

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: P249260

Luminaire Tested: **LD8B175D010 ER8B175935 8LBDW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249260  
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: LD8B175D010 ER8B175935 8LBDW0WMH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 3500 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15771.0 lumens  
Efficiency: N/A  
Efficacy: 89.0 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

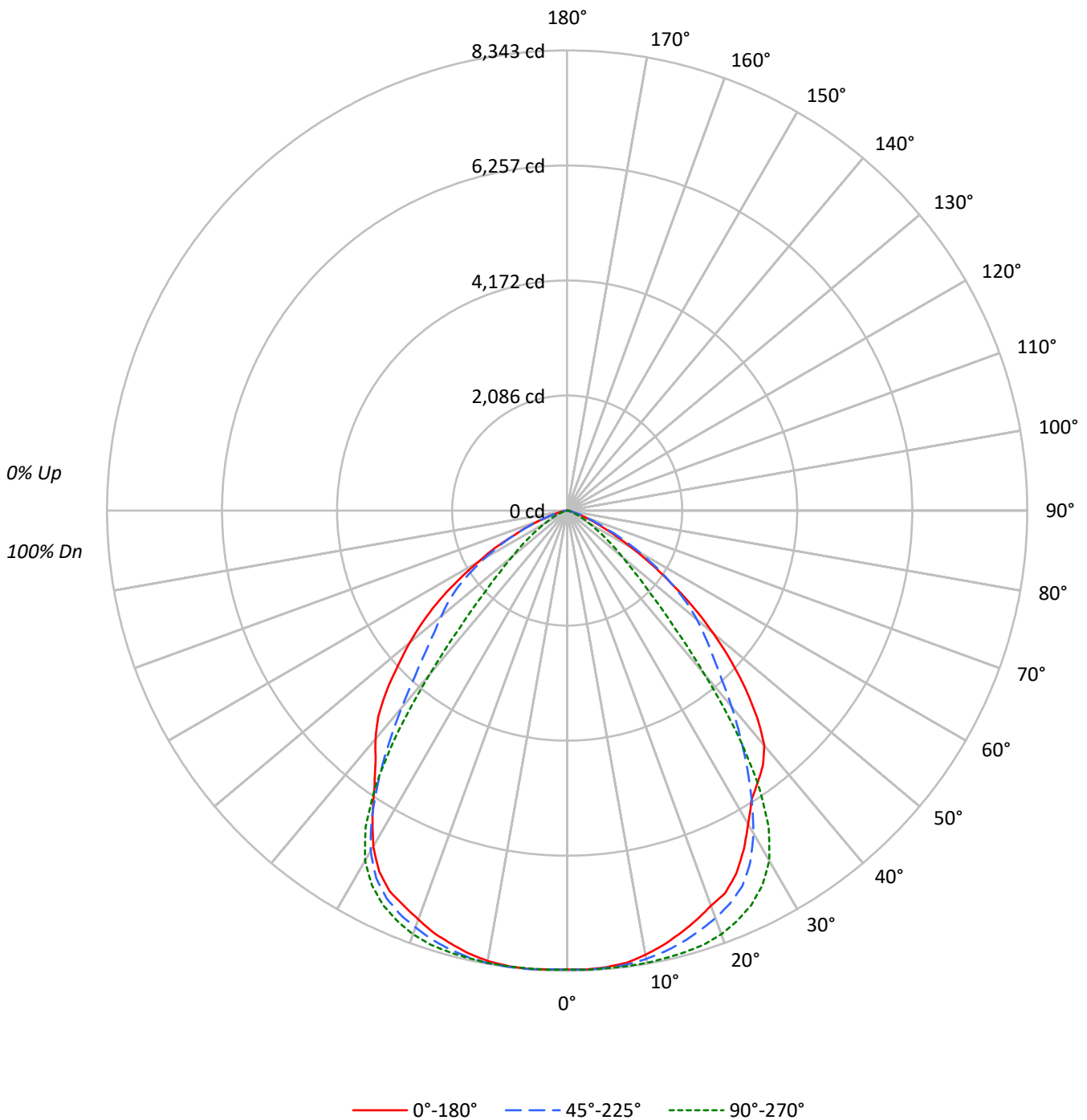
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	256592	256592	256592
5°	257154	257851	258126
10°	256073	260691	259570
15°	253238	264504	259514
20°	250197	268223	258844
25°	246947	268532	259107
30°	233626	260979	250326
35°	226652	226818	229174
40°	223844	156061	217552
45°	199455	93690	202181
50°	165847	62355	178703
55°	124383	42982	151516
60°	84294	28647	114316
65°	50842	18577	78539
70°	28193	10071	48325
75°	12772	4253	25008
80°	11099	4759	17456
85°	12631	6298	17407



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CATALOG NUMBER: LD8B175D010 ER8B175935 8LBDW0WMH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	794.1	5.0
10°-20°	2306.3	14.6
20°-30°	3500.5	22.2
30°-40°	3676.5	23.3
40°-50°	2756.4	17.5
50°-60°	1768.6	11.2
60°-70°	756.6	4.8
70°-80°	178.7	1.1
80°-90°	33.3	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°	6600.9	41.9
0°-40°	10277.4	65.2
0°-60°	14802.4	93.9
0°-90°	15771.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15771.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8321	8321	8321	8321	8321	
5°	8308	8321	8330	8343	8339	789
15°	7932	8098	8285	8232	8129	2237
25°	7258	7513	7892	7749	7615	3316
35°	6021	5686	6025	5954	6088	3779
45°	4574	3738	2148	3631	4636	3503
55°	2314	2314	800	2412	2818	2099
65°	697	822	255	1059	1076	744
75°	107	125	36	214	210	156
85°	36	22	18	36	49	38
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°	8321.1	8321.1	8321.1	8321.1	8321.1	8321.1	8321.1	8321.1	8321.1	8321.1	8321.1
2.5°	8325.6	8334.5	8330.1	8330.1	8325.6	8330.1	8330.1	8339.0	8339.0	8330.1	8325.6
5°	8307.6	8316.6	8316.6	8307.6	8307.6	8330.1	8316.6	8325.6	8325.6	8321.1	8321.1
7.5°	8267.5	8267.5	8285.4	8272.0	8272.0	8285.4	8280.9	8289.8	8298.8	8303.3	8303.3
10°	8178.1	8187.1	8191.6	8191.6	8196.1	8209.4	8218.4	8236.3	8245.1	8254.1	8258.6
12.5°	8066.6	8079.9	8084.4	8079.9	8093.3	8111.1	8133.5	8155.8	8169.3	8187.1	8200.5
15°	7932.5	7932.5	7941.4	7954.9	7963.8	7990.6	8012.9	8039.7	8075.4	8097.8	8120.1
17.5°	7785.1	7794.1	7807.4	7807.4	7825.4	7869.9	7883.4	7923.6	7963.8	7986.1	8030.8
20°	7624.4	7633.2	7646.7	7655.6	7677.9	7713.7	7740.4	7776.2	7820.9	7861.1	7905.7
22.5°	7499.2	7481.4	7490.3	7499.2	7521.6	7552.9	7584.2	7628.8	7673.4	7713.7	7758.4
25°	7258.0	7262.5	7276.0	7284.8	7311.7	7338.5	7374.2	7427.8	7468.0	7512.7	7561.8
27.5°	6932.0	6936.5	6958.8	6958.8	6981.1	7025.8	7048.1	7092.8	7146.5	7191.1	7249.2
30°	6561.3	6570.2	6570.2	6588.1	6601.4	6623.8	6646.1	6690.8	6717.6	6757.8	6838.3
32.5°	6221.9	6230.7	6226.3	6221.9	6208.4	6204.0	6199.5	6208.4	6217.4	6230.7	6262.0
35°	6020.9	5998.5	5980.7	5949.4	5913.7	5869.0	5828.8	5775.2	5726.0	5685.8	5641.2
37.5°	5828.8	5824.3	5797.5	5752.8	5681.3	5601.0	5507.2	5391.1	5274.9	5149.9	5029.3
40°	5560.8	5547.4	5525.1	5462.5	5382.1	5283.9	5158.8	5015.9	4828.2	4636.2	4439.7
42.5°	5105.2	5109.7	5082.9	5033.7	4957.9	4864.0	4734.5	4578.2	4377.2	4149.3	3894.8
45°	4573.7	4573.7	4564.7	4524.5	4471.0	4395.0	4296.8	4167.3	3970.8	3738.4	3466.0
47.5°	4019.8	4024.3	4010.9	4002.0	3979.6	3930.5	3859.1	3760.8	3622.4	3399.0	3126.5
50°	3457.1	3457.1	3479.4	3474.9	3474.9	3457.1	3425.9	3367.7	3247.2	3068.5	2813.9
52.5°	2894.3	2903.2	2916.7	2934.5	2956.8	2992.5	2956.8	2930.0	2854.1	2715.6	2496.8
55°	2313.6	2322.6	2344.9	2376.1	2403.0	2438.8	2447.6	2447.6	2407.4	2313.6	2148.4
57.5°	1817.9	1804.5	1822.4	1849.2	1884.9	1920.6	1947.4	1978.7	1974.2	1911.7	1777.7
60°	1366.8	1371.2	1384.6	1411.5	1438.2	1469.5	1505.2	1532.0	1545.4	1514.2	1429.3
62.5°	996.1	996.1	1013.9	1040.6	1054.1	1098.8	1121.1	1134.5	1147.9	1143.4	1089.8
65°	696.8	705.7	714.6	728.1	741.4	768.2	781.6	808.4	817.4	821.8	781.6
67.5°	491.4	477.9	486.9	495.7	509.2	527.1	553.9	553.9	567.2	567.2	540.4
70°	312.7	312.7	317.2	330.5	339.4	343.9	352.9	361.7	375.2	370.7	370.7
72.5°	209.9	205.5	209.9	214.4	218.9	232.2	232.2	236.7	245.7	250.2	232.2
75°	107.2	111.7	120.5	116.2	129.5	120.5	125.0	138.5	134.0	125.0	125.0
77.5°	89.3	89.3	89.3	84.9	93.8	93.8	89.3	98.3	93.8	93.8	89.3
80°	62.5	67.0	62.5	58.0	62.5	58.0	58.0	58.0	58.0	58.0	53.6
82.5°	49.2	40.2	44.7	40.2	44.7	44.7	40.2	35.7	35.7	40.2	35.7
85°	35.7	26.8	31.3	31.3	26.8	26.8	26.8	26.8	26.8	22.3	22.3
87.5°	22.3	13.4	13.4	13.4	17.8	17.8	17.8	13.4	17.8	17.8	9.0
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: P249260

CATALOG NUMBER: LD8B175D010 ER8B175935 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8321.1	8321.1	8321.1	8321.1	8321.1	8321.1	8321.1	8321.1	8321.1	8321.1	8321.1
2.5°	8334.5	8330.1	8339.0	8334.5	8334.5	8330.1	8334.5	8330.1	8339.0	8321.1	8325.6
5°	8334.5	8325.6	8330.1	8334.5	8339.0	8330.1	8330.1	8330.1	8339.0	8330.1	8334.5
7.5°	8316.6	8312.1	8325.6	8334.5	8330.1	8325.6	8334.5	8330.1	8339.0	8334.5	8343.4
10°	8280.9	8285.4	8294.3	8307.6	8312.1	8316.6	8325.6	8325.6	8339.0	8321.1	8330.1
12.5°	8227.3	8245.1	8267.5	8276.4	8294.3	8294.3	8303.3	8307.6	8316.6	8312.1	8325.6
15°	8160.3	8182.6	8209.4	8231.8	8254.1	8267.5	8280.9	8285.4	8298.8	8285.4	8289.8
17.5°	8079.9	8106.7	8146.9	8173.7	8209.4	8222.8	8240.7	8249.6	8263.1	8254.1	8258.6
20°	7968.2	7999.6	8044.2	8084.4	8106.7	8137.9	8160.3	8173.7	8182.6	8173.7	8178.1
22.5°	7811.9	7856.6	7914.6	7945.9	7990.6	8017.4	8021.9	8053.1	8075.4	8053.1	8062.1
25°	7628.8	7673.4	7718.1	7785.1	7825.4	7856.6	7887.9	7892.4	7914.6	7910.2	7905.7
27.5°	7325.0	7383.2	7459.0	7512.7	7566.2	7615.4	7651.2	7660.0	7682.4	7673.4	7677.9
30°	6909.6	6972.3	7043.7	7128.5	7204.5	7253.6	7298.3	7329.5	7351.8	7338.5	7334.0
32.5°	6320.1	6382.6	6458.6	6543.4	6632.8	6704.2	6757.8	6798.0	6824.8	6815.9	6793.6
35°	5645.7	5663.5	5712.7	5779.7	5855.6	5931.5	5980.7	6025.3	6056.5	6065.5	6065.5
37.5°	4953.4	4895.3	4859.6	4859.6	4904.2	4935.5	4980.2	5006.9	5056.1	5073.9	5087.4
40°	4283.3	4149.3	4024.3	3930.5	3868.0	3863.6	3863.6	3876.9	3921.6	3979.6	4033.3
42.5°	3684.9	3470.4	3278.4	3104.2	2979.2	2907.7	2876.5	2880.9	2916.7	2970.2	3059.5
45°	3207.0	2939.0	2697.8	2487.8	2318.1	2206.4	2152.9	2148.4	2175.2	2237.7	2336.0
47.5°	2836.2	2550.3	2277.9	2036.7	1853.6	1733.0	1670.5	1652.7	1670.5	1728.5	1844.7
50°	2528.1	2233.3	1951.9	1701.7	1505.2	1380.2	1322.1	1299.8	1322.1	1371.2	1487.3
52.5°	2242.2	1938.4	1674.9	1433.8	1223.8	1116.6	1054.1	1040.6	1054.1	1112.1	1206.0
55°	1911.7	1652.7	1393.5	1152.3	969.3	862.1	812.9	799.5	812.9	866.5	964.8
57.5°	1585.7	1362.3	1134.5	915.6	759.3	665.5	620.9	602.9	634.2	669.9	786.1
60°	1281.8	1103.3	911.1	719.1	589.6	504.7	469.0	464.5	473.4	518.1	598.5
62.5°	1005.0	857.6	705.7	549.4	442.2	406.4	361.7	357.4	366.2	393.0	455.6
65°	723.6	629.8	513.7	402.0	317.2	268.0	250.2	254.6	263.5	281.4	339.4
67.5°	504.7	437.7	357.4	281.4	218.9	196.5	178.7	174.2	178.7	209.9	241.2
70°	339.4	299.2	241.2	214.4	151.9	120.5	125.0	111.7	129.5	129.5	156.3
72.5°	223.3	196.5	160.8	125.0	107.2	84.9	84.9	80.4	89.3	93.8	116.2
75°	116.2	89.3	89.3	62.5	44.7	22.3	40.2	35.7	31.3	35.7	44.7
77.5°	80.4	67.0	62.5	49.2	44.7	35.7	35.7	35.7	35.7	40.2	44.7
80°	49.2	49.2	35.7	31.3	26.8	22.3	26.8	26.8	26.8	26.8	31.3
82.5°	31.3	26.8	26.8	22.3	22.3	17.8	17.8	17.8	17.8	17.8	26.8
85°	26.8	17.8	17.8	13.4	17.8	31.3	13.4	17.8	17.8	17.8	13.4
87.5°	9.0	13.4	13.4	13.4	9.0	4.5	9.0	13.4	13.4	22.3	17.8
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: P249260

CATALOG NUMBER: LD8B175D010 ER8B175935 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8321.1	8321.1	8321.1	8321.1	8321.1	8321.1	8321.1	8321.1	8321.1	8321.1	8321.1
2.5°	8334.5	8339.0	8339.0	8334.5	8334.5	8325.6	8343.4	8330.1	8334.5	8352.3	8339.0
5°	8343.4	8347.9	8347.9	8343.4	8343.4	8343.4	8347.9	8347.9	8343.4	8339.0	8347.9
7.5°	8361.3	8356.8	8356.8	8347.9	8347.9	8339.0	8347.9	8334.5	8343.4	8334.5	8347.9
10°	8339.0	8343.4	8339.0	8334.5	8334.5	8330.1	8330.1	8316.6	8321.1	8307.6	8316.6
12.5°	8325.6	8321.1	8321.1	8312.1	8303.3	8294.3	8289.8	8276.4	8276.4	8245.1	8258.6
15°	8289.8	8294.3	8280.9	8263.1	8254.1	8231.8	8222.8	8204.9	8187.1	8164.8	8169.3
17.5°	8258.6	8245.1	8227.3	8209.4	8173.7	8155.8	8137.9	8111.1	8102.2	8075.4	8066.6
20°	8164.8	8155.8	8133.5	8102.2	8079.9	8039.7	8021.9	7995.1	7972.7	7945.9	7932.5
22.5°	8044.2	8035.2	8008.4	7977.2	7941.4	7923.6	7905.7	7856.6	7834.2	7807.4	7803.0
25°	7892.4	7878.9	7852.1	7816.4	7798.5	7749.4	7731.5	7695.7	7686.9	7660.0	7655.6
27.5°	7660.0	7642.2	7610.9	7566.2	7535.0	7503.7	7485.9	7459.0	7450.2	7423.3	7418.9
30°	7311.7	7289.3	7226.8	7209.0	7155.3	7124.1	7124.1	7088.3	7092.8	7075.0	7075.0
32.5°	6762.3	6726.6	6677.4	6641.7	6605.9	6588.1	6588.1	6574.7	6583.6	6583.6	6592.6
35°	6034.2	5985.2	5958.3	5936.0	5936.0	5953.8	6007.5	6020.9	6047.7	6070.0	6087.9
37.5°	5100.7	5096.3	5127.6	5154.4	5221.3	5297.3	5391.1	5471.5	5547.4	5601.0	5654.6
40°	4091.3	4203.0	4292.3	4417.4	4520.1	4667.5	4837.2	4975.7	5105.2	5199.1	5297.3
42.5°	3193.5	3336.5	3524.1	3707.2	3890.3	4091.3	4314.7	4506.7	4676.4	4805.9	4908.7
45°	2487.8	2684.3	2912.2	3144.4	3381.2	3631.3	3863.6	4060.1	4238.7	4372.7	4475.5
47.5°	2005.4	2219.9	2478.9	2733.5	3001.5	3265.0	3524.1	3693.8	3841.2	3948.4	4042.2
50°	1657.0	1884.9	2157.3	2447.6	2715.6	2979.2	3202.5	3367.7	3488.4	3582.1	3640.2
52.5°	1384.6	1625.8	1916.1	2206.4	2474.4	2715.6	2916.7	3041.7	3140.0	3207.0	3260.5
55°	1143.4	1375.7	1648.2	1920.6	2184.1	2411.9	2577.1	2671.0	2746.9	2787.1	2818.3
57.5°	933.5	1147.9	1398.0	1648.2	1875.9	2063.6	2193.1	2286.9	2322.6	2353.8	2349.4
60°	732.6	933.5	1161.3	1375.7	1572.2	1724.0	1817.9	1871.5	1898.2	1911.7	1902.7
62.5°	576.2	759.3	933.5	1121.1	1264.0	1393.5	1482.9	1482.9	1496.3	1500.7	1514.2
65°	428.7	567.2	719.1	857.6	973.7	1058.6	1107.7	1121.1	1139.0	1134.5	1125.6
67.5°	317.2	419.9	531.5	634.2	714.6	768.2	803.9	835.3	830.8	821.8	817.4
70°	218.9	285.9	384.1	446.7	504.7	558.4	567.2	571.7	576.2	580.6	571.7
72.5°	151.9	201.0	254.6	308.2	343.9	366.2	388.6	393.0	393.0	393.0	388.6
75°	76.0	102.7	151.9	174.2	205.5	214.4	232.2	232.2	245.7	227.8	223.3
77.5°	67.0	80.4	107.2	125.0	138.5	151.9	156.3	169.7	165.2	156.3	160.8
80°	40.2	49.2	67.0	76.0	93.8	98.3	102.7	107.2	102.7	107.2	107.2
82.5°	31.3	35.7	44.7	44.7	58.0	58.0	62.5	62.5	67.0	67.0	67.0
85°	17.8	31.3	26.8	53.6	35.7	35.7	44.7	53.6	44.7	44.7	53.6
87.5°	17.8	17.8	13.4	17.8	17.8	17.8	22.3	26.8	26.8	31.3	26.8
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: P249260

CATALOG NUMBER: LD8B175D010 ER8B175935 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	8321.1	8321.1	8321.1	8321.1
2.5°	8334.5	8343.4	8330.1	8325.6
5°	8347.9	8347.9	8339.0	8339.0
7.5°	8347.9	8347.9	8334.5	8325.6
10°	8312.1	8312.1	8298.8	8289.8
12.5°	8245.1	8245.1	8240.7	8227.3
15°	8160.3	8160.3	8142.4	8129.1
17.5°	8044.2	8053.1	8030.8	8030.8
20°	7919.1	7914.6	7896.8	7887.9
22.5°	7789.6	7780.7	7776.2	7749.4
25°	7651.2	7642.2	7628.8	7615.4
27.5°	7414.4	7410.0	7396.5	7378.7
30°	7052.6	7048.1	7030.3	7030.3
32.5°	6583.6	6579.1	6561.3	6565.8
35°	6096.7	6114.7	6105.7	6087.9
37.5°	5690.3	5703.7	5712.7	5703.7
40°	5350.9	5391.1	5395.6	5404.5
42.5°	4989.1	5042.7	5060.6	5069.4
45°	4555.8	4605.0	4645.2	4636.2
47.5°	4113.6	4149.3	4185.1	4158.3
50°	3689.3	3711.6	3725.1	3725.1
52.5°	3287.4	3287.4	3282.9	3287.4
55°	2827.3	2827.3	2809.5	2818.3
57.5°	2344.9	2353.8	2340.4	2318.1
60°	1898.2	1875.9	1867.0	1853.6
62.5°	1478.4	1478.4	1447.2	1487.3
65°	1107.7	1094.3	1080.9	1076.4
67.5°	803.9	799.5	786.1	781.6
70°	567.2	549.4	544.9	536.0
72.5°	379.7	379.7	370.7	370.7
75°	232.2	209.9	205.5	209.9
77.5°	160.8	156.3	156.3	151.9
80°	107.2	102.7	111.7	98.3
82.5°	67.0	71.5	67.0	71.5
85°	44.7	53.6	49.2	49.2
87.5°	26.8	26.8	26.8	26.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)