

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: P226074

Luminaire Tested: **FW-LD2-126-750-50-PC-R4-LGW**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P226074  
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-LD2-126-750-50-PC-R4-LGW  
Description: NIGHT CONDOR LED FLOODLIGHT  
Light Source: (56) 5000 CCT, 80 CRI LEDS  
                  EL089N028E850M  
Ballast/Driver: OSRAM  
                  OT25WPRG1250C

**Summary**

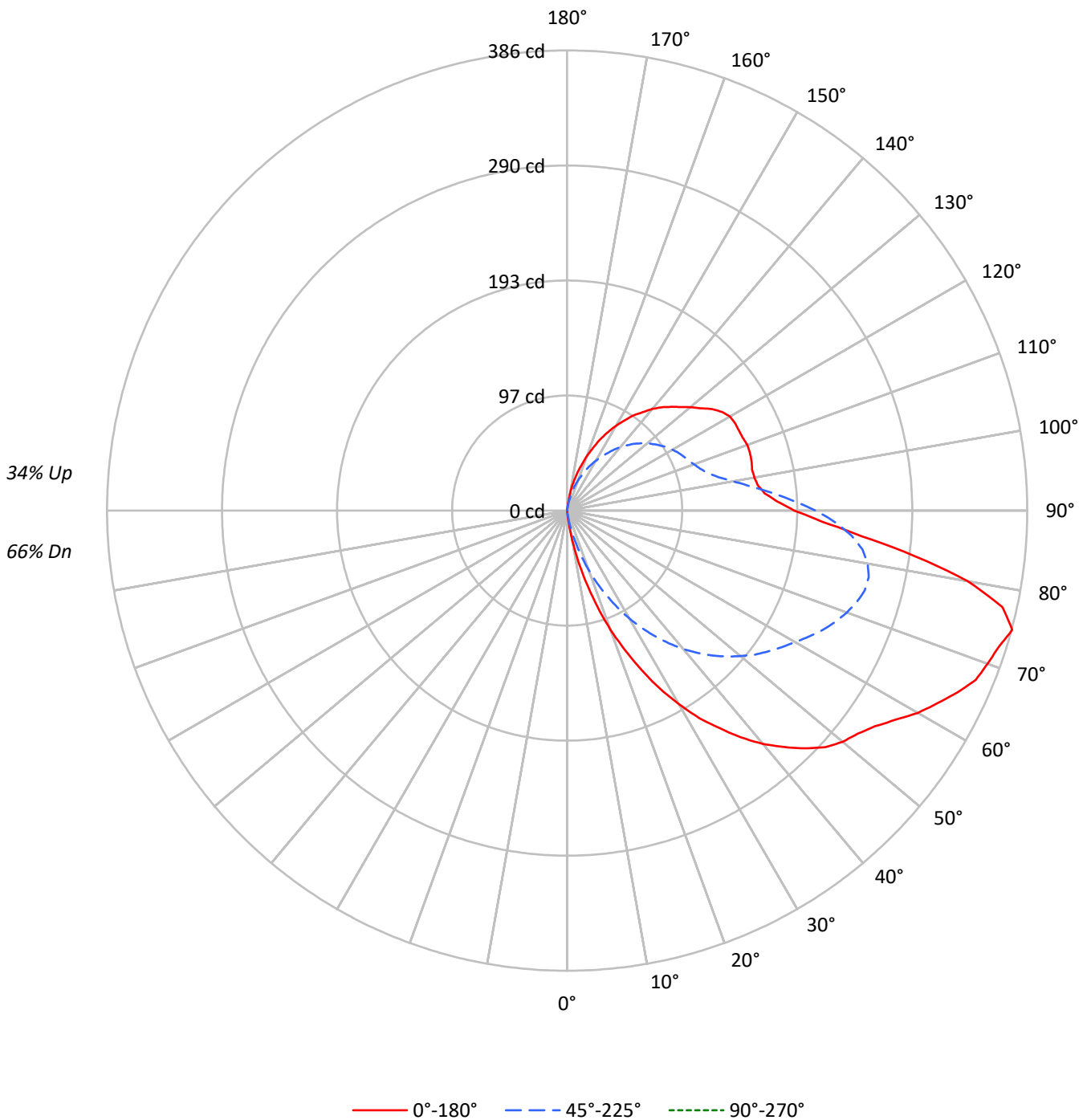
Lumens per Lamp: N/A  
Luminaire Lumens: 787.0 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: (L: 0 ' x W: 1 ' x H: 0.5 '  
CIE Type: Semi-Direct

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

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CATALOG NUMBER: FW-LD2-126-750-50-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°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	0.2	0.0
10°-20°	4.6	0.6
20°-30°	17.6	2.2
30°-40°	37.3	4.7
40°-50°	59.7	7.6
50°-60°	81.4	10.3
60°-70°	103.2	13.1
70°-80°	117.9	15.0
80°-90°	100.2	12.7
90°-100°	69.8	8.9
100°-110°	54.5	6.9
110°-120°	47.1	6.0
120°-130°	38.2	4.8
130°-140°	27.3	3.5
140°-150°	17.0	2.2
150°-160°	8.3	1.1
160°-170°	2.5	0.3
170°-180°	0.1	0.0
0°-30°	22.4	2.9
0°-40°	59.8	7.6
0°-60°	200.9	25.5
0°-90°	522.2	66.4
90°-120°	171.4	21.8
90°-150°	253.8	32.3
90°-180°	265.0	33.7
0°-180°	787.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	0	0	0	0	0	
5°	2	1	0	0	0	1
15°	63	28	0	0	0	19
25°	147	78	0	0	0	69
35°	223	129	0	0	0	141
45°	282	172	0	0	0	218
55°	315	206	0	0	0	285
65°	361	237	0	0	0	357
75°	386	258	0	0	0	396
85°	248	239	0	0	0	223
90°	190	208	0	0	0	106
95°	166	172	0	0	0	135
105°	160	122	0	0	0	169
115°	159	108	0	0	0	158
125°	148	95	0	0	0	132
135°	123	79	0	0	0	96
145°	98	59	0	0	0	61
155°	66	38	0	0	0	31
165°	32	17	0	0	0	10
175°	1	1	0	0	0	1
180°	0	0	0	0	0	



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CATALOG NUMBER: FW-LD2-126-750-50-PC-R4-LGW

**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°	1.9	2.5	1.9	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.0
7.5°	10.5	10.5	9.9	7.4	4.9	2.5	1.2	0.6	0.6	0.6	0.0
10°	26.0	25.4	24.1	19.8	14.8	8.7	3.7	1.2	0.6	0.6	0.0
12.5°	44.5	43.3	40.2	35.2	27.2	17.9	9.3	2.5	0.6	0.6	0.0
15°	63.1	63.7	58.7	51.3	40.8	28.4	16.7	5.6	0.6	0.6	0.0
17.5°	84.7	84.1	79.1	69.3	56.3	40.8	24.7	10.5	1.2	0.6	0.0
20°	106.4	105.7	99.6	87.2	71.7	53.2	33.4	14.8	2.5	0.6	0.0
22.5°	126.1	126.1	118.7	105.7	87.2	66.2	42.7	20.4	4.3	0.6	0.0
25°	147.2	147.2	137.9	123.0	102.6	78.5	52.6	26.0	6.2	0.6	0.0
27.5°	168.2	166.3	156.4	139.7	118.1	92.1	62.5	32.2	8.0	0.6	0.0
30°	187.4	186.1	175.0	156.4	132.9	104.5	71.7	38.3	10.5	0.6	0.0
32.5°	206.5	204.7	192.9	173.1	147.2	116.9	81.0	44.5	13.0	0.6	0.0
35°	222.6	222.0	210.2	188.6	161.4	128.6	90.3	49.5	15.5	0.6	0.0
37.5°	239.9	238.1	225.1	202.8	175.0	140.4	98.9	54.4	17.9	0.6	0.0
40°	255.4	253.5	239.9	217.7	188.6	151.5	106.4	60.0	19.8	0.6	0.0
42.5°	269.0	267.1	253.5	230.0	201.0	162.0	113.8	64.3	22.3	0.6	0.0
45°	282.0	280.1	265.9	243.0	212.7	171.9	121.2	68.6	24.1	0.6	0.0
47.5°	293.7	291.2	277.6	254.1	223.8	181.2	128.0	73.0	26.0	0.6	0.0
50°	301.7	299.9	288.1	265.3	233.7	189.8	134.8	77.3	28.4	1.2	0.0
52.5°	307.3	306.1	296.8	275.8	243.6	198.5	141.0	81.0	30.3	1.2	0.0
55°	315.4	314.7	304.8	285.7	252.9	205.9	146.5	85.3	32.2	1.2	0.0
57.5°	326.5	325.2	314.7	295.6	262.2	213.3	152.1	89.0	34.0	1.9	0.0
60°	339.5	337.6	325.9	304.8	271.4	220.7	158.3	92.8	35.9	2.5	0.0
62.5°	350.0	348.1	337.6	315.4	281.3	228.8	163.9	96.5	37.7	2.5	0.0
65°	361.1	358.6	347.5	326.5	290.6	236.8	169.4	100.8	39.6	3.1	0.0
67.5°	371.0	369.1	358.6	337.0	299.9	243.6	175.0	103.9	41.4	3.1	0.0
70°	375.3	374.7	367.3	346.3	307.3	249.8	179.9	107.6	42.7	3.7	0.0
72.5°	379.7	379.0	372.9	352.5	313.5	254.8	184.3	110.1	43.9	4.3	0.0
75°	386.5	384.0	373.5	353.7	316.6	258.5	186.7	111.9	45.1	4.3	0.0
77.5°	374.1	374.7	366.1	349.4	315.4	259.1	188.6	113.2	45.8	4.3	0.0
80°	341.3	341.3	345.0	336.4	308.5	256.0	187.4	112.5	45.8	4.9	0.0
82.5°	294.9	294.9	310.4	315.4	296.2	249.8	183.6	110.7	45.1	4.9	0.0
85°	248.0	251.7	270.2	286.9	277.6	239.3	177.5	107.6	43.9	4.9	0.0
87.5°	213.9	214.6	231.9	255.4	256.0	225.1	168.8	103.3	42.7	4.9	0.0
90°	190.4	191.1	204.7	225.1	232.5	208.4	158.3	97.7	40.8	4.9	0.0
92.5°	176.2	176.2	184.3	199.1	207.1	189.8	145.9	91.5	38.3	4.9	0.0
95°	166.3	167.0	171.3	180.6	186.1	171.9	134.2	84.7	36.5	4.3	0.0
97.5°	161.4	162.0	163.9	168.2	168.2	155.2	122.4	77.9	34.0	4.3	0.0
100°	159.5	158.9	159.5	159.5	155.8	141.0	111.9	72.3	31.5	4.3	0.0
102.5°	158.9	158.9	157.7	154.0	146.5	129.9	102.6	66.8	29.7	3.7	0.0
105°	160.1	159.5	157.1	150.9	140.4	121.8	95.8	63.1	28.4	3.7	0.0
107.5°	160.8	160.1	156.4	148.4	136.0	116.9	90.9	60.0	27.2	3.7	0.0
110°	160.8	160.1	155.8	147.2	132.9	113.2	87.2	57.5	26.0	3.7	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	159.5	158.9	154.6	145.9	131.1	110.1	84.7	55.7	25.4	3.1	0.0
115°	158.9	158.3	154.0	144.1	128.6	107.6	82.2	53.8	24.1	3.1	0.0
117.5°	158.9	158.3	152.7	141.6	126.1	105.1	79.8	51.9	22.9	3.1	0.0
120°	157.7	157.1	150.3	138.5	123.0	102.0	77.3	49.5	22.3	3.1	0.0
122.5°	154.0	152.7	145.9	134.2	118.7	98.9	74.2	47.6	21.0	3.1	0.0
125°	148.4	147.2	140.4	129.9	114.4	95.2	71.7	45.1	20.4	2.5	0.0
127.5°	141.0	140.4	134.2	124.3	110.7	91.5	68.6	43.3	19.2	2.5	0.0
130°	134.8	133.6	128.6	118.1	105.1	87.8	65.5	40.8	17.9	2.5	0.0
132.5°	128.6	127.4	122.4	113.2	100.2	83.5	61.8	38.3	16.7	2.5	0.0
135°	123.0	122.4	116.9	107.0	95.2	79.1	58.7	35.9	15.5	1.9	0.0
137.5°	117.5	116.9	110.7	101.4	89.7	74.2	55.0	33.4	14.8	1.9	0.0
140°	111.3	110.1	105.1	95.8	84.1	69.3	51.3	31.5	13.6	1.9	0.0
142.5°	103.9	103.9	98.3	89.0	77.9	64.3	47.6	29.1	12.4	1.2	0.0
145°	97.7	97.1	91.5	82.9	71.7	58.7	43.3	26.6	11.7	1.2	0.0
147.5°	89.7	89.0	84.7	76.1	66.2	53.8	39.6	24.1	10.5	1.2	0.0
150°	82.2	81.6	77.3	69.3	60.0	48.2	35.2	21.6	9.3	1.2	0.0
152.5°	74.2	73.6	69.9	62.5	53.8	43.3	30.9	19.2	8.0	0.6	0.0
155°	66.2	65.5	61.8	55.7	47.6	37.7	27.2	16.7	7.4	0.6	0.0
157.5°	56.9	56.9	53.8	48.2	40.8	32.2	23.5	14.2	6.2	0.6	0.0
160°	48.8	48.2	45.8	40.8	34.6	27.2	19.8	11.7	4.3	0.6	0.0
162.5°	40.2	40.2	38.3	34.0	28.4	22.3	16.1	8.7	3.1	0.6	0.0
165°	32.2	31.5	30.3	26.6	22.9	17.3	11.1	5.6	1.9	0.6	0.0
167.5°	24.1	24.1	22.9	20.4	16.7	11.1	6.8	3.7	1.2	0.6	0.0
170°	16.7	16.7	15.5	11.7	8.0	5.6	3.7	1.9	0.6	0.6	0.0
172.5°	6.2	6.2	5.6	3.7	3.1	2.5	1.9	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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**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: P226074

CATALOG NUMBER: FW-LD2-126-750-50-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)