175830 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248342
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 ER8B175830 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18526.0 lumens
Efficiency: N/A
Efficacy: 104.5 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

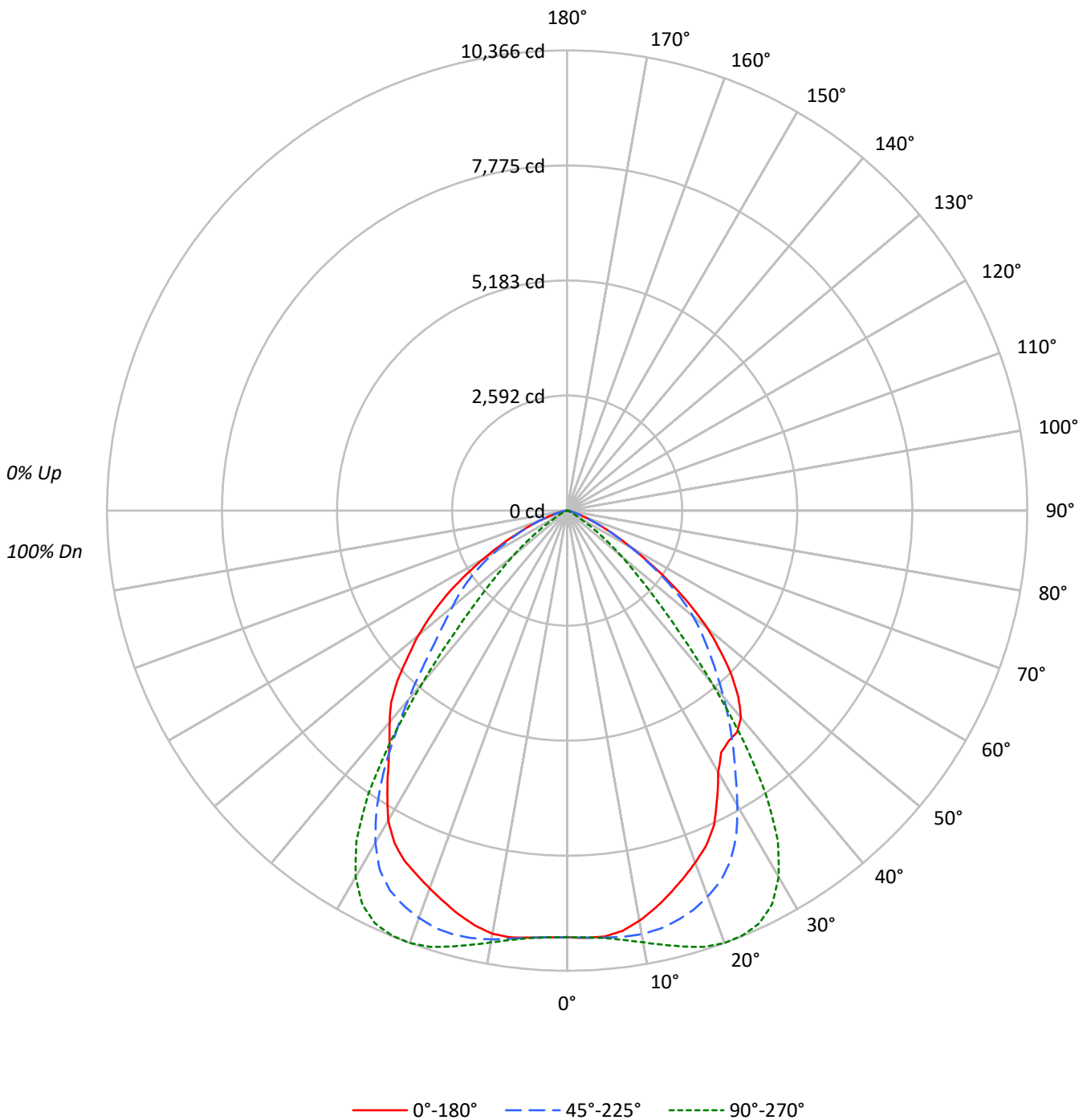
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	296355	296355	296355
5°	298122	299227	298911
10°	293741	309237	303169
15°	285152	324563	300786
20°	276879	340154	297133
25°	266245	348863	295755
30°	242304	339300	286987
35°	238694	294001	264044
40°	245183	203906	250311
45°	228246	123239	235363
50°	197979	76104	209727
55°	151930	39767	177988
60°	103505	16041	134335
65°	64392	8187	92680
70°	34955	5067	56575
75°	18229	2419	33431
80°	8151	2735	18113
85°	5449	1804	16240



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	924.2	5.0
10°-20°	2738.0	14.8
20°-30°	4177.0	22.5
30°-40°	4358.8	23.5
40°-50°	3274.0	17.7
50°-60°	2014.4	10.9
60°-70°	819.8	4.4
70°-80°	193.1	1.0
80°-90°	26.6	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°	7839.2	42.3
0°-40°	12198.0	65.8
0°-60°	17486.5	94.4
0°-90°	18526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18526.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9611	9611	9611	9611	9611	
5°	9631	9657	9667	9657	9657	911
15°	8932	9560	10167	9886	9422	2516
25°	7825	8703	10253	9442	8692	3558
35°	6341	6519	7810	7218	7014	4004
45°	5234	4530	2826	4219	5397	3993
55°	2826	2683	740	2683	3311	2540
65°	882	893	112	1199	1270	920
75°	153	153	20	270	281	184
85°	15	15	5	36	46	22
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°	9610.6	9610.6	9610.6	9610.6	9610.6	9610.6	9610.6	9610.6	9610.6	9610.6	9610.6
2.5°	9636.2	9620.9	9636.2	9636.2	9641.3	9631.1	9636.2	9641.3	9631.1	9631.1	9631.1
5°	9631.1	9620.9	9631.1	9626.0	9636.2	9636.2	9646.5	9646.5	9656.6	9656.6	9671.9
7.5°	9549.5	9529.1	9549.5	9564.8	9574.9	9595.4	9620.9	9641.3	9661.7	9682.2	9707.6
10°	9381.1	9381.1	9396.4	9427.0	9457.6	9493.3	9539.2	9590.3	9641.3	9687.2	9733.1
12.5°	9172.0	9156.7	9187.3	9228.1	9274.0	9330.2	9401.6	9478.1	9559.7	9651.5	9723.0
15°	8932.2	8916.9	8952.6	8993.4	9049.6	9131.2	9218.0	9319.9	9437.3	9559.7	9677.0
17.5°	8687.4	8682.2	8717.9	8774.1	8820.0	8906.7	9019.0	9141.3	9274.0	9437.3	9590.3
20°	8437.5	8432.3	8468.0	8514.0	8575.1	8656.8	8769.0	8911.8	9069.9	9253.7	9432.1
22.5°	8177.2	8182.3	8212.9	8264.0	8315.0	8401.6	8519.0	8661.9	8835.3	9034.2	9233.2
25°	7825.2	7799.8	7840.6	7891.6	7978.3	8049.7	8162.0	8315.0	8493.5	8702.7	8937.4
27.5°	7315.1	7310.0	7345.8	7391.6	7468.1	7554.9	7677.3	7835.5	8024.2	8253.7	8483.3
30°	6805.0	6815.2	6830.6	6876.5	6927.4	7014.2	7136.6	7269.3	7447.8	7667.1	7912.0
32.5°	6458.1	6458.1	6478.6	6509.1	6544.8	6590.8	6677.5	6774.4	6912.2	7065.2	7243.7
35°	6340.8	6320.4	6340.8	6345.9	6351.0	6361.2	6376.5	6407.2	6453.0	6519.4	6585.7
37.5°	6289.8	6274.5	6274.5	6254.1	6228.6	6198.0	6157.2	6111.2	6060.3	5993.9	5943.0
40°	6090.9	6080.6	6070.4	6050.1	5993.9	5932.7	5866.3	5759.2	5641.9	5478.7	5315.5
42.5°	5708.3	5698.1	5693.0	5652.1	5601.1	5529.7	5453.2	5341.0	5193.1	4983.9	4749.2
45°	5233.9	5213.4	5198.2	5162.5	5126.7	5065.5	4994.1	4892.0	4744.1	4529.9	4249.3
47.5°	4682.9	4672.7	4667.6	4652.4	4616.7	4580.8	4535.0	4453.4	4320.7	4116.6	3825.9
50°	4126.9	4106.5	4116.6	4111.6	4096.3	4070.8	4040.1	3984.1	3882.0	3698.4	3433.1
52.5°	3489.2	3489.2	3484.2	3499.4	3504.5	3499.4	3504.5	3443.4	3356.6	3218.8	2994.4
55°	2826.0	2826.0	2841.4	2861.8	2882.2	2887.3	2882.2	2856.7	2795.4	2683.2	2484.3
57.5°	2203.7	2193.6	2224.1	2254.7	2275.2	2295.5	2280.2	2259.8	2224.1	2132.3	1979.2
60°	1678.3	1678.3	1698.7	1719.1	1739.5	1759.9	1754.8	1749.7	1719.1	1657.8	1535.5
62.5°	1234.5	1239.6	1239.6	1254.9	1275.3	1295.7	1311.0	1295.7	1280.4	1239.6	1157.9
65°	882.5	877.4	882.5	897.8	913.2	933.5	943.7	938.6	923.3	892.7	831.5
67.5°	591.8	586.6	607.0	612.1	622.3	642.8	637.7	642.8	637.7	612.1	561.2
70°	387.7	377.5	387.7	382.6	397.9	403.0	413.2	418.3	413.2	397.9	382.6
72.5°	239.8	234.7	239.8	244.9	250.0	255.0	265.2	265.2	260.1	250.0	229.5
75°	153.0	137.7	142.8	132.7	142.8	142.8	153.0	158.1	153.0	153.0	142.8
77.5°	91.9	91.9	91.9	91.9	91.9	91.9	91.9	97.0	102.0	91.9	86.7
80°	45.9	45.9	51.0	51.0	51.0	56.2	51.0	51.0	51.0	56.2	40.8
82.5°	35.7	30.6	30.6	30.6	35.7	30.6	30.6	30.6	30.6	30.6	30.6
85°	15.4	20.3	15.4	10.2	15.4	15.4	20.3	15.4	15.4	15.4	20.3
87.5°	5.1	5.1	0.0	0.0	0.0	5.1	0.0	5.1	5.1	10.2	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°	9610.6	9610.6	9610.6	9610.6	9610.6	9610.6	9610.6	9610.6	9610.6	9610.6	9610.6
2.5°	9636.2	9626.0	9626.0	9620.9	9631.1	9620.9	9626.0	9620.9	9620.9	9631.1	9620.9
5°	9671.9	9677.0	9666.8	9661.7	9677.0	9677.0	9677.0	9666.8	9666.8	9671.9	9666.8
7.5°	9723.0	9733.1	9738.2	9743.3	9753.5	9758.7	9758.7	9753.5	9748.4	9763.8	9743.3
10°	9779.0	9794.4	9824.9	9840.3	9865.8	9865.8	9876.0	9876.0	9865.8	9876.0	9870.9
12.5°	9758.7	9850.4	9901.5	9937.2	9972.9	10003.4	10013.7	10018.8	10013.7	10034.1	10013.7
15°	9794.4	9870.9	9952.5	10013.7	10080.0	10115.7	10125.9	10166.7	10176.9	10182.1	10151.5
17.5°	9738.2	9876.0	9962.6	10054.5	10151.5	10217.7	10278.9	10304.5	10309.6	10319.7	10278.9
20°	9610.6	9763.8	9896.3	10029.0	10141.2	10243.2	10294.3	10365.7	10345.3	10386.1	10330.0
22.5°	9437.3	9610.6	9779.0	9952.5	10069.8	10192.3	10299.4	10350.3	10375.9	10375.9	10314.6
25°	9161.8	9365.9	9549.5	9728.0	9906.6	10054.5	10176.9	10253.4	10268.8	10263.7	10192.3
27.5°	8733.3	8952.6	9166.9	9371.0	9590.3	9763.8	9906.6	9998.3	10023.9	10023.9	9947.4
30°	8141.5	8376.2	8585.4	8830.1	9054.7	9248.5	9447.5	9529.1	9574.9	9574.9	9488.3
32.5°	7437.5	7636.5	7830.4	8070.1	8315.0	8534.3	8723.1	8835.3	8891.4	8886.3	8809.8
35°	6672.4	6769.3	6917.3	7095.8	7315.1	7519.2	7702.8	7810.0	7906.9	7901.7	7830.4
37.5°	5907.2	5881.7	5897.0	5963.3	6101.0	6243.9	6386.7	6488.8	6570.3	6606.1	6590.8
40°	5157.4	5024.7	4897.1	4851.3	4861.4	4912.5	4989.0	5065.5	5157.4	5203.3	5223.6
42.5°	4484.0	4259.5	4035.0	3866.7	3769.8	3739.2	3774.9	3800.3	3856.5	3922.8	3989.2
45°	3943.3	3642.3	3346.4	3086.3	2923.0	2826.0	2805.7	2826.0	2856.7	2923.0	3009.7
47.5°	3499.4	3147.4	2815.9	2525.1	2285.3	2157.9	2122.2	2111.9	2142.5	2203.7	2321.0
50°	3106.6	2754.6	2387.4	2050.6	1800.8	1657.8	1606.9	1586.4	1622.1	1668.1	1775.2
52.5°	2678.1	2331.2	1953.8	1627.3	1367.1	1219.2	1163.1	1132.5	1152.8	1214.1	1321.2
55°	2213.9	1892.5	1550.7	1214.1	964.1	826.4	760.0	739.7	760.0	826.4	933.5
57.5°	1749.7	1479.3	1193.6	877.4	652.9	515.2	448.8	428.5	484.7	510.1	622.3
60°	1367.1	1147.8	902.9	642.8	448.8	341.8	275.5	260.1	285.7	331.5	423.4
62.5°	1025.4	887.6	693.7	459.1	331.5	219.3	183.6	168.4	183.6	219.3	290.8
65°	744.8	637.7	484.7	336.6	224.4	163.3	122.4	112.2	127.6	153.0	214.3
67.5°	510.1	428.5	336.6	234.7	153.0	102.0	86.7	86.7	91.9	112.2	158.1
70°	331.5	280.6	214.3	153.0	102.0	76.5	66.3	56.2	66.3	81.6	107.1
72.5°	209.2	178.5	137.7	107.1	76.5	56.2	45.9	40.8	51.0	61.2	81.6
75°	127.6	97.0	71.4	56.2	40.8	40.8	40.8	20.3	25.5	40.8	51.0
77.5°	76.5	66.3	56.2	45.9	35.7	20.3	20.3	20.3	25.5	30.6	45.9
80°	40.8	35.7	25.5	25.5	20.3	15.4	20.3	15.4	10.2	25.5	30.6
82.5°	25.5	20.3	20.3	20.3	25.5	10.2	15.4	10.2	15.4	20.3	15.4
85°	15.4	15.4	15.4	10.2	25.5	10.2	10.2	5.1	5.1	10.2	10.2
87.5°	0.0	5.1	5.1	0.0	5.1	0.0	5.1	5.1	5.1	5.1	5.1
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°	9610.6	9610.6	9610.6	9610.6	9610.6	9610.6	9610.6	9610.6	9610.6	9610.6	9610.6
2.5°	9626.0	9620.9	9626.0	9620.9	9620.9	9620.9	9626.0	9626.0	9620.9	9620.9	9631.1
5°	9666.8	9666.8	9666.8	9661.7	9656.6	9656.6	9666.8	9666.8	9651.5	9666.8	9666.8
7.5°	9753.5	9738.2	9753.5	9733.1	9723.0	9728.0	9733.1	9723.0	9712.7	9717.9	9717.9
10°	9865.8	9850.4	9850.4	9835.2	9819.8	9809.6	9799.5	9773.9	9748.4	9743.3	9723.0
12.5°	9998.3	9972.9	9957.6	9926.9	9901.5	9865.8	9835.2	9794.4	9743.3	9707.6	9671.9
15°	10131.0	10090.2	10054.5	10003.4	9947.4	9886.1	9819.8	9753.5	9671.9	9600.5	9539.2
17.5°	10238.1	10182.1	10115.7	10034.1	9952.5	9860.6	9763.8	9666.8	9549.5	9457.6	9386.2
20°	10273.8	10192.3	10105.5	9998.3	9891.2	9763.8	9641.3	9513.8	9381.1	9284.2	9202.6
22.5°	10228.0	10131.0	10023.9	9911.7	9768.8	9631.1	9488.3	9340.3	9223.0	9090.4	9013.9
25°	10100.4	9983.1	9865.8	9733.1	9595.4	9442.4	9289.3	9136.3	8993.4	8922.0	8825.1
27.5°	9840.3	9712.7	9585.2	9447.5	9289.3	9136.3	8978.2	8830.1	8707.8	8610.8	8554.8
30°	9381.1	9233.2	9085.3	8937.4	8799.6	8641.4	8493.5	8371.1	8248.6	8172.1	8116.1
32.5°	8677.1	8544.6	8396.6	8253.7	8126.3	7993.6	7871.2	7764.1	7677.3	7626.3	7585.5
35°	7728.4	7595.7	7483.5	7381.5	7274.3	7218.2	7141.7	7080.4	7044.7	7024.4	7019.3
37.5°	6534.6	6458.1	6422.4	6402.1	6381.6	6366.4	6376.5	6402.1	6422.4	6458.1	6498.9
40°	5259.3	5325.6	5346.1	5417.5	5483.8	5570.5	5667.5	5779.7	5871.5	5988.8	6070.4
42.5°	4096.3	4218.7	4361.5	4514.6	4677.8	4836.0	5029.8	5208.3	5371.6	5519.5	5647.0
45°	3147.4	3336.1	3550.5	3769.8	3989.2	4218.7	4453.4	4672.7	4866.5	5024.7	5157.4
47.5°	2453.7	2662.9	2938.3	3208.7	3473.9	3744.3	4004.4	4234.0	4397.2	4550.3	4667.6
50°	1943.5	2183.3	2484.3	2795.4	3086.3	3371.8	3647.3	3861.6	4024.9	4147.3	4234.0
52.5°	1504.8	1790.5	2096.6	2423.1	2734.3	3045.4	3300.4	3499.4	3632.1	3739.2	3805.5
55°	1122.2	1402.8	1729.4	2066.0	2382.3	2683.2	2923.0	3096.5	3213.8	3275.0	3310.7
57.5°	811.1	1066.2	1392.6	1729.4	2014.9	2300.7	2494.5	2652.6	2718.9	2754.6	2770.0
60°	591.8	826.4	1117.1	1407.9	1678.3	1907.8	2076.2	2183.3	2234.4	2254.7	2249.6
62.5°	433.6	637.7	887.6	1132.5	1351.8	1540.5	1673.2	1744.6	1770.2	1780.3	1765.1
65°	331.5	489.7	704.0	892.7	1061.1	1198.8	1295.7	1341.7	1356.9	1351.8	1341.7
67.5°	244.9	367.3	525.5	668.3	790.7	897.8	948.9	989.7	999.8	984.6	969.2
70°	173.5	270.4	382.6	479.6	571.3	632.6	688.6	693.7	693.7	688.6	678.5
72.5°	122.4	188.7	260.1	326.5	382.6	428.5	448.8	464.2	459.1	454.0	443.9
75°	81.6	117.3	188.7	204.1	255.0	270.4	290.8	290.8	295.8	280.6	280.6
77.5°	51.0	81.6	112.2	132.7	153.0	173.5	183.6	183.6	188.7	183.6	183.6
80°	30.6	51.0	61.2	91.9	91.9	107.1	112.2	117.3	107.1	122.4	107.1
82.5°	20.3	30.6	45.9	45.9	56.2	66.3	66.3	71.4	71.4	66.3	66.3
85°	15.4	20.3	25.5	30.6	30.6	35.7	30.6	30.6	35.7	40.8	35.7
87.5°	5.1	10.2	5.1	10.2	10.2	20.3	15.4	15.4	15.4	20.3	20.3
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: P248342

CATALOG NUMBER: LD8B175D010 ER8B175830 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9610.6	9610.6	9610.6	9610.6
2.5°	9620.9	9626.0	9620.9	9620.9
5°	9666.8	9661.7	9666.8	9656.6
7.5°	9702.5	9702.5	9697.4	9697.4
10°	9702.5	9682.2	9682.2	9682.2
12.5°	9626.0	9600.5	9585.2	9574.9
15°	9493.3	9447.5	9427.0	9421.9
17.5°	9319.9	9279.1	9253.7	9238.3
20°	9121.0	9080.2	9049.6	9054.7
22.5°	8947.5	8901.7	8881.2	8871.0
25°	8774.1	8717.9	8702.7	8692.5
27.5°	8493.5	8462.9	8447.6	8432.3
30°	8065.0	8049.7	8024.2	8059.9
32.5°	7570.2	7544.6	7524.3	7539.6
35°	7024.4	7009.0	7024.4	7014.2
37.5°	6524.5	6539.7	6560.2	6570.3
40°	6131.7	6187.7	6208.2	6218.3
42.5°	5738.9	5805.2	5846.0	5871.5
45°	5254.2	5320.5	5366.4	5397.1
47.5°	4754.3	4810.5	4856.3	4851.3
50°	4300.4	4330.9	4351.3	4371.8
52.5°	3841.2	3841.2	3846.3	3846.3
55°	3320.9	3310.7	3305.6	3310.7
57.5°	2749.5	2739.4	2734.3	2718.9
60°	2229.3	2198.7	2178.2	2178.2
62.5°	1744.6	1708.9	1693.7	1688.5
65°	1311.0	1305.9	1275.3	1270.2
67.5°	948.9	928.4	908.1	913.2
70°	668.3	637.7	637.7	627.5
72.5°	433.6	418.3	413.2	413.2
75°	270.4	270.4	260.1	280.6
77.5°	178.5	178.5	173.5	178.5
80°	107.1	107.1	107.1	102.0
82.5°	66.3	71.4	66.3	66.3
85°	35.7	40.8	30.6	45.9
87.5°	20.3	25.5	20.3	25.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)