

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: P248343

Luminaire Tested: **LD8B200D010 ER8B200830 8LBDW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248343  
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 ER8B200830 8LBDW0LI  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21838.0 lumens  
Efficiency: N/A  
Efficacy: 97.8 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

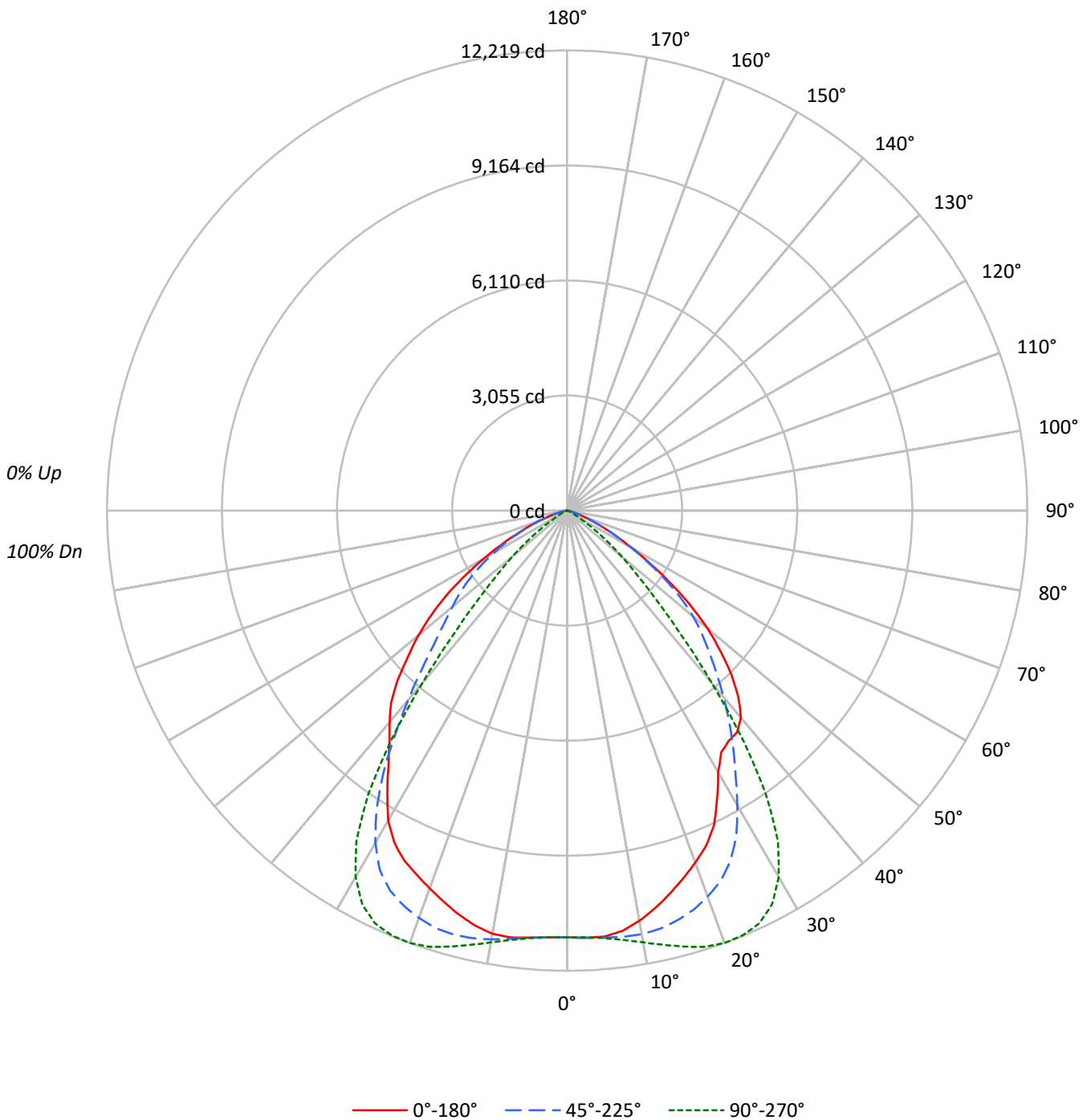
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	349338	349338	349338
5°	351419	352722	352347
10°	346255	364522	357367
15°	336132	382588	354559
20°	326378	400964	350254
25°	313845	411232	348628
30°	285619	399959	338292
35°	281364	346560	311246
40°	289015	240360	295061
45°	269051	145271	277441
50°	233373	89714	247218
55°	179090	46875	209810
60°	122007	18909	158351
65°	75898	9653	109243
70°	41203	5969	66682
75°	21493	2859	39412
80°	9607	3214	21345
85°	6404	2123	19141



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1089.5	5.0
10°-20°	3227.4	14.8
20°-30°	4923.8	22.5
30°-40°	5138.0	23.5
40°-50°	3859.3	17.7
50°-60°	2374.6	10.9
60°-70°	966.4	4.4
70°-80°	227.7	1.0
80°-90°	31.3	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°	9240.7	42.3
0°-40°	14378.7	65.8
0°-60°	20612.6	94.4
0°-90°	21838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21838.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	11329	11329	11329	11329	11329	
5°	11353	11383	11395	11383	11383	###
15°	10529	11269	11984	11654	11106	2966
25°	9224	10258	12086	11130	10246	4194
35°	7474	7685	9206	8509	8268	4719
45°	6170	5340	3331	4973	6362	4707
55°	3331	3163	872	3163	3903	2994
65°	1040	1052	132	1413	1497	1085
75°	180	180	24	319	331	217
85°	18	18	6	42	54	25
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°	11328.8	11328.8	11328.8	11328.8	11328.8	11328.8	11328.8	11328.8	11328.8	11328.8	11328.8
2.5°	11358.9	11340.8	11358.9	11358.9	11365.0	11352.9	11358.9	11365.0	11352.9	11352.9	11352.9
5°	11352.9	11340.8	11352.9	11346.9	11358.9	11358.9	11371.0	11371.0	11382.9	11382.9	11401.0
7.5°	11256.7	11232.7	11256.7	11274.8	11286.7	11310.8	11340.8	11365.0	11389.0	11413.1	11443.1
10°	11058.2	11058.2	11076.3	11112.4	11148.4	11190.5	11244.6	11304.8	11365.0	11419.0	11473.1
12.5°	10811.8	10793.7	10829.7	10877.8	10932.0	10998.2	11082.3	11172.5	11268.8	11376.9	11461.2
15°	10529.1	10511.0	10553.1	10601.2	10667.4	10763.6	10865.9	10986.1	11124.4	11268.8	11407.1
17.5°	10240.4	10234.4	10276.5	10342.7	10396.8	10499.0	10631.4	10775.6	10932.0	11124.4	11304.8
20°	9945.9	9939.8	9981.9	10036.1	10108.2	10204.4	10336.7	10505.0	10691.4	10908.0	11118.4
22.5°	9639.1	9645.1	9681.2	9741.4	9801.5	9903.7	10042.0	10210.4	10414.8	10649.3	10883.9
25°	9224.2	9194.2	9242.3	9302.5	9404.6	9488.7	9621.2	9801.5	10011.9	10258.5	10535.1
27.5°	8622.9	8616.8	8659.1	8713.1	8803.3	8905.5	9049.8	9236.3	9458.7	9729.3	9999.9
30°	8021.5	8033.6	8051.7	8105.8	8165.9	8268.1	8412.5	8568.9	8779.3	9037.8	9326.5
32.5°	7612.7	7612.7	7636.8	7672.8	7714.9	7769.1	7871.3	7985.5	8147.9	8328.3	8538.7
35°	7474.3	7450.4	7474.3	7480.4	7486.4	7498.5	7516.4	7552.6	7606.6	7684.9	7763.0
37.5°	7414.3	7396.2	7396.2	7372.2	7342.1	7306.0	7257.9	7203.8	7143.7	7065.5	7005.4
40°	7179.8	7167.7	7155.7	7131.7	7065.5	6993.4	6915.1	6788.9	6650.6	6458.1	6265.8
42.5°	6728.8	6716.8	6710.7	6662.6	6602.4	6518.3	6428.1	6295.8	6121.5	5874.9	5598.3
45°	6169.6	6145.4	6127.5	6085.4	6043.2	5971.1	5886.9	5766.6	5592.2	5339.7	5009.0
47.5°	5520.1	5508.1	5502.0	5484.1	5442.0	5399.8	5345.8	5249.5	5093.1	4852.6	4509.9
50°	4864.7	4840.7	4852.6	4846.7	4828.6	4798.6	4762.4	4696.3	4576.0	4359.5	4046.9
52.5°	4113.0	4113.0	4107.1	4125.0	4131.0	4125.0	4131.0	4058.9	3956.7	3794.3	3529.7
55°	3331.2	3331.2	3349.3	3373.5	3397.4	3403.5	3397.4	3367.4	3295.2	3162.9	2928.4
57.5°	2597.6	2585.7	2621.8	2657.8	2681.9	2705.9	2687.8	2663.8	2621.8	2513.5	2333.1
60°	1978.3	1978.3	2002.3	2026.5	2050.4	2074.6	2068.5	2062.5	2026.5	1954.2	1810.0
62.5°	1455.1	1461.2	1461.2	1479.3	1503.3	1527.4	1545.3	1527.4	1509.3	1461.2	1365.0
65°	1040.2	1034.2	1040.2	1058.3	1076.4	1100.4	1112.5	1106.4	1088.3	1052.3	980.2
67.5°	697.6	691.5	715.5	721.5	733.6	757.7	751.7	757.7	751.7	721.5	661.5
70°	457.0	444.9	457.0	451.0	469.1	475.1	487.0	493.0	487.0	469.1	451.0
72.5°	282.6	276.6	282.6	288.7	294.7	300.6	312.7	312.7	306.6	294.7	270.6
75°	180.4	162.3	168.3	156.4	168.3	168.3	180.4	186.4	180.4	180.4	168.3
77.5°	108.3	108.3	108.3	108.3	108.3	108.3	108.3	114.3	120.2	108.3	102.3
80°	54.1	54.1	60.2	60.2	60.2	66.2	60.2	60.2	60.2	66.2	48.1
82.5°	42.1	36.0	36.0	36.0	42.1	36.0	36.0	36.0	36.0	36.0	36.0
85°	18.1	24.0	18.1	12.1	18.1	18.1	24.0	18.1	18.1	18.1	24.0
87.5°	6.0	6.0	0.0	0.0	0.0	6.0	0.0	6.0	6.0	12.1	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°	11328.8	11328.8	11328.8	11328.8	11328.8	11328.8	11328.8	11328.8	11328.8	11328.8	11328.8
2.5°	11358.9	11346.9	11346.9	11340.8	11352.9	11340.8	11346.9	11340.8	11340.8	11352.9	11340.8
5°	11401.0	11407.1	11395.0	11389.0	11407.1	11407.1	11407.1	11395.0	11395.0	11401.0	11395.0
7.5°	11461.2	11473.1	11479.2	11485.2	11497.2	11503.3	11503.3	11497.2	11491.2	11509.3	11485.2
10°	11527.3	11545.4	11581.4	11599.5	11629.5	11629.5	11641.6	11641.6	11629.5	11641.6	11635.6
12.5°	11503.3	11611.4	11671.6	11713.7	11755.8	11791.8	11803.9	11809.9	11803.9	11828.0	11803.9
15°	11545.4	11635.6	11731.8	11803.9	11882.0	11924.1	11936.1	11984.3	11996.3	12002.4	11966.3
17.5°	11479.2	11641.6	11743.7	11852.0	11966.3	12044.4	12116.5	12146.7	12152.7	12164.6	12116.5
20°	11328.8	11509.3	11665.6	11822.0	11954.2	12074.5	12134.6	12218.8	12194.8	12242.9	12176.7
22.5°	11124.4	11328.8	11527.3	11731.8	11870.1	12014.4	12140.7	12200.7	12230.9	12230.9	12158.6
25°	10799.7	11040.3	11256.7	11467.1	11677.6	11852.0	11996.3	12086.5	12104.6	12098.6	12014.4
27.5°	10294.6	10553.1	10805.7	11046.3	11304.8	11509.3	11677.6	11785.8	11815.9	11815.9	11725.7
30°	9597.0	9873.6	10120.2	10408.8	10673.5	10901.9	11136.5	11232.7	11286.7	11286.7	11184.6
32.5°	8767.2	9001.7	9230.2	9512.9	9801.5	10060.1	10282.5	10414.8	10481.0	10475.0	10384.8
35°	7865.3	7979.5	8153.9	8364.4	8622.9	8863.4	9079.9	9206.2	9320.4	9314.4	9230.2
37.5°	6963.2	6933.2	6951.3	7029.4	7191.7	7360.2	7528.5	7648.8	7744.9	7787.1	7769.1
40°	6079.4	5923.0	5772.6	5718.6	5730.5	5790.7	5880.9	5971.1	6079.4	6133.5	6157.5
42.5°	5285.6	5021.1	4756.4	4558.0	4443.7	4407.7	4449.7	4479.8	4546.0	4624.1	4702.4
45°	4648.2	4293.5	3944.6	3638.0	3445.6	3331.2	3307.3	3331.2	3367.4	3445.6	3547.8
47.5°	4125.0	3710.1	3319.3	2976.5	2693.9	2543.6	2501.5	2489.5	2525.5	2597.6	2735.9
50°	3662.0	3247.1	2814.2	2417.2	2122.7	1954.2	1894.2	1870.1	1912.1	1966.3	2092.5
52.5°	3156.9	2748.0	2303.1	1918.2	1611.5	1437.2	1371.0	1334.9	1358.9	1431.2	1557.4
55°	2609.7	2230.8	1828.0	1431.2	1136.5	974.2	895.9	871.9	895.9	974.2	1100.4
57.5°	2062.5	1743.8	1407.0	1034.2	769.7	607.4	529.1	505.1	571.3	601.3	733.6
60°	1611.5	1353.0	1064.4	757.7	529.1	402.9	324.7	306.6	336.8	390.8	499.1
62.5°	1208.7	1046.3	817.8	541.2	390.8	258.5	216.4	198.5	216.4	258.5	342.8
65°	877.9	751.7	571.3	396.8	264.5	192.4	144.3	132.3	150.4	180.4	252.6
67.5°	601.3	505.1	396.8	276.6	180.4	120.2	102.3	102.3	108.3	132.3	186.4
70°	390.8	330.8	252.6	180.4	120.2	90.2	78.1	66.2	78.1	96.2	126.2
72.5°	246.6	210.4	162.3	126.2	90.2	66.2	54.1	48.1	60.2	72.1	96.2
75°	150.4	114.3	84.2	66.2	48.1	48.1	48.1	24.0	30.0	48.1	60.2
77.5°	90.2	78.1	66.2	54.1	42.1	24.0	24.0	24.0	30.0	36.0	54.1
80°	48.1	42.1	30.0	30.0	24.0	18.1	24.0	18.1	12.1	30.0	36.0
82.5°	30.0	24.0	24.0	24.0	30.0	12.1	18.1	12.1	18.1	24.0	18.1
85°	18.1	18.1	18.1	12.1	30.0	12.1	12.1	6.0	6.0	12.1	12.1
87.5°	0.0	6.0	6.0	0.0	6.0	0.0	6.0	6.0	6.0	6.0	6.0
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	11328.8	11328.8	11328.8	11328.8	11328.8	11328.8	11328.8	11328.8	11328.8	11328.8	11328.8
2.5°	11346.9	11340.8	11346.9	11340.8	11340.8	11340.8	11346.9	11346.9	11340.8	11340.8	11352.9
5°	11395.0	11395.0	11395.0	11389.0	11382.9	11382.9	11395.0	11395.0	11376.9	11395.0	11395.0
7.5°	11497.2	11479.2	11497.2	11473.1	11461.2	11467.1	11473.1	11461.2	11449.1	11455.2	11455.2
10°	11629.5	11611.4	11611.4	11593.5	11575.4	11563.3	11551.4	11521.2	11491.2	11485.2	11461.2
12.5°	11785.8	11755.8	11737.8	11701.6	11671.6	11629.5	11593.5	11545.4	11485.2	11443.1	11401.0
15°	11942.2	11894.1	11852.0	11791.8	11725.7	11653.5	11575.4	11497.2	11401.0	11316.9	11244.6
17.5°	12068.4	12002.4	11924.1	11828.0	11731.8	11623.5	11509.3	11395.0	11256.7	11148.4	11064.2
20°	12110.5	12014.4	11912.2	11785.8	11659.5	11509.3	11365.0	11214.6	11058.2	10944.0	10847.8
22.5°	12056.5	11942.2	11815.9	11683.7	11515.2	11352.9	11184.6	11010.1	10871.8	10715.5	10625.3
25°	11906.1	11767.8	11629.5	11473.1	11310.8	11130.4	10950.1	10769.7	10601.2	10517.1	10402.9
27.5°	11599.5	11449.1	11298.8	11136.5	10950.1	10769.7	10583.3	10408.8	10264.6	10150.2	10084.2
30°	11058.2	10883.9	10709.5	10535.1	10372.7	10186.3	10011.9	9867.6	9723.3	9633.1	9567.0
32.5°	10228.4	10072.1	9897.8	9729.3	9579.1	9422.7	9278.3	9152.1	9049.8	8989.7	8941.6
35°	9110.0	8953.6	8821.3	8701.1	8574.8	8508.7	8418.5	8346.3	8304.2	8280.2	8274.2
37.5°	7702.8	7612.7	7570.6	7546.6	7522.5	7504.5	7516.4	7546.6	7570.6	7612.7	7660.8
40°	6199.6	6277.7	6301.8	6386.0	6464.1	6566.4	6680.7	6813.0	6921.1	7059.4	7155.7
42.5°	4828.6	4972.9	5141.3	5321.6	5514.1	5700.5	5929.0	6139.4	6331.9	6506.2	6656.6
45°	3710.1	3932.6	4185.2	4443.7	4702.4	4972.9	5249.5	5508.1	5736.6	5923.0	6079.4
47.5°	2892.3	3138.9	3463.7	3782.3	4095.0	4413.7	4720.3	4990.9	5183.3	5363.7	5502.0
50°	2291.0	2573.6	2928.4	3295.2	3638.0	3974.6	4299.4	4552.0	4744.4	4888.8	4990.9
52.5°	1773.8	2110.6	2471.4	2856.3	3223.1	3589.9	3890.5	4125.0	4281.4	4407.7	4485.8
55°	1322.9	1653.6	2038.5	2435.3	2808.2	3162.9	3445.6	3650.1	3788.4	3860.5	3902.6
57.5°	956.1	1256.8	1641.6	2038.5	2375.2	2712.0	2940.4	3126.9	3205.0	3247.1	3265.2
60°	697.6	974.2	1316.8	1659.7	1978.3	2248.9	2447.4	2573.6	2633.8	2657.8	2651.8
62.5°	511.1	751.7	1046.3	1334.9	1593.5	1815.9	1972.3	2056.5	2086.6	2098.6	2080.6
65°	390.8	577.2	829.8	1052.3	1250.8	1413.1	1527.4	1581.5	1599.5	1593.5	1581.5
67.5°	288.7	433.0	619.4	787.7	932.1	1058.3	1118.5	1166.6	1178.5	1160.6	1142.5
70°	204.5	318.7	451.0	565.3	673.4	745.7	811.7	817.8	817.8	811.7	799.8
72.5°	144.3	222.5	306.6	384.9	451.0	505.1	529.1	547.2	541.2	535.1	523.2
75°	96.2	138.3	222.5	240.6	300.6	318.7	342.8	342.8	348.7	330.8	330.8
77.5°	60.2	96.2	132.3	156.4	180.4	204.5	216.4	216.4	222.5	216.4	216.4
80°	36.0	60.2	72.1	108.3	108.3	126.2	132.3	138.3	126.2	144.3	126.2
82.5°	24.0	36.0	54.1	54.1	66.2	78.1	78.1	84.2	84.2	78.1	78.1
85°	18.1	24.0	30.0	36.0	36.0	42.1	36.0	36.0	42.1	48.1	42.1
87.5°	6.0	12.1	6.0	12.1	12.1	24.0	18.1	18.1	18.1	24.0	24.0
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: P248343

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBDW0LI

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	11328.8	11328.8	11328.8	11328.8
2.5°	11340.8	11346.9	11340.8	11340.8
5°	11395.0	11389.0	11395.0	11382.9
7.5°	11437.1	11437.1	11431.0	11431.0
10°	11437.1	11413.1	11413.1	11413.1
12.5°	11346.9	11316.9	11298.8	11286.7
15°	11190.5	11136.5	11112.4	11106.3
17.5°	10986.1	10938.0	10908.0	10889.9
20°	10751.6	10703.5	10667.4	10673.5
22.5°	10547.1	10493.1	10468.9	10456.9
25°	10342.7	10276.5	10258.5	10246.5
27.5°	10011.9	9975.9	9957.8	9939.8
30°	9506.8	9488.7	9458.7	9500.8
32.5°	8923.6	8893.4	8869.5	8887.6
35°	8280.2	8262.1	8280.2	8268.1
37.5°	7690.9	7708.9	7733.0	7744.9
40°	7227.9	7294.0	7318.1	7330.0
42.5°	6764.9	6843.0	6891.1	6921.1
45°	6193.6	6271.7	6325.8	6362.0
47.5°	5604.3	5670.5	5724.5	5718.6
50°	5069.2	5105.2	5129.2	5153.3
52.5°	4527.9	4527.9	4533.9	4533.9
55°	3914.6	3902.6	3896.5	3902.6
57.5°	3241.0	3229.1	3223.1	3205.0
60°	2627.8	2591.7	2567.6	2567.6
62.5°	2056.5	2014.4	1996.4	1990.4
65°	1545.3	1539.3	1503.3	1497.2
67.5°	1118.5	1094.4	1070.4	1076.4
70°	787.7	751.7	751.7	739.6
72.5°	511.1	493.0	487.0	487.0
75°	318.7	318.7	306.6	330.8
77.5°	210.4	210.4	204.5	210.4
80°	126.2	126.2	126.2	120.2
82.5°	78.1	84.2	78.1	78.1
85°	42.1	48.1	36.0	54.1
87.5°	24.0	30.0	24.0	30.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)