

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: P249288

Luminaire Tested: **LD8B200D010 ER8B200927 8LBDW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249288  
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 ER8B200927 8LBDW0WMH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17076.4 lumens  
Efficiency: N/A  
Efficacy: 76.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

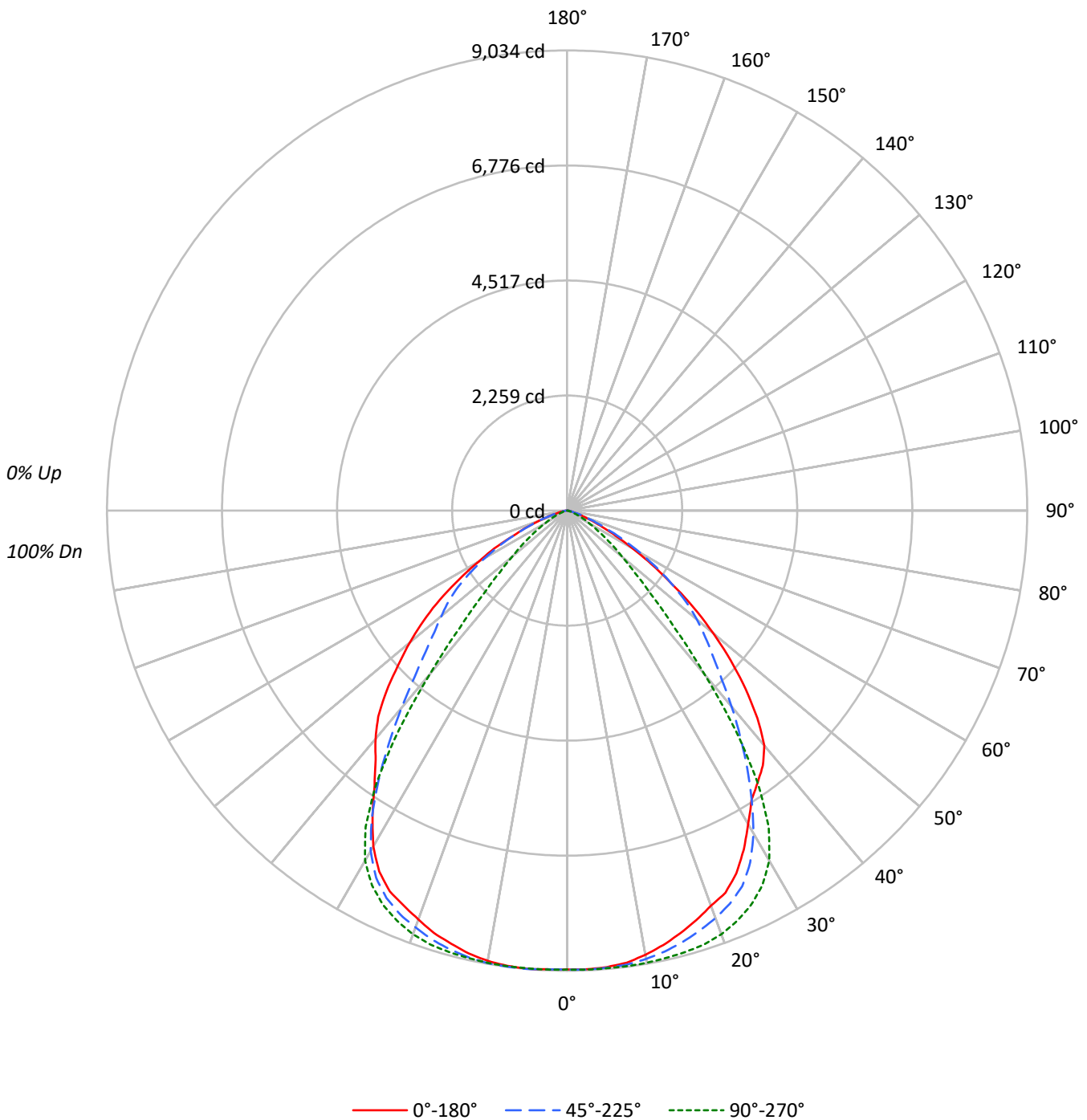
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P249288

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBDW0WMH

### Luminous Intensity Polar Plot





TEST NUMBER: P249288

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBDW0WMH

**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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



TEST NUMBER: P249288

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBDW0WMH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	859.9	5.0
10°-20°	2497.2	14.6
20°-30°	3790.2	22.2
30°-40°	3980.9	23.3
40°-50°	2984.6	17.5
50°-60°	1915.0	11.2
60°-70°	819.2	4.8
70°-80°	193.5	1.1
80°-90°	36.0	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°	7147.2	41.9
0°-40°	11128.1	65.2
0°-60°	16027.6	93.9
0°-90°	17076.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17076.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9010	9010	9010	9010	9010	
5°	8995	9010	9020	9034	9029	854
15°	8589	8768	8971	8913	8802	2423
25°	7859	8134	8546	8391	8246	3590
35°	6519	6156	6524	6447	6592	4092
45°	4952	4048	2326	3932	5020	3793
55°	2505	2505	866	2612	3052	2272
65°	754	890	276	1146	1166	805
75°	116	135	39	232	227	169
85°	39	24	19	39	53	41
90°	0	0	0	0	0	



TEST NUMBER: P249288

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBDW0WMH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	9009.8	9009.8	9009.8	9009.8	9009.8	9009.8	9009.8	9009.8	9009.8	9009.8	9009.8
2.5°	9014.7	9024.4	9019.6	9019.6	9014.7	9019.6	9019.6	9029.2	9029.2	9019.6	9014.7
5°	8995.3	9004.9	9004.9	8995.3	8995.3	9019.6	9004.9	9014.7	9014.7	9009.8	9009.8
7.5°	8951.8	8951.8	8971.1	8956.7	8956.7	8971.1	8966.2	8976.0	8985.7	8990.6	8990.6
10°	8855.1	8864.8	8869.6	8869.6	8874.4	8888.8	8898.6	8918.0	8927.6	8937.3	8942.2
12.5°	8734.3	8748.7	8753.5	8748.7	8763.2	8782.5	8806.7	8830.9	8845.4	8864.8	8879.3
15°	8589.0	8589.0	8598.7	8613.3	8623.0	8652.0	8676.1	8705.1	8743.8	8768.0	8792.2
17.5°	8429.5	8439.2	8453.7	8453.7	8473.1	8521.3	8535.9	8579.5	8623.0	8647.1	8695.6
20°	8255.5	8265.0	8279.6	8289.3	8313.4	8352.1	8381.1	8419.8	8468.2	8511.8	8560.0
22.5°	8119.9	8100.7	8110.2	8119.9	8144.2	8178.1	8211.9	8260.2	8308.6	8352.1	8400.5
25°	7858.8	7863.6	7878.2	7887.8	7916.8	7945.9	7984.6	8042.6	8086.2	8134.5	8187.6
27.5°	7505.8	7510.6	7534.8	7534.8	7559.0	7607.4	7631.4	7679.9	7738.0	7786.2	7849.2
30°	7104.4	7114.0	7114.0	7133.4	7147.8	7172.1	7196.3	7244.7	7273.7	7317.2	7404.3
32.5°	6736.8	6746.5	6741.6	6736.8	6722.3	6717.5	6712.6	6722.3	6732.0	6746.5	6780.3
35°	6519.3	6495.0	6475.7	6441.9	6403.2	6354.8	6311.2	6253.2	6200.0	6156.4	6108.2
37.5°	6311.2	6306.4	6277.4	6229.0	6151.6	6064.7	5963.1	5837.3	5711.5	5576.2	5445.6
40°	6021.1	6006.5	5982.4	5914.7	5827.6	5721.2	5585.8	5431.0	5227.9	5020.0	4807.2
42.5°	5527.7	5532.6	5503.6	5450.4	5368.3	5266.6	5126.4	4957.1	4739.5	4492.8	4217.2
45°	4952.2	4952.2	4942.6	4899.0	4841.0	4758.8	4652.4	4512.2	4299.4	4047.9	3752.9
47.5°	4352.5	4357.5	4342.8	4333.3	4309.0	4255.9	4178.5	4072.2	3922.2	3680.3	3385.4
50°	3743.2	3743.2	3767.4	3762.6	3762.6	3743.2	3709.5	3646.5	3516.0	3322.5	3046.8
52.5°	3133.8	3143.6	3158.1	3177.3	3201.5	3240.2	3201.5	3172.5	3090.3	2940.4	2703.5
55°	2505.2	2514.8	2539.0	2572.9	2601.9	2640.6	2650.2	2650.2	2606.6	2505.2	2326.2
57.5°	1968.4	1953.8	1973.2	2002.2	2040.9	2079.6	2108.6	2142.5	2137.6	2069.9	1924.9
60°	1479.9	1484.8	1499.2	1528.3	1557.2	1591.1	1629.8	1658.8	1673.3	1639.5	1547.6
62.5°	1078.5	1078.5	1097.8	1126.8	1141.3	1189.7	1213.9	1228.4	1242.9	1238.1	1180.0
65°	754.5	764.1	773.8	788.3	802.8	831.8	846.3	875.4	885.0	889.9	846.3
67.5°	532.0	517.5	527.2	536.7	551.4	570.7	599.7	599.7	614.1	614.1	585.1
70°	338.5	338.5	343.3	357.9	367.5	372.4	382.0	391.7	406.2	401.4	401.4
72.5°	227.4	222.4	227.4	232.2	237.0	251.4	251.4	256.3	266.1	270.9	251.4
75°	116.1	120.9	130.5	125.8	140.2	130.5	135.3	150.0	145.1	135.3	135.3
77.5°	96.6	96.6	96.6	91.9	101.6	101.6	96.6	106.4	101.6	101.6	96.6
80°	67.7	72.6	67.7	62.9	67.7	62.9	62.9	62.9	62.9	62.9	57.9
82.5°	53.2	43.5	48.4	43.5	48.4	48.4	43.5	38.7	38.7	43.5	38.7
85°	38.7	29.0	33.9	33.9	29.0	29.0	29.0	29.0	29.0	24.2	24.2
87.5°	24.2	14.5	14.5	14.5	19.2	19.2	19.2	14.5	19.2	19.2	9.7
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: P249288

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9009.8	9009.8	9009.8	9009.8	9009.8	9009.8	9009.8	9009.8	9009.8	9009.8	9009.8
2.5°	9024.4	9019.6	9029.2	9024.4	9024.4	9019.6	9024.4	9019.6	9029.2	9009.8	9014.7
5°	9024.4	9014.7	9019.6	9024.4	9029.2	9019.6	9019.6	9019.6	9029.2	9019.6	9024.4
7.5°	9004.9	9000.1	9014.7	9024.4	9019.6	9014.7	9024.4	9019.6	9029.2	9024.4	9034.0
10°	8966.2	8971.1	8980.9	8995.3	9000.1	9004.9	9014.7	9014.7	9029.2	9009.8	9019.6
12.5°	8908.3	8927.6	8951.8	8961.4	8980.9	8980.9	8990.6	8995.3	9004.9	9000.1	9014.7
15°	8835.8	8859.9	8888.8	8913.2	8937.3	8951.8	8966.2	8971.1	8985.7	8971.1	8976.0
17.5°	8748.7	8777.7	8821.2	8850.2	8888.8	8903.5	8922.7	8932.4	8947.0	8937.3	8942.2
20°	8627.7	8661.7	8710.0	8753.5	8777.7	8811.4	8835.8	8850.2	8859.9	8850.2	8855.1
22.5°	8458.5	8506.9	8569.8	8603.6	8652.0	8680.9	8685.8	8719.6	8743.8	8719.6	8729.3
25°	8260.2	8308.6	8356.9	8429.5	8473.1	8506.9	8540.8	8545.6	8569.8	8564.8	8560.0
27.5°	7931.4	7994.2	8076.4	8134.5	8192.5	8245.8	8284.4	8294.1	8318.2	8308.6	8313.4
30°	7481.6	7549.3	7626.7	7718.6	7800.9	7854.0	7902.3	7936.2	7960.3	7945.9	7941.0
32.5°	6843.3	6911.0	6993.2	7085.0	7181.8	7259.1	7317.2	7360.8	7389.7	7380.0	7355.9
35°	6113.0	6132.3	6185.6	6258.0	6340.2	6422.5	6475.7	6524.0	6557.8	6567.5	6567.5
37.5°	5363.3	5300.6	5261.8	5261.8	5310.1	5344.0	5392.3	5421.4	5474.6	5493.9	5508.4
40°	4637.8	4492.8	4357.5	4255.9	4188.2	4183.3	4183.3	4197.8	4246.2	4309.0	4367.1
42.5°	3989.8	3757.7	3549.8	3361.2	3225.8	3148.4	3114.6	3119.4	3158.1	3216.0	3312.8
45°	3472.4	3182.3	2921.1	2693.7	2510.0	2389.0	2331.1	2326.2	2355.2	2422.9	2529.3
47.5°	3071.0	2761.4	2466.5	2205.2	2007.1	1876.4	1808.8	1789.4	1808.8	1871.6	1997.3
50°	2737.4	2418.2	2113.4	1842.5	1629.8	1494.4	1431.4	1407.4	1431.4	1484.8	1610.4
52.5°	2427.8	2098.9	1813.6	1552.4	1325.1	1209.0	1141.3	1126.8	1141.3	1204.2	1305.8
55°	2069.9	1789.4	1508.9	1247.7	1049.5	933.4	880.2	865.7	880.2	938.2	1044.7
57.5°	1716.9	1475.0	1228.4	991.4	822.2	720.6	672.3	652.8	686.7	725.4	851.2
60°	1387.9	1194.5	986.5	778.6	638.4	546.4	507.8	502.9	512.7	561.0	648.0
62.5°	1088.2	928.6	764.1	594.9	478.8	440.1	391.7	387.0	396.6	425.6	493.3
65°	783.4	682.0	556.2	435.3	343.3	290.1	270.9	275.7	285.3	304.8	367.5
67.5°	546.4	474.0	387.0	304.8	237.0	212.7	193.5	188.7	193.5	227.4	261.1
70°	367.5	324.0	261.1	232.2	164.5	130.5	135.3	120.9	140.2	140.2	169.2
72.5°	241.8	212.7	174.0	135.3	116.1	91.9	91.9	87.1	96.6	101.6	125.8
75°	125.8	96.6	96.6	67.7	48.4	24.2	43.5	38.7	33.9	38.7	48.4
77.5°	87.1	72.6	67.7	53.2	48.4	38.7	38.7	38.7	38.7	43.5	48.4
80°	53.2	53.2	38.7	33.9	29.0	24.2	29.0	29.0	29.0	29.0	33.9
82.5°	33.9	29.0	29.0	24.2	24.2	19.2	19.2	19.2	19.2	19.2	29.0
85°	29.0	19.2	19.2	14.5	19.2	33.9	14.5	19.2	19.2	19.2	14.5
87.5°	9.7	14.5	14.5	14.5	9.7	4.8	9.7	14.5	14.5	24.2	19.2
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: P249288

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9009.8	9009.8	9009.8	9009.8	9009.8	9009.8	9009.8	9009.8	9009.8	9009.8	9009.8
2.5°	9024.4	9029.2	9029.2	9024.4	9024.4	9014.7	9034.0	9019.6	9024.4	9043.6	9029.2
5°	9034.0	9038.8	9038.8	9034.0	9034.0	9034.0	9038.8	9038.8	9034.0	9029.2	9038.8
7.5°	9053.3	9048.5	9048.5	9038.8	9038.8	9029.2	9038.8	9024.4	9034.0	9024.4	9038.8
10°	9029.2	9034.0	9029.2	9024.4	9024.4	9019.6	9019.6	9004.9	9009.8	8995.3	9004.9
12.5°	9014.7	9009.8	9009.8	9000.1	8990.6	8980.9	8976.0	8961.4	8961.4	8927.6	8942.2
15°	8976.0	8980.9	8966.2	8947.0	8937.3	8913.2	8903.5	8884.0	8864.8	8840.6	8845.4
17.5°	8942.2	8927.6	8908.3	8888.8	8850.2	8830.9	8811.4	8782.5	8772.9	8743.8	8734.3
20°	8840.6	8830.9	8806.7	8772.9	8748.7	8705.1	8685.8	8656.9	8632.6	8603.6	8589.0
22.5°	8710.0	8700.3	8671.3	8637.4	8598.7	8579.5	8560.0	8506.9	8482.6	8453.7	8448.9
25°	8545.6	8531.1	8502.1	8463.4	8443.9	8390.8	8371.5	8332.8	8323.1	8294.1	8289.3
27.5°	8294.1	8274.7	8240.8	8192.5	8158.6	8124.9	8105.5	8076.4	8066.8	8037.7	8033.0
30°	7916.8	7892.7	7824.9	7805.7	7747.5	7713.7	7713.7	7675.0	7679.9	7660.6	7660.6
32.5°	7322.1	7283.4	7230.0	7191.4	7152.8	7133.4	7133.4	7118.9	7128.6	7128.6	7138.2
35°	6533.7	6480.6	6451.4	6427.3	6427.3	6446.6	6504.8	6519.3	6548.3	6572.4	6591.8
37.5°	5522.8	5518.1	5552.0	5581.0	5653.6	5735.8	5837.3	5924.4	6006.5	6064.7	6122.6
40°	4429.9	4550.8	4647.6	4783.0	4894.2	5053.8	5237.6	5387.5	5527.7	5629.4	5735.8
42.5°	3457.8	3612.6	3815.8	4014.0	4212.3	4429.9	4671.8	4879.7	5063.5	5203.7	5315.0
45°	2693.7	2906.5	3153.3	3404.7	3661.0	3931.9	4183.3	4396.2	4589.6	4734.7	4845.9
47.5°	2171.5	2403.6	2684.0	2959.8	3249.9	3535.2	3815.8	3999.6	4159.1	4275.2	4376.8
50°	1794.2	2040.9	2336.0	2650.2	2940.4	3225.8	3467.6	3646.5	3777.1	3878.7	3941.4
52.5°	1499.2	1760.3	2074.7	2389.0	2679.2	2940.4	3158.1	3293.4	3399.9	3472.4	3530.4
55°	1238.1	1489.6	1784.6	2079.6	2364.9	2611.5	2790.5	2892.0	2974.2	3017.7	3051.6
57.5°	1010.8	1242.9	1513.7	1784.6	2031.2	2234.4	2374.6	2476.1	2514.8	2548.7	2543.8
60°	793.2	1010.8	1257.4	1489.6	1702.4	1866.7	1968.4	2026.4	2055.4	2069.9	2060.2
62.5°	623.8	822.2	1010.8	1213.9	1368.7	1508.9	1605.7	1605.7	1620.1	1625.0	1639.5
65°	464.2	614.1	778.6	928.6	1054.2	1146.1	1199.5	1213.9	1233.2	1228.4	1218.7
67.5°	343.3	454.6	575.4	686.7	773.8	831.8	870.4	904.4	899.6	889.9	885.0
70°	237.0	309.6	415.9	483.6	546.4	604.6	614.1	619.0	623.8	628.8	619.0
72.5°	164.5	217.6	275.7	333.7	372.4	396.6	420.8	425.6	425.6	425.6	420.8
75°	82.2	111.3	164.5	188.7	222.4	232.2	251.4	251.4	266.1	246.6	241.8
77.5°	72.6	87.1	116.1	135.3	150.0	164.5	169.2	183.8	178.9	169.2	174.0
80°	43.5	53.2	72.6	82.2	101.6	106.4	111.3	116.1	111.3	116.1	116.1
82.5°	33.9	38.7	48.4	48.4	62.9	62.9	67.7	67.7	72.6	72.6	72.6
85°	19.2	33.9	29.0	57.9	38.7	38.7	48.4	57.9	48.4	48.4	57.9
87.5°	19.2	19.2	14.5	19.2	19.2	19.2	24.2	29.0	29.0	33.9	29.0
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: P249288

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	9009.8	9009.8	9009.8	9009.8
2.5°	9024.4	9034.0	9019.6	9014.7
5°	9038.8	9038.8	9029.2	9029.2
7.5°	9038.8	9038.8	9024.4	9014.7
10°	9000.1	9000.1	8985.7	8976.0
12.5°	8927.6	8927.6	8922.7	8908.3
15°	8835.8	8835.8	8816.4	8801.9
17.5°	8710.0	8719.6	8695.6	8695.6
20°	8574.6	8569.8	8550.4	8540.8
22.5°	8434.4	8424.7	8419.8	8390.8
25°	8284.4	8274.7	8260.2	8245.8
27.5°	8028.1	8023.3	8008.8	7989.4
30°	7636.3	7631.4	7612.2	7612.2
32.5°	7128.6	7123.7	7104.4	7109.2
35°	6601.4	6620.7	6611.1	6591.8
37.5°	6161.3	6175.8	6185.6	6175.8
40°	5793.8	5837.3	5842.1	5851.8
42.5°	5402.0	5460.1	5479.4	5489.0
45°	4932.9	4986.1	5029.7	5020.0
47.5°	4454.1	4492.8	4531.5	4502.5
50°	3994.8	4018.8	4033.5	4033.5
52.5°	3559.5	3559.5	3554.7	3559.5
55°	3061.4	3061.4	3042.0	3051.6
57.5°	2539.0	2548.7	2534.2	2510.0
60°	2055.4	2031.2	2021.5	2007.1
62.5°	1600.9	1600.9	1567.0	1610.4
65°	1199.5	1184.9	1170.3	1165.5
67.5°	870.4	865.7	851.2	846.3
70°	614.1	594.9	590.1	580.3
72.5°	411.1	411.1	401.4	401.4
75°	251.4	227.4	222.4	227.4
77.5°	174.0	169.2	169.2	164.5
80°	116.1	111.3	120.9	106.4
82.5°	72.6	77.4	72.6	77.4
85°	48.4	57.9	53.2	53.2
87.5°	29.0	29.0	29.0	29.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)