

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: P226072

Luminaire Tested: **FW-LD2-126-750-35-PC-R4-LGW**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P226072  
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-LD2-126-750-35-PC-R4-LGW  
Description: NIGHT CONDOR LED FLOODLIGHT  
Light Source: (56) 3500 CCT, 80 CRI LEDS  
                  EL089N028E835M  
Ballast/Driver: OSRAM  
                  OT25WPRG1250C

**Summary**

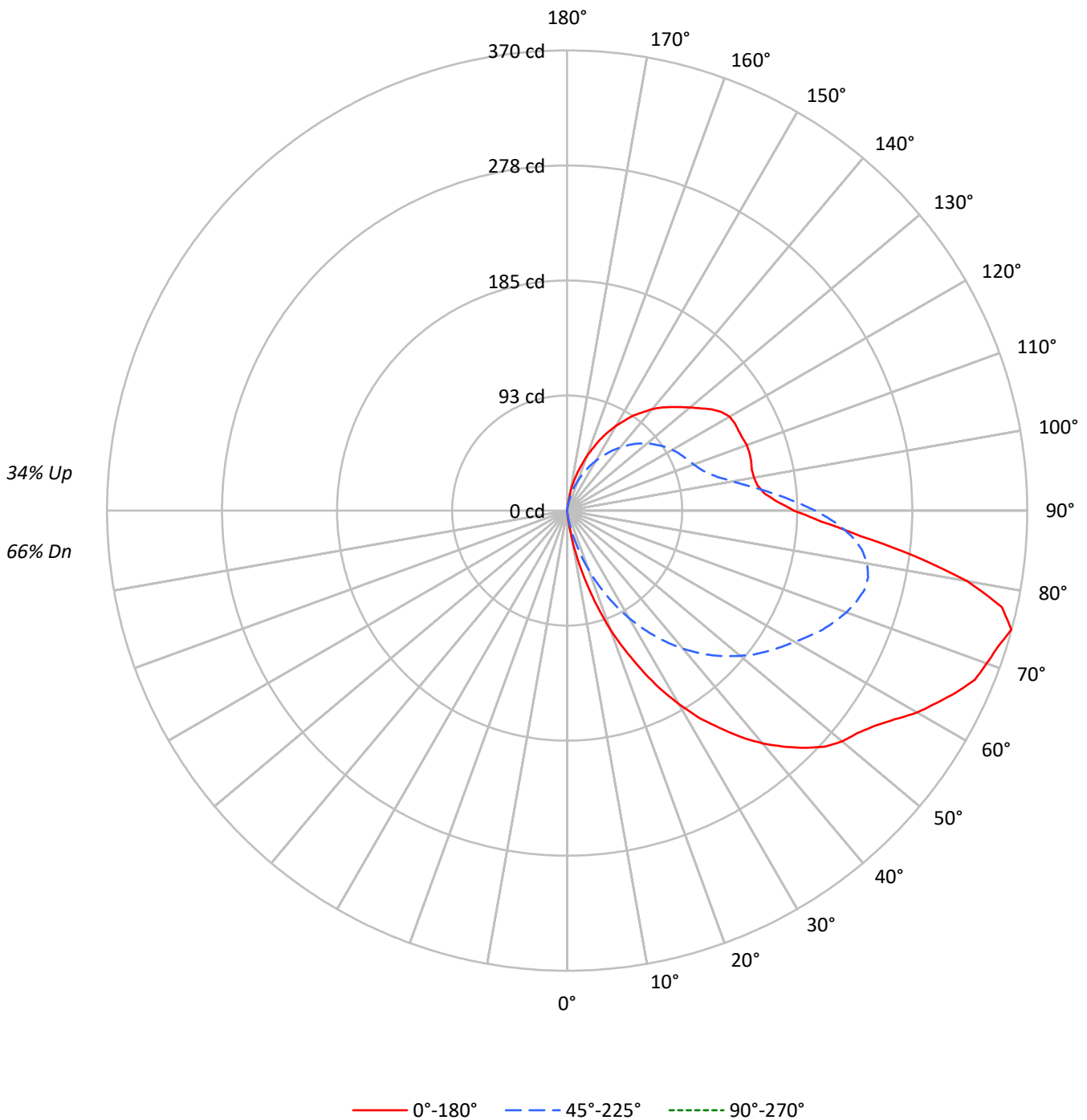
Lumens per Lamp: N/A  
Luminaire Lumens: 753.0 lumens  
Efficiency: N/A  
Efficacy: 71.7 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: (L: 0 ' x W: 1 ' x H: 0.5 '  
CIE Type: Semi-Direct

Input Watts (W): 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-LD2-126-750-35-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°	4.4	0.6
20°-30°	16.9	2.2
30°-40°	35.7	4.7
40°-50°	57.2	7.6
50°-60°	77.9	10.3
60°-70°	98.7	13.1
70°-80°	112.8	15.0
80°-90°	95.9	12.7
90°-100°	66.8	8.9
100°-110°	52.1	6.9
110°-120°	45.1	6.0
120°-130°	36.5	4.8
130°-140°	26.1	3.5
140°-150°	16.3	2.2
150°-160°	8.0	1.1
160°-170°	2.4	0.3
170°-180°	0.1	0.0
0°-30°	21.5	2.9
0°-40°	57.2	7.6
0°-60°	192.3	25.5
0°-90°	499.7	66.4
90°-120°	164.0	21.8
90°-150°	242.9	32.3
90°-180°	253.0	33.6
0°-180°	753.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	0	0	0	0	0	
5°	2	1	0	0	0	1
15°	60	27	0	0	0	19
25°	141	75	0	0	0	66
35°	213	123	0	0	0	135
45°	270	164	0	0	0	209
55°	302	197	0	0	0	273
65°	346	227	0	0	0	342
75°	370	247	0	0	0	379
85°	237	229	0	0	0	214
90°	182	199	0	0	0	101
95°	159	164	0	0	0	129
105°	153	116	0	0	0	162
115°	152	103	0	0	0	151
125°	142	91	0	0	0	127
135°	118	76	0	0	0	91
145°	94	56	0	0	0	59
155°	63	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°	10.1	10.1	9.5	7.1	4.7	2.4	1.2	0.6	0.6	0.6	0.0
10°	24.8	24.3	23.1	18.9	14.2	8.3	3.5	1.2	0.6	0.6	0.0
12.5°	42.6	41.4	38.5	33.7	26.0	17.2	8.9	2.4	0.6	0.6	0.0
15°	60.3	60.9	56.2	49.1	39.0	27.2	16.0	5.3	0.6	0.6	0.0
17.5°	81.1	80.5	75.7	66.3	53.8	39.0	23.7	10.1	1.2	0.6	0.0
20°	101.8	101.2	95.3	83.4	68.6	50.9	31.9	14.2	2.4	0.6	0.0
22.5°	120.7	120.7	113.6	101.2	83.4	63.3	40.8	19.5	4.1	0.6	0.0
25°	140.8	140.8	131.9	117.7	98.2	75.1	50.3	24.8	5.9	0.6	0.0
27.5°	160.9	159.1	149.7	133.7	113.0	88.2	59.8	30.8	7.7	0.6	0.0
30°	179.3	178.1	167.4	149.7	127.2	100.0	68.6	36.7	10.1	0.6	0.0
32.5°	197.6	195.8	184.6	165.7	140.8	111.8	77.5	42.6	12.4	0.6	0.0
35°	213.0	212.4	201.2	180.4	154.4	123.1	86.4	47.3	14.8	0.6	0.0
37.5°	229.5	227.8	215.3	194.1	167.4	134.3	94.7	52.1	17.2	0.6	0.0
40°	244.3	242.6	229.5	208.3	180.4	144.9	101.8	57.4	18.9	0.6	0.0
42.5°	257.4	255.6	242.6	220.1	192.3	155.0	108.9	61.5	21.3	0.6	0.0
45°	269.8	268.0	254.4	232.5	203.5	164.5	116.0	65.7	23.1	0.6	0.0
47.5°	281.0	278.7	265.6	243.2	214.2	173.3	122.5	69.8	24.8	0.6	0.0
50°	288.7	286.9	275.7	253.8	223.6	181.6	129.0	74.0	27.2	1.2	0.0
52.5°	294.0	292.9	284.0	263.9	233.1	189.9	134.9	77.5	29.0	1.2	0.0
55°	301.7	301.1	291.7	273.3	242.0	197.0	140.2	81.6	30.8	1.2	0.0
57.5°	312.4	311.2	301.1	282.8	250.8	204.1	145.5	85.2	32.5	1.8	0.0
60°	324.8	323.0	311.8	291.7	259.7	211.2	151.5	88.7	34.3	2.4	0.0
62.5°	334.9	333.1	323.0	301.7	269.2	218.9	156.8	92.3	36.1	2.4	0.0
65°	345.5	343.1	332.5	312.4	278.1	226.6	162.1	96.4	37.9	3.0	0.0
67.5°	355.0	353.2	343.1	322.4	286.9	233.1	167.4	99.4	39.6	3.0	0.0
70°	359.1	358.5	351.4	331.3	294.0	239.0	172.2	102.9	40.8	3.5	0.0
72.5°	363.3	362.7	356.7	337.2	300.0	243.7	176.3	105.3	42.0	4.1	0.0
75°	369.8	367.4	357.3	338.4	302.9	247.3	178.7	107.1	43.2	4.1	0.0
77.5°	357.9	358.5	350.2	334.3	301.7	247.9	180.4	108.3	43.8	4.1	0.0
80°	326.6	326.6	330.1	321.8	295.2	244.9	179.3	107.7	43.8	4.7	0.0
82.5°	282.2	282.2	297.0	301.7	283.4	239.0	175.7	105.9	43.2	4.7	0.0
85°	237.2	240.8	258.5	274.5	265.6	229.0	169.8	102.9	42.0	4.7	0.0
87.5°	204.7	205.3	221.9	244.3	244.9	215.3	161.5	98.8	40.8	4.7	0.0
90°	182.2	182.8	195.8	215.3	222.4	199.4	151.5	93.5	39.0	4.7	0.0
92.5°	168.6	168.6	176.3	190.5	198.2	181.6	139.6	87.6	36.7	4.7	0.0
95°	159.1	159.7	163.9	172.8	178.1	164.5	128.4	81.1	34.9	4.1	0.0
97.5°	154.4	155.0	156.8	160.9	160.9	148.5	117.1	74.5	32.5	4.1	0.0
100°	152.6	152.0	152.6	152.6	149.1	134.9	107.1	69.2	30.2	4.1	0.0
102.5°	152.0	152.0	150.9	147.3	140.2	124.2	98.2	63.9	28.4	3.5	0.0
105°	153.2	152.6	150.3	144.4	134.3	116.5	91.7	60.3	27.2	3.5	0.0
107.5°	153.8	153.2	149.7	142.0	130.2	111.8	87.0	57.4	26.0	3.5	0.0
110°	153.8	153.2	149.1	140.8	127.2	108.3	83.4	55.0	24.8	3.5	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	152.6	152.0	147.9	139.6	125.4	105.3	81.1	53.2	24.3	3.0	0.0
115°	152.0	151.5	147.3	137.8	123.1	102.9	78.7	51.5	23.1	3.0	0.0
117.5°	152.0	151.5	146.1	135.5	120.7	100.6	76.3	49.7	21.9	3.0	0.0
120°	150.9	150.3	143.8	132.5	117.7	97.6	74.0	47.3	21.3	3.0	0.0
122.5°	147.3	146.1	139.6	128.4	113.6	94.7	71.0	45.6	20.1	3.0	0.0
125°	142.0	140.8	134.3	124.2	109.4	91.1	68.6	43.2	19.5	2.4	0.0
127.5°	134.9	134.3	128.4	118.9	105.9	87.6	65.7	41.4	18.3	2.4	0.0
130°	129.0	127.8	123.1	113.0	100.6	84.0	62.7	39.0	17.2	2.4	0.0
132.5°	123.1	121.9	117.1	108.3	95.8	79.9	59.2	36.7	16.0	2.4	0.0
135°	117.7	117.1	111.8	102.4	91.1	75.7	56.2	34.3	14.8	1.8	0.0
137.5°	112.4	111.8	105.9	97.0	85.8	71.0	52.7	31.9	14.2	1.8	0.0
140°	106.5	105.3	100.6	91.7	80.5	66.3	49.1	30.2	13.0	1.8	0.0
142.5°	99.4	99.4	94.1	85.2	74.5	61.5	45.6	27.8	11.8	1.2	0.0
145°	93.5	92.9	87.6	79.3	68.6	56.2	41.4	25.4	11.2	1.2	0.0
147.5°	85.8	85.2	81.1	72.8	63.3	51.5	37.9	23.1	10.1	1.2	0.0
150°	78.7	78.1	74.0	66.3	57.4	46.1	33.7	20.7	8.9	1.2	0.0
152.5°	71.0	70.4	66.9	59.8	51.5	41.4	29.6	18.3	7.7	0.6	0.0
155°	63.3	62.7	59.2	53.2	45.6	36.1	26.0	16.0	7.1	0.6	0.0
157.5°	54.4	54.4	51.5	46.1	39.0	30.8	22.5	13.6	5.9	0.6	0.0
160°	46.7	46.1	43.8	39.0	33.1	26.0	18.9	11.2	4.1	0.6	0.0
162.5°	38.5	38.5	36.7	32.5	27.2	21.3	15.4	8.3	3.0	0.6	0.0
165°	30.8	30.2	29.0	25.4	21.9	16.6	10.6	5.3	1.8	0.6	0.0
167.5°	23.1	23.1	21.9	19.5	16.0	10.6	6.5	3.5	1.2	0.6	0.0
170°	16.0	16.0	14.8	11.2	7.7	5.3	3.5	1.8	0.6	0.6	0.0
172.5°	5.9	5.9	5.3	3.5	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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**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: P226072

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**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)