

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: P273333

Luminaire Tested: **0.03-1W-827-90-ID-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-246-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 0.03-1W-827-90-ID-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES .75 LINEAR LED LUMINAIRE, 90 DEGREE SYMMETRIC OPTIC.
STANDARD OUTPUT
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 251.8 lumens
Efficiency: N/A
Efficacy: 33.6 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.2 / 1.52
Luminous Opening: Rectangular (W 2.92' x L: 0.06' x H: 0')
CIE Type: Direct

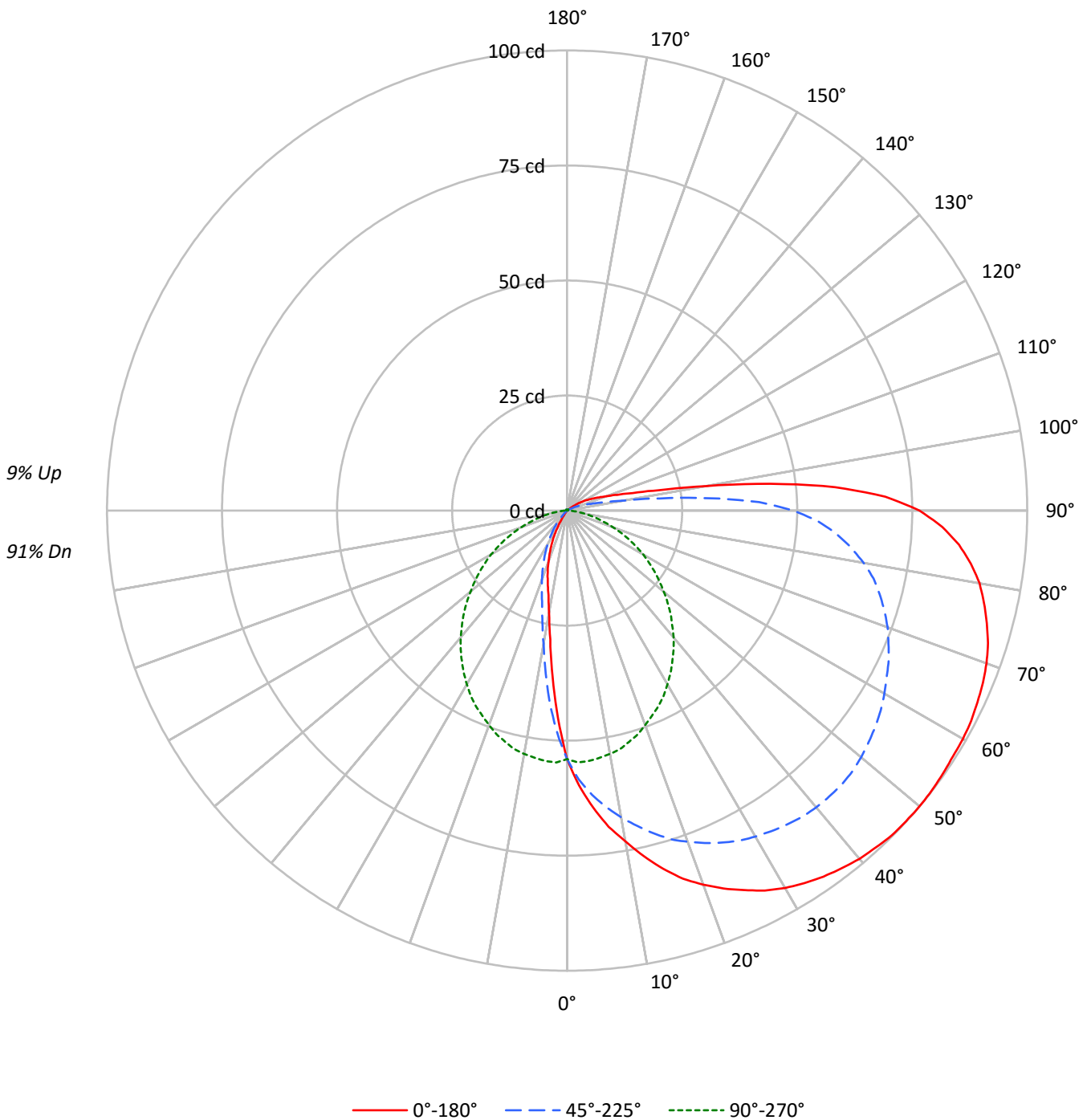
Input Watts (W): 7.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	102	95	88	83	98	91	86	81	85	81	76	80	76	72	75	71	69	66
2	90	80	71	64	87	77	69	62	72	65	59	67	61	56	63	58	54	51
3	81	68	59	51	78	66	57	50	62	54	47	58	51	45	54	48	44	41
4	74	60	49	42	71	58	48	41	54	46	39	50	43	38	47	41	36	33
5	67	53	43	35	65	51	42	34	48	40	33	45	38	32	42	36	31	28
6	62	47	37	30	59	46	36	30	43	35	28	40	33	28	38	31	27	24
7	57	42	33	26	55	41	32	26	39	31	25	36	29	24	34	28	23	21
8	53	39	29	23	51	37	29	23	35	28	22	33	26	21	31	25	21	18
9	50	35	26	20	48	34	26	20	32	25	20	31	24	19	29	23	18	16
10	46	32	24	18	45	32	24	18	30	23	18	28	22	17	27	21	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	3189	3189	3189
5°	3841	3236	2152
10°	4377	3220	1349
15°	4927	3179	990
20°	5435	3117	748
25°	5929	3056	515
30°	6457	2973	266
35°	6999	2876	58
40°	7616	2775	8
45°	8334	2655	0
50°	9186	2517	0
55°	10264	2388	0
60°	11727	2256	0
65°	13748	2068	14
70°	16746	1830	0
75°	21537	1574	0
80°	30944	1292	34
85°	57926	948	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	1.9
10°-20°	13.7	5.4
20°-30°	21.4	8.5
30°-40°	27.4	10.9
40°-50°	31.9	12.7
50°-60°	34.4	13.7
60°-70°	34.8	13.8
70°-80°	32.8	13.0
80°-90°	28.2	11.2
90°-100°	16.4	6.5
100°-110°	4.1	1.6
110°-120°	1.3	0.5
120°-130°	0.4	0.1
130°-140°	0.2	0.1
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	39.9	15.9
0°-40°	67.3	26.7
0°-60°	133.7	53.1
0°-90°	229.5	91.1
90°-120°	21.8	8.6
90°-150°	22.3	8.9
90°-180°	22.0	8.7
0°-180°	251.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	54	54	54	54	54	
5°	65	62	55	42	36	6
15°	81	73	52	21	16	23
25°	91	80	47	12	8	42
35°	97	83	40	6	1	61
45°	100	84	32	1	0	77
55°	100	82	23	0	0	89
65°	98	77	15	0	0	98
75°	94	70	7	0	0	100
85°	86	59	1	0	0	71
90°	77	49	0	0	0	42
95°	58	31	0	0	0	42
105°	15	6	0	0	0	18
115°	6	2	0	0	0	6
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°	25°	30°	35°	40°	45°	50°
0°	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
2.5°	59.8	59.4	59.5	59.5	59.1	59.1	58.9	58.6	58.5	58.5	57.9
5°	64.8	64.5	64.5	64.3	63.8	63.5	63.2	62.7	62.3	62.0	61.1
7.5°	69.3	68.9	68.7	68.5	67.9	67.5	66.9	66.2	65.6	65.0	63.8
10°	73.0	72.7	72.4	72.1	71.5	70.9	70.2	69.4	68.7	67.7	66.3
12.5°	76.9	76.6	76.3	75.8	75.2	74.5	73.6	72.4	71.6	70.2	68.6
15°	80.6	80.2	79.8	79.2	78.6	77.6	76.5	75.3	74.2	72.6	70.6
17.5°	83.9	83.5	83.1	82.5	81.7	80.6	79.3	77.8	76.5	74.9	72.6
20°	86.5	86.1	85.8	85.2	84.2	83.0	81.7	80.1	78.6	76.6	74.2
22.5°	88.9	88.4	88.1	87.5	86.4	85.2	83.7	82.0	80.4	78.2	75.5
25°	91.0	90.6	90.2	89.7	88.5	87.1	85.7	83.8	82.0	79.6	76.8
27.5°	93.1	92.7	92.3	91.6	90.5	89.0	87.5	85.4	83.3	80.9	77.8
30°	94.7	94.4	94.0	93.3	92.1	90.6	88.9	86.7	84.5	81.8	78.6
32.5°	96.0	95.7	95.4	94.5	93.4	91.9	90.0	87.8	85.4	82.6	79.3
35°	97.1	97.0	96.5	95.6	94.6	93.0	91.0	88.8	86.2	83.3	79.7
37.5°	98.0	97.9	97.5	96.6	95.5	93.9	91.8	89.7	86.9	83.9	80.2
40°	98.8	98.7	98.3	97.3	96.3	94.6	92.5	90.3	87.4	84.2	80.4
42.5°	99.3	99.2	98.8	97.8	96.7	95.1	93.0	90.5	87.7	84.3	80.4
45°	99.8	99.7	99.2	98.1	97.1	95.4	93.3	90.7	87.8	84.3	80.3
47.5°	99.9	99.8	99.3	98.3	97.1	95.4	93.4	90.6	87.6	84.0	79.8
50°	100.0	99.9	99.3	98.3	97.0	95.4	93.1	90.4	87.3	83.4	79.1
52.5°	99.9	99.7	99.1	98.1	96.8	95.1	92.7	90.1	86.6	82.6	78.2
55°	99.7	99.5	98.9	97.8	96.6	94.7	92.4	89.5	86.0	81.8	77.0
57.5°	99.4	99.2	98.5	97.5	96.1	94.3	91.9	88.8	85.1	80.8	75.8
60°	99.3	99.0	98.2	97.2	95.8	93.8	91.3	88.1	84.3	79.6	74.5
62.5°	99.0	98.7	97.9	96.9	95.3	93.3	90.6	87.2	83.2	78.3	72.8
65°	98.4	98.1	97.4	96.4	94.7	92.7	89.9	86.5	82.2	77.1	71.1
67.5°	97.8	97.5	96.7	95.6	93.8	91.8	88.9	85.3	81.1	75.6	69.2
70°	97.0	96.7	95.8	94.7	93.0	90.7	87.9	84.3	79.7	74.1	67.3
72.5°	95.9	95.6	94.7	93.5	91.9	89.5	86.7	83.0	78.2	72.3	65.2
75°	94.4	94.2	93.4	92.1	90.4	88.1	85.1	81.4	76.6	70.3	62.8
77.5°	92.8	92.6	91.8	90.4	88.6	86.3	83.3	79.4	74.5	68.2	60.4
80°	91.0	90.7	89.9	88.5	86.6	84.2	81.1	77.0	71.9	65.4	57.8
82.5°	88.5	88.3	87.6	86.2	84.2	81.7	78.6	74.4	69.2	62.3	54.9
85°	85.5	85.3	84.6	83.2	81.2	78.7	75.5	71.4	65.7	58.8	51.9
87.5°	81.6	81.6	80.8	79.3	77.4	74.8	71.5	67.1	61.4	54.7	47.8
90°	76.6	76.5	75.4	74.0	72.0	69.3	66.0	61.7	55.6	49.2	42.8
92.5°	69.2	69.3	68.0	66.7	64.5	61.6	58.4	54.2	47.6	41.8	35.6
95°	58.5	58.7	57.7	55.8	53.6	50.8	47.2	43.0	36.6	30.9	25.8
97.5°	44.6	44.5	43.5	41.2	39.6	36.2	33.3	29.3	24.6	20.3	16.5
100°	30.5	30.6	29.8	28.3	26.5	23.8	21.6	18.6	15.5	12.6	10.1
102.5°	20.3	20.5	19.6	18.9	17.5	16.0	14.2	12.5	10.2	8.4	6.7
105°	14.7	14.7	14.3	13.4	12.4	11.5	10.2	8.8	7.3	6.0	4.7
107.5°	11.4	11.4	11.0	10.3	9.7	8.8	7.8	6.7	5.5	4.4	3.3
110°	9.1	9.1	8.8	8.4	7.7	7.0	6.2	5.2	4.2	3.3	2.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	7.5	7.5	7.2	6.7	6.2	5.7	4.9	4.1	3.2	2.5	1.8
115°	6.2	6.1	5.9	5.5	5.0	4.5	3.9	3.2	2.5	1.7	0.8
117.5°	5.0	5.0	4.8	4.5	4.1	3.6	3.0	2.4	1.6	0.6	0.3
120°	4.1	4.1	3.9	3.5	3.2	2.7	2.1	1.3	0.4	0.3	0.2
122.5°	3.1	3.1	3.0	2.6	2.1	1.5	0.8	0.3	0.2	0.3	0.2
125°	1.7	1.7	1.4	1.1	0.6	0.3	0.2	0.2	0.2	0.2	0.2
127.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
130°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2
132.5°	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
135°	0.1	0.1	0.2	0.2	0.2	0.2	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	0.2	0.3	0.2	0.2
140°	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
142.5°	0.0	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	0.0
147.5°	0.0	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	0.0
152.5°	0.0	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	0.0
157.5°	0.0	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	0.0
162.5°	0.0	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	0.0
167.5°	0.0	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	0.0
172.5°	0.0	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	0.0
177.5°	0.0	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	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
2.5°	57.7	57.2	57.0	56.6	56.2	55.7	55.3	54.8	54.1	53.2	52.6
5°	60.6	59.8	59.1	58.3	57.5	56.7	55.6	54.6	53.2	51.8	50.5
7.5°	63.0	62.0	61.0	59.8	58.6	57.3	55.9	54.2	52.3	50.2	48.1
10°	65.2	63.9	62.5	60.9	59.4	57.8	55.9	53.7	51.2	48.4	45.5
12.5°	67.2	65.6	63.9	62.0	60.0	58.1	55.7	53.1	49.9	46.3	42.7
15°	68.8	66.9	64.9	62.6	60.2	57.9	55.2	52.0	48.3	44.0	39.5
17.5°	70.4	68.2	65.8	63.1	60.4	57.8	54.6	51.0	46.7	41.6	36.4
20°	71.6	69.2	66.5	63.5	60.4	57.4	53.9	49.6	44.8	39.2	33.2
22.5°	72.7	69.9	66.9	63.7	60.2	56.8	53.0	48.2	42.9	36.5	30.2
25°	73.7	70.5	67.3	63.7	59.8	56.1	51.9	46.9	40.8	33.9	27.2
27.5°	74.7	71.0	67.4	63.5	59.3	55.3	50.8	45.4	38.7	31.4	24.5
30°	75.2	71.3	67.4	63.0	58.6	54.2	49.5	43.6	36.5	28.7	21.9
32.5°	75.5	71.5	67.2	62.6	57.7	53.0	47.9	41.8	34.3	26.2	19.5
35°	75.8	71.5	67.0	62.0	56.8	51.7	46.2	39.9	32.1	23.8	17.4
37.5°	75.9	71.3	66.6	61.4	55.8	50.4	44.7	38.0	29.9	21.5	15.6
40°	76.0	71.1	66.0	60.6	54.7	49.0	42.9	36.0	27.6	19.4	13.9
42.5°	75.8	70.6	65.4	59.6	53.2	47.2	40.9	33.8	25.2	17.3	12.2
45°	75.4	70.1	64.5	58.4	51.8	45.3	38.8	31.8	23.3	15.4	10.9
47.5°	74.8	69.2	63.3	56.9	49.9	43.3	36.7	29.6	21.1	13.8	9.5
50°	74.1	68.2	62.0	55.1	47.9	41.2	34.7	27.4	19.2	12.3	8.3
52.5°	73.0	66.9	60.3	53.2	45.9	39.1	32.5	25.3	17.3	10.7	7.1
55°	71.7	65.4	58.5	51.1	43.8	36.8	30.2	23.2	15.5	9.3	6.0
57.5°	70.1	63.5	56.4	49.0	41.6	34.6	28.0	21.1	13.6	8.1	4.8
60°	68.4	61.5	54.2	46.9	39.4	32.3	25.7	19.1	12.0	6.8	3.9
62.5°	66.3	59.2	51.9	44.6	37.0	29.9	23.3	16.9	10.3	5.7	3.0
65°	64.2	56.8	49.6	42.2	34.5	27.4	20.9	14.8	8.8	4.5	2.1
67.5°	61.8	54.4	47.0	39.5	31.9	24.8	18.4	12.7	7.2	3.4	1.3
70°	59.6	51.9	44.4	36.8	29.1	22.0	16.0	10.6	5.7	2.4	0.6
72.5°	57.3	49.5	41.8	34.0	26.4	19.3	13.7	8.7	4.4	1.5	0.4
75°	55.1	47.2	39.3	31.2	23.4	16.8	11.4	6.9	3.1	0.8	0.3
77.5°	52.7	44.8	36.6	28.4	20.6	14.2	9.2	5.2	2.1	0.4	0.3
80°	50.3	42.3	34.0	25.7	18.1	11.9	7.1	3.8	1.2	0.3	0.2
82.5°	47.6	39.6	31.3	23.1	15.6	9.7	5.4	2.5	0.5	0.2	0.2
85°	44.6	36.8	28.6	20.7	13.4	7.8	4.0	1.4	0.3	0.2	0.2
87.5°	41.0	33.3	25.5	17.9	11.2	6.2	2.7	0.8	0.3	0.3	0.3
90°	36.0	28.9	21.5	14.6	8.7	4.4	1.6	0.3	0.3	0.3	0.2
92.5°	29.4	22.8	16.3	10.6	5.9	2.6	0.7	0.3	0.3	0.3	0.2
95°	20.7	15.3	10.5	6.5	3.2	1.0	0.3	0.3	0.3	0.2	0.2
97.5°	12.7	9.2	6.1	3.4	1.5	0.3	0.2	0.3	0.3	0.2	0.2
100°	7.8	5.5	3.5	1.8	0.7	0.3	0.2	0.3	0.3	0.2	0.3
102.5°	5.0	3.4	2.1	1.0	0.2	0.2	0.2	0.3	0.3	0.2	0.3
105°	3.4	2.2	1.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3
107.5°	2.4	1.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
110°	1.6	0.6	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P273333

CATALOG NUMBER: 0.03-1W-827-90-ID-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	0.8	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2
115°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
117.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
120°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
122.5°	0.3	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	0.2	0.2	0.2
127.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
130°	0.2	0.3	0.3	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3
132.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
135°	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.3
137.5°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
140°	0.2	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3
142.5°	0.0	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	0.0
147.5°	0.0	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	0.0
152.5°	0.0	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	0.0
157.5°	0.0	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	0.0
162.5°	0.0	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	0.0
167.5°	0.0	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	0.0
172.5°	0.0	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	0.0
177.5°	0.0	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	0.0



TEST NUMBER: P273333

CATALOG NUMBER: 0.03-1W-827-90-ID-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
2.5°	51.9	51.2	50.6	49.8	49.0	48.5	47.9	47.2	47.0	46.3	45.9
5°	49.2	47.7	46.4	45.0	43.4	42.3	41.3	40.1	39.2	38.3	38.0
7.5°	46.0	43.9	41.7	39.5	37.4	35.7	34.2	32.7	31.5	30.8	29.9
10°	42.5	39.7	36.6	34.0	31.5	29.5	28.0	26.5	25.3	24.3	23.8
12.5°	38.9	35.4	31.9	29.0	26.7	24.8	23.2	22.1	21.2	20.5	19.9
15°	35.0	30.9	27.5	24.6	22.5	21.0	19.7	18.8	18.2	17.5	17.1
17.5°	31.4	27.3	23.7	21.4	19.7	18.3	17.3	16.4	15.8	15.2	14.8
20°	28.0	23.9	20.9	18.8	17.3	16.0	15.0	14.2	13.6	13.1	12.6
22.5°	24.8	21.0	18.3	16.4	15.1	13.9	12.9	12.0	11.5	10.9	10.4
25°	22.0	18.7	16.1	14.4	13.2	12.0	11.0	10.1	9.5	8.9	8.4
27.5°	19.6	16.4	14.2	12.6	11.4	10.2	9.2	8.4	7.7	7.0	6.6
30°	17.4	14.6	12.6	10.9	9.7	8.4	7.5	6.6	6.0	5.3	4.8
32.5°	15.5	12.8	11.0	9.4	8.1	6.9	5.9	5.1	4.3	3.6	3.0
35°	13.8	11.3	9.4	7.9	6.7	5.5	4.6	3.6	2.8	2.1	1.6
37.5°	12.1	9.9	8.1	6.6	5.3	4.2	3.2	2.2	1.5	1.0	0.7
40°	10.7	8.6	6.8	5.4	4.2	3.0	2.0	1.2	0.6	0.3	0.2
42.5°	9.4	7.2	5.6	4.2	3.0	1.8	1.0	0.4	0.2	0.1	0.1
45°	8.1	6.2	4.6	3.2	2.0	0.9	0.4	0.3	0.2	0.1	0.1
47.5°	6.9	5.1	3.5	2.1	1.0	0.4	0.2	0.2	0.1	0.1	0.1
50°	5.8	4.1	2.6	1.2	0.5	0.2	0.2	0.2	0.1	0.1	0.1
52.5°	4.7	3.1	1.5	0.5	0.2	0.2	0.1	0.1	0.1	0.1	0.1
55°	3.8	2.1	0.8	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1
57.5°	3.0	1.3	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
60°	2.1	0.7	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
62.5°	1.3	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
65°	0.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
67.5°	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
80°	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.1
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
85°	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
87.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.1
90°	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1
92.5°	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
95°	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1
97.5°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
100°	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
102.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1
105°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
107.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.1
110°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1



TEST NUMBER: P273333

CATALOG NUMBER: 0.03-1W-827-90-ID-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
115°	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
117.5°	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1
120°	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
122.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1
125°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
127.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1
130°	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.1
132.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
135°	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1
137.5°	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2
140°	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1
142.5°	0.0	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	0.0
147.5°	0.0	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	0.0
152.5°	0.0	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	0.0
157.5°	0.0	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	0.0
162.5°	0.0	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	0.0
167.5°	0.0	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	0.0
172.5°	0.0	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	0.0
177.5°	0.0	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	0.0



TEST NUMBER: P273333

CATALOG NUMBER: 0.03-1W-827-90-ID-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	54.0	54.0	54.0	54.0
2.5°	45.7	45.9	45.6	45.2
5°	37.2	37.3	36.8	36.3
7.5°	29.1	29.0	28.6	28.2
10°	23.3	23.1	22.8	22.5
12.5°	19.4	19.2	19.1	18.8
15°	16.6	16.4	16.3	16.2
17.5°	14.5	14.3	14.2	14.1
20°	12.3	12.1	12.0	11.9
22.5°	10.2	10.0	9.8	9.7
25°	8.1	7.9	7.7	7.9
27.5°	6.3	6.0	5.7	5.8
30°	4.3	4.1	3.9	3.9
32.5°	2.6	2.3	2.1	2.0
35°	1.2	1.0	0.8	0.8
37.5°	0.4	0.3	0.2	0.2
40°	0.2	0.1	0.1	0.1
42.5°	0.1	0.1	0.0	0.0
45°	0.1	0.1	0.1	0.0
47.5°	0.1	0.1	0.0	0.0
50°	0.1	0.1	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.1	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.1	0.0	0.0	0.0
62.5°	0.1	0.0	0.0	0.0
65°	0.1	0.1	0.0	0.1
67.5°	0.1	0.1	0.0	0.0
70°	0.1	0.0	0.0	0.0
72.5°	0.1	0.1	0.0	0.0
75°	0.1	0.1	0.0	0.0
77.5°	0.1	0.1	0.1	0.0
80°	0.1	0.1	0.1	0.1
82.5°	0.1	0.1	0.1	0.0
85°	0.1	0.1	0.1	0.0
87.5°	0.2	0.1	0.1	0.1
90°	0.1	0.1	0.1	0.0
92.5°	0.1	0.1	0.1	0.1
95°	0.1	0.1	0.1	0.1
97.5°	0.1	0.1	0.1	0.1
100°	0.1	0.1	0.1	0.1
102.5°	0.1	0.1	0.1	0.1
105°	0.1	0.1	0.1	0.1
107.5°	0.1	0.1	0.1	0.1
110°	0.1	0.1	0.1	0.1



TEST NUMBER: P273333

CATALOG NUMBER: 0.03-1W-827-90-ID-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
112.5°	0.1	0.1	0.1	0.0
115°	0.1	0.1	0.0	0.1
117.5°	0.1	0.1	0.0	0.0
120°	0.1	0.1	0.1	0.0
122.5°	0.1	0.1	0.1	0.0
125°	0.1	0.1	0.0	0.1
127.5°	0.1	0.1	0.1	0.1
130°	0.1	0.1	0.1	0.1
132.5°	0.1	0.1	0.1	0.0
135°	0.1	0.1	0.1	0.1
137.5°	0.2	0.2	0.1	0.1
140°	0.1	0.1	0.1	0.1
142.5°	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0

(END OF REPORT)