

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: P249234

Luminaire Tested: **LD8B200D010 ER8B200850 8LBDW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249234  
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 ER8B200850 8LBDW0WMH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 5000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22081.0 lumens  
Efficiency: N/A  
Efficacy: 98.9 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

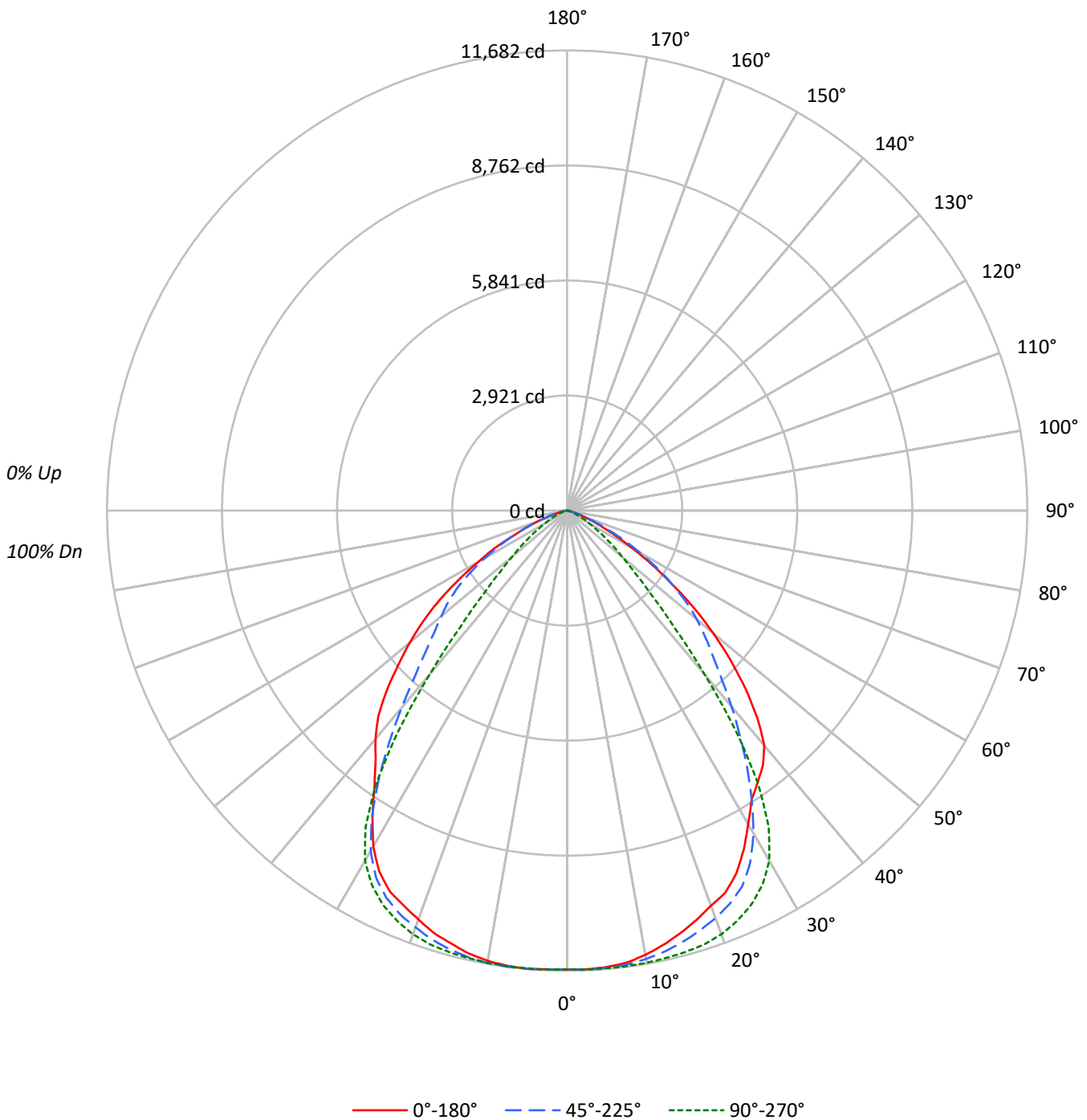
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	359255	359255	359255
5°	360046	361015	361405
10°	358529	364992	363426
15°	354559	370329	363344
20°	350300	375539	362406
25°	345753	375970	362779
30°	327101	365400	350480
35°	317337	317566	320868
40°	313405	218498	304598
45°	279260	131176	283076
50°	232203	87301	250202
55°	174150	60186	212137
60°	118017	40106	160059
65°	71185	26012	109958
70°	39472	14101	67656
75°	17883	5957	35016
80°	15538	6659	24435
85°	17690	8810	24377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1111.9	5.0
10°-20°	3229.0	14.6
20°-30°	4901.0	22.2
30°-40°	5147.5	23.3
40°-50°	3859.3	17.5
50°-60°	2476.2	11.2
60°-70°	1059.3	4.8
70°-80°	250.3	1.1
80°-90°	46.5	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°	9241.9	41.9
0°-40°	14389.4	65.2
0°-60°	20724.9	93.9
0°-90°	22081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22081.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	11650	11650	11650	11650	11650	
5°	11632	11650	11663	11682	11676	###
15°	11106	11338	11600	11525	11382	3133
25°	10162	10518	11050	10850	10662	4642
35°	8430	7961	8436	8336	8524	5291
45°	6404	5234	3008	5084	6491	4904
55°	3239	3239	1120	3377	3946	2938
65°	976	1151	356	1482	1507	1041
75°	150	175	50	300	294	219
85°	50	31	25	50	69	53
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°	11650.4	11650.4	11650.4	11650.4	11650.4	11650.4	11650.4	11650.4	11650.4	11650.4	11650.4
2.5°	11656.6	11669.2	11662.9	11662.9	11656.6	11662.9	11662.9	11675.5	11675.5	11662.9	11656.6
5°	11631.6	11644.1	11644.1	11631.6	11631.6	11662.9	11644.1	11656.6	11656.6	11650.4	11650.4
7.5°	11575.4	11575.4	11600.3	11581.7	11581.7	11600.3	11594.1	11606.6	11619.2	11625.4	11625.4
10°	11450.2	11462.8	11469.0	11469.0	11475.3	11494.0	11506.5	11531.6	11544.0	11556.6	11562.8
12.5°	11294.0	11312.7	11318.9	11312.7	11331.5	11356.4	11387.8	11419.0	11437.8	11462.8	11481.6
15°	11106.3	11106.3	11118.8	11137.6	11150.2	11187.7	11218.9	11256.4	11306.4	11337.8	11369.0
17.5°	10900.0	10912.5	10931.2	10931.2	10956.3	11018.7	11037.5	11093.9	11150.2	11181.4	11244.0
20°	10674.9	10687.3	10706.1	10718.7	10749.9	10799.9	10837.4	10887.4	10950.0	11006.3	11068.8
22.5°	10499.7	10474.8	10487.2	10499.7	10531.1	10574.8	10618.6	10681.0	10743.6	10799.9	10862.5
25°	10162.0	10168.3	10187.1	10199.5	10237.1	10274.6	10324.7	10399.6	10455.9	10518.5	10587.2
27.5°	9705.6	9711.8	9743.0	9743.0	9774.3	9836.8	9868.1	9930.6	10005.8	10068.2	10149.6
30°	9186.5	9198.9	9198.9	9224.0	9242.7	9274.1	9305.3	9367.9	9405.3	9461.6	9574.3
32.5°	8711.3	8723.7	8717.4	8711.3	8692.4	8686.2	8679.9	8692.4	8705.0	8723.7	8767.4
35°	8429.9	8398.5	8373.6	8329.8	8279.8	8217.2	8160.9	8085.9	8017.0	7960.7	7898.3
37.5°	8160.9	8154.6	8117.1	8054.5	7954.5	7842.0	7710.7	7548.1	7385.4	7210.3	7041.6
40°	7785.7	7766.9	7735.6	7648.1	7535.5	7397.9	7222.9	7022.8	6760.0	6491.2	6216.1
42.5°	7147.8	7154.0	7116.6	7047.7	6941.5	6810.1	6628.7	6409.9	6128.5	5809.5	5453.1
45°	6403.7	6403.7	6391.1	6334.8	6259.8	6153.5	6015.9	5834.6	5559.5	5234.2	4852.7
47.5°	5628.2	5634.5	5615.6	5603.2	5571.9	5503.2	5403.1	5265.5	5071.7	4758.9	4377.4
50°	4840.3	4840.3	4871.5	4865.2	4865.2	4840.3	4796.5	4715.1	4546.4	4296.2	3939.8
52.5°	4052.3	4064.8	4083.6	4108.6	4139.8	4189.8	4139.8	4102.3	3996.0	3802.1	3495.8
55°	3239.3	3251.9	3283.1	3326.8	3364.5	3414.5	3426.9	3426.9	3370.6	3239.3	3008.0
57.5°	2545.2	2526.4	2551.5	2589.0	2639.0	2689.1	2726.6	2770.3	2764.1	2676.5	2488.9
60°	1913.6	1919.9	1938.5	1976.2	2013.7	2057.4	2107.5	2145.0	2163.8	2120.0	2001.1
62.5°	1394.6	1394.6	1419.5	1457.0	1475.8	1538.4	1569.6	1588.4	1607.1	1600.8	1525.9
65°	975.6	988.0	1000.6	1019.4	1038.1	1075.5	1094.4	1131.9	1144.4	1150.7	1094.4
67.5°	688.0	669.1	681.7	694.1	712.9	738.0	775.5	775.5	794.1	794.1	756.7
70°	437.8	437.8	444.0	462.7	475.3	481.5	494.1	506.5	525.3	519.0	519.0
72.5°	293.9	287.7	293.9	300.2	306.5	325.2	325.2	331.4	344.0	350.2	325.2
75°	150.1	156.4	168.8	162.7	181.3	168.8	175.1	193.9	187.6	175.1	175.1
77.5°	125.0	125.0	125.0	118.9	131.3	131.3	125.0	137.6	131.3	131.3	125.0
80°	87.5	93.8	87.5	81.3	87.5	81.3	81.3	81.3	81.3	81.3	75.0
82.5°	68.9	56.3	62.6	56.3	62.6	62.6	56.3	50.0	50.0	56.3	50.0
85°	50.0	37.5	43.8	43.8	37.5	37.5	37.5	37.5	37.5	31.2	31.2
87.5°	31.2	18.8	18.8	18.8	24.9	24.9	24.9	18.8	24.9	24.9	12.5
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°	11650.4	11650.4	11650.4	11650.4	11650.4	11650.4	11650.4	11650.4	11650.4	11650.4	11650.4
2.5°	11669.2	11662.9	11675.5	11669.2	11669.2	11662.9	11669.2	11662.9	11675.5	11650.4	11656.6
5°	11669.2	11656.6	11662.9	11669.2	11675.5	11662.9	11662.9	11662.9	11675.5	11662.9	11669.2
7.5°	11644.1	11637.8	11656.6	11669.2	11662.9	11656.6	11669.2	11662.9	11675.5	11669.2	11681.6
10°	11594.1	11600.3	11612.9	11631.6	11637.8	11644.1	11656.6	11656.6	11675.5	11650.4	11662.9
12.5°	11519.1	11544.0	11575.4	11587.8	11612.9	11612.9	11625.4	11631.6	11644.1	11637.8	11656.6
15°	11425.3	11456.5	11494.0	11525.4	11556.6	11575.4	11594.1	11600.3	11619.2	11600.3	11606.6
17.5°	11312.7	11350.2	11406.5	11444.0	11494.0	11512.8	11537.8	11550.3	11569.1	11556.6	11562.8
20°	11156.3	11200.2	11262.6	11318.9	11350.2	11393.9	11425.3	11444.0	11456.5	11444.0	11450.2
22.5°	10937.5	11000.1	11081.3	11125.1	11187.7	11225.1	11231.4	11275.2	11306.4	11275.2	11287.7
25°	10681.0	10743.6	10806.2	10900.0	10956.3	11000.1	11043.8	11050.1	11081.3	11075.0	11068.8
27.5°	10255.8	10337.2	10443.4	10518.5	10593.5	10662.4	10712.4	10724.8	10756.2	10743.6	10749.9
30°	9674.2	9761.9	9861.9	9980.7	10087.0	10155.7	10218.3	10262.1	10293.3	10274.6	10268.3
32.5°	8848.8	8936.4	9042.7	9161.4	9286.6	9386.5	9461.6	9518.0	9555.4	9542.9	9511.7
35°	7904.6	7929.5	7998.4	8092.2	8198.4	8304.7	8373.6	8436.0	8479.8	8492.3	8492.3
37.5°	6935.2	6854.0	6803.9	6803.9	6866.4	6910.1	6972.7	7010.2	7079.1	7104.0	7122.8
40°	5997.1	5809.5	5634.5	5503.2	5415.6	5409.4	5409.4	5428.0	5490.6	5571.9	5647.0
42.5°	5159.2	4859.0	4590.1	4346.2	4171.2	4071.1	4027.3	4033.6	4083.6	4158.6	4283.6
45°	4490.1	4114.9	3777.2	3483.2	3245.6	3089.2	3014.2	3008.0	3045.4	3133.0	3270.7
47.5°	3971.0	3570.7	3189.3	2851.6	2595.3	2426.4	2338.8	2313.9	2338.8	2420.1	2582.7
50°	3539.5	3126.8	2732.8	2382.6	2107.5	1932.4	1851.0	1819.8	1851.0	1919.9	2082.4
52.5°	3139.2	2714.0	2345.1	2007.4	1713.5	1563.4	1475.8	1457.0	1475.8	1557.1	1688.5
55°	2676.5	2313.9	1951.1	1613.4	1357.1	1207.0	1138.1	1119.5	1138.1	1213.2	1350.8
57.5°	2220.1	1907.3	1588.4	1282.0	1063.1	931.7	869.3	844.2	887.9	938.0	1100.6
60°	1794.7	1544.7	1275.7	1006.8	825.5	706.6	656.6	650.3	662.9	725.4	837.9
62.5°	1407.1	1200.7	988.0	769.2	619.1	569.1	506.5	500.4	512.8	550.2	637.9
65°	1013.1	881.8	719.2	562.8	444.0	375.2	350.2	356.5	368.9	394.0	475.3
67.5°	706.6	612.8	500.4	394.0	306.5	275.1	250.2	243.9	250.2	293.9	337.7
70°	475.3	419.0	337.7	300.2	212.7	168.8	175.1	156.4	181.3	181.3	218.8
72.5°	312.6	275.1	225.1	175.1	150.1	118.9	118.9	112.6	125.0	131.3	162.7
75°	162.7	125.0	125.0	87.5	62.6	31.2	56.3	50.0	43.8	50.0	62.6
77.5°	112.6	93.8	87.5	68.9	62.6	50.0	50.0	50.0	50.0	56.3	62.6
80°	68.9	68.9	50.0	43.8	37.5	31.2	37.5	37.5	37.5	37.5	43.8
82.5°	43.8	37.5	37.5	31.2	31.2	24.9	24.9	24.9	24.9	24.9	37.5
85°	37.5	24.9	24.9	18.8	24.9	43.8	18.8	24.9	24.9	24.9	18.8
87.5°	12.5	18.8	18.8	18.8	12.5	6.3	12.5	18.8	18.8	31.2	24.9
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°	11650.4	11650.4	11650.4	11650.4	11650.4	11650.4	11650.4	11650.4	11650.4	11650.4	11650.4
2.5°	11669.2	11675.5	11675.5	11669.2	11669.2	11656.6	11681.6	11662.9	11669.2	11694.1	11675.5
5°	11681.6	11687.9	11687.9	11681.6	11681.6	11681.6	11687.9	11687.9	11681.6	11675.5	11687.9
7.5°	11706.7	11700.4	11700.4	11687.9	11687.9	11675.5	11687.9	11669.2	11681.6	11669.2	11687.9
10°	11675.5	11681.6	11675.5	11669.2	11669.2	11662.9	11662.9	11644.1	11650.4	11631.6	11644.1
12.5°	11656.6	11650.4	11650.4	11637.8	11625.4	11612.9	11606.6	11587.8	11587.8	11544.0	11562.8
15°	11606.6	11612.9	11594.1	11569.1	11556.6	11525.4	11512.8	11487.7	11462.8	11431.6	11437.8
17.5°	11562.8	11544.0	11519.1	11494.0	11444.0	11419.0	11393.9	11356.4	11343.9	11306.4	11294.0
20°	11431.6	11419.0	11387.8	11343.9	11312.7	11256.4	11231.4	11193.9	11162.6	11125.1	11106.3
22.5°	11262.6	11250.1	11212.6	11168.8	11118.8	11093.9	11068.8	11000.1	10968.7	10931.2	10924.9
25°	11050.1	11031.3	10993.8	10943.7	10918.7	10849.9	10824.9	10774.8	10762.4	10724.8	10718.7
27.5°	10724.8	10699.8	10656.1	10593.5	10549.7	10506.0	10481.0	10443.4	10431.0	10393.4	10387.2
30°	10237.1	10205.8	10118.2	10093.3	10018.2	9974.4	9974.4	9924.4	9930.6	9905.7	9905.7
32.5°	9467.9	9417.9	9349.0	9299.0	9249.0	9224.0	9224.0	9205.2	9217.7	9217.7	9230.3
35°	8448.5	8379.8	8342.2	8311.0	8311.0	8335.9	8411.1	8429.9	8467.4	8498.6	8523.7
37.5°	7141.5	7135.4	7179.1	7216.6	7310.4	7416.8	7548.1	7660.7	7766.9	7842.0	7917.0
40°	5728.3	5884.6	6009.6	6184.8	6328.5	6534.9	6772.6	6966.4	7147.8	7279.2	7416.8
42.5°	4471.2	4671.4	4934.1	5190.4	5446.9	5728.3	6041.0	6309.9	6547.5	6728.8	6872.6
45°	3483.2	3758.3	4077.4	4402.5	4734.0	5084.2	5409.4	5684.5	5934.7	6122.3	6266.1
47.5°	2807.8	3108.0	3470.7	3827.2	4202.4	4571.3	4934.1	5171.7	5378.0	5528.1	5659.5
50°	2320.0	2639.0	3020.5	3426.9	3802.1	4171.2	4483.8	4715.1	4884.1	5015.4	5096.6
52.5°	1938.5	2276.2	2682.8	3089.2	3464.4	3802.1	4083.6	4258.7	4396.3	4490.1	4565.0
55°	1600.8	1926.1	2307.6	2689.1	3058.0	3376.9	3608.2	3739.7	3845.9	3902.2	3945.9
57.5°	1307.0	1607.1	1957.4	2307.6	2626.5	2889.2	3070.5	3201.8	3251.9	3295.6	3289.4
60°	1025.7	1307.0	1625.9	1926.1	2201.3	2413.8	2545.2	2620.2	2657.7	2676.5	2664.0
62.5°	806.7	1063.1	1307.0	1569.6	1769.8	1951.1	2076.3	2076.3	2094.9	2101.2	2120.0
65°	600.3	794.1	1006.8	1200.7	1363.2	1482.1	1551.0	1569.6	1594.7	1588.4	1575.9
67.5°	444.0	587.9	744.1	887.9	1000.6	1075.5	1125.6	1169.5	1163.2	1150.7	1144.4
70°	306.5	400.3	537.8	625.4	706.6	781.7	794.1	800.4	806.7	813.0	800.4
72.5°	212.7	281.4	356.5	431.5	481.5	512.8	544.1	550.2	550.2	550.2	544.1
75°	106.3	143.8	212.7	243.9	287.7	300.2	325.2	325.2	344.0	318.9	312.6
77.5°	93.8	112.6	150.1	175.1	193.9	212.7	218.8	237.6	231.4	218.8	225.1
80°	56.3	68.9	93.8	106.3	131.3	137.6	143.8	150.1	143.8	150.1	150.1
82.5°	43.8	50.0	62.6	62.6	81.3	81.3	87.5	87.5	93.8	93.8	93.8
85°	24.9	43.8	37.5	75.0	50.0	50.0	62.6	75.0	62.6	62.6	75.0
87.5°	24.9	24.9	18.8	24.9	24.9	24.9	31.2	37.5	37.5	43.8	37.5
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: P249234

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	11650.4	11650.4	11650.4	11650.4
2.5°	11669.2	11681.6	11662.9	11656.6
5°	11687.9	11687.9	11675.5	11675.5
7.5°	11687.9	11687.9	11669.2	11656.6
10°	11637.8	11637.8	11619.2	11606.6
12.5°	11544.0	11544.0	11537.8	11519.1
15°	11425.3	11425.3	11400.2	11381.5
17.5°	11262.6	11275.2	11244.0	11244.0
20°	11087.6	11081.3	11056.4	11043.8
22.5°	10906.3	10893.7	10887.4	10849.9
25°	10712.4	10699.8	10681.0	10662.4
27.5°	10381.0	10374.7	10355.9	10330.9
30°	9874.3	9868.1	9843.1	9843.1
32.5°	9217.7	9211.5	9186.5	9192.8
35°	8536.1	8561.2	8548.6	8523.7
37.5°	7967.0	7985.8	7998.4	7985.8
40°	7491.7	7548.1	7554.3	7566.9
42.5°	6985.3	7060.2	7085.3	7097.7
45°	6378.6	6447.4	6503.7	6491.2
47.5°	5759.5	5809.5	5859.5	5822.0
50°	5165.5	5196.7	5215.5	5215.5
52.5°	4602.7	4602.7	4596.4	4602.7
55°	3958.5	3958.5	3933.5	3945.9
57.5°	3283.1	3295.6	3276.8	3245.6
60°	2657.7	2626.5	2613.9	2595.3
62.5°	2070.0	2070.0	2026.2	2082.4
65°	1551.0	1532.1	1513.3	1507.0
67.5°	1125.6	1119.5	1100.6	1094.4
70°	794.1	769.2	762.9	750.4
72.5°	531.6	531.6	519.0	519.0
75°	325.2	293.9	287.7	293.9
77.5°	225.1	218.8	218.8	212.7
80°	150.1	143.8	156.4	137.6
82.5°	93.8	100.1	93.8	100.1
85°	62.6	75.0	68.9	68.9
87.5°	37.5	37.5	37.5	37.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)