

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: P248469

Luminaire Tested: **LD8B200D010 ER8B200840 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248469  
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 ER8B200840 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 4000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21939.0 lumens  
Efficiency: N/A  
Efficacy: 98.2 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

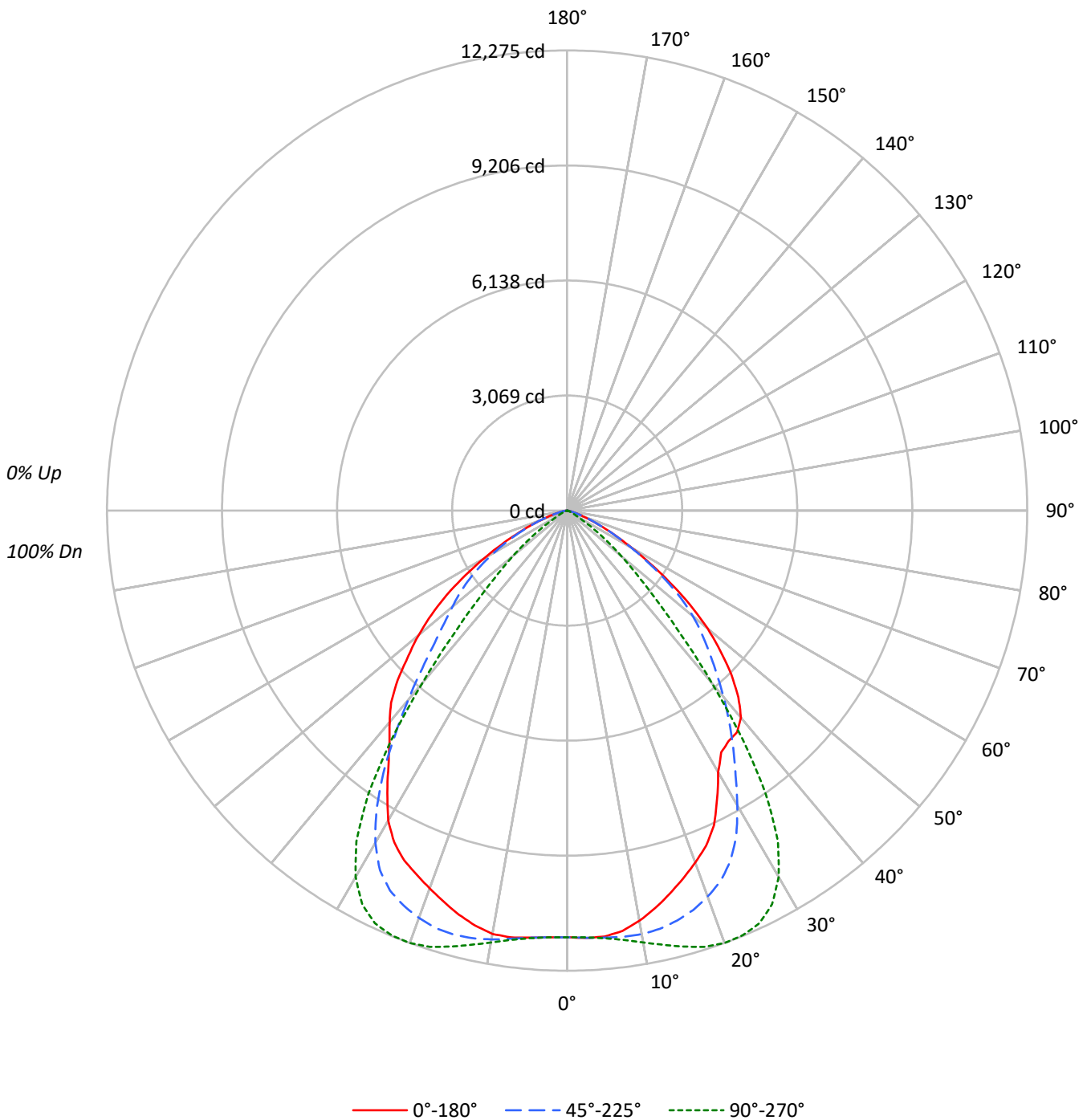
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	350954	350954	350954
5°	353044	354353	353979
10°	347858	366207	359020
15°	337687	384357	356200
20°	327887	402818	351872
25°	315298	413134	350241
30°	286940	401811	339855
35°	282666	348164	312688
40°	290352	241471	296426
45°	270294	145942	278723
50°	234453	90126	248365
55°	179918	47090	210777
60°	122574	18995	159085
65°	76248	9697	109754
70°	41392	5996	66997
75°	21589	2871	39591
80°	9660	3232	21452
85°	6439	2158	19247



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1094.5	5.0
10°-20°	3242.4	14.8
20°-30°	4946.5	22.5
30°-40°	5161.8	23.5
40°-50°	3877.2	17.7
50°-60°	2385.5	10.9
60°-70°	970.8	4.4
70°-80°	228.7	1.0
80°-90°	31.5	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°	9283.4	42.3
0°-40°	14445.2	65.8
0°-60°	20707.9	94.4
0°-90°	21939.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21939.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	11381	11381	11381	11381	11381	
5°	11405	11436	11448	11436	11436	###
15°	10578	11321	12040	11707	11158	2980
25°	9267	10306	12142	11182	10294	4213
35°	7509	7720	9249	8548	8306	4741
45°	6198	5364	3347	4996	6391	4729
55°	3347	3178	876	3178	3921	3008
65°	1045	1057	133	1420	1504	1090
75°	181	181	24	320	332	218
85°	18	18	6	42	54	26
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°	11381.2	11381.2	11381.2	11381.2	11381.2	11381.2	11381.2	11381.2	11381.2	11381.2	11381.2
2.5°	11411.5	11393.3	11411.5	11411.5	11417.5	11405.4	11411.5	11417.5	11405.4	11405.4	11405.4
5°	11405.4	11393.3	11405.4	11399.4	11411.5	11411.5	11423.6	11423.6	11435.6	11435.6	11453.8
7.5°	11308.7	11284.7	11308.7	11326.9	11338.9	11363.1	11393.3	11417.5	11441.6	11465.9	11496.0
10°	11109.4	11109.4	11127.5	11163.7	11200.0	11242.2	11296.6	11357.1	11417.5	11471.8	11526.2
12.5°	10861.8	10843.6	10879.8	10928.1	10982.5	11049.0	11133.6	11224.2	11320.9	11429.5	11514.2
15°	10577.8	10559.6	10601.9	10650.2	10716.8	10813.4	10916.2	11036.9	11175.9	11320.9	11459.8
17.5°	10287.8	10281.7	10324.0	10390.5	10444.9	10547.5	10680.5	10825.4	10982.5	11175.9	11357.1
20°	9991.9	9985.8	10028.1	10082.5	10154.9	10251.6	10384.5	10553.6	10740.9	10958.4	11169.8
22.5°	9683.7	9689.8	9726.0	9786.4	9846.9	9949.5	10088.4	10257.6	10463.0	10698.6	10934.2
25°	9266.9	9236.7	9285.0	9345.5	9448.1	9532.6	9665.7	9846.9	10058.2	10306.0	10583.9
27.5°	8662.7	8656.7	8699.1	8753.4	8844.0	8946.7	9091.7	9279.0	9502.5	9774.3	10046.1
30°	8058.6	8070.8	8088.9	8143.3	8203.6	8306.4	8451.4	8608.5	8819.9	9079.6	9369.6
32.5°	7647.9	7647.9	7672.1	7708.3	7750.6	7805.0	7907.7	8022.4	8185.6	8366.8	8578.2
35°	7508.9	7484.8	7508.9	7515.0	7521.0	7533.2	7551.2	7587.5	7641.8	7720.4	7798.9
37.5°	7448.6	7430.4	7430.4	7406.3	7376.0	7339.8	7291.5	7237.1	7176.8	7098.1	7037.8
40°	7213.0	7200.9	7188.8	7164.7	7098.1	7025.7	6947.1	6820.3	6681.3	6488.0	6294.8
42.5°	6759.9	6747.8	6741.8	6693.4	6633.0	6548.4	6457.8	6324.9	6149.8	5902.0	5624.1
45°	6198.1	6173.9	6155.8	6113.6	6071.1	5998.7	5914.2	5793.2	5618.1	5364.4	5032.2
47.5°	5545.7	5533.5	5527.5	5509.4	5467.2	5424.7	5370.5	5273.8	5116.7	4875.0	4530.8
50°	4887.2	4863.1	4875.0	4869.1	4850.9	4820.8	4784.4	4718.0	4597.1	4379.7	4065.6
52.5°	4132.0	4132.0	4126.1	4144.1	4150.2	4144.1	4150.2	4077.7	3975.0	3811.8	3546.0
55°	3346.6	3346.6	3364.8	3389.1	3413.2	3419.2	3413.2	3383.0	3310.4	3177.5	2941.9
57.5°	2609.6	2597.7	2633.9	2670.1	2694.3	2718.4	2700.3	2676.2	2633.9	2525.1	2343.9
60°	1987.5	1987.5	2011.6	2035.8	2059.9	2084.2	2078.1	2072.0	2035.8	1963.3	1818.4
62.5°	1461.9	1467.9	1467.9	1486.1	1510.2	1534.4	1552.5	1534.4	1516.3	1467.9	1371.3
65°	1045.0	1039.0	1045.0	1063.2	1081.4	1105.5	1117.6	1111.6	1093.4	1057.2	984.7
67.5°	700.8	694.7	718.8	724.9	737.0	761.2	755.2	761.2	755.2	724.9	664.6
70°	459.1	447.0	459.1	453.0	471.2	477.3	489.3	495.3	489.3	471.2	453.0
72.5°	283.9	277.9	283.9	290.0	296.1	302.0	314.1	314.1	308.0	296.1	271.8
75°	181.2	163.0	169.1	157.1	169.1	169.1	181.2	187.3	181.2	181.2	169.1
77.5°	108.8	108.8	108.8	108.8	108.8	108.8	108.8	114.8	120.8	108.8	102.7
80°	54.4	54.4	60.5	60.5	60.5	66.5	60.5	60.5	60.5	66.5	48.3
82.5°	42.3	36.2	36.2	36.2	42.3	36.2	36.2	36.2	36.2	36.2	36.2
85°	18.2	24.1	18.2	12.1	18.2	18.2	24.1	18.2	18.2	18.2	24.1
87.5°	6.1	6.1	0.0	0.0	0.0	6.1	0.0	6.1	6.1	12.1	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



TEST NUMBER: P248469

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	11381.2	11381.2	11381.2	11381.2	11381.2	11381.2	11381.2	11381.2	11381.2	11381.2	11381.2
2.5°	11411.5	11399.4	11399.4	11393.3	11405.4	11393.3	11399.4	11393.3	11393.3	11405.4	11393.3
5°	11453.8	11459.8	11447.7	11441.6	11459.8	11459.8	11459.8	11447.7	11447.7	11453.8	11447.7
7.5°	11514.2	11526.2	11532.2	11538.3	11550.4	11556.5	11556.5	11550.4	11544.4	11562.5	11538.3
10°	11580.6	11598.8	11635.0	11653.2	11683.3	11683.3	11695.4	11695.4	11683.3	11695.4	11689.4
12.5°	11556.5	11665.1	11725.6	11767.9	11810.1	11846.3	11858.5	11864.5	11858.5	11882.7	11858.5
15°	11598.8	11689.4	11786.0	11858.5	11937.0	11979.2	11991.4	12039.7	12051.8	12057.9	12021.6
17.5°	11532.2	11695.4	11798.0	11906.8	12021.6	12100.1	12172.6	12202.9	12208.9	12220.9	12172.6
20°	11381.2	11562.5	11719.5	11876.6	12009.5	12130.3	12190.8	12275.3	12251.2	12299.5	12233.0
22.5°	11175.9	11381.2	11580.6	11786.0	11925.0	12070.0	12196.8	12257.1	12287.4	12287.4	12214.8
25°	10849.6	11091.3	11308.7	11520.1	11731.6	11906.8	12051.8	12142.4	12160.6	12154.5	12070.0
27.5°	10342.2	10601.9	10855.7	11097.4	11357.1	11562.5	11731.6	11840.3	11870.6	11870.6	11780.0
30°	9641.4	9919.3	10167.0	10456.9	10722.8	10952.4	11188.0	11284.7	11338.9	11338.9	11236.3
32.5°	8807.8	9043.4	9272.9	9556.9	9846.9	10106.6	10330.1	10463.0	10529.5	10523.4	10432.8
35°	7901.7	8016.4	8191.7	8403.0	8662.7	8904.4	9121.9	9248.8	9363.5	9357.5	9272.9
37.5°	6995.4	6965.3	6983.4	7061.9	7225.0	7394.2	7563.3	7684.2	7780.7	7823.2	7805.0
40°	6107.5	5950.4	5799.3	5745.1	5757.0	5817.5	5908.1	5998.7	6107.5	6161.9	6186.0
42.5°	5310.0	5044.3	4778.4	4579.1	4464.3	4428.0	4470.3	4500.5	4567.0	4645.5	4724.1
45°	4669.7	4313.3	3962.9	3654.8	3461.5	3346.6	3322.5	3346.6	3383.0	3461.5	3564.2
47.5°	4144.1	3727.3	3334.7	2990.3	2706.3	2555.4	2513.1	2501.0	2537.2	2609.6	2748.6
50°	3678.9	3262.1	2827.2	2428.4	2132.5	1963.3	1902.9	1878.7	1921.0	1975.4	2102.2
52.5°	3171.5	2760.7	2313.7	1927.0	1619.0	1443.8	1377.3	1341.1	1365.2	1437.8	1564.6
55°	2621.8	2241.1	1836.4	1437.8	1141.7	978.7	900.0	875.9	900.0	978.7	1105.5
57.5°	2072.0	1751.9	1413.5	1039.0	773.2	610.2	531.5	507.4	574.0	604.1	737.0
60°	1619.0	1359.3	1069.3	761.2	531.5	404.7	326.2	308.0	338.3	392.6	501.4
62.5°	1214.3	1051.1	821.5	543.7	392.6	259.7	217.4	199.4	217.4	259.7	344.4
65°	882.0	755.2	574.0	398.7	265.8	193.3	145.0	132.9	151.1	181.2	253.8
67.5°	604.1	507.4	398.7	277.9	181.2	120.8	102.7	102.7	108.8	132.9	187.3
70°	392.6	332.3	253.8	181.2	120.8	90.6	78.5	66.5	78.5	96.7	126.8
72.5°	247.7	211.4	163.0	126.8	90.6	66.5	54.4	48.3	60.5	72.4	96.7
75°	151.1	114.8	84.6	66.5	48.3	48.3	48.3	24.1	30.2	48.3	60.5
77.5°	90.6	78.5	66.5	54.4	42.3	24.1	24.1	24.1	30.2	36.2	54.4
80°	48.3	42.3	30.2	30.2	24.1	18.2	24.1	18.2	12.1	30.2	36.2
82.5°	30.2	24.1	24.1	24.1	30.2	12.1	18.2	12.1	18.2	24.1	18.2
85°	18.2	18.2	18.2	12.1	30.2	12.1	12.1	6.1	6.1	12.1	12.1
87.5°	0.0	6.1	6.1	0.0	6.1	0.0	6.1	6.1	6.1	6.1	6.1
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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CATALOG NUMBER: LD8B200D010 ER8B200840 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	11381.2	11381.2	11381.2	11381.2	11381.2	11381.2	11381.2	11381.2	11381.2	11381.2	11381.2
2.5°	11399.4	11393.3	11399.4	11393.3	11393.3	11393.3	11399.4	11399.4	11393.3	11393.3	11405.4
5°	11447.7	11447.7	11447.7	11441.6	11435.6	11435.6	11447.7	11447.7	11429.5	11447.7	11447.7
7.5°	11550.4	11532.2	11550.4	11526.2	11514.2	11520.1	11526.2	11514.2	11502.1	11508.1	11508.1
10°	11683.3	11665.1	11665.1	11647.1	11628.9	11616.8	11604.8	11574.5	11544.4	11538.3	11514.2
12.5°	11840.3	11810.1	11792.1	11755.7	11725.6	11683.3	11647.1	11598.8	11538.3	11496.0	11453.8
15°	11997.4	11949.1	11906.8	11846.3	11780.0	11707.4	11628.9	11550.4	11453.8	11369.2	11296.6
17.5°	12124.2	12057.9	11979.2	11882.7	11786.0	11677.2	11562.5	11447.7	11308.7	11200.0	11115.4
20°	12166.5	12070.0	11967.3	11840.3	11713.5	11562.5	11417.5	11266.5	11109.4	10994.6	10898.0
22.5°	12112.3	11997.4	11870.6	11737.7	11568.5	11405.4	11236.3	11061.0	10922.1	10765.1	10674.5
25°	11961.2	11822.3	11683.3	11526.2	11363.1	11181.9	11000.7	10819.5	10650.2	10565.7	10451.0
27.5°	11653.2	11502.1	11351.0	11188.0	11000.7	10819.5	10632.2	10456.9	10312.0	10197.2	10130.8
30°	11109.4	10934.2	10759.0	10583.9	10420.7	10233.4	10058.2	9913.2	9768.2	9677.6	9611.3
32.5°	10275.7	10118.7	9943.5	9774.3	9623.4	9466.3	9321.3	9194.4	9091.7	9031.2	8982.9
35°	9152.2	8995.0	8862.1	8741.4	8614.4	8548.0	8457.4	8384.9	8342.6	8318.5	8312.4
37.5°	7738.5	7647.9	7605.6	7581.5	7557.3	7539.2	7551.2	7581.5	7605.6	7647.9	7696.2
40°	6228.3	6306.8	6331.0	6415.5	6494.0	6596.8	6711.6	6844.5	6953.1	7092.1	7188.8
42.5°	4850.9	4995.9	5165.0	5346.3	5539.6	5726.9	5956.4	6167.8	6361.1	6536.3	6687.4
45°	3727.3	3950.8	4204.5	4464.3	4724.1	4995.9	5273.8	5533.5	5763.1	5950.4	6107.5
47.5°	2905.7	3153.4	3479.7	3799.8	4113.9	4434.1	4742.1	5014.0	5207.3	5388.5	5527.5
50°	2301.6	2585.5	2941.9	3310.4	3654.8	3993.0	4319.3	4573.0	4766.4	4911.4	5014.0
52.5°	1782.0	2120.4	2482.8	2869.5	3238.0	3606.5	3908.5	4144.1	4301.2	4428.0	4506.5
55°	1329.0	1661.3	2048.0	2446.6	2821.2	3177.5	3461.5	3666.9	3805.9	3878.3	3920.6
57.5°	960.5	1262.6	1649.2	2048.0	2386.2	2724.5	2954.0	3141.3	3219.8	3262.1	3280.3
60°	700.8	978.7	1322.9	1667.3	1987.5	2259.3	2458.7	2585.5	2646.0	2670.1	2664.0
62.5°	513.5	755.2	1051.1	1341.1	1600.8	1824.3	1981.4	2066.0	2096.3	2108.3	2090.2
65°	392.6	579.9	833.7	1057.2	1256.6	1419.6	1534.4	1588.8	1606.9	1600.8	1588.8
67.5°	290.0	435.0	622.3	791.4	936.4	1063.2	1123.7	1172.0	1184.0	1165.9	1147.8
70°	205.5	320.2	453.0	567.9	676.5	749.1	815.5	821.5	821.5	815.5	803.5
72.5°	145.0	223.5	308.0	386.7	453.0	507.4	531.5	549.7	543.7	537.6	525.6
75°	96.7	138.9	223.5	241.7	302.0	320.2	344.4	344.4	350.3	332.3	332.3
77.5°	60.5	96.7	132.9	157.1	181.2	205.5	217.4	217.4	223.5	217.4	217.4
80°	36.2	60.5	72.4	108.8	108.8	126.8	132.9	138.9	126.8	145.0	126.8
82.5°	24.1	36.2	54.4	54.4	66.5	78.5	78.5	84.6	84.6	78.5	78.5
85°	18.2	24.1	30.2	36.2	36.2	42.3	36.2	36.2	42.3	48.3	42.3
87.5°	6.1	12.1	6.1	12.1	12.1	24.1	18.2	18.2	18.2	24.1	24.1
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: P248469

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	11381.2	11381.2	11381.2	11381.2
2.5°	11393.3	11399.4	11393.3	11393.3
5°	11447.7	11441.6	11447.7	11435.6
7.5°	11490.0	11490.0	11483.9	11483.9
10°	11490.0	11465.9	11465.9	11465.9
12.5°	11399.4	11369.2	11351.0	11338.9
15°	11242.2	11188.0	11163.7	11157.7
17.5°	11036.9	10988.6	10958.4	10940.3
20°	10801.3	10753.0	10716.8	10722.8
22.5°	10595.8	10541.6	10517.4	10505.2
25°	10390.5	10324.0	10306.0	10293.9
27.5°	10058.2	10022.0	10003.9	9985.8
30°	9550.8	9532.6	9502.5	9544.7
32.5°	8964.9	8934.6	8910.5	8928.7
35°	8318.5	8300.3	8318.5	8306.4
37.5°	7726.5	7744.5	7768.8	7780.7
40°	7261.3	7327.7	7351.9	7363.9
42.5°	6796.2	6874.6	6923.0	6953.1
45°	6222.2	6300.7	6355.1	6391.4
47.5°	5630.2	5696.7	5751.0	5745.1
50°	5092.6	5128.8	5152.9	5177.2
52.5°	4548.8	4548.8	4554.9	4554.9
55°	3932.7	3920.6	3914.5	3920.6
57.5°	3256.0	3244.1	3238.0	3219.8
60°	2639.9	2603.7	2579.5	2579.5
62.5°	2066.0	2023.7	2005.7	1999.6
65°	1552.5	1546.4	1510.2	1504.2
67.5°	1123.7	1099.4	1075.3	1081.4
70°	791.4	755.2	755.2	743.1
72.5°	513.5	495.3	489.3	489.3
75°	320.2	320.2	308.0	332.3
77.5°	211.4	211.4	205.5	211.4
80°	126.8	126.8	126.8	120.8
82.5°	78.5	84.6	78.5	78.5
85°	42.3	48.3	36.2	54.4
87.5°	24.1	30.2	24.1	30.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)