

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: P248505

Luminaire Tested: **LD8B200D010 ER8B200935 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248505  
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 ER8B200935 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18833.0 lumens  
Efficiency: N/A  
Efficacy: 84.3 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

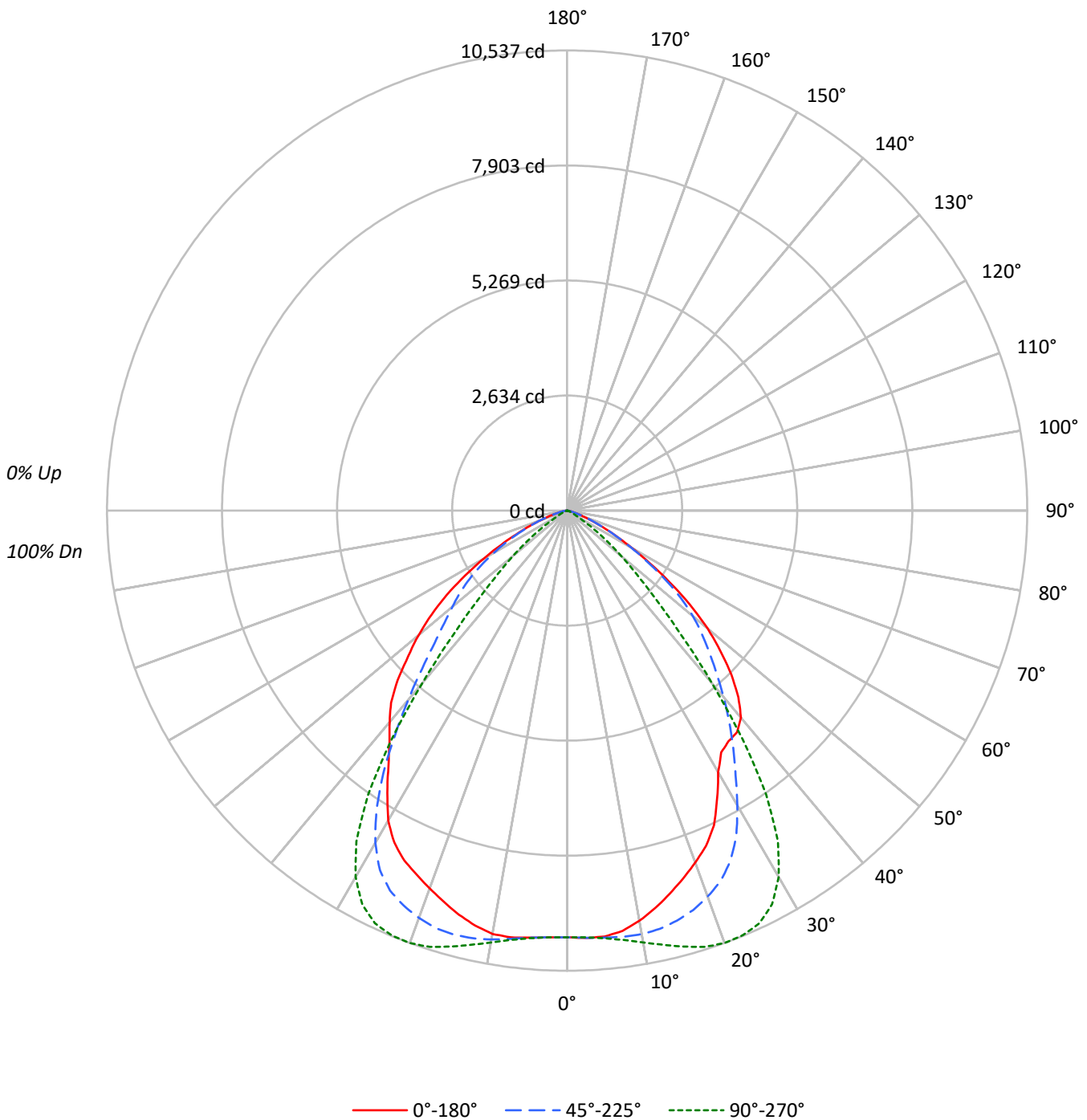
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	301268	301268	301268
5°	303062	304186	303864
10°	298610	314363	308192
15°	289880	329942	305769
20°	281467	345788	302055
25°	270658	354647	300654
30°	246317	344922	291744
35°	242647	298872	268418
40°	249244	207284	254461
45°	232027	125280	239266
50°	201260	77366	213201
55°	154446	40423	180934
60°	105220	16306	136562
65°	65457	8325	94212
70°	35532	5148	57513
75°	18539	2466	33979
80°	8293	2770	18415
85°	5519	1840	16523



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	939.6	5.0
10°-20°	2783.3	14.8
20°-30°	4246.2	22.5
30°-40°	4431.0	23.5
40°-50°	3328.3	17.7
50°-60°	2047.8	10.9
60°-70°	833.4	4.4
70°-80°	196.4	1.0
80°-90°	27.0	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°	7969.1	42.3
0°-40°	12400.1	65.8
0°-60°	17776.2	94.4
0°-90°	18833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18833.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9770	9770	9770	9770	9770	
5°	9791	9817	9827	9817	9817	926
15°	9080	9718	10335	10050	9578	2558
25°	7955	8847	10423	9599	8836	3616
35°	6446	6627	7939	7338	7130	4070
45°	5321	4605	2873	4289	5487	4059
55°	2873	2728	752	2728	3366	2582
65°	897	908	114	1219	1291	936
75°	156	156	21	275	285	187
85°	16	16	5	36	47	22
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°	9769.9	9769.9	9769.9	9769.9	9769.9	9769.9	9769.9	9769.9	9769.9	9769.9	9769.9
2.5°	9795.9	9780.3	9795.9	9795.9	9801.1	9790.7	9795.9	9801.1	9790.7	9790.7	9790.7
5°	9790.7	9780.3	9790.7	9785.5	9795.9	9795.9	9806.3	9806.3	9816.6	9816.6	9832.2
7.5°	9707.7	9687.0	9707.7	9723.3	9733.6	9754.4	9780.3	9801.1	9821.8	9842.6	9868.5
10°	9536.6	9536.6	9552.2	9583.2	9614.3	9650.6	9697.3	9749.2	9801.1	9847.7	9894.4
12.5°	9324.0	9308.4	9339.5	9381.0	9427.7	9484.8	9557.4	9635.1	9718.1	9811.4	9884.1
15°	9080.3	9064.7	9100.9	9142.4	9199.5	9282.5	9370.7	9474.4	9593.6	9718.1	9837.4
17.5°	8831.3	8826.1	8862.4	8919.5	8966.2	9054.3	9168.4	9292.8	9427.7	9593.6	9749.2
20°	8577.3	8572.1	8608.4	8655.1	8717.2	8800.2	8914.3	9059.5	9220.2	9407.0	9588.4
22.5°	8312.7	8317.9	8349.0	8400.9	8452.8	8540.9	8660.1	8805.4	8981.7	9183.9	9386.2
25°	7954.9	7929.0	7970.5	8022.4	8110.5	8183.1	8297.2	8452.8	8634.3	8846.9	9085.5
27.5°	7436.3	7431.1	7467.5	7514.1	7591.9	7680.1	7804.5	7965.3	8157.2	8390.5	8623.9
30°	6917.7	6928.1	6943.7	6990.4	7042.2	7130.4	7254.9	7389.8	7571.2	7794.1	8043.1
32.5°	6565.1	6565.1	6585.9	6617.0	6653.3	6700.0	6788.2	6886.6	7026.7	7182.3	7363.7
35°	6445.8	6425.2	6445.8	6451.0	6456.2	6466.7	6482.1	6513.3	6559.9	6627.4	6694.8
37.5°	6394.1	6378.5	6378.5	6357.8	6331.8	6300.7	6259.2	6212.5	6160.7	6093.2	6041.5
40°	6191.8	6181.4	6171.0	6150.3	6093.2	6031.1	5963.6	5854.7	5735.4	5569.4	5403.6
42.5°	5802.9	5792.5	5787.3	5745.8	5693.9	5621.3	5543.6	5429.5	5279.1	5066.5	4827.9
45°	5320.6	5299.8	5284.3	5248.0	5211.6	5149.4	5076.9	4973.1	4822.7	4605.0	4319.7
47.5°	4760.5	4750.1	4744.9	4729.4	4693.2	4656.7	4610.2	4527.2	4392.3	4184.9	3889.3
50°	4195.3	4174.6	4184.9	4179.8	4164.2	4138.3	4107.1	4050.1	3946.3	3759.7	3490.0
52.5°	3547.0	3547.0	3541.9	3557.4	3562.6	3557.4	3562.6	3500.4	3412.2	3272.2	3044.0
55°	2872.8	2872.8	2888.4	2909.3	2929.9	2935.1	2929.9	2904.1	2841.8	2727.7	2525.4
57.5°	2240.2	2229.9	2261.0	2292.1	2312.9	2333.6	2318.0	2297.3	2261.0	2167.6	2012.0
60°	1706.1	1706.1	1726.8	1747.6	1768.3	1789.1	1783.9	1778.7	1747.6	1685.3	1561.0
62.5°	1254.9	1260.1	1260.1	1275.7	1296.4	1317.2	1332.7	1317.2	1301.6	1260.1	1177.1
65°	897.1	891.9	897.1	912.7	928.3	949.0	959.4	954.2	938.6	907.5	845.3
67.5°	601.6	596.4	617.1	622.3	632.7	653.5	648.3	653.5	648.3	622.3	570.5
70°	394.1	383.7	394.1	388.9	404.5	409.7	420.0	425.2	420.0	404.5	388.9
72.5°	243.7	238.5	243.7	249.0	254.2	259.2	269.6	269.6	264.4	254.2	233.3
75°	155.6	140.0	145.2	134.9	145.2	145.2	155.6	160.8	155.6	155.6	145.2
77.5°	93.4	93.4	93.4	93.4	93.4	93.4	93.4	98.6	103.7	93.4	88.2
80°	46.7	46.7	51.9	51.9	51.9	57.1	51.9	51.9	51.9	57.1	41.5
82.5°	36.3	31.1	31.1	31.1	36.3	31.1	31.1	31.1	31.1	31.1	31.1
85°	15.6	20.7	15.6	10.4	15.6	15.6	20.7	15.6	15.6	15.6	20.7
87.5°	5.2	5.2	0.0	0.0	0.0	5.2	0.0	5.2	5.2	10.4	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°	9769.9	9769.9	9769.9	9769.9	9769.9	9769.9	9769.9	9769.9	9769.9	9769.9	9769.9
2.5°	9795.9	9785.5	9785.5	9780.3	9790.7	9780.3	9785.5	9780.3	9780.3	9790.7	9780.3
5°	9832.2	9837.4	9827.0	9821.8	9837.4	9837.4	9837.4	9827.0	9827.0	9832.2	9827.0
7.5°	9884.1	9894.4	9899.6	9904.8	9915.2	9920.4	9920.4	9915.2	9910.0	9925.6	9904.8
10°	9941.1	9956.7	9987.8	10003.4	10029.3	10029.3	10039.7	10039.7	10029.3	10039.7	10034.5
12.5°	9920.4	10013.6	10065.5	10101.8	10138.1	10169.2	10179.6	10184.8	10179.6	10200.4	10179.6
15°	9956.7	10034.5	10117.4	10179.6	10247.0	10283.3	10293.7	10335.2	10345.6	10350.8	10319.7
17.5°	9899.6	10039.7	10127.7	10221.1	10319.7	10387.1	10449.2	10475.3	10480.5	10490.7	10449.2
20°	9769.9	9925.6	10060.3	10195.2	10309.3	10413.0	10464.9	10537.4	10516.7	10558.2	10501.1
22.5°	9593.6	9769.9	9941.1	10117.4	10236.7	10361.2	10470.1	10521.8	10547.8	10547.8	10485.5
25°	9313.6	9521.1	9707.7	9889.2	10070.7	10221.1	10345.6	10423.4	10439.0	10433.8	10361.2
27.5°	8878.0	9100.9	9318.8	9526.3	9749.2	9925.6	10070.7	10164.0	10190.0	10190.0	10112.2
30°	8276.4	8515.0	8727.6	8976.5	9204.7	9401.8	9604.1	9687.0	9733.6	9733.6	9645.5
32.5°	7560.8	7763.1	7960.1	8203.9	8452.8	8675.8	8867.6	8981.7	9038.8	9033.6	8955.8
35°	6783.0	6881.4	7031.9	7213.4	7436.3	7643.8	7830.4	7939.4	8037.9	8032.7	7960.1
37.5°	6005.0	5979.2	5994.8	6062.1	6202.1	6347.4	6492.5	6596.3	6679.2	6715.6	6700.0
40°	5242.8	5108.0	4978.3	4931.7	4942.0	4993.9	5071.7	5149.4	5242.8	5289.5	5310.2
42.5°	4558.3	4330.1	4101.9	3930.8	3832.2	3801.1	3837.4	3863.3	3920.4	3987.8	4055.3
45°	4008.6	3702.7	3401.8	3137.4	2971.4	2872.8	2852.2	2872.8	2904.1	2971.4	3059.6
47.5°	3557.4	3199.6	2862.6	2566.9	2323.2	2193.6	2157.3	2146.9	2178.0	2240.2	2359.5
50°	3158.1	2800.3	2427.0	2084.6	1830.6	1685.3	1633.5	1612.7	1649.0	1695.7	1804.6
52.5°	2722.5	2369.9	1986.2	1654.2	1389.8	1239.4	1182.3	1151.2	1171.9	1234.2	1343.1
55°	2250.6	1923.9	1576.4	1234.2	980.1	840.1	772.6	751.9	772.6	840.1	949.0
57.5°	1778.7	1503.9	1213.4	891.9	663.7	523.8	456.3	435.6	492.7	518.6	632.7
60°	1389.8	1166.8	917.9	653.5	456.3	347.4	280.0	264.4	290.4	337.0	430.4
62.5°	1042.4	902.3	705.2	466.7	337.0	222.9	186.7	171.2	186.7	222.9	295.6
65°	757.1	648.3	492.7	342.2	228.1	166.0	124.5	114.1	129.7	155.6	217.9
67.5°	518.6	435.6	342.2	238.5	155.6	103.7	88.2	88.2	93.4	114.1	160.8
70°	337.0	285.2	217.9	155.6	103.7	77.8	67.4	57.1	67.4	83.0	108.9
72.5°	212.7	181.5	140.0	108.9	77.8	57.1	46.7	41.5	51.9	62.2	83.0
75°	129.7	98.6	72.6	57.1	41.5	41.5	41.5	20.7	25.9	41.5	51.9
77.5°	77.8	67.4	57.1	46.7	36.3	20.7	20.7	20.7	25.9	31.1	46.7
80°	41.5	36.3	25.9	25.9	20.7	15.6	20.7	15.6	10.4	25.9	31.1
82.5°	25.9	20.7	20.7	20.7	25.9	10.4	15.6	10.4	15.6	20.7	15.6
85°	15.6	15.6	15.6	10.4	25.9	10.4	10.4	5.2	5.2	10.4	10.4
87.5°	0.0	5.2	5.2	0.0	5.2	0.0	5.2	5.2	5.2	5.2	5.2
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°	9769.9	9769.9	9769.9	9769.9	9769.9	9769.9	9769.9	9769.9	9769.9	9769.9	9769.9
2.5°	9785.5	9780.3	9785.5	9780.3	9780.3	9780.3	9785.5	9785.5	9780.3	9780.3	9790.7
5°	9827.0	9827.0	9827.0	9821.8	9816.6	9816.6	9827.0	9827.0	9811.4	9827.0	9827.0
7.5°	9915.2	9899.6	9915.2	9894.4	9884.1	9889.2	9894.4	9884.1	9873.7	9878.9	9878.9
10°	10029.3	10013.6	10013.6	9998.2	9982.6	9972.2	9961.9	9935.9	9910.0	9904.8	9884.1
12.5°	10164.0	10138.1	10122.6	10091.4	10065.5	10029.3	9998.2	9956.7	9904.8	9868.5	9832.2
15°	10298.9	10257.4	10221.1	10169.2	10112.2	10049.9	9982.6	9915.2	9832.2	9759.6	9697.3
17.5°	10407.8	10350.8	10283.3	10200.4	10117.4	10024.0	9925.6	9827.0	9707.7	9614.3	9541.8
20°	10444.0	10361.2	10273.0	10164.0	10055.1	9925.6	9801.1	9671.4	9536.6	9438.1	9355.1
22.5°	10397.5	10298.9	10190.0	10075.9	9930.7	9790.7	9645.5	9495.1	9375.8	9241.0	9163.2
25°	10267.8	10148.5	10029.3	9894.4	9754.4	9598.8	9443.3	9287.7	9142.4	9069.9	8971.4
27.5°	10003.4	9873.7	9744.0	9604.1	9443.3	9287.7	9127.0	8976.5	8852.1	8753.5	8696.6
30°	9536.6	9386.2	9235.8	9085.5	8945.4	8784.6	8634.3	8509.8	8385.3	8307.5	8250.6
32.5°	8820.9	8686.2	8535.8	8390.5	8261.0	8126.1	8001.6	7892.7	7804.5	7752.7	7711.2
35°	7856.4	7721.6	7607.5	7503.8	7394.8	7337.9	7260.1	7197.8	7161.5	7140.8	7135.6
37.5°	6642.9	6565.1	6528.8	6508.1	6487.3	6471.9	6482.1	6508.1	6528.8	6565.1	6606.6
40°	5346.5	5413.9	5434.7	5507.3	5574.6	5662.8	5761.4	5875.5	5968.8	6088.0	6171.0
42.5°	4164.2	4288.6	4433.8	4589.4	4755.3	4916.1	5113.2	5294.6	5460.6	5610.9	5740.6
45°	3199.6	3391.4	3609.3	3832.2	4055.3	4288.6	4527.2	4750.1	4947.2	5108.0	5242.8
47.5°	2494.3	2707.0	2987.0	3261.9	3531.5	3806.3	4070.8	4304.1	4470.1	4625.7	4744.9
50°	1975.8	2219.5	2525.4	2841.8	3137.4	3427.7	3707.8	3925.6	4091.6	4216.1	4304.1
52.5°	1529.7	1820.2	2131.3	2463.3	2779.6	3095.9	3355.1	3557.4	3692.3	3801.1	3868.5
55°	1140.8	1426.1	1758.0	2100.2	2421.8	2727.7	2971.4	3147.8	3267.1	3329.3	3365.5
57.5°	824.5	1083.9	1415.7	1758.0	2048.3	2338.8	2535.8	2696.6	2764.0	2800.3	2815.9
60°	601.6	840.1	1135.6	1431.3	1706.1	1939.5	2110.6	2219.5	2271.4	2292.1	2286.9
62.5°	440.8	648.3	902.3	1151.2	1374.2	1566.0	1700.9	1773.5	1799.5	1809.8	1794.3
65°	337.0	497.8	715.6	907.5	1078.7	1218.6	1317.2	1363.9	1379.4	1374.2	1363.9
67.5°	249.0	373.4	534.2	679.4	803.8	912.7	964.6	1006.1	1016.4	1000.9	985.3
70°	176.4	274.8	388.9	487.5	580.8	643.1	700.0	705.2	705.2	700.0	689.8
72.5°	124.5	191.9	264.4	331.9	388.9	435.6	456.3	471.9	466.7	461.5	451.2
75°	83.0	119.3	191.9	207.5	259.2	274.8	295.6	295.6	300.7	285.2	285.2
77.5°	51.9	83.0	114.1	134.9	155.6	176.4	186.7	186.7	191.9	186.7	186.7
80°	31.1	51.9	62.2	93.4	93.4	108.9	114.1	119.3	108.9	124.5	108.9
82.5°	20.7	31.1	46.7	46.7	57.1	67.4	67.4	72.6	72.6	67.4	67.4
85°	15.6	20.7	25.9	31.1	31.1	36.3	31.1	31.1	36.3	41.5	36.3
87.5°	5.2	10.4	5.2	10.4	10.4	20.7	15.6	15.6	15.6	20.7	20.7
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: P248505

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	9769.9	9769.9	9769.9	9769.9
2.5°	9780.3	9785.5	9780.3	9780.3
5°	9827.0	9821.8	9827.0	9816.6
7.5°	9863.3	9863.3	9858.1	9858.1
10°	9863.3	9842.6	9842.6	9842.6
12.5°	9785.5	9759.6	9744.0	9733.6
15°	9650.6	9604.1	9583.2	9578.0
17.5°	9474.4	9432.9	9407.0	9391.4
20°	9272.1	9230.6	9199.5	9204.7
22.5°	9095.7	9049.2	9028.4	9018.0
25°	8919.5	8862.4	8846.9	8836.5
27.5°	8634.3	8603.2	8587.6	8572.1
30°	8198.7	8183.1	8157.2	8193.5
32.5°	7695.7	7669.7	7649.0	7664.6
35°	7140.8	7125.2	7140.8	7130.4
37.5°	6632.6	6648.1	6668.9	6679.2
40°	6233.3	6290.3	6311.1	6321.4
42.5°	5834.0	5901.4	5942.9	5968.8
45°	5341.3	5408.7	5455.4	5486.6
47.5°	4833.1	4890.2	4936.8	4931.7
50°	4371.6	4402.7	4423.4	4444.2
52.5°	3904.8	3904.8	3910.0	3910.0
55°	3375.9	3365.5	3360.3	3365.5
57.5°	2795.1	2784.8	2779.6	2764.0
60°	2266.2	2235.1	2214.3	2214.3
62.5°	1773.5	1737.2	1721.7	1716.5
65°	1332.7	1327.5	1296.4	1291.2
67.5°	964.6	943.8	923.1	928.3
70°	679.4	648.3	648.3	637.9
72.5°	440.8	425.2	420.0	420.0
75°	274.8	274.8	264.4	285.2
77.5°	181.5	181.5	176.4	181.5
80°	108.9	108.9	108.9	103.7
82.5°	67.4	72.6	67.4	67.4
85°	36.3	41.5	31.1	46.7
87.5°	20.7	25.9	20.7	25.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)