

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: P248441

Luminaire Tested: **LD8B175D010 ER8B175827 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248441
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 ER8B175827 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17576.0 lumens
Efficiency: N/A
Efficacy: 99.2 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

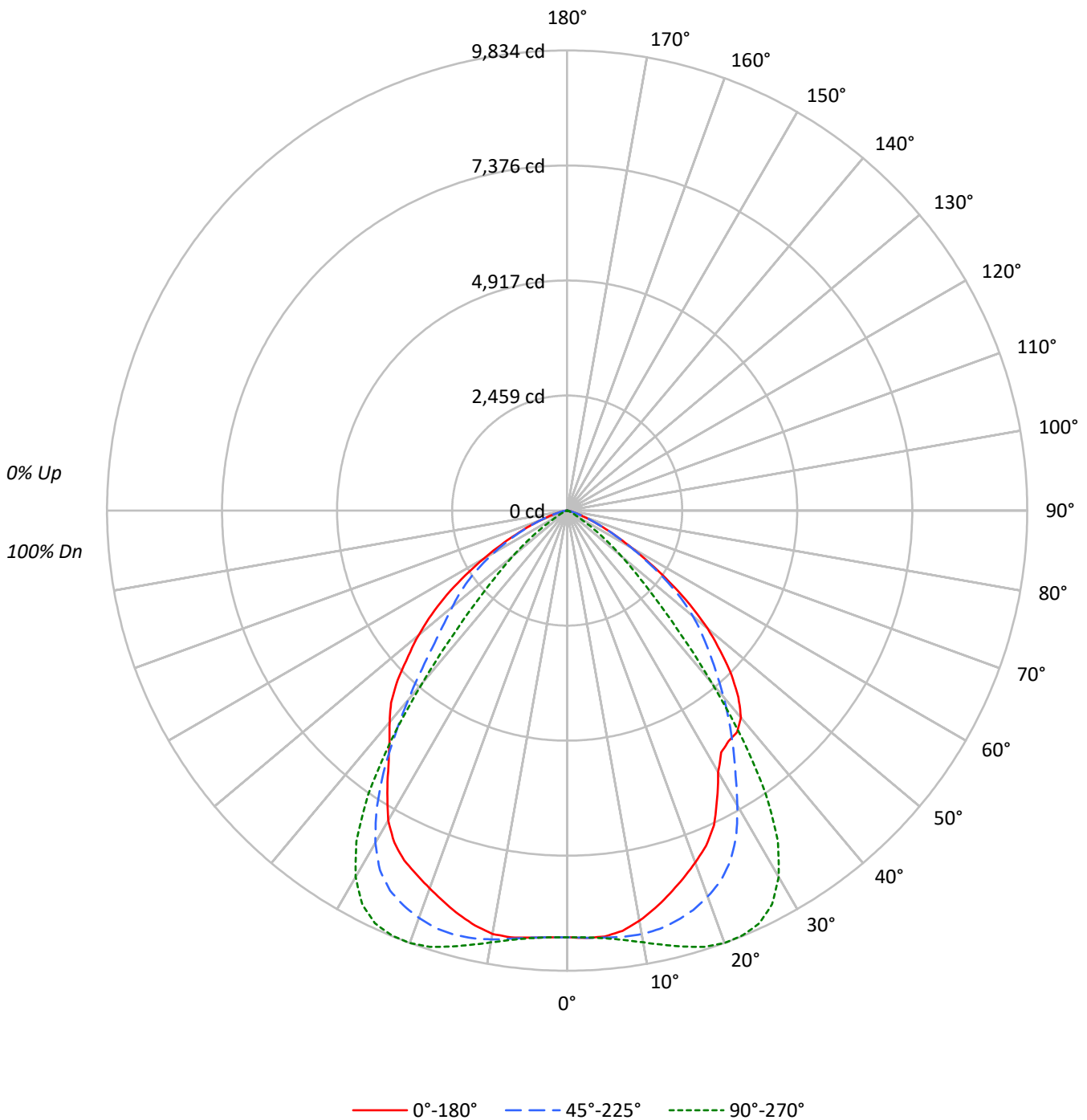
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	281159	281159	281159
5°	282834	283883	283583
10°	278677	293381	287623
15°	270531	307921	285363
20°	262680	322709	281897
25°	252595	330976	280587
30°	229877	321902	272270
35°	226452	278925	250503
40°	232607	193448	237478
45°	216541	116920	223296
50°	187823	72204	198972
55°	144140	37724	168859
60°	98195	15221	127446
65°	61086	7771	87923
70°	33161	4805	53672
75°	17299	2299	31716
80°	7742	2593	17172
85°	5166	1734	15426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	876.8	5.0
10°-20°	2597.6	14.8
20°-30°	3962.8	22.5
30°-40°	4135.3	23.5
40°-50°	3106.1	17.7
50°-60°	1911.1	10.9
60°-70°	777.8	4.4
70°-80°	183.2	1.0
80°-90°	25.2	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°	7437.2	42.3
0°-40°	11572.5	65.8
0°-60°	16589.8	94.4
0°-90°	17576.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17576.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9118	9118	9118	9118	9118	
5°	9137	9161	9171	9161	9161	864
15°	8474	9070	9645	9379	8939	2387
25°	7424	8256	9728	8958	8247	3375
35°	6016	6185	7410	6848	6654	3798
45°	4966	4298	2681	4002	5120	3788
55°	2681	2546	702	2546	3141	2410
65°	837	847	106	1137	1205	873
75°	145	145	19	256	266	175
85°	15	15	5	34	44	20
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°	9117.8	9117.8	9117.8	9117.8	9117.8	9117.8	9117.8	9117.8	9117.8	9117.8	9117.8
2.5°	9142.1	9127.5	9142.1	9142.1	9146.9	9137.2	9142.1	9146.9	9137.2	9137.2	9137.2
5°	9137.2	9127.5	9137.2	9132.4	9142.1	9142.1	9151.8	9151.8	9161.4	9161.4	9175.9
7.5°	9059.8	9040.5	9059.8	9074.3	9083.9	9103.4	9127.5	9146.9	9166.2	9185.7	9209.8
10°	8900.0	8900.0	8914.6	8943.6	8972.6	9006.5	9050.1	9098.5	9146.9	9190.4	9234.0
12.5°	8701.7	8687.1	8716.1	8754.9	8798.4	8851.7	8919.5	8992.0	9069.5	9156.5	9224.4
15°	8474.2	8459.6	8493.5	8532.2	8585.5	8663.0	8745.3	8842.0	8953.3	9069.5	9180.8
17.5°	8241.9	8237.0	8270.9	8324.2	8367.7	8449.9	8556.5	8672.6	8798.4	8953.3	9098.5
20°	8004.8	7999.9	8033.8	8077.4	8135.4	8212.9	8319.3	8454.8	8604.8	8779.1	8948.5
22.5°	7757.9	7762.8	7791.8	7840.2	7888.6	7970.8	8082.1	8217.7	8382.2	8571.0	8759.7
25°	7424.0	7399.8	7438.5	7487.0	7569.1	7636.9	7743.4	7888.6	8058.0	8256.4	8479.1
27.5°	6940.0	6935.1	6969.1	7012.6	7085.2	7167.5	7283.6	7433.7	7612.7	7830.5	8048.3
30°	6456.0	6465.7	6480.3	6523.9	6572.2	6654.5	6770.6	6896.5	7065.9	7273.9	7506.3
32.5°	6126.9	6126.9	6146.4	6175.4	6209.2	6252.8	6335.1	6427.0	6557.7	6702.9	6872.3
35°	6015.6	5996.3	6015.6	6020.5	6025.3	6035.0	6049.5	6078.6	6122.1	6185.1	6248.0
37.5°	5967.3	5952.7	5952.7	5933.4	5909.2	5880.1	5841.4	5797.9	5749.5	5686.5	5638.2
40°	5778.5	5768.8	5759.1	5739.8	5686.5	5628.5	5565.5	5463.9	5352.6	5197.7	5042.9
42.5°	5415.6	5405.9	5401.0	5362.3	5313.9	5246.1	5173.6	5067.1	4926.8	4728.3	4505.7
45°	4965.5	4946.1	4931.6	4897.8	4863.8	4805.7	4738.0	4641.1	4500.8	4297.6	4031.4
47.5°	4442.8	4433.1	4428.2	4413.8	4379.9	4345.9	4302.5	4225.0	4099.1	3905.5	3629.7
50°	3915.2	3895.9	3905.5	3900.8	3886.2	3862.1	3832.9	3779.8	3682.9	3508.7	3257.1
52.5°	3310.3	3310.3	3305.5	3320.0	3324.8	3320.0	3324.8	3266.8	3184.5	3053.8	2840.8
55°	2681.1	2681.1	2695.7	2715.1	2734.4	2739.2	2734.4	2710.2	2652.1	2545.6	2356.9
57.5°	2090.7	2081.1	2110.1	2139.1	2158.5	2177.8	2163.3	2144.0	2110.1	2022.9	1877.8
60°	1592.2	1592.2	1611.5	1631.0	1650.3	1669.7	1664.8	1660.0	1631.0	1572.8	1456.8
62.5°	1171.2	1176.0	1176.0	1190.6	1209.9	1229.3	1243.7	1229.3	1214.7	1176.0	1098.6
65°	837.2	832.4	837.2	851.8	866.3	885.6	895.4	890.5	875.9	846.9	788.9
67.5°	561.4	556.6	575.9	580.7	590.4	609.8	605.0	609.8	605.0	580.7	532.4
70°	367.8	358.1	367.8	363.0	377.5	382.4	392.0	396.8	392.0	377.5	363.0
72.5°	227.5	222.6	227.5	232.3	237.2	241.9	251.6	251.6	246.8	237.2	217.8
75°	145.2	130.6	135.5	125.9	135.5	135.5	145.2	150.0	145.2	145.2	135.5
77.5°	87.2	87.2	87.2	87.2	87.2	87.2	87.2	92.0	96.7	87.2	82.3
80°	43.6	43.6	48.4	48.4	48.4	53.3	48.4	48.4	48.4	53.3	38.7
82.5°	33.9	29.0	29.0	29.0	33.9	29.0	29.0	29.0	29.0	29.0	29.0
85°	14.6	19.3	14.6	9.7	14.6	14.6	19.3	14.6	14.6	14.6	19.3
87.5°	4.9	4.9	0.0	0.0	0.0	4.9	0.0	4.9	4.9	9.7	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°	9117.8	9117.8	9117.8	9117.8	9117.8	9117.8	9117.8	9117.8	9117.8	9117.8	9117.8
2.5°	9142.1	9132.4	9132.4	9127.5	9137.2	9127.5	9132.4	9127.5	9127.5	9137.2	9127.5
5°	9175.9	9180.8	9171.1	9166.2	9180.8	9180.8	9180.8	9171.1	9171.1	9175.9	9171.1
7.5°	9224.4	9234.0	9238.8	9243.7	9253.4	9258.2	9258.2	9253.4	9248.5	9263.1	9243.7
10°	9277.6	9292.1	9321.1	9335.7	9359.9	9359.9	9369.6	9369.6	9359.9	9369.6	9364.7
12.5°	9258.2	9345.3	9393.7	9427.6	9461.5	9490.5	9500.2	9505.0	9500.2	9519.6	9500.2
15°	9292.1	9364.7	9442.2	9500.2	9563.1	9596.9	9606.6	9645.4	9655.1	9659.9	9630.9
17.5°	9238.8	9369.6	9451.7	9538.9	9630.9	9693.8	9751.8	9776.1	9780.9	9790.5	9751.8
20°	9117.8	9263.1	9388.9	9514.7	9621.2	9717.9	9766.4	9834.1	9814.8	9853.5	9800.2
22.5°	8953.3	9117.8	9277.6	9442.2	9553.5	9669.6	9771.2	9819.6	9843.8	9843.8	9785.7
25°	8692.0	8885.6	9059.8	9229.1	9398.6	9538.9	9655.1	9727.7	9742.2	9737.4	9669.6
27.5°	8285.4	8493.5	8696.8	8890.4	9098.5	9263.1	9398.6	9485.6	9509.9	9509.9	9437.3
30°	7724.0	7946.7	8145.1	8377.3	8590.4	8774.3	8963.0	9040.5	9083.9	9083.9	9001.8
32.5°	7056.2	7244.9	7428.8	7656.3	7888.6	8096.7	8275.7	8382.2	8435.5	8430.6	8358.0
35°	6330.3	6422.1	6562.6	6731.9	6940.0	7133.6	7307.8	7409.5	7501.4	7496.6	7428.8
37.5°	5604.2	5580.1	5594.6	5657.5	5788.1	5923.7	6059.2	6156.1	6233.4	6267.4	6252.8
40°	4892.9	4767.0	4646.0	4602.5	4612.1	4660.6	4733.2	4805.7	4892.9	4936.5	4955.8
42.5°	4254.0	4041.1	3828.1	3668.5	3576.5	3547.4	3581.3	3605.5	3658.8	3721.6	3784.6
45°	3741.1	3455.5	3174.8	2928.0	2773.1	2681.1	2661.8	2681.1	2710.2	2773.1	2855.4
47.5°	3320.0	2986.0	2671.5	2395.6	2168.1	2047.2	2013.3	2003.6	2032.6	2090.7	2202.0
50°	2947.3	2613.4	2265.0	1945.5	1708.4	1572.8	1524.5	1505.1	1539.0	1582.5	1684.1
52.5°	2540.8	2211.7	1853.6	1543.8	1297.0	1156.7	1103.4	1074.4	1093.7	1151.8	1253.5
55°	2100.4	1795.5	1471.2	1151.8	914.7	784.0	721.0	701.7	721.0	784.0	885.6
57.5°	1660.0	1403.5	1132.4	832.4	619.4	488.8	425.8	406.5	459.8	484.0	590.4
60°	1297.0	1089.0	856.6	609.8	425.8	324.2	261.3	246.8	271.1	314.5	401.7
62.5°	972.8	842.1	658.2	435.5	314.5	208.1	174.2	159.7	174.2	208.1	275.9
65°	706.6	605.0	459.8	319.4	212.9	154.9	116.2	106.5	121.0	145.2	203.3
67.5°	484.0	406.5	319.4	222.6	145.2	96.7	82.3	82.3	87.2	106.5	150.0
70°	314.5	266.2	203.3	145.2	96.7	72.6	62.9	53.3	62.9	77.4	101.6
72.5°	198.5	169.3	130.6	101.6	72.6	53.3	43.6	38.7	48.4	58.0	77.4
75°	121.0	92.0	67.7	53.3	38.7	38.7	38.7	19.3	24.2	38.7	48.4
77.5°	72.6	62.9	53.3	43.6	33.9	19.3	19.3	19.3	24.2	29.0	43.6
80°	38.7	33.9	24.2	24.2	19.3	14.6	19.3	14.6	9.7	24.2	29.0
82.5°	24.2	19.3	19.3	19.3	24.2	9.7	14.6	9.7	14.6	19.3	14.6
85°	14.6	14.6	14.6	9.7	24.2	9.7	9.7	4.9	4.9	9.7	9.7
87.5°	0.0	4.9	4.9	0.0	4.9	0.0	4.9	4.9	4.9	4.9	4.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9117.8	9117.8	9117.8	9117.8	9117.8	9117.8	9117.8	9117.8	9117.8	9117.8	9117.8
2.5°	9132.4	9127.5	9132.4	9127.5	9127.5	9127.5	9132.4	9132.4	9127.5	9127.5	9137.2
5°	9171.1	9171.1	9171.1	9166.2	9161.4	9161.4	9171.1	9171.1	9156.5	9171.1	9171.1
7.5°	9253.4	9238.8	9253.4	9234.0	9224.4	9229.1	9234.0	9224.4	9214.7	9219.5	9219.5
10°	9359.9	9345.3	9345.3	9330.8	9316.3	9306.6	9297.0	9272.7	9248.5	9243.7	9224.4
12.5°	9485.6	9461.5	9447.0	9417.9	9393.7	9359.9	9330.8	9292.1	9243.7	9209.8	9175.9
15°	9611.5	9572.8	9538.9	9490.5	9437.3	9379.2	9316.3	9253.4	9175.9	9108.2	9050.1
17.5°	9713.1	9659.9	9596.9	9519.6	9442.2	9355.0	9263.1	9171.1	9059.8	8972.6	8904.9
20°	9747.0	9669.6	9587.3	9485.6	9384.0	9263.1	9146.9	9025.9	8900.0	8808.1	8730.7
22.5°	9703.5	9611.5	9509.9	9403.4	9267.8	9137.2	9001.8	8861.3	8750.0	8624.2	8551.7
25°	9582.5	9471.2	9359.9	9234.0	9103.4	8958.2	8813.0	8667.8	8532.2	8464.5	8372.6
27.5°	9335.7	9214.7	9093.7	8963.0	8813.0	8667.8	8517.8	8377.3	8261.3	8169.3	8116.1
30°	8900.0	8759.7	8619.4	8479.1	8348.3	8198.3	8058.0	7941.8	7825.6	7753.0	7699.9
32.5°	8232.2	8106.4	7966.1	7830.5	7709.6	7583.7	7467.5	7365.9	7283.6	7235.2	7196.5
35°	7332.1	7206.2	7099.7	7003.0	6901.3	6848.1	6775.5	6717.4	6683.5	6664.2	6659.3
37.5°	6199.5	6126.9	6093.1	6073.8	6054.3	6039.9	6049.5	6073.8	6093.1	6126.9	6165.7
40°	4989.6	5052.5	5071.9	5139.7	5202.6	5284.9	5376.9	5483.3	5570.4	5681.7	5759.1
42.5°	3886.2	4002.4	4137.9	4283.1	4437.9	4588.0	4771.9	4941.2	5096.1	5236.4	5357.5
45°	2986.0	3165.1	3368.4	3576.5	3784.6	4002.4	4225.0	4433.1	4617.0	4767.0	4892.9
47.5°	2327.9	2526.3	2787.7	3044.2	3295.8	3552.3	3799.1	4016.8	4171.7	4316.9	4428.2
50°	1843.9	2071.4	2356.9	2652.1	2928.0	3198.9	3460.3	3663.6	3818.5	3934.7	4016.8
52.5°	1427.6	1698.7	1989.1	2298.8	2594.1	2889.3	3131.2	3320.0	3445.8	3547.4	3610.3
55°	1064.7	1330.9	1640.7	1960.0	2260.1	2545.6	2773.1	2937.7	3049.0	3107.0	3140.9
57.5°	769.5	1011.5	1321.2	1640.7	1911.6	2182.7	2366.6	2516.6	2579.5	2613.4	2627.9
60°	561.4	784.0	1059.8	1335.8	1592.2	1810.0	1969.8	2071.4	2119.8	2139.1	2134.2
62.5°	411.4	605.0	842.1	1074.4	1282.5	1461.5	1587.4	1655.1	1679.4	1689.0	1674.5
65°	314.5	464.6	667.9	846.9	1006.7	1137.3	1229.3	1272.9	1287.3	1282.5	1272.9
67.5°	232.3	348.5	498.5	634.0	750.2	851.8	900.2	938.9	948.5	934.1	919.5
70°	164.6	256.5	363.0	455.0	542.0	600.1	653.3	658.2	658.2	653.3	643.7
72.5°	116.2	179.0	246.8	309.8	363.0	406.5	425.8	440.4	435.5	430.7	421.1
75°	77.4	111.3	179.0	193.6	241.9	256.5	275.9	275.9	280.7	266.2	266.2
77.5°	48.4	77.4	106.5	125.9	145.2	164.6	174.2	174.2	179.0	174.2	174.2
80°	29.0	48.4	58.0	87.2	87.2	101.6	106.5	111.3	101.6	116.2	101.6
82.5°	19.3	29.0	43.6	43.6	53.3	62.9	62.9	67.7	67.7	62.9	62.9
85°	14.6	19.3	24.2	29.0	29.0	33.9	29.0	29.0	33.9	38.7	33.9
87.5°	4.9	9.7	4.9	9.7	9.7	19.3	14.6	14.6	14.6	19.3	19.3
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: P248441

CATALOG NUMBER: LD8B175D010 ER8B175827 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9117.8	9117.8	9117.8	9117.8
2.5°	9127.5	9132.4	9127.5	9127.5
5°	9171.1	9166.2	9171.1	9161.4
7.5°	9205.0	9205.0	9200.1	9200.1
10°	9205.0	9185.7	9185.7	9185.7
12.5°	9132.4	9108.2	9093.7	9083.9
15°	9006.5	8963.0	8943.6	8938.8
17.5°	8842.0	8803.3	8779.1	8764.6
20°	8653.3	8614.5	8585.5	8590.4
22.5°	8488.7	8445.2	8425.8	8416.1
25°	8324.2	8270.9	8256.4	8246.7
27.5°	8058.0	8029.0	8014.4	7999.9
30°	7651.4	7636.9	7612.7	7646.6
32.5°	7182.0	7157.8	7138.5	7153.0
35°	6664.2	6649.6	6664.2	6654.5
37.5°	6189.9	6204.4	6223.8	6233.4
40°	5817.3	5870.4	5889.9	5899.5
42.5°	5444.6	5507.5	5546.2	5570.4
45°	4984.8	5047.7	5091.3	5120.4
47.5°	4510.5	4563.8	4607.3	4602.5
50°	4079.8	4108.9	4128.2	4147.6
52.5°	3644.2	3644.2	3649.0	3649.0
55°	3150.6	3140.9	3136.1	3140.9
57.5°	2608.5	2598.9	2594.1	2579.5
60°	2114.9	2085.9	2066.5	2066.5
62.5°	1655.1	1621.3	1606.8	1602.0
65°	1243.7	1238.9	1209.9	1205.0
67.5°	900.2	880.8	861.5	866.3
70°	634.0	605.0	605.0	595.3
72.5°	411.4	396.8	392.0	392.0
75°	256.5	256.5	246.8	266.2
77.5°	169.3	169.3	164.6	169.3
80°	101.6	101.6	101.6	96.7
82.5°	62.9	67.7	62.9	62.9
85°	33.9	38.7	29.0	43.6
87.5°	19.3	24.2	19.3	24.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)