

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: P248352

Luminaire Tested: **LD8B200D010 ER8B200835 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248352
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: LD8B200D010 ER8B200835 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: 22709.0 lumens
Efficiency: N/A
Efficacy: 101.7 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

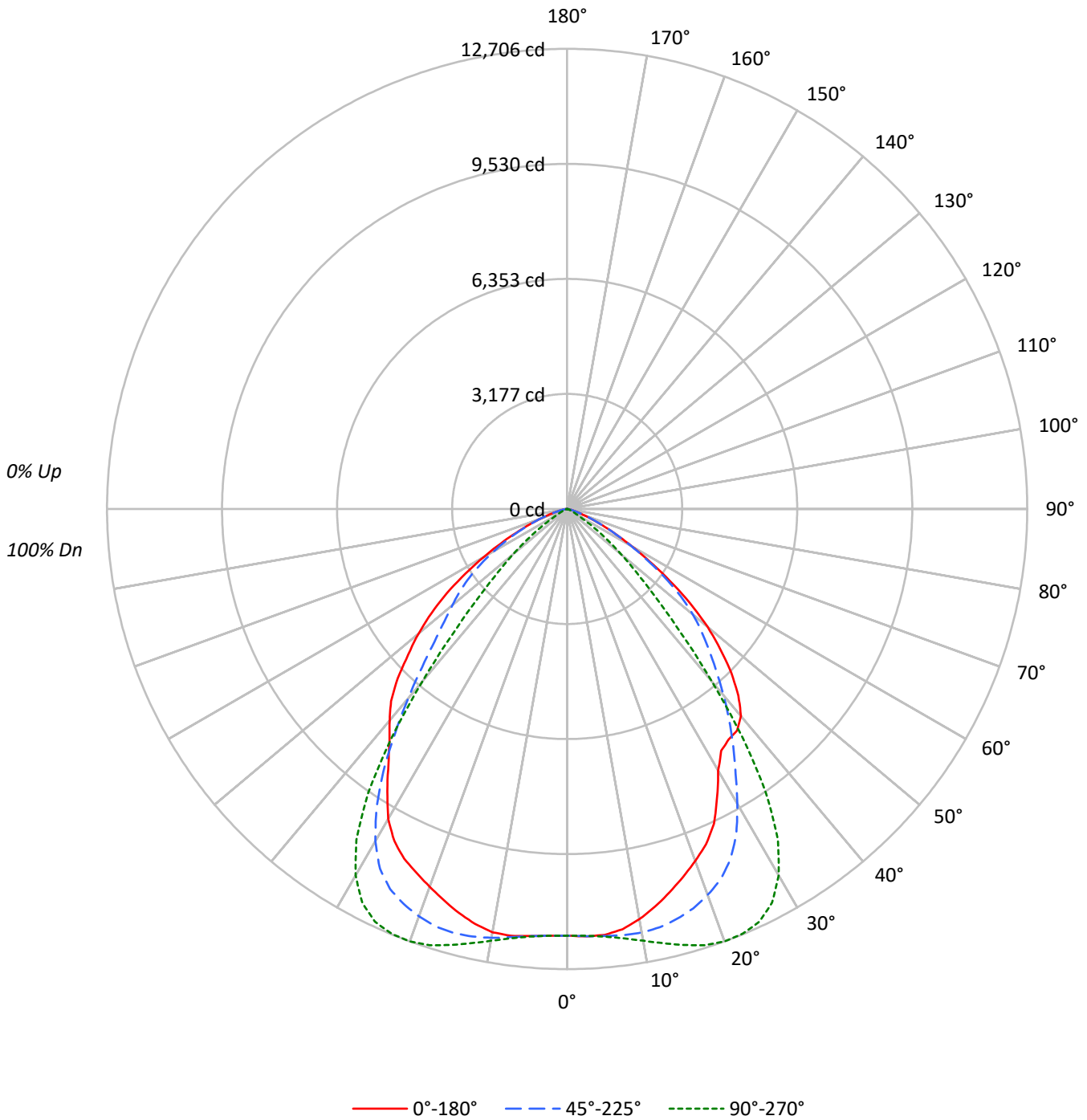
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	363270	363270	363270
5°	365435	366791	366401
10°	360066	379060	371620
15°	349540	397845	368701
20°	339396	416955	364224
25°	326363	427635	362534
30°	297013	415911	351784
35°	292589	360383	323661
40°	300540	249945	306832
45°	279779	151066	288509
50°	242680	93288	257081
55°	186235	48746	218175
60°	126879	19667	164666
65°	78926	10033	113599
70°	42844	6203	69342
75°	22351	2967	40973
80°	9998	3338	22197
85°	6652	2229	19919



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1132.9	5.0
10°-20°	3356.2	14.8
20°-30°	5120.2	22.5
30°-40°	5343.0	23.5
40°-50°	4013.3	17.7
50°-60°	2469.3	10.9
60°-70°	1004.9	4.4
70°-80°	236.8	1.0
80°-90°	32.6	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°	9609.2	42.3
0°-40°	14952.2	65.8
0°-60°	21434.7	94.4
0°-90°	22709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22709.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11781	11781	11781	11781	11781	
5°	11806	11837	11850	11837	11837	###
15°	10949	11718	12462	12118	11549	3084
25°	9592	10668	12569	11574	10655	4361
35°	7772	7991	9573	8848	8598	4908
45°	6416	5553	3464	5171	6616	4895
55°	3464	3289	907	3289	4058	3114
65°	1082	1094	138	1469	1557	1128
75°	188	188	25	331	344	226
85°	19	19	6	44	56	26
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°	11780.6	11780.6	11780.6	11780.6	11780.6	11780.6	11780.6	11780.6	11780.6	11780.6	11780.6
2.5°	11812.0	11793.2	11812.0	11812.0	11818.3	11805.7	11812.0	11818.3	11805.7	11805.7	11805.7
5°	11805.7	11793.2	11805.7	11799.4	11812.0	11812.0	11824.5	11824.5	11836.9	11836.9	11855.7
7.5°	11705.7	11680.7	11705.7	11724.5	11736.9	11762.0	11793.2	11818.3	11843.2	11868.3	11899.5
10°	11499.3	11499.3	11518.1	11555.6	11593.0	11636.8	11693.1	11755.7	11818.3	11874.4	11930.7
12.5°	11243.0	11224.2	11261.6	11311.7	11368.0	11436.8	11524.3	11618.1	11718.2	11830.7	11918.3
15°	10949.1	10930.2	10974.0	11024.0	11092.9	11192.9	11299.3	11424.3	11568.1	11718.2	11862.0
17.5°	10648.9	10642.6	10686.4	10755.2	10811.5	10917.7	11055.4	11205.3	11368.0	11568.1	11755.7
20°	10342.6	10336.3	10380.1	10436.4	10511.3	10611.4	10748.9	10924.0	11117.8	11343.0	11561.8
22.5°	10023.6	10029.8	10067.3	10129.9	10192.5	10298.7	10442.5	10617.7	10830.2	11074.1	11318.0
25°	9592.1	9560.9	9610.9	9673.5	9779.7	9867.2	10004.9	10192.5	10411.3	10667.7	10955.3
27.5°	8966.8	8960.5	9004.4	9060.6	9154.4	9260.7	9410.8	9604.6	9836.0	10117.4	10398.7
30°	8341.5	8354.0	8372.8	8429.1	8491.6	8597.9	8748.0	8910.6	9129.4	9398.2	9698.4
32.5°	7916.3	7916.3	7941.4	7978.9	8022.6	8078.9	8185.3	8304.0	8472.9	8660.5	8879.3
35°	7772.5	7747.5	7772.5	7778.7	7785.0	7797.5	7816.2	7853.9	7910.0	7991.4	8072.6
37.5°	7710.0	7691.2	7691.2	7666.3	7634.9	7597.4	7547.4	7491.1	7428.7	7347.3	7284.8
40°	7466.1	7453.6	7441.1	7416.1	7347.3	7272.3	7190.9	7059.6	6915.8	6715.7	6515.7
42.5°	6997.2	6984.7	6978.4	6928.3	6865.8	6778.3	6684.5	6546.9	6365.6	6109.2	5821.5
45°	6415.6	6390.6	6371.9	6328.1	6284.2	6209.2	6121.7	5996.6	5815.3	5552.7	5208.8
47.5°	5740.3	5727.8	5721.5	5702.8	5659.0	5615.1	5559.0	5458.9	5296.3	5046.1	4689.8
50°	5058.7	5033.7	5046.1	5040.0	5021.2	4990.0	4952.3	4883.6	4758.5	4533.4	4208.3
52.5°	4277.0	4277.0	4270.9	4289.5	4295.8	4289.5	4295.8	4220.8	4114.5	3945.6	3670.5
55°	3464.1	3464.1	3482.9	3508.0	3532.9	3539.2	3532.9	3501.7	3426.6	3289.1	3045.2
57.5°	2701.2	2688.8	2726.3	2763.8	2788.9	2813.8	2795.0	2770.1	2726.3	2613.7	2426.1
60°	2057.3	2057.3	2082.2	2107.3	2132.2	2157.3	2151.0	2144.8	2107.3	2032.2	1882.2
62.5°	1513.2	1519.5	1519.5	1538.3	1563.2	1588.3	1607.0	1588.3	1569.5	1519.5	1419.4
65°	1081.7	1075.4	1081.7	1100.5	1119.4	1144.3	1156.8	1150.6	1131.8	1094.3	1019.3
67.5°	725.4	719.1	744.0	750.3	762.9	788.0	781.7	788.0	781.7	750.3	687.9
70°	475.2	462.7	475.2	468.9	487.8	494.0	506.4	512.7	506.4	487.8	468.9
72.5°	293.9	287.6	293.9	300.2	306.5	312.6	325.1	325.1	318.9	306.5	281.4
75°	187.6	168.8	175.0	162.6	175.0	175.0	187.6	193.9	187.6	187.6	175.0
77.5°	112.6	112.6	112.6	112.6	112.6	112.6	112.6	118.9	125.0	112.6	106.3
80°	56.3	56.3	62.6	62.6	62.6	68.8	62.6	62.6	62.6	68.8	50.0
82.5°	43.8	37.5	37.5	37.5	43.8	37.5	37.5	37.5	37.5	37.5	37.5
85°	18.8	24.9	18.8	12.5	18.8	18.8	24.9	18.8	18.8	18.8	24.9
87.5°	6.3	6.3	0.0	0.0	0.0	6.3	0.0	6.3	6.3	12.5	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	11780.6	11780.6	11780.6	11780.6	11780.6	11780.6	11780.6	11780.6	11780.6	11780.6	11780.6
2.5°	11812.0	11799.4	11799.4	11793.2	11805.7	11793.2	11799.4	11793.2	11793.2	11805.7	11793.2
5°	11855.7	11862.0	11849.5	11843.2	11862.0	11862.0	11862.0	11849.5	11849.5	11855.7	11849.5
7.5°	11918.3	11930.7	11937.0	11943.3	11955.8	11962.1	11962.1	11955.8	11949.5	11968.4	11943.3
10°	11987.0	12005.8	12043.3	12062.1	12093.4	12093.4	12105.9	12105.9	12093.4	12105.9	12099.6
12.5°	11962.1	12074.5	12137.1	12180.9	12224.6	12262.1	12274.7	12280.9	12274.7	12299.8	12274.7
15°	12005.8	12099.6	12199.7	12274.7	12355.9	12399.7	12412.2	12462.2	12474.8	12481.1	12443.6
17.5°	11937.0	12105.9	12212.1	12324.7	12443.6	12524.8	12599.8	12631.2	12637.4	12649.8	12599.8
20°	11780.6	11968.4	12130.8	12293.5	12431.0	12556.0	12618.6	12706.1	12681.2	12731.2	12662.4
22.5°	11568.1	11780.6	11987.0	12199.7	12343.5	12493.6	12624.9	12687.3	12718.7	12718.7	12643.6
25°	11230.4	11480.6	11705.7	11924.5	12143.4	12324.7	12474.8	12568.6	12587.4	12581.1	12493.6
27.5°	10705.2	10974.0	11236.7	11486.9	11755.7	11968.4	12143.4	12255.9	12287.2	12287.2	12193.4
30°	9979.8	10267.4	10523.9	10823.9	11099.2	11336.8	11580.7	11680.7	11736.9	11736.9	11630.7
32.5°	9116.9	9360.8	9598.4	9892.3	10192.5	10461.3	10692.6	10830.2	10899.0	10892.8	10799.0
35°	8179.0	8297.7	8479.2	8698.0	8966.8	9216.9	9442.0	9573.4	9692.2	9685.9	9598.4
37.5°	7240.9	7209.7	7228.5	7309.8	7478.5	7653.7	7828.8	7953.9	8053.8	8097.7	8078.9
40°	6321.9	6159.2	6002.8	5946.7	5959.1	6021.7	6115.5	6209.2	6321.9	6378.2	6403.1
42.5°	5496.4	5221.3	4946.1	4739.8	4620.9	4583.5	4627.2	4658.4	4727.3	4808.5	4889.9
45°	4833.6	4464.7	4102.0	3783.1	3583.0	3464.1	3439.2	3464.1	3501.7	3583.0	3689.3
47.5°	4289.5	3858.1	3451.7	3095.2	2801.3	2645.1	2601.3	2588.8	2626.3	2701.2	2845.1
50°	3808.0	3376.6	2926.5	2513.7	2207.3	2032.2	1969.7	1944.6	1988.4	2044.7	2176.0
52.5°	3282.8	2857.6	2394.9	1994.7	1675.8	1494.5	1425.7	1388.2	1413.1	1488.2	1619.5
55°	2713.8	2319.8	1900.9	1488.2	1181.8	1013.0	931.6	906.7	931.6	1013.0	1144.3
57.5°	2144.8	1813.4	1463.2	1075.4	800.4	631.6	550.2	525.3	594.1	625.3	762.9
60°	1675.8	1407.0	1106.8	788.0	550.2	418.9	337.7	318.9	350.2	406.4	519.0
62.5°	1256.9	1088.0	850.4	562.7	406.4	268.8	225.1	206.4	225.1	268.8	356.5
65°	913.0	781.7	594.1	412.6	275.1	200.1	150.1	137.5	156.4	187.6	262.7
67.5°	625.3	525.3	412.6	287.6	187.6	125.0	106.3	106.3	112.6	137.5	193.9
70°	406.4	343.9	262.7	187.6	125.0	93.8	81.2	68.8	81.2	100.1	131.3
72.5°	256.4	218.8	168.8	131.3	93.8	68.8	56.3	50.0	62.6	75.0	100.1
75°	156.4	118.9	87.5	68.8	50.0	50.0	50.0	24.9	31.2	50.0	62.6
77.5°	93.8	81.2	68.8	56.3	43.8	24.9	24.9	24.9	31.2	37.5	56.3
80°	50.0	43.8	31.2	31.2	24.9	18.8	24.9	18.8	12.5	31.2	37.5
82.5°	31.2	24.9	24.9	24.9	31.2	12.5	18.8	12.5	18.8	24.9	18.8
85°	18.8	18.8	18.8	12.5	31.2	12.5	12.5	6.3	6.3	12.5	12.5
87.5°	0.0	6.3	6.3	0.0	6.3	0.0	6.3	6.3	6.3	6.3	6.3
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°	11780.6	11780.6	11780.6	11780.6	11780.6	11780.6	11780.6	11780.6	11780.6	11780.6	11780.6
2.5°	11799.4	11793.2	11799.4	11793.2	11793.2	11793.2	11799.4	11799.4	11793.2	11793.2	11805.7
5°	11849.5	11849.5	11849.5	11843.2	11836.9	11836.9	11849.5	11849.5	11830.7	11849.5	11849.5
7.5°	11955.8	11937.0	11955.8	11930.7	11918.3	11924.5	11930.7	11918.3	11905.8	11912.1	11912.1
10°	12093.4	12074.5	12074.5	12055.9	12037.1	12024.5	12012.1	11980.8	11949.5	11943.3	11918.3
12.5°	12255.9	12224.6	12206.0	12168.3	12137.1	12093.4	12055.9	12005.8	11943.3	11899.5	11855.7
15°	12418.5	12368.5	12324.7	12262.1	12193.4	12118.3	12037.1	11955.8	11855.7	11768.2	11693.1
17.5°	12549.8	12481.1	12399.7	12299.8	12199.7	12087.1	11968.4	11849.5	11705.7	11593.0	11505.5
20°	12593.5	12493.6	12387.3	12255.9	12124.6	11968.4	11818.3	11661.9	11499.3	11380.5	11280.5
22.5°	12537.4	12418.5	12287.2	12149.7	11974.5	11805.7	11630.7	11449.2	11305.4	11142.9	11049.1
25°	12381.0	12237.2	12093.4	11930.7	11762.0	11574.4	11386.8	11199.2	11024.0	10936.5	10817.8
27.5°	12062.1	11905.8	11749.4	11580.7	11386.8	11199.2	11005.4	10823.9	10674.0	10555.1	10486.4
30°	11499.3	11318.0	11136.6	10955.3	10786.4	10592.6	10411.3	10261.2	10111.1	10017.3	9948.6
32.5°	10636.3	10473.8	10292.5	10117.4	9961.1	9798.5	9648.4	9517.1	9410.8	9348.2	9298.2
35°	9473.4	9310.7	9173.2	9048.2	8916.8	8848.1	8754.3	8679.1	8635.4	8610.4	8604.2
37.5°	8010.1	7916.3	7872.5	7847.6	7822.5	7803.8	7816.2	7847.6	7872.5	7916.3	7966.3
40°	6446.9	6528.1	6553.2	6640.7	6722.0	6828.3	6947.2	7084.7	7197.2	7341.0	7441.1
42.5°	5021.2	5171.3	5346.3	5533.9	5734.0	5927.9	6165.5	6384.3	6584.4	6765.7	6922.1
45°	3858.1	4089.4	4352.1	4620.9	4889.9	5171.3	5458.9	5727.8	5965.4	6159.2	6321.9
47.5°	3007.7	3264.1	3601.8	3933.2	4258.3	4589.7	4908.6	5190.0	5390.1	5577.7	5721.5
50°	2382.4	2676.3	3045.2	3426.6	3783.1	4133.2	4470.8	4733.5	4933.7	5083.8	5190.0
52.5°	1844.6	2194.8	2570.0	2970.2	3351.6	3733.1	4045.7	4289.5	4452.2	4583.5	4664.7
55°	1375.6	1719.6	2119.8	2532.5	2920.2	3289.1	3583.0	3795.6	3939.5	4014.4	4058.2
57.5°	994.2	1306.9	1707.0	2119.8	2469.9	2820.1	3057.7	3251.6	3332.8	3376.6	3395.4
60°	725.4	1013.0	1369.4	1725.9	2057.3	2338.6	2545.0	2676.3	2738.9	2763.8	2757.5
62.5°	531.5	781.7	1088.0	1388.2	1657.0	1888.3	2051.0	2138.5	2169.9	2182.3	2163.6
65°	406.4	600.2	862.9	1094.3	1300.7	1469.4	1588.3	1644.6	1663.3	1657.0	1644.6
67.5°	300.2	450.3	644.1	819.2	969.3	1100.5	1163.1	1213.1	1225.5	1206.9	1188.1
70°	212.7	331.4	468.9	587.8	700.3	775.4	844.1	850.4	850.4	844.1	831.7
72.5°	150.1	231.3	318.9	400.2	468.9	525.3	550.2	569.0	562.7	556.5	544.1
75°	100.1	143.8	231.3	250.2	312.6	331.4	356.5	356.5	362.6	343.9	343.9
77.5°	62.6	100.1	137.5	162.6	187.6	212.7	225.1	225.1	231.3	225.1	225.1
80°	37.5	62.6	75.0	112.6	112.6	131.3	137.5	143.8	131.3	150.1	131.3
82.5°	24.9	37.5	56.3	56.3	68.8	81.2	81.2	87.5	87.5	81.2	81.2
85°	18.8	24.9	31.2	37.5	37.5	43.8	37.5	37.5	43.8	50.0	43.8
87.5°	6.3	12.5	6.3	12.5	12.5	24.9	18.8	18.8	18.8	24.9	24.9
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: P248352

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	11780.6	11780.6	11780.6	11780.6
2.5°	11793.2	11799.4	11793.2	11793.2
5°	11849.5	11843.2	11849.5	11836.9
7.5°	11893.2	11893.2	11887.0	11887.0
10°	11893.2	11868.3	11868.3	11868.3
12.5°	11799.4	11768.2	11749.4	11736.9
15°	11636.8	11580.7	11555.6	11549.3
17.5°	11424.3	11374.3	11343.0	11324.2
20°	11180.4	11130.4	11092.9	11099.2
22.5°	10967.7	10911.6	10886.5	10873.9
25°	10755.2	10686.4	10667.7	10655.2
27.5°	10411.3	10373.8	10355.0	10336.3
30°	9886.0	9867.2	9836.0	9879.7
32.5°	9279.5	9248.2	9223.2	9242.0
35°	8610.4	8591.6	8610.4	8597.9
37.5°	7997.7	8016.3	8041.4	8053.8
40°	7516.2	7584.9	7610.0	7622.4
42.5°	7034.7	7115.9	7166.0	7197.2
45°	6440.6	6521.8	6578.1	6615.8
47.5°	5827.8	5896.7	5952.8	5946.7
50°	5271.3	5308.8	5333.8	5358.9
52.5°	4708.5	4708.5	4714.7	4714.7
55°	4070.7	4058.2	4051.9	4058.2
57.5°	3370.3	3357.9	3351.6	3332.8
60°	2732.6	2695.1	2670.0	2670.0
62.5°	2138.5	2094.7	2076.1	2069.8
65°	1607.0	1600.7	1563.2	1556.9
67.5°	1163.1	1138.0	1113.1	1119.4
70°	819.2	781.7	781.7	769.1
72.5°	531.5	512.7	506.4	506.4
75°	331.4	331.4	318.9	343.9
77.5°	218.8	218.8	212.7	218.8
80°	131.3	131.3	131.3	125.0
82.5°	81.2	87.5	81.2	81.2
85°	43.8	50.0	37.5	56.3
87.5°	24.9	31.2	24.9	31.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)