

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: P249611

Luminaire Tested: **LD8B175D010 ER8B1759727 8LBDW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249611  
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 ER8B1759727 8LBDW0MW  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12798.0 lumens  
Efficiency: N/A  
Efficacy: 72.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

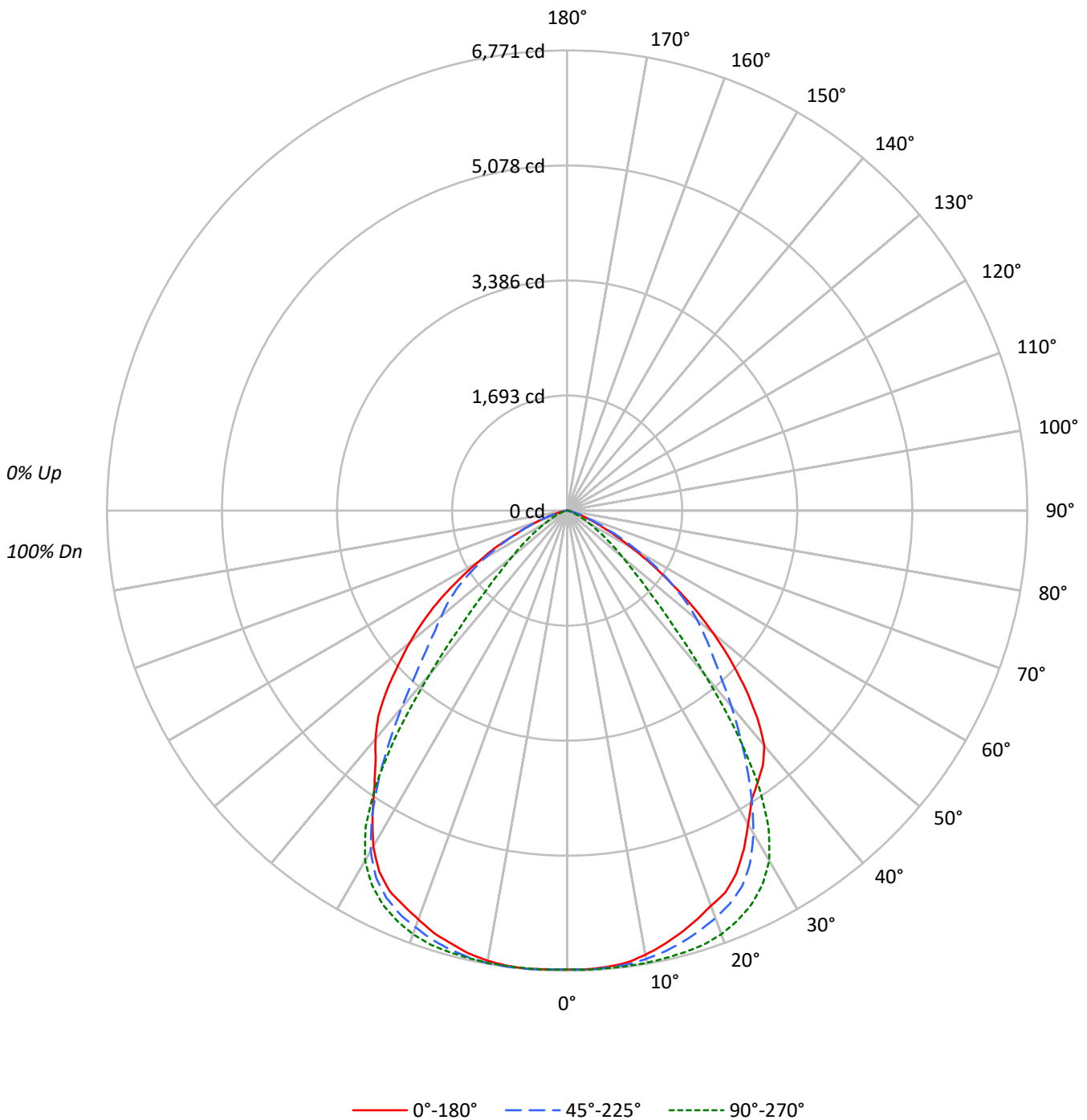
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	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°	644.4	5.0
10°-20°	1871.5	14.6
20°-30°	2840.6	22.2
30°-40°	2983.5	23.3
40°-50°	2236.8	17.5
50°-60°	1435.2	11.2
60°-70°	614.0	4.8
70°-80°	145.1	1.1
80°-90°	27.0	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°	5356.5	41.9
0°-40°	8340.0	65.2
0°-60°	12012.0	93.9
0°-90°	12798.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12798.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6752	6752	6752	6752	6752	
5°	6742	6752	6760	6771	6767	640
15°	6437	6571	6724	6680	6597	1816
25°	5890	6096	6405	6289	6180	2691
35°	4886	4614	4889	4831	4940	3066
45°	3712	3034	1743	2947	3762	2842
55°	1878	1878	649	1957	2287	1703
65°	566	667	207	859	874	604
75°	87	102	29	174	170	127
85°	29	18	14	29	40	31
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°	6752.5	6752.5	6752.5	6752.5	6752.5	6752.5	6752.5	6752.5	6752.5	6752.5	6752.5
2.5°	6756.1	6763.4	6759.7	6759.7	6756.1	6759.7	6759.7	6767.0	6767.0	6759.7	6756.1
5°	6741.6	6748.8	6748.8	6741.6	6741.6	6759.7	6748.8	6756.1	6756.1	6752.5	6752.5
7.5°	6709.0	6709.0	6723.5	6712.7	6712.7	6723.5	6719.8	6727.1	6734.4	6738.0	6738.0
10°	6636.5	6643.7	6647.4	6647.4	6651.0	6661.8	6669.1	6683.7	6690.8	6698.1	6701.7
12.5°	6545.9	6556.7	6560.4	6556.7	6567.7	6582.1	6600.3	6618.4	6629.3	6643.7	6654.7
15°	6437.1	6437.1	6444.4	6455.3	6462.6	6484.3	6502.4	6524.1	6553.1	6571.3	6589.4
17.5°	6317.6	6324.8	6335.7	6335.7	6350.2	6386.4	6397.3	6429.9	6462.6	6480.7	6516.9
20°	6187.1	6194.3	6205.2	6212.5	6230.6	6259.6	6281.3	6310.3	6346.6	6379.2	6415.4
22.5°	6085.6	6071.1	6078.3	6085.6	6103.7	6129.1	6154.5	6190.7	6226.9	6259.6	6295.8
25°	5889.8	5893.5	5904.4	5911.6	5933.4	5955.1	5984.1	6027.6	6060.2	6096.5	6136.3
27.5°	5625.3	5628.9	5647.0	5647.0	5665.1	5701.4	5719.5	5755.7	5799.3	5835.5	5882.6
30°	5324.5	5331.6	5331.6	5346.2	5357.0	5375.2	5393.3	5429.5	5451.3	5483.9	5549.2
32.5°	5049.0	5056.2	5052.5	5049.0	5038.1	5034.4	5030.8	5038.1	5045.4	5056.2	5081.5
35°	4885.9	4867.7	4853.3	4827.9	4798.9	4762.6	4730.0	4686.5	4646.6	4614.0	4577.8
37.5°	4730.0	4726.4	4704.6	4668.4	4610.4	4545.2	4469.1	4374.8	4280.5	4179.1	4081.2
40°	4512.5	4501.6	4483.5	4432.8	4367.5	4287.8	4186.3	4070.3	3918.1	3762.2	3602.8
42.5°	4142.8	4146.4	4124.7	4084.8	4023.2	3947.1	3842.0	3715.2	3552.1	3367.1	3160.6
45°	3711.5	3711.5	3704.2	3671.6	3628.2	3566.5	3486.8	3381.7	3222.2	3033.7	2812.6
47.5°	3262.1	3265.7	3254.8	3247.6	3229.4	3189.6	3131.6	3051.9	2939.5	2758.2	2537.1
50°	2805.4	2805.4	2823.5	2819.9	2819.9	2805.4	2780.0	2732.9	2635.0	2490.0	2283.5
52.5°	2348.7	2355.9	2366.9	2381.3	2399.4	2428.4	2399.4	2377.7	2316.0	2203.7	2026.1
55°	1877.5	1884.8	1902.9	1928.2	1950.0	1979.0	1986.2	1986.2	1953.6	1877.5	1743.4
57.5°	1475.2	1464.3	1478.8	1500.6	1529.6	1558.6	1580.3	1605.7	1602.0	1551.3	1442.6
60°	1109.1	1112.7	1123.6	1145.4	1167.1	1192.5	1221.5	1243.2	1254.1	1228.7	1159.8
62.5°	808.3	808.3	822.7	844.5	855.4	891.6	909.7	920.7	931.5	927.8	884.4
65°	565.5	572.6	579.9	590.8	601.6	623.4	634.3	656.0	663.3	666.9	634.3
67.5°	398.7	387.8	395.1	402.3	413.2	427.7	449.5	449.5	460.3	460.3	438.6
70°	253.7	253.7	257.4	268.2	275.5	279.1	286.4	293.6	304.5	300.8	300.8
72.5°	170.4	166.7	170.4	174.0	177.6	188.5	188.5	192.1	199.4	203.0	188.5
75°	87.0	90.6	97.8	94.3	105.1	97.8	101.5	112.4	108.7	101.5	101.5
77.5°	72.5	72.5	72.5	68.9	76.1	76.1	72.5	79.7	76.1	76.1	72.5
80°	50.7	54.4	50.7	47.1	50.7	47.1	47.1	47.1	47.1	47.1	43.5
82.5°	39.9	32.6	36.3	32.6	36.3	36.3	32.6	29.0	29.0	32.6	29.0
85°	29.0	21.7	25.4	25.4	21.7	21.7	21.7	21.7	21.7	18.1	18.1
87.5°	18.1	10.9	10.9	10.9	14.5	14.5	14.5	10.9	14.5	14.5	7.3
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6752.5	6752.5	6752.5	6752.5	6752.5	6752.5	6752.5	6752.5	6752.5	6752.5	6752.5
2.5°	6763.4	6759.7	6767.0	6763.4	6763.4	6759.7	6763.4	6759.7	6767.0	6752.5	6756.1
5°	6763.4	6756.1	6759.7	6763.4	6767.0	6759.7	6759.7	6759.7	6767.0	6759.7	6763.4
7.5°	6748.8	6745.2	6756.1	6763.4	6759.7	6756.1	6763.4	6759.7	6767.0	6763.4	6770.6
10°	6719.8	6723.5	6730.7	6741.6	6745.2	6748.8	6756.1	6756.1	6767.0	6752.5	6759.7
12.5°	6676.4	6690.8	6709.0	6716.2	6730.7	6730.7	6738.0	6741.6	6748.8	6745.2	6756.1
15°	6622.0	6640.1	6661.8	6680.0	6698.1	6709.0	6719.8	6723.5	6734.4	6723.5	6727.1
17.5°	6556.7	6578.5	6611.1	6632.8	6661.8	6672.7	6687.2	6694.5	6705.4	6698.1	6701.7
20°	6466.1	6491.6	6527.7	6560.4	6578.5	6603.8	6622.0	6632.8	6640.1	6632.8	6636.5
22.5°	6339.3	6375.6	6422.7	6448.0	6484.3	6506.0	6509.7	6535.0	6553.1	6535.0	6542.3
25°	6190.7	6226.9	6263.2	6317.6	6350.2	6375.6	6400.9	6404.6	6422.7	6419.0	6415.4
27.5°	5944.2	5991.4	6052.9	6096.5	6139.9	6179.8	6208.8	6216.0	6234.2	6226.9	6230.6
30°	5607.1	5657.9	5715.9	5784.7	5846.4	5886.2	5922.5	5947.8	5965.9	5955.1	5951.5
32.5°	5128.7	5179.4	5241.1	5309.9	5382.5	5440.4	5483.9	5516.5	5538.3	5531.0	5512.9
35°	4581.4	4595.9	4635.8	4690.2	4751.7	4813.4	4853.3	4889.4	4914.8	4922.1	4922.1
37.5°	4019.6	3972.5	3943.5	3943.5	3979.7	4005.1	4041.3	4063.1	4103.0	4117.4	4128.3
40°	3475.9	3367.1	3265.7	3189.6	3138.9	3135.2	3135.2	3146.1	3182.3	3229.4	3273.0
42.5°	2990.2	2816.2	2660.4	2519.0	2417.6	2359.6	2334.2	2337.9	2366.9	2410.3	2482.8
45°	2602.4	2384.9	2189.2	2018.9	1881.1	1790.5	1747.0	1743.4	1765.1	1815.9	1895.7
47.5°	2301.6	2069.6	1848.5	1652.8	1504.2	1406.3	1355.6	1341.1	1355.6	1402.7	1496.9
50°	2051.5	1812.3	1583.9	1380.9	1221.5	1120.0	1072.8	1054.7	1072.8	1112.7	1206.9
52.5°	1819.5	1573.0	1359.2	1163.5	993.1	906.1	855.4	844.5	855.4	902.5	978.7
55°	1551.3	1341.1	1130.8	935.1	786.6	699.6	659.6	648.8	659.6	703.2	782.9
57.5°	1286.7	1105.5	920.7	743.0	616.2	540.0	503.8	489.3	514.6	543.6	637.9
60°	1040.2	895.3	739.4	583.6	478.5	409.6	380.6	376.9	384.2	420.5	485.6
62.5°	815.6	695.9	572.6	445.8	358.8	329.8	293.6	290.0	297.2	318.9	369.7
65°	587.2	511.1	416.8	326.2	257.4	217.5	203.0	206.6	213.8	228.4	275.5
67.5°	409.6	355.2	290.0	228.4	177.6	159.5	145.0	141.4	145.0	170.4	195.7
70°	275.5	242.8	195.7	174.0	123.3	97.8	101.5	90.6	105.1	105.1	126.8
72.5°	181.2	159.5	130.5	101.5	87.0	68.9	68.9	65.3	72.5	76.1	94.3
75°	94.3	72.5	72.5	50.7	36.3	18.1	32.6	29.0	25.4	29.0	36.3
77.5°	65.3	54.4	50.7	39.9	36.3	29.0	29.0	29.0	29.0	32.6	36.3
80°	39.9	39.9	29.0	25.4	21.7	18.1	21.7	21.7	21.7	21.7	25.4
82.5°	25.4	21.7	21.7	18.1	18.1	14.5	14.5	14.5	14.5	14.5	21.7
85°	21.7	14.5	14.5	10.9	14.5	25.4	10.9	14.5	14.5	14.5	10.9
87.5°	7.3	10.9	10.9	10.9	7.3	3.6	7.3	10.9	10.9	18.1	14.5
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6752.5	6752.5	6752.5	6752.5	6752.5	6752.5	6752.5	6752.5	6752.5	6752.5	6752.5
2.5°	6763.4	6767.0	6767.0	6763.4	6763.4	6756.1	6770.6	6759.7	6763.4	6777.8	6767.0
5°	6770.6	6774.2	6774.2	6770.6	6770.6	6770.6	6774.2	6774.2	6770.6	6767.0	6774.2
7.5°	6785.1	6781.5	6781.5	6774.2	6774.2	6767.0	6774.2	6763.4	6770.6	6763.4	6774.2
10°	6767.0	6770.6	6767.0	6763.4	6763.4	6759.7	6759.7	6748.8	6752.5	6741.6	6748.8
12.5°	6756.1	6752.5	6752.5	6745.2	6738.0	6730.7	6727.1	6716.2	6716.2	6690.8	6701.7
15°	6727.1	6730.7	6719.8	6705.4	6698.1	6680.0	6672.7	6658.2	6643.7	6625.7	6629.3
17.5°	6701.7	6690.8	6676.4	6661.8	6632.8	6618.4	6603.8	6582.1	6574.8	6553.1	6545.9
20°	6625.7	6618.4	6600.3	6574.8	6556.7	6524.1	6509.7	6487.9	6469.7	6448.0	6437.1
22.5°	6527.7	6520.5	6498.7	6473.4	6444.4	6429.9	6415.4	6375.6	6357.4	6335.7	6332.0
25°	6404.6	6393.7	6371.9	6342.9	6328.4	6288.6	6274.0	6245.0	6237.8	6216.0	6212.5
27.5°	6216.0	6201.6	6176.2	6139.9	6114.6	6089.2	6074.7	6052.9	6045.7	6023.9	6020.4
30°	5933.4	5915.2	5864.5	5850.0	5806.5	5781.1	5781.1	5752.1	5755.7	5741.3	5741.3
32.5°	5487.5	5458.5	5418.6	5389.6	5360.6	5346.2	5346.2	5335.3	5342.5	5342.5	5349.8
35°	4896.7	4856.9	4835.1	4817.0	4817.0	4831.4	4875.0	4885.9	4907.6	4925.7	4940.3
37.5°	4139.2	4135.6	4161.0	4182.7	4237.1	4298.7	4374.8	4440.1	4501.6	4545.2	4588.6
40°	3320.1	3410.7	3483.2	3584.7	3668.0	3787.6	3925.3	4037.7	4142.8	4219.0	4298.7
42.5°	2591.5	2707.5	2859.8	3008.3	3157.0	3320.1	3501.3	3657.2	3794.9	3900.0	3983.3
45°	2018.9	2178.3	2363.2	2551.7	2743.8	2946.8	3135.2	3294.7	3439.7	3548.4	3631.8
47.5°	1627.4	1801.4	2011.6	2218.2	2435.7	2649.5	2859.8	2997.5	3117.1	3204.1	3280.2
50°	1344.7	1529.6	1750.7	1986.2	2203.7	2417.6	2598.8	2732.9	2830.8	2906.9	2954.0
52.5°	1123.6	1319.3	1554.9	1790.5	2007.9	2203.7	2366.9	2468.3	2548.0	2602.4	2645.9
55°	927.8	1116.4	1337.5	1558.6	1772.4	1957.2	2091.3	2167.5	2229.0	2261.7	2287.0
57.5°	757.6	931.5	1134.5	1337.5	1522.3	1674.6	1779.7	1855.8	1884.8	1910.1	1906.5
60°	594.5	757.6	942.4	1116.4	1275.8	1399.0	1475.2	1518.7	1540.4	1551.3	1544.0
62.5°	467.6	616.2	757.6	909.7	1025.7	1130.8	1203.4	1203.4	1214.2	1217.8	1228.7
65°	347.9	460.3	583.6	695.9	790.1	859.0	898.9	909.7	924.3	920.7	913.4
67.5°	257.4	340.7	431.3	514.6	579.9	623.4	652.4	677.8	674.2	666.9	663.3
70°	177.6	232.0	311.7	362.5	409.6	453.1	460.3	463.9	467.6	471.2	463.9
72.5°	123.3	163.1	206.6	250.1	279.1	297.2	315.4	318.9	318.9	318.9	315.4
75°	61.6	83.4	123.3	141.4	166.7	174.0	188.5	188.5	199.4	184.8	181.2
77.5°	54.4	65.3	87.0	101.5	112.4	123.3	126.8	137.7	134.1	126.8	130.5
80°	32.6	39.9	54.4	61.6	76.1	79.7	83.4	87.0	83.4	87.0	87.0
82.5°	25.4	29.0	36.3	36.3	47.1	47.1	50.7	50.7	54.4	54.4	54.4
85°	14.5	25.4	21.7	43.5	29.0	29.0	36.3	43.5	36.3	36.3	43.5
87.5°	14.5	14.5	10.9	14.5	14.5	14.5	18.1	21.7	21.7	25.4	21.7
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: P249611

CATALOG NUMBER: LD8B175D010 ER8B1759727 8LBDW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	6752.5	6752.5	6752.5	6752.5
2.5°	6763.4	6770.6	6759.7	6756.1
5°	6774.2	6774.2	6767.0	6767.0
7.5°	6774.2	6774.2	6763.4	6756.1
10°	6745.2	6745.2	6734.4	6727.1
12.5°	6690.8	6690.8	6687.2	6676.4
15°	6622.0	6622.0	6607.5	6596.7
17.5°	6527.7	6535.0	6516.9	6516.9
20°	6426.3	6422.7	6408.2	6400.9
22.5°	6321.2	6313.9	6310.3	6288.6
25°	6208.8	6201.6	6190.7	6179.8
27.5°	6016.7	6013.1	6002.2	5987.7
30°	5723.1	5719.5	5705.0	5705.0
32.5°	5342.5	5338.9	5324.5	5328.1
35°	4947.4	4962.0	4954.7	4940.3
37.5°	4617.6	4628.5	4635.8	4628.5
40°	4342.2	4374.8	4378.4	4385.7
42.5°	4048.6	4092.1	4106.6	4113.8
45°	3697.0	3736.9	3769.5	3762.2
47.5°	3338.1	3367.1	3396.1	3374.4
50°	2993.9	3012.0	3022.9	3022.9
52.5°	2667.7	2667.7	2664.0	2667.7
55°	2294.3	2294.3	2279.9	2287.0
57.5°	1902.9	1910.1	1899.2	1881.1
60°	1540.4	1522.3	1515.0	1504.2
62.5°	1199.7	1199.7	1174.4	1206.9
65°	898.9	888.0	877.1	873.5
67.5°	652.4	648.8	637.9	634.3
70°	460.3	445.8	442.2	434.9
72.5°	308.1	308.1	300.8	300.8
75°	188.5	170.4	166.7	170.4
77.5°	130.5	126.8	126.8	123.3
80°	87.0	83.4	90.6	79.7
82.5°	54.4	58.0	54.4	58.0
85°	36.3	43.5	39.9	39.9
87.5°	21.7	21.7	21.7	21.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)