

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: P249754

Luminaire Tested: **LD8B175D010 ER8B175935 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175935 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16540.0 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

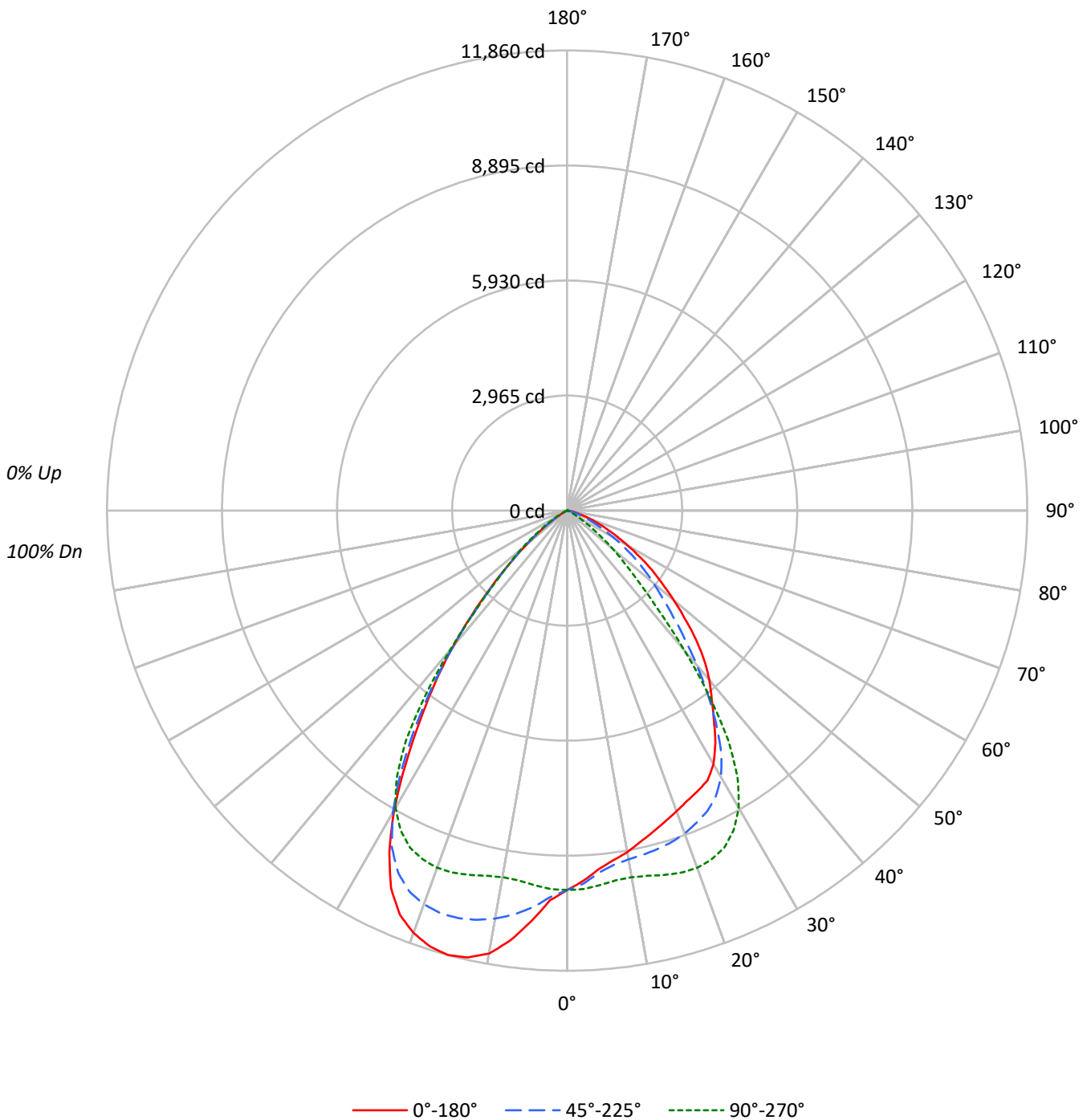
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249754

CATALOG NUMBER: LD8B175D010 ER8B175935 8LBSW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P249754

CATALOG NUMBER: LD8B175D010 ER8B175935 8LBSW0LI

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	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	301582	301582	301582
5°	287316	299905	328770
10°	279907	300370	362906
15°	273561	310325	378604
20°	270549	321538	380024
25°	271182	326077	365262
30°	268667	314881	317647
35°	248256	272510	248598
40°	229407	188936	184339
45°	204283	114003	117784
50°	171887	73446	66653
55°	143000	40289	30472
60°	111615	17472	9584
65°	82370	8676	4670
70°	57278	5355	2056
75°	34849	1096	0
80°	25145	1634	0
85°	16169	1592	0



TEST NUMBER: P249754

CATALOG NUMBER: LD8B175D010 ER8B175935 8LBSW0LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	940.2	5.7
10°-20°	2813.9	17.0
20°-30°	4309.2	26.1
30°-40°	4224.5	25.5
40°-50°	2544.0	15.4
50°-60°	1170.9	7.1
60°-70°	411.3	2.5
70°-80°	107.6	0.7
80°-90°	18.3	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°	8063.4	48.8
0°-40°	12287.8	74.3
0°-60°	16002.7	96.8
0°-90°	16540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16540.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9780	9780	9780	9780	9780	
5°	9282	9369	9689	10269	10621	877
15°	8569	9031	9721	10872	11860	2421
25°	7970	8546	9584	10306	10735	3671
35°	6595	6686	7239	6823	6604	4130
45°	4684	3857	2614	2632	2701	3592
55°	2660	2107	749	590	567	2373
65°	1129	781	119	59	64	1150
75°	292	169	9	0	0	355
85°	46	23	4	0	0	63
90°	0	0	0	0	0	



TEST NUMBER: P249754

CATALOG NUMBER: LD8B175D010 ER8B175935 8LBSW0LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	9780.1	9780.1	9780.1	9780.1	9780.1	9780.1	9780.1	9780.1	9780.1	9780.1	9780.1
2.5°	9551.6	9560.8	9560.8	9560.8	9579.0	9583.7	9579.0	9583.7	9592.8	9624.8	9638.5
5°	9282.0	9268.3	9277.5	9272.8	9295.7	9309.5	9300.3	9314.0	9346.0	9368.9	9391.7
7.5°	9090.1	9090.1	9090.1	9099.2	9112.9	9140.4	9135.9	9144.9	9176.9	9208.8	9240.8
10°	8939.3	8934.8	8934.8	8957.5	8975.8	9007.7	9017.0	9044.4	9085.4	9126.6	9163.1
12.5°	8742.7	8747.4	8770.2	8793.1	8834.1	8884.3	8911.8	8948.5	9012.5	9080.9	9122.1
15°	8569.1	8573.6	8592.0	8637.5	8688.0	8747.4	8806.7	8866.1	8943.8	9030.7	9103.9
17.5°	8400.0	8404.5	8418.2	8468.6	8532.6	8610.3	8678.7	8756.4	8857.1	8957.5	9048.9
20°	8244.6	8240.1	8262.8	8308.5	8390.9	8463.9	8532.6	8624.0	8733.7	8857.1	8962.0
22.5°	8093.7	8093.7	8116.7	8162.4	8235.5	8308.5	8381.7	8477.6	8587.3	8706.2	8829.6
25°	7970.3	7965.8	7997.8	8020.7	8075.5	8148.6	8226.3	8304.0	8413.7	8546.3	8665.0
27.5°	7837.9	7833.4	7837.9	7865.3	7915.6	7970.3	8029.8	8098.4	8189.8	8299.5	8413.7
30°	7545.4	7549.9	7549.9	7572.8	7600.3	7659.5	7691.5	7760.2	7842.4	7933.8	8034.5
32.5°	7111.2	7115.7	7115.7	7124.9	7147.7	7175.2	7202.6	7252.9	7316.8	7394.5	7485.9
35°	6594.8	6594.8	6590.1	6594.8	6608.6	6608.6	6631.3	6608.6	6640.5	6686.3	6754.7
37.5°	6119.5	6110.3	6101.2	6092.0	6078.3	6055.5	6023.5	5968.6	5954.9	5936.6	5941.1
40°	5699.0	5694.5	5667.1	5644.1	5598.4	5543.7	5466.0	5370.0	5292.3	5200.9	5123.2
42.5°	5232.9	5228.2	5205.4	5164.2	5114.0	5031.8	4908.4	4780.5	4625.1	4488.0	4346.3
45°	4684.4	4698.1	4666.1	4620.4	4561.0	4483.3	4346.3	4190.8	4035.4	3857.2	3678.9
47.5°	4113.1	4108.6	4085.8	4058.3	4008.1	3930.4	3839.0	3669.9	3505.3	3340.9	3158.0
50°	3583.0	3564.7	3555.5	3528.2	3496.3	3432.3	3336.2	3199.0	3052.9	2897.5	2728.4
52.5°	3080.3	3080.3	3057.4	3039.1	3011.7	2961.4	2879.2	2769.6	2646.2	2499.8	2321.7
55°	2659.9	2650.7	2627.9	2605.0	2577.5	2545.5	2472.5	2381.1	2248.5	2106.9	1951.5
57.5°	2212.0	2207.3	2198.3	2170.8	2157.1	2125.1	2042.9	1951.5	1837.3	1713.9	1585.8
60°	1809.8	1791.6	1773.1	1754.9	1732.1	1700.2	1645.2	1567.5	1471.6	1361.9	1234.0
62.5°	1448.8	1476.1	1421.4	1421.4	1375.7	1348.2	1298.0	1252.3	1151.6	1051.2	941.5
65°	1128.9	1128.9	1105.9	1087.7	1060.2	1028.2	978.0	932.3	859.1	781.4	703.7
67.5°	863.8	859.1	836.3	818.1	795.1	776.9	740.4	685.5	630.7	566.8	502.6
70°	635.3	630.7	626.0	594.1	575.8	553.0	525.6	489.1	447.9	402.2	342.7
72.5°	456.9	456.9	443.4	429.6	411.4	393.0	365.7	342.7	306.2	274.3	233.1
75°	292.5	288.0	288.0	265.0	265.0	237.6	219.3	205.6	187.4	169.1	132.6
77.5°	210.3	205.6	201.1	191.9	182.8	173.6	159.9	141.6	127.9	109.7	95.9
80°	141.6	132.6	127.9	127.9	114.2	109.7	114.2	86.9	82.2	68.5	59.4
82.5°	86.9	86.9	82.2	82.2	77.7	73.2	59.4	59.4	54.9	50.2	41.2
85°	45.7	59.4	41.2	45.7	41.2	45.7	41.2	32.0	27.5	22.8	22.8
87.5°	27.5	18.2	18.2	27.5	22.8	18.2	18.2	18.2	13.7	9.2	9.2
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: P249754

CATALOG NUMBER: LD8B175D010 ER8B175935 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9780.1	9780.1	9780.1	9780.1	9780.1	9780.1	9780.1	9780.1	9780.1	9780.1	9780.1
2.5°	9629.5	9661.4	9656.7	9697.9	9711.7	9743.6	9743.6	9766.4	9780.1	9812.1	9839.6
5°	9400.9	9451.1	9464.9	9515.1	9556.3	9606.5	9638.5	9688.7	9734.4	9803.1	9867.0
7.5°	9259.3	9300.3	9327.7	9387.2	9432.9	9487.6	9542.6	9611.0	9675.0	9757.4	9848.8
10°	9190.6	9245.5	9286.5	9346.0	9400.9	9460.3	9515.1	9592.8	9666.0	9771.1	9871.6
12.5°	9172.3	9236.3	9286.5	9368.9	9423.7	9487.6	9551.6	9638.5	9716.2	9825.8	9940.2
15°	9172.3	9259.3	9327.7	9419.1	9483.1	9565.3	9634.0	9720.7	9807.6	9921.8	10031.5
17.5°	9154.1	9259.3	9346.0	9451.1	9533.3	9615.7	9702.4	9784.8	9876.1	9985.9	10109.1
20°	9080.9	9213.5	9318.5	9441.9	9528.8	9620.2	9707.1	9798.4	9894.5	10008.7	10113.8
22.5°	8953.0	9108.4	9227.3	9359.7	9460.3	9551.6	9638.5	9729.9	9835.1	9944.7	10054.4
25°	8783.9	8930.1	9058.2	9195.1	9295.7	9396.2	9478.6	9583.7	9679.7	9784.8	9871.6
27.5°	8527.9	8683.3	8806.7	8948.5	9039.7	9135.9	9204.3	9291.2	9382.7	9469.4	9538.0
30°	8144.1	8285.8	8413.7	8541.6	8633.0	8701.7	8774.7	8843.3	8902.8	8962.0	9021.5
32.5°	7581.9	7710.0	7833.4	7952.1	8025.2	8084.7	8139.4	8180.6	8212.6	8244.6	8249.1
35°	6809.7	6914.6	6992.3	7097.5	7166.1	7220.9	7220.9	7239.1	7234.6	7220.9	7207.1
37.5°	5945.8	5986.9	6018.8	6060.0	6064.5	6064.5	6037.3	6014.3	5977.8	5968.6	5941.1
40°	5045.5	4990.6	4949.4	4894.7	4862.7	4794.0	4734.8	4693.6	4634.1	4625.1	4615.9
42.5°	4190.8	4062.8	3948.7	3852.7	3743.1	3646.9	3560.2	3496.3	3450.5	3445.8	3450.5
45°	3496.3	3349.9	3180.8	3048.4	2925.0	2806.1	2691.9	2614.2	2573.0	2563.8	2573.0
47.5°	2970.7	2801.6	2637.0	2486.1	2353.7	2221.0	2106.9	2001.7	1951.5	1937.7	1933.2
50°	2554.8	2381.1	2207.3	2051.9	1905.8	1773.1	1631.5	1531.0	1467.1	1444.1	1425.9
52.5°	2148.1	1992.7	1814.3	1654.4	1508.1	1352.7	1206.6	1092.2	1028.2	1000.9	982.5
55°	1791.6	1636.2	1471.6	1316.2	1160.8	1005.5	859.1	749.4	681.0	649.0	626.0
57.5°	1430.4	1284.2	1142.6	987.2	859.1	708.4	562.1	466.1	406.7	370.2	352.0
60°	1105.9	991.7	868.3	740.4	617.0	493.6	374.7	283.3	237.6	210.3	187.4
62.5°	836.3	740.4	658.0	548.3	452.4	347.3	256.0	182.8	141.6	118.9	109.7
65°	603.3	530.1	456.9	388.5	320.0	242.3	173.6	118.9	82.2	68.5	64.0
67.5°	429.6	370.2	315.3	269.6	219.3	173.6	123.4	82.2	64.0	54.9	50.2
70°	301.5	256.0	219.3	178.3	146.2	114.2	95.9	59.4	36.5	41.2	32.0
72.5°	201.1	169.1	150.9	123.4	100.5	82.2	59.4	41.2	41.2	32.0	27.5
75°	109.7	100.5	77.7	59.4	50.2	45.7	18.2	9.2	4.5	13.7	4.5
77.5°	77.7	68.5	59.4	50.2	41.2	32.0	18.2	18.2	13.7	18.2	9.2
80°	50.2	41.2	36.5	36.5	22.8	13.7	9.2	9.2	13.7	4.5	4.5
82.5°	32.0	27.5	22.8	22.8	22.8	13.7	13.7	13.7	13.7	9.2	9.2
85°	18.2	13.7	9.2	9.2	4.5	9.2	0.0	4.5	4.5	0.0	0.0
87.5°	9.2	4.5	4.5	4.5	4.5	0.0	0.0	4.5	0.0	4.5	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: P249754

CATALOG NUMBER: LD8B175D010 ER8B175935 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9780.1	9780.1	9780.1	9780.1	9780.1	9780.1	9780.1	9780.1	9780.1	9780.1	9780.1
2.5°	9857.8	9876.1	9899.0	9917.3	9958.5	9967.5	9985.9	10004.2	10017.9	10031.5	10036.2
5°	9921.8	9990.4	10054.4	10122.9	10209.8	10269.2	10337.7	10397.1	10456.6	10506.8	10543.3
7.5°	9940.2	10045.2	10141.3	10260.0	10387.9	10497.8	10612.0	10726.2	10845.0	10936.5	11014.2
10°	9976.7	10104.6	10228.0	10369.7	10534.3	10680.4	10822.1	10973.0	11123.8	11251.7	11366.1
12.5°	10040.7	10182.3	10314.9	10470.3	10639.4	10803.8	10959.2	11128.3	11288.4	11430.1	11558.0
15°	10145.8	10278.3	10406.4	10552.5	10721.6	10872.5	11027.9	11192.3	11352.4	11498.5	11617.4
17.5°	10214.3	10337.7	10465.6	10598.2	10739.9	10877.0	11023.2	11169.5	11315.7	11448.3	11558.0
20°	10214.3	10333.2	10429.1	10548.0	10680.4	10799.3	10918.2	11046.1	11174.0	11283.7	11388.9
22.5°	10132.1	10246.3	10319.5	10410.9	10525.1	10625.7	10689.7	10831.3	10927.2	11023.2	11100.9
25°	9940.2	10022.4	10081.9	10145.8	10237.2	10305.7	10360.7	10442.9	10538.8	10575.5	10630.2
27.5°	9592.8	9652.2	9684.2	9697.9	9743.6	9780.1	9789.4	9825.8	9867.0	9876.1	9899.0
30°	9044.4	9048.9	9035.2	9030.7	9007.7	8980.5	8975.8	8971.3	8953.0	8934.8	8939.3
32.5°	8217.1	8194.4	8139.4	8080.2	8020.7	7956.8	7920.1	7874.4	7846.9	7819.6	7787.7
35°	7147.7	7093.0	7015.3	6942.1	6873.6	6823.2	6741.0	6713.5	6686.3	6649.6	6640.5
37.5°	5890.9	5858.9	5785.8	5731.0	5694.5	5671.6	5630.4	5603.1	5603.1	5589.4	5580.2
40°	4592.9	4583.9	4556.5	4570.2	4551.9	4561.0	4556.5	4547.2	4570.2	4570.2	4579.4
42.5°	3445.8	3450.5	3464.3	3473.3	3500.8	3505.3	3528.2	3528.2	3542.0	3555.5	3564.7
45°	2563.8	2582.2	2582.2	2600.5	2627.9	2632.4	2641.5	2646.2	2655.2	2678.2	2687.2
47.5°	1924.0	1928.5	1928.5	1933.2	1942.3	1951.5	1947.0	1951.5	1965.2	1956.0	1965.2
50°	1421.4	1425.9	1412.2	1398.4	1412.2	1412.2	1407.6	1393.9	1407.6	1389.4	1398.4
52.5°	969.0	964.3	950.5	955.2	946.0	941.5	941.5	932.3	932.3	932.3	914.0
55°	612.5	612.5	603.3	603.3	598.8	589.5	585.0	580.3	575.8	571.3	571.3
57.5°	342.7	347.3	333.7	329.0	333.7	329.0	320.0	320.0	320.0	306.2	315.3
60°	187.4	182.8	178.3	173.6	169.1	173.6	173.6	164.6	164.6	164.6	169.1
62.5°	100.5	100.5	95.9	95.9	91.4	91.4	100.5	86.9	91.4	86.9	91.4
65°	54.9	68.5	50.2	50.2	64.0	59.4	54.9	54.9	59.4	50.2	54.9
67.5°	59.4	41.2	36.5	41.2	36.5	36.5	36.5	45.7	41.2	32.0	41.2
70°	27.5	32.0	32.0	22.8	36.5	18.2	32.0	18.2	27.5	22.8	27.5
72.5°	27.5	27.5	27.5	18.2	27.5	18.2	22.8	22.8	18.2	18.2	27.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.2	9.2	4.5	4.5	4.5	4.5	9.2	9.2	9.2	0.0	4.5
80°	9.2	9.2	0.0	4.5	0.0	0.0	4.5	0.0	4.5	0.0	9.2
82.5°	4.5	9.2	4.5	4.5	9.2	9.2	9.2	4.5	4.5	4.5	4.5
85°	0.0	4.5	0.0	0.0	0.0	0.0	9.2	0.0	0.0	0.0	4.5
87.5°	0.0	4.5	0.0	0.0	0.0	0.0	4.5	4.5	0.0	0.0	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: P249754

CATALOG NUMBER: LD8B175D010 ER8B175935 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9780.1	9780.1	9780.1	9780.1
2.5°	10040.7	10045.2	10054.4	10049.9
5°	10570.8	10607.5	10625.7	10621.2
7.5°	11068.9	11133.0	11169.5	11169.5
10°	11452.8	11526.0	11580.7	11590.0
12.5°	11658.4	11740.8	11814.0	11795.6
15°	11717.9	11800.3	11873.3	11859.5
17.5°	11649.4	11731.6	11786.5	11777.3
20°	11462.0	11530.5	11585.4	11580.7
22.5°	11169.5	11229.0	11274.7	11270.0
25°	10675.9	10717.1	10753.6	10735.4
27.5°	9917.3	9931.0	9953.8	9926.5
30°	8907.3	8916.3	8925.5	8921.0
32.5°	7773.9	7769.2	7760.2	7751.0
35°	6626.8	6626.8	6631.3	6603.9
37.5°	5584.7	5580.2	5593.9	5580.2
40°	4588.4	4583.9	4602.2	4579.4
42.5°	3578.5	3592.2	3596.7	3596.7
45°	2691.9	2696.4	2700.9	2700.9
47.5°	1965.2	1969.7	1992.7	1965.2
50°	1389.4	1393.9	1398.4	1389.4
52.5°	918.6	923.3	918.6	904.8
55°	562.1	566.8	566.8	566.8
57.5°	301.5	306.2	306.2	301.5
60°	164.6	159.9	164.6	155.4
62.5°	86.9	95.9	91.4	82.2
65°	54.9	54.9	54.9	64.0
67.5°	45.7	36.5	41.2	32.0
70°	27.5	32.0	32.0	22.8
72.5°	22.8	22.8	22.8	27.5
75°	0.0	0.0	0.0	0.0
77.5°	9.2	9.2	9.2	4.5
80°	4.5	0.0	4.5	0.0
82.5°	4.5	4.5	9.2	4.5
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)