

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: P273414

Luminaire Tested: **0.05-06W-827-5-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-246-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 0.05-06W-827-5-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES 2.0 LINEAR LED LUMINAIRE. 5 DEGREE OPTIC.
HIGH OUTPUT
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1067.5 lumens
Efficiency: N/A
Efficacy: 46.0 lumens/watt
Spacing Criteria (0/90/45): 0.17 / 1.31 / 0.22
Luminous Opening: Rectangular (W 2.92' x L: 0.21' x H: 0')
CIE Type: Direct

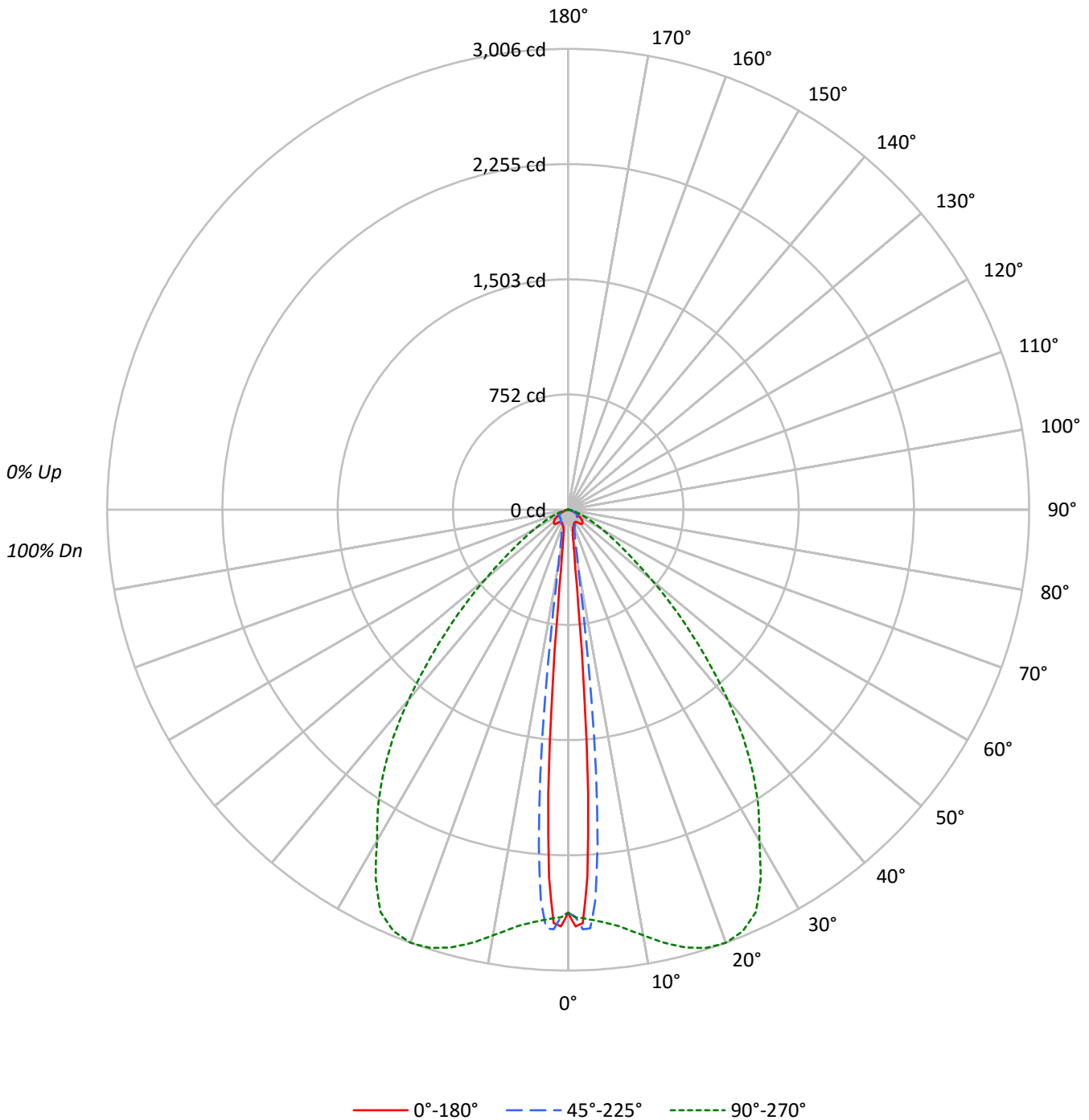
Input Watts (W): 23.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100					100			
1	111	108	104	101	109	105	102	100	101	99	96	97	95	93	94	92	91	89					89			
2	104	97	92	87	101	95	91	86	92	88	84	89	85	82	86	83	81	79					79			
3	97	88	82	77	94	87	81	76	84	79	75	81	77	74	79	75	72	70					70			
4	91	81	74	69	88	80	73	68	77	72	67	75	70	66	73	69	66	64					64			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	60	68	63	60	58					58			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53					53			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49					49			
8	72	60	53	49	70	60	53	48	59	53	48	57	52	48	56	51	48	46					46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	65	54	47	43	64	53	47	43	52	47	43	52	46	42	51	46	42	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	46552	46552	46552
5°	21066	39094	48065
10°	3297	6530	50707
15°	2215	2998	54211
20°	1966	2300	56676
25°	1867	2050	56590
30°	1892	1923	50988
35°	2119	1812	45445
40°	2710	1771	37395
45°	3252	1844	28123
50°	3337	2037	19410
55°	3203	2273	12956
60°	2703	2321	9070
65°	2104	2293	6170
70°	1631	2134	4169
75°	1396	1848	2717
80°	1377	1653	1714
85°	1707	1829	1098



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.3	14.7
10°-20°	189.4	17.7
20°-30°	180.0	16.9
30°-40°	161.6	15.1
40°-50°	146.8	13.8
50°-60°	116.8	10.9
60°-70°	70.5	6.6
70°-80°	31.4	2.9
80°-90°	10.0	0.9
90°-100°	2.7	0.3
100°-110°	0.8	0.1
110°-120°	0.0	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	49.3
0°-40°	688.3	64.5
0°-60°	951.9	89.2
0°-90°	1063.9	99.7
90°-120°	3.6	0.3
90°-150°	3.6	0.3
90°-180°	4.0	0.4
0°-180°	1067.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2628	2628	2628	2628	2628	
5°	1185	1488	2198	2747	2703	78
15°	121	126	164	663	2956	35
25°	96	96	105	202	2895	44
35°	98	90	84	158	2102	64
45°	130	114	74	149	1123	97
55°	104	100	74	122	420	91
65°	50	55	55	73	147	51
75°	20	23	27	34	40	22
85°	8	9	9	9	5	8
90°	5	5	5	4	0	3
95°	4	4	3	1	0	3
105°	1	2	1	0	0	1
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°	2627.9	2627.9	2627.9	2627.9	2627.9	2627.9	2627.9	2627.9	2627.9	2627.9	2627.9
1°	2718.9	2673.9	2671.2	2672.1	2680.2	2685.0	2693.7	2707.5	2674.5	2656.4	2653.4
2°	2699.1	2710.5	2714.4	2721.3	2741.2	2745.4	2752.9	2757.7	2753.2	2738.8	2728.9
3°	2397.7	2446.7	2470.8	2491.5	2546.2	2572.3	2607.5	2642.3	2700.9	2734.6	2748.1
4°	1856.3	1918.2	1946.7	1982.2	2074.4	2130.0	2216.3	2308.2	2439.8	2550.1	2622.8
5°	1184.7	1245.4	1278.5	1330.5	1442.3	1534.5	1666.1	1807.6	2014.0	2198.5	2351.5
6°	638.5	684.2	708.8	747.3	834.1	920.9	1066.4	1238.8	1478.3	1740.3	1984.0
7°	383.7	402.9	415.5	435.1	479.8	531.5	622.9	731.0	957.6	1232.2	1538.7
8°	278.8	284.2	291.5	301.7	321.8	347.6	396.3	456.4	589.5	791.1	1079.9
9°	219.0	223.2	228.1	235.3	248.2	264.1	287.2	324.5	393.3	511.7	715.4
10°	183.3	186.0	189.6	194.7	203.7	215.1	232.0	256.9	297.2	363.0	471.7
12.5°	137.6	137.9	138.8	141.5	146.0	151.7	162.3	173.4	192.9	220.5	260.5
15°	120.8	121.4	121.7	122.9	125.0	127.4	131.6	137.3	146.6	163.5	185.1
17.5°	112.4	112.7	112.7	113.9	115.4	116.9	118.4	122.0	126.8	135.5	148.4
20°	104.3	104.0	104.3	104.6	106.7	108.2	110.3	113.3	116.6	122.0	129.5
22.5°	99.5	99.2	99.2	99.2	99.8	100.4	101.9	104.3	108.5	113.6	119.9
25°	95.5	95.2	94.9	94.9	95.5	96.8	97.4	98.0	100.4	104.9	111.8
27.5°	92.2	92.5	91.9	91.3	91.6	92.2	93.1	94.9	95.8	98.0	103.7
30°	92.5	92.2	91.3	90.4	89.2	88.6	88.9	89.5	91.6	94.0	97.1
32.5°	93.7	93.1	91.9	90.7	89.8	88.3	86.2	85.6	86.2	89.2	92.5
35°	98.0	97.4	95.2	92.8	90.7	88.3	85.9	83.8	82.3	83.8	87.7
37.5°	107.0	105.8	103.1	99.2	94.6	90.4	86.2	82.3	80.2	79.3	81.7
40°	117.2	116.3	113.0	108.5	102.8	95.8	88.3	82.6	78.4	76.6	77.5
42.5°	125.9	125.3	122.3	117.5	111.2	103.7	94.0	85.3	78.7	74.5	74.2
45°	129.8	128.6	126.5	122.9	117.5	110.0	100.4	89.5	79.6	73.6	71.2
47.5°	126.8	126.2	124.7	122.3	118.4	113.0	104.3	93.7	82.3	73.6	68.8
50°	121.1	120.8	119.6	117.2	114.5	110.6	104.6	95.8	85.0	73.9	67.3
52.5°	113.6	113.3	113.0	110.9	108.5	105.5	100.7	94.0	85.0	74.8	66.1
55°	103.7	103.7	103.4	103.4	101.6	98.9	94.6	89.2	82.3	73.6	64.9
57.5°	91.0	91.6	91.3	91.9	92.5	91.0	87.7	83.5	77.8	70.0	62.5
60°	76.3	76.9	77.2	78.1	79.9	81.1	79.6	76.6	71.8	65.5	58.6
62.5°	62.8	63.4	63.7	64.9	66.1	68.5	69.7	68.8	65.5	60.4	54.1
65°	50.2	51.1	51.4	52.3	54.1	56.2	58.3	59.8	58.0	54.7	49.6
67.5°	40.0	40.0	40.9	42.1	43.6	45.7	47.8	49.9	50.2	48.4	44.5
70°	31.5	32.2	32.5	33.4	34.9	36.4	37.9	40.3	41.8	41.2	39.4
72.5°	25.2	25.8	26.1	26.7	27.6	29.1	30.3	31.8	33.7	34.3	33.4
75°	20.4	20.7	20.7	21.3	22.2	23.1	24.0	24.9	26.1	27.0	27.3
77.5°	16.8	16.8	16.8	16.8	17.7	18.0	18.9	19.5	20.1	21.3	22.2
80°	13.5	13.5	13.5	13.2	13.8	14.1	14.4	14.7	15.3	16.2	17.4
82.5°	10.5	10.5	10.5	10.5	10.8	11.1	11.1	11.1	11.7	12.0	13.2
85°	8.4	8.4	8.4	8.4	8.4	8.7	8.7	8.7	8.7	9.0	9.6
87.5°	6.6	6.6	6.6	6.6	6.9	6.9	6.9	6.9	6.9	6.9	6.9
90°	5.4	5.1	5.1	5.1	5.4	5.4	5.4	5.1	5.1	5.1	5.1
92.5°	4.2	4.2	4.2	4.2	4.2	4.8	4.2	4.2	4.2	4.2	3.6
95°	3.6	3.6	3.6	3.6	3.6	3.9	3.6	3.6	3.0	3.0	3.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
97.5°	3.0	3.0	3.0	3.0	3.0	3.3	3.0	3.0	2.4	2.4	1.8
100°	2.4	2.4	2.4	2.4	2.4	2.7	2.4	2.4	1.8	1.8	1.2
102.5°	1.8	1.8	1.8	1.8	1.8	2.4	1.8	1.8	1.2	1.2	0.6
105°	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.2	0.6	0.6	0.0
107.5°	0.9	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.0	0.0
110°	0.6	0.6	0.6	0.6	0.9	1.2	0.9	0.6	0.3	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°	2627.9	2627.9	2627.9	2627.9	2627.9	2627.9	2627.9	2627.9
1°	2652.2	2639.9	2634.5	2636.9	2636.6	2642.0	2651.3	2659.2
2°	2715.9	2692.5	2677.8	2667.0	2655.8	2652.2	2660.1	2665.8
3°	2751.4	2744.2	2731.6	2711.1	2688.3	2672.7	2673.6	2676.6
4°	2685.3	2737.3	2760.7	2751.1	2725.3	2698.8	2690.7	2688.6
5°	2499.6	2639.0	2726.5	2766.7	2757.7	2729.2	2708.1	2703.0
6°	2206.6	2449.1	2619.8	2735.8	2775.4	2758.0	2727.7	2718.0
7°	1840.1	2177.8	2447.9	2658.2	2770.9	2783.2	2750.5	2737.3
8°	1431.7	1856.0	2215.4	2535.4	2738.2	2805.2	2778.4	2763.7
9°	1025.2	1497.2	1941.6	2365.6	2675.1	2818.4	2810.0	2791.4
10°	703.7	1133.1	1635.8	2159.8	2580.1	2814.5	2841.8	2819.0
12.5°	330.5	490.4	864.4	1530.9	2224.1	2718.3	2902.5	2893.5
15°	221.7	287.5	437.8	887.9	1733.4	2502.9	2925.7	2956.0
17.5°	172.5	210.6	287.5	496.4	1198.0	2201.8	2881.2	2996.9
20°	143.6	172.2	223.2	339.5	749.7	1831.4	2767.9	3006.5
22.5°	128.9	148.1	187.5	274.0	513.5	1454.6	2597.3	2975.8
25°	120.2	133.7	165.6	237.7	411.3	1101.8	2382.4	2895.3
27.5°	112.1	124.7	151.4	214.8	364.5	826.0	2093.1	2717.4
30°	104.6	116.3	140.6	201.6	339.8	658.6	1779.4	2492.7
32.5°	97.7	109.1	133.1	193.8	327.5	577.2	1515.3	2310.0
35°	92.5	102.8	126.8	189.9	320.6	524.0	1262.9	2101.5
37.5°	88.3	97.7	121.7	186.9	314.0	480.1	1070.3	1874.9
40°	82.6	93.4	118.4	185.4	305.0	435.7	907.1	1617.1
42.5°	77.8	88.3	115.4	185.1	292.4	393.6	797.1	1363.5
45°	73.6	83.5	113.3	183.9	274.9	354.3	703.1	1122.6
47.5°	69.7	79.3	110.3	179.1	252.4	316.4	623.8	902.6
50°	66.1	75.4	107.0	171.0	227.8	280.3	549.6	704.3
52.5°	63.4	71.2	102.8	159.5	200.7	247.9	475.6	542.0
55°	61.0	68.2	98.3	145.1	175.5	218.1	414.6	419.5
57.5°	58.0	64.6	92.8	128.6	152.6	189.3	352.5	326.9
60°	54.7	60.7	85.6	110.9	130.7	161.7	288.8	256.0
62.5°	50.5	56.5	77.2	93.1	109.7	134.6	223.2	194.7
65°	46.0	51.1	67.3	77.8	90.7	114.5	171.0	147.2
67.5°	41.5	46.0	57.7	65.8	75.1	95.5	127.1	110.6
70°	37.0	39.7	48.4	55.3	61.9	76.6	91.0	80.5
72.5°	32.2	33.7	39.4	45.7	49.3	59.2	64.3	57.1
75°	26.7	27.6	31.8	37.0	38.5	44.8	44.2	39.7
77.5°	22.2	22.2	24.6	28.5	29.7	31.8	29.1	26.4
80°	17.7	17.4	18.0	20.4	21.6	20.7	18.6	16.8
82.5°	13.8	13.8	13.5	14.1	14.1	12.9	11.1	10.2
85°	10.2	10.2	9.9	9.0	8.4	6.9	5.4	5.4
87.5°	7.5	7.5	6.6	5.4	4.5	3.0	1.8	1.8
90°	5.1	4.8	4.2	3.0	1.8	0.9	0.0	0.0
92.5°	3.6	3.0	2.4	1.8	0.6	0.0	0.0	0.0
95°	2.4	1.8	1.2	0.6	0.0	0.0	0.0	0.0



TEST NUMBER: P273414

CATALOG NUMBER: 0.05-06W-827-5-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
97.5°	1.8	1.2	0.6	0.0	0.0	0.0	0.0	0.0
100°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	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)