

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: P248540

Luminaire Tested: **LD8B175D010 ER8B175930 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248540  
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: LD8B175D010 ER8B175930 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15470.9 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

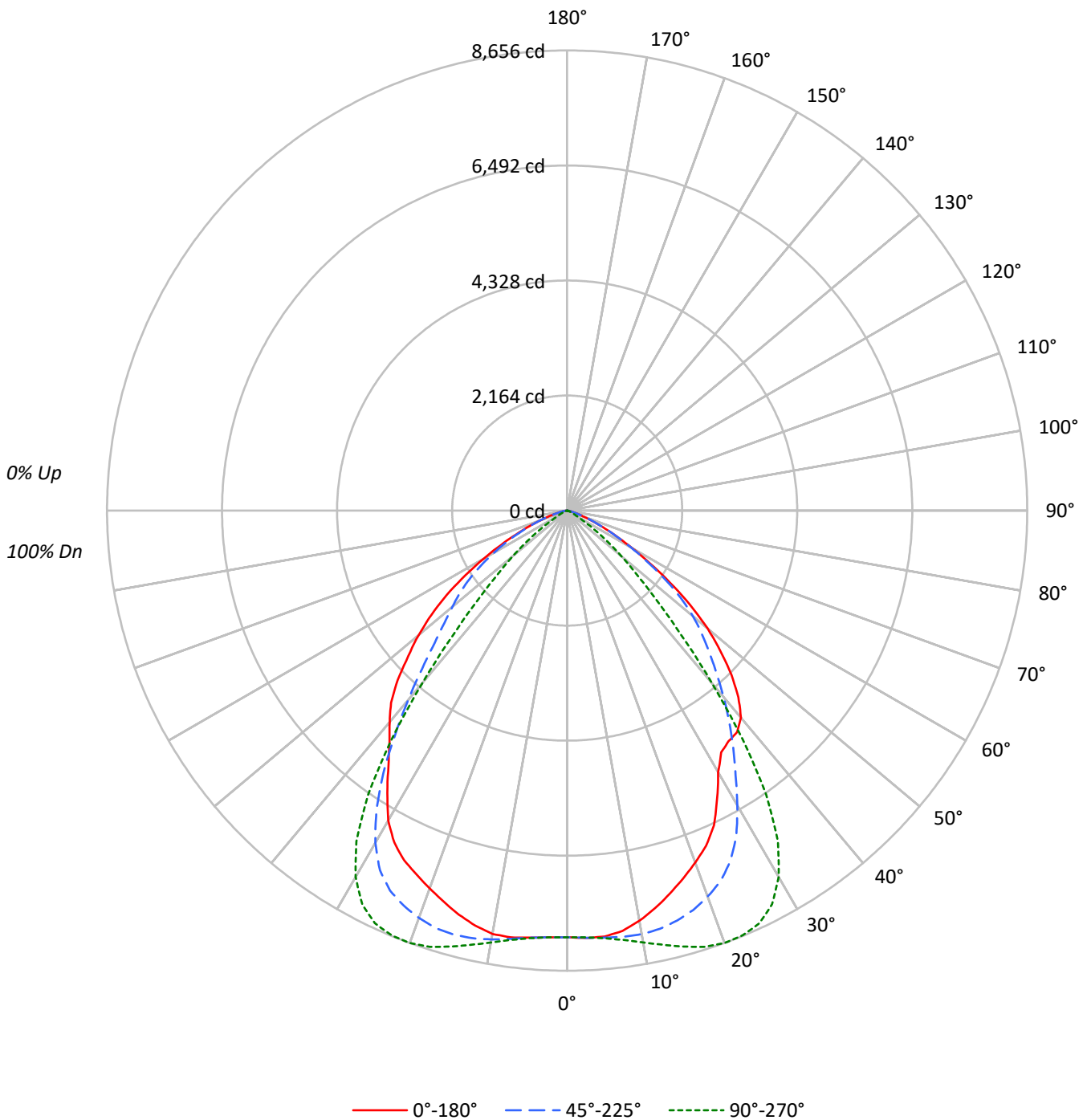
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	771.8	5.0
10°-20°	2286.4	14.8
20°-30°	3488.2	22.5
30°-40°	3640.0	23.5
40°-50°	2734.1	17.7
50°-60°	1682.2	10.9
60°-70°	684.6	4.4
70°-80°	161.3	1.0
80°-90°	22.2	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°	6546.5	42.3
0°-40°	10186.5	65.8
0°-60°	14602.8	94.4
0°-90°	15470.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15470.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8026	8026	8026	8026	8026	
5°	8043	8064	8073	8064	8064	761
15°	7459	7983	8490	8256	7868	2101
25°	6535	7268	8562	7885	7259	2971
35°	5295	5444	6522	6028	5857	3343
45°	4371	3783	2360	3523	4507	3335
55°	2360	2241	618	2241	2765	2121
65°	737	746	94	1001	1061	769
75°	128	128	17	226	234	154
85°	13	13	4	30	38	18
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°	8025.8	8025.8	8025.8	8025.8	8025.8	8025.8	8025.8	8025.8	8025.8	8025.8	8025.8
2.5°	8047.1	8034.3	8047.1	8047.1	8051.4	8042.8	8047.1	8051.4	8042.8	8042.8	8042.8
5°	8042.8	8034.3	8042.8	8038.6	8047.1	8047.1	8055.7	8055.7	8064.1	8064.1	8076.9
7.5°	7974.7	7957.8	7974.7	7987.5	7996.0	8013.0	8034.3	8051.4	8068.4	8085.4	8106.7
10°	7834.1	7834.1	7846.9	7872.4	7898.0	7927.8	7966.2	8008.8	8051.4	8089.7	8128.0
12.5°	7659.5	7646.7	7672.2	7706.3	7744.7	7791.5	7851.1	7915.0	7983.2	8059.9	8119.6
15°	7459.2	7446.5	7476.3	7510.4	7557.2	7625.4	7697.8	7783.0	7881.0	7983.2	8081.2
17.5°	7254.8	7250.5	7280.3	7327.2	7365.5	7437.8	7531.7	7633.9	7744.7	7881.0	8008.8
20°	7046.0	7041.8	7071.6	7109.9	7161.1	7229.2	7322.9	7442.2	7574.3	7727.6	7876.7
22.5°	6828.7	6833.1	6858.5	6901.2	6943.8	7016.1	7114.1	7233.5	7378.3	7544.4	7710.6
25°	6534.8	6513.6	6547.6	6590.2	6662.6	6722.2	6816.0	6943.8	7092.9	7267.6	7463.5
27.5°	6108.8	6104.5	6134.4	6172.7	6236.6	6309.0	6411.2	6543.4	6700.9	6892.6	7084.3
30°	5682.8	5691.3	5704.1	5742.5	5785.0	5857.4	5959.7	6070.6	6219.5	6402.7	6607.3
32.5°	5393.1	5393.1	5410.2	5435.7	5465.5	5503.9	5576.3	5657.2	5772.4	5900.2	6049.1
35°	5295.2	5278.1	5295.2	5299.4	5303.7	5312.2	5325.0	5350.5	5388.9	5444.2	5499.6
37.5°	5252.6	5239.8	5239.8	5222.7	5201.4	5175.9	5141.8	5103.5	5060.9	5005.5	4962.9
40°	5086.4	5077.9	5069.4	5052.3	5005.5	4954.4	4898.9	4809.5	4711.6	4575.1	4438.9
42.5°	4766.9	4758.4	4754.2	4720.1	4677.5	4617.8	4554.0	4460.2	4336.7	4161.9	3966.0
45°	4370.8	4353.6	4341.0	4311.1	4281.2	4230.2	4170.6	4085.3	3961.7	3782.9	3548.5
47.5°	3910.7	3902.1	3897.8	3885.2	3855.3	3825.4	3787.2	3719.0	3608.2	3437.8	3195.0
50°	3446.3	3429.4	3437.8	3433.6	3420.7	3399.5	3373.9	3327.0	3241.8	3088.5	2867.0
52.5°	2913.8	2913.8	2909.6	2922.3	2926.6	2922.3	2926.6	2875.5	2803.1	2688.0	2500.6
55°	2359.9	2359.9	2372.8	2389.9	2406.9	2411.2	2406.9	2385.6	2334.5	2240.8	2074.6
57.5°	1840.2	1831.8	1857.4	1882.9	1900.0	1917.0	1904.1	1887.2	1857.4	1780.6	1652.8
60°	1401.6	1401.6	1418.5	1435.7	1452.6	1469.7	1465.5	1461.1	1435.7	1384.4	1282.3
62.5°	1030.9	1035.1	1035.1	1048.0	1065.0	1082.1	1094.8	1082.1	1069.2	1035.1	967.0
65°	736.9	732.7	736.9	749.7	762.6	779.5	788.1	783.8	771.0	745.5	694.5
67.5°	494.1	489.9	506.9	511.2	519.7	536.8	532.6	536.8	532.6	511.2	468.7
70°	323.7	315.2	323.7	319.5	332.3	336.5	345.0	349.3	345.0	332.3	319.5
72.5°	200.2	196.0	200.2	204.5	208.7	213.0	221.5	221.5	217.2	208.7	191.7
75°	127.8	115.0	119.3	110.8	119.3	119.3	127.8	132.1	127.8	127.8	119.3
77.5°	76.7	76.7	76.7	76.7	76.7	76.7	76.7	80.9	85.2	76.7	72.4
80°	38.3	38.3	42.6	42.6	42.6	46.9	42.6	42.6	42.6	46.9	34.1
82.5°	29.8	25.6	25.6	25.6	29.8	25.6	25.6	25.6	25.6	25.6	25.6
85°	12.8	17.0	12.8	8.5	12.8	12.8	17.0	12.8	12.8	12.8	17.0
87.5°	4.3	4.3	0.0	0.0	0.0	4.3	0.0	4.3	4.3	8.5	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°	8025.8	8025.8	8025.8	8025.8	8025.8	8025.8	8025.8	8025.8	8025.8	8025.8	8025.8
2.5°	8047.1	8038.6	8038.6	8034.3	8042.8	8034.3	8038.6	8034.3	8034.3	8042.8	8034.3
5°	8076.9	8081.2	8072.7	8068.4	8081.2	8081.2	8081.2	8072.7	8072.7	8076.9	8072.7
7.5°	8119.6	8128.0	8132.3	8136.6	8145.1	8149.3	8149.3	8145.1	8140.8	8153.7	8136.6
10°	8166.4	8179.2	8204.7	8217.6	8238.8	8238.8	8247.4	8247.4	8238.8	8247.4	8243.0
12.5°	8149.3	8226.0	8268.6	8298.4	8328.2	8353.8	8362.3	8366.6	8362.3	8379.5	8362.3
15°	8179.2	8243.0	8311.3	8362.3	8417.7	8447.5	8456.0	8490.1	8498.6	8502.9	8477.5
17.5°	8132.3	8247.4	8319.7	8396.4	8477.5	8532.7	8583.8	8605.2	8609.5	8617.9	8583.8
20°	8025.8	8153.7	8264.3	8375.2	8468.8	8554.0	8596.6	8656.2	8639.3	8673.4	8626.4
22.5°	7881.0	8025.8	8166.4	8311.3	8409.3	8511.5	8601.0	8643.5	8664.9	8664.9	8613.7
25°	7650.9	7821.3	7974.7	8123.8	8272.9	8396.4	8498.6	8562.5	8575.4	8571.2	8511.5
27.5°	7293.1	7476.3	7655.2	7825.6	8008.8	8153.7	8272.9	8349.5	8370.8	8370.8	8306.9
30°	6799.0	6994.9	7169.6	7373.9	7561.5	7723.4	7889.5	7957.8	7996.0	7996.0	7923.6
32.5°	6211.0	6377.1	6539.0	6739.3	6943.8	7127.0	7284.6	7378.3	7425.2	7420.9	7357.0
35°	5572.0	5653.0	5776.6	5925.6	6108.8	6279.2	6432.5	6522.1	6602.9	6598.7	6539.0
37.5°	4933.1	4911.8	4924.6	4979.9	5094.9	5214.2	5333.5	5418.8	5486.8	5516.8	5503.9
40°	4306.9	4196.1	4089.5	4051.3	4059.7	4102.4	4166.3	4230.2	4306.9	4345.2	4362.3
42.5°	3744.5	3557.2	3369.6	3229.0	3148.1	3122.5	3152.4	3173.7	3220.5	3275.9	3331.4
45°	3292.9	3041.7	2794.5	2577.3	2441.0	2359.9	2343.0	2359.9	2385.6	2441.0	2513.4
47.5°	2922.3	2628.4	2351.5	2108.7	1908.4	1802.0	1772.2	1763.7	1789.2	1840.2	1938.2
50°	2594.3	2300.4	1993.7	1712.4	1503.8	1384.4	1341.9	1324.8	1354.6	1393.0	1482.4
52.5°	2236.5	1946.8	1631.6	1358.9	1141.7	1018.2	971.2	945.7	962.7	1013.9	1103.3
55°	1848.9	1580.4	1295.0	1013.9	805.1	690.1	634.7	617.7	634.7	690.1	779.5
57.5°	1461.1	1235.3	996.8	732.7	545.3	430.2	374.9	357.8	404.8	426.0	519.7
60°	1141.7	958.6	754.0	536.8	374.9	285.4	230.0	217.2	238.5	276.9	353.6
62.5°	856.3	741.2	579.3	383.4	276.9	183.2	153.4	140.6	153.4	183.2	242.9
65°	621.9	532.6	404.8	281.1	187.4	136.3	102.2	93.7	106.5	127.8	179.0
67.5°	426.0	357.8	281.1	196.0	127.8	85.2	72.4	72.4	76.7	93.7	132.1
70°	276.9	234.3	179.0	127.8	85.2	63.9	55.4	46.9	55.4	68.2	89.5
72.5°	174.7	149.1	115.0	89.5	63.9	46.9	38.3	34.1	42.6	51.1	68.2
75°	106.5	80.9	59.6	46.9	34.1	34.1	34.1	17.0	21.3	34.1	42.6
77.5°	63.9	55.4	46.9	38.3	29.8	17.0	17.0	17.0	21.3	25.6	38.3
80°	34.1	29.8	21.3	21.3	17.0	12.8	17.0	12.8	8.5	21.3	25.6
82.5°	21.3	17.0	17.0	17.0	21.3	8.5	12.8	8.5	12.8	17.0	12.8
85°	12.8	12.8	12.8	8.5	21.3	8.5	8.5	4.3	4.3	8.5	8.5
87.5°	0.0	4.3	4.3	0.0	4.3	0.0	4.3	4.3	4.3	4.3	4.3
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°	8025.8	8025.8	8025.8	8025.8	8025.8	8025.8	8025.8	8025.8	8025.8	8025.8	8025.8
2.5°	8038.6	8034.3	8038.6	8034.3	8034.3	8034.3	8038.6	8038.6	8034.3	8034.3	8042.8
5°	8072.7	8072.7	8072.7	8068.4	8064.1	8064.1	8072.7	8072.7	8059.9	8072.7	8072.7
7.5°	8145.1	8132.3	8145.1	8128.0	8119.6	8123.8	8128.0	8119.6	8111.0	8115.3	8115.3
10°	8238.8	8226.0	8226.0	8213.2	8200.5	8191.9	8183.5	8162.1	8140.8	8136.6	8119.6
12.5°	8349.5	8328.2	8315.6	8289.9	8268.6	8238.8	8213.2	8179.2	8136.6	8106.7	8076.9
15°	8460.3	8426.2	8396.4	8353.8	8306.9	8255.8	8200.5	8145.1	8076.9	8017.3	7966.2
17.5°	8549.8	8502.9	8447.5	8379.5	8311.3	8234.5	8153.7	8072.7	7974.7	7898.0	7838.4
20°	8579.6	8511.5	8439.1	8349.5	8260.1	8153.7	8051.4	7944.9	7834.1	7753.2	7685.0
22.5°	8541.3	8460.3	8370.8	8277.1	8157.9	8042.8	7923.6	7800.0	7702.1	7591.3	7527.4
25°	8434.7	8336.8	8238.8	8128.0	8013.0	7885.2	7757.4	7629.6	7510.4	7450.7	7369.8
27.5°	8217.6	8111.0	8004.5	7889.5	7757.4	7629.6	7497.6	7373.9	7271.8	7190.9	7144.0
30°	7834.1	7710.6	7587.0	7463.5	7348.5	7216.4	7092.9	6990.7	6888.3	6824.4	6777.7
32.5°	7246.1	7135.5	7012.0	6892.6	6786.2	6675.4	6573.1	6483.8	6411.2	6368.6	6334.5
35°	6453.9	6343.1	6249.4	6164.3	6074.7	6028.0	5964.1	5912.8	5883.0	5866.0	5861.7
37.5°	5457.0	5393.1	5363.3	5346.3	5329.2	5316.5	5325.0	5346.3	5363.3	5393.1	5427.2
40°	4392.1	4447.3	4464.5	4524.1	4579.5	4651.9	4732.9	4826.6	4903.3	5001.2	5069.4
42.5°	3420.7	3523.1	3642.2	3770.0	3906.5	4038.5	4200.4	4349.4	4485.8	4609.2	4715.8
45°	2628.4	2786.0	2964.9	3148.1	3331.4	3523.1	3719.0	3902.1	4064.0	4196.1	4306.9
47.5°	2049.1	2223.7	2453.8	2679.5	2901.0	3126.8	3344.1	3535.7	3672.1	3799.9	3897.8
50°	1623.1	1823.3	2074.6	2334.5	2577.3	2815.8	3045.9	3224.8	3361.2	3463.4	3535.7
52.5°	1256.6	1495.3	1750.8	2023.5	2283.4	2543.2	2756.2	2922.3	3033.1	3122.5	3177.9
55°	937.2	1171.4	1444.2	1725.3	1989.4	2240.8	2441.0	2585.8	2683.8	2734.9	2764.7
57.5°	677.3	890.4	1162.9	1444.2	1682.6	1921.3	2083.2	2215.2	2270.6	2300.4	2313.2
60°	494.1	690.1	932.9	1175.8	1401.6	1593.3	1733.9	1823.3	1865.9	1882.9	1878.6
62.5°	362.1	532.6	741.2	945.7	1128.8	1286.5	1397.2	1456.9	1478.3	1486.7	1474.0
65°	276.9	408.9	587.9	745.5	886.2	1001.1	1082.1	1120.4	1133.1	1128.8	1120.4
67.5°	204.5	306.7	438.9	558.0	660.4	749.7	792.4	826.5	834.9	822.3	809.4
70°	144.8	225.8	319.5	400.4	477.1	528.2	575.1	579.3	579.3	575.1	566.7
72.5°	102.2	157.6	217.2	272.6	319.5	357.8	374.9	387.6	383.4	379.1	370.6
75°	68.2	98.0	157.6	170.4	213.0	225.8	242.9	242.9	247.1	234.3	234.3
77.5°	42.6	68.2	93.7	110.8	127.8	144.8	153.4	153.4	157.6	153.4	153.4
80°	25.6	42.6	51.1	76.7	76.7	89.5	93.7	98.0	89.5	102.2	89.5
82.5°	17.0	25.6	38.3	38.3	46.9	55.4	55.4	59.6	59.6	55.4	55.4
85°	12.8	17.0	21.3	25.6	25.6	29.8	25.6	25.6	29.8	34.1	29.8
87.5°	4.3	8.5	4.3	8.5	8.5	17.0	12.8	12.8	12.8	17.0	17.0
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: P248540

CATALOG NUMBER: LD8B175D010 ER8B175930 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	8025.8	8025.8	8025.8	8025.8
2.5°	8034.3	8038.6	8034.3	8034.3
5°	8072.7	8068.4	8072.7	8064.1
7.5°	8102.5	8102.5	8098.2	8098.2
10°	8102.5	8085.4	8085.4	8085.4
12.5°	8038.6	8017.3	8004.5	7996.0
15°	7927.8	7889.5	7872.4	7868.2
17.5°	7783.0	7748.9	7727.6	7714.8
20°	7616.9	7582.8	7557.2	7561.5
22.5°	7472.0	7433.7	7416.6	7408.1
25°	7327.2	7280.3	7267.6	7259.0
27.5°	7092.9	7067.3	7054.5	7041.8
30°	6735.1	6722.2	6700.9	6730.7
32.5°	6321.9	6300.5	6283.4	6296.3
35°	5866.0	5853.2	5866.0	5857.4
37.5°	5448.5	5461.3	5478.3	5486.8
40°	5120.5	5167.4	5184.4	5192.9
42.5°	4792.5	4847.9	4882.0	4903.3
45°	4387.8	4443.1	4481.4	4507.1
47.5°	3970.4	4017.2	4055.4	4051.3
50°	3591.2	3616.8	3633.7	3650.9
52.5°	3207.7	3207.7	3212.0	3212.0
55°	2773.2	2764.7	2760.5	2764.7
57.5°	2296.0	2287.6	2283.4	2270.6
60°	1861.6	1836.1	1819.0	1819.0
62.5°	1456.9	1427.0	1414.4	1410.1
65°	1094.8	1090.5	1065.0	1060.7
67.5°	792.4	775.3	758.4	762.6
70°	558.0	532.6	532.6	524.0
72.5°	362.1	349.3	345.0	345.0
75°	225.8	225.8	217.2	234.3
77.5°	149.1	149.1	144.8	149.1
80°	89.5	89.5	89.5	85.2
82.5°	55.4	59.6	55.4	55.4
85°	29.8	34.1	25.6	38.3
87.5°	17.0	21.3	17.0	21.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)