

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: P248334

Luminaire Tested: **LD8B200D010 ER8B200827 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248334
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 ER8B200827 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21305.0 lumens
Efficiency: N/A
Efficacy: 95.4 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

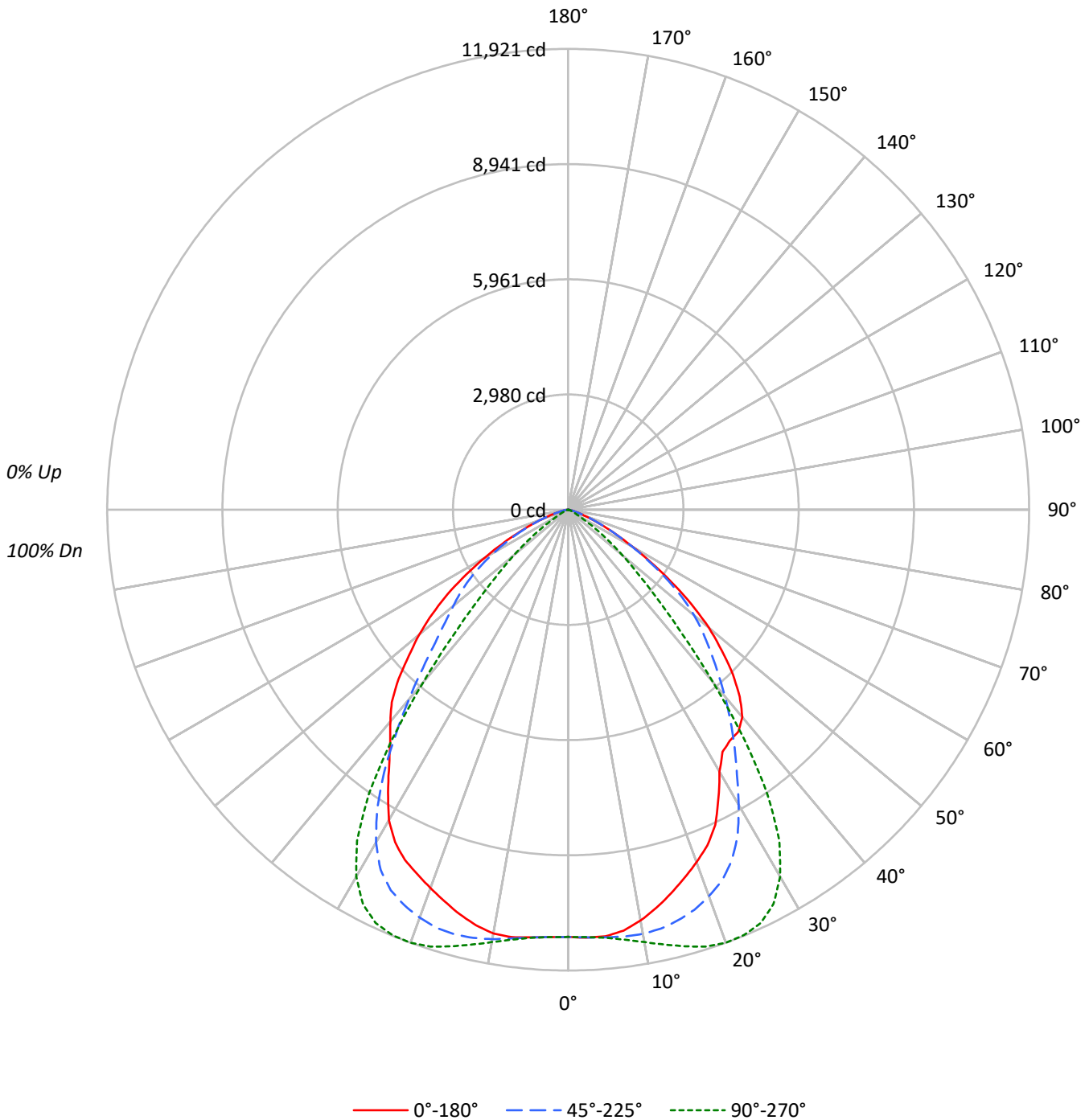
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248334

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBDW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P248334

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBDW0LI

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°	340812	340812	340812
5°	342841	344114	343748
10°	337803	355623	348644
15°	327928	373250	345904
20°	318410	391178	341703
25°	306186	401195	340119
30°	278651	390196	330035
35°	274498	338101	303649
40°	281959	234495	287860
45°	262483	141725	270669
50°	227674	87522	241183
55°	174719	45730	204686
60°	119034	18446	154484
65°	74045	9412	106580
70°	40193	5824	65059
75°	20969	2788	38447
80°	9376	3143	20830
85°	6262	2087	18681



TEST NUMBER: P248334

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBDW0LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1062.9	5.0
10°-20°	3148.7	14.8
20°-30°	4803.6	22.5
30°-40°	5012.6	23.5
40°-50°	3765.1	17.7
50°-60°	2316.6	10.9
60°-70°	942.8	4.4
70°-80°	222.1	1.0
80°-90°	30.6	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°	9015.1	42.3
0°-40°	14027.8	65.8
0°-60°	20109.5	94.4
0°-90°	21305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21305.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11052	11052	11052	11052	11052	
5°	11076	11105	11117	11105	11105	###
15°	10272	10994	11692	11369	10835	2894
25°	8999	10008	11792	10859	9996	4091
35°	7292	7497	8982	8301	8066	4604
45°	6019	5209	3250	4852	6207	4592
55°	3250	3086	851	3086	3807	2921
65°	1015	1027	129	1379	1461	1058
75°	176	176	23	311	323	212
85°	18	18	6	41	53	25
90°	0	0	0	0	0	



TEST NUMBER: P248334

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBDW0LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	11052.3	11052.3	11052.3	11052.3	11052.3	11052.3	11052.3	11052.3	11052.3	11052.3	11052.3
2.5°	11081.7	11064.1	11081.7	11081.7	11087.6	11075.8	11081.7	11087.6	11075.8	11075.8	11075.8
5°	11075.8	11064.1	11075.8	11069.9	11081.7	11081.7	11093.5	11093.5	11105.1	11105.1	11122.8
7.5°	10981.9	10958.5	10981.9	10999.6	11011.2	11034.8	11064.1	11087.6	11111.0	11134.5	11163.8
10°	10788.3	10788.3	10806.0	10841.1	10876.3	10917.4	10970.2	11028.9	11087.6	11140.3	11193.1
12.5°	10547.9	10530.2	10565.4	10612.3	10665.1	10729.7	10811.8	10899.8	10993.7	11099.2	11181.5
15°	10272.1	10254.5	10295.5	10342.5	10407.1	10500.9	10600.7	10718.0	10852.9	10993.7	11128.6
17.5°	9990.5	9984.6	10025.7	10090.3	10143.1	10242.7	10371.9	10512.6	10665.1	10852.9	11028.9
20°	9703.1	9697.2	9738.3	9791.1	9861.5	9955.3	10084.4	10248.6	10430.5	10641.7	10847.0
22.5°	9403.8	9409.7	9444.9	9503.6	9562.3	9661.9	9796.9	9961.2	10160.6	10389.4	10618.2
25°	8999.1	8969.8	9016.7	9075.4	9175.0	9257.2	9386.3	9562.3	9767.6	10008.2	10278.0
27.5°	8412.4	8406.5	8447.7	8500.4	8588.4	8688.2	8829.0	9010.8	9227.9	9491.8	9755.8
30°	7825.8	7837.5	7855.2	7908.0	7966.6	8066.3	8207.1	8359.7	8565.0	8817.2	9098.8
32.5°	7426.9	7426.9	7450.4	7485.6	7526.6	7579.4	7679.2	7790.6	7949.1	8125.0	8330.3
35°	7291.9	7268.5	7291.9	7297.8	7303.7	7315.5	7333.0	7368.3	7421.0	7497.3	7573.5
37.5°	7233.4	7215.7	7215.7	7192.3	7162.9	7127.7	7080.8	7027.9	6969.4	6893.0	6834.4
40°	7004.5	6992.8	6981.0	6957.6	6893.0	6822.7	6746.3	6623.2	6488.2	6300.5	6112.9
42.5°	6564.6	6552.8	6546.9	6500.0	6441.3	6359.2	6271.2	6142.1	5972.1	5731.5	5461.6
45°	6019.0	5995.5	5977.9	5936.9	5895.7	5825.4	5743.2	5625.8	5455.7	5209.4	4886.7
47.5°	5385.4	5373.6	5367.7	5350.2	5309.2	5268.0	5215.3	5121.4	4968.8	4734.2	4399.8
50°	4745.9	4722.5	4734.2	4728.4	4710.8	4681.5	4646.2	4581.7	4464.3	4253.1	3948.1
52.5°	4012.6	4012.6	4006.8	4024.3	4030.2	4024.3	4030.2	3959.9	3860.1	3701.7	3443.6
55°	3249.9	3249.9	3267.6	3291.1	3314.5	3320.4	3314.5	3285.2	3214.8	3085.7	2856.9
57.5°	2534.2	2522.6	2557.8	2592.9	2616.5	2639.9	2622.2	2598.8	2557.8	2452.1	2276.1
60°	1930.1	1930.1	1953.5	1977.0	2000.4	2023.9	2018.1	2012.2	1977.0	1906.5	1765.8
62.5°	1419.6	1425.5	1425.5	1443.2	1466.6	1490.1	1507.6	1490.1	1472.5	1425.5	1331.6
65°	1014.8	1009.0	1014.8	1032.5	1050.1	1073.5	1085.3	1079.4	1061.8	1026.6	956.3
67.5°	680.5	674.6	698.0	703.9	715.7	739.2	733.4	739.2	733.4	703.9	645.4
70°	445.8	434.1	445.8	440.0	457.6	463.5	475.1	481.0	475.1	457.6	440.0
72.5°	275.7	269.9	275.7	281.6	287.5	293.3	305.0	305.0	299.1	287.5	264.0
75°	176.0	158.3	164.2	152.6	164.2	164.2	176.0	181.9	176.0	176.0	164.2
77.5°	105.6	105.6	105.6	105.6	105.6	105.6	105.6	111.5	117.3	105.6	99.8
80°	52.8	52.8	58.7	58.7	58.7	64.6	58.7	58.7	58.7	64.6	46.9
82.5°	41.1	35.2	35.2	35.2	41.1	35.2	35.2	35.2	35.2	35.2	35.2
85°	17.7	23.4	17.7	11.8	17.7	17.7	23.4	17.7	17.7	17.7	23.4
87.5°	5.9	5.9	0.0	0.0	0.0	5.9	0.0	5.9	5.9	11.8	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: P248334

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	11052.3	11052.3	11052.3	11052.3	11052.3	11052.3	11052.3	11052.3	11052.3	11052.3	11052.3
2.5°	11081.7	11069.9	11069.9	11064.1	11075.8	11064.1	11069.9	11064.1	11064.1	11075.8	11064.1
5°	11122.8	11128.6	11116.9	11111.0	11128.6	11128.6	11128.6	11116.9	11116.9	11122.8	11116.9
7.5°	11181.5	11193.1	11199.0	11204.9	11216.6	11222.5	11222.5	11216.6	11210.8	11228.4	11204.9
10°	11245.9	11263.6	11298.7	11316.4	11345.7	11345.7	11357.4	11357.4	11345.7	11357.4	11351.6
12.5°	11222.5	11328.0	11386.7	11427.8	11468.8	11504.0	11515.8	11521.7	11515.8	11539.3	11515.8
15°	11263.6	11351.6	11445.4	11515.8	11592.0	11633.1	11644.8	11691.8	11703.5	11709.4	11674.2
17.5°	11199.0	11357.4	11457.1	11562.7	11674.2	11750.5	11820.8	11850.2	11856.1	11867.7	11820.8
20°	11052.3	11228.4	11380.8	11533.4	11662.5	11779.8	11838.5	11920.6	11897.2	11944.1	11879.5
22.5°	10852.9	11052.3	11245.9	11445.4	11580.4	11721.2	11844.3	11902.9	11932.3	11932.3	11861.9
25°	10536.1	10770.8	10981.9	11187.2	11392.6	11562.7	11703.5	11791.5	11809.2	11803.3	11721.2
27.5°	10043.3	10295.5	10542.0	10776.7	11028.9	11228.4	11392.6	11498.1	11527.5	11527.5	11439.6
30°	9362.8	9632.7	9873.2	10154.7	10412.9	10635.9	10864.7	10958.5	11011.2	11011.2	10911.6
32.5°	8553.2	8782.0	9004.9	9280.7	9562.3	9814.5	10031.6	10160.6	10225.2	10219.3	10131.3
35°	7673.3	7784.7	7954.9	8160.2	8412.4	8647.1	8858.2	8981.5	9092.9	9087.1	9004.9
37.5°	6793.3	6764.0	6781.6	6857.8	7016.2	7180.5	7344.7	7462.2	7555.9	7597.1	7579.4
40°	5931.0	5778.4	5631.7	5579.0	5590.7	5649.4	5737.4	5825.4	5931.0	5983.8	6007.2
42.5°	5156.6	4898.5	4640.3	4446.8	4335.2	4300.1	4341.1	4370.4	4435.0	4511.2	4587.6
45°	4534.8	4188.7	3848.4	3549.2	3361.5	3249.9	3226.5	3249.9	3285.2	3361.5	3461.2
47.5°	4024.3	3619.5	3238.3	2903.9	2628.1	2481.5	2440.5	2428.7	2463.9	2534.2	2669.2
50°	3572.6	3167.8	2745.5	2358.2	2070.9	1906.5	1848.0	1824.4	1865.5	1918.3	2041.5
52.5°	3079.8	2680.9	2246.9	1871.4	1572.2	1402.1	1337.5	1302.4	1325.8	1396.2	1519.4
55°	2546.0	2176.4	1783.4	1396.2	1108.7	950.4	874.0	850.6	874.0	950.4	1073.5
57.5°	2012.2	1701.3	1372.7	1009.0	750.9	592.5	516.2	492.8	557.4	586.7	715.7
60°	1572.2	1320.0	1038.4	739.2	516.2	393.0	316.8	299.1	328.6	381.3	486.9
62.5°	1179.2	1020.7	797.8	527.9	381.3	252.2	211.2	193.6	211.2	252.2	334.4
65°	856.5	733.4	557.4	387.1	258.1	187.8	140.8	129.0	146.7	176.0	246.5
67.5°	586.7	492.8	387.1	269.9	176.0	117.3	99.8	99.8	105.6	129.0	181.9
70°	381.3	322.7	246.5	176.0	117.3	88.0	76.2	64.6	76.2	93.9	123.2
72.5°	240.6	205.3	158.3	123.2	88.0	64.6	52.8	46.9	58.7	70.3	93.9
75°	146.7	111.5	82.1	64.6	46.9	46.9	46.9	23.4	29.3	46.9	58.7
77.5°	88.0	76.2	64.6	52.8	41.1	23.4	23.4	23.4	29.3	35.2	52.8
80°	46.9	41.1	29.3	29.3	23.4	17.7	23.4	17.7	11.8	29.3	35.2
82.5°	29.3	23.4	23.4	23.4	29.3	11.8	17.7	11.8	17.7	23.4	17.7
85°	17.7	17.7	17.7	11.8	29.3	11.8	11.8	5.9	5.9	11.8	11.8
87.5°	0.0	5.9	5.9	0.0	5.9	0.0	5.9	5.9	5.9	5.9	5.9
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: P248334

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBDW01I

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	11052.3	11052.3	11052.3	11052.3	11052.3	11052.3	11052.3	11052.3	11052.3	11052.3	11052.3
2.5°	11069.9	11064.1	11069.9	11064.1	11064.1	11064.1	11069.9	11069.9	11064.1	11064.1	11075.8
5°	11116.9	11116.9	11116.9	11111.0	11105.1	11105.1	11116.9	11116.9	11099.2	11116.9	11116.9
7.5°	11216.6	11199.0	11216.6	11193.1	11181.5	11187.2	11193.1	11181.5	11169.7	11175.6	11175.6
10°	11345.7	11328.0	11328.0	11310.5	11292.9	11281.1	11269.5	11240.0	11210.8	11204.9	11181.5
12.5°	11498.1	11468.8	11451.3	11416.0	11386.7	11345.7	11310.5	11263.6	11204.9	11163.8	11122.8
15°	11650.7	11603.8	11562.7	11504.0	11439.6	11369.1	11292.9	11216.6	11122.8	11040.7	10970.2
17.5°	11773.9	11709.4	11633.1	11539.3	11445.4	11339.8	11228.4	11116.9	10981.9	10876.3	10794.2
20°	11814.9	11721.2	11621.4	11498.1	11375.0	11228.4	11087.6	10940.9	10788.3	10676.9	10583.0
22.5°	11762.2	11650.7	11527.5	11398.5	11234.2	11075.8	10911.6	10741.4	10606.4	10454.0	10366.0
25°	11615.5	11480.6	11345.7	11193.1	11034.8	10858.8	10682.8	10506.8	10342.5	10260.4	10149.0
27.5°	11316.4	11169.7	11023.0	10864.7	10682.8	10506.8	10325.0	10154.7	10014.0	9902.5	9838.1
30°	10788.3	10618.2	10448.1	10278.0	10119.5	9937.7	9767.6	9626.8	9486.0	9398.0	9333.5
32.5°	9978.7	9826.3	9656.2	9491.8	9345.3	9192.7	9051.9	8928.7	8829.0	8770.3	8723.3
35°	8887.7	8735.1	8606.0	8488.8	8365.5	8301.0	8213.0	8142.5	8101.5	8078.1	8072.2
37.5°	7514.8	7426.9	7385.8	7362.4	7338.9	7321.3	7333.0	7362.4	7385.8	7426.9	7473.8
40°	6048.3	6124.5	6148.0	6230.1	6306.4	6406.1	6517.7	6646.7	6752.2	6887.1	6981.0
42.5°	4710.8	4851.6	5015.8	5191.8	5379.5	5561.4	5784.3	5989.6	6177.3	6347.4	6494.1
45°	3619.5	3836.6	4083.0	4335.2	4587.6	4851.6	5121.4	5373.6	5596.5	5778.4	5931.0
47.5°	2821.7	3062.3	3379.1	3690.0	3995.1	4306.0	4605.1	4869.1	5056.8	5232.8	5367.7
50°	2235.1	2510.8	2856.9	3214.8	3549.2	3877.6	4194.4	4440.9	4628.6	4769.5	4869.1
52.5°	1730.5	2059.1	2411.1	2786.6	3144.4	3502.3	3795.5	4024.3	4176.9	4300.1	4376.3
55°	1290.6	1613.3	1988.8	2375.9	2739.6	3085.7	3361.5	3561.0	3695.9	3766.2	3807.3
57.5°	932.7	1226.1	1601.5	1988.8	2317.2	2645.8	2868.7	3050.5	3126.8	3167.8	3185.5
60°	680.5	950.4	1284.7	1619.1	1930.1	2194.0	2387.7	2510.8	2569.5	2592.9	2587.1
62.5°	498.7	733.4	1020.7	1302.4	1554.6	1771.6	1924.2	2006.3	2035.7	2047.3	2029.8
65°	381.3	563.1	809.6	1026.6	1220.2	1378.6	1490.1	1542.9	1560.4	1554.6	1542.9
67.5°	281.6	422.4	604.3	768.5	909.3	1032.5	1091.2	1138.1	1149.8	1132.3	1114.6
70°	199.5	310.9	440.0	551.5	657.0	727.5	791.9	797.8	797.8	791.9	780.3
72.5°	140.8	217.0	299.1	375.5	440.0	492.8	516.2	533.8	527.9	522.1	510.4
75°	93.9	134.9	217.0	234.7	293.3	310.9	334.4	334.4	340.2	322.7	322.7
77.5°	58.7	93.9	129.0	152.6	176.0	199.5	211.2	211.2	217.0	211.2	211.2
80°	35.2	58.7	70.3	105.6	105.6	123.2	129.0	134.9	123.2	140.8	123.2
82.5°	23.4	35.2	52.8	52.8	64.6	76.2	76.2	82.1	82.1	76.2	76.2
85°	17.7	23.4	29.3	35.2	35.2	41.1	35.2	35.2	41.1	46.9	41.1
87.5°	5.9	11.8	5.9	11.8	11.8	23.4	17.7	17.7	17.7	23.4	23.4
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: P248334

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	11052.3	11052.3	11052.3	11052.3
2.5°	11064.1	11069.9	11064.1	11064.1
5°	11116.9	11111.0	11116.9	11105.1
7.5°	11157.9	11157.9	11152.0	11152.0
10°	11157.9	11134.5	11134.5	11134.5
12.5°	11069.9	11040.7	11023.0	11011.2
15°	10917.4	10864.7	10841.1	10835.2
17.5°	10718.0	10671.0	10641.7	10624.1
20°	10489.2	10442.2	10407.1	10412.9
22.5°	10289.6	10237.0	10213.4	10201.7
25°	10090.3	10025.7	10008.2	9996.4
27.5°	9767.6	9732.4	9714.8	9697.2
30°	9274.8	9257.2	9227.9	9268.9
32.5°	8705.8	8676.4	8653.0	8670.6
35°	8078.1	8060.4	8078.1	8066.3
37.5°	7503.2	7520.7	7544.3	7555.9
40°	7051.5	7115.9	7139.5	7151.1
42.5°	6599.8	6676.0	6722.9	6752.2
45°	6042.4	6118.6	6171.4	6206.7
47.5°	5467.5	5532.1	5584.8	5579.0
50°	4945.4	4980.6	5004.0	5027.5
52.5°	4417.4	4417.4	4423.2	4423.2
55°	3819.1	3807.3	3801.4	3807.3
57.5°	3161.9	3150.3	3144.4	3126.8
60°	2563.7	2528.5	2504.9	2504.9
62.5°	2006.3	1965.2	1947.7	1941.8
65°	1507.6	1501.7	1466.6	1460.7
67.5°	1091.2	1067.7	1044.3	1050.1
70°	768.5	733.4	733.4	721.6
72.5°	498.7	481.0	475.1	475.1
75°	310.9	310.9	299.1	322.7
77.5°	205.3	205.3	199.5	205.3
80°	123.2	123.2	123.2	117.3
82.5°	76.2	82.1	76.2	76.2
85°	41.1	46.9	35.2	52.8
87.5°	23.4	29.3	23.4	29.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)