

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: P273421

Luminaire Tested: **0.05-06W-830-10-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-246-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 0.05-06W-830-10-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES 2.0 LINEAR LED LUMINAIRE. 10 DEGREE OPTIC.
HIGH OUTPUT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1195.0 lumens
Efficiency: N/A
Efficacy: 51.5 lumens/watt
Spacing Criteria (0/90/45): 0.12 / 0.93 / 0.2
Luminous Opening: Rectangular (W 2.92' x L: 0.21' x H: 0')
CIE Type: Direct

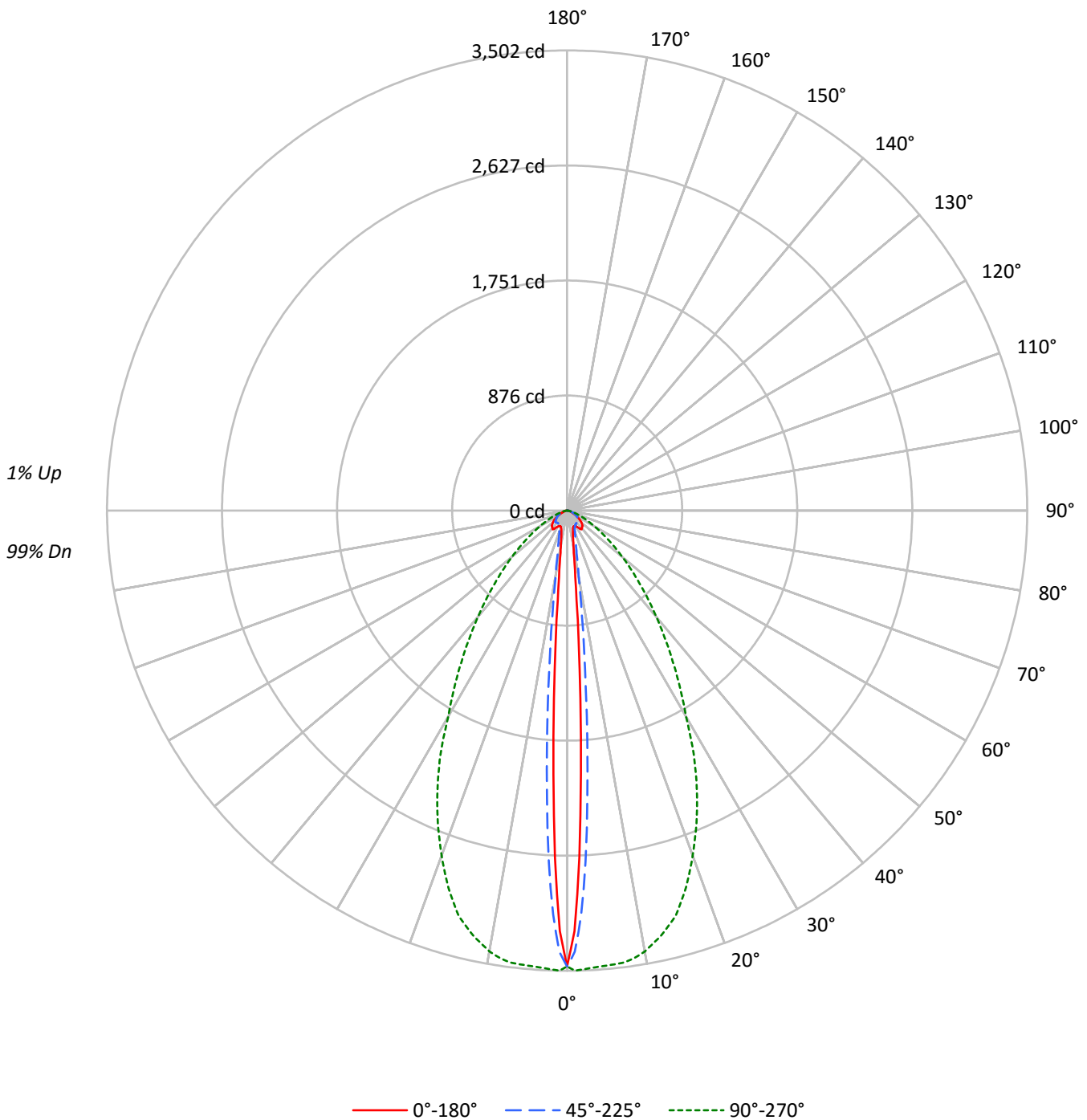
Input Watts (W): 23.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	70								
4	90	80	73	68	88	79	72	67	76	71	66	74	69	65	72	68	64	63								
5	84	74	66	61	82	73	66	61	71	65	60	69	63	59	67	62	59	57								
6	79	68	61	55	77	67	60	55	66	59	55	64	58	54	62	58	54	52								
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48								
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45								
9	67	56	49	44	66	55	48	44	54	48	44	53	47	44	52	47	43	42								
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	61456	61456	61456
5°	17574	31250	61805
10°	4981	9050	61271
15°	3099	4601	58555
20°	2543	3246	52682
25°	2549	2693	45655
30°	2872	2575	36986
35°	3642	2584	30293
40°	4026	2763	24412
45°	4154	3154	19365
50°	3922	3089	15033
55°	3533	3076	11489
60°	2813	2926	8538
65°	2209	2720	6116
70°	1828	2445	4294
75°	1629	2176	2950
80°	1704	2061	2101
85°	2419	2622	1301



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.3	13.5
10°-20°	204.0	17.1
20°-30°	198.0	16.6
30°-40°	188.7	15.8
40°-50°	173.9	14.6
50°-60°	134.1	11.2
60°-70°	79.1	6.6
70°-80°	36.3	3.0
80°-90°	13.5	1.1
90°-100°	4.7	0.4
100°-110°	1.4	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°	563.3	47.1
0°-40°	751.9	62.9
0°-60°	1059.9	88.7
0°-90°	1188.9	99.5
90°-120°	6.2	0.5
90°-150°	6.2	0.5
90°-180°	6.0	0.5
0°-180°	1195.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3469	3469	3469	3469	3469	
5°	988	1185	1757	2780	3476	79
15°	169	182	251	811	3193	50
25°	130	129	138	325	2336	62
35°	168	145	120	223	1401	104
45°	166	151	126	209	773	125
55°	114	115	100	177	372	101
65°	53	58	65	103	146	54
75°	24	25	32	42	43	26
85°	12	12	13	13	6	11
90°	9	9	8	6	0	5
95°	6	6	6	2	0	5
105°	3	3	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3469.3	3469.3	3469.3	3469.3	3469.3	3469.3	3469.3	3469.3	3469.3	3469.3	3469.3
1°	3201.6	3228.6	3186.2	3267.2	3236.0	3260.7	3303.1	3331.1	3355.2	3357.8	3384.1
2°	2641.9	2714.6	2654.8	2772.1	2761.5	2812.9	2889.0	2951.7	3013.7	3074.7	3125.8
3°	2010.0	2091.3	2075.8	2157.1	2174.1	2248.0	2352.8	2449.8	2553.3	2674.7	2764.7
4°	1435.8	1497.2	1516.5	1558.9	1622.2	1682.6	1794.7	1914.9	2049.8	2196.3	2350.9
5°	988.3	1039.0	1053.5	1089.5	1152.1	1217.7	1320.8	1443.9	1589.4	1757.4	1934.5
6°	687.2	723.9	736.4	764.3	810.9	867.2	952.6	1059.0	1193.9	1365.8	1548.6
7°	507.6	531.7	541.0	561.6	594.7	636.5	701.4	785.9	896.7	1050.6	1247.2
8°	401.6	409.6	416.4	431.8	455.9	485.5	533.3	597.0	683.1	810.6	977.7
9°	324.5	331.9	337.0	348.6	366.3	388.1	424.1	472.6	538.5	626.2	756.3
10°	276.9	281.1	285.0	293.7	306.5	322.9	349.6	385.5	436.9	503.1	621.0
12.5°	206.9	206.3	209.5	214.9	223.3	232.6	246.7	266.7	294.0	330.3	396.5
15°	169.0	169.3	171.6	175.1	179.6	185.1	193.7	206.9	224.3	250.9	287.9
17.5°	145.9	146.2	147.5	149.7	152.9	157.8	164.2	172.2	184.4	202.7	228.1
20°	134.9	134.6	135.3	136.5	138.5	141.0	144.6	149.1	158.1	172.2	191.8
22.5°	130.8	130.8	130.8	130.4	130.8	131.4	133.7	137.2	142.0	150.4	164.5
25°	130.4	130.8	130.4	129.5	129.5	129.2	128.8	129.8	132.0	137.8	146.8
27.5°	133.3	133.0	132.0	130.4	129.2	128.2	127.6	127.2	127.6	129.8	135.9
30°	140.4	139.8	137.8	134.9	132.0	129.2	126.6	125.3	125.0	125.9	128.5
32.5°	151.0	150.0	147.8	143.0	139.1	134.0	129.5	124.7	122.1	122.1	123.7
35°	168.4	166.4	162.9	157.1	149.1	141.7	134.9	127.9	122.4	119.5	119.8
37.5°	180.9	180.2	178.6	173.2	165.5	155.2	143.3	132.4	125.0	118.6	116.0
40°	174.1	173.2	170.9	168.0	165.8	163.5	154.2	140.4	129.2	119.5	114.1
42.5°	168.7	168.0	165.8	161.0	157.8	154.2	151.0	146.8	134.6	122.4	114.1
45°	165.8	165.1	163.2	159.0	153.9	148.1	142.3	138.2	134.6	125.9	115.0
47.5°	152.9	152.6	152.0	151.0	149.1	145.9	137.8	130.4	124.3	122.7	116.6
50°	142.3	142.3	142.0	140.1	138.2	135.6	133.3	126.3	117.3	112.1	111.5
52.5°	130.4	130.4	130.4	129.8	128.5	125.6	122.7	119.2	113.1	104.4	100.9
55°	114.4	114.7	115.3	115.7	116.0	114.4	112.8	108.6	105.1	99.6	92.5
57.5°	96.7	97.0	98.3	99.3	100.6	101.2	101.5	99.6	95.7	91.6	86.7
60°	79.4	79.7	81.0	82.6	84.8	86.7	88.4	89.0	86.4	82.6	79.4
62.5°	64.6	64.6	66.2	67.5	69.7	72.0	74.9	76.5	76.1	74.2	71.0
65°	52.7	53.0	54.0	54.9	56.5	58.8	62.0	64.6	65.9	64.9	62.7
67.5°	43.1	43.4	44.0	45.0	45.9	47.9	50.4	53.7	55.6	55.9	54.9
70°	35.3	35.7	36.0	36.6	37.6	38.9	40.8	43.7	45.9	47.2	47.2
72.5°	29.2	29.2	29.6	30.2	30.8	31.8	33.4	35.0	37.3	39.2	39.8
75°	23.8	24.1	24.4	24.4	25.1	25.4	26.7	28.0	29.6	31.8	32.8
77.5°	19.9	19.9	19.9	19.9	20.6	20.9	21.5	22.5	23.8	25.4	26.7
80°	16.7	16.7	16.7	16.7	16.7	17.0	17.7	18.0	18.6	20.2	21.5
82.5°	14.1	14.1	14.1	14.1	14.1	14.5	14.5	14.8	15.4	16.1	17.0
85°	11.9	11.9	11.9	11.9	11.9	11.9	12.2	12.2	12.5	12.9	13.2
87.5°	10.0	10.0	10.0	10.0	10.0	10.0	10.3	10.3	10.3	10.3	10.6
90°	8.7	8.7	8.7	8.7	8.7	8.4	8.4	8.4	8.4	8.4	8.4
92.5°	7.4	7.4	7.4	7.4	7.4	7.1	7.1	6.7	6.7	6.7	6.7
95°	6.1	6.1	6.1	5.8	5.8	5.8	5.8	5.5	5.5	5.5	4.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
97.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.5	4.5	4.2	4.2	3.5
100°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.5	3.2	2.9	2.9
102.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.6	2.6	2.2	1.6
105°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	1.9	1.9	1.3	1.0
107.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.3	1.0	0.6	0.0
110°	1.9	1.9	1.9	1.6	1.9	1.6	1.3	1.0	0.6	0.0	0.0
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°	3469.3	3469.3	3469.3	3469.3	3469.3	3469.3	3469.3	3469.3
1°	3373.8	3396.3	3411.4	3433.3	3437.4	3466.0	3489.8	3502.0
2°	3172.4	3244.7	3295.4	3355.8	3386.7	3438.4	3476.6	3493.7
3°	2883.9	3018.8	3121.6	3238.6	3313.4	3401.5	3460.3	3485.3
4°	2535.6	2736.7	2904.1	3086.6	3218.0	3355.5	3445.5	3479.5
5°	2169.3	2422.5	2654.1	2906.4	3104.0	3300.9	3429.4	3475.7
6°	1806.9	2099.9	2383.3	2701.4	2984.1	3235.4	3411.7	3471.8
7°	1483.1	1789.9	2108.3	2482.3	2821.9	3155.7	3386.0	3466.7
8°	1198.7	1501.7	1840.3	2255.4	2660.3	3063.1	3347.5	3453.8
9°	967.4	1250.1	1594.2	2034.4	2488.7	2960.0	3305.1	3433.3
10°	780.1	1032.6	1368.0	1823.0	2319.4	2851.7	3253.0	3406.3
12.5°	490.6	656.1	924.0	1353.3	1918.4	2563.2	3101.1	3311.2
15°	345.4	449.5	639.4	983.1	1542.2	2270.2	2926.0	3192.9
17.5°	267.3	336.7	463.0	731.2	1245.3	1999.0	2725.8	3007.2
20°	219.4	269.9	363.4	570.6	1016.2	1756.2	2501.2	2794.6
22.5°	186.7	225.2	299.1	465.9	847.6	1540.9	2279.5	2572.9
25°	162.2	193.7	253.5	396.1	735.1	1357.8	2042.1	2335.8
27.5°	147.1	170.3	222.3	348.0	659.6	1189.7	1804.7	2086.4
30°	136.5	155.5	196.9	313.3	602.4	1027.5	1539.9	1808.2
32.5°	128.8	142.7	179.9	291.1	568.0	900.6	1336.6	1598.7
35°	123.4	134.3	167.7	277.9	543.0	792.3	1166.9	1400.8
37.5°	118.9	128.2	158.7	271.8	517.9	691.4	1015.9	1220.2
40°	114.4	123.1	153.3	269.2	483.9	595.7	886.1	1055.7
42.5°	111.5	118.6	150.0	271.2	444.7	516.6	767.2	907.3
45°	110.2	114.4	146.8	270.8	400.0	444.7	659.3	773.0
47.5°	109.6	110.8	144.3	266.7	351.2	386.2	570.9	653.5
50°	108.6	108.9	143.6	253.8	303.6	333.2	487.4	545.5
52.5°	102.8	106.7	143.0	237.4	257.0	288.8	416.4	453.7
55°	92.2	102.5	142.0	211.7	216.9	249.3	350.2	372.0
57.5°	83.5	93.5	138.5	184.1	183.5	214.6	290.4	301.4
60°	77.1	84.8	128.8	156.8	153.6	182.8	235.2	241.0
62.5°	70.4	77.8	114.7	131.1	129.2	151.6	186.0	186.3
65°	62.3	71.0	98.6	107.0	108.6	126.3	146.5	145.9
67.5°	54.9	62.7	82.6	86.4	90.9	102.8	113.7	111.2
70°	47.6	53.3	66.8	69.7	74.5	82.6	85.8	82.9
72.5°	40.5	44.7	52.7	55.6	59.4	63.6	63.6	60.4
75°	34.1	36.3	40.5	43.1	46.3	47.6	45.6	43.1
77.5°	28.0	29.2	30.8	32.4	34.4	33.4	31.8	30.2
80°	22.8	23.5	23.5	24.1	24.1	23.1	20.9	20.6
82.5°	18.3	19.0	18.0	17.0	16.1	14.5	13.2	12.2
85°	14.5	14.5	13.5	11.9	10.0	8.4	7.1	6.4
87.5°	10.9	10.9	9.6	8.0	5.8	4.2	2.9	2.6
90°	8.4	8.4	6.7	5.1	3.2	1.6	0.6	0.0
92.5°	6.4	5.8	4.5	2.9	1.3	0.6	0.0	0.0
95°	4.8	4.2	2.6	1.3	0.6	0.0	0.0	0.0



TEST NUMBER: P273421

CATALOG NUMBER: 0.05-06W-830-10-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
97.5°	3.2	2.6	1.3	0.6	0.0	0.0	0.0	0.0
100°	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0
102.5°	1.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.3	0.0	0.0	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
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)