

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: P273374

Luminaire Tested: **0.03-5W-827-91-ID-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273374
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: 0.03-5W-827-91-ID-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES .75 LINEAR LED LUMINAIRE, 90 DEGREE ASYMMETRIC OPTIC.
VERY HIGH OUTPUT
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 432.8 lumens
Efficiency: N/A
Efficacy: 23.7 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

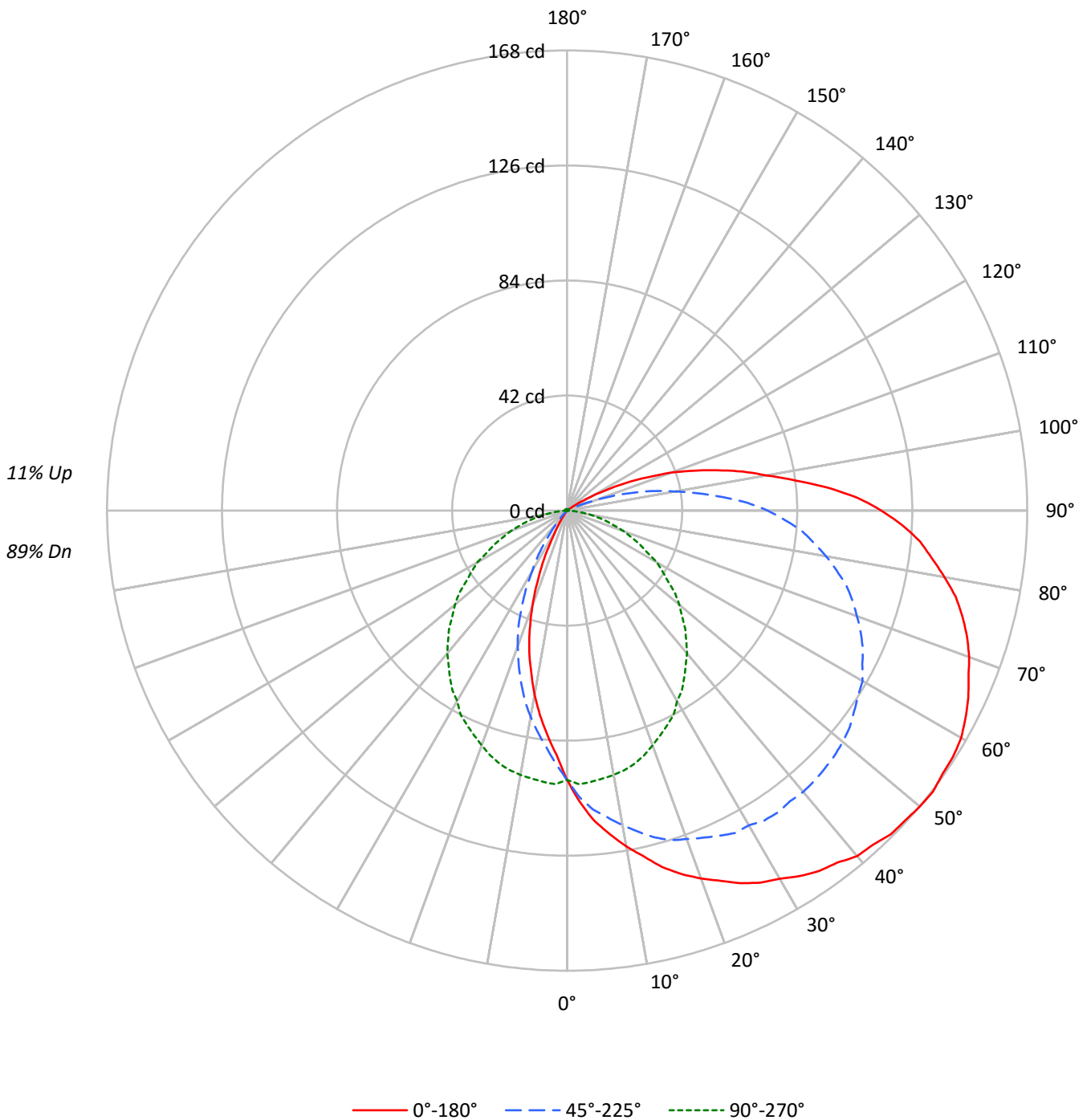
Input Watts (W): 18.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	8707	8707	8707
5°	9296	8827	6729
10°	9519	8792	5230
15°	9748	8733	3862
20°	9875	8552	2564
25°	10004	8388	1406
30°	10063	8145	486
35°	10213	7976	108
40°	10354	7781	19
45°	10465	7521	0
50°	10568	7235	0
55°	10646	6795	0
60°	10770	6534	0
65°	10770	5958	0
70°	10794	5432	0
75°	10804	4743	0
80°	10696	3869	0
85°	10571	2708	25



TEST NUMBER: P273374

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.3	2.2
10°-20°	26.5	6.1
20°-30°	39.3	9.1
30°-40°	47.7	11.0
40°-50°	53.9	12.5
50°-60°	57.2	13.2
60°-70°	56.4	13.0
70°-80°	51.7	11.9
80°-90°	42.7	9.9
90°-100°	28.6	6.6
100°-110°	14.0	3.2
110°-120°	4.3	1.0
120°-130°	0.5	0.1
130°-140°	0.2	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°	75.2	17.4
0°-40°	122.9	28.4
0°-60°	234.0	54.1
0°-90°	384.8	88.9
90°-120°	47.0	10.9
90°-150°	47.8	11.1
90°-180°	48.0	11.1
0°-180°	432.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	98	98	98	98	98	
5°	114	110	99	87	82	11
15°	135	124	96	65	53	38
25°	150	131	86	40	21	69
35°	161	134	74	14	2	101
45°	167	133	61	2	0	129
55°	167	128	45	0	0	150
65°	162	119	29	0	0	160
75°	149	106	15	0	0	158
85°	129	86	3	1	0	108
90°	115	73	0	0	0	63
95°	96	57	0	0	1	73
105°	57	26	0	0	0	60
115°	24	3	0	0	0	25
125°	3	0	1	0	0	3
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



TEST NUMBER: P273374

CATALOG NUMBER: 0.03-5W-827-91-ID-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
2.5°	106.5	105.8	106.2	105.8	105.8	105.5	105.1	105.1	104.8	104.5	104.8
5°	113.7	113.0	113.3	112.6	112.0	111.6	111.3	110.9	110.3	109.9	109.6
7.5°	119.1	118.8	118.4	118.1	117.4	117.1	116.4	115.7	115.0	114.3	113.0
10°	124.5	123.5	123.5	123.2	122.5	121.8	121.1	120.8	119.1	118.4	116.7
12.5°	129.3	129.0	129.0	127.6	126.9	126.6	125.6	124.9	123.2	121.8	120.1
15°	134.8	134.4	134.1	133.4	132.4	131.4	130.3	128.6	127.3	125.2	123.5
17.5°	139.2	138.8	138.5	137.1	136.5	135.4	134.4	132.4	130.3	128.3	126.2
20°	142.9	142.6	141.9	140.9	139.2	138.5	137.1	135.4	133.1	130.7	127.6
22.5°	146.3	146.0	145.3	143.9	142.6	141.6	140.2	137.8	135.4	132.7	129.3
25°	150.1	149.7	148.7	147.3	145.3	144.3	143.3	140.9	137.8	134.8	131.0
27.5°	153.1	152.8	151.8	150.4	148.4	147.3	146.0	142.9	139.9	136.5	132.7
30°	155.2	155.2	154.2	152.4	150.4	149.0	147.7	144.6	140.9	137.1	132.7
32.5°	158.2	158.2	157.2	155.5	153.1	151.8	150.1	146.7	142.6	138.5	134.1
35°	160.6	159.9	158.9	157.2	154.8	153.5	151.8	147.7	143.6	138.8	134.4
37.5°	162.0	161.6	160.6	158.9	156.2	154.5	152.4	148.4	144.3	138.8	133.7
40°	164.7	163.7	162.7	161.0	158.2	156.2	154.2	150.1	145.0	139.9	134.1
42.5°	165.4	165.4	163.7	161.6	158.9	156.9	155.2	150.1	145.3	139.2	133.7
45°	167.1	166.4	165.0	162.7	159.6	157.6	155.9	150.7	145.3	139.5	133.1
47.5°	167.4	167.1	165.4	163.0	159.9	158.2	155.9	150.7	145.3	138.8	132.4
50°	168.1	167.8	166.1	163.3	159.9	158.6	156.2	150.7	144.6	138.5	131.4
52.5°	168.4	167.8	166.4	163.7	160.3	158.2	155.9	150.4	143.9	137.1	130.0
55°	167.4	167.1	165.4	162.7	158.9	156.9	154.5	149.0	142.6	135.4	127.9
57.5°	167.1	166.4	164.4	161.6	157.9	155.9	153.5	148.0	141.2	133.7	125.9
60°	166.1	165.4	163.7	160.6	156.9	154.8	152.1	146.3	139.9	132.4	124.5
62.5°	164.0	163.0	161.3	158.2	154.5	152.1	149.7	143.9	137.1	130.0	121.5
65°	161.6	161.3	159.6	156.5	152.4	150.1	147.7	141.6	134.8	127.3	119.1
67.5°	158.6	158.2	156.5	153.5	149.4	147.0	144.3	138.5	132.0	124.2	116.0
70°	156.2	155.9	153.8	150.7	146.7	143.9	141.6	135.8	129.0	121.1	112.6
72.5°	153.1	152.1	150.7	147.7	143.6	140.9	138.2	132.0	125.6	117.7	109.2
75°	149.4	148.4	146.7	143.9	139.9	137.1	134.4	128.3	121.5	114.0	105.5
77.5°	145.3	144.3	142.6	139.5	135.4	132.7	130.0	124.2	117.1	109.2	100.7
80°	139.9	139.2	137.5	134.8	130.7	128.3	125.6	119.4	112.3	104.5	96.0
82.5°	134.4	134.4	132.4	129.6	125.6	122.8	120.1	114.0	107.5	100.0	90.9
85°	129.3	128.3	126.9	123.9	120.1	117.4	114.3	108.9	102.1	94.3	86.1
87.5°	122.5	121.5	120.1	117.4	113.7	111.3	107.9	102.4	95.3	88.1	79.6
90°	114.7	114.3	112.6	109.6	105.8	103.4	101.1	95.6	88.8	81.3	73.2
92.5°	106.2	105.5	104.5	101.4	98.0	95.6	92.9	87.5	80.6	73.5	65.7
95°	95.6	94.9	93.6	90.9	87.5	85.4	82.3	77.2	70.8	64.3	56.8
97.5°	84.1	83.7	82.0	80.0	76.6	74.5	72.1	67.4	61.6	55.5	48.3
100°	73.8	73.5	72.5	70.4	67.4	65.3	63.0	58.9	53.4	47.3	40.2
102.5°	65.7	65.3	64.0	61.9	59.2	57.2	55.1	50.7	45.6	39.1	33.0
105°	56.8	56.5	55.1	53.4	50.7	48.7	47.0	42.5	37.1	31.3	25.5
107.5°	48.3	47.6	46.6	44.9	42.2	40.8	38.5	34.4	29.6	24.2	18.0
110°	40.5	39.5	38.5	36.8	34.0	32.7	30.6	26.5	22.1	17.0	11.6



TEST NUMBER: P273374

CATALOG NUMBER: 0.03-5W-827-91-ID-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	31.6	31.6	30.3	28.6	26.2	24.5	22.8	18.7	14.6	10.2	5.8
115°	24.2	23.5	22.5	20.8	18.7	17.4	15.3	12.3	8.2	5.1	2.7
117.5°	16.7	16.0	15.3	14.0	11.9	10.5	9.2	6.5	4.4	2.4	0.3
120°	10.5	9.5	9.2	7.8	6.5	5.8	5.1	3.4	2.0	0.3	0.3
122.5°	6.1	5.8	5.4	4.8	3.7	3.1	2.0	1.0	0.3	0.3	0.3
125°	2.7	2.4	2.0	1.0	0.7	0.3	0.3	0.3	0.3	0.3	0.0
127.5°	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.3	0.0	0.0	0.0
130°	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.7	0.0	0.3	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3
135°	0.0	0.0	0.0	0.3	0.3	0.0	0.3	0.3	0.3	0.3	0.3
137.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.3	0.3	0.7
140°	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.3	0.0	0.3
142.5°	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
145°	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3
147.5°	0.0	0.3	0.3	0.3	0.3	0.3	0.7	0.3	0.3	0.3	0.7
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
152.5°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.3
155°	0.3	0.0	0.0	0.3	0.0	0.0	0.3	0.0	0.0	0.3	0.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.3	0.0
160°	0.0	0.0	0.3	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.3
162.5°	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.3	0.3	0.3
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
167.5°	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
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	0.3	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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	0.3	0.3	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0
180°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P273374

CATALOG NUMBER: 0.03-5W-827-91-ID-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
2.5°	103.4	103.4	102.8	102.8	102.4	102.1	101.7	101.4	100.7	100.0	98.7
5°	107.9	106.9	106.2	105.5	105.1	104.8	103.1	101.7	101.1	99.4	97.3
7.5°	111.6	110.3	108.9	107.5	106.9	105.8	104.1	102.8	100.7	98.7	96.0
10°	115.0	113.3	111.6	109.6	108.6	107.9	105.5	103.1	100.7	98.0	94.9
12.5°	118.1	116.0	113.7	111.3	110.3	108.9	106.2	103.1	100.0	97.0	92.9
15°	120.8	118.1	115.4	112.6	110.9	109.6	106.2	103.1	99.4	95.6	90.9
17.5°	122.8	119.4	116.7	113.7	111.6	109.9	106.2	102.4	98.3	93.6	88.5
20°	124.5	120.5	117.1	113.7	111.6	109.6	105.5	101.4	96.6	91.2	86.1
22.5°	125.9	121.8	117.4	113.7	111.3	109.2	104.5	100.0	94.6	88.8	82.7
25°	127.3	122.5	117.4	113.7	110.9	108.6	103.4	98.3	92.9	86.4	79.6
27.5°	128.3	123.2	118.1	113.0	110.3	107.5	102.1	97.0	90.9	84.1	76.6
30°	128.3	122.8	117.4	112.0	108.9	106.2	100.0	94.3	87.5	80.3	72.8
32.5°	129.0	123.2	117.7	111.6	108.6	105.5	99.0	92.6	85.8	77.9	70.1
35°	128.6	122.8	117.1	110.3	106.9	103.4	97.0	90.2	83.0	74.5	66.4
37.5°	127.9	121.8	115.4	108.9	105.1	101.4	94.3	86.8	79.3	71.1	62.3
40°	128.3	121.5	114.7	107.9	104.1	100.0	92.9	85.1	76.9	68.1	59.2
42.5°	127.3	120.1	112.6	105.5	101.7	97.7	89.8	82.0	73.5	64.3	54.8
45°	126.6	119.1	111.6	104.1	100.0	96.0	87.8	79.3	70.4	60.9	51.4
47.5°	125.2	117.7	109.9	101.7	97.3	92.9	84.4	75.9	66.7	56.8	47.0
50°	123.9	116.0	107.9	99.0	94.9	90.5	81.3	72.5	63.3	53.4	42.9
52.5°	122.5	114.3	105.8	97.0	92.6	88.1	78.6	69.1	59.9	49.7	39.5
55°	120.1	111.6	102.8	93.9	89.5	84.4	74.5	65.3	55.5	44.9	34.7
57.5°	118.1	109.6	100.0	90.9	86.1	81.0	71.1	61.6	51.4	41.2	30.6
60°	116.0	107.2	97.7	88.5	83.0	78.3	68.1	58.2	48.0	37.8	27.6
62.5°	113.0	103.4	94.6	84.4	78.9	74.2	63.6	53.4	43.6	32.7	22.8
65°	110.3	101.1	91.2	81.0	75.5	70.8	60.2	50.0	39.5	29.3	19.4
67.5°	106.9	97.3	87.8	77.6	71.8	66.7	55.8	45.6	35.4	25.2	15.3
70°	103.8	93.9	84.1	73.5	68.1	62.6	52.1	41.5	31.3	21.8	12.3
72.5°	100.0	90.5	80.3	70.1	64.0	58.9	48.0	37.4	27.6	18.0	9.2
75°	96.3	86.4	76.2	66.0	60.2	54.8	43.9	33.3	23.8	14.6	6.8
77.5°	91.9	82.3	72.1	61.6	55.8	50.4	39.8	29.6	19.7	11.2	3.7
80°	86.8	77.2	67.0	57.2	51.7	45.9	35.7	25.2	16.0	8.2	2.0
82.5°	81.7	72.5	62.6	52.4	47.0	41.9	31.6	21.4	12.3	5.1	0.7
85°	76.9	67.4	57.5	47.6	42.2	37.4	27.6	18.0	9.2	3.1	0.7
87.5°	70.8	61.3	51.7	41.9	37.1	32.0	22.8	13.6	5.8	1.0	0.3
90°	63.6	54.8	45.6	36.1	31.0	26.9	17.7	9.9	3.4	0.3	0.3
92.5°	56.5	48.0	38.8	29.9	25.5	21.1	12.9	5.8	1.0	0.7	1.0
95°	48.3	40.2	31.3	23.1	19.4	15.3	7.8	2.4	1.0	0.3	0.7
97.5°	40.5	32.7	24.5	16.7	12.9	9.2	3.1	0.7	0.3	0.3	0.3
100°	32.3	25.5	18.0	10.5	7.1	4.4	0.3	0.0	0.0	0.0	0.3
102.5°	25.5	18.7	11.9	5.4	3.1	1.4	0.3	0.3	0.3	0.3	0.7
105°	18.4	12.3	5.8	2.0	0.7	0.0	0.0	0.0	0.3	0.3	0.3
107.5°	12.3	6.1	2.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
110°	6.1	2.7	0.7	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P273374

CATALOG NUMBER: 0.03-5W-827-91-ID-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	2.7	0.7	0.0	0.0	0.3	0.3	0.0	0.0	0.3	0.3	0.3
115°	0.7	0.0	0.3	0.0	0.0	0.3	0.3	0.0	0.0	0.3	0.3
117.5°	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.3	0.3	0.3	0.3
120°	0.3	0.3	0.0	0.3	0.0	0.3	0.3	0.3	0.3	0.0	0.3
122.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
125°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	0.7
127.5°	0.0	0.3	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.3	0.0
130°	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.3
132.5°	0.3	0.3	0.7	0.3	0.3	0.0	0.3	0.7	0.3	0.3	0.3
135°	0.0	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.7	0.3	0.3
137.5°	0.3	0.7	0.7	0.7	0.3	0.3	0.3	0.7	0.7	1.0	0.3
140°	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.3
142.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
145°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
147.5°	0.3	0.3	0.3	0.7	0.3	0.3	0.7	0.7	0.7	0.7	0.3
150°	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.3	0.0
152.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
155°	0.3	0.0	0.3	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3
157.5°	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
160°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	0.3	0.7
162.5°	0.0	0.3	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
165°	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.3
167.5°	0.3	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.3	0.0	0.3
170°	0.3	0.0	0.3	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3
172.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
175°	0.3	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.3	0.3	0.0
177.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.3	0.3
180°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P273374

CATALOG NUMBER: 0.03-5W-827-91-ID-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
2.5°	98.0	97.0	96.6	96.3	95.6	94.6	94.3	93.2	92.6	92.2	91.2
5°	96.0	94.6	93.6	92.6	91.9	90.5	89.2	88.5	86.8	86.4	85.4
7.5°	93.9	91.9	90.2	89.2	88.1	86.1	84.4	83.0	81.7	80.3	79.3
10°	91.9	89.2	87.1	85.8	84.4	82.0	80.0	77.9	76.6	74.5	72.8
12.5°	89.5	86.1	83.7	82.0	80.6	77.6	75.2	73.2	71.1	68.7	66.7
15°	86.8	83.4	80.0	78.3	76.2	73.2	70.8	67.7	65.0	62.3	60.2
17.5°	83.7	79.6	76.2	73.8	72.5	68.4	65.0	61.6	58.9	56.5	53.4
20°	80.6	76.2	71.8	69.8	67.7	63.6	59.6	55.5	52.7	49.3	46.6
22.5°	77.2	72.5	67.4	65.0	63.0	57.8	54.1	49.7	46.6	42.5	39.1
25°	73.5	68.4	63.3	60.6	57.8	52.7	48.0	43.2	39.5	35.4	32.0
27.5°	70.4	64.3	58.5	55.8	53.1	47.3	42.5	37.8	32.7	28.9	24.8
30°	66.0	59.9	53.8	50.4	47.6	41.2	36.1	30.6	25.5	21.4	17.7
32.5°	63.0	56.1	49.7	46.3	43.2	36.4	31.0	25.2	20.1	15.3	11.9
35°	58.5	51.7	44.2	40.8	37.4	30.6	24.5	19.4	14.3	9.9	7.5
37.5°	54.1	46.6	39.1	35.7	32.0	25.2	18.7	13.3	8.8	5.8	4.4
40°	50.7	42.5	34.7	31.3	27.6	20.1	14.0	8.5	5.4	3.7	2.4
42.5°	46.3	37.8	29.9	25.9	22.1	15.0	8.8	5.4	3.4	1.7	0.7
45°	41.9	33.7	25.5	21.4	17.4	10.2	5.8	3.4	1.7	0.7	0.3
47.5°	37.8	28.9	20.8	16.7	12.9	6.5	3.7	1.7	0.3	0.3	0.0
50°	33.3	24.8	16.7	12.6	8.8	4.4	2.4	1.0	0.3	0.0	0.3
52.5°	29.9	21.4	12.6	8.8	6.1	3.1	1.4	1.0	0.7	0.3	0.7
55°	25.5	16.7	8.2	5.1	3.7	1.4	0.3	0.0	0.3	0.3	0.0
57.5°	21.8	12.9	5.4	3.7	2.4	0.7	0.3	0.0	0.0	0.3	0.0
60°	18.0	9.5	3.7	2.4	1.7	1.0	0.7	0.7	0.3	0.7	0.7
62.5°	13.6	6.1	1.7	1.0	0.3	0.3	0.0	0.3	0.3	0.0	0.0
65°	10.5	3.7	1.0	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67.5°	7.1	2.0	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.0	0.0
70°	4.8	1.0	0.3	0.3	0.3	0.3	0.3	0.0	0.3	0.0	0.0
72.5°	2.7	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
75°	1.4	0.7	0.3	0.3	0.7	0.0	0.3	0.3	0.3	0.0	0.3
77.5°	0.3	0.3	0.0	0.3	0.3	0.3	0.0	0.3	0.0	0.3	0.0
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3	0.0	0.0
82.5°	0.3	0.3	0.3	0.3	0.3	0.7	0.3	0.3	0.0	0.3	0.0
85°	0.7	0.7	0.7	0.7	0.3	0.7	0.3	0.7	0.7	0.3	0.7
87.5°	0.3	0.7	0.7	0.3	0.3	0.7	0.3	0.3	0.3	0.3	0.3
90°	0.3	0.7	0.7	0.3	0.3	0.3	0.3	0.7	0.3	0.3	0.3
92.5°	0.7	1.0	1.0	0.7	0.7	0.7	0.7	0.7	1.0	0.7	0.3
95°	1.0	0.7	1.0	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.3
97.5°	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3
100°	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.0
102.5°	0.3	0.3	0.7	0.3	0.3	0.7	0.7	0.3	0.3	0.3	0.3
105°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
107.5°	0.0	0.3	0.3	0.3	0.3	0.0	0.0	0.3	0.3	0.0	0.3
110°	0.3	0.3	0.3	0.0	0.0	0.3	0.0	0.3	0.3	0.3	0.0



TEST NUMBER: P273374

CATALOG NUMBER: 0.03-5W-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°	0.3	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3
120°	0.0	0.3	0.3	0.0	0.3	0.3	0.3	0.3	0.0	0.3	0.0
122.5°	0.3	0.3	0.3	0.3	0.7	0.3	0.0	0.3	0.3	0.7	0.3
125°	0.3	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
127.5°	0.0	0.3	0.3	0.3	0.3	0.0	0.3	0.0	0.0	0.0	0.0
130°	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0
132.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.3	0.3	0.3	0.3
135°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3	0.3
137.5°	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.7	0.3	0.7	0.3
140°	0.3	0.0	0.0	0.3	0.3	0.3	0.3	0.0	0.3	0.0	0.0
142.5°	0.3	0.3	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.0	0.0
145°	0.3	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.0
147.5°	0.3	0.3	0.7	0.7	0.3	0.3	0.7	0.3	0.3	0.3	0.3
150°	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.3	0.3	0.7	0.3	0.7	0.3	0.3	0.3	0.3	0.3	0.3
155°	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.0
157.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.3	0.0	0.0
160°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
162.5°	0.3	0.3	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
165°	0.3	0.0	0.3	0.3	0.3	0.0	0.3	0.3	0.0	0.3	0.0
167.5°	0.3	0.3	0.3	0.0	0.0	0.3	0.3	0.3	0.0	0.3	0.0
170°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
172.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3	0.3
175°	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
177.5°	0.3	0.3	0.3	0.7	0.0	0.3	0.3	0.3	0.0	0.3	0.0
180°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P273374

CATALOG NUMBER: 0.03-5W-827-91-ID-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
2.5°	90.9	90.2	89.8	89.5	89.2	89.2	89.5	89.2
5°	84.7	83.7	83.4	83.0	82.7	82.3	82.7	82.3
7.5°	77.9	77.2	76.9	76.2	75.5	75.5	75.5	75.5
10°	71.8	70.8	70.1	69.4	68.7	68.4	68.4	68.4
12.5°	65.3	63.6	63.0	62.6	61.3	61.3	60.9	60.6
15°	58.5	56.8	56.1	55.1	54.4	53.4	53.8	53.4
17.5°	51.7	49.7	48.7	47.6	47.0	45.9	45.9	45.3
20°	44.2	42.2	41.2	40.2	38.8	37.8	37.8	37.1
22.5°	36.8	34.0	33.3	32.0	31.0	29.6	29.3	28.6
25°	28.9	26.5	25.2	24.2	22.8	21.4	20.8	21.1
27.5°	21.8	19.1	18.0	17.0	15.3	14.0	13.3	13.3
30°	14.3	11.6	10.5	9.9	8.5	7.8	7.1	7.5
32.5°	9.2	7.8	7.1	6.1	5.4	4.8	4.8	4.4
35°	5.4	4.4	3.7	3.4	2.4	2.0	1.7	1.7
37.5°	2.7	1.7	1.0	0.7	0.3	0.3	0.3	0.0
40°	1.4	0.7	0.3	0.3	0.0	0.3	0.3	0.3
42.5°	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.3	0.0	0.0	0.0	0.0	0.3	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.3	0.3	0.0	0.0	0.3	0.0	0.0	0.0
52.5°	0.3	0.7	0.3	0.7	0.3	0.3	0.3	0.0
55°	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.3	0.3	0.7	0.0	0.3	0.7	0.3	0.0
62.5°	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.3	0.3	0.3	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°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.3	0.3	0.3	0.3	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0
80°	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.3	0.0	0.0	0.3	0.0	0.3	0.0
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
87.5°	0.3	0.3	0.3	0.0	0.3	0.3	0.0	0.3
90°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.3
92.5°	0.7	0.3	0.3	0.7	0.3	0.3	0.3	1.0
95°	0.3	0.3	0.3	0.7	0.7	0.3	0.3	0.7
97.5°	0.0	0.3	0.0	0.0	0.3	0.3	0.3	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.3	0.3	0.0	0.3	0.7	0.3	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
107.5°	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3
110°	0.3	0.3	0.3	0.0	0.0	0.3	0.3	0.0



TEST NUMBER: P273374

CATALOG NUMBER: 0.03-5W-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	0.3	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.3
125°	0.3	0.3	0.3	0.3	0.0	0.3	0.3	0.3
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°	0.3	0.0	0.0	0.0	0.3	0.3	0.0	0.0
135°	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0
137.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	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	0.3	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.3	0.3	0.3	0.3	0.0	0.0	0.3	0.0
155°	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
160°	0.3	0.0	0.3	0.3	0.3	0.3	0.0	0.0
162.5°	0.0	0.0	0.3	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	0.3	0.0	0.0	0.0	0.0	0.3	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

(END OF REPORT)