

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: P249315

Luminaire Tested: **LD8B200D010 ER8B200830 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249315  
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 ER8B200830 8LBDW0GPH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20599.0 lumens  
Efficiency: N/A  
Efficacy: 92.2 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

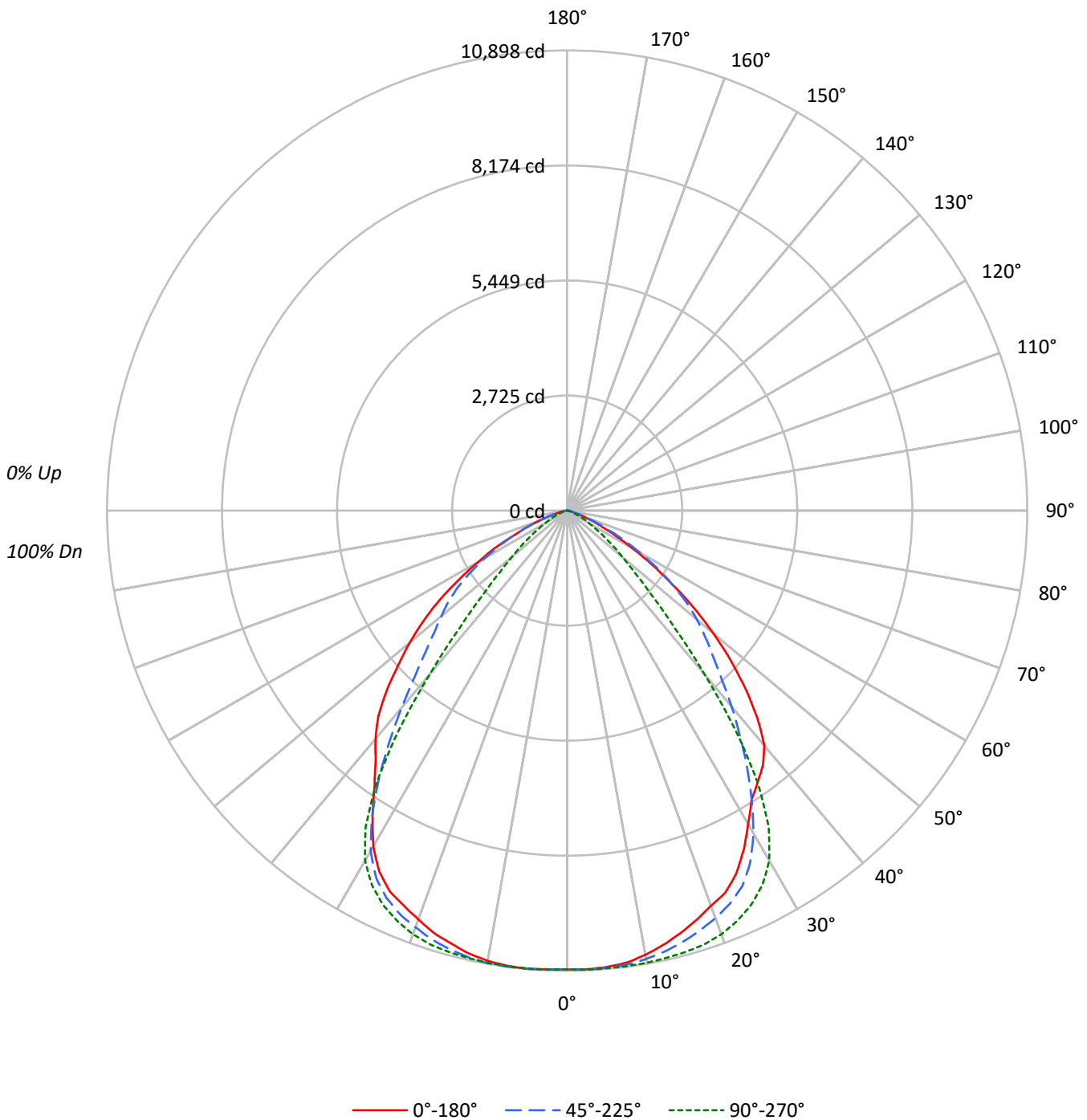
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	335141	335141	335141
5°	335880	336784	337146
10°	334466	340496	339034
15°	330759	345476	338957
20°	326788	350333	338083
25°	322549	350734	338428
30°	305149	340874	326959
35°	296038	296252	299332
40°	292368	203834	284153
45°	260517	122372	264075
50°	216616	81443	233412
55°	162462	56143	197901
60°	110098	37417	149316
65°	66405	24268	102581
70°	36821	13154	63112
75°	16680	5564	32669
80°	14508	6215	22783
85°	16523	8244	22714



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1037.2	5.0
10°-20°	3012.3	14.6
20°-30°	4572.1	22.2
30°-40°	4802.1	23.3
40°-50°	3600.3	17.5
50°-60°	2310.0	11.2
60°-70°	988.2	4.8
70°-80°	233.5	1.1
80°-90°	43.4	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°	8621.6	41.9
0°-40°	13423.7	65.2
0°-60°	19333.9	93.9
0°-90°	20599.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20599.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	10868	10868	10868	10868	10868	
5°	10851	10868	10880	10898	10892	###
15°	10361	10577	10822	10752	10618	2922
25°	9480	9813	10308	10122	9947	4331
35°	7864	7426	7870	7776	7952	4936
45°	5974	4883	2806	4743	6056	4575
55°	3022	3022	1044	3150	3681	2741
65°	910	1073	333	1383	1406	972
75°	140	163	47	280	274	204
85°	47	29	23	47	64	49
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°	10868.4	10868.4	10868.4	10868.4	10868.4	10868.4	10868.4	10868.4	10868.4	10868.4	10868.4
2.5°	10874.3	10886.0	10880.1	10880.1	10874.3	10880.1	10880.1	10891.8	10891.8	10880.1	10874.3
5°	10850.9	10862.6	10862.6	10850.9	10850.9	10880.1	10862.6	10874.3	10874.3	10868.4	10868.4
7.5°	10798.5	10798.5	10821.8	10804.3	10804.3	10821.8	10815.9	10827.6	10839.3	10845.2	10845.2
10°	10681.7	10693.4	10699.3	10699.3	10705.1	10722.6	10734.3	10757.7	10769.2	10780.9	10786.8
12.5°	10536.0	10553.4	10559.3	10553.4	10571.0	10594.2	10623.5	10652.6	10670.2	10693.4	10711.0
15°	10360.8	10360.8	10372.5	10390.1	10401.8	10436.8	10465.9	10500.9	10547.5	10576.8	10605.9
17.5°	10168.4	10180.1	10197.5	10197.5	10220.9	10279.2	10296.7	10349.3	10401.8	10430.9	10489.3
20°	9958.4	9970.0	9987.6	9999.3	10028.4	10075.1	10110.0	10156.7	10215.1	10267.6	10325.9
22.5°	9795.0	9771.7	9783.3	9795.0	9824.3	9865.1	9905.9	9964.2	10022.5	10075.1	10133.4
25°	9480.0	9485.8	9503.4	9514.9	9550.0	9585.0	9631.7	9701.6	9754.2	9812.6	9876.6
27.5°	9054.2	9060.0	9089.1	9089.1	9118.2	9176.6	9205.7	9264.1	9334.2	9392.5	9468.4
30°	8570.0	8581.5	8581.5	8604.9	8622.4	8651.6	8680.7	8739.1	8774.1	8826.6	8931.7
32.5°	8126.6	8138.2	8132.3	8126.6	8109.0	8103.2	8097.3	8109.0	8120.7	8138.2	8179.0
35°	7864.1	7834.8	7811.6	7770.7	7724.1	7665.7	7613.1	7543.2	7479.0	7426.4	7368.2
37.5°	7613.1	7607.3	7572.3	7513.9	7420.6	7315.7	7193.2	7041.5	6889.7	6726.4	6569.0
40°	7263.1	7245.6	7216.5	7134.8	7029.7	6901.4	6738.1	6551.4	6306.3	6055.5	5798.9
42.5°	6668.0	6673.9	6638.9	6574.7	6475.6	6353.0	6183.8	5979.7	5717.2	5419.6	5087.1
45°	5973.9	5973.9	5962.2	5909.6	5839.7	5740.5	5612.2	5443.0	5186.3	4882.9	4527.0
47.5°	5250.4	5256.3	5238.7	5227.2	5197.9	5133.8	5040.5	4912.1	4731.3	4439.5	4083.6
50°	4515.4	4515.4	4544.6	4538.7	4538.7	4515.4	4474.6	4398.7	4241.2	4007.8	3675.4
52.5°	3780.3	3792.0	3809.6	3832.8	3862.0	3908.6	3862.0	3827.0	3727.8	3546.9	3261.1
55°	3021.9	3033.6	3062.7	3103.6	3138.7	3185.3	3196.9	3196.9	3144.4	3021.9	2806.1
57.5°	2374.4	2356.9	2380.3	2415.2	2461.9	2508.6	2543.6	2584.4	2578.5	2496.9	2321.9
60°	1785.2	1791.0	1808.4	1843.5	1878.5	1919.3	1966.0	2001.0	2018.6	1977.7	1866.8
62.5°	1301.0	1301.0	1324.2	1359.2	1376.8	1435.2	1464.3	1481.8	1499.2	1493.4	1423.5
65°	910.1	921.7	933.4	951.0	968.4	1003.4	1020.9	1055.9	1067.6	1073.4	1020.9
67.5°	641.8	624.2	635.9	647.5	665.0	688.5	723.4	723.4	740.8	740.8	705.9
70°	408.4	408.4	414.2	431.7	443.4	449.2	460.9	472.5	490.0	484.2	484.2
72.5°	274.2	268.4	274.2	280.1	285.9	303.3	303.3	309.2	320.9	326.7	303.3
75°	140.0	145.9	157.5	151.7	169.2	157.5	163.3	180.9	175.0	163.3	163.3
77.5°	116.6	116.6	116.6	110.9	122.5	122.5	116.6	128.3	122.5	122.5	116.6
80°	81.7	87.5	81.7	75.8	81.7	75.8	75.8	75.8	75.8	75.8	69.9
82.5°	64.2	52.5	58.4	52.5	58.4	58.4	52.5	46.7	46.7	52.5	46.7
85°	46.7	35.0	40.8	40.8	35.0	35.0	35.0	35.0	35.0	29.1	29.1
87.5°	29.1	17.6	17.6	17.6	23.3	23.3	23.3	17.6	23.3	23.3	11.7
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°	10868.4	10868.4	10868.4	10868.4	10868.4	10868.4	10868.4	10868.4	10868.4	10868.4	10868.4
2.5°	10886.0	10880.1	10891.8	10886.0	10886.0	10880.1	10886.0	10880.1	10891.8	10868.4	10874.3
5°	10886.0	10874.3	10880.1	10886.0	10891.8	10880.1	10880.1	10880.1	10891.8	10880.1	10886.0
7.5°	10862.6	10856.7	10874.3	10886.0	10880.1	10874.3	10886.0	10880.1	10891.8	10886.0	10897.6
10°	10815.9	10821.8	10833.5	10850.9	10856.7	10862.6	10874.3	10874.3	10891.8	10868.4	10880.1
12.5°	10746.0	10769.2	10798.5	10810.1	10833.5	10833.5	10845.2	10850.9	10862.6	10856.7	10874.3
15°	10658.5	10687.6	10722.6	10751.8	10780.9	10798.5	10815.9	10821.8	10839.3	10821.8	10827.6
17.5°	10553.4	10588.4	10640.9	10675.9	10722.6	10740.1	10763.4	10775.1	10792.6	10780.9	10786.8
20°	10407.5	10448.5	10506.7	10559.3	10588.4	10629.2	10658.5	10675.9	10687.6	10675.9	10681.7
22.5°	10203.4	10261.8	10337.6	10378.4	10436.8	10471.7	10477.6	10518.4	10547.5	10518.4	10530.1
25°	9964.2	10022.5	10080.9	10168.4	10220.9	10261.8	10302.6	10308.4	10337.6	10331.7	10325.9
27.5°	9567.5	9643.4	9742.5	9812.6	9882.5	9946.7	9993.4	10005.0	10034.2	10022.5	10028.4
30°	9024.9	9106.7	9200.0	9310.8	9410.0	9474.1	9532.5	9573.3	9602.4	9585.0	9579.2
32.5°	8254.9	8336.6	8435.8	8546.6	8663.3	8756.5	8826.6	8879.1	8914.1	8902.4	8873.3
35°	7374.0	7397.3	7461.5	7549.0	7648.1	7747.3	7811.6	7869.8	7910.6	7922.3	7922.3
37.5°	6469.8	6394.0	6347.3	6347.3	6405.5	6446.4	6504.7	6539.7	6603.9	6627.2	6644.8
40°	5594.6	5419.6	5256.3	5133.8	5052.2	5046.3	5046.3	5063.7	5122.1	5197.9	5268.0
42.5°	4812.9	4532.9	4282.1	4054.5	3891.2	3797.9	3757.0	3762.9	3809.6	3879.5	3996.1
45°	4188.7	3838.7	3523.7	3249.4	3027.8	2881.9	2811.9	2806.1	2841.0	2922.7	3051.2
47.5°	3704.5	3331.1	2975.2	2660.2	2421.1	2263.5	2181.9	2158.6	2181.9	2257.7	2409.4
50°	3302.0	2917.0	2549.4	2222.7	1966.0	1802.7	1726.8	1697.7	1726.8	1791.0	1942.6
52.5°	2928.6	2531.9	2187.7	1872.7	1598.5	1458.4	1376.8	1359.2	1376.8	1452.6	1575.2
55°	2496.9	2158.6	1820.1	1505.1	1266.0	1126.0	1061.7	1044.3	1061.7	1131.8	1260.1
57.5°	2071.1	1779.3	1481.8	1195.9	991.8	869.2	810.9	787.5	828.4	875.0	1026.8
60°	1674.3	1441.0	1190.1	939.3	770.1	659.2	612.5	606.7	618.4	676.8	781.7
62.5°	1312.7	1120.1	921.7	717.6	577.5	530.9	472.5	466.8	478.3	513.3	595.1
65°	945.1	822.6	670.9	525.0	414.2	350.0	326.7	332.6	344.2	367.6	443.4
67.5°	659.2	571.7	466.8	367.6	285.9	256.7	233.4	227.5	233.4	274.2	315.0
70°	443.4	390.8	315.0	280.1	198.4	157.5	163.3	145.9	169.2	169.2	204.1
72.5°	291.6	256.7	210.0	163.3	140.0	110.9	110.9	105.1	116.6	122.5	151.7
75°	151.7	116.6	116.6	81.7	58.4	29.1	52.5	46.7	40.8	46.7	58.4
77.5°	105.1	87.5	81.7	64.2	58.4	46.7	46.7	46.7	46.7	52.5	58.4
80°	64.2	64.2	46.7	40.8	35.0	29.1	35.0	35.0	35.0	35.0	40.8
82.5°	40.8	35.0	35.0	29.1	29.1	23.3	23.3	23.3	23.3	23.3	35.0
85°	35.0	23.3	23.3	17.6	23.3	40.8	17.6	23.3	23.3	23.3	17.6
87.5°	11.7	17.6	17.6	17.6	11.7	5.9	11.7	17.6	17.6	29.1	23.3
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°	10868.4	10868.4	10868.4	10868.4	10868.4	10868.4	10868.4	10868.4	10868.4	10868.4	10868.4
2.5°	10886.0	10891.8	10891.8	10886.0	10886.0	10874.3	10897.6	10880.1	10886.0	10909.3	10891.8
5°	10897.6	10903.4	10903.4	10897.6	10897.6	10897.6	10903.4	10903.4	10897.6	10891.8	10903.4
7.5°	10921.0	10915.1	10915.1	10903.4	10903.4	10891.8	10903.4	10886.0	10897.6	10886.0	10903.4
10°	10891.8	10897.6	10891.8	10886.0	10886.0	10880.1	10880.1	10862.6	10868.4	10850.9	10862.6
12.5°	10874.3	10868.4	10868.4	10856.7	10845.2	10833.5	10827.6	10810.1	10810.1	10769.2	10786.8
15°	10827.6	10833.5	10815.9	10792.6	10780.9	10751.8	10740.1	10716.7	10693.4	10664.3	10670.2
17.5°	10786.8	10769.2	10746.0	10722.6	10675.9	10652.6	10629.2	10594.2	10582.5	10547.5	10536.0
20°	10664.3	10652.6	10623.5	10582.5	10553.4	10500.9	10477.6	10442.6	10413.4	10378.4	10360.8
22.5°	10506.7	10495.0	10460.0	10419.2	10372.5	10349.3	10325.9	10261.8	10232.5	10197.5	10191.7
25°	10308.4	10290.9	10255.9	10209.2	10185.8	10121.7	10098.3	10051.7	10040.1	10005.0	9999.3
27.5°	10005.0	9981.7	9940.9	9882.5	9841.7	9800.9	9777.6	9742.5	9730.9	9695.8	9690.1
30°	9550.0	9520.8	9439.1	9415.9	9345.8	9305.0	9305.0	9258.3	9264.1	9240.9	9240.9
32.5°	8832.5	8785.8	8721.6	8674.9	8628.2	8604.9	8604.9	8587.4	8599.1	8599.1	8610.8
35°	7881.5	7817.4	7782.3	7753.2	7753.2	7776.4	7846.5	7864.1	7899.1	7928.2	7951.6
37.5°	6662.2	6656.5	6697.3	6732.3	6819.8	6919.0	7041.5	7146.5	7245.6	7315.7	7385.6
40°	5343.8	5489.7	5606.3	5769.7	5903.8	6096.3	6318.0	6498.9	6668.0	6790.6	6919.0
42.5°	4171.1	4357.9	4602.9	4842.0	5081.3	5343.8	5635.6	5886.4	6108.0	6277.2	6411.4
45°	3249.4	3506.1	3803.7	4107.0	4416.2	4743.0	5046.3	5303.0	5536.4	5711.4	5845.5
47.5°	2619.4	2899.4	3237.7	3570.3	3920.3	4264.5	4602.9	4824.6	5017.0	5157.1	5279.7
50°	2164.3	2461.9	2817.8	3196.9	3546.9	3891.2	4182.8	4398.7	4556.3	4678.7	4754.5
52.5°	1808.4	2123.5	2502.7	2881.9	3231.9	3546.9	3809.6	3972.9	4101.2	4188.7	4258.6
55°	1493.4	1796.9	2152.7	2508.6	2852.8	3150.2	3366.1	3488.7	3587.7	3640.3	3681.1
57.5°	1219.3	1499.2	1826.0	2152.7	2450.2	2695.3	2864.5	2986.9	3033.6	3074.4	3068.6
60°	956.8	1219.3	1516.8	1796.9	2053.5	2251.8	2374.4	2444.4	2479.3	2496.9	2485.2
62.5°	752.6	991.8	1219.3	1464.3	1651.0	1820.1	1936.9	1936.9	1954.3	1960.2	1977.7
65°	560.0	740.8	939.3	1120.1	1271.7	1382.6	1446.9	1464.3	1487.7	1481.8	1470.1
67.5°	414.2	548.4	694.2	828.4	933.4	1003.4	1050.0	1091.0	1085.1	1073.4	1067.6
70°	285.9	373.4	501.7	583.4	659.2	729.3	740.8	746.7	752.6	758.4	746.7
72.5°	198.4	262.5	332.6	402.5	449.2	478.3	507.6	513.3	513.3	513.3	507.6
75°	99.2	134.2	198.4	227.5	268.4	280.1	303.3	303.3	320.9	297.5	291.6
77.5°	87.5	105.1	140.0	163.3	180.9	198.4	204.1	221.7	215.8	204.1	210.0
80°	52.5	64.2	87.5	99.2	122.5	128.3	134.2	140.0	134.2	140.0	140.0
82.5°	40.8	46.7	58.4	58.4	75.8	75.8	81.7	81.7	87.5	87.5	87.5
85°	23.3	40.8	35.0	69.9	46.7	46.7	58.4	69.9	58.4	58.4	69.9
87.5°	23.3	23.3	17.6	23.3	23.3	23.3	29.1	35.0	35.0	40.8	35.0
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: P249315

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBDW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	10868.4	10868.4	10868.4	10868.4
2.5°	10886.0	10897.6	10880.1	10874.3
5°	10903.4	10903.4	10891.8	10891.8
7.5°	10903.4	10903.4	10886.0	10874.3
10°	10856.7	10856.7	10839.3	10827.6
12.5°	10769.2	10769.2	10763.4	10746.0
15°	10658.5	10658.5	10635.1	10617.6
17.5°	10506.7	10518.4	10489.3	10489.3
20°	10343.4	10337.6	10314.3	10302.6
22.5°	10174.3	10162.6	10156.7	10121.7
25°	9993.4	9981.7	9964.2	9946.7
27.5°	9684.2	9678.4	9660.8	9637.5
30°	9211.6	9205.7	9182.5	9182.5
32.5°	8599.1	8593.2	8570.0	8575.8
35°	7963.2	7986.6	7974.9	7951.6
37.5°	7432.3	7449.8	7461.5	7449.8
40°	6988.9	7041.5	7047.3	7059.0
42.5°	6516.4	6586.4	6609.8	6621.4
45°	5950.5	6014.7	6067.2	6055.5
47.5°	5372.9	5419.6	5466.3	5431.3
50°	4818.8	4847.9	4865.5	4865.5
52.5°	4293.8	4293.8	4287.9	4293.8
55°	3692.8	3692.8	3669.5	3681.1
57.5°	3062.7	3074.4	3056.9	3027.8
60°	2479.3	2450.2	2438.5	2421.1
62.5°	1931.0	1931.0	1890.2	1942.6
65°	1446.9	1429.3	1411.7	1405.9
67.5°	1050.0	1044.3	1026.8	1020.9
70°	740.8	717.6	711.7	700.0
72.5°	495.9	495.9	484.2	484.2
75°	303.3	274.2	268.4	274.2
77.5°	210.0	204.1	204.1	198.4
80°	140.0	134.2	145.9	128.3
82.5°	87.5	93.4	87.5	93.4
85°	58.4	69.9	64.2	64.2
87.5°	35.0	35.0	35.0	35.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)