

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: P248522

Luminaire Tested: **LD8B175D010 ER8B175950 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248522
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 ER8B175950 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17276.0 lumens
Efficiency: N/A
Efficacy: 97.5 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

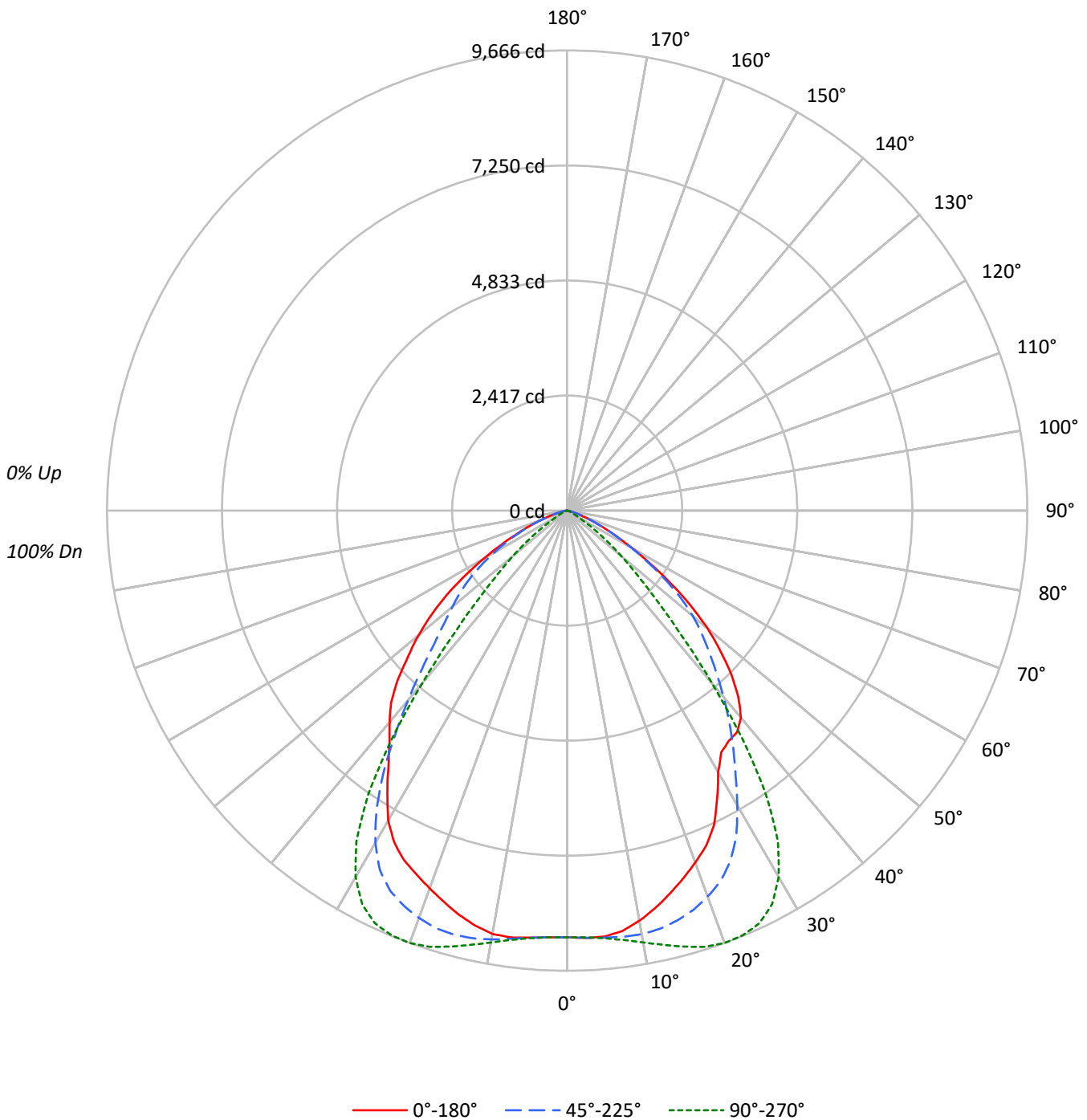
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248522

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBDW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P248522

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBDW0WH

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°	276361	276361	276361
5°	278008	279039	278742
10°	273921	288371	282713
15°	265915	302663	280492
20°	258198	317203	277083
25°	248281	325325	275799
30°	225953	316408	267624
35°	222586	274163	246227
40°	228638	190148	233425
45°	212843	114923	219485
50°	184618	70971	195575
55°	141678	37085	165978
60°	96524	14962	125269
65°	60043	7632	86427
70°	32593	4724	52752
75°	17002	2264	31180
80°	7600	2539	16888
85°	5059	1698	15143



TEST NUMBER: P248522

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBDW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	861.9	5.0
10°-20°	2553.2	14.8
20°-30°	3895.2	22.5
30°-40°	4064.7	23.5
40°-50°	3053.1	17.7
50°-60°	1878.5	10.9
60°-70°	764.5	4.4
70°-80°	180.1	1.0
80°-90°	24.8	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°	7310.3	42.3
0°-40°	11375.0	65.8
0°-60°	16306.6	94.4
0°-90°	17276.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17276.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8962	8962	8962	8962	8962	
5°	8981	9005	9015	9005	9005	850
15°	8330	8915	9481	9219	8786	2346
25°	7297	8116	9562	8805	8106	3317
35°	5913	6080	7283	6731	6541	3733
45°	4881	4224	2635	3934	5033	3724
55°	2635	2502	690	2502	3087	2369
65°	823	832	105	1118	1184	858
75°	143	143	19	252	262	172
85°	14	14	5	33	43	20
90°	0	0	0	0	0	



TEST NUMBER: P248522

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBDW0WH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	8962.2	8962.2	8962.2	8962.2	8962.2	8962.2	8962.2	8962.2	8962.2	8962.2	8962.2
2.5°	8986.0	8971.7	8986.0	8986.0	8990.8	8981.3	8986.0	8990.8	8981.3	8981.3	8981.3
5°	8981.3	8971.7	8981.3	8976.5	8986.0	8986.0	8995.6	8995.6	9005.0	9005.0	9019.3
7.5°	8905.1	8886.2	8905.1	8919.5	8928.9	8948.0	8971.7	8990.8	9009.8	9028.9	9052.6
10°	8748.1	8748.1	8762.4	8791.0	8819.5	8852.8	8895.6	8943.2	8990.8	9033.5	9076.4
12.5°	8553.2	8538.8	8567.4	8605.4	8648.3	8700.6	8767.2	8838.6	8914.7	9000.2	9066.9
15°	8329.6	8315.2	8348.5	8386.6	8439.0	8515.1	8596.0	8691.1	8800.5	8914.7	9024.1
17.5°	8101.2	8096.4	8129.7	8182.1	8224.9	8305.7	8410.5	8524.5	8648.3	8800.5	8943.2
20°	7868.2	7863.4	7896.7	7939.5	7996.6	8072.7	8177.3	8310.5	8458.0	8629.3	8795.7
22.5°	7625.5	7630.3	7658.8	7706.4	7754.0	7834.8	7944.2	8077.4	8239.1	8424.7	8610.2
25°	7297.2	7273.5	7311.6	7359.2	7439.9	7506.5	7611.3	7754.0	7920.4	8115.5	8334.3
27.5°	6821.5	6816.8	6850.2	6892.9	6964.2	7045.1	7159.3	7306.8	7482.8	7696.8	7910.9
30°	6345.8	6355.4	6369.7	6412.5	6460.0	6540.9	6655.1	6778.8	6945.3	7149.8	7378.1
32.5°	6022.4	6022.4	6041.4	6070.0	6103.2	6146.1	6227.0	6317.3	6445.8	6588.5	6755.0
35°	5912.9	5894.0	5912.9	5917.7	5922.5	5932.0	5946.2	5974.9	6017.6	6079.5	6141.3
37.5°	5865.4	5851.1	5851.1	5832.2	5808.3	5779.8	5741.7	5698.9	5651.4	5589.5	5542.0
40°	5679.9	5670.4	5660.8	5641.9	5589.5	5532.4	5470.5	5370.7	5261.2	5109.0	4956.9
42.5°	5323.2	5313.6	5308.8	5270.8	5223.2	5156.6	5085.2	4980.6	4842.7	4647.6	4428.8
45°	4880.7	4861.6	4847.4	4814.2	4780.8	4723.7	4657.1	4561.9	4424.0	4224.3	3962.6
47.5°	4367.0	4357.4	4352.6	4338.4	4305.2	4271.8	4229.0	4152.9	4029.2	3838.9	3567.8
50°	3848.4	3829.4	3838.9	3834.2	3819.9	3796.2	3767.5	3715.3	3620.0	3448.8	3201.5
52.5°	3253.7	3253.7	3249.1	3263.3	3268.1	3263.3	3268.1	3211.0	3130.1	3001.6	2792.4
55°	2635.3	2635.3	2649.6	2668.7	2687.7	2692.5	2687.7	2664.0	2606.8	2502.2	2316.6
57.5°	2055.0	2045.5	2074.1	2102.6	2121.7	2140.6	2126.3	2107.4	2074.1	1988.4	1845.7
60°	1565.1	1565.1	1584.0	1603.1	1622.1	1641.2	1636.4	1631.6	1603.1	1546.0	1431.9
62.5°	1151.2	1155.9	1155.9	1170.2	1189.2	1208.3	1222.5	1208.3	1194.0	1155.9	1079.8
65°	822.9	818.2	822.9	837.2	851.6	870.5	880.1	875.3	861.0	832.5	775.4
67.5°	551.8	547.1	566.0	570.8	580.4	599.4	594.7	599.4	594.7	570.8	523.3
70°	361.5	352.0	361.5	356.8	371.1	375.8	385.3	390.0	385.3	371.1	356.8
72.5°	223.6	218.8	223.6	228.4	233.1	237.8	247.3	247.3	242.6	233.1	214.1
75°	142.7	128.4	133.2	123.7	133.2	133.2	142.7	147.5	142.7	142.7	133.2
77.5°	85.7	85.7	85.7	85.7	85.7	85.7	85.7	90.4	95.1	85.7	80.9
80°	42.8	42.8	47.6	47.6	47.6	52.4	47.6	47.6	47.6	52.4	38.1
82.5°	33.3	28.5	28.5	28.5	33.3	28.5	28.5	28.5	28.5	28.5	28.5
85°	14.3	19.0	14.3	9.5	14.3	14.3	19.0	14.3	14.3	14.3	19.0
87.5°	4.8	4.8	0.0	0.0	0.0	4.8	0.0	4.8	4.8	9.5	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



TEST NUMBER: P248522

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8962.2	8962.2	8962.2	8962.2	8962.2	8962.2	8962.2	8962.2	8962.2	8962.2	8962.2
2.5°	8986.0	8976.5	8976.5	8971.7	8981.3	8971.7	8976.5	8971.7	8971.7	8981.3	8971.7
5°	9019.3	9024.1	9014.6	9009.8	9024.1	9024.1	9024.1	9014.6	9014.6	9019.3	9014.6
7.5°	9066.9	9076.4	9081.1	9085.9	9095.5	9100.2	9100.2	9095.5	9090.7	9105.0	9085.9
10°	9119.2	9133.5	9162.0	9176.3	9200.1	9200.1	9209.6	9209.6	9200.1	9209.6	9204.9
12.5°	9100.2	9185.8	9233.4	9266.7	9300.0	9328.5	9338.0	9342.8	9338.0	9357.1	9338.0
15°	9133.5	9204.9	9281.0	9338.0	9399.8	9433.1	9442.7	9480.7	9490.3	9495.0	9466.5
17.5°	9081.1	9209.6	9290.4	9376.1	9466.5	9528.3	9585.4	9609.2	9614.0	9623.4	9585.4
20°	8962.2	9105.0	9228.6	9352.3	9457.0	9552.1	9599.7	9666.3	9647.3	9685.3	9633.0
22.5°	8800.5	8962.2	9119.2	9281.0	9390.4	9504.6	9604.5	9651.9	9675.8	9675.8	9618.7
25°	8543.6	8733.9	8905.1	9071.6	9238.2	9376.1	9490.3	9561.6	9575.9	9571.2	9504.6
27.5°	8144.0	8348.5	8548.4	8738.7	8943.2	9105.0	9238.2	9323.7	9347.6	9347.6	9276.2
30°	7592.2	7811.0	8006.1	8234.4	8443.7	8624.5	8810.0	8886.2	8928.9	8928.9	8848.1
32.5°	6935.7	7121.3	7302.0	7525.6	7754.0	7958.5	8134.5	8239.1	8291.5	8286.7	8215.4
35°	6222.2	6312.5	6450.6	6617.0	6821.5	7011.8	7183.1	7283.0	7373.4	7368.6	7302.0
37.5°	5508.6	5484.8	5499.1	5561.0	5689.3	5822.6	5955.8	6051.0	6127.0	6160.4	6146.1
40°	4809.4	4685.7	4566.7	4524.0	4533.4	4581.0	4652.4	4723.7	4809.4	4852.2	4871.2
42.5°	4181.4	3972.1	3762.8	3605.8	3515.4	3486.9	3520.2	3543.9	3596.3	3658.1	3720.0
45°	3677.2	3396.6	3120.6	2878.0	2725.8	2635.3	2616.4	2635.3	2664.0	2725.8	2806.7
47.5°	3263.3	2935.1	2625.9	2354.7	2131.1	2012.3	1979.0	1969.4	1997.9	2055.0	2164.4
50°	2897.0	2568.8	2226.3	1912.3	1679.3	1546.0	1498.5	1479.4	1512.7	1555.5	1655.4
52.5°	2497.4	2173.9	1822.0	1517.5	1274.9	1137.0	1084.6	1056.1	1075.0	1132.2	1232.1
55°	2064.5	1764.8	1446.1	1132.2	899.0	770.7	708.7	689.8	708.7	770.7	870.5
57.5°	1631.6	1379.5	1113.1	818.2	608.9	480.5	418.6	399.6	452.0	475.7	580.4
60°	1274.9	1070.4	842.0	599.4	418.6	318.7	256.9	242.6	266.4	309.2	394.8
62.5°	956.2	827.7	646.9	428.1	309.2	204.5	171.2	157.0	171.2	204.5	271.2
65°	694.5	594.7	452.0	313.9	209.3	152.2	114.2	104.6	119.0	142.7	199.9
67.5°	475.7	399.6	313.9	218.8	142.7	95.1	80.9	80.9	85.7	104.6	147.5
70°	309.2	261.7	199.9	142.7	95.1	71.4	61.8	52.4	61.8	76.1	99.9
72.5°	195.1	166.4	128.4	99.9	71.4	52.4	42.8	38.1	47.6	57.0	76.1
75°	119.0	90.4	66.6	52.4	38.1	38.1	38.1	19.0	23.7	38.1	47.6
77.5°	71.4	61.8	52.4	42.8	33.3	19.0	19.0	19.0	23.7	28.5	42.8
80°	38.1	33.3	23.7	23.7	19.0	14.3	19.0	14.3	9.5	23.7	28.5
82.5°	23.7	19.0	19.0	19.0	23.7	9.5	14.3	9.5	14.3	19.0	14.3
85°	14.3	14.3	14.3	9.5	23.7	9.5	9.5	4.8	4.8	9.5	9.5
87.5°	0.0	4.8	4.8	0.0	4.8	0.0	4.8	4.8	4.8	4.8	4.8
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: P248522

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8962.2	8962.2	8962.2	8962.2	8962.2	8962.2	8962.2	8962.2	8962.2	8962.2	8962.2
2.5°	8976.5	8971.7	8976.5	8971.7	8971.7	8971.7	8976.5	8976.5	8971.7	8971.7	8981.3
5°	9014.6	9014.6	9014.6	9009.8	9005.0	9005.0	9014.6	9014.6	9000.2	9014.6	9014.6
7.5°	9095.5	9081.1	9095.5	9076.4	9066.9	9071.6	9076.4	9066.9	9057.4	9062.2	9062.2
10°	9200.1	9185.8	9185.8	9171.6	9157.3	9147.7	9138.3	9114.4	9090.7	9085.9	9066.9
12.5°	9323.7	9300.0	9285.8	9257.1	9233.4	9200.1	9171.6	9133.5	9085.9	9052.6	9019.3
15°	9447.4	9409.4	9376.1	9328.5	9276.2	9219.1	9157.3	9095.5	9019.3	8952.7	8895.6
17.5°	9547.3	9495.0	9433.1	9357.1	9281.0	9195.3	9105.0	9014.6	8905.1	8819.5	8752.9
20°	9580.6	9504.6	9423.7	9323.7	9223.8	9105.0	8990.8	8871.9	8748.1	8657.8	8581.7
22.5°	9537.9	9447.4	9347.6	9242.9	9109.7	8981.3	8848.1	8710.1	8600.7	8477.0	8405.7
25°	9418.9	9309.5	9200.1	9076.4	8948.0	8805.3	8662.6	8519.9	8386.6	8320.0	8229.7
27.5°	9176.3	9057.4	8938.4	8810.0	8662.6	8519.9	8372.4	8234.4	8120.3	8029.8	7977.6
30°	8748.1	8610.2	8472.3	8334.3	8205.8	8058.4	7920.4	7806.2	7692.1	7620.7	7568.4
32.5°	8091.7	7968.0	7830.1	7696.8	7578.0	7454.3	7340.1	7240.2	7159.3	7111.7	7073.6
35°	7206.9	7083.2	6978.5	6883.5	6783.5	6731.2	6659.9	6602.7	6569.4	6550.4	6545.7
37.5°	6093.7	6022.4	5989.1	5970.1	5951.0	5936.8	5946.2	5970.1	5989.1	6022.4	6060.4
40°	4904.5	4966.3	4985.4	5052.0	5113.8	5194.7	5285.1	5389.7	5475.3	5584.7	5660.8
42.5°	3819.9	3934.1	4067.2	4209.9	4362.2	4509.7	4690.4	4856.9	5009.1	5147.1	5266.0
45°	2935.1	3111.0	3310.9	3515.4	3720.0	3934.1	4152.9	4357.4	4538.2	4685.7	4809.4
47.5°	2288.1	2483.2	2740.1	2992.2	3239.5	3491.7	3734.2	3948.3	4100.5	4243.2	4352.6
50°	1812.4	2036.0	2316.6	2606.8	2878.0	3144.3	3401.2	3601.1	3753.3	3867.5	3948.3
52.5°	1403.3	1669.7	1955.1	2259.6	2549.8	2840.0	3077.8	3263.3	3387.0	3486.9	3548.7
55°	1046.5	1308.2	1612.7	1926.6	2221.5	2502.2	2725.8	2887.6	2997.0	3054.0	3087.3
57.5°	756.3	994.3	1298.6	1612.7	1879.0	2145.4	2326.2	2473.7	2535.5	2568.8	2583.1
60°	551.8	770.7	1041.8	1313.0	1565.1	1779.1	1936.1	2036.0	2083.6	2102.6	2097.8
62.5°	404.4	594.7	827.7	1056.1	1260.6	1436.6	1560.3	1626.9	1650.7	1660.2	1646.0
65°	309.2	456.6	656.5	832.5	989.5	1117.9	1208.3	1251.1	1265.3	1260.6	1251.1
67.5°	228.4	342.6	490.0	623.2	737.4	837.2	884.8	922.9	932.3	918.1	903.8
70°	161.8	252.1	356.8	447.2	532.7	589.9	642.2	646.9	646.9	642.2	632.7
72.5°	114.2	176.0	242.6	304.5	356.8	399.6	418.6	432.9	428.1	423.3	413.9
75°	76.1	109.4	176.0	190.3	237.8	252.1	271.2	271.2	275.9	261.7	261.7
77.5°	47.6	76.1	104.6	123.7	142.7	161.8	171.2	171.2	176.0	171.2	171.2
80°	28.5	47.6	57.0	85.7	85.7	99.9	104.6	109.4	99.9	114.2	99.9
82.5°	19.0	28.5	42.8	42.8	52.4	61.8	61.8	66.6	66.6	61.8	61.8
85°	14.3	19.0	23.7	28.5	28.5	33.3	28.5	28.5	33.3	38.1	33.3
87.5°	4.8	9.5	4.8	9.5	9.5	19.0	14.3	14.3	14.3	19.0	19.0
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: P248522

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8962.2	8962.2	8962.2	8962.2
2.5°	8971.7	8976.5	8971.7	8971.7
5°	9014.6	9009.8	9014.6	9005.0
7.5°	9047.8	9047.8	9043.1	9043.1
10°	9047.8	9028.9	9028.9	9028.9
12.5°	8976.5	8952.7	8938.4	8928.9
15°	8852.8	8810.0	8791.0	8786.2
17.5°	8691.1	8653.0	8629.3	8615.0
20°	8505.6	8467.5	8439.0	8443.7
22.5°	8343.8	8301.0	8282.0	8272.4
25°	8182.1	8129.7	8115.5	8106.0
27.5°	7920.4	7891.9	7877.6	7863.4
30°	7520.8	7506.5	7482.8	7516.1
32.5°	7059.4	7035.6	7016.6	7030.9
35°	6550.4	6536.1	6550.4	6540.9
37.5°	6084.3	6098.5	6117.6	6127.0
40°	5718.0	5770.2	5789.3	5798.8
42.5°	5351.7	5413.5	5451.5	5475.3
45°	4899.7	4961.5	5004.4	5033.0
47.5°	4433.5	4485.9	4528.6	4524.0
50°	4010.2	4038.7	4057.7	4076.8
52.5°	3582.0	3582.0	3586.8	3586.8
55°	3096.8	3087.3	3082.5	3087.3
57.5°	2564.0	2554.6	2549.8	2535.5
60°	2078.8	2050.3	2031.2	2031.2
62.5°	1626.9	1593.6	1579.4	1574.6
65°	1222.5	1217.7	1189.2	1184.5
67.5°	884.8	865.8	846.8	851.6
70°	623.2	594.7	594.7	585.1
72.5°	404.4	390.0	385.3	385.3
75°	252.1	252.1	242.6	261.7
77.5°	166.4	166.4	161.8	166.4
80°	99.9	99.9	99.9	95.1
82.5°	61.8	66.6	61.8	61.8
85°	33.3	38.1	28.5	42.8
87.5°	19.0	23.7	19.0	23.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)