

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: P226079

Luminaire Tested: **FW-LD2-126-1250-40-PC-R4-LGW**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P226079  
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-LD2-126-1250-40-PC-R4-LGW  
Description: NIGHT CONDOR LED FLOODLIGHT  
Light Source: (56) 4000 CCT, 80 CRI LEDS  
ELO89N028E840M  
Ballast/Driver: OSRAM  
OT25WPRG1250C

**Summary**

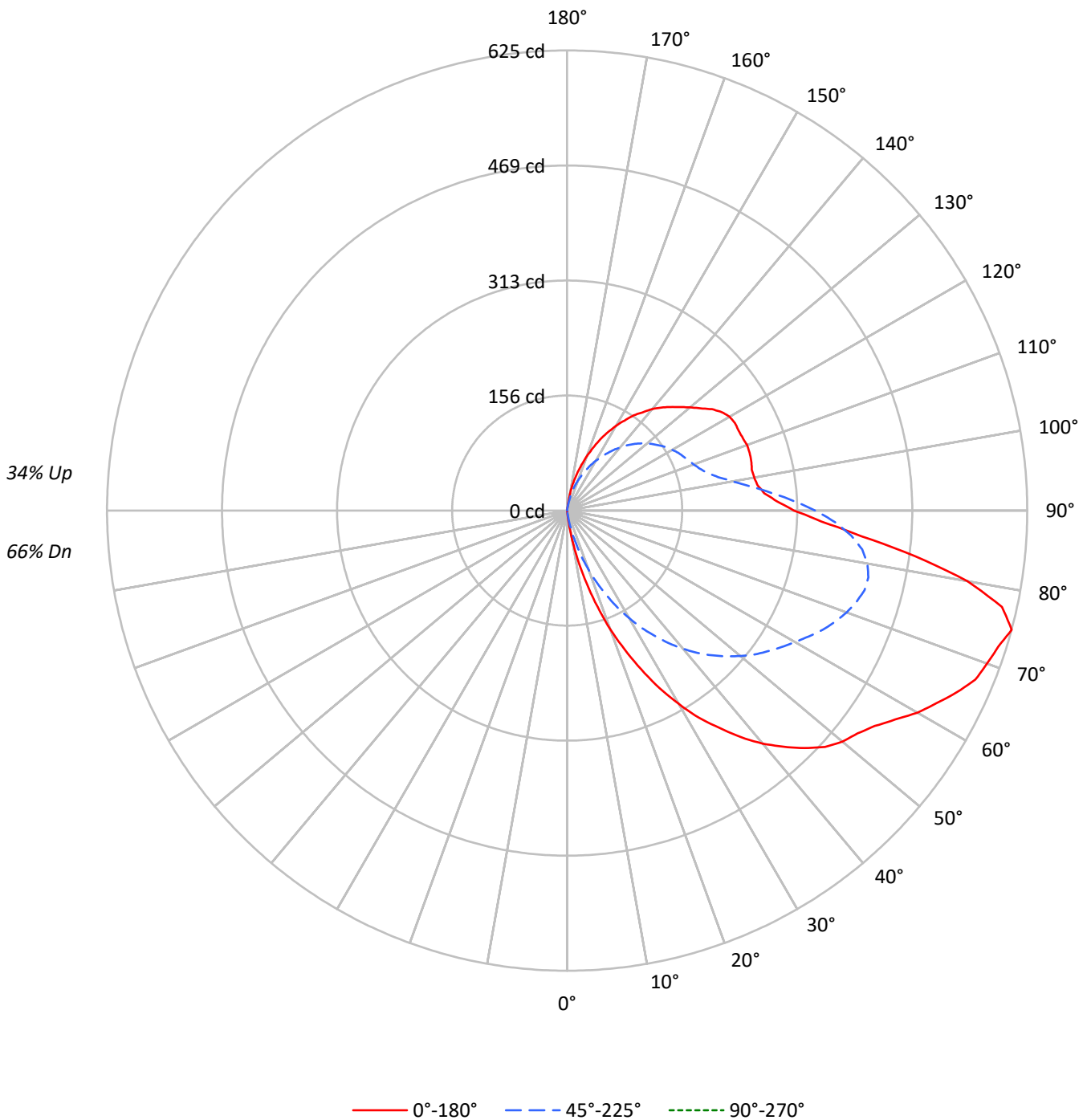
Lumens per Lamp: N/A  
Luminaire Lumens: 1272.9 lumens  
Efficiency: N/A  
Efficacy: 72.7 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: (L: 0 ' x W: 1 ' x H: 0.5 '  
CIE Type: Semi-Direct

Input Watts (W): 17.5  
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-LD2-126-1250-40-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°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	0.3	0.0
10°-20°	7.4	0.6
20°-30°	28.5	2.2
30°-40°	60.4	4.7
40°-50°	96.6	7.6
50°-60°	131.7	10.3
60°-70°	166.9	13.1
70°-80°	190.6	15.0
80°-90°	162.1	12.7
90°-100°	112.9	8.9
100°-110°	88.1	6.9
110°-120°	76.2	6.0
120°-130°	61.7	4.8
130°-140°	44.1	3.5
140°-150°	27.5	2.2
150°-160°	13.5	1.1
160°-170°	4.0	0.3
170°-180°	0.2	0.0
0°-30°	36.3	2.9
0°-40°	96.7	7.6
0°-60°	325.0	25.5
0°-90°	844.7	66.4
90°-120°	277.2	21.8
90°-150°	410.5	32.2
90°-180°	428.0	33.6
0°-180°	1272.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	0	0	0	0	0	
5°	3	1	0	0	0	2
15°	102	46	0	0	0	31
25°	238	127	0	0	0	112
35°	360	208	0	0	0	228
45°	456	278	0	0	0	353
55°	510	333	0	0	0	461
65°	584	383	0	0	0	578
75°	625	418	0	0	0	641
85°	401	387	0	0	0	361
90°	308	337	0	0	0	171
95°	269	278	0	0	0	218
105°	259	197	0	0	0	274
115°	257	174	0	0	0	255
125°	240	154	0	0	0	214
135°	199	128	0	0	0	155
145°	158	95	0	0	0	99
155°	107	61	0	0	0	50
165°	52	28	0	0	0	16
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°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0
5°	3.0	4.0	3.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	0.0
7.5°	17.0	17.0	16.0	12.0	8.0	4.0	2.0	1.0	1.0	1.0	0.0
10°	42.0	41.0	39.0	32.0	24.0	14.0	6.0	2.0	1.0	1.0	0.0
12.5°	72.0	70.0	65.0	57.0	44.0	29.0	15.0	4.0	1.0	1.0	0.0
15°	102.0	103.0	95.0	83.0	66.0	46.0	27.0	9.0	1.0	1.0	0.0
17.5°	137.0	136.0	128.0	112.0	91.0	66.0	40.0	17.0	2.0	1.0	0.0
20°	172.0	171.0	161.0	141.0	116.0	86.0	54.0	24.0	4.0	1.0	0.0
22.5°	204.0	204.0	192.0	171.0	141.0	107.0	69.0	33.0	7.0	1.0	0.0
25°	238.0	238.0	223.0	199.0	166.0	127.0	85.0	42.0	10.0	1.0	0.0
27.5°	272.0	269.0	253.0	226.0	191.0	149.0	101.0	52.0	13.0	1.0	0.0
30°	303.1	301.1	283.0	253.0	215.0	169.0	116.0	62.0	17.0	1.0	0.0
32.5°	334.1	331.1	312.1	280.0	238.0	189.0	131.0	72.0	21.0	1.0	0.0
35°	360.1	359.1	340.1	305.1	261.0	208.0	146.0	80.0	25.0	1.0	0.0
37.5°	388.1	385.1	364.1	328.1	283.0	227.0	160.0	88.0	29.0	1.0	0.0
40°	413.1	410.1	388.1	352.1	305.1	245.0	172.0	97.0	32.0	1.0	0.0
42.5°	435.1	432.1	410.1	372.1	325.1	262.0	184.0	104.0	36.0	1.0	0.0
45°	456.1	453.1	430.1	393.1	344.1	278.0	196.0	111.0	39.0	1.0	0.0
47.5°	475.1	471.1	449.1	411.1	362.1	293.1	207.0	118.0	42.0	1.0	0.0
50°	488.1	485.1	466.1	429.1	378.1	307.1	218.0	125.0	46.0	2.0	0.0
52.5°	497.1	495.1	480.1	446.1	394.1	321.1	228.0	131.0	49.0	2.0	0.0
55°	510.1	509.1	493.1	462.1	409.1	333.1	237.0	138.0	52.0	2.0	0.0
57.5°	528.1	526.1	509.1	478.1	424.1	345.1	246.0	144.0	55.0	3.0	0.0
60°	549.1	546.1	527.1	493.1	439.1	357.1	256.0	150.0	58.0	4.0	0.0
62.5°	566.1	563.1	546.1	510.1	455.1	370.1	265.0	156.0	61.0	4.0	0.0
65°	584.1	580.1	562.1	528.1	470.1	383.1	274.0	163.0	64.0	5.0	0.0
67.5°	600.1	597.1	580.1	545.1	485.1	394.1	283.0	168.0	67.0	5.0	0.0
70°	607.1	606.1	594.1	560.1	497.1	404.1	291.1	174.0	69.0	6.0	0.0
72.5°	614.1	613.1	603.1	570.1	507.1	412.1	298.1	178.0	71.0	7.0	0.0
75°	625.1	621.1	604.1	572.1	512.1	418.1	302.1	181.0	73.0	7.0	0.0
77.5°	605.1	606.1	592.1	565.1	510.1	419.1	305.1	183.0	74.0	7.0	0.0
80°	552.1	552.1	558.1	544.1	499.1	414.1	303.1	182.0	74.0	8.0	0.0
82.5°	477.1	477.1	502.1	510.1	479.1	404.1	297.1	179.0	73.0	8.0	0.0
85°	401.1	407.1	437.1	464.1	449.1	387.1	287.1	174.0	71.0	8.0	0.0
87.5°	346.1	347.1	375.1	413.1	414.1	364.1	273.0	167.0	69.0	8.0	0.0
90°	308.1	309.1	331.1	364.1	376.1	337.1	256.0	158.0	66.0	8.0	0.0
92.5°	285.1	285.1	298.1	322.1	335.1	307.1	236.0	148.0	62.0	8.0	0.0
95°	269.0	270.0	277.0	292.1	301.1	278.0	217.0	137.0	59.0	7.0	0.0
97.5°	261.0	262.0	265.0	272.0	272.0	251.0	198.0	126.0	55.0	7.0	0.0
100°	258.0	257.0	258.0	258.0	252.0	228.0	181.0	117.0	51.0	7.0	0.0
102.5°	257.0	257.0	255.0	249.0	237.0	210.0	166.0	108.0	48.0	6.0	0.0
105°	259.0	258.0	254.0	244.0	227.0	197.0	155.0	102.0	46.0	6.0	0.0
107.5°	260.0	259.0	253.0	240.0	220.0	189.0	147.0	97.0	44.0	6.0	0.0
110°	260.0	259.0	252.0	238.0	215.0	183.0	141.0	93.0	42.0	6.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	258.0	257.0	250.0	236.0	212.0	178.0	137.0	90.0	41.0	5.0	0.0
115°	257.0	256.0	249.0	233.0	208.0	174.0	133.0	87.0	39.0	5.0	0.0
117.5°	257.0	256.0	247.0	229.0	204.0	170.0	129.0	84.0	37.0	5.0	0.0
120°	255.0	254.0	243.0	224.0	199.0	165.0	125.0	80.0	36.0	5.0	0.0
122.5°	249.0	247.0	236.0	217.0	192.0	160.0	120.0	77.0	34.0	5.0	0.0
125°	240.0	238.0	227.0	210.0	185.0	154.0	116.0	73.0	33.0	4.0	0.0
127.5°	228.0	227.0	217.0	201.0	179.0	148.0	111.0	70.0	31.0	4.0	0.0
130°	218.0	216.0	208.0	191.0	170.0	142.0	106.0	66.0	29.0	4.0	0.0
132.5°	208.0	206.0	198.0	183.0	162.0	135.0	100.0	62.0	27.0	4.0	0.0
135°	199.0	198.0	189.0	173.0	154.0	128.0	95.0	58.0	25.0	3.0	0.0
137.5°	190.0	189.0	179.0	164.0	145.0	120.0	89.0	54.0	24.0	3.0	0.0
140°	180.0	178.0	170.0	155.0	136.0	112.0	83.0	51.0	22.0	3.0	0.0
142.5°	168.0	168.0	159.0	144.0	126.0	104.0	77.0	47.0	20.0	2.0	0.0
145°	158.0	157.0	148.0	134.0	116.0	95.0	70.0	43.0	19.0	2.0	0.0
147.5°	145.0	144.0	137.0	123.0	107.0	87.0	64.0	39.0	17.0	2.0	0.0
150°	133.0	132.0	125.0	112.0	97.0	78.0	57.0	35.0	15.0	2.0	0.0
152.5°	120.0	119.0	113.0	101.0	87.0	70.0	50.0	31.0	13.0	1.0	0.0
155°	107.0	106.0	100.0	90.0	77.0	61.0	44.0	27.0	12.0	1.0	0.0
157.5°	92.0	92.0	87.0	78.0	66.0	52.0	38.0	23.0	10.0	1.0	0.0
160°	79.0	78.0	74.0	66.0	56.0	44.0	32.0	19.0	7.0	1.0	0.0
162.5°	65.0	65.0	62.0	55.0	46.0	36.0	26.0	14.0	5.0	1.0	0.0
165°	52.0	51.0	49.0	43.0	37.0	28.0	18.0	9.0	3.0	1.0	0.0
167.5°	39.0	39.0	37.0	33.0	27.0	18.0	11.0	6.0	2.0	1.0	0.0
170°	27.0	27.0	25.0	19.0	13.0	9.0	6.0	3.0	1.0	1.0	0.0
172.5°	10.0	10.0	9.0	6.0	5.0	4.0	3.0	1.0	1.0	1.0	0.0
175°	1.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	0.0
177.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	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



TEST NUMBER: P226079

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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: P226079

CATALOG NUMBER: FW-LD2-126-1250-40-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)