

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: P249187

Luminaire Tested: **LD8B150D010 ER8B150930 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249187  
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: LD8B150D010 ER8B150930 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13597.7 lumens  
Efficiency: N/A  
Efficacy: 85.8 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

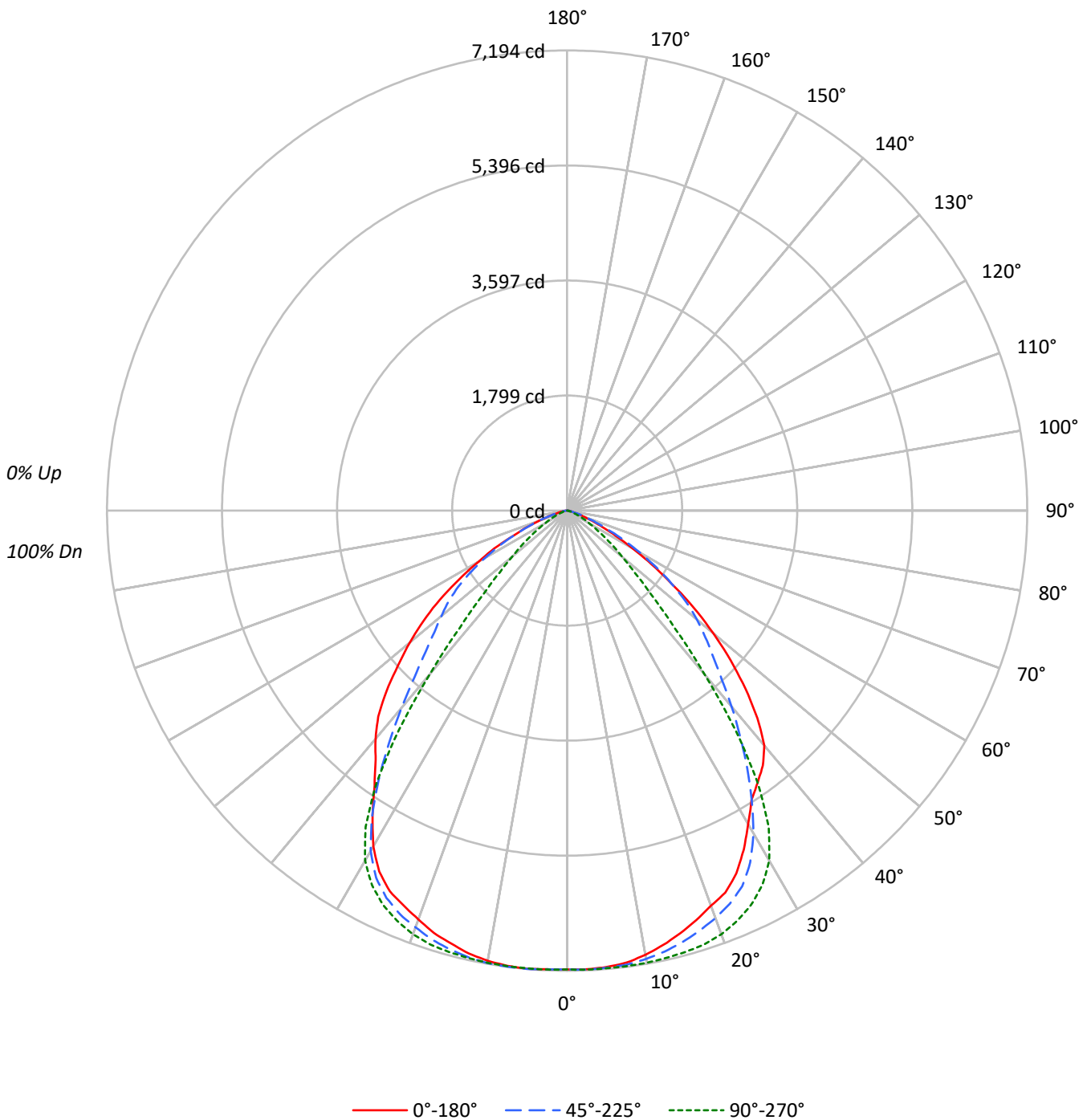
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	684.7	5.0
10°-20°	1988.5	14.6
20°-30°	3018.1	22.2
30°-40°	3169.9	23.3
40°-50°	2376.6	17.5
50°-60°	1524.9	11.2
60°-70°	652.3	4.8
70°-80°	154.1	1.1
80°-90°	28.7	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°	5691.3	41.9
0°-40°	8861.2	65.2
0°-60°	12762.6	93.9
0°-90°	13597.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13597.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	7174	7174	7174	7174	7174	
5°	7163	7174	7182	7194	7190	680
15°	6839	6982	7144	7098	7009	1929
25°	6258	6478	6805	6682	6566	2859
35°	5191	4902	5195	5133	5249	3258
45°	3944	3223	1852	3131	3997	3020
55°	1995	1995	689	2080	2430	1809
65°	601	709	220	913	928	641
75°	92	108	31	185	181	135
85°	31	19	15	31	42	32
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°	7174.4	7174.4	7174.4	7174.4	7174.4	7174.4	7174.4	7174.4	7174.4	7174.4	7174.4
2.5°	7178.3	7186.1	7182.1	7182.1	7178.3	7182.1	7182.1	7189.9	7189.9	7182.1	7178.3
5°	7162.9	7170.6	7170.6	7162.9	7162.9	7182.1	7170.6	7178.3	7178.3	7174.4	7174.4
7.5°	7128.2	7128.2	7143.6	7132.1	7132.1	7143.6	7139.8	7147.5	7155.2	7159.0	7159.0
10°	7051.2	7058.9	7062.7	7062.7	7066.7	7078.1	7085.8	7101.3	7108.9	7116.7	7120.5
12.5°	6955.0	6966.5	6970.4	6966.5	6978.1	6993.5	7012.8	7031.9	7043.6	7058.9	7070.5
15°	6839.3	6839.3	6847.1	6858.7	6866.3	6889.4	6908.7	6931.8	6962.6	6981.9	7001.1
17.5°	6712.3	6720.1	6731.6	6731.6	6747.0	6785.4	6797.1	6831.7	6866.3	6885.6	6924.2
20°	6573.8	6581.4	6592.9	6600.7	6619.8	6650.7	6673.8	6704.6	6743.2	6777.8	6816.2
22.5°	6465.8	6450.5	6458.1	6465.8	6485.1	6512.1	6539.0	6577.5	6616.0	6650.7	6689.2
25°	6257.9	6261.7	6273.3	6281.0	6304.2	6327.3	6358.1	6404.2	6438.9	6477.5	6519.7
27.5°	5976.8	5980.6	5999.9	5999.9	6019.1	6057.7	6076.8	6115.4	6161.7	6200.1	6250.2
30°	5657.1	5664.7	5664.7	5680.2	5691.8	5711.0	5730.3	5768.8	5791.9	5826.6	5895.9
32.5°	5364.5	5372.2	5368.2	5364.5	5352.9	5349.1	5345.2	5352.9	5360.6	5372.2	5399.1
35°	5191.2	5171.8	5156.5	5129.6	5098.8	5060.2	5025.6	4979.4	4937.0	4902.4	4863.9
37.5°	5025.6	5021.7	4998.7	4960.1	4898.4	4829.2	4748.3	4648.2	4548.0	4440.2	4336.3
40°	4794.5	4783.0	4763.7	4709.8	4640.5	4555.7	4447.9	4324.7	4162.9	3997.4	3827.9
42.5°	4401.7	4405.5	4382.4	4340.1	4274.7	4193.7	4082.0	3947.3	3774.1	3577.6	3358.1
45°	3943.5	3943.5	3935.7	3901.1	3854.9	3789.4	3704.7	3593.0	3423.5	3223.2	2988.4
47.5°	3465.9	3469.7	3458.2	3450.6	3431.3	3388.9	3327.2	3242.6	3123.2	2930.6	2695.7
50°	2980.7	2980.7	2999.9	2996.1	2996.1	2980.7	2953.7	2903.6	2799.7	2645.7	2426.2
52.5°	2495.5	2503.2	2514.7	2530.1	2549.4	2580.2	2549.4	2526.3	2460.8	2341.4	2152.8
55°	1994.8	2002.6	2021.7	2048.7	2071.8	2102.7	2110.3	2110.3	2075.6	1994.8	1852.3
57.5°	1567.4	1555.8	1571.3	1594.3	1625.1	1655.9	1679.0	1706.0	1702.1	1648.2	1532.7
60°	1178.4	1182.3	1193.8	1217.0	1240.1	1267.0	1297.8	1320.9	1332.5	1305.5	1232.3
62.5°	858.8	858.8	874.2	897.2	908.8	947.4	966.6	978.2	989.7	985.8	939.6
65°	600.7	608.5	616.1	627.8	639.2	662.3	673.9	697.0	704.8	708.6	673.9
67.5°	423.6	412.1	419.8	427.4	439.0	454.5	477.5	477.5	489.1	489.1	466.0
70°	269.6	269.6	273.4	285.0	292.7	296.5	304.2	311.9	323.5	319.6	319.6
72.5°	181.0	177.1	181.0	184.9	188.8	200.2	200.2	204.1	211.9	215.7	200.2
75°	92.5	96.3	103.9	100.2	111.7	103.9	107.8	119.4	115.6	107.8	107.8
77.5°	77.0	77.0	77.0	73.2	80.8	80.8	77.0	84.7	80.8	80.8	77.0
80°	53.9	57.7	53.9	50.0	53.9	50.0	50.0	50.0	50.0	50.0	46.2
82.5°	42.4	34.6	38.6	34.6	38.6	38.6	34.6	30.8	30.8	34.6	30.8
85°	30.8	23.1	26.9	26.9	23.1	23.1	23.1	23.1	23.1	19.2	19.2
87.5°	19.2	11.5	11.5	11.5	15.4	15.4	15.4	11.5	15.4	15.4	7.7
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°	7174.4	7174.4	7174.4	7174.4	7174.4	7174.4	7174.4	7174.4	7174.4	7174.4	7174.4
2.5°	7186.1	7182.1	7189.9	7186.1	7186.1	7182.1	7186.1	7182.1	7189.9	7174.4	7178.3
5°	7186.1	7178.3	7182.1	7186.1	7189.9	7182.1	7182.1	7182.1	7189.9	7182.1	7186.1
7.5°	7170.6	7166.7	7178.3	7186.1	7182.1	7178.3	7186.1	7182.1	7189.9	7186.1	7193.7
10°	7139.8	7143.6	7151.3	7162.9	7166.7	7170.6	7178.3	7178.3	7189.9	7174.4	7182.1
12.5°	7093.6	7108.9	7128.2	7135.8	7151.3	7151.3	7159.0	7162.9	7170.6	7166.7	7178.3
15°	7035.8	7055.0	7078.1	7097.5	7116.7	7128.2	7139.8	7143.6	7155.2	7143.6	7147.5
17.5°	6966.5	6989.5	7024.2	7047.3	7078.1	7089.8	7105.1	7112.9	7124.4	7116.7	7120.5
20°	6870.2	6897.2	6935.6	6970.4	6989.5	7016.5	7035.8	7047.3	7055.0	7047.3	7051.2
22.5°	6735.4	6774.0	6824.0	6851.0	6889.4	6912.5	6916.5	6943.4	6962.6	6943.4	6951.1
25°	6577.5	6616.0	6654.6	6712.3	6747.0	6774.0	6800.9	6804.8	6824.0	6820.2	6816.2
27.5°	6315.6	6365.7	6431.2	6477.5	6523.5	6566.0	6596.9	6604.5	6623.8	6616.0	6619.8
30°	5957.4	6011.5	6073.1	6146.2	6211.7	6254.1	6292.5	6319.5	6338.7	6327.3	6323.3
32.5°	5449.2	5503.1	5568.6	5641.8	5718.8	5780.3	5826.6	5861.3	5884.4	5876.6	5857.4
35°	4867.7	4883.1	4925.4	4983.3	5048.6	5114.1	5156.5	5194.9	5222.0	5229.7	5229.7
37.5°	4270.8	4220.8	4190.0	4190.0	4228.4	4255.3	4293.9	4317.0	4359.3	4374.7	4386.4
40°	3693.1	3577.6	3469.7	3388.9	3335.0	3331.2	3331.2	3342.6	3381.2	3431.3	3477.5
42.5°	3177.1	2992.2	2826.6	2676.5	2568.7	2507.0	2480.1	2483.9	2514.7	2560.9	2637.9
45°	2765.1	2534.0	2326.1	2145.0	1998.6	1902.3	1856.2	1852.3	1875.4	1929.4	2014.1
47.5°	2445.5	2199.0	1964.0	1756.0	1598.2	1494.2	1440.3	1424.9	1440.3	1490.3	1590.5
50°	2179.7	1925.5	1683.0	1467.3	1297.8	1190.1	1139.8	1120.7	1139.8	1182.3	1282.3
52.5°	1933.2	1671.3	1444.2	1236.1	1055.2	962.7	908.8	897.2	908.8	958.9	1039.8
55°	1648.2	1424.9	1201.5	993.5	835.7	743.2	700.8	689.4	700.8	747.1	831.9
57.5°	1367.2	1174.6	978.2	789.4	654.7	573.7	535.3	519.8	546.8	577.7	677.8
60°	1105.2	951.3	785.6	620.0	508.4	435.2	404.3	400.4	408.2	446.7	516.0
62.5°	866.5	739.4	608.5	473.7	381.3	350.4	311.9	308.2	315.8	338.9	392.8
65°	623.8	543.0	442.9	346.6	273.4	231.0	215.7	219.6	227.2	242.6	292.7
67.5°	435.2	377.3	308.2	242.6	188.8	169.4	154.0	150.2	154.0	181.0	207.9
70°	292.7	257.9	207.9	184.9	130.9	103.9	107.8	96.3	111.7	111.7	134.7
72.5°	192.5	169.4	138.6	107.8	92.5	73.2	73.2	69.4	77.0	80.8	100.2
75°	100.2	77.0	77.0	53.9	38.6	19.2	34.6	30.8	26.9	30.8	38.6
77.5°	69.4	57.7	53.9	42.4	38.6	30.8	30.8	30.8	30.8	34.6	38.6
80°	42.4	42.4	30.8	26.9	23.1	19.2	23.1	23.1	23.1	23.1	26.9
82.5°	26.9	23.1	23.1	19.2	19.2	15.4	15.4	15.4	15.4	15.4	23.1
85°	23.1	15.4	15.4	11.5	15.4	26.9	11.5	15.4	15.4	15.4	11.5
87.5°	7.7	11.5	11.5	11.5	7.7	3.8	7.7	11.5	11.5	19.2	15.4
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°	7174.4	7174.4	7174.4	7174.4	7174.4	7174.4	7174.4	7174.4	7174.4	7174.4	7174.4
2.5°	7186.1	7189.9	7189.9	7186.1	7186.1	7178.3	7193.7	7182.1	7186.1	7201.4	7189.9
5°	7193.7	7197.5	7197.5	7193.7	7193.7	7193.7	7197.5	7197.5	7193.7	7189.9	7197.5
7.5°	7209.2	7205.2	7205.2	7197.5	7197.5	7189.9	7197.5	7186.1	7193.7	7186.1	7197.5
10°	7189.9	7193.7	7189.9	7186.1	7186.1	7182.1	7182.1	7170.6	7174.4	7162.9	7170.6
12.5°	7178.3	7174.4	7174.4	7166.7	7159.0	7151.3	7147.5	7135.8	7135.8	7108.9	7120.5
15°	7147.5	7151.3	7139.8	7124.4	7116.7	7097.5	7089.8	7074.3	7058.9	7039.7	7043.6
17.5°	7120.5	7108.9	7093.6	7078.1	7047.3	7031.9	7016.5	6993.5	6985.7	6962.6	6955.0
20°	7039.7	7031.9	7012.8	6985.7	6966.5	6931.8	6916.5	6893.4	6874.1	6851.0	6839.3
22.5°	6935.6	6927.9	6904.8	6877.9	6847.1	6831.7	6816.2	6774.0	6754.7	6731.6	6727.7
25°	6804.8	6793.1	6770.1	6739.3	6723.9	6681.5	6666.0	6635.3	6627.6	6604.5	6600.7
27.5°	6604.5	6589.1	6562.1	6523.5	6496.6	6469.7	6454.4	6431.2	6423.6	6400.3	6396.5
30°	6304.2	6284.8	6231.0	6215.6	6169.3	6142.3	6142.3	6111.6	6115.4	6100.0	6100.0
32.5°	5830.4	5799.6	5757.2	5726.4	5695.6	5680.2	5680.2	5668.7	5676.4	5676.4	5684.1
35°	5202.7	5160.4	5137.2	5118.0	5118.0	5133.4	5179.6	5191.2	5214.3	5233.5	5249.0
37.5°	4397.8	4394.1	4421.0	4444.1	4501.8	4567.3	4648.2	4717.5	4783.0	4829.2	4875.3
40°	3527.6	3623.9	3700.8	3808.7	3897.2	4024.3	4170.7	4290.1	4401.7	4482.7	4567.3
42.5°	2753.4	2876.7	3038.5	3196.3	3354.3	3527.6	3720.2	3885.7	4032.0	4143.7	4232.2
45°	2145.0	2314.4	2510.9	2711.1	2915.3	3131.0	3331.2	3500.5	3654.7	3770.1	3858.7
47.5°	1729.0	1914.0	2137.3	2356.8	2587.8	2815.1	3038.5	3184.8	3311.9	3404.3	3485.2
50°	1428.7	1625.1	1860.1	2110.3	2341.4	2568.7	2761.1	2903.6	3007.6	3088.5	3138.6
52.5°	1193.8	1401.7	1652.1	1902.3	2133.4	2341.4	2514.7	2622.6	2707.2	2765.1	2811.2
55°	985.8	1186.1	1421.1	1655.9	1883.2	2079.6	2222.0	2303.0	2368.3	2403.0	2430.0
57.5°	804.9	989.7	1205.4	1421.1	1617.4	1779.3	1890.9	1971.7	2002.6	2029.5	2025.6
60°	631.6	804.9	1001.3	1186.1	1355.5	1486.4	1567.4	1613.6	1636.7	1648.2	1640.5
62.5°	496.7	654.7	804.9	966.6	1089.8	1201.5	1278.6	1278.6	1290.0	1294.0	1305.5
65°	369.7	489.1	620.0	739.4	839.5	912.7	955.1	966.6	982.0	978.2	970.4
67.5°	273.4	362.0	458.3	546.8	616.1	662.3	693.1	720.1	716.3	708.6	704.8
70°	188.8	246.5	331.3	385.1	435.2	481.4	489.1	492.9	496.7	500.6	492.9
72.5°	130.9	173.3	219.6	265.7	296.5	315.8	335.1	338.9	338.9	338.9	335.1
75°	65.5	88.6	130.9	150.2	177.1	184.9	200.2	200.2	211.9	196.4	192.5
77.5°	57.7	69.4	92.5	107.8	119.4	130.9	134.7	146.3	142.5	134.7	138.6
80°	34.6	42.4	57.7	65.5	80.8	84.7	88.6	92.5	88.6	92.5	92.5
82.5°	26.9	30.8	38.6	38.6	50.0	50.0	53.9	53.9	57.7	57.7	57.7
85°	15.4	26.9	23.1	46.2	30.8	30.8	38.6	46.2	38.6	38.6	46.2
87.5°	15.4	15.4	11.5	15.4	15.4	15.4	19.2	23.1	23.1	26.9	23.1
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: P249187

CATALOG NUMBER: LD8B150D010 ER8B150930 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	7174.4	7174.4	7174.4	7174.4
2.5°	7186.1	7193.7	7182.1	7178.3
5°	7197.5	7197.5	7189.9	7189.9
7.5°	7197.5	7197.5	7186.1	7178.3
10°	7166.7	7166.7	7155.2	7147.5
12.5°	7108.9	7108.9	7105.1	7093.6
15°	7035.8	7035.8	7020.4	7008.8
17.5°	6935.6	6943.4	6924.2	6924.2
20°	6827.9	6824.0	6808.6	6800.9
22.5°	6716.2	6708.5	6704.6	6681.5
25°	6596.9	6589.1	6577.5	6566.0
27.5°	6392.7	6388.8	6377.3	6361.9
30°	6080.8	6076.8	6061.5	6061.5
32.5°	5676.4	5672.5	5657.1	5661.0
35°	5256.6	5272.1	5264.3	5249.0
37.5°	4906.2	4917.7	4925.4	4917.7
40°	4613.5	4648.2	4652.0	4659.8
42.5°	4301.6	4347.8	4363.3	4370.9
45°	3928.0	3970.4	4005.1	3997.4
47.5°	3546.7	3577.6	3608.4	3585.3
50°	3180.9	3200.1	3211.8	3211.8
52.5°	2834.3	2834.3	2830.5	2834.3
55°	2437.7	2437.7	2422.4	2430.0
57.5°	2021.7	2029.5	2017.9	1998.6
60°	1636.7	1617.4	1609.6	1598.2
62.5°	1274.7	1274.7	1247.8	1282.3
65°	955.1	943.5	931.9	928.1
67.5°	693.1	689.4	677.8	673.9
70°	489.1	473.7	469.8	462.1
72.5°	327.3	327.3	319.6	319.6
75°	200.2	181.0	177.1	181.0
77.5°	138.6	134.7	134.7	130.9
80°	92.5	88.6	96.3	84.7
82.5°	57.7	61.7	57.7	61.7
85°	38.6	46.2	42.4	42.4
87.5°	23.1	23.1	23.1	23.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)