

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: P273364

Luminaire Tested: **0.03-3W-835-91-ID-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273364
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-835-91-ID-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES .75 LINEAR LED LUMINAIRE, 90 DEGREE ASYMMETRIC OPTIC.
HIGH OUTPUT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 318.5 lumens
Efficiency: N/A
Efficacy: 25.5 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

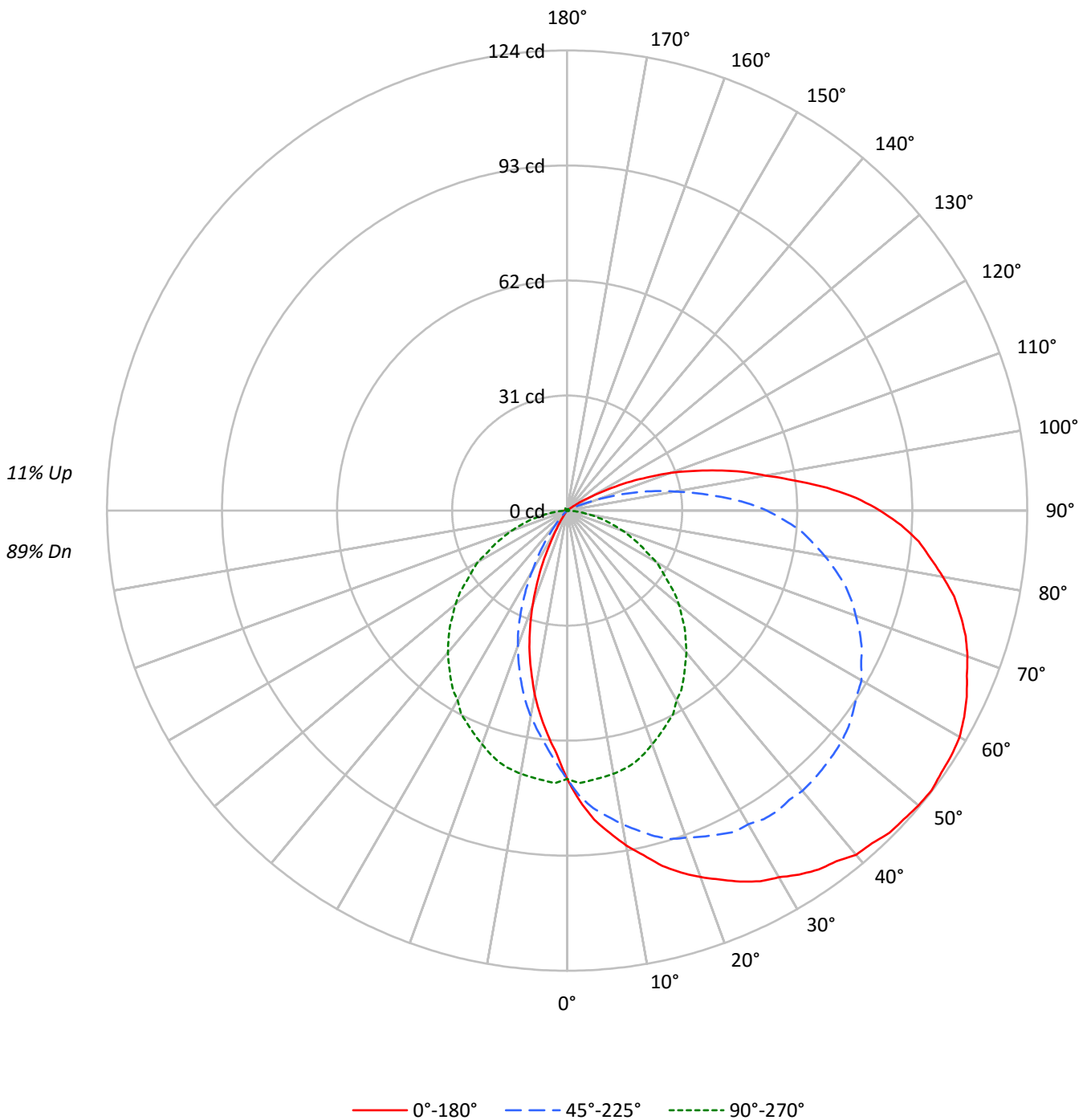
Input Watts (W): 12.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	72	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	46	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°	6404	6404	6404
5°	6835	6482	4946
10°	7003	6459	3846
15°	7167	6422	2842
20°	7263	6282	1887
25°	7351	6165	1033
30°	7398	5985	357
35°	7511	5867	83
40°	7613	5713	19
45°	7691	5533	0
50°	7771	5325	0
55°	7829	4994	0
60°	7917	4806	0
65°	7918	4372	0
70°	7933	3987	0
75°	7941	3509	0
80°	7860	2831	0
85°	7775	2009	25



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	2.2
10°-20°	19.5	6.1
20°-30°	28.9	9.1
30°-40°	35.1	11.0
40°-50°	39.6	12.4
50°-60°	42.1	13.2
60°-70°	41.5	13.0
70°-80°	38.0	11.9
80°-90°	31.4	9.9
90°-100°	21.1	6.6
100°-110°	10.4	3.3
110°-120°	3.2	1.0
120°-130°	0.4	0.1
130°-140°	0.2	0.1
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°	55.3	17.4
0°-40°	90.4	28.4
0°-60°	172.1	54.0
0°-90°	283.0	88.9
90°-120°	34.6	10.9
90°-150°	35.4	11.1
90°-180°	36.0	11.3
0°-180°	318.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	72	72	72	72	72	
5°	84	80	73	64	60	8
15°	99	91	70	48	39	28
25°	110	96	64	29	16	51
35°	118	99	55	10	1	74
45°	123	98	45	1	0	95
55°	123	94	33	0	0	110
65°	119	88	22	0	0	118
75°	110	78	11	0	0	116
85°	95	63	2	0	0	79
90°	84	54	0	0	0	46
95°	70	42	0	0	0	54
105°	42	19	0	0	0	44
115°	18	2	0	0	0	18
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°	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
2.5°	78.3	77.8	78.0	77.8	77.8	77.5	77.3	77.3	77.0	76.8	77.0
5°	83.6	83.1	83.3	82.8	82.3	82.1	81.8	81.6	81.1	80.8	80.5
7.5°	87.6	87.3	87.1	86.8	86.3	86.1	85.6	85.1	84.6	84.1	83.1
10°	91.6	90.8	90.8	90.6	90.1	89.6	89.1	88.8	87.6	87.1	85.8
12.5°	95.1	94.8	94.8	93.8	93.3	93.1	92.3	91.8	90.6	89.6	88.3
15°	99.1	98.8	98.6	98.1	97.3	96.6	95.8	94.6	93.6	92.1	90.8
17.5°	102.3	102.1	101.8	100.8	100.3	99.6	98.8	97.3	95.8	94.3	92.8
20°	105.1	104.8	104.3	103.6	102.3	101.8	100.8	99.6	97.8	96.1	93.8
22.5°	107.6	107.3	106.8	105.8	104.8	104.1	103.1	101.3	99.6	97.6	95.1
25°	110.3	110.1	109.3	108.3	106.8	106.1	105.3	103.6	101.3	99.1	96.3
27.5°	112.6	112.3	111.6	110.6	109.1	108.3	107.3	105.1	102.8	100.3	97.6
30°	114.1	114.1	113.3	112.1	110.6	109.6	108.6	106.3	103.6	100.8	97.6
32.5°	116.3	116.3	115.6	114.3	112.6	111.6	110.3	107.8	104.8	101.8	98.6
35°	118.1	117.6	116.8	115.6	113.8	112.8	111.6	108.6	105.6	102.1	98.8
37.5°	119.1	118.8	118.1	116.8	114.8	113.6	112.1	109.1	106.1	102.1	98.3
40°	121.1	120.3	119.6	118.3	116.3	114.8	113.3	110.3	106.6	102.8	98.6
42.5°	121.6	121.6	120.3	118.8	116.8	115.3	114.1	110.3	106.8	102.3	98.3
45°	122.8	122.3	121.3	119.6	117.3	115.8	114.6	110.8	106.8	102.6	97.8
47.5°	123.1	122.8	121.6	119.8	117.6	116.3	114.6	110.8	106.8	102.1	97.3
50°	123.6	123.3	122.1	120.1	117.6	116.6	114.8	110.8	106.3	101.8	96.6
52.5°	123.8	123.3	122.3	120.3	117.8	116.3	114.6	110.6	105.8	100.8	95.6
55°	123.1	122.8	121.6	119.6	116.8	115.3	113.6	109.6	104.8	99.6	94.1
57.5°	122.8	122.3	120.8	118.8	116.1	114.6	112.8	108.8	103.8	98.3	92.6
60°	122.1	121.6	120.3	118.1	115.3	113.8	111.8	107.6	102.8	97.3	91.6
62.5°	120.6	119.8	118.6	116.3	113.6	111.8	110.1	105.8	100.8	95.6	89.3
65°	118.8	118.6	117.3	115.1	112.1	110.3	108.6	104.1	99.1	93.6	87.6
67.5°	116.6	116.3	115.1	112.8	109.8	108.1	106.1	101.8	97.1	91.3	85.3
70°	114.8	114.6	113.1	110.8	107.8	105.8	104.1	99.8	94.8	89.1	82.8
72.5°	112.6	111.8	110.8	108.6	105.6	103.6	101.6	97.1	92.3	86.6	80.3
75°	109.8	109.1	107.8	105.8	102.8	100.8	98.8	94.3	89.3	83.8	77.5
77.5°	106.8	106.1	104.8	102.6	99.6	97.6	95.6	91.3	86.1	80.3	74.0
80°	102.8	102.3	101.1	99.1	96.1	94.3	92.3	87.8	82.6	76.8	70.5
82.5°	98.8	98.8	97.3	95.3	92.3	90.3	88.3	83.8	79.0	73.5	66.8
85°	95.1	94.3	93.3	91.1	88.3	86.3	84.1	80.0	75.0	69.3	63.3
87.5°	90.1	89.3	88.3	86.3	83.6	81.8	79.3	75.3	70.0	64.8	58.5
90°	84.3	84.1	82.8	80.5	77.8	76.0	74.3	70.3	65.3	59.8	53.8
92.5°	78.0	77.5	76.8	74.5	72.0	70.3	68.3	64.3	59.3	54.0	48.3
95°	70.3	69.8	68.8	66.8	64.3	62.8	60.5	56.8	52.0	47.3	41.8
97.5°	61.8	61.5	60.3	58.8	56.3	54.8	53.0	49.5	45.3	40.8	35.5
100°	54.3	54.0	53.3	51.8	49.5	48.0	46.3	43.3	39.3	34.8	29.5
102.5°	48.3	48.0	47.0	45.5	43.5	42.0	40.5	37.3	33.5	28.8	24.3
105°	41.8	41.5	40.5	39.3	37.3	35.8	34.5	31.3	27.3	23.0	18.8
107.5°	35.5	35.0	34.3	33.0	31.0	30.0	28.3	25.3	21.8	17.8	13.3
110°	29.8	29.0	28.3	27.0	25.0	24.0	22.5	19.5	16.3	12.5	8.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	23.3	23.3	22.3	21.0	19.3	18.0	16.8	13.8	10.8	7.5	4.3
115°	17.8	17.3	16.5	15.3	13.8	12.8	11.3	9.0	6.0	3.8	2.0
117.5°	12.3	11.8	11.3	10.3	8.8	7.8	6.8	4.8	3.3	1.8	0.3
120°	7.8	7.0	6.8	5.8	4.8	4.3	3.8	2.5	1.5	0.3	0.3
122.5°	4.5	4.3	4.0	3.5	2.8	2.3	1.5	0.8	0.3	0.3	0.3
125°	2.0	1.8	1.5	0.8	0.5	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°	0.5	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	0.5	0.3	0.3	0.5
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	0.5	0.3	0.3	0.3	0.5
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	0.5	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
2.5°	76.0	76.0	75.5	75.5	75.3	75.0	74.8	74.5	74.0	73.5	72.5
5°	79.3	78.5	78.0	77.5	77.3	77.0	75.8	74.8	74.3	73.0	71.5
7.5°	82.1	81.1	80.0	79.0	78.5	77.8	76.5	75.5	74.0	72.5	70.5
10°	84.6	83.3	82.1	80.5	79.8	79.3	77.5	75.8	74.0	72.0	69.8
12.5°	86.8	85.3	83.6	81.8	81.1	80.0	78.0	75.8	73.5	71.3	68.3
15°	88.8	86.8	84.8	82.8	81.6	80.5	78.0	75.8	73.0	70.3	66.8
17.5°	90.3	87.8	85.8	83.6	82.1	80.8	78.0	75.3	72.3	68.8	65.0
20°	91.6	88.6	86.1	83.6	82.1	80.5	77.5	74.5	71.0	67.0	63.3
22.5°	92.6	89.6	86.3	83.6	81.8	80.3	76.8	73.5	69.5	65.3	60.8
25°	93.6	90.1	86.3	83.6	81.6	79.8	76.0	72.3	68.3	63.5	58.5
27.5°	94.3	90.6	86.8	83.1	81.1	79.0	75.0	71.3	66.8	61.8	56.3
30°	94.3	90.3	86.3	82.3	80.0	78.0	73.5	69.3	64.3	59.0	53.5
32.5°	94.8	90.6	86.6	82.1	79.8	77.5	72.8	68.0	63.0	57.3	51.5
35°	94.6	90.3	86.1	81.1	78.5	76.0	71.3	66.3	61.0	54.8	48.8
37.5°	94.1	89.6	84.8	80.0	77.3	74.5	69.3	63.8	58.3	52.3	45.8
40°	94.3	89.3	84.3	79.3	76.5	73.5	68.3	62.5	56.5	50.0	43.5
42.5°	93.6	88.3	82.8	77.5	74.8	71.8	66.0	60.3	54.0	47.3	40.3
45°	93.1	87.6	82.1	76.5	73.5	70.5	64.5	58.3	51.8	44.8	37.8
47.5°	92.1	86.6	80.8	74.8	71.5	68.3	62.0	55.8	49.0	41.8	34.5
50°	91.1	85.3	79.3	72.8	69.8	66.5	59.8	53.3	46.5	39.3	31.5
52.5°	90.1	84.1	77.8	71.3	68.0	64.8	57.8	50.8	44.0	36.5	29.0
55°	88.3	82.1	75.5	69.0	65.8	62.0	54.8	48.0	40.8	33.0	25.5
57.5°	86.8	80.5	73.5	66.8	63.3	59.5	52.3	45.3	37.8	30.3	22.5
60°	85.3	78.8	71.8	65.0	61.0	57.5	50.0	42.8	35.3	27.8	20.3
62.5°	83.1	76.0	69.5	62.0	58.0	54.5	46.8	39.3	32.0	24.0	16.8
65°	81.1	74.3	67.0	59.5	55.5	52.0	44.3	36.8	29.0	21.5	14.3
67.5°	78.5	71.5	64.5	57.0	52.8	49.0	41.0	33.5	26.0	18.5	11.3
70°	76.3	69.0	61.8	54.0	50.0	46.0	38.3	30.5	23.0	16.0	9.0
72.5°	73.5	66.5	59.0	51.5	47.0	43.3	35.3	27.5	20.3	13.3	6.8
75°	70.8	63.5	56.0	48.5	44.3	40.3	32.3	24.5	17.5	10.8	5.0
77.5°	67.5	60.5	53.0	45.3	41.0	37.0	29.3	21.8	14.5	8.3	2.8
80°	63.8	56.8	49.3	42.0	38.0	33.8	26.3	18.5	11.8	6.0	1.5
82.5°	60.0	53.3	46.0	38.5	34.5	30.8	23.3	15.8	9.0	3.8	0.5
85°	56.5	49.5	42.3	35.0	31.0	27.5	20.3	13.3	6.8	2.3	0.5
87.5°	52.0	45.0	38.0	30.8	27.3	23.5	16.8	10.0	4.3	0.8	0.3
90°	46.8	40.3	33.5	26.5	22.8	19.8	13.0	7.3	2.5	0.3	0.3
92.5°	41.5	35.3	28.5	22.0	18.8	15.5	9.5	4.3	0.8	0.5	0.8
95°	35.5	29.5	23.0	17.0	14.3	11.3	5.8	1.8	0.8	0.3	0.5
97.5°	29.8	24.0	18.0	12.3	9.5	6.8	2.3	0.5	0.3	0.3	0.3
100°	23.8	18.8	13.3	7.8	5.3	3.3	0.3	0.0	0.0	0.0	0.3
102.5°	18.8	13.8	8.8	4.0	2.3	1.0	0.3	0.3	0.3	0.3	0.5
105°	13.5	9.0	4.3	1.5	0.5	0.0	0.0	0.0	0.3	0.3	0.3
107.5°	9.0	4.5	1.8	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
110°	4.5	2.0	0.5	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P273364

CATALOG NUMBER: 0.03-3W-835-91-ID-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	2.0	0.5	0.0	0.0	0.3	0.3	0.0	0.0	0.3	0.3	0.3
115°	0.5	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	0.5	0.5	0.5
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	0.5	0.3	0.3	0.0	0.3	0.5	0.3	0.3	0.3
135°	0.0	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.5	0.3	0.3
137.5°	0.3	0.5	0.5	0.5	0.3	0.3	0.3	0.5	0.5	0.8	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	0.5	0.3	0.3	0.5	0.5	0.5	0.5	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	0.5	0.5	0.3	0.5
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	0.5	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: P273364

CATALOG NUMBER: 0.03-3W-835-91-ID-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
2.5°	72.0	71.3	71.0	70.8	70.3	69.5	69.3	68.5	68.0	67.8	67.0
5°	70.5	69.5	68.8	68.0	67.5	66.5	65.5	65.0	63.8	63.5	62.8
7.5°	69.0	67.5	66.3	65.5	64.8	63.3	62.0	61.0	60.0	59.0	58.3
10°	67.5	65.5	64.0	63.0	62.0	60.3	58.8	57.3	56.3	54.8	53.5
12.5°	65.8	63.3	61.5	60.3	59.3	57.0	55.3	53.8	52.3	50.5	49.0
15°	63.8	61.3	58.8	57.5	56.0	53.8	52.0	49.8	47.8	45.8	44.3
17.5°	61.5	58.5	56.0	54.3	53.3	50.3	47.8	45.3	43.3	41.5	39.3
20°	59.3	56.0	52.8	51.3	49.8	46.8	43.8	40.8	38.8	36.3	34.3
22.5°	56.8	53.3	49.5	47.8	46.3	42.5	39.8	36.5	34.3	31.3	28.8
25°	54.0	50.3	46.5	44.5	42.5	38.8	35.3	31.8	29.0	26.0	23.5
27.5°	51.8	47.3	43.0	41.0	39.0	34.8	31.3	27.8	24.0	21.3	18.3
30°	48.5	44.0	39.5	37.0	35.0	30.3	26.5	22.5	18.8	15.8	13.0
32.5°	46.3	41.3	36.5	34.0	31.8	26.8	22.8	18.5	14.8	11.3	8.8
35°	43.0	38.0	32.5	30.0	27.5	22.5	18.0	14.3	10.5	7.3	5.5
37.5°	39.8	34.3	28.8	26.3	23.5	18.5	13.8	9.8	6.5	4.3	3.3
40°	37.3	31.3	25.5	23.0	20.3	14.8	10.3	6.3	4.0	2.8	1.8
42.5°	34.0	27.8	22.0	19.0	16.3	11.0	6.5	4.0	2.5	1.3	0.5
45°	30.8	24.8	18.8	15.8	12.8	7.5	4.3	2.5	1.3	0.5	0.3
47.5°	27.8	21.3	15.3	12.3	9.5	4.8	2.8	1.3	0.3	0.3	0.0
50°	24.5	18.3	12.3	9.3	6.5	3.3	1.8	0.8	0.3	0.0	0.3
52.5°	22.0	15.8	9.3	6.5	4.5	2.3	1.0	0.8	0.5	0.3	0.5
55°	18.8	12.3	6.0	3.8	2.8	1.0	0.3	0.0	0.3	0.3	0.0
57.5°	16.0	9.5	4.0	2.8	1.8	0.5	0.3	0.0	0.0	0.3	0.0
60°	13.3	7.0	2.8	1.8	1.3	0.8	0.5	0.5	0.3	0.5	0.5
62.5°	10.0	4.5	1.3	0.8	0.3	0.3	0.0	0.3	0.3	0.0	0.0
65°	7.8	2.8	0.8	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67.5°	5.3	1.5	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.0	0.0
70°	3.5	0.8	0.3	0.3	0.3	0.3	0.3	0.0	0.3	0.0	0.0
72.5°	2.0	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
75°	1.0	0.5	0.3	0.3	0.5	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	0.5	0.3	0.3	0.0	0.3	0.0
85°	0.5	0.5	0.5	0.5	0.3	0.5	0.3	0.5	0.5	0.3	0.5
87.5°	0.3	0.5	0.5	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3
90°	0.3	0.5	0.5	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3
92.5°	0.5	0.8	0.8	0.5	0.5	0.5	0.5	0.5	0.8	0.5	0.3
95°	0.8	0.5	0.8	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3
97.5°	0.5	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	0.5	0.3	0.3	0.5	0.5	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: P273364

CATALOG NUMBER: 0.03-3W-835-91-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	0.5	0.3	0.0	0.3	0.3	0.5	0.3
125°	0.3	0.5	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	0.5	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	0.5	0.5	0.5	0.5	0.5	0.3	0.5	0.3	0.5	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	0.5	0.5	0.3	0.3	0.5	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	0.5	0.3	0.5	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	0.5	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: P273364

CATALOG NUMBER: 0.03-3W-835-91-ID-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
2.5°	66.8	66.3	66.0	65.8	65.5	65.5	65.8	65.5
5°	62.3	61.5	61.3	61.0	60.8	60.5	60.8	60.5
7.5°	57.3	56.8	56.5	56.0	55.5	55.5	55.5	55.5
10°	52.8	52.0	51.5	51.0	50.5	50.3	50.3	50.3
12.5°	48.0	46.8	46.3	46.0	45.0	45.0	44.8	44.5
15°	43.0	41.8	41.3	40.5	40.0	39.3	39.5	39.3
17.5°	38.0	36.5	35.8	35.0	34.5	33.8	33.8	33.3
20°	32.5	31.0	30.3	29.5	28.5	27.8	27.8	27.3
22.5°	27.0	25.0	24.5	23.5	22.8	21.8	21.5	21.0
25°	21.3	19.5	18.5	17.8	16.8	15.8	15.3	15.5
27.5°	16.0	14.0	13.3	12.5	11.3	10.3	9.8	9.8
30°	10.5	8.5	7.8	7.3	6.3	5.8	5.3	5.5
32.5°	6.8	5.8	5.3	4.5	4.0	3.5	3.5	3.3
35°	4.0	3.3	2.8	2.5	1.8	1.5	1.3	1.3
37.5°	2.0	1.3	0.8	0.5	0.3	0.3	0.3	0.0
40°	1.0	0.5	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	0.5	0.3	0.5	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	0.5	0.0	0.3	0.5	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°	0.5	0.3	0.3	0.5	0.3	0.3	0.3	0.8
95°	0.3	0.3	0.3	0.5	0.5	0.3	0.3	0.5
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	0.5	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: P273364

CATALOG NUMBER: 0.03-3W-835-91-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)