

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: P273392

Luminaire Tested: **0.05-03W-827-30-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-246-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 0.05-03W-827-30-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES 2.0 LINEAR LED LUMINAIRE. 30 DEGREE OPTIC.
STANDARD OUTPUT
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 757.5 lumens
Efficiency: N/A
Efficacy: 47.3 lumens/watt
Spacing Criteria (0/90/45): 0.73 / 1.67 / 0.84
Luminous Opening: Rectangular (W 2.92' x L: 0.21' x H: 0')
CIE Type: Direct

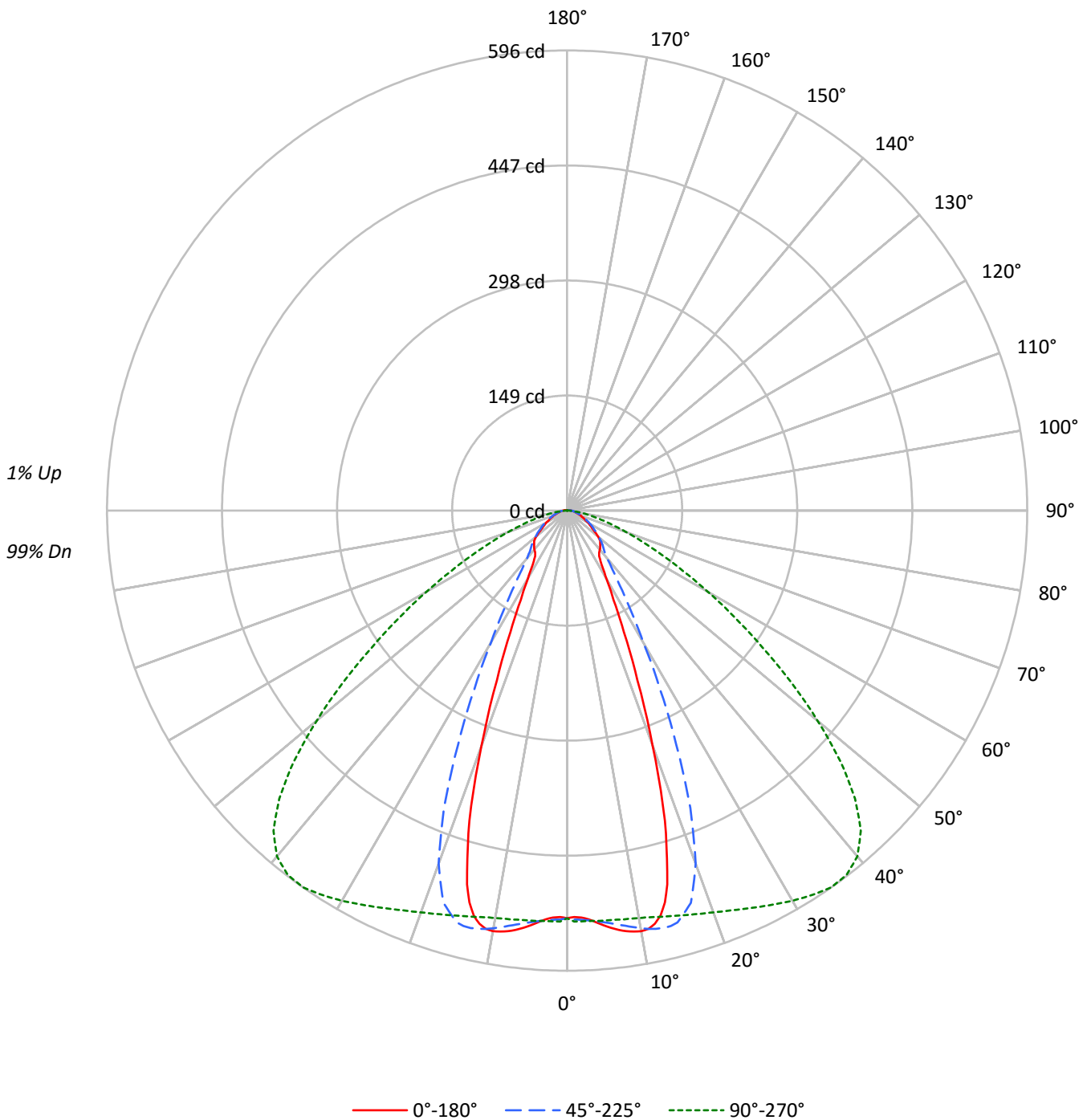
Input Watts (W): 16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	99								
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	82	80	78								
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69								
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62								
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56								
6	79	67	60	55	77	67	59	54	65	59	54	63	58	53	62	57	53	51								
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	52	49	47								
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43								
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	50	45	41	40								
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	47	42	39	37								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9355	9355	9355
5°	9586	9515	9481
10°	9949	9881	9641
15°	9190	10127	9962
20°	6108	9175	10438
25°	3389	6536	11096
30°	2076	4040	11935
35°	1559	2576	12884
40°	1526	1859	13519
45°	1518	1646	13212
50°	1447	1483	11668
55°	1211	1328	9522
60°	1095	1222	7458
65°	981	1094	5638
70°	932	1015	4190
75°	938	1006	3128
80°	1010	1102	2234
85°	1504	1606	1382



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	6.8
10°-20°	147.1	19.4
20°-30°	166.4	22.0
30°-40°	136.8	18.1
40°-50°	106.4	14.0
50°-60°	73.3	9.7
60°-70°	42.6	5.6
70°-80°	21.1	2.8
80°-90°	8.4	1.1
90°-100°	3.0	0.4
100°-110°	1.1	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°	364.9	48.2
0°-40°	501.7	66.2
0°-60°	681.4	89.9
0°-90°	753.4	99.5
90°-120°	4.2	0.5
90°-150°	4.2	0.5
90°-180°	4.0	0.5
0°-180°	757.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	528	528	528	528	528	
5°	539	537	535	529	533	52
15°	501	520	552	549	543	132
25°	173	205	334	536	568	84
35°	72	77	119	329	596	48
45°	61	59	66	148	527	47
55°	39	40	43	81	308	36
65°	23	24	26	45	134	23
75°	14	14	15	21	46	15
85°	7	8	8	7	7	7
90°	5	5	5	3	0	3
95°	4	4	3	1	0	3
105°	2	2	1	0	0	2
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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1
1°	526.5	526.3	525.2	526.0	527.9	529.7	530.6	530.3	530.1	529.7	529.6
2°	527.4	527.2	526.3	527.0	529.0	530.8	531.5	531.2	530.6	530.5	529.9
3°	530.1	529.9	528.8	529.4	531.2	532.4	532.8	532.4	531.9	531.5	530.8
4°	534.4	534.1	532.6	532.6	533.9	534.6	534.8	534.2	533.9	533.2	532.3
5°	539.1	538.4	536.6	536.4	537.1	537.7	537.3	536.8	536.0	535.1	534.2
6°	543.4	542.9	540.7	540.3	540.9	540.9	540.2	539.3	538.7	537.5	536.2
7°	547.2	546.5	544.5	544.1	544.7	544.5	543.8	542.7	541.8	540.2	538.7
8°	550.1	549.3	547.5	547.2	548.1	547.9	547.4	546.3	545.2	543.2	541.2
9°	552.0	551.1	549.5	549.5	550.8	551.0	550.6	549.7	548.6	546.1	544.3
10°	553.1	551.9	550.8	550.8	552.4	553.3	553.1	552.4	551.5	549.3	547.4
11°	552.0	550.4	550.1	550.6	552.6	554.0	554.6	554.6	554.0	552.0	550.2
12°	547.2	545.7	546.1	546.5	549.9	552.4	554.0	555.1	555.5	553.8	552.9
13°	538.2	536.6	537.1	539.1	543.9	547.7	551.1	553.7	555.6	554.9	555.1
14°	522.9	520.9	524.2	525.6	532.8	538.7	544.3	549.2	553.3	554.4	556.2
15°	501.1	499.3	504.0	506.0	515.9	524.5	532.8	540.9	548.3	552.2	555.8
17.5°	421.1	419.1	425.9	434.8	447.5	465.9	480.8	499.5	517.7	532.8	545.6
20°	324.0	325.2	329.9	338.5	355.8	375.9	398.8	427.4	456.5	486.7	513.9
22.5°	238.0	239.4	243.4	251.5	266.9	288.0	309.6	340.9	375.2	416.6	458.1
25°	173.4	175.9	177.7	185.1	197.5	212.6	232.2	257.9	291.2	334.4	383.7
27.5°	130.4	131.8	133.6	138.9	147.1	158.3	174.3	194.3	222.5	260.1	305.8
30°	101.5	102.0	103.8	107.6	112.4	121.1	132.4	147.3	167.6	197.5	235.5
32.5°	82.4	82.7	83.8	85.6	89.8	95.3	103.6	114.9	129.5	152.5	182.2
35°	72.1	72.3	72.8	73.6	75.5	78.6	83.8	92.1	102.7	119.1	142.3
37.5°	68.2	68.2	68.4	68.5	69.1	70.2	72.7	77.2	84.2	96.4	113.7
40°	66.0	66.0	66.0	65.7	65.8	66.2	67.3	69.4	72.7	80.4	92.5
42.5°	63.5	63.3	63.1	62.8	62.6	63.0	64.2	65.3	67.1	71.1	78.4
45°	60.6	60.6	60.4	59.7	59.5	59.4	59.7	60.6	62.8	65.7	69.8
47.5°	57.9	57.7	57.2	56.1	55.8	55.8	56.1	56.3	57.2	60.1	63.9
50°	52.5	52.5	52.5	51.8	51.8	51.6	51.6	52.2	52.7	53.8	57.0
52.5°	45.3	45.3	45.5	45.3	46.4	46.6	46.8	46.9	47.5	48.7	50.7
55°	39.2	39.2	39.6	39.4	39.8	40.5	41.6	42.6	42.6	43.0	45.1
57.5°	35.1	35.1	35.3	34.9	35.1	35.3	35.8	37.1	38.1	38.7	39.9
60°	30.9	31.1	31.1	30.9	31.3	31.5	31.7	32.4	32.9	34.5	35.6
62.5°	26.6	26.8	26.8	26.8	27.2	27.5	27.7	28.2	28.8	29.7	31.5
65°	23.4	23.4	23.4	23.4	23.6	23.7	24.1	24.8	25.0	26.1	27.2
67.5°	20.5	20.5	20.7	20.5	20.7	20.9	20.9	21.4	21.9	22.8	23.6
70°	18.0	18.0	18.0	18.2	18.2	18.3	18.3	18.5	18.9	19.6	20.5
72.5°	15.6	15.8	15.8	16.0	16.0	16.0	16.0	16.4	16.4	16.9	17.6
75°	13.7	13.9	13.9	13.9	13.9	14.0	14.0	14.2	14.4	14.7	15.3
77.5°	11.9	11.9	11.9	11.9	12.1	12.1	12.2	12.2	12.4	12.8	13.1
80°	9.9	10.3	10.3	10.3	10.3	10.4	10.4	10.6	10.6	10.8	11.0
82.5°	8.6	8.6	8.6	8.8	8.8	8.8	8.8	9.2	9.2	9.4	9.4
85°	7.4	7.4	7.4	7.6	7.6	7.6	7.6	7.7	7.7	7.9	7.7
87.5°	6.3	6.3	6.3	6.3	6.3	6.5	6.5	6.5	6.5	6.5	6.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
90°	5.2	5.4	5.4	5.4	5.4	5.4	5.6	5.4	5.4	5.4	5.2
92.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.3	4.1
95°	4.0	4.0	4.0	4.0	4.0	4.0	3.8	3.8	3.6	3.4	3.1
97.5°	3.4	3.2	3.2	3.2	3.2	3.2	3.1	3.1	2.9	2.7	2.3
100°	2.9	2.9	2.9	2.9	2.9	2.7	2.5	2.5	2.3	2.0	1.6
102.5°	2.5	2.5	2.5	2.5	2.3	2.3	2.2	2.0	1.8	1.6	1.3
105°	2.0	2.0	2.0	2.0	2.0	1.8	1.6	1.6	1.3	1.1	0.7
107.5°	1.6	1.6	1.6	1.6	1.6	1.4	1.3	1.3	0.9	0.5	0.4
110°	1.3	1.3	1.3	1.3	1.3	1.3	0.9	0.7	0.5	0.4	0.4
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°	0.0	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1
1°	526.5	526.0	526.1	526.7	527.6	530.8	531.5	532.4
2°	527.0	526.5	526.7	527.0	527.9	531.2	531.7	532.4
3°	527.9	527.0	527.4	527.6	527.9	531.2	531.9	532.4
4°	529.4	528.1	528.3	528.1	528.5	531.4	532.3	532.8
5°	531.0	529.4	529.6	529.2	529.0	531.9	532.6	533.2
6°	532.8	531.0	531.0	530.3	529.9	532.4	533.0	533.5
7°	535.1	532.6	532.4	531.5	531.0	533.2	533.3	533.9
8°	537.7	534.6	534.4	533.3	532.1	533.9	534.2	534.6
9°	540.2	536.8	536.2	534.8	533.3	534.8	535.0	535.0
10°	543.0	539.1	538.4	536.8	535.1	535.9	535.9	536.0
11°	545.9	541.6	540.7	538.6	536.8	537.3	536.9	536.8
12°	548.3	543.9	543.2	540.7	538.6	538.7	538.2	538.2
13°	550.8	546.6	545.4	543.0	540.5	540.5	539.8	540.0
14°	552.2	548.8	547.7	545.2	542.7	542.5	541.4	541.4
15°	553.1	550.4	549.7	547.7	545.0	544.7	543.0	543.2
17.5°	550.6	552.9	553.8	553.8	551.1	550.2	547.9	548.3
20°	533.9	544.7	554.0	557.6	556.5	556.5	553.8	553.7
22.5°	495.7	523.3	545.6	558.0	561.4	562.8	560.9	560.1
25°	434.2	479.7	521.6	549.5	562.8	568.9	567.7	567.7
27.5°	357.8	420.9	479.6	529.0	557.6	572.4	574.7	575.6
30°	286.7	349.7	421.3	489.4	541.2	571.5	581.0	583.5
32.5°	225.0	281.7	352.2	437.5	510.5	563.4	585.1	590.4
35°	176.6	222.1	287.3	371.3	465.9	542.5	583.7	595.8
37.5°	139.4	176.8	231.7	310.3	409.0	507.3	573.4	594.7
40°	112.4	141.6	185.1	255.1	349.9	461.7	551.3	584.6
42.5°	92.3	115.5	150.9	209.2	296.4	411.2	518.0	563.0
45°	78.4	95.5	123.8	172.3	250.2	360.8	475.8	527.4
47.5°	70.0	81.7	104.1	144.4	212.4	315.0	427.0	479.6
50°	62.8	72.3	89.6	122.9	181.3	271.6	374.7	423.4
52.5°	55.2	63.9	78.4	105.8	155.8	233.7	323.6	365.9
55°	48.9	55.8	68.7	92.6	134.4	199.5	273.2	308.3
57.5°	43.2	48.9	59.7	80.8	117.1	168.9	227.5	257.2
60°	37.8	42.8	52.2	69.6	99.7	140.3	185.6	210.5
62.5°	33.8	37.4	45.5	60.1	83.5	115.7	151.8	169.1
65°	29.9	33.1	39.2	51.1	69.3	93.4	121.4	134.5
67.5°	25.4	28.8	33.5	43.2	56.5	74.6	95.9	104.7
70°	21.9	24.1	28.4	35.6	45.7	59.2	74.5	80.9
72.5°	18.7	20.1	23.6	28.8	36.0	46.0	57.0	61.5
75°	16.0	17.1	18.9	22.5	27.9	34.9	42.3	45.7
77.5°	13.7	14.0	15.1	17.3	20.5	25.5	30.6	32.7
80°	11.3	11.7	11.7	12.8	14.6	17.6	20.5	21.9
82.5°	9.4	9.4	9.4	9.4	9.9	11.3	12.6	13.3
85°	7.6	7.4	7.0	6.7	6.5	6.3	6.7	6.8
87.5°	6.3	5.9	5.2	4.5	3.8	3.1	2.5	2.5



TEST NUMBER: P273392

CATALOG NUMBER: 0.05-03W-827-30-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
90°	4.9	4.5	3.8	3.1	2.2	1.3	0.7	0.4
92.5°	3.8	3.2	2.5	1.8	1.1	0.4	0.0	0.0
95°	2.7	2.3	1.6	1.1	0.4	0.0	0.0	0.0
97.5°	2.0	1.4	0.9	0.4	0.0	0.0	0.0	0.0
100°	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0
102.5°	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)