

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: io LED

Report Number: P273354

Luminaire Tested: **0.03-3W-827-91-ID-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P273354  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-246-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: 0.03-3W-827-91-ID-STD-UNV-AN-3F0  
Description: iO LIGHTING SERIES .75 LINEAR LED LUMINAIRE, 90 DEGREE ASYMMETRIC OPTIC.  
HIGH OUTPUT  
Light Source: 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 286.0 lumens  
Efficiency: N/A  
Efficacy: 22.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.22 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 2.92' x L: 0.04' x H: 0.04')  
CIE Type: Semi-Direct

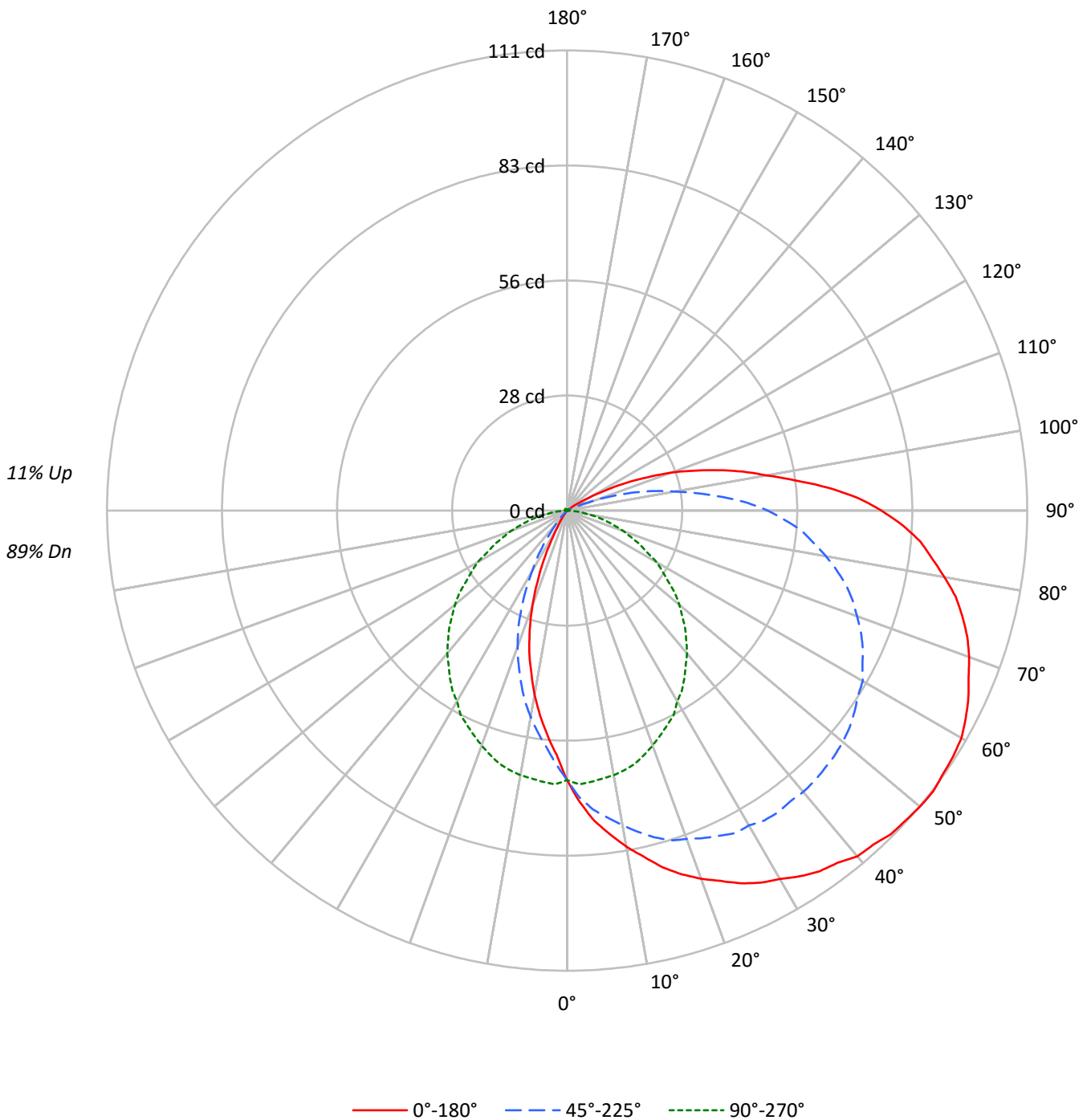
Input Watts (W): 12.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### 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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	102	95	89	84	98	92	86	82	85	81	77	79	76	73	74	71	68	65
2	91	81	72	65	87	78	70	63	72	66	60	67	62	57	62	58	54	51
3	82	70	60	52	78	67	58	51	62	55	49	58	52	47	54	49	44	41
4	75	61	51	43	71	59	50	42	55	47	41	51	44	39	48	42	37	34
5	68	54	44	37	65	52	43	36	49	41	35	45	39	33	42	37	32	29
6	63	48	39	32	60	47	38	31	44	36	30	41	34	29	38	32	28	25
7	58	44	34	28	56	42	33	27	40	32	26	37	30	25	35	29	24	22
8	54	40	31	24	52	38	30	24	36	29	23	34	27	22	32	26	22	19
9	50	36	28	22	48	35	27	21	33	26	21	31	25	20	30	24	19	17
10	47	33	25	20	45	32	25	19	31	24	19	29	23	18	27	22	18	16

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

	0°	90°	180°
0°	5757	5757	5757
5°	6140	5834	4448
10°	6292	5813	3456
15°	6444	5773	2553
20°	6530	5654	1693
25°	6612	5543	926
30°	6652	5386	318
35°	6754	5278	70
40°	6846	5141	13
45°	6914	4977	0
50°	6985	4783	0
55°	7040	4495	0
60°	7119	4322	0
65°	7118	3925	0
70°	7131	3588	0
75°	7138	3151	0
80°	7065	2548	0
85°	6990	1747	16



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.2	2.2
10°-20°	17.5	6.1
20°-30°	26.0	9.1
30°-40°	31.6	11.0
40°-50°	35.6	12.5
50°-60°	37.8	13.2
60°-70°	37.3	13.0
70°-80°	34.1	11.9
80°-90°	28.2	9.9
90°-100°	18.9	6.6
100°-110°	9.3	3.2
110°-120°	2.8	1.0
120°-130°	0.4	0.1
130°-140°	0.1	0.0
140°-150°	0.1	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	49.7	17.4
0°-40°	81.3	28.4
0°-60°	154.7	54.1
0°-90°	254.3	88.9
90°-120°	31.0	10.8
90°-150°	31.6	11.0
90°-180°	32.0	11.2
0°-180°	286.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	65	65	65	65	65	
5°	75	72	66	57	54	7
15°	89	82	63	43	35	25
25°	99	87	57	26	14	46
35°	106	89	49	9	1	67
45°	110	88	40	1	0	85
55°	111	85	30	0	0	99
65°	107	79	19	0	0	106
75°	99	70	10	0	0	104
85°	86	57	2	0	0	71
90°	76	48	0	0	0	41
95°	63	38	0	0	0	49
105°	38	17	0	0	0	40
115°	16	2	0	0	0	16
125°	2	0	0	0	0	2
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
2.5°	70.4	69.9	70.2	69.9	69.9	69.7	69.5	69.5	69.3	69.0	69.3
5°	75.1	74.7	74.9	74.4	74.0	73.8	73.5	73.3	72.9	72.6	72.4
7.5°	78.7	78.5	78.3	78.0	77.6	77.4	76.9	76.5	76.0	75.6	74.7
10°	82.3	81.6	81.6	81.4	81.0	80.5	80.1	79.8	78.7	78.3	77.1
12.5°	85.5	85.2	85.2	84.3	83.9	83.7	83.0	82.5	81.4	80.5	79.4
15°	89.1	88.8	88.6	88.2	87.5	86.8	86.1	85.0	84.1	82.8	81.6
17.5°	92.0	91.8	91.5	90.6	90.2	89.5	88.8	87.5	86.1	84.8	83.4
20°	94.5	94.2	93.8	93.1	92.0	91.5	90.6	89.5	87.9	86.4	84.3
22.5°	96.7	96.5	96.0	95.1	94.2	93.6	92.7	91.1	89.5	87.7	85.5
25°	99.2	99.0	98.3	97.4	96.0	95.4	94.7	93.1	91.1	89.1	86.6
27.5°	101.2	101.0	100.3	99.4	98.1	97.4	96.5	94.5	92.4	90.2	87.7
30°	102.6	102.6	101.9	100.8	99.4	98.5	97.6	95.6	93.1	90.6	87.7
32.5°	104.6	104.6	103.9	102.8	101.2	100.3	99.2	96.9	94.2	91.5	88.6
35°	106.2	105.7	105.0	103.9	102.3	101.4	100.3	97.6	94.9	91.8	88.8
37.5°	107.1	106.8	106.2	105.0	103.2	102.1	100.8	98.1	95.4	91.8	88.4
40°	108.9	108.2	107.5	106.4	104.6	103.2	101.9	99.2	95.8	92.4	88.6
42.5°	109.3	109.3	108.2	106.8	105.0	103.7	102.6	99.2	96.0	92.0	88.4
45°	110.4	110.0	109.1	107.5	105.5	104.1	103.0	99.6	96.0	92.2	87.9
47.5°	110.7	110.4	109.3	107.7	105.7	104.6	103.0	99.6	96.0	91.8	87.5
50°	111.1	110.9	109.8	108.0	105.7	104.8	103.2	99.6	95.6	91.5	86.8
52.5°	111.3	110.9	110.0	108.2	105.9	104.6	103.0	99.4	95.1	90.6	85.9
55°	110.7	110.4	109.3	107.5	105.0	103.7	102.1	98.5	94.2	89.5	84.6
57.5°	110.4	110.0	108.6	106.8	104.4	103.0	101.4	97.8	93.3	88.4	83.2
60°	109.8	109.3	108.2	106.2	103.7	102.3	100.5	96.7	92.4	87.5	82.3
62.5°	108.4	107.7	106.6	104.6	102.1	100.5	99.0	95.1	90.6	85.9	80.3
65°	106.8	106.6	105.5	103.5	100.8	99.2	97.6	93.6	89.1	84.1	78.7
67.5°	104.8	104.6	103.5	101.4	98.7	97.2	95.4	91.5	87.3	82.1	76.7
70°	103.2	103.0	101.7	99.6	96.9	95.1	93.6	89.7	85.2	80.1	74.4
72.5°	101.2	100.5	99.6	97.6	94.9	93.1	91.3	87.3	83.0	77.8	72.2
75°	98.7	98.1	96.9	95.1	92.4	90.6	88.8	84.8	80.3	75.3	69.7
77.5°	96.0	95.4	94.2	92.2	89.5	87.7	85.9	82.1	77.4	72.2	66.6
80°	92.4	92.0	90.9	89.1	86.4	84.8	83.0	78.9	74.2	69.0	63.4
82.5°	88.8	88.8	87.5	85.7	83.0	81.2	79.4	75.3	71.1	66.1	60.0
85°	85.5	84.8	83.9	81.9	79.4	77.6	75.6	72.0	67.5	62.3	56.9
87.5°	81.0	80.3	79.4	77.6	75.1	73.5	71.3	67.7	63.0	58.2	52.6
90°	75.8	75.6	74.4	72.4	69.9	68.4	66.8	63.2	58.7	53.8	48.4
92.5°	70.2	69.7	69.0	67.0	64.8	63.2	61.4	57.8	53.3	48.6	43.4
95°	63.2	62.7	61.8	60.0	57.8	56.4	54.4	51.1	46.8	42.5	37.6
97.5°	55.6	55.3	54.2	52.9	50.6	49.3	47.7	44.5	40.7	36.7	31.9
100°	48.8	48.6	47.9	46.6	44.5	43.2	41.6	38.9	35.3	31.3	26.5
102.5°	43.4	43.2	42.3	40.9	39.1	37.8	36.4	33.5	30.1	25.9	21.8
105°	37.6	37.3	36.4	35.3	33.5	32.2	31.0	28.1	24.5	20.7	16.9
107.5°	31.9	31.5	30.8	29.7	27.9	27.0	25.4	22.7	19.6	16.0	11.9
110°	26.8	26.1	25.4	24.3	22.5	21.6	20.2	17.5	14.6	11.2	7.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	20.9	20.9	20.0	18.9	17.3	16.2	15.1	12.4	9.7	6.7	3.8
115°	16.0	15.5	14.8	13.7	12.4	11.5	10.1	8.1	5.4	3.4	1.8
117.5°	11.0	10.6	10.1	9.2	7.9	7.0	6.1	4.3	2.9	1.6	0.2
120°	7.0	6.3	6.1	5.2	4.3	3.8	3.4	2.2	1.3	0.2	0.2
122.5°	4.0	3.8	3.6	3.1	2.5	2.0	1.3	0.7	0.2	0.2	0.2
125°	1.8	1.6	1.3	0.7	0.4	0.2	0.2	0.2	0.2	0.2	0.0
127.5°	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.2	0.0	0.0	0.0
130°	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.4	0.0	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.2
135°	0.0	0.0	0.0	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.2
137.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.2	0.4
140°	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.2
142.5°	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
145°	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2
147.5°	0.0	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.4
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
152.5°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.2
155°	0.2	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.2	0.2
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.2	0.0
160°	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.2
162.5°	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.2	0.2	0.2
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
167.5°	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.2	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.2	0.2	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0
180°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
2.5°	68.4	68.4	67.9	67.9	67.7	67.5	67.2	67.0	66.6	66.1	65.2
5°	71.3	70.6	70.2	69.7	69.5	69.3	68.1	67.2	66.8	65.7	64.3
7.5°	73.8	72.9	72.0	71.1	70.6	69.9	68.8	67.9	66.6	65.2	63.4
10°	76.0	74.9	73.8	72.4	71.7	71.3	69.7	68.1	66.6	64.8	62.7
12.5°	78.0	76.7	75.1	73.5	72.9	72.0	70.2	68.1	66.1	64.1	61.4
15°	79.8	78.0	76.2	74.4	73.3	72.4	70.2	68.1	65.7	63.2	60.0
17.5°	81.2	78.9	77.1	75.1	73.8	72.6	70.2	67.7	65.0	61.8	58.5
20°	82.3	79.6	77.4	75.1	73.8	72.4	69.7	67.0	63.9	60.3	56.9
22.5°	83.2	80.5	77.6	75.1	73.5	72.2	69.0	66.1	62.5	58.7	54.7
25°	84.1	81.0	77.6	75.1	73.3	71.7	68.4	65.0	61.4	57.1	52.6
27.5°	84.8	81.4	78.0	74.7	72.9	71.1	67.5	64.1	60.0	55.6	50.6
30°	84.8	81.2	77.6	74.0	72.0	70.2	66.1	62.3	57.8	53.1	48.1
32.5°	85.2	81.4	77.8	73.8	71.7	69.7	65.4	61.2	56.7	51.5	46.3
35°	85.0	81.2	77.4	72.9	70.6	68.4	64.1	59.6	54.9	49.3	43.9
37.5°	84.6	80.5	76.2	72.0	69.5	67.0	62.3	57.3	52.4	47.0	41.2
40°	84.8	80.3	75.8	71.3	68.8	66.1	61.4	56.2	50.8	45.0	39.1
42.5°	84.1	79.4	74.4	69.7	67.2	64.5	59.4	54.2	48.6	42.5	36.2
45°	83.7	78.7	73.8	68.8	66.1	63.4	58.0	52.4	46.6	40.3	34.0
47.5°	82.8	77.8	72.6	67.2	64.3	61.4	55.8	50.2	44.1	37.6	31.0
50°	81.9	76.7	71.3	65.4	62.7	59.8	53.8	47.9	41.8	35.3	28.3
52.5°	81.0	75.6	69.9	64.1	61.2	58.2	52.0	45.7	39.6	32.8	26.1
55°	79.4	73.8	67.9	62.1	59.1	55.8	49.3	43.2	36.7	29.7	22.9
57.5°	78.0	72.4	66.1	60.0	56.9	53.5	47.0	40.7	34.0	27.2	20.2
60°	76.7	70.8	64.5	58.5	54.9	51.7	45.0	38.5	31.7	25.0	18.2
62.5°	74.7	68.4	62.5	55.8	52.2	49.0	42.1	35.3	28.8	21.6	15.1
65°	72.9	66.8	60.3	53.5	49.9	46.8	39.8	33.1	26.1	19.3	12.8
67.5°	70.6	64.3	58.0	51.3	47.5	44.1	36.9	30.1	23.4	16.6	10.1
70°	68.6	62.1	55.6	48.6	45.0	41.4	34.4	27.4	20.7	14.4	8.1
72.5°	66.1	59.8	53.1	46.3	42.3	38.9	31.7	24.7	18.2	11.9	6.1
75°	63.6	57.1	50.4	43.6	39.8	36.2	29.0	22.0	15.7	9.7	4.5
77.5°	60.7	54.4	47.7	40.7	36.9	33.3	26.3	19.6	13.0	7.4	2.5
80°	57.3	51.1	44.3	37.8	34.2	30.4	23.6	16.6	10.6	5.4	1.3
82.5°	54.0	47.9	41.4	34.6	31.0	27.7	20.9	14.2	8.1	3.4	0.4
85°	50.8	44.5	38.0	31.5	27.9	24.7	18.2	11.9	6.1	2.0	0.4
87.5°	46.8	40.5	34.2	27.7	24.5	21.1	15.1	9.0	3.8	0.7	0.2
90°	42.1	36.2	30.1	23.8	20.5	17.8	11.7	6.5	2.2	0.2	0.2
92.5°	37.3	31.7	25.6	19.8	16.9	13.9	8.5	3.8	0.7	0.4	0.7
95°	31.9	26.5	20.7	15.3	12.8	10.1	5.2	1.6	0.7	0.2	0.4
97.5°	26.8	21.6	16.2	11.0	8.5	6.1	2.0	0.4	0.2	0.2	0.2
100°	21.4	16.9	11.9	7.0	4.7	2.9	0.2	0.0	0.0	0.0	0.2
102.5°	16.9	12.4	7.9	3.6	2.0	0.9	0.2	0.2	0.2	0.2	0.4
105°	12.1	8.1	3.8	1.3	0.4	0.0	0.0	0.0	0.2	0.2	0.2
107.5°	8.1	4.0	1.6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
110°	4.0	1.8	0.4	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.2





TEST NUMBER: P273354

CATALOG NUMBER: 0.03-3W-827-91-ID-STD-UNV-AN-3F0

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	1.8	0.4	0.0	0.0	0.2	0.2	0.0	0.0	0.2	0.2	0.2
115°	0.4	0.0	0.2	0.0	0.0	0.2	0.2	0.0	0.0	0.2	0.2
117.5°	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.2	0.2	0.2	0.2
120°	0.2	0.2	0.0	0.2	0.0	0.2	0.2	0.2	0.2	0.0	0.2
122.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
125°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
127.5°	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.2	0.0
130°	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.2
132.5°	0.2	0.2	0.4	0.2	0.2	0.0	0.2	0.4	0.2	0.2	0.2
135°	0.0	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.2
137.5°	0.2	0.4	0.4	0.4	0.2	0.2	0.2	0.4	0.4	0.7	0.2
140°	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.2
142.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2
145°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
147.5°	0.2	0.2	0.2	0.4	0.2	0.2	0.4	0.4	0.4	0.4	0.2
150°	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.0
152.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
155°	0.2	0.0	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.2
157.5°	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
160°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.2	0.4
162.5°	0.0	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2
165°	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.2
167.5°	0.2	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.2	0.0	0.2
170°	0.2	0.0	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.2
172.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
175°	0.2	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.2	0.2	0.0
177.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.2
180°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P273354

CATALOG NUMBER: 0.03-3W-827-91-ID-STD-UNV-AN-3F0

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
2.5°	64.8	64.1	63.9	63.6	63.2	62.5	62.3	61.6	61.2	60.9	60.3
5°	63.4	62.5	61.8	61.2	60.7	59.8	58.9	58.5	57.3	57.1	56.4
7.5°	62.1	60.7	59.6	58.9	58.2	56.9	55.8	54.9	54.0	53.1	52.4
10°	60.7	58.9	57.6	56.7	55.8	54.2	52.9	51.5	50.6	49.3	48.1
12.5°	59.1	56.9	55.3	54.2	53.3	51.3	49.7	48.4	47.0	45.4	44.1
15°	57.3	55.1	52.9	51.7	50.4	48.4	46.8	44.8	43.0	41.2	39.8
17.5°	55.3	52.6	50.4	48.8	47.9	45.2	43.0	40.7	38.9	37.3	35.3
20°	53.3	50.4	47.5	46.1	44.8	42.1	39.4	36.7	34.9	32.6	30.8
22.5°	51.1	47.9	44.5	43.0	41.6	38.2	35.8	32.8	30.8	28.1	25.9
25°	48.6	45.2	41.8	40.0	38.2	34.9	31.7	28.6	26.1	23.4	21.1
27.5°	46.6	42.5	38.7	36.9	35.1	31.3	28.1	25.0	21.6	19.1	16.4
30°	43.6	39.6	35.5	33.3	31.5	27.2	23.8	20.2	16.9	14.2	11.7
32.5°	41.6	37.1	32.8	30.6	28.6	24.1	20.5	16.6	13.3	10.1	7.9
35°	38.7	34.2	29.2	27.0	24.7	20.2	16.2	12.8	9.4	6.5	4.9
37.5°	35.8	30.8	25.9	23.6	21.1	16.6	12.4	8.8	5.8	3.8	2.9
40°	33.5	28.1	22.9	20.7	18.2	13.3	9.2	5.6	3.6	2.5	1.6
42.5°	30.6	25.0	19.8	17.1	14.6	9.9	5.8	3.6	2.2	1.1	0.4
45°	27.7	22.3	16.9	14.2	11.5	6.7	3.8	2.2	1.1	0.4	0.2
47.5°	25.0	19.1	13.7	11.0	8.5	4.3	2.5	1.1	0.2	0.2	0.0
50°	22.0	16.4	11.0	8.3	5.8	2.9	1.6	0.7	0.2	0.0	0.2
52.5°	19.8	14.2	8.3	5.8	4.0	2.0	0.9	0.7	0.4	0.2	0.4
55°	16.9	11.0	5.4	3.4	2.5	0.9	0.2	0.0	0.2	0.2	0.0
57.5°	14.4	8.5	3.6	2.5	1.6	0.4	0.2	0.0	0.0	0.2	0.0
60°	11.9	6.3	2.5	1.6	1.1	0.7	0.4	0.4	0.2	0.4	0.4
62.5°	9.0	4.0	1.1	0.7	0.2	0.2	0.0	0.2	0.2	0.0	0.0
65°	7.0	2.5	0.7	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	4.7	1.3	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.0	0.0
70°	3.1	0.7	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.0	0.0
72.5°	1.8	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
75°	0.9	0.4	0.2	0.2	0.4	0.0	0.2	0.2	0.2	0.0	0.2
77.5°	0.2	0.2	0.0	0.2	0.2	0.2	0.0	0.2	0.0	0.2	0.0
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.0	0.0
82.5°	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.2	0.0	0.2	0.0
85°	0.4	0.4	0.4	0.4	0.2	0.4	0.2	0.4	0.4	0.2	0.4
87.5°	0.2	0.4	0.4	0.2	0.2	0.4	0.2	0.2	0.2	0.2	0.2
90°	0.2	0.4	0.4	0.2	0.2	0.2	0.2	0.4	0.2	0.2	0.2
92.5°	0.4	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.7	0.4	0.2
95°	0.7	0.4	0.7	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2
97.5°	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2
100°	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0
102.5°	0.2	0.2	0.4	0.2	0.2	0.4	0.4	0.2	0.2	0.2	0.2
105°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
107.5°	0.0	0.2	0.2	0.2	0.2	0.0	0.0	0.2	0.2	0.0	0.2
110°	0.2	0.2	0.2	0.0	0.0	0.2	0.0	0.2	0.2	0.2	0.0



TEST NUMBER: P273354

CATALOG NUMBER: 0.03-3W-827-91-ID-STD-UNV-AN-3F0

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.2	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2
120°	0.0	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.0	0.2	0.0
122.5°	0.2	0.2	0.2	0.2	0.4	0.2	0.0	0.2	0.2	0.4	0.2
125°	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
127.5°	0.0	0.2	0.2	0.2	0.2	0.0	0.2	0.0	0.0	0.0	0.0
130°	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0
132.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.2
135°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.2
137.5°	0.2	0.4	0.4	0.4	0.4	0.4	0.2	0.4	0.2	0.4	0.2
140°	0.2	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.2	0.0	0.0
142.5°	0.2	0.2	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.0	0.0
145°	0.2	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.0
147.5°	0.2	0.2	0.4	0.4	0.2	0.2	0.4	0.2	0.2	0.2	0.2
150°	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.2	0.2	0.4	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2
155°	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.0
157.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.0	0.0
160°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
162.5°	0.2	0.2	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
165°	0.2	0.0	0.2	0.2	0.2	0.0	0.2	0.2	0.0	0.2	0.0
167.5°	0.2	0.2	0.2	0.0	0.0	0.2	0.2	0.2	0.0	0.2	0.0
170°	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
172.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.2
175°	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
177.5°	0.2	0.2	0.2	0.4	0.0	0.2	0.2	0.2	0.0	0.2	0.0
180°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P273354

CATALOG NUMBER: 0.03-3W-827-91-ID-STD-UNV-AN-3F0

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
2.5°	60.0	59.6	59.4	59.1	58.9	58.9	59.1	58.9
5°	56.0	55.3	55.1	54.9	54.7	54.4	54.7	54.4
7.5°	51.5	51.1	50.8	50.4	49.9	49.9	49.9	49.9
10°	47.5	46.8	46.3	45.9	45.4	45.2	45.2	45.2
12.5°	43.2	42.1	41.6	41.4	40.5	40.5	40.3	40.0
15°	38.7	37.6	37.1	36.4	36.0	35.3	35.5	35.3
17.5°	34.2	32.8	32.2	31.5	31.0	30.4	30.4	29.9
20°	29.2	27.9	27.2	26.5	25.6	25.0	25.0	24.5
22.5°	24.3	22.5	22.0	21.1	20.5	19.6	19.3	18.9
25°	19.1	17.5	16.6	16.0	15.1	14.2	13.7	13.9
27.5°	14.4	12.6	11.9	11.2	10.1	9.2	8.8	8.8
30°	9.4	7.6	7.0	6.5	5.6	5.2	4.7	4.9
32.5°	6.1	5.2	4.7	4.0	3.6	3.1	3.1	2.9
35°	3.6	2.9	2.5	2.2	1.6	1.3	1.1	1.1
37.5°	1.8	1.1	0.7	0.4	0.2	0.2	0.2	0.0
40°	0.9	0.4	0.2	0.2	0.0	0.2	0.2	0.2
42.5°	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.2	0.2	0.0	0.0	0.2	0.0	0.0	0.0
52.5°	0.2	0.4	0.2	0.4	0.2	0.2	0.2	0.0
55°	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.2	0.2	0.4	0.0	0.2	0.4	0.2	0.0
62.5°	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.2	0.2	0.2	0.2	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0
80°	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.2	0.0	0.0	0.2	0.0	0.2	0.0
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
87.5°	0.2	0.2	0.2	0.0	0.2	0.2	0.0	0.2
90°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.2
92.5°	0.4	0.2	0.2	0.4	0.2	0.2	0.2	0.7
95°	0.2	0.2	0.2	0.4	0.4	0.2	0.2	0.4
97.5°	0.0	0.2	0.0	0.0	0.2	0.2	0.2	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.2	0.2	0.0	0.2	0.4	0.2	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
107.5°	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2
110°	0.2	0.2	0.2	0.0	0.0	0.2	0.2	0.0



TEST NUMBER: P273354

CATALOG NUMBER: 0.03-3W-827-91-ID-STD-UNV-AN-3F0

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	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
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.2
125°	0.2	0.2	0.2	0.2	0.0	0.2	0.2	0.2
127.5°	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
132.5°	0.2	0.0	0.0	0.0	0.2	0.2	0.0	0.0
135°	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0
137.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
140°	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
145°	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.2	0.2	0.2	0.2	0.0	0.0	0.2	0.0
155°	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
160°	0.2	0.0	0.2	0.2	0.2	0.2	0.0	0.0
162.5°	0.0	0.0	0.2	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
167.5°	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
172.5°	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

(END OF REPORT)