

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: P249215

Luminaire Tested: **LD8B175D010 ER8B175835 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249215
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 ER8B175835 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18494.0 lumens
Efficiency: N/A
Efficacy: 104.4 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

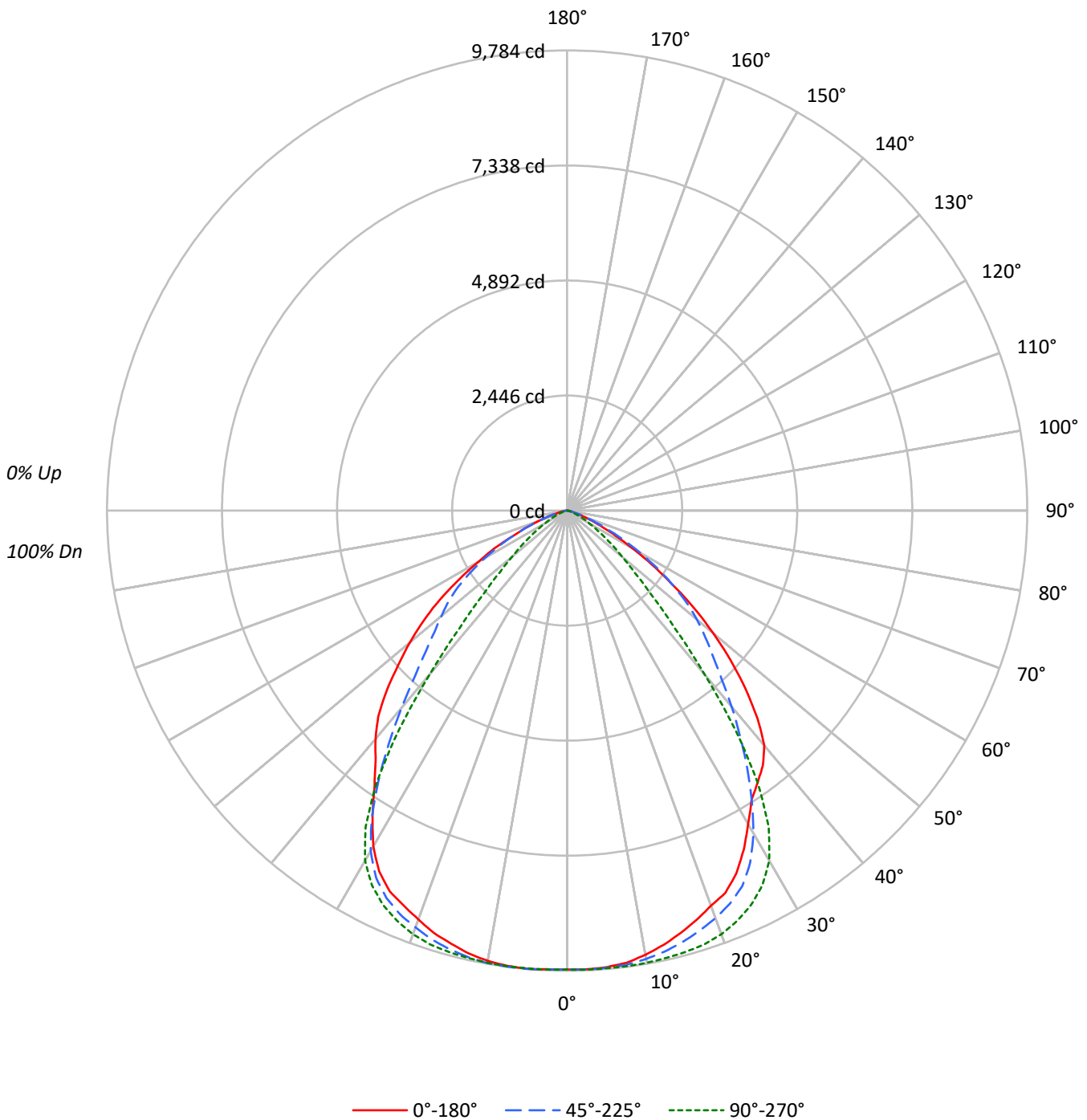
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249215

CATALOG NUMBER: LD8B175D010 ER8B175835 8LBDW0WMH

Luminous Intensity Polar Plot





TEST NUMBER: P249215

CATALOG NUMBER: LD8B175D010 ER8B175835 8LBDW0WMH

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°	300895	300895	300895
5°	301555	302369	302694
10°	300288	305702	304387
15°	296961	310171	304320
20°	293395	314532	303535
25°	289586	314893	303845
30°	273965	306040	293545
35°	265787	265979	268742
40°	262492	183007	255117
45°	233893	109864	237090
50°	194482	73120	209560
55°	145860	50407	177676
60°	98843	33593	134058
65°	59620	21787	92096
70°	33061	11811	56665
75°	14976	4992	29333
80°	13017	5576	20457
85°	14825	7395	20415



TEST NUMBER: P249215

CATALOG NUMBER: LD8B175D010 ER8B175835 8LBDW0WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	931.2	5.0
10°-20°	2704.5	14.6
20°-30°	4104.9	22.2
30°-40°	4311.3	23.3
40°-50°	3232.4	17.5
50°-60°	2073.9	11.2
60°-70°	887.2	4.8
70°-80°	209.6	1.1
80°-90°	39.0	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°	7740.6	41.9
0°-40°	12051.9	65.2
0°-60°	17358.2	93.9
0°-90°	18494.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18494.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9758	9758	9758	9758	9758	
5°	9742	9758	9768	9784	9779	925
15°	9302	9496	9716	9653	9533	2624
25°	8511	8810	9255	9087	8930	3888
35°	7060	6668	7066	6982	7139	4431
45°	5363	4384	2519	4258	5437	4107
55°	2713	2713	938	2828	3305	2461
65°	817	964	299	1241	1262	872
75°	126	147	42	251	246	183
85°	42	26	21	42	58	44
90°	0	0	0	0	0	



TEST NUMBER: P249215

CATALOG NUMBER: LD8B175D010 ER8B175835 8LBDW0WMH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	9757.8	9757.8	9757.8	9757.8	9757.8	9757.8	9757.8	9757.8	9757.8	9757.8	9757.8
2.5°	9763.1	9773.6	9768.3	9768.3	9763.1	9768.3	9768.3	9778.8	9778.8	9768.3	9763.1
5°	9742.0	9752.5	9752.5	9742.0	9742.0	9768.3	9752.5	9763.1	9763.1	9757.8	9757.8
7.5°	9695.0	9695.0	9715.9	9700.3	9700.3	9715.9	9710.6	9721.1	9731.7	9736.9	9736.9
10°	9590.2	9600.7	9605.9	9605.9	9611.2	9626.8	9637.3	9658.3	9668.7	9679.2	9684.5
12.5°	9459.3	9475.0	9480.2	9475.0	9490.7	9511.6	9537.9	9564.0	9579.8	9600.7	9616.4
15°	9302.1	9302.1	9312.6	9328.3	9338.8	9370.2	9396.4	9427.8	9469.7	9496.0	9522.1
17.5°	9129.3	9139.8	9155.5	9155.5	9176.5	9228.8	9244.5	9291.7	9338.8	9365.0	9417.4
20°	8940.8	8951.2	8966.9	8977.4	9003.6	9045.5	9076.9	9118.8	9171.2	9218.4	9270.7
22.5°	8794.1	8773.2	8783.5	8794.1	8820.3	8857.0	8893.6	8945.9	8998.3	9045.5	9097.9
25°	8511.2	8516.5	8532.2	8542.6	8574.1	8605.5	8647.4	8710.2	8757.4	8809.8	8867.4
27.5°	8128.9	8134.2	8160.3	8160.3	8186.5	8238.9	8265.0	8317.4	8380.4	8432.6	8500.8
30°	7694.2	7704.6	7704.6	7725.6	7741.2	7767.5	7793.7	7846.1	7877.5	7924.6	8019.0
32.5°	7296.1	7306.5	7301.3	7296.1	7280.4	7275.1	7269.9	7280.4	7290.9	7306.5	7343.2
35°	7060.5	7034.2	7013.3	6976.6	6934.7	6882.3	6835.2	6772.4	6714.7	6667.5	6615.2
37.5°	6835.2	6829.9	6798.5	6746.1	6662.3	6568.1	6458.1	6321.9	6185.7	6039.0	5897.7
40°	6520.9	6505.2	6479.0	6405.7	6311.4	6196.2	6049.6	5881.9	5661.9	5436.7	5206.3
42.5°	5986.6	5991.9	5960.5	5902.8	5813.9	5703.8	5551.9	5368.7	5133.0	4865.8	4567.3
45°	5363.4	5363.4	5352.9	5305.7	5242.9	5153.9	5038.6	4886.8	4656.4	4383.9	4064.4
47.5°	4713.9	4719.2	4703.4	4693.0	4666.7	4609.2	4525.4	4410.2	4247.8	3985.8	3666.3
50°	4054.0	4054.0	4080.2	4074.9	4074.9	4054.0	4017.4	3949.2	3807.8	3598.3	3299.8
52.5°	3394.0	3404.5	3420.3	3441.2	3467.3	3509.2	3467.3	3435.9	3346.8	3184.5	2927.9
55°	2713.1	2723.6	2749.8	2786.4	2817.9	2859.8	2870.2	2870.2	2823.1	2713.1	2519.3
57.5°	2131.8	2116.0	2137.0	2168.4	2210.3	2252.2	2283.6	2320.3	2315.0	2241.7	2084.6
60°	1602.7	1608.0	1623.6	1655.2	1686.6	1723.2	1765.1	1796.5	1812.3	1775.6	1676.0
62.5°	1168.0	1168.0	1188.9	1220.3	1236.1	1288.5	1314.6	1330.4	1346.0	1340.8	1278.0
65°	817.1	827.5	838.0	853.8	869.4	900.8	916.6	948.0	958.5	963.7	916.6
67.5°	576.2	560.4	570.9	581.3	597.1	618.1	649.5	649.5	665.1	665.1	633.7
70°	366.7	366.7	371.9	387.6	398.1	403.3	413.8	424.2	440.0	434.7	434.7
72.5°	246.2	240.9	246.2	251.4	256.7	272.3	272.3	277.6	288.1	293.4	272.3
75°	125.7	131.0	141.4	136.2	151.9	141.4	146.6	162.4	157.1	146.6	146.6
77.5°	104.7	104.7	104.7	99.6	110.0	110.0	104.7	115.2	110.0	110.0	104.7
80°	73.3	78.6	73.3	68.1	73.3	68.1	68.1	68.1	68.1	68.1	62.8
82.5°	57.7	47.2	52.4	47.2	52.4	52.4	47.2	41.9	41.9	47.2	41.9
85°	41.9	31.4	36.7	36.7	31.4	31.4	31.4	31.4	31.4	26.1	26.1
87.5°	26.1	15.8	15.8	15.8	20.9	20.9	20.9	15.8	20.9	20.9	10.5
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: P249215

CATALOG NUMBER: LD8B175D010 ER8B175835 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9757.8	9757.8	9757.8	9757.8	9757.8	9757.8	9757.8	9757.8	9757.8	9757.8	9757.8
2.5°	9773.6	9768.3	9778.8	9773.6	9773.6	9768.3	9773.6	9768.3	9778.8	9757.8	9763.1
5°	9773.6	9763.1	9768.3	9773.6	9778.8	9768.3	9768.3	9768.3	9778.8	9768.3	9773.6
7.5°	9752.5	9747.3	9763.1	9773.6	9768.3	9763.1	9773.6	9768.3	9778.8	9773.6	9783.9
10°	9710.6	9715.9	9726.4	9742.0	9747.3	9752.5	9763.1	9763.1	9778.8	9757.8	9768.3
12.5°	9647.8	9668.7	9695.0	9705.4	9726.4	9726.4	9736.9	9742.0	9752.5	9747.3	9763.1
15°	9569.3	9595.4	9626.8	9653.1	9679.2	9695.0	9710.6	9715.9	9731.7	9715.9	9721.1
17.5°	9475.0	9506.4	9553.5	9584.9	9626.8	9642.6	9663.5	9674.0	9689.7	9679.2	9684.5
20°	9344.0	9380.8	9433.0	9480.2	9506.4	9543.0	9569.3	9584.9	9595.4	9584.9	9590.2
22.5°	9160.7	9213.1	9281.2	9317.8	9370.2	9401.6	9406.9	9443.6	9469.7	9443.6	9454.1
25°	8945.9	8998.3	9050.8	9129.3	9176.5	9213.1	9249.8	9255.0	9281.2	9275.9	9270.7
27.5°	8589.8	8657.9	8746.9	8809.8	8872.6	8930.3	8972.2	8982.6	9008.8	8998.3	9003.6
30°	8102.6	8176.1	8259.9	8359.3	8448.4	8506.0	8558.4	8595.0	8621.2	8605.5	8600.3
32.5°	7411.4	7484.7	7573.7	7673.2	7778.0	7861.7	7924.6	7971.8	8003.2	7992.7	7966.5
35°	6620.5	6641.4	6699.1	6777.6	6866.6	6955.6	7013.3	7065.6	7102.2	7112.8	7112.8
37.5°	5808.6	5740.6	5698.7	5698.7	5750.9	5787.6	5840.0	5871.4	5929.1	5950.0	5965.7
40°	5022.9	4865.8	4719.2	4609.2	4535.9	4530.6	4530.6	4546.3	4598.7	4666.7	4729.7
42.5°	4321.1	4069.6	3844.5	3640.2	3493.6	3409.8	3373.1	3378.4	3420.3	3483.1	3587.8
45°	3760.7	3446.4	3163.6	2917.4	2718.4	2587.4	2524.6	2519.3	2550.7	2624.0	2739.4
47.5°	3325.9	2990.7	2671.2	2388.3	2173.7	2032.2	1958.9	1938.0	1958.9	2026.9	2163.2
50°	2964.5	2618.9	2288.9	1995.5	1765.1	1618.5	1550.3	1524.2	1550.3	1608.0	1744.1
52.5°	2629.3	2273.1	1964.1	1681.3	1435.1	1309.4	1236.1	1220.3	1236.1	1304.1	1414.2
55°	2241.7	1938.0	1634.1	1351.3	1136.6	1010.9	953.2	937.6	953.2	1016.2	1131.4
57.5°	1859.4	1597.5	1330.4	1073.7	890.4	780.4	728.1	707.0	743.7	785.6	921.8
60°	1503.2	1293.7	1068.5	843.3	691.4	591.8	549.9	544.7	555.2	607.6	701.8
62.5°	1178.5	1005.7	827.5	644.2	518.5	476.6	424.2	419.1	429.5	460.9	534.3
65°	848.5	738.6	602.3	471.4	371.9	314.2	293.4	298.6	309.0	330.0	398.1
67.5°	591.8	513.3	419.1	330.0	256.7	230.4	209.5	204.3	209.5	246.2	282.8
70°	398.1	350.9	282.8	251.4	178.1	141.4	146.6	131.0	151.9	151.9	183.3
72.5°	261.8	230.4	188.5	146.6	125.7	99.6	99.6	94.3	104.7	110.0	136.2
75°	136.2	104.7	104.7	73.3	52.4	26.1	47.2	41.9	36.7	41.9	52.4
77.5°	94.3	78.6	73.3	57.7	52.4	41.9	41.9	41.9	41.9	47.2	52.4
80°	57.7	57.7	41.9	36.7	31.4	26.1	31.4	31.4	31.4	31.4	36.7
82.5°	36.7	31.4	31.4	26.1	26.1	20.9	20.9	20.9	20.9	20.9	31.4
85°	31.4	20.9	20.9	15.8	20.9	36.7	15.8	20.9	20.9	20.9	15.8
87.5°	10.5	15.8	15.8	15.8	10.5	5.3	10.5	15.8	15.8	26.1	20.9
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: P249215

CATALOG NUMBER: LD8B175D010 ER8B175835 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9757.8	9757.8	9757.8	9757.8	9757.8	9757.8	9757.8	9757.8	9757.8	9757.8	9757.8
2.5°	9773.6	9778.8	9778.8	9773.6	9773.6	9763.1	9783.9	9768.3	9773.6	9794.5	9778.8
5°	9783.9	9789.2	9789.2	9783.9	9783.9	9783.9	9789.2	9789.2	9783.9	9778.8	9789.2
7.5°	9805.0	9799.7	9799.7	9789.2	9789.2	9778.8	9789.2	9773.6	9783.9	9773.6	9789.2
10°	9778.8	9783.9	9778.8	9773.6	9773.6	9768.3	9768.3	9752.5	9757.8	9742.0	9752.5
12.5°	9763.1	9757.8	9757.8	9747.3	9736.9	9726.4	9721.1	9705.4	9705.4	9668.7	9684.5
15°	9721.1	9726.4	9710.6	9689.7	9679.2	9653.1	9642.6	9621.6	9600.7	9574.5	9579.8
17.5°	9684.5	9668.7	9647.8	9626.8	9584.9	9564.0	9543.0	9511.6	9501.1	9469.7	9459.3
20°	9574.5	9564.0	9537.9	9501.1	9475.0	9427.8	9406.9	9375.5	9349.2	9317.8	9302.1
22.5°	9433.0	9422.5	9391.1	9354.5	9312.6	9291.7	9270.7	9213.1	9186.9	9155.5	9150.2
25°	9255.0	9239.3	9207.9	9166.0	9145.0	9087.4	9066.4	9024.5	9014.1	8982.6	8977.4
27.5°	8982.6	8961.7	8925.0	8872.6	8836.0	8799.3	8778.4	8746.9	8736.5	8705.0	8699.9
30°	8574.1	8547.9	8474.6	8453.7	8390.7	8354.1	8354.1	8312.2	8317.4	8296.5	8296.5
32.5°	7929.9	7888.0	7830.3	7788.4	7746.5	7725.6	7725.6	7709.8	7720.3	7720.3	7730.9
35°	7076.1	7018.6	6987.0	6960.9	6960.9	6981.8	7044.7	7060.5	7091.9	7118.0	7139.0
37.5°	5981.4	5976.2	6012.9	6044.3	6122.9	6211.9	6321.9	6416.2	6505.2	6568.1	6630.9
40°	4797.7	4928.7	5033.4	5180.1	5300.5	5473.4	5672.4	5834.8	5986.6	6096.7	6211.9
42.5°	3744.9	3912.5	4132.6	4347.2	4562.0	4797.7	5059.7	5284.8	5483.9	5635.7	5756.2
45°	2917.4	3147.8	3415.0	3687.4	3964.9	4258.3	4530.6	4761.1	4970.6	5127.7	5248.2
47.5°	2351.7	2603.1	2906.9	3205.5	3519.7	3828.7	4132.6	4331.6	4504.4	4630.1	4740.2
50°	1943.1	2210.3	2529.8	2870.2	3184.5	3493.6	3755.4	3949.2	4090.7	4200.6	4268.7
52.5°	1623.6	1906.5	2247.0	2587.4	2901.6	3184.5	3420.3	3566.9	3682.1	3760.7	3823.5
55°	1340.8	1613.2	1932.7	2252.2	2561.2	2828.3	3022.1	3132.2	3221.1	3268.3	3304.9
57.5°	1094.7	1346.0	1639.4	1932.7	2199.8	2419.9	2571.7	2681.7	2723.6	2760.3	2755.0
60°	859.0	1094.7	1361.8	1613.2	1843.7	2021.7	2131.8	2194.6	2226.0	2241.7	2231.2
62.5°	675.6	890.4	1094.7	1314.6	1482.3	1634.1	1739.0	1739.0	1754.6	1759.9	1775.6
65°	502.8	665.1	843.3	1005.7	1141.8	1241.3	1299.0	1314.6	1335.7	1330.4	1319.9
67.5°	371.9	492.4	623.2	743.7	838.0	900.8	942.7	979.5	974.3	963.7	958.5
70°	256.7	335.3	450.5	523.8	591.8	654.8	665.1	670.4	675.6	680.9	670.4
72.5°	178.1	235.7	298.6	361.4	403.3	429.5	455.7	460.9	460.9	460.9	455.7
75°	89.1	120.5	178.1	204.3	240.9	251.4	272.3	272.3	288.1	267.1	261.8
77.5°	78.6	94.3	125.7	146.6	162.4	178.1	183.3	199.0	193.8	183.3	188.5
80°	47.2	57.7	78.6	89.1	110.0	115.2	120.5	125.7	120.5	125.7	125.7
82.5°	36.7	41.9	52.4	52.4	68.1	68.1	73.3	73.3	78.6	78.6	78.6
85°	20.9	36.7	31.4	62.8	41.9	41.9	52.4	62.8	52.4	52.4	62.8
87.5°	20.9	20.9	15.8	20.9	20.9	20.9	26.1	31.4	31.4	36.7	31.4
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: P249215

CATALOG NUMBER: LD8B175D010 ER8B175835 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9757.8	9757.8	9757.8	9757.8
2.5°	9773.6	9783.9	9768.3	9763.1
5°	9789.2	9789.2	9778.8	9778.8
7.5°	9789.2	9789.2	9773.6	9763.1
10°	9747.3	9747.3	9731.7	9721.1
12.5°	9668.7	9668.7	9663.5	9647.8
15°	9569.3	9569.3	9548.3	9532.6
17.5°	9433.0	9443.6	9417.4	9417.4
20°	9286.4	9281.2	9260.3	9249.8
22.5°	9134.6	9124.1	9118.8	9087.4
25°	8972.2	8961.7	8945.9	8930.3
27.5°	8694.6	8689.3	8673.6	8652.7
30°	8270.3	8265.0	8244.1	8244.1
32.5°	7720.3	7715.1	7694.2	7699.5
35°	7149.4	7170.4	7159.9	7139.0
37.5°	6672.8	6688.5	6699.1	6688.5
40°	6274.7	6321.9	6327.1	6337.7
42.5°	5850.5	5913.3	5934.3	5944.7
45°	5342.4	5400.1	5447.2	5436.7
47.5°	4823.9	4865.8	4907.7	4876.3
50°	4326.3	4352.5	4368.3	4368.3
52.5°	3855.0	3855.0	3849.7	3855.0
55°	3315.4	3315.4	3294.5	3304.9
57.5°	2749.8	2760.3	2744.5	2718.4
60°	2226.0	2199.8	2189.3	2173.7
62.5°	1733.7	1733.7	1697.1	1744.1
65°	1299.0	1283.2	1267.5	1262.2
67.5°	942.7	937.6	921.8	916.6
70°	665.1	644.2	639.0	628.5
72.5°	445.2	445.2	434.7	434.7
75°	272.3	246.2	240.9	246.2
77.5°	188.5	183.3	183.3	178.1
80°	125.7	120.5	131.0	115.2
82.5°	78.6	83.8	78.6	83.8
85°	52.4	62.8	57.7	57.7
87.5°	31.4	31.4	31.4	31.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)