

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: FAIL-SAFE

Report Number: P226073

Luminaire Tested: **FW-LD2-126-750-40-PC-R4-LGW**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P226073  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-064-7)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FW-LD2-126-750-40-PC-R4-LGW  
Description: NIGHT CONDOR LED FLOODLIGHT  
Light Source: (56) 4000 CCT, 80 CRI LEDS  
ELO89N028E840M  
Ballast/Driver: OSRAM  
OT25WPRG1250C

**Summary**

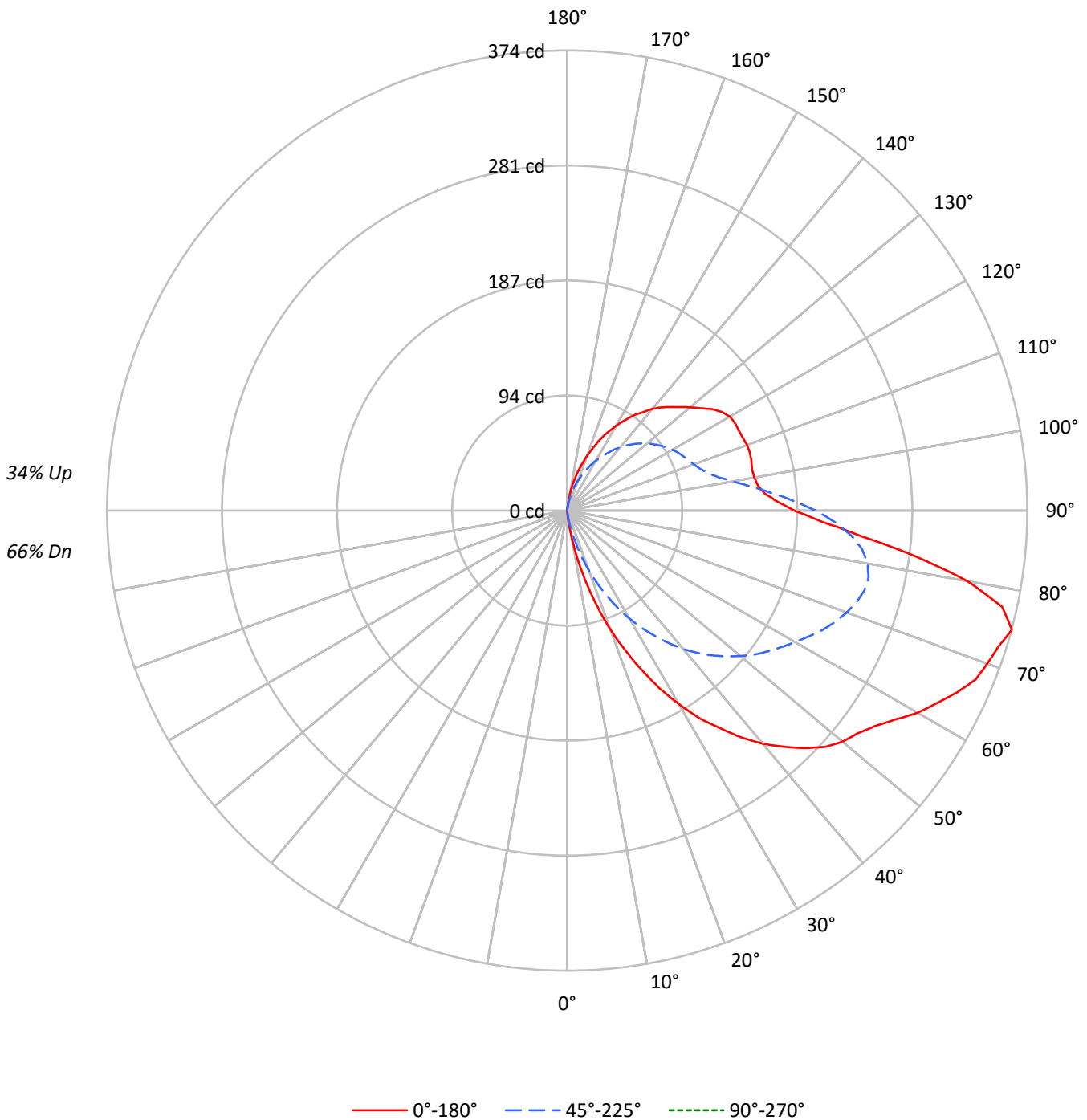
Lumens per Lamp: N/A  
Luminaire Lumens: 762.0 lumens  
Efficiency: N/A  
Efficacy: 72.6 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: (L: 0 ' x W: 1 ' x H: 0.5 '  
CIE Type: Semi-Direct

Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (Ain): 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

TEST NUMBER: P226073

CATALOG NUMBER: FW-LD2-126-750-40-PC-R4-LGW

### 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	111	111	111	111	105	105	105	105	92	92	92		81	81	81		71	71	71	66
1	94	87	80	74	88	81	75	70	70	66	61		61	57	53		52	49	46	41
2	83	71	62	54	77	66	58	51	57	50	45		49	43	38		41	37	33	28
3	74	60	50	41	68	56	46	39	48	40	34		40	34	29		34	29	24	20
4	66	52	41	33	61	48	38	31	41	33	27		34	28	23		28	23	19	15
5	60	45	34	27	55	42	32	25	36	28	22		30	23	18		25	19	15	12
6	55	40	29	22	50	37	27	21	31	24	18		26	20	15		22	16	12	9
7	50	35	25	19	46	33	24	17	28	20	15		24	17	12		20	14	10	7
8	46	32	22	16	43	29	21	15	25	18	13		21	15	11		18	12	9	6
9	43	28	20	14	40	27	18	13	23	16	11		19	13	9		16	11	7	5
10	40	26	17	12	37	24	16	11	21	14	9		18	12	8		15	10	6	4

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

	0°	90°	180°
0°	Luminous shape not found,		
5°	reference photometric report, or contact		
10°	the photometric lab for calculations.		
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



TEST NUMBER: P226073

CATALOG NUMBER: FW-LD2-126-750-40-PC-R4-LGW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	0.2	0.0
10°-20°	4.5	0.6
20°-30°	17.1	2.2
30°-40°	36.2	4.7
40°-50°	57.8	7.6
50°-60°	78.8	10.3
60°-70°	99.9	13.1
70°-80°	114.1	15.0
80°-90°	97.1	12.7
90°-100°	67.6	8.9
100°-110°	52.8	6.9
110°-120°	45.6	6.0
120°-130°	36.9	4.8
130°-140°	26.4	3.5
140°-150°	16.5	2.2
150°-160°	8.1	1.1
160°-170°	2.4	0.3
170°-180°	0.1	0.0
0°-30°	21.7	2.9
0°-40°	57.9	7.6
0°-60°	194.6	25.5
0°-90°	505.6	66.4
90°-120°	166.0	21.8
90°-150°	245.8	32.3
90°-180°	256.0	33.6
0°-180°	762.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	0	0	0	0	0	
5°	2	1	0	0	0	1
15°	61	28	0	0	0	19
25°	142	76	0	0	0	67
35°	216	124	0	0	0	136
45°	273	166	0	0	0	211
55°	305	199	0	0	0	276
65°	350	229	0	0	0	346
75°	374	250	0	0	0	384
85°	240	232	0	0	0	216
90°	184	202	0	0	0	102
95°	161	166	0	0	0	131
105°	155	118	0	0	0	164
115°	154	104	0	0	0	153
125°	144	92	0	0	0	128
135°	119	77	0	0	0	92
145°	95	57	0	0	0	59
155°	64	36	0	0	0	30
165°	31	17	0	0	0	9
175°	1	1	0	0	0	1
180°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0
5°	1.8	2.4	1.8	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.0
7.5°	10.2	10.2	9.6	7.2	4.8	2.4	1.2	0.6	0.6	0.6	0.0
10°	25.1	24.5	23.3	19.2	14.4	8.4	3.6	1.2	0.6	0.6	0.0
12.5°	43.1	41.9	38.9	34.1	26.3	17.4	9.0	2.4	0.6	0.6	0.0
15°	61.1	61.7	56.9	49.7	39.5	27.5	16.2	5.4	0.6	0.6	0.0
17.5°	82.0	81.4	76.6	67.1	54.5	39.5	23.9	10.2	1.2	0.6	0.0
20°	103.0	102.4	96.4	84.4	69.4	51.5	32.3	14.4	2.4	0.6	0.0
22.5°	122.1	122.1	114.9	102.4	84.4	64.1	41.3	19.8	4.2	0.6	0.0
25°	142.5	142.5	133.5	119.1	99.4	76.0	50.9	25.1	6.0	0.6	0.0
27.5°	162.8	161.0	151.5	135.3	114.4	89.2	60.5	31.1	7.8	0.6	0.0
30°	181.4	180.2	169.4	151.5	128.7	101.2	69.4	37.1	10.2	0.6	0.0
32.5°	200.0	198.2	186.8	167.6	142.5	113.2	78.4	43.1	12.6	0.6	0.0
35°	215.5	214.9	203.6	182.6	156.3	124.5	87.4	47.9	15.0	0.6	0.0
37.5°	232.3	230.5	217.9	196.4	169.4	135.9	95.8	52.7	17.4	0.6	0.0
40°	247.3	245.5	232.3	210.7	182.6	146.7	103.0	58.1	19.2	0.6	0.0
42.5°	260.4	258.6	245.5	222.7	194.6	156.9	110.2	62.3	21.6	0.6	0.0
45°	273.0	271.2	257.4	235.3	205.9	166.4	117.3	66.5	23.3	0.6	0.0
47.5°	284.4	282.0	268.8	246.1	216.7	175.4	123.9	70.6	25.1	0.6	0.0
50°	292.2	290.4	279.0	256.8	226.3	183.8	130.5	74.8	27.5	1.2	0.0
52.5°	297.5	296.4	287.4	267.0	235.9	192.2	136.5	78.4	29.3	1.2	0.0
55°	305.3	304.7	295.2	276.6	244.9	199.4	141.9	82.6	31.1	1.2	0.0
57.5°	316.1	314.9	304.7	286.2	253.8	206.5	147.3	86.2	32.9	1.8	0.0
60°	328.7	326.9	315.5	295.2	262.8	213.7	153.3	89.8	34.7	2.4	0.0
62.5°	338.9	337.1	326.9	305.3	272.4	221.5	158.7	93.4	36.5	2.4	0.0
65°	349.6	347.2	336.5	316.1	281.4	229.3	164.0	97.6	38.3	3.0	0.0
67.5°	359.2	357.4	347.2	326.3	290.4	235.9	169.4	100.6	40.1	3.0	0.0
70°	363.4	362.8	355.6	335.3	297.5	241.9	174.2	104.2	41.3	3.6	0.0
72.5°	367.6	367.0	361.0	341.3	303.5	246.7	178.4	106.6	42.5	4.2	0.0
75°	374.2	371.8	361.6	342.5	306.5	250.3	180.8	108.4	43.7	4.2	0.0
77.5°	362.2	362.8	354.4	338.3	305.3	250.9	182.6	109.6	44.3	4.2	0.0
80°	330.5	330.5	334.1	325.7	298.7	247.9	181.4	109.0	44.3	4.8	0.0
82.5°	285.6	285.6	300.5	305.3	286.8	241.9	177.8	107.2	43.7	4.8	0.0
85°	240.1	243.7	261.6	277.8	268.8	231.7	171.8	104.2	42.5	4.8	0.0
87.5°	207.1	207.7	224.5	247.3	247.9	217.9	163.4	100.0	41.3	4.8	0.0
90°	184.4	185.0	198.2	217.9	225.1	201.8	153.3	94.6	39.5	4.8	0.0
92.5°	170.6	170.6	178.4	192.8	200.6	183.8	141.3	88.6	37.1	4.8	0.0
95°	161.0	161.6	165.8	174.8	180.2	166.4	129.9	82.0	35.3	4.2	0.0
97.5°	156.3	156.9	158.7	162.8	162.8	150.3	118.5	75.4	32.9	4.2	0.0
100°	154.5	153.9	154.5	154.5	150.9	136.5	108.4	70.0	30.5	4.2	0.0
102.5°	153.9	153.9	152.7	149.1	141.9	125.7	99.4	64.7	28.7	3.6	0.0
105°	155.1	154.5	152.1	146.1	135.9	117.9	92.8	61.1	27.5	3.6	0.0
107.5°	155.7	155.1	151.5	143.7	131.7	113.2	88.0	58.1	26.3	3.6	0.0
110°	155.7	155.1	150.9	142.5	128.7	109.6	84.4	55.7	25.1	3.6	0.0



TEST NUMBER: P226073

CATALOG NUMBER: FW-LD2-126-750-40-PC-R4-LGW

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	154.5	153.9	149.7	141.3	126.9	106.6	82.0	53.9	24.5	3.0	0.0
115°	153.9	153.3	149.1	139.5	124.5	104.2	79.6	52.1	23.3	3.0	0.0
117.5°	153.9	153.3	147.9	137.1	122.1	101.8	77.2	50.3	22.2	3.0	0.0
120°	152.7	152.1	145.5	134.1	119.1	98.8	74.8	47.9	21.6	3.0	0.0
122.5°	149.1	147.9	141.3	129.9	114.9	95.8	71.8	46.1	20.4	3.0	0.0
125°	143.7	142.5	135.9	125.7	110.8	92.2	69.4	43.7	19.8	2.4	0.0
127.5°	136.5	135.9	129.9	120.3	107.2	88.6	66.5	41.9	18.6	2.4	0.0
130°	130.5	129.3	124.5	114.4	101.8	85.0	63.5	39.5	17.4	2.4	0.0
132.5°	124.5	123.3	118.5	109.6	97.0	80.8	59.9	37.1	16.2	2.4	0.0
135°	119.1	118.5	113.2	103.6	92.2	76.6	56.9	34.7	15.0	1.8	0.0
137.5°	113.8	113.2	107.2	98.2	86.8	71.8	53.3	32.3	14.4	1.8	0.0
140°	107.8	106.6	101.8	92.8	81.4	67.1	49.7	30.5	13.2	1.8	0.0
142.5°	100.6	100.6	95.2	86.2	75.4	62.3	46.1	28.1	12.0	1.2	0.0
145°	94.6	94.0	88.6	80.2	69.4	56.9	41.9	25.7	11.4	1.2	0.0
147.5°	86.8	86.2	82.0	73.6	64.1	52.1	38.3	23.3	10.2	1.2	0.0
150°	79.6	79.0	74.8	67.1	58.1	46.7	34.1	21.0	9.0	1.2	0.0
152.5°	71.8	71.2	67.7	60.5	52.1	41.9	29.9	18.6	7.8	0.6	0.0
155°	64.1	63.5	59.9	53.9	46.1	36.5	26.3	16.2	7.2	0.6	0.0
157.5°	55.1	55.1	52.1	46.7	39.5	31.1	22.8	13.8	6.0	0.6	0.0
160°	47.3	46.7	44.3	39.5	33.5	26.3	19.2	11.4	4.2	0.6	0.0
162.5°	38.9	38.9	37.1	32.9	27.5	21.6	15.6	8.4	3.0	0.6	0.0
165°	31.1	30.5	29.3	25.7	22.2	16.8	10.8	5.4	1.8	0.6	0.0
167.5°	23.3	23.3	22.2	19.8	16.2	10.8	6.6	3.6	1.2	0.6	0.0
170°	16.2	16.2	15.0	11.4	7.8	5.4	3.6	1.8	0.6	0.6	0.0
172.5°	6.0	6.0	5.4	3.6	3.0	2.4	1.8	0.6	0.6	0.6	0.0
175°	0.6	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.0
177.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.0
180°	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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CATALOG NUMBER: FW-LD2-126-750-40-PC-R4-LGW

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P226073

CATALOG NUMBER: FW-LD2-126-750-40-PC-R4-LGW

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)