

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: P249306

Luminaire Tested: **LD8B200D010 ER8B200827 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249306  
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 ER8B200827 8LBDW0GPH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20095.0 lumens  
Efficiency: N/A  
Efficacy: 90.0 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

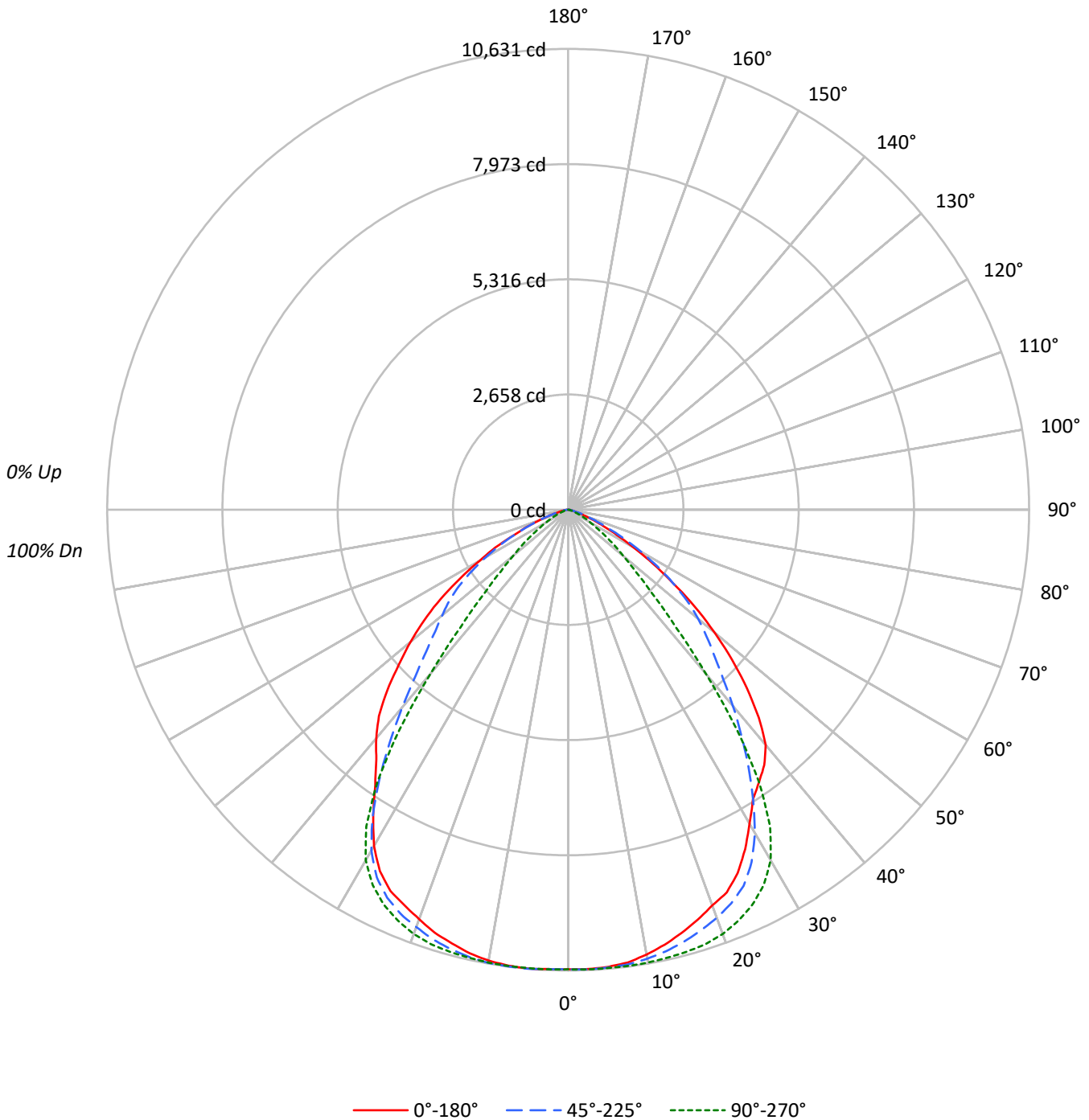
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	326942	326942	326942
5°	327662	328544	328900
10°	326284	332164	330739
15°	322666	337023	330663
20°	318794	341762	329810
25°	314655	342153	330150
30°	297683	332535	318958
35°	288795	289006	292006
40°	285215	198846	277201
45°	254141	119376	257617
50°	211320	79448	227698
55°	158489	54772	193057
60°	107403	36498	145665
65°	64786	23677	100071
70°	35919	12830	61570
75°	16275	5421	31871
80°	14153	6055	22233
85°	16098	8031	22184



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1011.9	5.0
10°-20°	2938.6	14.6
20°-30°	4460.2	22.2
30°-40°	4684.6	23.3
40°-50°	3512.2	17.5
50°-60°	2253.5	11.2
60°-70°	964.0	4.8
70°-80°	227.7	1.1
80°-90°	42.4	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°	8410.7	41.9
0°-40°	13095.2	65.2
0°-60°	18860.9	93.9
0°-90°	20095.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20095.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	10602	10602	10602	10602	10602	
5°	10585	10602	10614	10631	10625	###
15°	10107	10318	10557	10489	10358	2851
25°	9248	9572	10056	9874	9703	4225
35°	7672	7245	7677	7586	7757	4815
45°	5828	4763	2737	4627	5907	4463
55°	2948	2948	1019	3073	3591	2674
65°	888	1047	324	1349	1372	948
75°	137	159	46	273	268	199
85°	46	28	23	46	63	48
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°	10602.5	10602.5	10602.5	10602.5	10602.5	10602.5	10602.5	10602.5	10602.5	10602.5	10602.5
2.5°	10608.2	10619.6	10613.9	10613.9	10608.2	10613.9	10613.9	10625.4	10625.4	10613.9	10608.2
5°	10585.4	10596.8	10596.8	10585.4	10585.4	10613.9	10596.8	10608.2	10608.2	10602.5	10602.5
7.5°	10534.3	10534.3	10557.0	10540.0	10540.0	10557.0	10551.3	10562.7	10574.1	10579.8	10579.8
10°	10420.4	10431.8	10437.5	10437.5	10443.2	10460.2	10471.6	10494.5	10505.7	10517.2	10522.9
12.5°	10278.2	10295.2	10300.9	10295.2	10312.3	10335.0	10363.6	10392.0	10409.1	10431.8	10448.9
15°	10107.3	10107.3	10118.8	10135.9	10147.3	10181.4	10209.8	10243.9	10289.5	10318.0	10346.4
17.5°	9919.6	9931.0	9948.0	9948.0	9970.9	10027.7	10044.8	10096.1	10147.3	10175.7	10232.7
20°	9714.8	9726.1	9743.2	9754.6	9783.0	9828.6	9862.7	9908.2	9965.2	10016.4	10073.2
22.5°	9555.3	9532.6	9543.9	9555.3	9583.9	9623.7	9663.5	9720.4	9777.3	9828.6	9885.5
25°	9248.0	9253.7	9270.8	9282.1	9316.4	9350.5	9396.0	9464.3	9515.5	9572.5	9635.0
27.5°	8832.6	8838.3	8866.7	8866.7	8895.1	8952.1	8980.5	9037.5	9105.8	9162.7	9236.7
30°	8360.3	8371.6	8371.6	8394.4	8411.4	8439.9	8468.3	8525.3	8559.4	8610.7	8713.1
32.5°	7927.8	7939.0	7933.3	7927.8	7910.6	7904.9	7899.2	7910.6	7922.1	7939.0	7978.9
35°	7671.7	7643.1	7620.4	7580.6	7535.1	7478.1	7426.9	7358.6	7296.0	7244.7	7187.9
37.5°	7426.9	7421.2	7387.0	7330.1	7239.0	7136.7	7017.2	6869.2	6721.1	6561.8	6408.2
40°	7085.4	7068.3	7039.9	6960.2	6857.8	6732.6	6573.3	6391.1	6152.0	5907.4	5657.0
42.5°	6504.9	6510.6	6476.5	6413.8	6317.2	6197.6	6032.5	5833.4	5577.3	5287.0	4962.7
45°	5827.7	5827.7	5816.3	5765.0	5696.8	5600.0	5474.8	5309.8	5059.4	4763.4	4416.2
47.5°	5122.0	5127.7	5110.6	5099.3	5070.7	5008.2	4917.1	4791.9	4615.5	4330.9	3983.7
50°	4405.0	4405.0	4433.4	4427.7	4427.7	4405.0	4365.1	4291.1	4137.5	3909.8	3585.5
52.5°	3687.8	3699.2	3716.4	3739.1	3767.5	3813.0	3767.5	3733.3	3636.6	3460.1	3181.4
55°	2948.0	2959.4	2987.8	3027.6	3061.9	3107.4	3118.7	3118.7	3067.4	2948.0	2737.4
57.5°	2316.3	2299.2	2322.0	2356.1	2401.7	2447.2	2481.3	2521.2	2515.5	2435.8	2265.1
60°	1741.5	1747.2	1764.2	1798.4	1832.6	1872.4	1917.9	1952.0	1969.2	1929.3	1821.1
62.5°	1269.1	1269.1	1291.8	1326.0	1343.1	1400.0	1428.4	1445.6	1462.6	1456.9	1388.6
65°	887.9	899.2	910.6	927.7	944.7	978.8	995.9	1030.0	1041.5	1047.2	995.9
67.5°	626.1	608.9	620.4	631.7	648.8	671.6	705.7	705.7	722.7	722.7	688.6
70°	398.4	398.4	404.1	421.1	432.5	438.2	449.6	460.9	478.1	472.3	472.3
72.5°	267.5	261.8	267.5	273.2	278.9	295.9	295.9	301.6	313.0	318.7	295.9
75°	136.6	142.3	153.6	148.0	165.0	153.6	159.3	176.4	170.7	159.3	159.3
77.5°	113.8	113.8	113.8	108.2	119.5	119.5	113.8	125.2	119.5	119.5	113.8
80°	79.7	85.4	79.7	73.9	79.7	73.9	73.9	73.9	73.9	73.9	68.2
82.5°	62.7	51.2	57.0	51.2	57.0	57.0	51.2	45.5	45.5	51.2	45.5
85°	45.5	34.1	39.8	39.8	34.1	34.1	34.1	34.1	34.1	28.4	28.4
87.5°	28.4	17.1	17.1	17.1	22.7	22.7	22.7	17.1	22.7	22.7	11.4
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°	10602.5	10602.5	10602.5	10602.5	10602.5	10602.5	10602.5	10602.5	10602.5	10602.5	10602.5
2.5°	10619.6	10613.9	10625.4	10619.6	10619.6	10613.9	10619.6	10613.9	10625.4	10602.5	10608.2
5°	10619.6	10608.2	10613.9	10619.6	10625.4	10613.9	10613.9	10613.9	10625.4	10613.9	10619.6
7.5°	10596.8	10591.1	10608.2	10619.6	10613.9	10608.2	10619.6	10613.9	10625.4	10619.6	10630.9
10°	10551.3	10557.0	10568.4	10585.4	10591.1	10596.8	10608.2	10608.2	10625.4	10602.5	10613.9
12.5°	10483.0	10505.7	10534.3	10545.6	10568.4	10568.4	10579.8	10585.4	10596.8	10591.1	10608.2
15°	10397.7	10426.1	10460.2	10488.7	10517.2	10534.3	10551.3	10557.0	10574.1	10557.0	10562.7
17.5°	10295.2	10329.3	10380.6	10414.7	10460.2	10477.3	10500.0	10511.4	10528.6	10517.2	10522.9
20°	10152.9	10192.8	10249.7	10300.9	10329.3	10369.1	10397.7	10414.7	10426.1	10414.7	10420.4
22.5°	9953.7	10010.7	10084.6	10124.5	10181.4	10215.5	10221.2	10261.1	10289.5	10261.1	10272.5
25°	9720.4	9777.3	9834.3	9919.6	9970.9	10010.7	10050.5	10056.2	10084.6	10078.9	10073.2
27.5°	9333.4	9407.5	9504.1	9572.5	9640.7	9703.4	9748.9	9760.2	9788.7	9777.3	9783.0
30°	8804.1	8883.9	8974.9	9083.0	9179.8	9242.3	9299.3	9339.1	9367.5	9350.5	9344.8
32.5°	8052.9	8132.6	8229.4	8337.4	8451.3	8542.3	8610.7	8661.9	8696.0	8684.6	8656.2
35°	7193.6	7216.3	7279.0	7364.3	7461.0	7557.8	7620.4	7677.3	7717.1	7728.5	7728.5
37.5°	6311.5	6237.5	6192.0	6192.0	6248.8	6288.6	6345.6	6379.7	6442.4	6465.1	6482.2
40°	5457.7	5287.0	5127.7	5008.2	4928.5	4922.8	4922.8	4939.8	4996.8	5070.7	5139.1
42.5°	4695.2	4422.0	4177.3	3955.3	3796.0	3704.9	3665.1	3670.8	3716.4	3784.6	3898.4
45°	4086.2	3744.8	3437.4	3169.9	2953.7	2811.4	2743.1	2737.4	2771.5	2851.2	2976.5
47.5°	3613.9	3249.6	2902.4	2595.1	2361.9	2208.1	2128.5	2105.8	2128.5	2202.4	2350.4
50°	3221.2	2845.6	2487.0	2168.3	1917.9	1758.6	1684.5	1656.1	1684.5	1747.2	1895.1
52.5°	2856.9	2469.9	2134.2	1826.8	1559.3	1422.7	1343.1	1326.0	1343.1	1417.0	1536.6
55°	2435.8	2105.8	1775.6	1468.3	1235.0	1098.4	1035.8	1018.8	1035.8	1104.1	1229.3
57.5°	2020.4	1735.8	1445.6	1166.7	967.5	847.9	791.1	768.3	808.1	853.6	1001.6
60°	1633.3	1405.7	1160.9	916.3	751.3	643.1	597.5	591.8	603.2	660.2	762.5
62.5°	1280.6	1092.7	899.2	700.0	563.4	517.9	460.9	455.4	466.6	500.8	580.5
65°	922.0	802.5	654.5	512.2	404.1	341.4	318.7	324.5	335.7	358.6	432.5
67.5°	643.1	557.7	455.4	358.6	278.9	250.4	227.7	222.0	227.7	267.5	307.3
70°	432.5	381.3	307.3	273.2	193.6	153.6	159.3	142.3	165.0	165.0	199.1
72.5°	284.5	250.4	204.8	159.3	136.6	108.2	108.2	102.5	113.8	119.5	148.0
75°	148.0	113.8	113.8	79.7	57.0	28.4	51.2	45.5	39.8	45.5	57.0
77.5°	102.5	85.4	79.7	62.7	57.0	45.5	45.5	45.5	45.5	51.2	57.0
80°	62.7	62.7	45.5	39.8	34.1	28.4	34.1	34.1	34.1	34.1	39.8
82.5°	39.8	34.1	34.1	28.4	28.4	22.7	22.7	22.7	22.7	22.7	34.1
85°	34.1	22.7	22.7	17.1	22.7	39.8	17.1	22.7	22.7	22.7	17.1
87.5°	11.4	17.1	17.1	17.1	11.4	5.7	11.4	17.1	17.1	28.4	22.7
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	10602.5	10602.5	10602.5	10602.5	10602.5	10602.5	10602.5	10602.5	10602.5	10602.5	10602.5
2.5°	10619.6	10625.4	10625.4	10619.6	10619.6	10608.2	10630.9	10613.9	10619.6	10642.3	10625.4
5°	10630.9	10636.6	10636.6	10630.9	10630.9	10630.9	10636.6	10636.6	10630.9	10625.4	10636.6
7.5°	10653.8	10648.1	10648.1	10636.6	10636.6	10625.4	10636.6	10619.6	10630.9	10619.6	10636.6
10°	10625.4	10630.9	10625.4	10619.6	10619.6	10613.9	10613.9	10596.8	10602.5	10585.4	10596.8
12.5°	10608.2	10602.5	10602.5	10591.1	10579.8	10568.4	10562.7	10545.6	10545.6	10505.7	10522.9
15°	10562.7	10568.4	10551.3	10528.6	10517.2	10488.7	10477.3	10454.5	10431.8	10403.4	10409.1
17.5°	10522.9	10505.7	10483.0	10460.2	10414.7	10392.0	10369.1	10335.0	10323.6	10289.5	10278.2
20°	10403.4	10392.0	10363.6	10323.6	10295.2	10243.9	10221.2	10187.1	10158.6	10124.5	10107.3
22.5°	10249.7	10238.2	10204.1	10164.3	10118.8	10096.1	10073.2	10010.7	9982.2	9948.0	9942.3
25°	10056.2	10039.1	10005.0	9959.4	9936.6	9874.1	9851.3	9805.7	9794.4	9760.2	9754.6
27.5°	9760.2	9737.5	9697.7	9640.7	9600.9	9561.1	9538.3	9504.1	9492.8	9458.6	9453.0
30°	9316.4	9287.8	9208.2	9185.5	9117.1	9077.3	9077.3	9031.8	9037.5	9014.8	9014.8
32.5°	8616.4	8570.8	8508.2	8462.6	8417.1	8394.4	8394.4	8377.3	8388.7	8388.7	8400.1
35°	7688.7	7626.1	7591.9	7563.5	7563.5	7586.2	7654.5	7671.7	7705.8	7734.2	7757.0
37.5°	6499.2	6493.6	6533.4	6567.5	6652.9	6749.7	6869.2	6971.7	7068.3	7136.7	7204.9
40°	5213.0	5355.4	5469.1	5628.6	5759.3	5947.2	6163.4	6339.9	6504.9	6624.5	6749.7
42.5°	4069.1	4251.2	4490.3	4723.6	4957.0	5213.0	5497.7	5742.3	5958.6	6123.6	6254.5
45°	3169.9	3420.3	3710.6	4006.6	4308.2	4626.9	4922.8	5173.2	5400.9	5571.6	5702.5
47.5°	2555.3	2828.5	3158.5	3483.0	3824.4	4160.2	4490.3	4706.6	4894.3	5030.9	5150.5
50°	2111.3	2401.7	2748.8	3118.7	3460.1	3796.0	4080.5	4291.1	4444.8	4564.3	4638.2
52.5°	1764.2	2071.5	2441.5	2811.4	3152.8	3460.1	3716.4	3875.7	4000.9	4086.2	4154.5
55°	1456.9	1752.9	2100.1	2447.2	2783.0	3073.2	3283.7	3403.3	3500.0	3551.2	3591.0
57.5°	1189.5	1462.6	1781.3	2100.1	2390.3	2629.4	2794.4	2913.9	2959.4	2999.2	2993.5
60°	933.4	1189.5	1479.7	1752.9	2003.3	2196.7	2316.3	2384.6	2418.7	2435.8	2424.4
62.5°	734.1	967.5	1189.5	1428.4	1610.6	1775.6	1889.5	1889.5	1906.5	1912.2	1929.3
65°	546.3	722.7	916.3	1092.7	1240.6	1348.8	1411.5	1428.4	1451.3	1445.6	1434.2
67.5°	404.1	535.0	677.2	808.1	910.6	978.8	1024.3	1064.3	1058.6	1047.2	1041.5
70°	278.9	364.3	489.5	569.1	643.1	711.4	722.7	728.4	734.1	739.8	728.4
72.5°	193.6	256.1	324.5	392.7	438.2	466.6	495.2	500.8	500.8	500.8	495.2
75°	96.8	130.9	193.6	222.0	261.8	273.2	295.9	295.9	313.0	290.2	284.5
77.5°	85.4	102.5	136.6	159.3	176.4	193.6	199.1	216.3	210.6	199.1	204.8
80°	51.2	62.7	85.4	96.8	119.5	125.2	130.9	136.6	130.9	136.6	136.6
82.5°	39.8	45.5	57.0	57.0	73.9	73.9	79.7	79.7	85.4	85.4	85.4
85°	22.7	39.8	34.1	68.2	45.5	45.5	57.0	68.2	57.0	57.0	68.2
87.5°	22.7	22.7	17.1	22.7	22.7	22.7	28.4	34.1	34.1	39.8	34.1
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: P249306

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBDW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	10602.5	10602.5	10602.5	10602.5
2.5°	10619.6	10630.9	10613.9	10608.2
5°	10636.6	10636.6	10625.4	10625.4
7.5°	10636.6	10636.6	10619.6	10608.2
10°	10591.1	10591.1	10574.1	10562.7
12.5°	10505.7	10505.7	10500.0	10483.0
15°	10397.7	10397.7	10374.8	10357.8
17.5°	10249.7	10261.1	10232.7	10232.7
20°	10090.3	10084.6	10061.9	10050.5
22.5°	9925.3	9913.9	9908.2	9874.1
25°	9748.9	9737.5	9720.4	9703.4
27.5°	9447.3	9441.6	9424.4	9401.7
30°	8986.2	8980.5	8957.8	8957.8
32.5°	8388.7	8383.0	8360.3	8366.0
35°	7768.3	7791.2	7779.7	7757.0
37.5°	7250.4	7267.6	7279.0	7267.6
40°	6817.9	6869.2	6874.9	6886.3
42.5°	6357.0	6425.2	6448.1	6459.4
45°	5804.9	5867.5	5918.8	5907.4
47.5°	5241.5	5287.0	5332.5	5298.4
50°	4700.9	4729.3	4746.4	4746.4
52.5°	4188.7	4188.7	4183.0	4188.7
55°	3602.5	3602.5	3579.8	3591.0
57.5°	2987.8	2999.2	2982.1	2953.7
60°	2418.7	2390.3	2378.8	2361.9
62.5°	1883.8	1883.8	1844.0	1895.1
65°	1411.5	1394.3	1377.2	1371.5
67.5°	1024.3	1018.8	1001.6	995.9
70°	722.7	700.0	694.3	682.9
72.5°	483.8	483.8	472.3	472.3
75°	295.9	267.5	261.8	267.5
77.5°	204.8	199.1	199.1	193.6
80°	136.6	130.9	142.3	125.2
82.5°	85.4	91.1	85.4	91.1
85°	57.0	68.2	62.7	62.7
87.5°	34.1	34.1	34.1	34.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)