

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: P273417

Luminaire Tested: **0.05-06W-827-60-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (ITL89169-GONIOPHOTOMETRY)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 0.05-06W-827-60-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES 2.0 LINEAR LED LUMINAIRE. 60 DEGREE OPTIC.
HIGH OUTPUT
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1052.3 lumens
Efficiency: N/A
Efficacy: 45.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.26
Luminous Opening: Rectangular w/ Sides (W: 2.92' x L: 0.16' x H: 0.03')
CIE Type: Direct

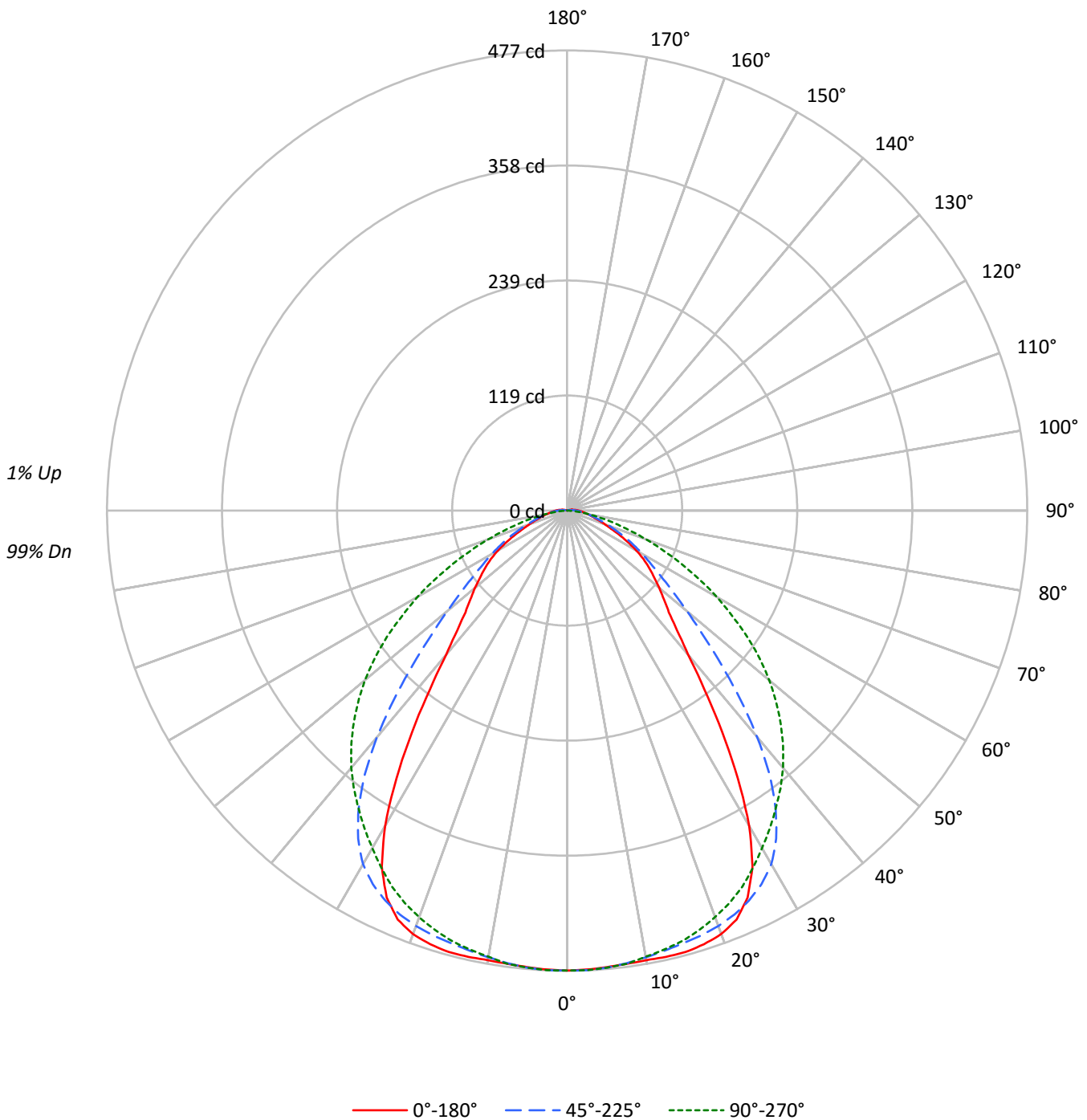
Input Watts (W): 23.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P273417

CATALOG NUMBER: 0.05-06W-827-60-STD-UNV-AN-3F0

Luminous Intensity Polar Plot





TEST NUMBER: P273417

CATALOG NUMBER: 0.05-06W-827-60-STD-UNV-AN-3F0

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	110	106	102	99	107	104	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	64
4	86	75	68	62	84	74	67	61	72	65	60	69	64	59	67	62	59	56
5	80	68	60	54	78	67	59	54	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	51	47	56	51	46	44
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10898	10898	10898
5°	10747	10799	10904
10°	10679	10686	10882
15°	10747	10641	10902
20°	10734	10678	10874
25°	10379	10653	10797
30°	9117	10446	10608
35°	7025	9702	10454
40°	5120	8309	10309
45°	4150	6523	10038
50°	3713	5029	9627
55°	3369	4026	8968
60°	2966	3412	8067
65°	2391	2867	6925
70°	1922	2355	5649
75°	1626	1944	4367
80°	1485	1690	3095
85°	1494	1590	1713



TEST NUMBER: P273417

CATALOG NUMBER: 0.05-06W-827-60-STD-UNV-AN-3F0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.2	4.3
10°-20°	131.6	12.5
20°-30°	201.4	19.1
30°-40°	217.5	20.7
40°-50°	181.0	17.2
50°-60°	133.6	12.7
60°-70°	81.0	7.7
70°-80°	38.7	3.7
80°-90°	15.5	1.5
90°-100°	5.3	0.5
100°-110°	1.3	0.1
110°-120°	0.1	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
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°	378.3	35.9
0°-40°	595.8	56.6
0°-60°	910.4	86.5
0°-90°	1045.6	99.4
90°-120°	6.7	0.6
90°-150°	6.7	0.6
90°-180°	7.0	0.7
0°-180°	1052.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	477	477	477	477	477	
5°	475	476	476	476	476	45
15°	474	470	464	460	462	134
25°	442	445	446	433	430	200
35°	280	313	377	383	377	175
45°	149	162	226	311	313	118
55°	104	105	118	204	228	93
65°	60	62	67	100	130	60
75°	30	30	32	40	51	32
85°	16	16	14	12	7	14
90°	12	11	10	5	0	7
95°	8	8	5	1	0	6
105°	3	2	1	0	0	3
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
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: P273417

CATALOG NUMBER: 0.05-06W-827-60-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	476.8	476.8	476.8	476.8	476.8	476.8	476.8	476.8	476.8	476.8	476.8
2.5°	476.2	476.2	476.2	476.2	476.2	476.3	476.4	476.6	476.7	476.8	476.8
5°	475.0	475.1	475.2	475.4	475.5	475.6	475.6	475.6	475.6	475.6	475.6
7.5°	473.8	473.8	473.8	473.8	473.8	473.7	473.6	473.4	473.3	473.2	473.2
10°	473.2	473.0	472.7	472.4	472.1	471.8	471.4	471.0	470.6	470.2	470.1
12.5°	473.8	473.3	472.7	472.2	471.6	470.9	470.0	469.0	468.1	467.2	466.8
15°	473.8	473.0	472.2	471.4	470.6	469.5	468.2	466.8	465.5	464.2	463.2
17.5°	471.4	470.7	470.1	469.4	468.7	467.7	466.2	464.7	463.2	461.8	460.1
20°	467.2	466.5	465.9	465.2	464.5	463.5	462.2	460.8	459.5	458.2	455.9
22.5°	458.8	458.3	458.0	457.6	457.1	456.5	455.8	455.0	454.1	453.3	450.7
25°	442.5	443.2	443.8	444.5	445.2	445.6	445.7	445.9	446.0	446.1	443.1
27.5°	416.1	418.2	420.3	422.5	424.6	426.9	429.3	431.7	434.1	436.5	433.3
30°	377.6	381.7	385.9	390.0	394.2	399.2	405.2	411.3	417.3	423.3	420.3
32.5°	329.5	335.5	341.5	347.5	353.5	361.8	372.2	382.6	393.0	403.4	402.0
35°	280.2	287.0	293.8	300.6	307.4	318.2	332.9	347.6	362.3	377.0	378.4
37.5°	233.3	239.5	245.9	252.1	258.4	270.7	289.2	307.7	326.1	344.5	350.1
40°	194.8	200.3	205.8	211.2	216.7	229.1	248.5	267.9	287.3	306.6	317.2
42.5°	168.4	172.1	175.8	179.6	183.3	194.1	212.1	229.9	247.8	265.8	281.3
45°	149.1	151.4	153.7	155.9	158.2	166.7	181.6	196.4	211.2	226.1	246.0
47.5°	135.9	137.1	138.3	139.5	140.7	146.8	157.7	168.7	179.7	190.6	213.3
50°	124.5	125.0	125.5	126.1	126.6	130.7	138.5	146.2	154.0	161.7	185.1
52.5°	113.6	114.1	114.4	114.8	115.3	117.9	122.8	127.8	132.8	137.7	160.0
55°	104.0	104.0	104.0	104.0	104.0	105.6	108.8	112.0	115.3	118.4	138.3
57.5°	93.8	93.7	93.6	93.4	93.3	94.3	96.4	98.5	100.7	102.8	119.5
60°	83.0	82.9	82.7	82.6	82.4	83.2	85.0	86.7	88.4	90.2	103.3
62.5°	70.9	71.1	71.2	71.4	71.5	72.3	73.8	75.2	76.7	78.2	88.2
65°	59.5	59.9	60.3	60.7	61.1	61.9	63.1	64.3	65.5	66.7	74.2
67.5°	49.3	49.7	50.1	50.5	50.9	51.6	52.7	53.8	54.8	55.9	61.5
70°	41.5	41.7	42.0	42.3	42.6	43.2	44.1	45.0	45.9	46.9	50.9
72.5°	34.9	35.0	35.1	35.3	35.4	35.8	36.5	37.2	37.8	38.5	41.4
75°	29.5	29.6	29.7	29.9	30.0	30.2	30.7	31.1	31.4	31.9	33.7
77.5°	25.3	25.4	25.5	25.7	25.8	25.9	26.0	26.2	26.3	26.5	27.4
80°	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.9
82.5°	18.6	18.6	18.6	18.6	18.6	18.6	18.5	18.3	18.2	18.0	17.8
85°	16.2	16.2	16.2	16.2	16.2	16.1	15.6	15.2	14.9	14.4	13.9
87.5°	13.8	13.8	13.8	13.8	13.8	13.6	13.2	12.8	12.4	12.0	11.2
90°	12.0	11.9	11.8	11.6	11.5	11.2	10.8	10.4	10.0	9.6	8.7
92.5°	10.2	10.1	10.0	9.8	9.7	9.4	8.8	8.3	7.8	7.2	6.3
95°	8.4	8.3	8.2	8.0	7.9	7.6	7.0	6.5	6.0	5.4	4.4
97.5°	6.6	6.5	6.4	6.2	6.1	5.8	5.2	4.7	4.1	3.6	2.9
100°	5.4	5.3	5.2	5.0	4.9	4.6	4.0	3.5	2.9	2.4	1.9
102.5°	4.2	4.1	4.0	3.8	3.7	3.4	2.8	2.3	1.7	1.2	1.0
105°	3.0	2.9	2.8	2.6	2.5	2.2	1.8	1.4	1.0	0.6	0.5
107.5°	1.8	1.7	1.6	1.4	1.3	1.1	0.8	0.5	0.2	0.0	0.0
110°	1.2	1.1	1.0	0.8	0.7	0.5	0.4	0.2	0.1	0.0	0.0



TEST NUMBER: P273417

CATALOG NUMBER: 0.05-06W-827-60-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.6	0.5	0.4	0.2	0.1	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	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	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	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	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	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: P273417

CATALOG NUMBER: 0.05-06W-827-60-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	476.8	476.8	476.8	476.8	476.8	476.8	476.8	476.8
2.5°	476.8	476.8	476.8	476.8	476.8	476.8	476.8	476.8
5°	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6
7.5°	473.2	473.2	473.2	473.3	473.4	473.6	473.7	473.8
10°	469.9	469.8	469.6	469.6	469.6	469.6	469.6	469.6
12.5°	466.4	466.0	465.6	465.4	465.6	465.7	465.9	466.0
15°	462.3	461.3	460.4	460.1	460.6	461.0	461.3	461.8
17.5°	458.6	457.0	455.3	454.7	455.0	455.2	455.5	455.8
20°	453.6	451.4	449.1	448.0	448.1	448.3	448.4	448.5
22.5°	448.0	445.4	442.6	441.2	440.9	440.7	440.4	440.1
25°	440.0	436.9	433.9	432.1	431.5	431.0	430.4	429.9
27.5°	430.1	426.9	423.7	421.5	420.5	419.4	418.4	417.3
30°	417.4	414.4	411.5	409.4	408.1	406.7	405.4	404.0
32.5°	400.5	399.1	397.6	396.2	394.8	393.5	392.1	390.8
35°	379.9	381.4	382.9	382.9	381.4	379.9	378.4	377.0
37.5°	355.8	361.4	366.9	369.1	367.6	366.1	364.6	363.2
40°	327.7	338.3	348.9	353.5	352.2	350.8	349.5	348.1
42.5°	296.8	312.2	327.7	335.0	334.1	333.2	332.3	331.3
45°	265.9	285.8	305.7	315.4	314.9	314.3	313.8	313.3
47.5°	236.1	258.7	281.4	292.9	293.2	293.5	293.8	294.0
50°	208.5	231.9	255.3	267.7	269.2	270.6	272.1	273.6
52.5°	182.3	204.6	226.9	239.5	242.5	245.4	248.4	251.3
55°	158.3	178.2	198.1	210.3	214.6	219.0	223.5	227.9
57.5°	136.2	152.9	169.6	180.7	186.2	191.7	197.2	202.6
60°	116.4	129.5	142.6	152.5	159.2	165.8	172.5	179.2
62.5°	98.2	108.2	118.3	126.7	133.7	140.6	147.5	154.5
65°	81.7	89.2	96.7	103.8	110.5	117.1	123.8	130.5
67.5°	67.2	72.8	78.3	84.1	90.0	95.8	101.7	107.6
70°	54.9	58.9	63.0	67.3	72.2	77.0	81.8	86.6
72.5°	44.4	47.3	50.3	53.5	56.9	60.4	63.9	67.3
75°	35.6	37.5	39.3	41.5	43.9	46.3	48.7	51.1
77.5°	28.3	29.3	30.2	31.3	32.6	34.0	35.4	36.7
80°	22.2	22.4	22.7	23.0	23.4	23.9	24.2	24.7
82.5°	17.5	17.3	17.0	16.7	16.2	15.8	15.5	15.0
85°	13.3	12.8	12.3	11.5	10.4	9.4	8.3	7.2
87.5°	10.4	9.6	8.8	7.8	6.4	5.1	3.7	2.4
90°	7.8	6.8	5.9	4.8	3.6	2.4	1.2	0.0
92.5°	5.4	4.4	3.5	2.6	2.0	1.3	0.7	0.0
95°	3.5	2.6	1.7	1.1	0.8	0.5	0.2	0.0
97.5°	2.3	1.6	1.0	0.5	0.4	0.2	0.1	0.0
100°	1.3	0.8	0.2	0.0	0.0	0.0	0.0	0.0
102.5°	0.7	0.4	0.1	0.0	0.0	0.0	0.0	0.0
105°	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P273417

CATALOG NUMBER: 0.05-06W-827-60-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
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	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	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
150°	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
155°	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
160°	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
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	0.0	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
177.5°	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

(END OF REPORT)