

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: P249378

Luminaire Tested: **LD8B200D010 ER8B200940 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200940 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19079.0 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

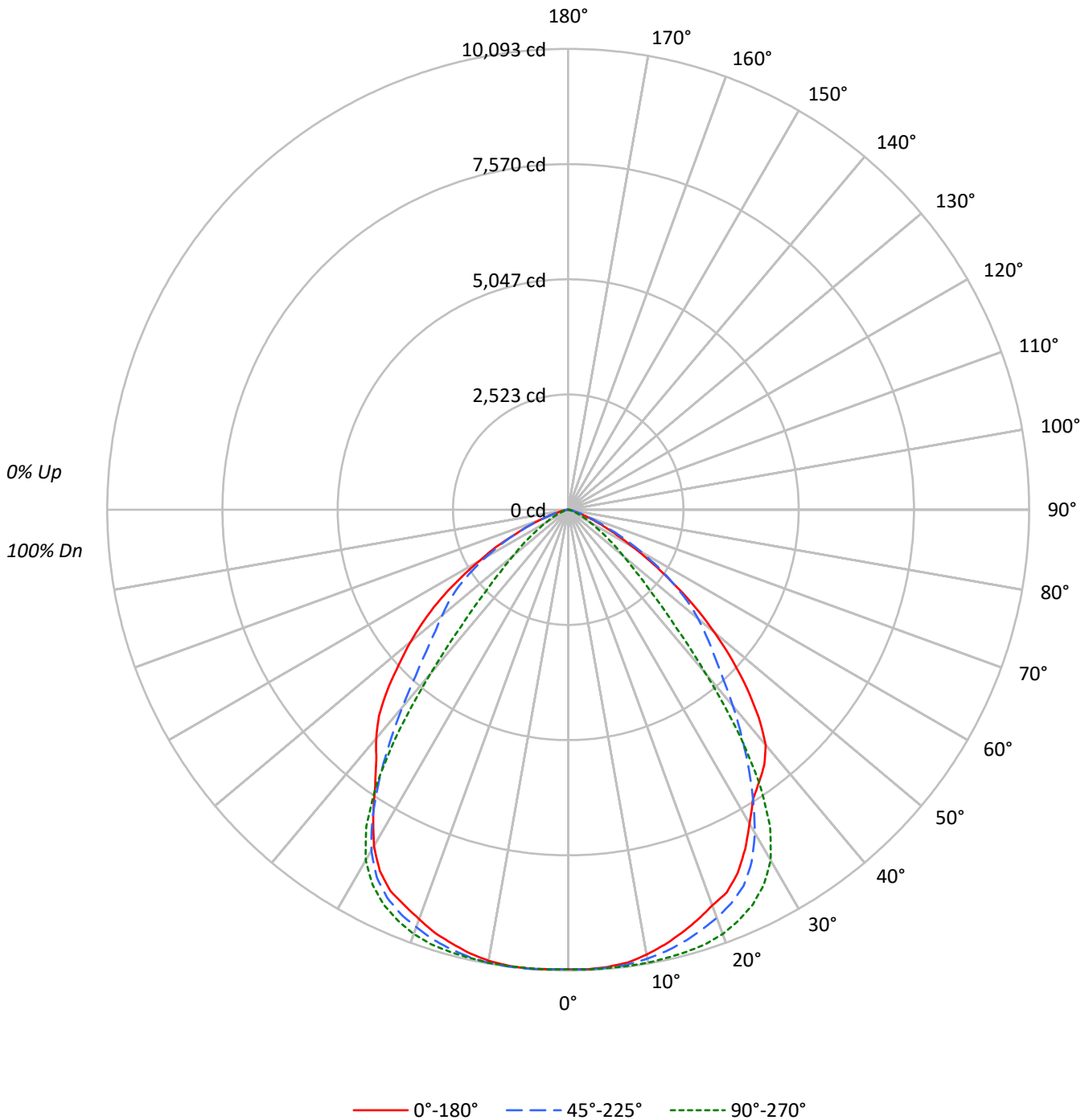
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	310414	310414	310414
5°	311095	311934	312268
10°	309785	315371	314016
15°	306353	319982	313948
20°	302675	324481	313137
25°	298745	324855	313457
30°	282632	315721	302831
35°	274193	274392	277242
40°	270796	188795	263184
45°	241294	113340	244591
50°	200632	75432	216185
55°	150473	52003	183300
60°	101970	34654	138295
65°	61509	22480	95015
70°	34107	12181	58459
75°	15453	5147	30262
80°	13425	5754	21114
85°	15284	7642	21052



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	960.7	5.0
10°-20°	2790.0	14.6
20°-30°	4234.7	22.2
30°-40°	4447.7	23.3
40°-50°	3334.6	17.5
50°-60°	2139.6	11.2
60°-70°	915.3	4.8
70°-80°	216.2	1.1
80°-90°	40.2	0.2
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°	7985.4	41.9
0°-40°	12433.1	65.2
0°-60°	17907.3	93.9
0°-90°	19079.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19079.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10066	10066	10066	10066	10066	
5°	10050	10066	10077	10093	10088	955
15°	9596	9796	10023	9958	9834	2707
25°	8780	9088	9548	9375	9213	4011
35°	7284	6878	7289	7203	7365	4571
45°	5533	4523	2599	4393	5609	4237
55°	2799	2799	967	2918	3410	2539
65°	843	994	308	1281	1302	900
75°	130	151	43	259	254	189
85°	43	27	22	43	60	46
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°	10066.5	10066.5	10066.5	10066.5	10066.5	10066.5	10066.5	10066.5	10066.5	10066.5	10066.5
2.5°	10071.9	10082.7	10077.3	10077.3	10071.9	10077.3	10077.3	10088.1	10088.1	10077.3	10071.9
5°	10050.2	10061.0	10061.0	10050.2	10050.2	10077.3	10061.0	10071.9	10071.9	10066.5	10066.5
7.5°	10001.7	10001.7	10023.2	10007.1	10007.1	10023.2	10017.8	10028.6	10039.5	10044.9	10044.9
10°	9893.5	9904.4	9909.8	9909.8	9915.2	9931.3	9942.2	9963.9	9974.6	9985.4	9990.8
12.5°	9758.5	9774.7	9780.1	9774.7	9790.9	9812.5	9839.6	9866.6	9882.8	9904.4	9920.6
15°	9596.3	9596.3	9607.2	9623.4	9634.3	9666.6	9693.6	9726.0	9769.2	9796.3	9823.3
17.5°	9418.1	9428.9	9445.1	9445.1	9466.7	9520.7	9536.9	9585.6	9634.3	9661.2	9715.3
20°	9223.6	9234.3	9250.6	9261.4	9288.4	9331.6	9364.0	9407.2	9461.3	9510.0	9563.9
22.5°	9072.2	9050.7	9061.4	9072.2	9099.3	9137.1	9175.0	9228.9	9283.0	9331.6	9385.7
25°	8780.4	8785.9	8802.1	8812.8	8845.3	8877.7	8921.0	8985.8	9034.4	9088.5	9147.9
27.5°	8386.0	8391.5	8418.4	8418.4	8445.4	8499.5	8526.5	8580.5	8645.4	8699.4	8769.7
30°	7937.6	7948.3	7948.3	7970.0	7986.1	8013.2	8040.2	8094.3	8126.6	8175.3	8272.6
32.5°	7526.9	7537.6	7532.2	7526.9	7510.7	7505.3	7499.8	7510.7	7521.5	7537.6	7575.5
35°	7283.8	7256.7	7235.1	7197.3	7154.1	7100.0	7051.4	6986.6	6927.1	6878.4	6824.5
37.5°	7051.4	7046.0	7013.6	6959.5	6873.0	6775.8	6662.4	6521.9	6381.3	6230.1	6084.2
40°	6727.2	6710.9	6684.0	6608.3	6511.0	6392.2	6240.9	6068.0	5841.0	5608.7	5371.0
42.5°	6176.0	6181.4	6149.0	6089.5	5997.8	5884.2	5727.5	5538.5	5295.3	5019.7	4711.8
45°	5533.1	5533.1	5522.2	5473.6	5408.8	5316.9	5198.0	5041.4	4803.6	4522.6	4193.0
47.5°	4863.0	4868.4	4852.2	4841.5	4814.4	4755.0	4668.5	4549.7	4382.2	4111.9	3782.3
50°	4182.2	4182.2	4209.2	4203.8	4203.8	4182.2	4144.4	4074.1	3928.3	3712.1	3404.2
52.5°	3501.4	3512.2	3528.5	3550.0	3577.0	3620.2	3577.0	3544.6	3452.7	3285.2	3020.5
55°	2798.9	2809.8	2836.7	2874.5	2907.1	2950.3	2961.0	2961.0	2912.4	2798.9	2599.0
57.5°	2199.2	2182.9	2204.6	2237.0	2280.3	2323.5	2355.9	2393.7	2388.3	2312.6	2150.6
60°	1653.4	1658.9	1675.0	1707.5	1739.9	1777.7	1820.9	1853.3	1869.6	1831.8	1729.1
62.5°	1205.0	1205.0	1226.5	1258.9	1275.2	1329.3	1356.2	1372.5	1388.6	1383.2	1318.4
65°	843.0	853.7	864.5	880.8	896.9	929.3	945.6	978.0	988.8	994.2	945.6
67.5°	594.4	578.2	589.0	599.7	616.0	637.7	670.0	670.0	686.2	686.2	653.8
70°	378.3	378.3	383.7	399.8	410.6	416.1	426.9	437.6	453.9	448.5	448.5
72.5°	254.0	248.6	254.0	259.4	264.8	281.0	281.0	286.4	297.2	302.6	281.0
75°	129.7	135.1	145.8	140.5	156.7	145.8	151.3	167.5	162.1	151.3	151.3
77.5°	108.0	108.0	108.0	102.7	113.4	113.4	108.0	118.9	113.4	113.4	108.0
80°	75.6	81.0	75.6	70.2	75.6	70.2	70.2	70.2	70.2	70.2	64.8
82.5°	59.5	48.7	54.1	48.7	54.1	54.1	48.7	43.2	43.2	48.7	43.2
85°	43.2	32.4	37.8	37.8	32.4	32.4	32.4	32.4	32.4	27.0	27.0
87.5°	27.0	16.3	16.3	16.3	21.6	21.6	21.6	16.3	21.6	21.6	10.8
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°	10066.5	10066.5	10066.5	10066.5	10066.5	10066.5	10066.5	10066.5	10066.5	10066.5	10066.5
2.5°	10082.7	10077.3	10088.1	10082.7	10082.7	10077.3	10082.7	10077.3	10088.1	10066.5	10071.9
5°	10082.7	10071.9	10077.3	10082.7	10088.1	10077.3	10077.3	10077.3	10088.1	10077.3	10082.7
7.5°	10061.0	10055.6	10071.9	10082.7	10077.3	10071.9	10082.7	10077.3	10088.1	10082.7	10093.4
10°	10017.8	10023.2	10034.1	10050.2	10055.6	10061.0	10071.9	10071.9	10088.1	10066.5	10077.3
12.5°	9953.0	9974.6	10001.7	10012.4	10034.1	10034.1	10044.9	10050.2	10061.0	10055.6	10071.9
15°	9872.0	9898.9	9931.3	9958.4	9985.4	10001.7	10017.8	10023.2	10039.5	10023.2	10028.6
17.5°	9774.7	9807.1	9855.7	9888.1	9931.3	9947.6	9969.2	9980.0	9996.2	9985.4	9990.8
20°	9639.5	9677.5	9731.4	9780.1	9807.1	9844.9	9872.0	9888.1	9898.9	9888.1	9893.5
22.5°	9450.5	9504.6	9574.8	9612.6	9666.6	9699.0	9704.5	9742.3	9769.2	9742.3	9753.1
25°	9228.9	9283.0	9337.0	9418.1	9466.7	9504.6	9542.4	9547.8	9574.8	9569.3	9563.9
27.5°	8861.5	8931.8	9023.6	9088.5	9153.3	9212.8	9256.0	9266.7	9293.8	9283.0	9288.4
30°	8358.9	8434.7	8521.2	8623.8	8715.6	8775.0	8829.1	8866.9	8893.9	8877.7	8872.3
32.5°	7645.8	7721.4	7813.3	7915.9	8024.0	8110.4	8175.3	8224.0	8256.3	8245.5	8218.5
35°	6829.9	6851.5	6911.0	6992.0	7083.8	7175.7	7235.1	7289.1	7326.9	7337.7	7337.7
37.5°	5992.4	5922.1	5878.9	5878.9	5932.9	5970.7	6024.7	6057.1	6116.6	6138.2	6154.4
40°	5181.8	5019.7	4868.4	4755.0	4679.4	4673.9	4673.9	4690.1	4744.1	4814.4	4879.3
42.5°	4457.8	4198.4	3966.1	3755.3	3604.1	3517.6	3479.8	3485.2	3528.5	3593.2	3701.3
45°	3879.6	3555.4	3263.6	3009.7	2804.3	2669.2	2604.4	2599.0	2631.4	2707.0	2826.0
47.5°	3431.2	3085.3	2755.7	2463.9	2242.4	2096.5	2020.9	1999.3	2020.9	2091.1	2231.6
50°	3058.3	2701.7	2361.3	2058.7	1820.9	1669.7	1599.4	1572.4	1599.4	1658.9	1799.3
52.5°	2712.5	2345.0	2026.3	1734.5	1480.5	1350.8	1275.2	1258.9	1275.2	1345.4	1459.0
55°	2312.6	1999.3	1685.8	1394.0	1172.6	1042.9	983.4	967.3	983.4	1048.3	1167.2
57.5°	1918.3	1648.0	1372.5	1107.7	918.6	805.0	751.1	729.4	767.2	810.5	951.0
60°	1550.7	1334.7	1102.2	870.0	713.3	610.6	567.3	561.9	572.7	626.8	724.0
62.5°	1215.8	1037.5	853.7	664.6	534.9	491.7	437.6	432.3	443.0	475.4	551.2
65°	875.4	761.9	621.4	486.3	383.7	324.2	302.6	308.1	318.8	340.4	410.6
67.5°	610.6	529.5	432.3	340.4	264.8	237.7	216.2	210.7	216.2	254.0	291.8
70°	410.6	362.0	291.8	259.4	183.8	145.8	151.3	135.1	156.7	156.7	189.1
72.5°	270.1	237.7	194.5	151.3	129.7	102.7	102.7	97.3	108.0	113.4	140.5
75°	140.5	108.0	108.0	75.6	54.1	27.0	48.7	43.2	37.8	43.2	54.1
77.5°	97.3	81.0	75.6	59.5	54.1	43.2	43.2	43.2	43.2	48.7	54.1
80°	59.5	59.5	43.2	37.8	32.4	27.0	32.4	32.4	32.4	32.4	37.8
82.5°	37.8	32.4	32.4	27.0	27.0	21.6	21.6	21.6	21.6	21.6	32.4
85°	32.4	21.6	21.6	16.3	21.6	37.8	16.3	21.6	21.6	21.6	16.3
87.5°	10.8	16.3	16.3	16.3	10.8	5.4	10.8	16.3	16.3	27.0	21.6
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°	10066.5	10066.5	10066.5	10066.5	10066.5	10066.5	10066.5	10066.5	10066.5	10066.5	10066.5
2.5°	10082.7	10088.1	10088.1	10082.7	10082.7	10071.9	10093.4	10077.3	10082.7	10104.3	10088.1
5°	10093.4	10098.8	10098.8	10093.4	10093.4	10093.4	10098.8	10098.8	10093.4	10088.1	10098.8
7.5°	10115.1	10109.7	10109.7	10098.8	10098.8	10088.1	10098.8	10082.7	10093.4	10082.7	10098.8
10°	10088.1	10093.4	10088.1	10082.7	10082.7	10077.3	10077.3	10061.0	10066.5	10050.2	10061.0
12.5°	10071.9	10066.5	10066.5	10055.6	10044.9	10034.1	10028.6	10012.4	10012.4	9974.6	9990.8
15°	10028.6	10034.1	10017.8	9996.2	9985.4	9958.4	9947.6	9925.9	9904.4	9877.4	9882.8
17.5°	9990.8	9974.6	9953.0	9931.3	9888.1	9866.6	9844.9	9812.5	9801.6	9769.2	9758.5
20°	9877.4	9866.6	9839.6	9801.6	9774.7	9726.0	9704.5	9672.1	9645.0	9612.6	9596.3
22.5°	9731.4	9720.6	9688.2	9650.4	9607.2	9585.6	9563.9	9504.6	9477.5	9445.1	9439.6
25°	9547.8	9531.5	9499.1	9455.9	9434.2	9374.9	9353.2	9309.9	9299.2	9266.7	9261.4
27.5°	9266.7	9245.2	9207.3	9153.3	9115.5	9077.6	9056.1	9023.6	9012.9	8980.3	8975.0
30°	8845.3	8818.2	8742.6	8721.1	8656.2	8618.3	8618.3	8575.1	8580.5	8559.0	8559.0
32.5°	8180.7	8137.5	8078.0	8034.8	7991.5	7970.0	7970.0	7953.7	7964.6	7964.6	7975.4
35°	7299.9	7240.6	7208.0	7181.1	7181.1	7202.6	7267.5	7283.8	7316.2	7343.2	7364.8
37.5°	6170.6	6165.3	6203.1	6235.5	6316.5	6408.4	6521.9	6619.2	6710.9	6775.8	6840.6
40°	4949.5	5084.6	5192.6	5344.0	5468.1	5646.5	5851.8	6019.3	6176.0	6289.6	6408.4
42.5°	3863.4	4036.3	4263.3	4484.8	4706.3	4949.5	5219.7	5452.0	5657.3	5814.0	5938.3
45°	3009.7	3247.4	3523.0	3804.0	4090.4	4393.0	4673.9	4911.7	5127.8	5289.9	5414.2
47.5°	2426.1	2685.5	2998.8	3306.9	3631.1	3949.8	4263.3	4468.6	4646.8	4776.5	4890.1
50°	2004.6	2280.3	2609.9	2961.0	3285.2	3604.1	3874.2	4074.1	4220.1	4333.5	4403.7
52.5°	1675.0	1966.8	2318.1	2669.2	2993.4	3285.2	3528.5	3679.7	3798.6	3879.6	3944.4
55°	1383.2	1664.3	1993.9	2323.5	2642.2	2917.8	3117.7	3231.2	3323.0	3371.7	3409.5
57.5°	1129.3	1388.6	1691.3	1993.9	2269.4	2496.4	2653.1	2766.5	2809.8	2847.6	2842.2
60°	886.2	1129.3	1404.9	1664.3	1902.0	2085.6	2199.2	2264.0	2296.4	2312.6	2301.8
62.5°	697.0	918.6	1129.3	1356.2	1529.2	1685.8	1794.0	1794.0	1810.1	1815.5	1831.8
65°	518.7	686.2	870.0	1037.5	1177.9	1280.6	1340.1	1356.2	1377.9	1372.5	1361.6
67.5°	383.7	508.0	642.9	767.2	864.5	929.3	972.6	1010.5	1005.1	994.2	988.8
70°	264.8	345.9	464.7	540.3	610.6	675.5	686.2	691.6	697.0	702.4	691.6
72.5°	183.8	243.1	308.1	372.8	416.1	443.0	470.1	475.4	475.4	475.4	470.1
75°	91.9	124.3	183.8	210.7	248.6	259.4	281.0	281.0	297.2	275.5	270.1
77.5°	81.0	97.3	129.7	151.3	167.5	183.8	189.1	205.3	199.9	189.1	194.5
80°	48.7	59.5	81.0	91.9	113.4	118.9	124.3	129.7	124.3	129.7	129.7
82.5°	37.8	43.2	54.1	54.1	70.2	70.2	75.6	75.6	81.0	81.0	81.0
85°	21.6	37.8	32.4	64.8	43.2	43.2	54.1	64.8	54.1	54.1	64.8
87.5°	21.6	21.6	16.3	21.6	21.6	21.6	27.0	32.4	32.4	37.8	32.4
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: P249378

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	10066.5	10066.5	10066.5	10066.5
2.5°	10082.7	10093.4	10077.3	10071.9
5°	10098.8	10098.8	10088.1	10088.1
7.5°	10098.8	10098.8	10082.7	10071.9
10°	10055.6	10055.6	10039.5	10028.6
12.5°	9974.6	9974.6	9969.2	9953.0
15°	9872.0	9872.0	9850.3	9834.2
17.5°	9731.4	9742.3	9715.3	9715.3
20°	9580.2	9574.8	9553.2	9542.4
22.5°	9423.5	9412.7	9407.2	9374.9
25°	9256.0	9245.2	9228.9	9212.8
27.5°	8969.6	8964.2	8947.9	8926.4
30°	8531.9	8526.5	8504.9	8504.9
32.5°	7964.6	7959.1	7937.6	7943.0
35°	7375.6	7397.2	7386.4	7364.8
37.5°	6883.9	6900.1	6911.0	6900.1
40°	6473.2	6521.9	6527.3	6538.1
42.5°	6035.6	6100.4	6122.1	6132.8
45°	5511.4	5570.9	5619.5	5608.7
47.5°	4976.4	5019.7	5062.9	5030.5
50°	4463.2	4490.2	4506.4	4506.4
52.5°	3976.9	3976.9	3971.5	3976.9
55°	3420.3	3420.3	3398.8	3409.5
57.5°	2836.7	2847.6	2831.3	2804.3
60°	2296.4	2269.4	2258.6	2242.4
62.5°	1788.6	1788.6	1750.7	1799.3
65°	1340.1	1323.8	1307.6	1302.2
67.5°	972.6	967.3	951.0	945.6
70°	686.2	664.6	659.2	648.4
72.5°	459.3	459.3	448.5	448.5
75°	281.0	254.0	248.6	254.0
77.5°	194.5	189.1	189.1	183.8
80°	129.7	124.3	135.1	118.9
82.5°	81.0	86.5	81.0	86.5
85°	54.1	64.8	59.5	59.5
87.5°	32.4	32.4	32.4	32.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)