

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: P273353

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273353
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: 0.03-3W-827-90-ID-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES .75 LINEAR LED LUMINAIRE, 90 DEGREE SYMMETRIC OPTIC.
HIGH OUTPUT
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 605.4 lumens
Efficiency: N/A
Efficacy: 48.4 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.2 / 1.52
Luminous Opening: Rectangular (W 2.92' x L: 0.06' x H: 0')
CIE Type: Direct

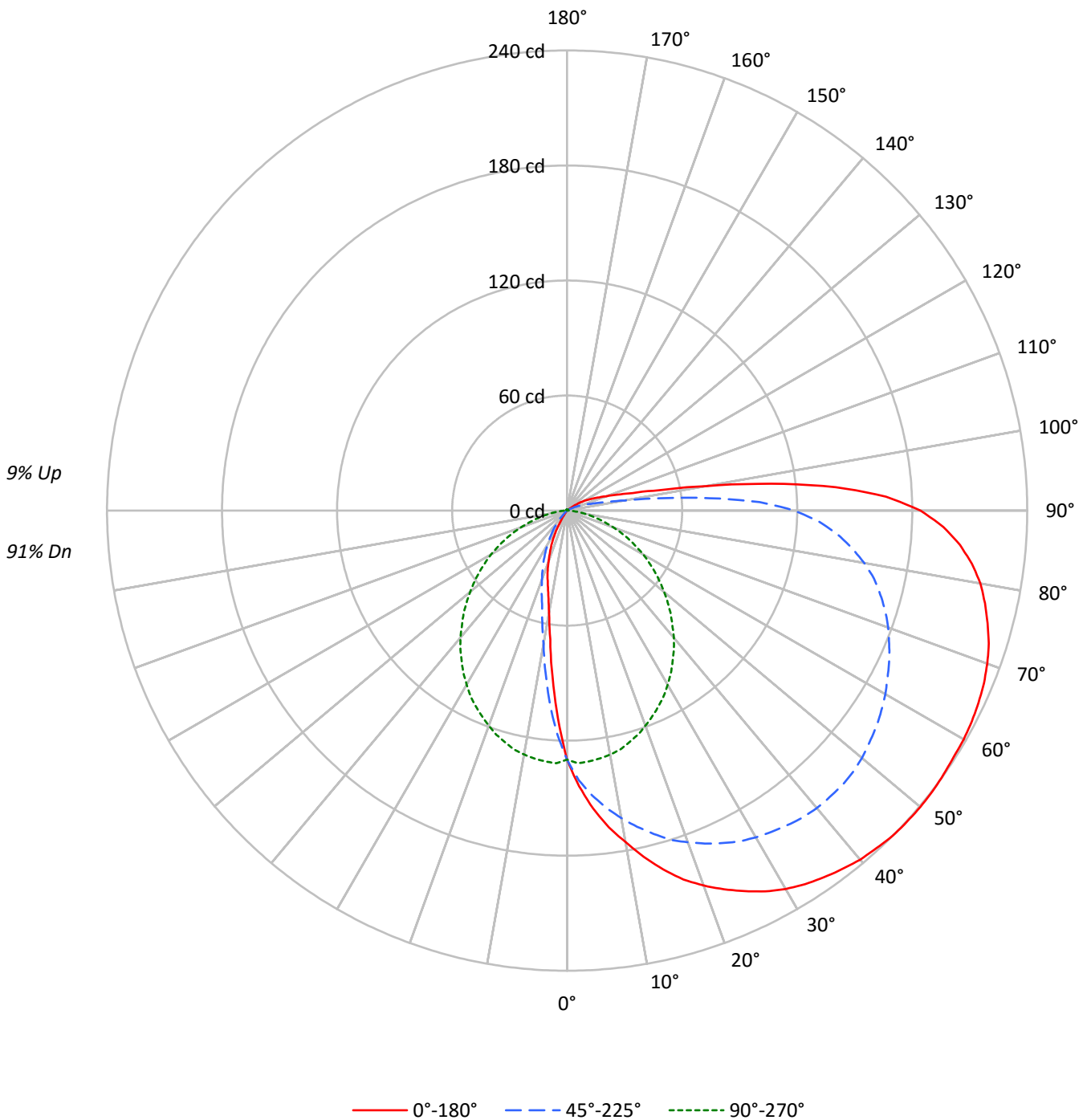
Input Watts (W): 12.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	29	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°	7670	7670	7670
5°	9247	7783	5180
10°	10529	7747	3238
15°	11847	7647	2378
20°	13076	7503	1791
25°	14268	7343	1231
30°	15539	7146	634
35°	16832	6913	137
40°	18322	6675	8
45°	20041	6380	0
50°	22093	6063	0
55°	24687	5755	0
60°	28201	5421	0
65°	33085	4988	14
70°	40261	4420	0
75°	51788	3810	0
80°	74435	3094	34
85°	139361	2371	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.8	1.9
10°-20°	32.9	5.4
20°-30°	51.4	8.5
30°-40°	65.9	10.9
40°-50°	76.8	12.7
50°-60°	82.8	13.7
60°-70°	83.6	13.8
70°-80°	78.9	13.0
80°-90°	67.9	11.2
90°-100°	39.4	6.5
100°-110°	9.7	1.6
110°-120°	3.2	0.5
120°-130°	0.8	0.1
130°-140°	0.3	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°	96.0	15.9
0°-40°	162.0	26.7
0°-60°	321.6	53.1
0°-90°	551.9	91.2
90°-120°	52.3	8.6
90°-150°	53.5	8.8
90°-180°	53.0	8.8
0°-180°	605.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	130	130	130	130	130	
5°	156	149	131	102	87	15
15°	194	175	125	50	39	55
25°	219	191	113	29	19	101
35°	234	200	96	13	2	147
45°	240	203	76	2	0	186
55°	240	197	56	0	0	215
65°	237	185	36	0	0	235
75°	227	169	17	0	0	240
85°	206	142	4	0	0	171
90°	184	118	1	0	0	100
95°	141	74	1	0	0	100
105°	35	14	0	0	0	42
115°	15	4	0	0	0	15
125°	4	0	0	0	0	4
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°	129.9	129.9	129.9	129.9	129.9	129.9	129.9	129.9	129.9	129.9	129.9
2.5°	143.9	143.0	143.1	143.1	142.3	142.1	141.8	140.9	140.8	140.8	139.2
5°	156.0	155.2	155.1	154.7	153.4	152.8	152.0	150.8	149.9	149.0	146.9
7.5°	166.6	165.7	165.4	164.7	163.3	162.3	160.9	159.3	157.8	156.3	153.5
10°	175.6	174.9	174.3	173.5	171.9	170.6	168.9	167.0	165.4	162.9	159.6
12.5°	185.0	184.1	183.5	182.3	180.9	179.1	177.0	174.3	172.2	168.9	165.0
15°	193.8	192.9	192.1	190.6	189.0	186.6	184.0	181.1	178.6	174.6	169.8
17.5°	201.7	200.8	200.0	198.5	196.5	193.8	190.8	187.2	184.0	180.1	174.6
20°	208.1	207.1	206.3	205.0	202.6	199.7	196.5	192.6	189.0	184.1	178.5
22.5°	213.8	212.7	211.8	210.5	207.9	205.0	201.3	197.2	193.3	188.0	181.7
25°	219.0	218.0	217.0	215.7	212.9	209.6	206.0	201.6	197.1	191.4	184.6
27.5°	223.9	223.0	222.1	220.2	217.6	214.2	210.4	205.5	200.5	194.5	187.1
30°	227.9	227.0	226.0	224.3	221.5	218.0	213.8	208.6	203.2	196.8	189.1
32.5°	231.0	230.2	229.4	227.4	224.7	221.0	216.4	211.2	205.4	198.6	190.7
35°	233.5	233.3	232.2	230.0	227.5	223.6	218.9	213.7	207.4	200.3	191.8
37.5°	235.7	235.6	234.6	232.3	229.6	225.9	220.9	215.7	209.0	201.8	192.8
40°	237.7	237.4	236.4	234.1	231.6	227.7	222.6	217.1	210.2	202.6	193.3
42.5°	238.8	238.7	237.7	235.2	232.6	228.6	223.6	217.6	211.0	202.7	193.3
45°	240.0	239.8	238.5	236.1	233.5	229.4	224.4	218.1	211.2	202.7	193.0
47.5°	240.3	240.1	238.8	236.4	233.6	229.5	224.6	217.9	210.6	202.1	191.9
50°	240.5	240.3	238.8	236.6	233.3	229.5	223.9	217.5	210.0	200.7	190.2
52.5°	240.3	239.8	238.4	235.9	232.8	228.8	223.1	216.7	208.4	198.7	188.0
55°	239.8	239.3	237.8	235.3	232.3	227.8	222.2	215.3	206.8	196.8	185.3
57.5°	239.1	238.5	236.9	234.6	231.2	226.8	221.1	213.6	204.8	194.3	182.3
60°	238.8	238.2	236.3	233.8	230.4	225.6	219.6	211.8	202.7	191.6	179.1
62.5°	238.0	237.3	235.6	233.0	229.1	224.4	217.9	209.9	200.2	188.4	175.1
65°	236.8	236.1	234.3	231.9	227.8	223.0	216.2	208.1	197.7	185.4	170.9
67.5°	235.3	234.6	232.5	229.9	225.6	220.7	213.8	205.3	195.1	181.8	166.4
70°	233.2	232.6	230.5	227.8	223.6	218.1	211.5	202.7	191.8	178.2	161.8
72.5°	230.6	230.0	227.9	224.9	221.0	215.2	208.5	199.7	188.1	174.0	156.8
75°	227.0	226.7	224.6	221.6	217.4	211.8	204.7	195.8	184.1	169.1	151.0
77.5°	223.2	222.7	220.7	217.5	213.1	207.6	200.3	190.9	179.2	164.0	145.3
80°	218.9	218.3	216.3	212.9	208.2	202.4	195.1	185.3	173.0	157.3	139.0
82.5°	212.9	212.5	210.7	207.3	202.6	196.5	189.1	179.0	166.4	149.8	132.0
85°	205.7	205.3	203.6	200.2	195.4	189.3	181.6	171.8	157.9	141.5	124.8
87.5°	196.4	196.3	194.3	190.8	186.1	179.9	171.9	161.4	147.6	131.5	114.9
90°	184.3	183.9	181.3	178.1	173.3	166.6	158.8	148.3	133.7	118.4	103.0
92.5°	166.5	166.6	163.6	160.4	155.2	148.1	140.5	130.4	114.6	100.5	85.5
95°	140.6	141.1	138.7	134.2	128.9	122.2	113.5	103.4	88.1	74.4	62.0
97.5°	107.3	107.0	104.7	99.0	95.2	87.0	80.1	70.4	59.2	48.8	39.7
100°	73.4	73.7	71.7	68.1	63.6	57.2	52.0	44.7	37.3	30.4	24.3
102.5°	48.8	49.3	47.2	45.4	42.1	38.4	34.1	30.0	24.6	20.1	16.2
105°	35.3	35.5	34.4	32.1	29.9	27.7	24.5	21.3	17.7	14.3	11.4
107.5°	27.4	27.4	26.6	24.8	23.4	21.1	18.8	16.2	13.2	10.6	8.0
110°	22.0	22.0	21.3	20.1	18.5	16.8	14.8	12.6	10.1	8.0	5.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	18.0	17.9	17.4	16.2	15.0	13.6	11.7	9.9	7.8	5.9	4.3
115°	14.8	14.7	14.2	13.2	12.1	10.9	9.3	7.7	5.9	4.1	1.9
117.5°	12.1	12.1	11.5	10.9	9.8	8.7	7.2	5.8	3.8	1.4	0.6
120°	9.8	9.8	9.4	8.5	7.7	6.6	5.1	3.2	0.9	0.6	0.5
122.5°	7.5	7.5	7.2	6.3	5.1	3.6	1.9	0.6	0.5	0.6	0.5
125°	4.2	4.1	3.5	2.6	1.4	0.6	0.5	0.5	0.4	0.5	0.5
127.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5
130°	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.6	0.5
132.5°	0.2	0.2	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
135°	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.5
137.5°	0.4	0.4	0.5	0.4	0.4	0.5	0.5	0.5	0.6	0.5	0.5
140°	0.4	0.2	0.4	0.2	0.2	0.4	0.4	0.4	0.4	0.5	0.5
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°	129.9	129.9	129.9	129.9	129.9	129.9	129.9	129.9	129.9	129.9	129.9
2.5°	138.8	137.7	137.2	136.1	135.1	134.1	133.1	131.9	130.1	128.0	126.6
5°	145.7	143.9	142.3	140.3	138.3	136.3	133.8	131.3	127.9	124.6	121.4
7.5°	151.5	149.2	146.8	143.7	141.0	137.9	134.5	130.4	125.8	120.7	115.7
10°	156.8	153.7	150.4	146.6	143.0	139.0	134.5	129.2	123.2	116.4	109.5
12.5°	161.7	157.8	153.6	149.0	144.4	139.7	134.0	127.7	120.0	111.5	102.7
15°	165.5	160.9	156.1	150.5	144.8	139.3	132.7	125.1	116.2	105.9	94.9
17.5°	169.4	164.0	158.3	151.9	145.3	138.9	131.4	122.6	112.2	100.1	87.5
20°	172.3	166.4	159.9	152.8	145.2	138.1	129.6	119.4	107.6	94.2	79.8
22.5°	174.9	168.2	160.9	153.3	144.8	136.6	127.4	116.1	103.1	87.9	72.5
25°	177.4	169.6	161.8	153.1	143.7	134.8	124.9	112.7	98.1	81.6	65.5
27.5°	179.6	170.7	162.0	152.6	142.6	133.0	122.2	109.1	93.2	75.5	58.8
30°	180.9	171.4	162.0	151.6	140.9	130.4	119.0	104.8	87.9	69.1	52.6
32.5°	181.7	171.9	161.7	150.5	138.8	127.5	115.3	100.6	82.6	63.0	46.8
35°	182.4	172.0	161.2	149.0	136.7	124.5	111.2	95.9	77.1	57.2	41.9
37.5°	182.7	171.5	160.3	147.7	134.2	121.2	107.4	91.5	71.8	51.7	37.4
40°	182.8	170.9	158.8	145.7	131.5	117.8	103.2	86.6	66.5	46.6	33.4
42.5°	182.3	169.8	157.3	143.2	128.0	113.6	98.4	81.2	60.7	41.5	29.4
45°	181.4	168.6	155.1	140.4	124.6	109.0	93.4	76.4	56.0	37.1	26.2
47.5°	179.9	166.5	152.3	136.9	120.1	104.1	88.2	71.2	50.8	33.1	22.9
50°	178.2	164.1	149.2	132.6	115.2	99.1	83.4	66.0	46.1	29.5	19.9
52.5°	175.5	160.9	145.1	128.0	110.4	94.1	78.1	60.9	41.5	25.8	17.1
55°	172.5	157.2	140.8	123.0	105.4	88.6	72.5	55.9	37.2	22.4	14.3
57.5°	168.7	152.8	135.6	117.9	100.1	83.3	67.4	50.8	32.8	19.4	11.6
60°	164.5	147.9	130.3	112.8	94.7	77.7	61.8	45.9	28.8	16.4	9.3
62.5°	159.6	142.4	124.9	107.3	89.0	71.8	56.1	40.5	24.8	13.7	7.2
65°	154.5	136.7	119.4	101.6	82.9	65.9	50.3	35.7	21.1	10.9	5.1
67.5°	148.6	130.8	113.1	95.0	76.6	59.6	44.2	30.5	17.4	8.2	3.1
70°	143.2	124.8	106.9	88.6	70.1	53.0	38.4	25.6	13.7	5.7	1.5
72.5°	137.9	119.1	100.6	81.8	63.4	46.5	32.9	21.0	10.5	3.7	0.9
75°	132.5	113.5	94.4	75.0	56.2	40.4	27.3	16.7	7.4	2.0	0.6
77.5°	126.8	107.8	88.1	68.3	49.6	34.2	22.1	12.6	4.9	1.0	0.6
80°	120.9	101.7	81.8	61.9	43.5	28.7	17.2	9.1	3.0	0.7	0.5
82.5°	114.6	95.3	75.3	55.6	37.6	23.4	13.0	6.1	1.2	0.5	0.5
85°	107.3	88.5	68.8	49.7	32.3	18.7	9.5	3.5	0.7	0.5	0.5
87.5°	98.5	80.2	61.3	43.1	26.9	15.0	6.4	1.9	0.7	0.7	0.6
90°	86.6	69.5	51.7	35.1	20.9	10.6	4.0	0.6	0.6	0.6	0.5
92.5°	70.7	54.8	39.2	25.6	14.2	6.2	1.7	0.6	0.7	0.6	0.5
95°	49.8	36.8	25.3	15.7	7.8	2.5	0.7	0.6	0.7	0.5	0.5
97.5°	30.5	22.1	14.7	8.3	3.6	0.7	0.5	0.6	0.6	0.5	0.5
100°	18.7	13.2	8.4	4.3	1.7	0.6	0.5	0.6	0.7	0.5	0.6
102.5°	12.1	8.3	4.9	2.3	0.5	0.5	0.5	0.6	0.6	0.5	0.6
105°	8.2	5.3	3.0	0.7	0.5	0.4	0.5	0.5	0.5	0.5	0.6
107.5°	5.7	3.5	1.0	0.6	0.4	0.4	0.5	0.5	0.5	0.5	0.5
110°	3.8	1.5	0.6	0.6	0.5	0.5	0.4	0.5	0.5	0.5	0.5



TEST NUMBER: P273353

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	1.9	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.5	0.5
115°	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5
117.5°	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.4	0.4
120°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
122.5°	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
125°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
127.5°	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
130°	0.5	0.6	0.6	0.5	0.6	0.5	0.6	0.6	0.6	0.6	0.6
132.5°	0.4	0.4	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.5	0.5
135°	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.6	0.6	0.6
137.5°	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.7
140°	0.5	0.6	0.5	0.5	0.6	0.5	0.6	0.6	0.6	0.6	0.6
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: P273353

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	129.9	129.9	129.9	129.9	129.9	129.9	129.9	129.9	129.9	129.9	129.9
2.5°	124.9	123.2	121.7	119.9	117.9	116.7	115.3	113.6	113.0	111.5	110.5
5°	118.3	114.8	111.6	108.1	104.4	101.7	99.2	96.4	94.3	92.1	91.3
7.5°	110.6	105.5	100.4	94.9	89.8	85.8	82.3	78.6	75.8	74.0	71.9
10°	102.3	95.4	88.0	81.7	75.8	70.9	67.4	63.6	60.8	58.3	57.2
12.5°	93.6	85.2	76.7	69.7	64.1	59.7	55.9	53.1	51.0	49.3	47.8
15°	84.3	74.4	66.1	59.2	54.0	50.4	47.3	45.2	43.8	42.1	41.0
17.5°	75.6	65.7	57.0	51.4	47.3	44.1	41.5	39.4	37.9	36.6	35.6
20°	67.4	57.5	50.2	45.1	41.5	38.4	36.1	34.1	32.6	31.4	30.3
22.5°	59.7	50.5	44.1	39.5	36.2	33.5	31.0	28.9	27.7	26.3	25.1
25°	53.0	44.9	38.7	34.6	31.8	28.9	26.6	24.3	22.9	21.4	20.3
27.5°	47.1	39.5	34.2	30.4	27.4	24.6	22.1	20.3	18.4	16.9	15.8
30°	41.9	35.1	30.3	26.3	23.4	20.3	18.0	15.8	14.3	12.7	11.5
32.5°	37.2	30.9	26.4	22.6	19.5	16.6	14.2	12.2	10.4	8.8	7.3
35°	33.1	27.2	22.6	19.0	16.1	13.2	11.0	8.8	6.7	5.1	3.8
37.5°	29.2	23.7	19.5	15.8	12.9	10.1	7.7	5.3	3.6	2.3	1.7
40°	25.7	20.8	16.3	13.1	10.0	7.2	4.8	2.8	1.5	0.7	0.4
42.5°	22.5	17.4	13.5	10.1	7.2	4.3	2.5	1.0	0.4	0.2	0.1
45°	19.5	14.8	11.0	7.7	4.7	2.2	0.9	0.6	0.4	0.2	0.1
47.5°	16.6	12.2	8.5	5.1	2.5	0.9	0.5	0.4	0.2	0.2	0.1
50°	14.0	9.8	6.2	3.0	1.1	0.5	0.4	0.4	0.2	0.2	0.1
52.5°	11.4	7.4	3.6	1.2	0.5	0.4	0.2	0.2	0.1	0.2	0.1
55°	9.1	5.1	2.0	0.6	0.4	0.2	0.2	0.2	0.2	0.1	0.1
57.5°	7.2	3.1	0.9	0.5	0.4	0.4	0.2	0.2	0.2	0.1	0.1
60°	5.1	1.7	0.7	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.1
62.5°	3.1	0.9	0.5	0.4	0.2	0.2	0.2	0.2	0.1	0.1	0.1
65°	1.7	0.7	0.5	0.5	0.5	0.4	0.4	0.4	0.2	0.2	0.2
67.5°	0.7	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.1	0.1	0.1
70°	0.5	0.5	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.1	0.2
72.5°	0.6	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2
77.5°	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.1
80°	0.5	0.6	0.6	0.5	0.4	0.4	0.2	0.2	0.4	0.2	0.2
82.5°	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2
85°	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.2	0.2	0.2
87.5°	0.6	0.7	0.7	0.6	0.5	0.5	0.4	0.4	0.2	0.4	0.2
90°	0.5	0.5	0.5	0.5	0.4	0.4	0.2	0.4	0.2	0.2	0.1
92.5°	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.2	0.2	0.2	0.2
95°	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.2	0.2
97.5°	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.2	0.2	0.2	0.2
100°	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4
102.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.2
105°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.2	0.2	0.2	0.2
107.5°	0.4	0.5	0.5	0.4	0.4	0.4	0.2	0.2	0.4	0.2	0.2
110°	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.2	0.2	0.2



TEST NUMBER: P273353

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.2	0.2	0.2
115°	0.5	0.5	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.1
117.5°	0.5	0.5	0.4	0.4	0.2	0.4	0.4	0.2	0.2	0.2	0.1
120°	0.5	0.5	0.5	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.1
122.5°	0.5	0.5	0.4	0.4	0.4	0.4	0.2	0.4	0.4	0.2	0.1
125°	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.1
127.5°	0.5	0.5	0.4	0.5	0.4	0.4	0.2	0.4	0.2	0.2	0.2
130°	0.5	0.5	0.5	0.6	0.5	0.4	0.4	0.4	0.2	0.4	0.2
132.5°	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2
135°	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.2
137.5°	0.6	0.6	0.6	0.6	0.5	0.6	0.5	0.5	0.5	0.4	0.4
140°	0.6	0.6	0.5	0.6	0.5	0.5	0.5	0.4	0.4	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



TEST NUMBER: P273353

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	129.9	129.9	129.9	129.9
2.5°	109.9	110.4	109.7	108.8
5°	89.5	89.6	88.6	87.4
7.5°	70.1	69.8	68.8	67.7
10°	56.0	55.5	54.8	54.0
12.5°	46.6	46.1	46.0	45.2
15°	39.9	39.4	39.3	38.9
17.5°	34.9	34.4	34.1	34.0
20°	29.5	29.2	28.8	28.5
22.5°	24.5	24.0	23.6	23.2
25°	19.5	19.0	18.5	18.9
27.5°	15.1	14.5	13.7	14.0
30°	10.4	9.9	9.3	9.3
32.5°	6.2	5.4	4.9	4.8
35°	2.8	2.3	2.0	1.9
37.5°	1.0	0.6	0.4	0.5
40°	0.4	0.2	0.1	0.1
42.5°	0.1	0.1	0.0	0.0
45°	0.2	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°	0.2	0.1	0.1	0.1
82.5°	0.1	0.1	0.1	0.0
85°	0.2	0.1	0.1	0.0
87.5°	0.4	0.2	0.2	0.2
90°	0.1	0.1	0.1	0.0
92.5°	0.2	0.1	0.1	0.1
95°	0.2	0.1	0.2	0.2
97.5°	0.2	0.1	0.1	0.1
100°	0.2	0.1	0.2	0.2
102.5°	0.2	0.2	0.1	0.2
105°	0.2	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: P273353

CATALOG NUMBER: 0.03-3W-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	0.2	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°	0.4	0.4	0.2	0.2
140°	0.2	0.2	0.2	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)