

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: P273334

Luminaire Tested: **0.03-1W-827-91-ID-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273334
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: 0.03-1W-827-91-ID-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES .75 LINEAR LED LUMINAIRE, 90 DEGREE ASYMMETRIC OPTIC.
STANDARD OUTPUT
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 119.0 lumens
Efficiency: N/A
Efficacy: 15.9 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

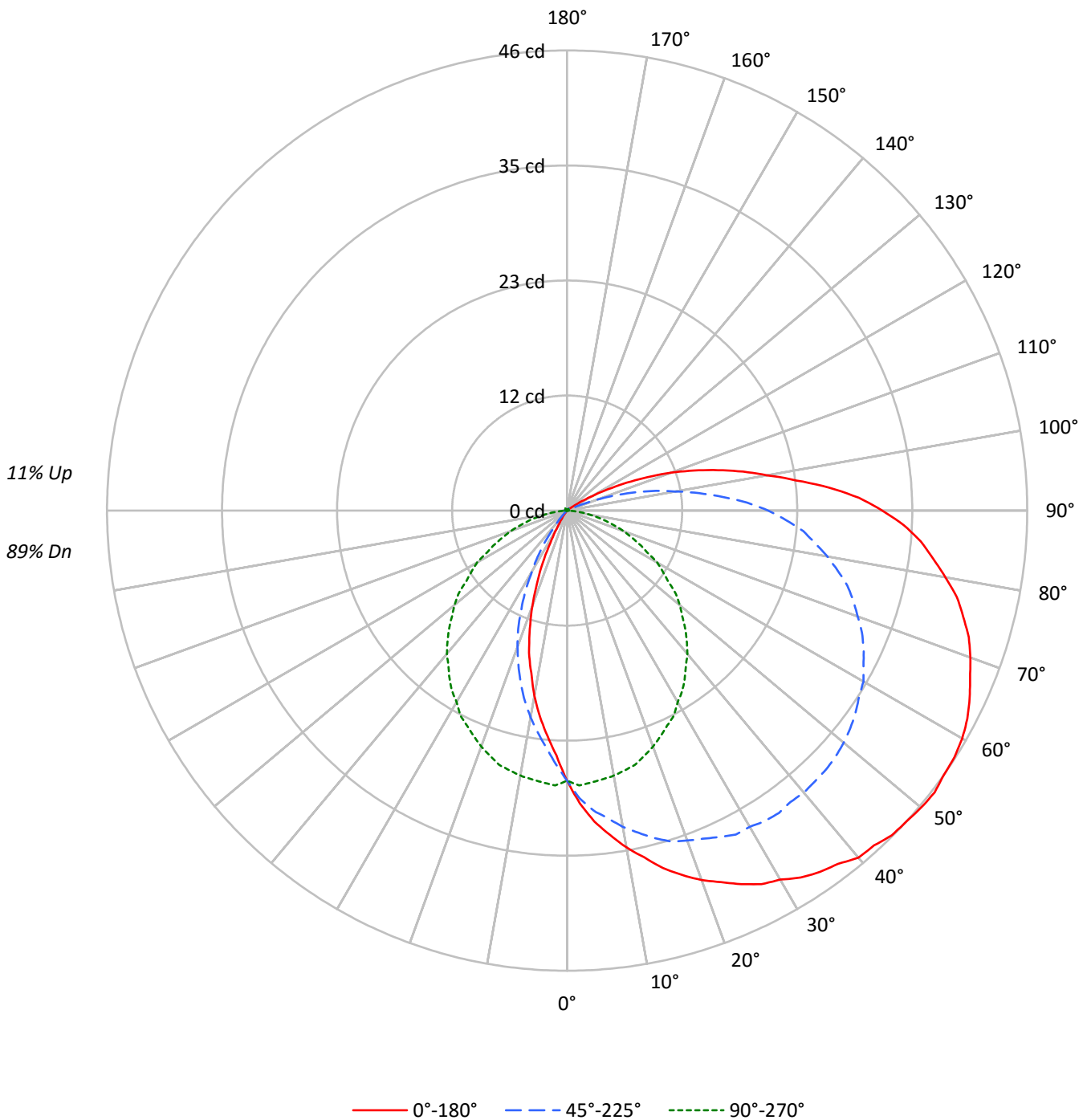
Input Watts (W): 7.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	36	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°	2391	2391	2391
5°	2551	2424	1848
10°	2615	2413	1437
15°	2676	2402	1063
20°	2716	2354	705
25°	2746	2301	387
30°	2762	2242	136
35°	2805	2195	32
40°	2848	2137	6
45°	2875	2062	0
50°	2905	1992	0
55°	2925	1861	0
60°	2957	1798	0
65°	2959	1627	0
70°	2965	1495	0
75°	2965	1300	0
80°	2936	1038	0
85°	2902	699	8



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	2.2
10°-20°	7.3	6.1
20°-30°	10.8	9.1
30°-40°	13.1	11.0
40°-50°	14.8	12.4
50°-60°	15.7	13.2
60°-70°	15.5	13.0
70°-80°	14.2	11.9
80°-90°	11.7	9.9
90°-100°	7.9	6.6
100°-110°	3.9	3.2
110°-120°	1.2	1.0
120°-130°	0.2	0.1
130°-140°	0.1	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°	20.7	17.4
0°-40°	33.8	28.4
0°-60°	64.3	54.0
0°-90°	105.8	88.9
90°-120°	12.9	10.9
90°-150°	13.2	11.1
90°-180°	13.0	10.9
0°-180°	119.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	27	27	27	27	27	
5°	31	30	27	24	23	3
15°	37	34	26	18	15	11
25°	41	36	24	11	6	19
35°	44	37	20	4	0	28
45°	46	37	17	0	0	35
55°	46	35	12	0	0	41
65°	44	33	8	0	0	44
75°	41	29	4	0	0	43
85°	36	24	1	0	0	30
90°	32	20	0	0	0	17
95°	26	16	0	0	0	20
105°	16	7	0	0	0	17
115°	7	1	0	0	0	7
125°	1	0	0	0	0	1
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°	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
2.5°	29.3	29.1	29.2	29.1	29.1	29.0	28.9	28.9	28.8	28.7	28.8
5°	31.2	31.0	31.1	30.9	30.8	30.7	30.6	30.5	30.3	30.2	30.1
7.5°	32.7	32.6	32.5	32.4	32.3	32.2	32.0	31.8	31.6	31.4	31.0
10°	34.2	33.9	33.9	33.8	33.7	33.5	33.3	33.2	32.7	32.5	32.1
12.5°	35.5	35.4	35.4	35.1	34.9	34.8	34.5	34.3	33.8	33.5	33.0
15°	37.0	36.9	36.8	36.7	36.4	36.1	35.8	35.3	35.0	34.4	33.9
17.5°	38.2	38.1	38.1	37.7	37.5	37.2	36.9	36.4	35.8	35.3	34.7
20°	39.3	39.2	39.0	38.7	38.2	38.1	37.7	37.2	36.6	35.9	35.1
22.5°	40.2	40.1	39.9	39.6	39.2	38.9	38.5	37.9	37.2	36.5	35.5
25°	41.2	41.1	40.9	40.5	39.9	39.6	39.4	38.7	37.9	37.0	36.0
27.5°	42.1	42.0	41.7	41.3	40.8	40.5	40.1	39.3	38.4	37.5	36.5
30°	42.6	42.6	42.4	41.9	41.3	41.0	40.6	39.7	38.7	37.7	36.5
32.5°	43.5	43.5	43.2	42.7	42.1	41.7	41.2	40.3	39.2	38.1	36.8
35°	44.1	43.9	43.7	43.2	42.5	42.2	41.7	40.6	39.5	38.1	36.9
37.5°	44.5	44.4	44.1	43.7	42.9	42.4	41.9	40.8	39.6	38.1	36.7
40°	45.3	45.0	44.7	44.2	43.5	42.9	42.4	41.2	39.8	38.4	36.8
42.5°	45.4	45.4	45.0	44.4	43.7	43.1	42.6	41.2	39.9	38.2	36.7
45°	45.9	45.7	45.3	44.7	43.9	43.3	42.8	41.4	39.9	38.3	36.6
47.5°	46.0	45.9	45.4	44.8	43.9	43.5	42.8	41.4	39.9	38.1	36.4
50°	46.2	46.1	45.6	44.9	43.9	43.6	42.9	41.4	39.7	38.1	36.1
52.5°	46.3	46.1	45.7	45.0	44.0	43.5	42.8	41.3	39.6	37.7	35.7
55°	46.0	45.9	45.4	44.7	43.7	43.1	42.4	41.0	39.2	37.2	35.2
57.5°	45.9	45.7	45.2	44.4	43.4	42.8	42.2	40.7	38.8	36.7	34.6
60°	45.6	45.4	45.0	44.1	43.1	42.5	41.8	40.2	38.4	36.4	34.2
62.5°	45.1	44.8	44.3	43.5	42.4	41.8	41.1	39.6	37.7	35.7	33.4
65°	44.4	44.3	43.9	43.0	41.9	41.2	40.6	38.9	37.0	35.0	32.7
67.5°	43.6	43.5	43.0	42.2	41.0	40.4	39.6	38.1	36.3	34.1	31.9
70°	42.9	42.8	42.3	41.4	40.3	39.6	38.9	37.3	35.4	33.3	30.9
72.5°	42.1	41.8	41.4	40.6	39.5	38.7	38.0	36.3	34.5	32.4	30.0
75°	41.0	40.8	40.3	39.6	38.4	37.7	36.9	35.3	33.4	31.3	29.0
77.5°	39.9	39.6	39.2	38.3	37.2	36.5	35.7	34.1	32.2	30.0	27.7
80°	38.4	38.2	37.8	37.0	35.9	35.3	34.5	32.8	30.9	28.7	26.4
82.5°	36.9	36.9	36.4	35.6	34.5	33.8	33.0	31.3	29.5	27.5	25.0
85°	35.5	35.3	34.9	34.0	33.0	32.3	31.4	29.9	28.1	25.9	23.7
87.5°	33.7	33.4	33.0	32.3	31.2	30.6	29.6	28.1	26.2	24.2	21.9
90°	31.5	31.4	30.9	30.1	29.1	28.4	27.8	26.3	24.4	22.3	20.1
92.5°	29.2	29.0	28.7	27.9	26.9	26.3	25.5	24.0	22.2	20.2	18.0
95°	26.3	26.1	25.7	25.0	24.0	23.5	22.6	21.2	19.4	17.7	15.6
97.5°	23.1	23.0	22.5	22.0	21.0	20.5	19.8	18.5	16.9	15.2	13.3
100°	20.3	20.2	19.9	19.4	18.5	18.0	17.3	16.2	14.7	13.0	11.0
102.5°	18.0	18.0	17.6	17.0	16.3	15.7	15.1	13.9	12.5	10.8	9.1
105°	15.6	15.5	15.1	14.7	13.9	13.4	12.9	11.7	10.2	8.6	7.0
107.5°	13.3	13.1	12.8	12.3	11.6	11.2	10.6	9.4	8.1	6.6	5.0
110°	11.1	10.8	10.6	10.1	9.4	9.0	8.4	7.3	6.1	4.7	3.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	8.7	8.7	8.3	7.9	7.2	6.7	6.3	5.1	4.0	2.8	1.6
115°	6.6	6.5	6.2	5.7	5.1	4.8	4.2	3.4	2.2	1.4	0.7
117.5°	4.6	4.4	4.2	3.8	3.3	2.9	2.5	1.8	1.2	0.7	0.1
120°	2.9	2.6	2.5	2.2	1.8	1.6	1.4	0.9	0.6	0.1	0.1
122.5°	1.7	1.6	1.5	1.3	1.0	0.8	0.6	0.3	0.1	0.1	0.1
125°	0.7	0.7	0.6	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.0
127.5°	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0
130°	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.2	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1
135°	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1
137.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2
140°	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1
142.5°	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
145°	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
147.5°	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
152.5°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
155°	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0
160°	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1
162.5°	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.1
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
167.5°	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
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	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0
180°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
2.5°	28.4	28.4	28.2	28.2	28.1	28.1	28.0	27.9	27.7	27.5	27.1
5°	29.6	29.4	29.2	29.0	28.9	28.8	28.3	28.0	27.8	27.3	26.7
7.5°	30.7	30.3	29.9	29.5	29.4	29.1	28.6	28.2	27.7	27.1	26.4
10°	31.6	31.1	30.7	30.1	29.8	29.6	29.0	28.3	27.7	26.9	26.1
12.5°	32.4	31.9	31.2	30.6	30.3	29.9	29.2	28.3	27.5	26.6	25.5
15°	33.2	32.4	31.7	30.9	30.5	30.1	29.2	28.3	27.3	26.3	25.0
17.5°	33.8	32.8	32.1	31.2	30.7	30.2	29.2	28.1	27.0	25.7	24.3
20°	34.2	33.1	32.2	31.2	30.7	30.1	29.0	27.9	26.6	25.1	23.7
22.5°	34.6	33.5	32.3	31.2	30.6	30.0	28.7	27.5	26.0	24.4	22.7
25°	35.0	33.7	32.3	31.2	30.5	29.8	28.4	27.0	25.5	23.7	21.9
27.5°	35.3	33.8	32.4	31.0	30.3	29.5	28.1	26.6	25.0	23.1	21.0
30°	35.3	33.8	32.3	30.8	29.9	29.2	27.5	25.9	24.0	22.1	20.0
32.5°	35.4	33.8	32.4	30.7	29.8	29.0	27.2	25.4	23.6	21.4	19.3
35°	35.3	33.8	32.2	30.3	29.4	28.4	26.6	24.8	22.8	20.5	18.2
37.5°	35.2	33.5	31.7	29.9	28.9	27.9	25.9	23.8	21.8	19.5	17.1
40°	35.3	33.4	31.5	29.6	28.6	27.5	25.5	23.4	21.1	18.7	16.3
42.5°	35.0	33.0	30.9	29.0	28.0	26.8	24.7	22.5	20.2	17.7	15.1
45°	34.8	32.7	30.7	28.6	27.5	26.4	24.1	21.8	19.4	16.7	14.1
47.5°	34.4	32.4	30.2	28.0	26.7	25.5	23.2	20.9	18.3	15.6	12.9
50°	34.0	31.9	29.6	27.2	26.1	24.9	22.3	19.9	17.4	14.7	11.8
52.5°	33.7	31.4	29.1	26.6	25.4	24.2	21.6	19.0	16.5	13.7	10.8
55°	33.0	30.7	28.2	25.8	24.6	23.2	20.5	18.0	15.2	12.3	9.5
57.5°	32.4	30.1	27.5	25.0	23.7	22.3	19.5	16.9	14.1	11.3	8.4
60°	31.9	29.5	26.8	24.3	22.8	21.5	18.7	16.0	13.2	10.4	7.6
62.5°	31.0	28.4	26.0	23.2	21.7	20.4	17.5	14.7	12.0	9.0	6.3
65°	30.3	27.8	25.1	22.3	20.8	19.4	16.5	13.7	10.8	8.0	5.3
67.5°	29.4	26.7	24.1	21.3	19.7	18.3	15.3	12.5	9.7	6.9	4.2
70°	28.5	25.8	23.1	20.2	18.7	17.2	14.3	11.4	8.6	6.0	3.4
72.5°	27.5	24.9	22.1	19.3	17.6	16.2	13.2	10.3	7.6	5.0	2.5
75°	26.5	23.7	20.9	18.1	16.5	15.1	12.1	9.2	6.5	4.0	1.9
77.5°	25.2	22.6	19.8	16.9	15.3	13.8	10.9	8.1	5.4	3.1	1.0
80°	23.8	21.2	18.4	15.7	14.2	12.6	9.8	6.9	4.4	2.2	0.6
82.5°	22.4	19.9	17.2	14.4	12.9	11.5	8.7	5.9	3.4	1.4	0.2
85°	21.1	18.5	15.8	13.1	11.6	10.3	7.6	5.0	2.5	0.8	0.2
87.5°	19.4	16.8	14.2	11.5	10.2	8.8	6.3	3.7	1.6	0.3	0.1
90°	17.5	15.1	12.5	9.9	8.5	7.4	4.9	2.7	0.9	0.1	0.1
92.5°	15.5	13.2	10.7	8.2	7.0	5.8	3.6	1.6	0.3	0.2	0.3
95°	13.3	11.0	8.6	6.4	5.3	4.2	2.2	0.7	0.3	0.1	0.2
97.5°	11.1	9.0	6.7	4.6	3.6	2.5	0.8	0.2	0.1	0.1	0.1
100°	8.9	7.0	5.0	2.9	2.0	1.2	0.1	0.0	0.0	0.0	0.1
102.5°	7.0	5.1	3.3	1.5	0.8	0.4	0.1	0.1	0.1	0.1	0.2
105°	5.0	3.4	1.6	0.6	0.2	0.0	0.0	0.0	0.1	0.1	0.1
107.5°	3.4	1.7	0.7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
110°	1.7	0.7	0.2	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P273334

CATALOG NUMBER: 0.03-1W-827-91-ID-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	0.7	0.2	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.1
115°	0.2	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1
117.5°	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1
120°	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.1
122.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
125°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
127.5°	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.0
130°	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1
132.5°	0.1	0.1	0.2	0.1	0.1	0.0	0.1	0.2	0.1	0.1	0.1
135°	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1
137.5°	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.3	0.1
140°	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1
142.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
145°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
147.5°	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.1
150°	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0
152.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
155°	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1
157.5°	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
160°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2
162.5°	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
165°	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1
167.5°	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.1
170°	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1
172.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
175°	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.1	0.0
177.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1
180°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P273334

CATALOG NUMBER: 0.03-1W-827-91-ID-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
2.5°	26.9	26.6	26.6	26.5	26.3	26.0	25.9	25.6	25.4	25.3	25.1
5°	26.4	26.0	25.7	25.4	25.2	24.9	24.5	24.3	23.8	23.7	23.5
7.5°	25.8	25.2	24.8	24.5	24.2	23.7	23.2	22.8	22.4	22.1	21.8
10°	25.2	24.5	23.9	23.6	23.2	22.5	22.0	21.4	21.0	20.5	20.0
12.5°	24.6	23.7	23.0	22.5	22.2	21.3	20.7	20.1	19.5	18.9	18.3
15°	23.8	22.9	22.0	21.5	20.9	20.1	19.4	18.6	17.9	17.1	16.5
17.5°	23.0	21.9	20.9	20.3	19.9	18.8	17.9	16.9	16.2	15.5	14.7
20°	22.2	20.9	19.7	19.2	18.6	17.5	16.4	15.2	14.5	13.6	12.8
22.5°	21.2	19.9	18.5	17.9	17.3	15.9	14.9	13.7	12.8	11.7	10.8
25°	20.2	18.8	17.4	16.6	15.9	14.5	13.2	11.9	10.8	9.7	8.8
27.5°	19.4	17.7	16.1	15.3	14.6	13.0	11.7	10.4	9.0	7.9	6.8
30°	18.1	16.5	14.8	13.8	13.1	11.3	9.9	8.4	7.0	5.9	4.9
32.5°	17.3	15.4	13.7	12.7	11.9	10.0	8.5	6.9	5.5	4.2	3.3
35°	16.1	14.2	12.2	11.2	10.3	8.4	6.7	5.3	3.9	2.7	2.1
37.5°	14.9	12.8	10.8	9.8	8.8	6.9	5.1	3.6	2.4	1.6	1.2
40°	13.9	11.7	9.5	8.6	7.6	5.5	3.8	2.3	1.5	1.0	0.7
42.5°	12.7	10.4	8.2	7.1	6.1	4.1	2.4	1.5	0.9	0.5	0.2
45°	11.5	9.3	7.0	5.9	4.8	2.8	1.6	0.9	0.5	0.2	0.1
47.5°	10.4	7.9	5.7	4.6	3.6	1.8	1.0	0.5	0.1	0.1	0.0
50°	9.2	6.8	4.6	3.5	2.4	1.2	0.7	0.3	0.1	0.0	0.1
52.5°	8.2	5.9	3.5	2.4	1.7	0.8	0.4	0.3	0.2	0.1	0.2
55°	7.0	4.6	2.2	1.4	1.0	0.4	0.1	0.0	0.1	0.1	0.0
57.5°	6.0	3.6	1.5	1.0	0.7	0.2	0.1	0.0	0.0	0.1	0.0
60°	5.0	2.6	1.0	0.7	0.5	0.3	0.2	0.2	0.1	0.2	0.2
62.5°	3.7	1.7	0.5	0.3	0.1	0.1	0.0	0.1	0.1	0.0	0.0
65°	2.9	1.0	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
67.5°	2.0	0.6	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.0
70°	1.3	0.3	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0
72.5°	0.7	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
75°	0.4	0.2	0.1	0.1	0.2	0.0	0.1	0.1	0.1	0.0	0.1
77.5°	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.0
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0
82.5°	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.1	0.0
85°	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.1	0.2
87.5°	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1
90°	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1
92.5°	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.1
95°	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
97.5°	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
100°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
102.5°	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1
105°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
107.5°	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.1
110°	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.0



TEST NUMBER: P273334

CATALOG NUMBER: 0.03-1W-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°	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
120°	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.0
122.5°	0.1	0.1	0.1	0.1	0.2	0.1	0.0	0.1	0.1	0.2	0.1
125°	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
127.5°	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0
130°	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0
132.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1
135°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1
137.5°	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.1
140°	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0
142.5°	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0
145°	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0
147.5°	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1
150°	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1
155°	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0
157.5°	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0
160°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
162.5°	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
165°	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.0
167.5°	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.0
170°	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
172.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1
175°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
177.5°	0.1	0.1	0.1	0.2	0.0	0.1	0.1	0.1	0.0	0.1	0.0
180°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P273334

CATALOG NUMBER: 0.03-1W-827-91-ID-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
2.5°	25.0	24.8	24.7	24.6	24.5	24.5	24.6	24.5
5°	23.3	23.0	22.9	22.8	22.7	22.6	22.7	22.6
7.5°	21.4	21.2	21.1	20.9	20.8	20.8	20.8	20.8
10°	19.7	19.4	19.3	19.1	18.9	18.8	18.8	18.8
12.5°	18.0	17.5	17.3	17.2	16.8	16.8	16.7	16.6
15°	16.1	15.6	15.4	15.1	15.0	14.7	14.8	14.7
17.5°	14.2	13.7	13.4	13.1	12.9	12.6	12.6	12.4
20°	12.2	11.6	11.3	11.0	10.7	10.4	10.4	10.2
22.5°	10.1	9.4	9.2	8.8	8.5	8.1	8.0	7.9
25°	7.9	7.3	6.9	6.6	6.3	5.9	5.7	5.8
27.5°	6.0	5.2	5.0	4.7	4.2	3.8	3.6	3.6
30°	3.9	3.2	2.9	2.7	2.3	2.2	2.0	2.1
32.5°	2.5	2.2	2.0	1.7	1.5	1.3	1.3	1.2
35°	1.5	1.2	1.0	0.9	0.7	0.6	0.5	0.5
37.5°	0.7	0.5	0.3	0.2	0.1	0.1	0.1	0.0
40°	0.4	0.2	0.1	0.1	0.0	0.1	0.1	0.1
42.5°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0
52.5°	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.0
55°	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.1	0.1	0.2	0.0	0.1	0.2	0.1	0.0
62.5°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.1	0.1	0.1	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°	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
80°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.0
85°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
87.5°	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1
90°	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1
92.5°	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.3
95°	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2
97.5°	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.1	0.1	0.0	0.1	0.2	0.1	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
107.5°	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
110°	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0



TEST NUMBER: P273334

CATALOG NUMBER: 0.03-1W-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	0.1	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1
125°	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1
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°	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0
135°	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0
137.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	0.1	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0
155°	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
160°	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.0
162.5°	0.0	0.0	0.1	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	0.1	0.0	0.0	0.0	0.0	0.1	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

(END OF REPORT)