

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: P273415

Luminaire Tested: **0.05-06W-827-10-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P273415  
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-827-10-STD-UNV-AN-3F0  
Description: iO LIGHTING SERIES 2.0 LINEAR LED LUMINAIRE. 10 DEGREE OPTIC.  
HIGH OUTPUT  
Light Source: 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

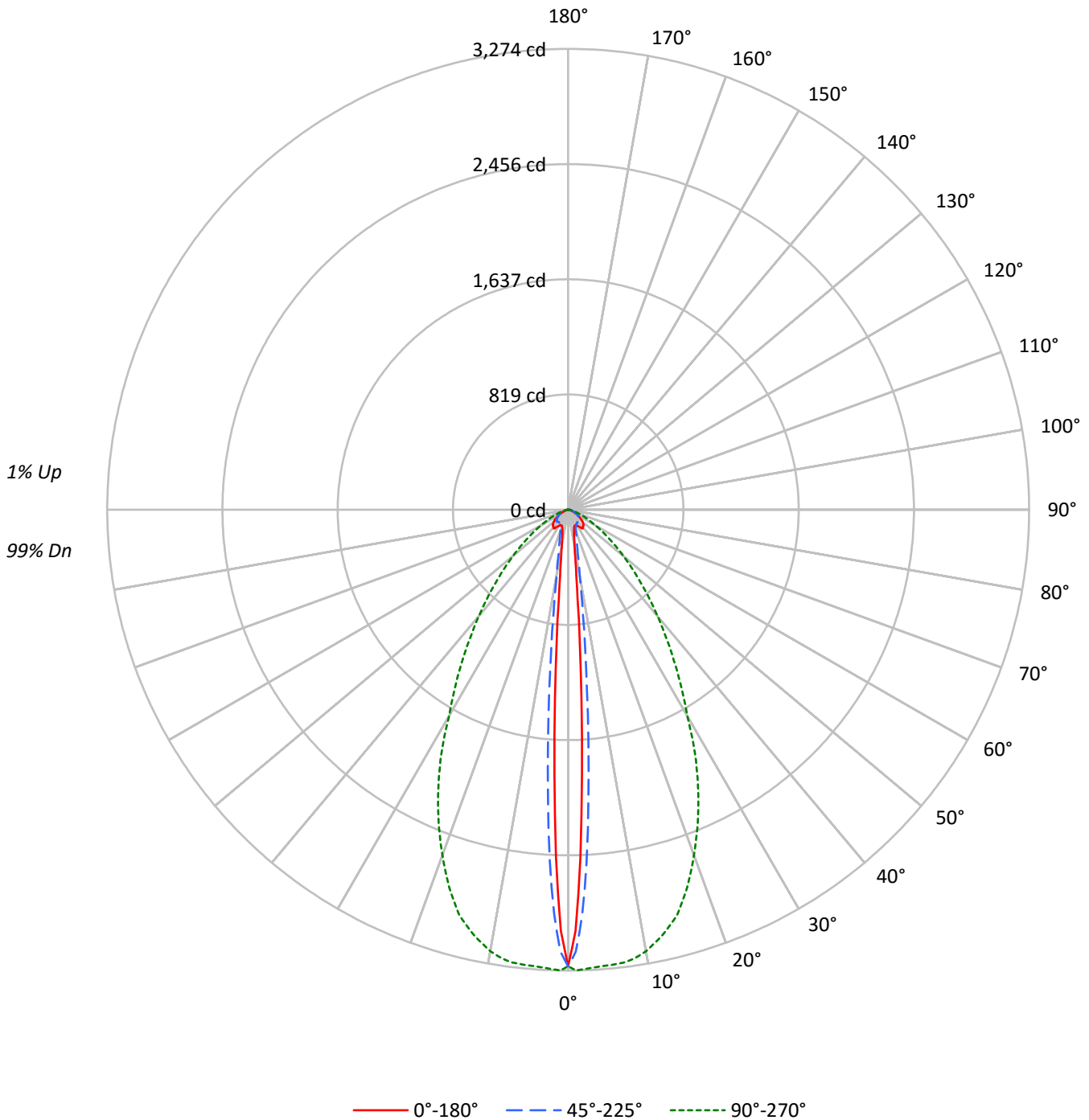
Lumens per Lamp: N/A  
Luminaire Lumens: 1117.3 lumens  
Efficiency: N/A  
Efficacy: 48.2 lumens/watt  
Spacing Criteria (0/90/45): 0.12 / 0.93 / 0.2  
Luminous Opening: Rectangular (W 2.92' x L: 0.21' x H: 0')  
CIE Type: Direct

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°	57462	57462	57462
5°	16431	29219	57788
10°	4657	8461	57289
15°	2898	4302	54750
20°	2379	3035	49256
25°	2385	2519	42686
30°	2686	2410	34583
35°	3404	2416	28325
40°	3765	2583	22826
45°	3883	2951	18107
50°	3668	2888	14058
55°	3302	2875	10745
60°	2629	2735	7982
65°	2066	2544	5717
70°	1709	2289	4014
75°	1519	2033	2758
80°	1591	1928	1959
85°	2256	2439	1219



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.8	13.5
10°-20°	190.8	17.1
20°-30°	185.1	16.6
30°-40°	176.4	15.8
40°-50°	162.6	14.6
50°-60°	125.3	11.2
60°-70°	74.0	6.6
70°-80°	33.9	3.0
80°-90°	12.6	1.1
90°-100°	4.3	0.4
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°	526.7	47.1
0°-40°	703.1	62.9
0°-60°	991.0	88.7
0°-90°	1111.6	99.5
90°-120°	5.8	0.5
90°-150°	5.8	0.5
90°-180°	6.0	0.5
0°-180°	1117.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3244	3244	3244	3244	3244	
5°	924	1108	1643	2600	3250	74
15°	158	170	235	758	2985	46
25°	122	121	129	304	2184	58
35°	157	136	112	208	1310	97
45°	155	141	118	195	723	117
55°	107	108	93	165	348	94
65°	49	54	61	96	136	50
75°	22	24	30	39	40	24
85°	11	11	12	12	6	10
90°	8	8	8	6	0	4
95°	6	5	5	2	0	4
105°	2	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3243.8	3243.8	3243.8	3243.8	3243.8	3243.8	3243.8	3243.8	3243.8	3243.8	3243.8
1°	2993.5	3018.8	2979.1	3054.8	3025.7	3048.8	3088.4	3114.6	3137.1	3139.5	3164.1
2°	2470.2	2538.1	2482.2	2591.9	2582.0	2630.0	2701.2	2759.8	2817.8	2874.9	2922.6
3°	1879.3	1955.3	1940.9	2016.9	2032.8	2101.9	2199.9	2290.6	2387.3	2500.9	2585.0
4°	1342.5	1399.9	1417.9	1457.6	1516.7	1573.2	1678.1	1790.4	1916.6	2053.6	2198.0
5°	924.0	971.5	985.0	1018.7	1077.2	1138.5	1235.0	1350.0	1486.1	1643.2	1808.7
6°	642.6	676.8	688.5	714.7	758.2	810.8	890.7	990.1	1116.3	1277.0	1447.9
7°	474.6	497.2	505.9	525.1	556.0	595.1	655.8	734.8	838.4	982.3	1166.2
8°	375.5	383.0	389.3	403.7	426.3	453.9	498.7	558.1	638.7	757.9	914.1
9°	303.4	310.3	315.1	325.9	342.5	362.9	396.5	441.9	503.5	585.5	707.1
10°	258.9	262.9	266.5	274.6	286.6	301.9	326.8	360.5	408.5	470.4	580.7
12.5°	193.5	192.9	195.9	201.0	208.8	217.5	230.7	249.3	274.9	308.8	370.7
15°	158.0	158.3	160.4	163.7	167.9	173.0	181.1	193.5	209.7	234.6	269.2
17.5°	136.4	136.7	137.9	140.0	143.0	147.5	153.5	161.0	172.4	189.6	213.3
20°	126.2	125.9	126.5	127.7	129.5	131.9	135.2	139.4	147.8	161.0	179.3
22.5°	122.3	122.3	122.3	122.0	122.3	122.9	125.0	128.3	132.8	140.6	153.8
25°	122.0	122.3	122.0	121.1	121.1	120.8	120.5	121.4	123.5	128.9	137.3
27.5°	124.7	124.4	123.5	122.0	120.8	119.9	119.3	119.0	119.3	121.4	127.1
30°	131.3	130.7	128.9	126.2	123.5	120.8	118.4	117.2	116.9	117.8	120.2
32.5°	141.2	140.3	138.2	133.7	130.1	125.3	121.1	116.6	114.2	114.2	115.7
35°	157.4	155.6	152.3	146.9	139.4	132.5	126.2	119.6	114.5	111.7	112.1
37.5°	169.1	168.5	167.0	161.9	154.7	145.1	134.0	123.8	116.9	110.8	108.4
40°	162.8	161.9	159.8	157.1	155.0	152.9	144.2	131.3	120.8	111.7	106.6
42.5°	157.7	157.1	155.0	150.5	147.5	144.2	141.2	137.3	125.9	114.5	106.6
45°	155.0	154.4	152.6	148.7	143.9	138.5	133.1	129.2	125.9	117.8	107.5
47.5°	143.0	142.7	142.1	141.2	139.4	136.4	128.9	122.0	116.3	114.8	109.0
50°	133.1	133.1	132.8	131.0	129.2	126.8	124.7	118.1	109.6	104.8	104.2
52.5°	122.0	122.0	122.0	121.4	120.2	117.5	114.8	111.4	105.7	97.6	94.3
55°	106.9	107.2	107.8	108.1	108.4	106.9	105.4	101.5	98.2	93.1	86.5
57.5°	90.4	90.7	91.9	92.8	94.0	94.6	94.9	93.1	89.5	85.6	81.1
60°	74.2	74.5	75.7	77.2	79.3	81.1	82.6	83.2	80.8	77.2	74.2
62.5°	60.4	60.4	61.9	63.1	65.2	67.3	70.0	71.5	71.2	69.4	66.4
65°	49.3	49.6	50.5	51.4	52.9	55.0	58.0	60.4	61.6	60.7	58.6
67.5°	40.3	40.6	41.2	42.1	43.0	44.8	47.2	50.2	52.0	52.3	51.4
70°	33.0	33.3	33.6	34.2	35.1	36.3	38.2	40.9	43.0	44.2	44.2
72.5°	27.3	27.3	27.6	28.2	28.8	29.7	31.2	32.7	34.8	36.6	37.2
75°	22.2	22.5	22.8	22.8	23.4	23.7	24.9	26.1	27.6	29.7	30.6
77.5°	18.6	18.6	18.6	18.6	19.2	19.5	20.1	21.0	22.2	23.7	24.9
80°	15.6	15.6	15.6	15.6	15.6	15.9	16.5	16.8	17.4	18.9	20.1
82.5°	13.2	13.2	13.2	13.2	13.2	13.5	13.5	13.8	14.4	15.0	15.9
85°	11.1	11.1	11.1	11.1	11.1	11.1	11.4	11.4	11.7	12.0	12.3
87.5°	9.3	9.3	9.3	9.3	9.3	9.3	9.6	9.6	9.6	9.6	9.9
90°	8.1	8.1	8.1	8.1	8.1	7.8	7.8	7.8	7.8	7.8	7.8
92.5°	6.9	6.9	6.9	6.9	6.9	6.6	6.6	6.3	6.3	6.3	6.3
95°	5.7	5.7	5.7	5.4	5.4	5.4	5.4	5.1	5.1	5.1	4.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
97.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.2	4.2	3.9	3.9	3.3
100°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.3	3.0	2.7	2.7
102.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.4	2.4	2.1	1.5
105°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	1.8	1.8	1.2	0.9
107.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.2	0.9	0.6	0.0
110°	1.8	1.8	1.8	1.5	1.8	1.5	1.2	0.9	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°	3243.8	3243.8	3243.8	3243.8	3243.8	3243.8	3243.8	3243.8
1°	3154.5	3175.6	3189.7	3210.1	3214.0	3240.7	3263.0	3274.4
2°	2966.2	3033.8	3081.2	3137.7	3166.5	3214.9	3250.7	3266.6
3°	2696.4	2822.6	2918.7	3028.1	3098.1	3180.4	3235.3	3258.8
4°	2370.8	2558.8	2715.3	2886.0	3008.8	3137.4	3221.5	3253.4
5°	2028.3	2265.0	2481.6	2717.4	2902.2	3086.3	3206.5	3249.8
6°	1689.5	1963.4	2228.4	2525.8	2790.1	3025.1	3190.0	3246.2
7°	1386.7	1673.5	1971.2	2320.9	2638.4	2950.6	3165.9	3241.3
8°	1120.8	1404.1	1720.7	2108.8	2487.3	2864.0	3129.9	3229.3
9°	904.5	1168.9	1490.6	1902.2	2326.9	2767.6	3090.2	3210.1
10°	729.4	965.5	1279.1	1704.5	2168.6	2666.4	3041.6	3184.9
12.5°	458.7	613.4	864.0	1265.3	1793.7	2396.6	2899.5	3096.0
15°	322.9	420.3	597.8	919.2	1441.9	2122.6	2735.8	2985.4
17.5°	249.9	314.8	432.9	683.7	1164.4	1869.1	2548.6	2811.8
20°	205.2	252.3	339.8	533.5	950.2	1642.0	2338.6	2612.9
22.5°	174.5	210.6	279.7	435.6	792.5	1440.7	2131.4	2405.6
25°	151.7	181.1	237.0	370.4	687.3	1269.5	1909.4	2183.9
27.5°	137.6	159.2	207.9	325.3	616.7	1112.4	1687.4	1950.8
30°	127.7	145.4	184.1	292.9	563.3	960.7	1439.8	1690.7
32.5°	120.5	133.4	168.2	272.2	531.1	842.0	1249.7	1494.8
35°	115.4	125.6	156.8	259.8	507.7	740.8	1091.1	1309.8
37.5°	111.1	119.9	148.4	254.1	484.2	646.5	949.9	1140.9
40°	106.9	115.1	143.3	251.7	452.4	556.9	828.5	987.1
42.5°	104.2	110.8	140.3	253.5	415.8	483.0	717.4	848.3
45°	103.0	106.9	137.3	253.2	374.0	415.8	616.4	722.8
47.5°	102.4	103.6	134.9	249.3	328.3	361.1	533.8	611.0
50°	101.5	101.8	134.3	237.3	283.9	311.5	455.7	510.1
52.5°	96.1	99.7	133.7	222.0	240.3	270.1	389.3	424.2
55°	86.2	95.8	132.8	198.0	202.8	233.1	327.4	347.9
57.5°	78.1	87.4	129.5	172.1	171.5	200.7	271.6	281.8
60°	72.1	79.3	120.5	146.6	143.6	170.9	219.9	225.3
62.5°	65.8	72.7	107.2	122.6	120.8	141.8	173.9	174.2
65°	58.3	66.4	92.2	100.0	101.5	118.1	137.0	136.4
67.5°	51.4	58.6	77.2	80.8	85.0	96.1	106.3	103.9
70°	44.5	49.9	62.5	65.2	69.7	77.2	80.2	77.5
72.5°	37.9	41.8	49.3	52.0	55.6	59.5	59.5	56.5
75°	31.8	33.9	37.9	40.3	43.3	44.5	42.7	40.3
77.5°	26.1	27.3	28.8	30.3	32.1	31.2	29.7	28.2
80°	21.3	21.9	21.9	22.5	22.5	21.6	19.5	19.2
82.5°	17.1	17.7	16.8	15.9	15.0	13.5	12.3	11.4
85°	13.5	13.5	12.6	11.1	9.3	7.8	6.6	6.0
87.5°	10.2	10.2	9.0	7.5	5.4	3.9	2.7	2.4
90°	7.8	7.8	6.3	4.8	3.0	1.5	0.6	0.0
92.5°	6.0	5.4	4.2	2.7	1.2	0.6	0.0	0.0
95°	4.5	3.9	2.4	1.2	0.6	0.0	0.0	0.0





TEST NUMBER: P273415

CATALOG NUMBER: 0.05-06W-827-10-STD-UNV-AN-3F0

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
97.5°	3.0	2.4	1.2	0.6	0.0	0.0	0.0	0.0
100°	1.8	1.2	0.6	0.0	0.0	0.0	0.0	0.0
102.5°	0.9	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)