

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: P248432

Luminaire Tested: **LD8B175D010 ER8B1759730 8LBDW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248432  
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 ER8B1759730 8LBDW0LI  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14192.0 lumens  
Efficiency: N/A  
Efficacy: 80.1 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

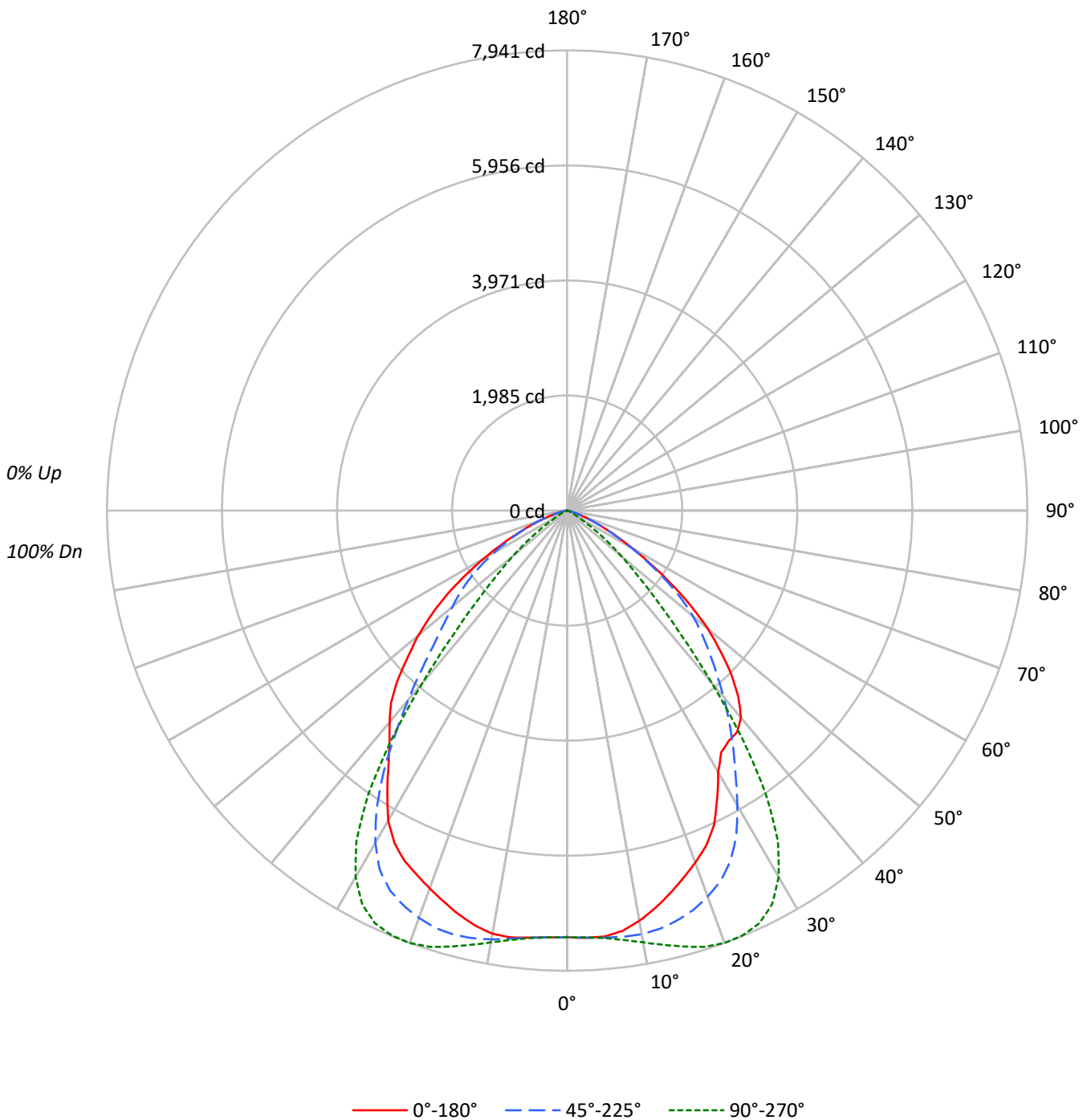
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	708.0	5.0
10°-20°	2097.4	14.8
20°-30°	3199.8	22.5
30°-40°	3339.1	23.5
40°-50°	2508.1	17.7
50°-60°	1543.2	10.9
60°-70°	628.0	4.4
70°-80°	148.0	1.0
80°-90°	20.4	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°	6005.3	42.3
0°-40°	9344.4	65.8
0°-60°	13395.7	94.4
0°-90°	14192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14192.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	7362	7362	7362	7362	7362	
5°	7378	7398	7405	7398	7398	698
15°	6843	7323	7788	7573	7218	1928
25°	5995	6667	7855	7233	6659	2725
35°	4857	4994	5983	5530	5373	3067
45°	4010	3470	2165	3232	4134	3059
55°	2165	2056	567	2056	2536	1946
65°	676	684	86	918	973	705
75°	117	117	16	207	215	141
85°	12	12	4	27	35	16
90°	0	0	0	0	0	



TEST NUMBER: P248432

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3
2.5°	7381.9	7370.1	7381.9	7381.9	7385.8	7378.0	7381.9	7385.8	7378.0	7378.0	7378.0
5°	7378.0	7370.1	7378.0	7374.1	7381.9	7381.9	7389.7	7389.7	7397.5	7397.5	7409.3
7.5°	7315.5	7299.9	7315.5	7327.2	7335.0	7350.6	7370.1	7385.8	7401.4	7417.1	7436.6
10°	7186.5	7186.5	7198.2	7221.7	7245.1	7272.4	7307.6	7346.7	7385.8	7420.9	7456.1
12.5°	7026.3	7014.5	7038.0	7069.2	7104.4	7147.5	7202.1	7260.8	7323.3	7393.6	7448.4
15°	6842.6	6830.9	6858.2	6889.5	6932.5	6995.0	7061.5	7139.6	7229.5	7323.3	7413.2
17.5°	6655.0	6651.1	6678.4	6721.5	6756.7	6823.0	6909.1	7002.8	7104.4	7229.5	7346.7
20°	6463.6	6459.7	6487.0	6522.2	6569.1	6631.6	6717.6	6826.9	6948.1	7088.8	7225.6
22.5°	6264.2	6268.2	6291.6	6330.7	6369.8	6436.2	6526.0	6635.5	6768.3	6920.7	7073.2
25°	5994.6	5975.1	6006.3	6045.5	6111.8	6166.5	6252.6	6369.8	6506.5	6666.8	6846.5
27.5°	5603.8	5599.9	5627.3	5662.4	5721.0	5787.5	5881.3	6002.4	6147.0	6322.8	6498.7
30°	5213.0	5220.8	5232.6	5267.8	5306.8	5373.3	5467.1	5568.7	5705.4	5873.4	6061.0
32.5°	4947.3	4947.3	4963.0	4986.4	5013.7	5048.9	5115.4	5189.6	5295.1	5412.4	5549.1
35°	4857.4	4841.8	4857.4	4861.3	4865.2	4873.1	4884.7	4908.3	4943.4	4994.2	5045.0
37.5°	4818.4	4806.6	4806.6	4791.0	4771.4	4748.0	4716.7	4681.6	4642.5	4591.7	4552.7
40°	4666.0	4658.1	4650.3	4634.7	4591.7	4544.8	4494.0	4411.9	4322.0	4197.0	4072.0
42.5°	4372.9	4365.1	4361.1	4329.9	4290.8	4236.1	4177.5	4091.5	3978.2	3817.9	3638.2
45°	4009.5	3993.8	3982.1	3954.8	3927.3	3880.5	3825.8	3747.6	3634.3	3470.2	3255.2
47.5°	3587.4	3579.6	3575.6	3564.0	3536.6	3509.2	3474.1	3411.6	3309.9	3153.6	2930.9
50°	3161.4	3145.8	3153.6	3149.8	3138.0	3118.5	3095.0	3052.0	2973.8	2833.2	2630.0
52.5°	2672.9	2672.9	2669.1	2680.8	2684.7	2680.8	2684.7	2637.8	2571.4	2465.8	2293.9
55°	2164.9	2164.9	2176.7	2192.3	2207.9	2211.8	2207.9	2188.4	2141.5	2055.5	1903.1
57.5°	1688.1	1680.4	1703.8	1727.2	1742.9	1758.5	1746.8	1731.2	1703.8	1633.4	1516.2
60°	1285.7	1285.7	1301.3	1316.9	1332.5	1348.2	1344.3	1340.4	1316.9	1270.0	1176.3
62.5°	945.7	949.6	949.6	961.3	976.9	992.6	1004.3	992.6	980.9	949.6	887.1
65°	676.0	672.1	676.0	687.8	699.5	715.1	723.0	719.0	707.3	683.9	637.0
67.5°	453.3	449.4	465.0	468.9	476.8	492.4	488.5	492.4	488.5	468.9	429.9
70°	297.0	289.2	297.0	293.1	304.8	308.7	316.5	320.4	316.5	304.8	293.1
72.5°	183.7	179.8	183.7	187.6	191.5	195.3	203.2	203.2	199.3	191.5	175.8
75°	117.2	105.5	109.4	101.6	109.4	109.4	117.2	121.1	117.2	117.2	109.4
77.5°	70.4	70.4	70.4	70.4	70.4	70.4	70.4	74.3	78.1	70.4	66.5
80°	35.2	35.2	39.1	39.1	39.1	43.0	39.1	39.1	39.1	43.0	31.3
82.5°	27.3	23.4	23.4	23.4	27.3	23.4	23.4	23.4	23.4	23.4	23.4
85°	11.8	15.6	11.8	7.8	11.8	11.8	15.6	11.8	11.8	11.8	15.6
87.5°	3.9	3.9	0.0	0.0	0.0	3.9	0.0	3.9	3.9	7.8	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°	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3
2.5°	7381.9	7374.1	7374.1	7370.1	7378.0	7370.1	7374.1	7370.1	7370.1	7378.0	7370.1
5°	7409.3	7413.2	7405.3	7401.4	7413.2	7413.2	7413.2	7405.3	7405.3	7409.3	7405.3
7.5°	7448.4	7456.1	7460.0	7464.0	7471.8	7475.7	7475.7	7471.8	7467.9	7479.6	7464.0
10°	7491.3	7503.1	7526.5	7538.2	7557.8	7557.8	7565.6	7565.6	7557.8	7565.6	7561.7
12.5°	7475.7	7546.0	7585.1	7612.4	7639.8	7663.2	7671.1	7675.0	7671.1	7686.7	7671.1
15°	7503.1	7561.7	7624.2	7671.1	7721.8	7749.2	7757.0	7788.3	7796.1	7800.0	7776.6
17.5°	7460.0	7565.6	7632.0	7702.3	7776.6	7827.4	7874.2	7893.8	7897.8	7905.5	7874.2
20°	7362.3	7479.6	7581.2	7682.8	7768.8	7846.9	7886.0	7940.7	7925.1	7956.4	7913.4
22.5°	7229.5	7362.3	7491.3	7624.2	7714.1	7807.9	7889.9	7928.9	7948.5	7948.5	7901.6
25°	7018.5	7174.8	7315.5	7452.2	7589.0	7702.3	7796.1	7854.7	7866.5	7862.6	7807.9
27.5°	6690.2	6858.2	7022.4	7178.7	7346.7	7479.6	7589.0	7659.3	7678.9	7678.9	7620.3
30°	6236.9	6416.6	6576.9	6764.4	6936.4	7084.9	7237.3	7299.9	7335.0	7335.0	7268.6
32.5°	5697.6	5850.0	5998.5	6182.2	6369.8	6537.8	6682.4	6768.3	6811.4	6807.4	6748.8
35°	5111.5	5185.7	5299.1	5435.8	5603.8	5760.1	5900.8	5982.9	6057.1	6053.2	5998.5
37.5°	4525.2	4505.7	4517.5	4568.3	4673.7	4783.2	4892.6	4970.8	5033.2	5060.7	5048.9
40°	3950.8	3849.2	3751.5	3716.4	3724.1	3763.2	3821.9	3880.5	3950.8	3986.0	4001.6
42.5°	3435.0	3263.1	3091.0	2962.2	2887.9	2864.4	2891.8	2911.3	2954.3	3005.1	3056.0
45°	3020.8	2790.2	2563.5	2364.3	2239.2	2164.9	2149.3	2164.9	2188.4	2239.2	2305.6
47.5°	2680.8	2411.1	2157.1	1934.4	1750.7	1653.0	1625.7	1617.9	1641.3	1688.1	1778.0
50°	2379.8	2110.2	1828.9	1570.9	1379.5	1270.0	1231.0	1215.3	1242.7	1277.8	1359.9
52.5°	2051.6	1785.9	1496.7	1246.6	1047.3	934.0	891.0	867.5	883.1	930.1	1012.1
55°	1696.0	1449.8	1188.0	930.1	738.6	633.1	582.2	566.6	582.2	633.1	715.1
57.5°	1340.4	1133.3	914.4	672.1	500.2	394.7	343.8	328.3	371.3	390.8	476.8
60°	1047.3	879.3	691.7	492.4	343.8	261.8	211.0	199.3	218.9	254.0	324.3
62.5°	785.5	679.9	531.4	351.7	254.0	168.0	140.7	129.0	140.7	168.0	222.8
65°	570.6	488.5	371.3	257.9	171.9	125.1	93.8	86.0	97.7	117.2	164.2
67.5°	390.8	328.3	257.9	179.8	117.2	78.1	66.5	66.5	70.4	86.0	121.1
70°	254.0	214.9	164.2	117.2	78.1	58.6	50.8	43.0	50.8	62.5	82.0
72.5°	160.3	136.7	105.5	82.0	58.6	43.0	35.2	31.3	39.1	46.9	62.5
75°	97.7	74.3	54.7	43.0	31.3	31.3	31.3	15.6	19.5	31.3	39.1
77.5°	58.6	50.8	43.0	35.2	27.3	15.6	15.6	15.6	19.5	23.4	35.2
80°	31.3	27.3	19.5	19.5	15.6	11.8	15.6	11.8	7.8	19.5	23.4
82.5°	19.5	15.6	15.6	15.6	19.5	7.8	11.8	7.8	11.8	15.6	11.8
85°	11.8	11.8	11.8	7.8	19.5	7.8	7.8	3.9	3.9	7.8	7.8
87.5°	0.0	3.9	3.9	0.0	3.9	0.0	3.9	3.9	3.9	3.9	3.9
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°	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3
2.5°	7374.1	7370.1	7374.1	7370.1	7370.1	7370.1	7374.1	7374.1	7370.1	7370.1	7378.0
5°	7405.3	7405.3	7405.3	7401.4	7397.5	7397.5	7405.3	7405.3	7393.6	7405.3	7405.3
7.5°	7471.8	7460.0	7471.8	7456.1	7448.4	7452.2	7456.1	7448.4	7440.5	7444.4	7444.4
10°	7557.8	7546.0	7546.0	7534.3	7522.6	7514.7	7507.0	7487.4	7467.9	7464.0	7448.4
12.5°	7659.3	7639.8	7628.1	7604.6	7585.1	7557.8	7534.3	7503.1	7464.0	7436.6	7409.3
15°	7760.9	7729.7	7702.3	7663.2	7620.3	7573.3	7522.6	7471.8	7409.3	7354.6	7307.6
17.5°	7843.0	7800.0	7749.2	7686.7	7624.2	7553.8	7479.6	7405.3	7315.5	7245.1	7190.4
20°	7870.3	7807.9	7741.4	7659.3	7577.3	7479.6	7385.8	7288.1	7186.5	7112.3	7049.7
22.5°	7835.2	7760.9	7678.9	7592.9	7483.5	7378.0	7268.6	7155.2	7065.3	6963.8	6905.2
25°	7737.5	7647.6	7557.8	7456.1	7350.6	7233.4	7116.2	6999.0	6889.5	6834.8	6760.6
27.5°	7538.2	7440.5	7342.8	7237.3	7116.2	6999.0	6877.8	6764.4	6670.7	6596.4	6553.5
30°	7186.5	7073.2	6959.9	6846.5	6741.0	6619.8	6506.5	6412.7	6318.9	6260.3	6217.4
32.5°	6647.2	6545.6	6432.3	6322.8	6225.2	6123.6	6029.8	5947.7	5881.3	5842.2	5810.9
35°	5920.4	5818.7	5732.8	5654.7	5572.5	5529.6	5471.0	5424.0	5396.7	5381.1	5377.2
37.5°	5005.9	4947.3	4919.9	4904.3	4888.7	4877.0	4884.7	4904.3	4919.9	4947.3	4978.5
40°	4029.0	4079.7	4095.4	4150.1	4200.9	4267.3	4341.6	4427.6	4497.9	4587.8	4650.3
42.5°	3138.0	3231.8	3341.2	3458.4	3583.5	3704.6	3853.1	3989.9	4114.9	4228.2	4326.0
45°	2411.1	2555.7	2719.9	2887.9	3056.0	3231.8	3411.6	3579.6	3728.1	3849.2	3950.8
47.5°	1879.7	2039.9	2250.9	2458.1	2661.2	2868.4	3067.6	3243.5	3368.5	3485.8	3575.6
50°	1488.9	1672.6	1903.1	2141.5	2364.3	2583.0	2794.1	2958.2	3083.3	3177.1	3243.5
52.5°	1152.8	1371.6	1606.1	1856.2	2094.6	2333.0	2528.3	2680.8	2782.4	2864.4	2915.2
55°	859.7	1074.7	1324.8	1582.7	1825.0	2055.5	2239.2	2372.1	2462.0	2508.8	2536.2
57.5°	621.3	816.8	1066.8	1324.8	1543.6	1762.4	1910.9	2032.1	2082.9	2110.2	2122.0
60°	453.3	633.1	855.8	1078.6	1285.7	1461.5	1590.5	1672.6	1711.7	1727.2	1723.3
62.5°	332.2	488.5	679.9	867.5	1035.5	1180.1	1281.8	1336.5	1356.1	1363.8	1352.1
65°	254.0	375.1	539.3	683.9	812.8	918.3	992.6	1027.8	1039.5	1035.5	1027.8
67.5°	187.6	281.4	402.6	511.9	605.7	687.8	726.9	758.2	765.9	754.2	742.5
70°	132.9	207.1	293.1	367.4	437.6	484.6	527.5	531.4	531.4	527.5	519.8
72.5°	93.8	144.6	199.3	250.1	293.1	328.3	343.8	355.6	351.7	347.8	340.0
75°	62.5	89.9	144.6	156.3	195.3	207.1	222.8	222.8	226.6	214.9	214.9
77.5°	39.1	62.5	86.0	101.6	117.2	132.9	140.7	140.7	144.6	140.7	140.7
80°	23.4	39.1	46.9	70.4	70.4	82.0	86.0	89.9	82.0	93.8	82.0
82.5°	15.6	23.4	35.2	35.2	43.0	50.8	50.8	54.7	54.7	50.8	50.8
85°	11.8	15.6	19.5	23.4	23.4	27.3	23.4	23.4	27.3	31.3	27.3
87.5°	3.9	7.8	3.9	7.8	7.8	15.6	11.8	11.8	11.8	15.6	15.6
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: P248432

CATALOG NUMBER: LD8B175D010 ER8B1759730 8LBDW0LI

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	7362.3	7362.3	7362.3	7362.3
2.5°	7370.1	7374.1	7370.1	7370.1
5°	7405.3	7401.4	7405.3	7397.5
7.5°	7432.7	7432.7	7428.8	7428.8
10°	7432.7	7417.1	7417.1	7417.1
12.5°	7374.1	7354.6	7342.8	7335.0
15°	7272.4	7237.3	7221.7	7217.7
17.5°	7139.6	7108.3	7088.8	7077.1
20°	6987.2	6955.9	6932.5	6936.4
22.5°	6854.3	6819.2	6803.5	6795.7
25°	6721.5	6678.4	6666.8	6658.9
27.5°	6506.5	6483.1	6471.3	6459.7
30°	6178.3	6166.5	6147.0	6174.3
32.5°	5799.2	5779.6	5764.1	5775.8
35°	5381.1	5369.3	5381.1	5373.3
37.5°	4998.1	5009.8	5025.5	5033.2
40°	4697.2	4740.2	4755.9	4763.6
42.5°	4396.3	4447.1	4478.4	4497.9
45°	4025.0	4075.8	4111.0	4134.5
47.5°	3642.1	3685.1	3720.2	3716.4
50°	3294.3	3317.8	3333.3	3349.0
52.5°	2942.6	2942.6	2946.5	2946.5
55°	2544.0	2536.2	2532.3	2536.2
57.5°	2106.3	2098.5	2094.6	2082.9
60°	1707.7	1684.3	1668.6	1668.6
62.5°	1336.5	1309.1	1297.4	1293.5
65°	1004.3	1000.4	976.9	973.0
67.5°	726.9	711.2	695.6	699.5
70°	511.9	488.5	488.5	480.7
72.5°	332.2	320.4	316.5	316.5
75°	207.1	207.1	199.3	214.9
77.5°	136.7	136.7	132.9	136.7
80°	82.0	82.0	82.0	78.1
82.5°	50.8	54.7	50.8	50.8
85°	27.3	31.3	23.4	35.2
87.5°	15.6	19.5	15.6	19.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)