

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: P248351

Luminaire Tested: **LD8B175D010 ER8B175835 8LBDW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248351  
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 ER8B175835 8LBDW0LI  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19266.0 lumens  
Efficiency: N/A  
Efficacy: 108.7 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

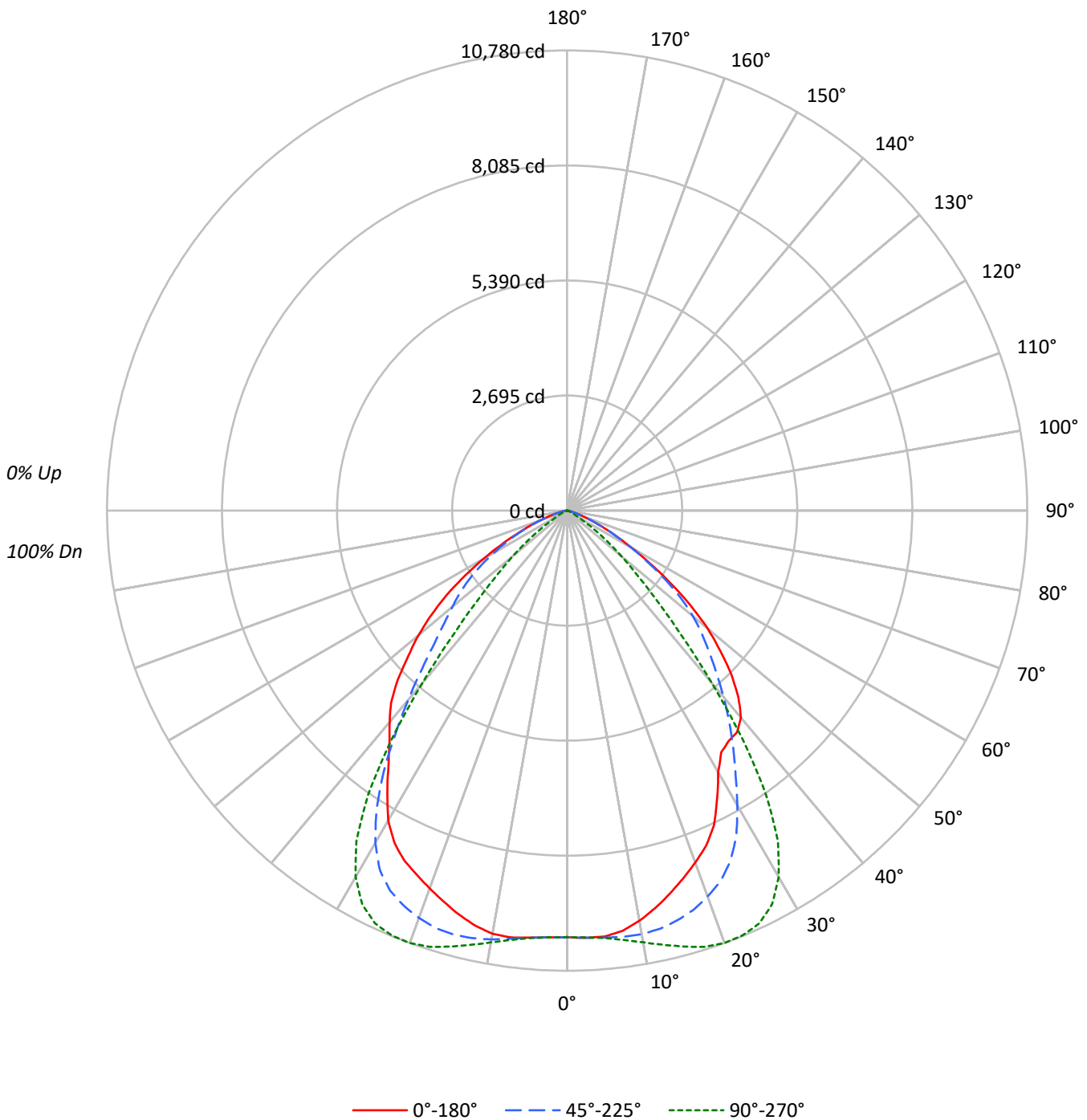
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	308194	308194	308194
5°	310030	311179	310850
10°	305474	321590	315278
15°	296543	337527	312802
20°	287938	353739	309002
25°	276881	362799	307568
30°	251982	352855	298448
35°	248226	305746	274588
40°	254977	212050	260310
45°	237360	128163	244765
50°	205885	79146	218103
55°	158000	41353	185095
60°	107637	16682	139701
65°	66960	8515	96379
70°	36352	5265	58829
75°	18956	2526	34766
80°	8488	2841	18841
85°	5661	1875	16912



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	961.2	5.0
10°-20°	2847.3	14.8
20°-30°	4343.9	22.5
30°-40°	4532.9	23.5
40°-50°	3404.8	17.7
50°-60°	2094.9	10.9
60°-70°	852.6	4.4
70°-80°	200.9	1.0
80°-90°	27.7	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°	8152.3	42.3
0°-40°	12685.2	65.8
0°-60°	18184.9	94.4
0°-90°	19266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19266.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9994	9994	9994	9994	9994	
5°	10016	10042	10053	10042	10042	948
15°	9289	9942	10573	10281	9798	2617
25°	8138	9050	10663	9820	9040	3700
35°	6594	6780	8122	7507	7294	4164
45°	5443	4711	2939	4387	5613	4153
55°	2939	2790	769	2790	3443	2642
65°	918	928	117	1247	1321	957
75°	159	159	21	281	292	192
85°	16	16	5	37	48	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°	9994.5	9994.5	9994.5	9994.5	9994.5	9994.5	9994.5	9994.5	9994.5	9994.5	9994.5
2.5°	10021.1	10005.2	10021.1	10021.1	10026.4	10015.8	10021.1	10026.4	10015.8	10015.8	10015.8
5°	10015.8	10005.2	10015.8	10010.5	10021.1	10021.1	10031.8	10031.8	10042.3	10042.3	10058.3
7.5°	9930.9	9909.8	9930.9	9946.9	9957.4	9978.7	10005.2	10026.4	10047.6	10068.9	10095.4
10°	9755.8	9755.8	9771.8	9803.6	9835.4	9872.5	9920.3	9973.4	10026.4	10074.1	10121.9
12.5°	9538.4	9522.4	9554.2	9596.7	9644.4	9702.8	9777.1	9856.7	9941.6	10037.0	10111.3
15°	9289.0	9273.1	9310.2	9352.6	9411.0	9495.9	9586.2	9692.2	9814.2	9941.6	10063.6
17.5°	9034.4	9029.0	9066.2	9124.6	9172.3	9262.4	9379.2	9506.5	9644.4	9814.2	9973.4
20°	8774.5	8769.2	8806.3	8854.1	8917.7	9002.6	9119.3	9267.7	9432.2	9623.3	9808.9
22.5°	8503.9	8509.2	8541.0	8594.1	8647.2	8737.2	8859.3	9007.9	9188.2	9395.1	9602.0
25°	8137.8	8111.3	8153.8	8206.9	8296.9	8371.2	8488.0	8647.2	8832.8	9050.3	9294.4
27.5°	7607.3	7602.0	7639.2	7686.9	7766.4	7856.6	7984.0	8148.4	8344.7	8583.4	8822.1
30°	7076.8	7087.4	7103.4	7151.2	7204.1	7294.3	7421.7	7559.7	7745.3	7973.3	8228.0
32.5°	6716.1	6716.1	6737.3	6769.1	6806.3	6854.0	6944.3	7045.0	7188.3	7347.4	7533.0
35°	6594.0	6572.9	6594.0	6599.4	6604.7	6615.3	6631.2	6663.1	6710.7	6779.8	6848.7
37.5°	6541.1	6525.1	6525.1	6504.0	6477.4	6445.5	6403.1	6355.3	6302.4	6233.3	6180.4
40°	6334.2	6323.5	6312.9	6291.7	6233.3	6169.7	6100.7	5989.3	5867.3	5697.5	5527.8
42.5°	5936.3	5925.7	5920.4	5877.9	5824.8	5750.6	5671.0	5554.3	5400.5	5182.9	4938.9
45°	5442.9	5421.7	5405.8	5368.7	5331.4	5267.8	5193.6	5087.4	4933.6	4710.8	4419.0
47.5°	4870.0	4859.3	4854.0	4838.2	4801.1	4763.8	4716.2	4631.3	4493.3	4281.1	3978.8
50°	4291.7	4270.5	4281.1	4275.9	4259.9	4233.4	4201.5	4143.2	4037.0	3846.1	3570.3
52.5°	3628.5	3628.5	3623.3	3639.2	3644.5	3639.2	3644.5	3580.9	3490.7	3347.4	3114.0
55°	2938.9	2938.9	2954.9	2976.1	2997.3	3002.6	2997.3	2970.8	2907.1	2790.4	2583.5
57.5°	2291.7	2281.2	2313.0	2344.8	2366.1	2387.2	2371.3	2350.1	2313.0	2217.4	2058.3
60°	1745.3	1745.3	1766.5	1787.8	1809.0	1830.2	1824.9	1819.6	1787.8	1724.1	1596.8
62.5°	1283.8	1289.1	1289.1	1305.0	1326.2	1347.5	1363.3	1347.5	1331.5	1289.1	1204.2
65°	917.7	912.4	917.7	933.7	949.6	970.8	981.4	976.1	960.2	928.4	864.8
67.5°	615.4	610.1	631.2	636.6	647.2	668.5	663.2	668.5	663.2	636.6	583.6
70°	403.2	392.5	403.2	397.9	413.8	419.1	429.7	435.0	429.7	413.8	397.9
72.5°	249.4	244.0	249.4	254.7	260.0	265.2	275.8	275.8	270.5	260.0	238.7
75°	159.1	143.2	148.5	138.0	148.5	148.5	159.1	164.5	159.1	159.1	148.5
77.5°	95.5	95.5	95.5	95.5	95.5	95.5	95.5	100.9	106.1	95.5	90.2
80°	47.8	47.8	53.1	53.1	53.1	58.4	53.1	53.1	53.1	58.4	42.4
82.5°	37.1	31.8	31.8	31.8	37.1	31.8	31.8	31.8	31.8	31.8	31.8
85°	16.0	21.2	16.0	10.6	16.0	16.0	21.2	16.0	16.0	16.0	21.2
87.5°	5.3	5.3	0.0	0.0	0.0	5.3	0.0	5.3	5.3	10.6	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°	9994.5	9994.5	9994.5	9994.5	9994.5	9994.5	9994.5	9994.5	9994.5	9994.5	9994.5
2.5°	10021.1	10010.5	10010.5	10005.2	10015.8	10005.2	10010.5	10005.2	10005.2	10015.8	10005.2
5°	10058.3	10063.6	10052.9	10047.6	10063.6	10063.6	10063.6	10052.9	10052.9	10058.3	10052.9
7.5°	10111.3	10121.9	10127.2	10132.5	10143.1	10148.5	10148.5	10143.1	10137.8	10153.8	10132.5
10°	10169.6	10185.6	10217.4	10233.4	10259.8	10259.8	10270.5	10270.5	10259.8	10270.5	10265.2
12.5°	10148.5	10243.9	10297.0	10334.1	10371.2	10403.0	10413.7	10419.0	10413.7	10434.9	10413.7
15°	10185.6	10265.2	10350.1	10413.7	10482.6	10519.7	10530.4	10572.8	10583.4	10588.8	10557.0
17.5°	10127.2	10270.5	10360.6	10456.1	10557.0	10625.9	10689.5	10716.1	10721.4	10731.9	10689.5
20°	9994.5	10153.8	10291.6	10429.6	10546.3	10652.4	10705.5	10779.7	10758.5	10801.0	10742.6
22.5°	9814.2	9994.5	10169.6	10350.1	10472.1	10599.4	10710.8	10763.7	10790.3	10790.3	10726.6
25°	9527.7	9740.0	9930.9	10116.5	10302.3	10456.1	10583.4	10663.0	10679.0	10673.7	10599.4
27.5°	9082.1	9310.2	9533.1	9745.3	9973.4	10153.8	10302.3	10397.7	10424.3	10424.3	10344.7
30°	8466.7	8710.8	8928.3	9182.9	9416.4	9618.0	9824.9	9909.8	9957.4	9957.4	9867.3
32.5°	7734.6	7941.5	8143.1	8392.5	8647.2	8875.2	9071.5	9188.2	9246.6	9241.3	9161.7
35°	6938.9	7039.7	7193.6	7379.2	7607.3	7819.5	8010.5	8122.0	8222.7	8217.4	8143.1
37.5°	6143.1	6116.6	6132.6	6201.5	6344.7	6493.3	6641.8	6748.0	6832.8	6870.0	6854.0
40°	5363.4	5225.4	5092.7	5045.1	5055.6	5108.7	5188.3	5267.8	5363.4	5411.1	5432.3
42.5°	4663.1	4429.7	4196.2	4021.2	3920.3	3888.5	3925.7	3952.1	4010.6	4079.5	4148.5
45°	4100.8	3787.8	3480.0	3209.5	3039.8	2938.9	2917.7	2938.9	2970.8	3039.8	3130.0
47.5°	3639.2	3273.1	2928.4	2625.9	2376.6	2244.0	2206.9	2196.3	2228.1	2291.7	2413.7
50°	3230.7	2864.6	2482.8	2132.6	1872.7	1724.1	1671.1	1649.8	1686.9	1734.7	1846.1
52.5°	2785.1	2424.4	2031.8	1692.3	1421.7	1267.9	1209.5	1177.7	1198.9	1262.6	1374.0
55°	2302.3	1968.1	1612.7	1262.6	1002.6	859.4	790.4	769.2	790.4	859.4	970.8
57.5°	1819.6	1538.4	1241.3	912.4	679.0	535.8	466.8	445.6	504.0	530.5	647.2
60°	1421.7	1193.7	939.0	668.5	466.8	355.4	286.5	270.5	297.1	344.8	440.3
62.5°	1066.3	923.0	721.5	477.4	344.8	228.1	190.9	175.1	190.9	228.1	302.4
65°	774.5	663.2	504.0	350.1	233.4	169.8	127.3	116.7	132.7	159.1	222.9
67.5°	530.5	445.6	350.1	244.0	159.1	106.1	90.2	90.2	95.5	116.7	164.5
70°	344.8	291.8	222.9	159.1	106.1	79.6	68.9	58.4	68.9	84.9	111.4
72.5°	217.5	185.6	143.2	111.4	79.6	58.4	47.8	42.4	53.1	63.6	84.9
75°	132.7	100.9	74.2	58.4	42.4	42.4	42.4	21.2	26.5	42.4	53.1
77.5°	79.6	68.9	58.4	47.8	37.1	21.2	21.2	21.2	26.5	31.8	47.8
80°	42.4	37.1	26.5	26.5	21.2	16.0	21.2	16.0	10.6	26.5	31.8
82.5°	26.5	21.2	21.2	21.2	26.5	10.6	16.0	10.6	16.0	21.2	16.0
85°	16.0	16.0	16.0	10.6	26.5	10.6	10.6	5.3	5.3	10.6	10.6
87.5°	0.0	5.3	5.3	0.0	5.3	0.0	5.3	5.3	5.3	5.3	5.3
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°	9994.5	9994.5	9994.5	9994.5	9994.5	9994.5	9994.5	9994.5	9994.5	9994.5	9994.5
2.5°	10010.5	10005.2	10010.5	10005.2	10005.2	10005.2	10010.5	10010.5	10005.2	10005.2	10015.8
5°	10052.9	10052.9	10052.9	10047.6	10042.3	10042.3	10052.9	10052.9	10037.0	10052.9	10052.9
7.5°	10143.1	10127.2	10143.1	10121.9	10111.3	10116.5	10121.9	10111.3	10100.7	10106.0	10106.0
10°	10259.8	10243.9	10243.9	10228.0	10212.1	10201.4	10190.9	10164.3	10137.8	10132.5	10111.3
12.5°	10397.7	10371.2	10355.4	10323.4	10297.0	10259.8	10228.0	10185.6	10132.5	10095.4	10058.3
15°	10535.7	10493.2	10456.1	10403.0	10344.7	10281.0	10212.1	10143.1	10058.3	9984.0	9920.3
17.5°	10647.0	10588.8	10519.7	10434.9	10350.1	10254.5	10153.8	10052.9	9930.9	9835.4	9761.1
20°	10684.2	10599.4	10509.2	10397.7	10286.3	10153.8	10026.4	9893.8	9755.8	9655.1	9570.2
22.5°	10636.5	10535.7	10424.3	10307.6	10159.0	10015.8	9867.3	9713.4	9591.4	9453.5	9373.9
25°	10503.9	10381.9	10259.8	10121.9	9978.7	9819.5	9660.4	9501.3	9352.6	9278.4	9177.7
27.5°	10233.4	10100.7	9968.0	9824.9	9660.4	9501.3	9336.8	9182.9	9055.6	8954.8	8896.5
30°	9755.8	9602.0	9448.2	9294.4	9151.1	8986.6	8832.8	8705.4	8578.1	8498.5	8440.2
32.5°	9023.7	8885.9	8732.0	8583.4	8450.9	8312.9	8185.6	8074.2	7984.0	7930.9	7888.5
35°	8037.1	7899.1	7782.4	7676.3	7564.9	7506.6	7427.0	7363.3	7326.1	7305.0	7299.7
37.5°	6795.6	6716.1	6678.9	6657.8	6636.5	6620.7	6631.2	6657.8	6678.9	6716.1	6758.5
40°	5469.4	5538.4	5559.6	5633.9	5702.8	5793.0	5893.9	6010.6	6106.0	6228.0	6312.9
42.5°	4259.9	4387.2	4535.7	4694.9	4864.7	5029.1	5230.7	5416.3	5586.1	5739.9	5872.6
45°	3273.1	3469.4	3692.3	3920.3	4148.5	4387.2	4631.3	4859.3	5060.9	5225.4	5363.4
47.5°	2551.7	2769.2	3055.7	3336.9	3612.7	3893.9	4164.4	4403.1	4572.9	4732.0	4854.0
50°	2021.2	2270.5	2583.5	2907.1	3209.5	3506.5	3793.0	4015.9	4185.7	4313.0	4403.1
52.5°	1564.9	1862.0	2180.3	2519.9	2843.5	3167.1	3432.3	3639.2	3777.2	3888.5	3957.5
55°	1167.1	1458.9	1798.4	2148.5	2477.4	2790.4	3039.8	3220.2	3342.2	3405.8	3442.9
57.5°	843.5	1108.8	1448.2	1798.4	2095.4	2392.5	2594.1	2758.6	2827.5	2864.6	2880.6
60°	615.4	859.4	1161.7	1464.2	1745.3	1984.1	2159.2	2270.5	2323.6	2344.8	2339.5
62.5°	450.9	663.2	923.0	1177.7	1405.8	1602.0	1740.0	1814.3	1840.9	1851.4	1835.6
65°	344.8	509.2	732.1	928.4	1103.5	1246.6	1347.5	1395.3	1411.1	1405.8	1395.3
67.5°	254.7	382.0	546.5	695.0	822.3	933.7	986.8	1029.2	1039.7	1023.9	1007.9
70°	180.4	281.2	397.9	498.7	594.1	657.8	716.1	721.5	721.5	716.1	705.6
72.5°	127.3	196.3	270.5	339.6	397.9	445.6	466.8	482.7	477.4	472.1	461.6
75°	84.9	122.0	196.3	212.2	265.2	281.2	302.4	302.4	307.6	291.8	291.8
77.5°	53.1	84.9	116.7	138.0	159.1	180.4	190.9	190.9	196.3	190.9	190.9
80°	31.8	53.1	63.6	95.5	95.5	111.4	116.7	122.0	111.4	127.3	111.4
82.5°	21.2	31.8	47.8	47.8	58.4	68.9	68.9	74.2	74.2	68.9	68.9
85°	16.0	21.2	26.5	31.8	31.8	37.1	31.8	31.8	37.1	42.4	37.1
87.5°	5.3	10.6	5.3	10.6	10.6	21.2	16.0	16.0	16.0	21.2	21.2
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: P248351

CATALOG NUMBER: LD8B175D010 ER8B175835 8LBDW0LI

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	9994.5	9994.5	9994.5	9994.5
2.5°	10005.2	10010.5	10005.2	10005.2
5°	10052.9	10047.6	10052.9	10042.3
7.5°	10090.1	10090.1	10084.7	10084.7
10°	10090.1	10068.9	10068.9	10068.9
12.5°	10010.5	9984.0	9968.0	9957.4
15°	9872.5	9824.9	9803.6	9798.3
17.5°	9692.2	9649.8	9623.3	9607.3
20°	9485.3	9442.9	9411.0	9416.4
22.5°	9304.9	9257.2	9235.9	9225.3
25°	9124.6	9066.2	9050.3	9039.7
27.5°	8832.8	8801.0	8785.0	8769.2
30°	8387.2	8371.2	8344.7	8381.8
32.5°	7872.6	7846.0	7824.8	7840.8
35°	7305.0	7289.0	7305.0	7294.3
37.5°	6785.1	6801.0	6822.2	6832.8
40°	6376.6	6434.9	6456.2	6466.7
42.5°	5968.1	6037.1	6079.5	6106.0
45°	5464.1	5533.0	5580.8	5612.7
47.5°	4944.2	5002.6	5050.3	5045.1
50°	4472.1	4503.9	4525.1	4546.4
52.5°	3994.6	3994.6	3999.9	3999.9
55°	3453.6	3442.9	3437.6	3442.9
57.5°	2859.3	2848.8	2843.5	2827.5
60°	2318.3	2286.5	2265.2	2265.2
62.5°	1814.3	1777.1	1761.3	1756.0
65°	1363.3	1358.0	1326.2	1320.9
67.5°	986.8	965.5	944.3	949.6
70°	695.0	663.2	663.2	652.5
72.5°	450.9	435.0	429.7	429.7
75°	281.2	281.2	270.5	291.8
77.5°	185.6	185.6	180.4	185.6
80°	111.4	111.4	111.4	106.1
82.5°	68.9	74.2	68.9	68.9
85°	37.1	42.4	31.8	47.8
87.5°	21.2	26.5	21.2	26.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)