

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: P273426

Luminaire Tested: **0.05-06W-835-5-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273426
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-835-5-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES 2.0 LINEAR LED LUMINAIRE. 5 DEGREE OPTIC.
HIGH OUTPUT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1187.4 lumens
Efficiency: N/A
Efficacy: 51.2 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

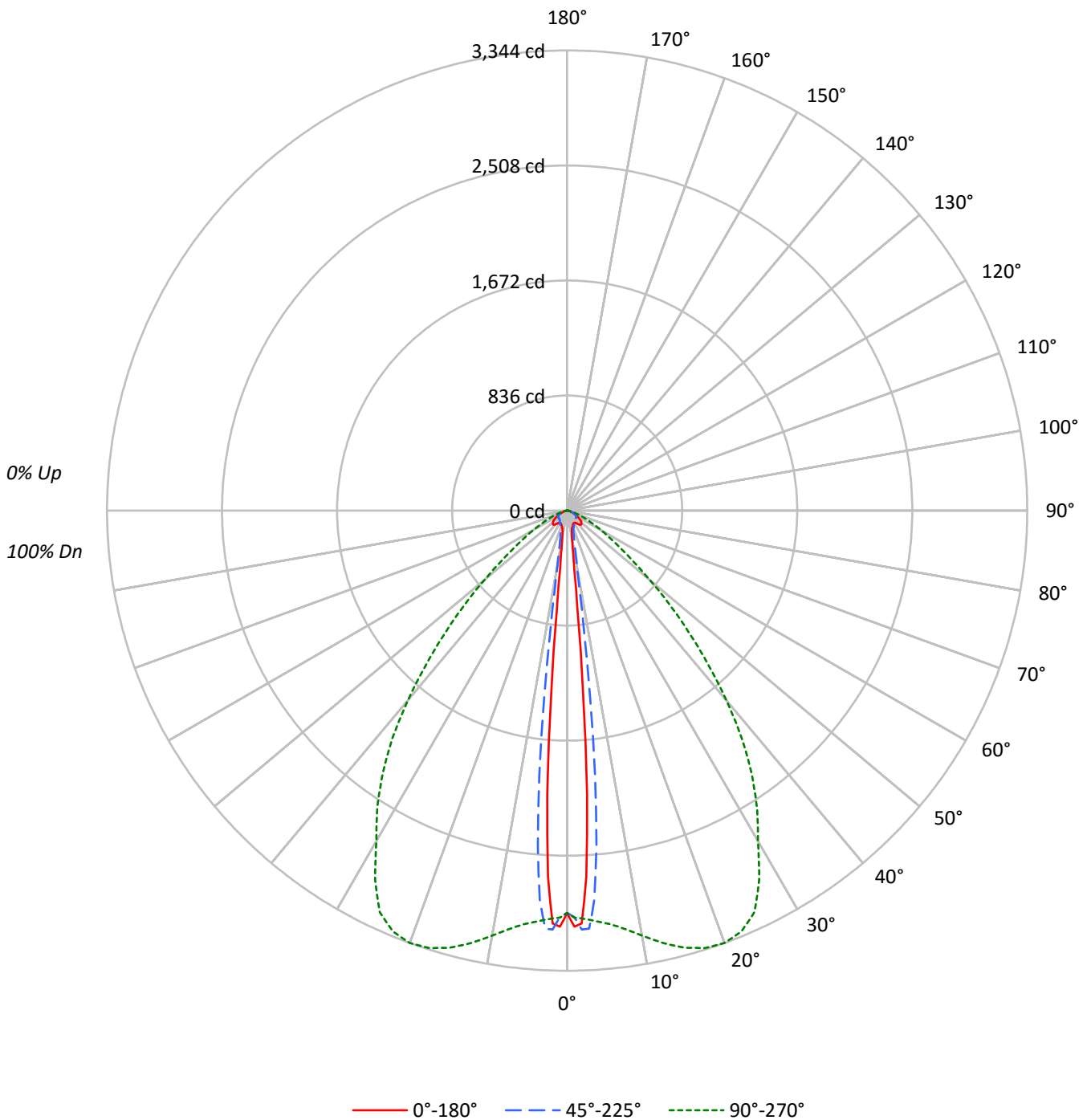
Input Watts (W): 23.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P273426

CATALOG NUMBER: 0.05-06W-835-5-STD-UNV-AN-3F0

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°	51779	51779	51779
5°	23433	43484	53463
10°	3668	7262	56402
15°	2465	3334	60299
20°	2187	2558	63040
25°	2078	2279	62947
30°	2105	2140	56713
35°	2357	2015	50549
40°	3013	1970	41594
45°	3617	2052	31280
50°	3712	2265	21589
55°	3561	2529	14410
60°	3008	2583	10087
65°	2339	2548	6866
70°	1818	2372	4641
75°	1554	2060	3018
80°	1530	1836	1908
85°	1911	2032	1219



TEST NUMBER: P273426

CATALOG NUMBER: 0.05-06W-835-5-STD-UNV-AN-3F0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.0	14.7
10°-20°	210.7	17.7
20°-30°	200.2	16.9
30°-40°	179.8	15.1
40°-50°	163.3	13.8
50°-60°	130.0	10.9
60°-70°	78.4	6.6
70°-80°	34.9	2.9
80°-90°	11.2	0.9
90°-100°	3.0	0.3
100°-110°	0.9	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°	585.8	49.3
0°-40°	765.6	64.5
0°-60°	1058.9	89.2
0°-90°	1183.4	99.7
90°-120°	4.0	0.3
90°-150°	4.0	0.3
90°-180°	4.0	0.3
0°-180°	1187.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2923	2923	2923	2923	2923	
5°	1318	1656	2445	3055	3007	87
15°	134	140	182	737	3288	39
25°	106	107	117	224	3220	49
35°	109	100	93	176	2338	71
45°	144	126	82	165	1249	108
55°	115	112	82	135	467	101
65°	56	61	61	81	164	57
75°	23	25	30	38	44	25
85°	9	10	10	10	6	9
90°	6	6	6	4	0	3
95°	4	4	3	1	0	3
105°	1	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



TEST NUMBER: P273426

CATALOG NUMBER: 0.05-06W-835-5-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2923.0	2923.0	2923.0	2923.0	2923.0	2923.0	2923.0	2923.0	2923.0	2923.0	2923.0
1°	3024.3	2974.1	2971.1	2972.1	2981.2	2986.5	2996.2	3011.6	2974.8	2954.8	2951.4
2°	3002.2	3014.9	3019.3	3027.0	3049.0	3053.7	3062.0	3067.4	3062.4	3046.3	3035.3
3°	2667.0	2721.5	2748.2	2771.3	2832.1	2861.2	2900.3	2939.1	3004.2	3041.7	3056.7
4°	2064.8	2133.6	2165.4	2204.8	2307.4	2369.2	2465.1	2567.4	2713.8	2836.5	2917.3
5°	1317.8	1385.3	1422.1	1479.9	1604.2	1706.8	1853.2	2010.6	2240.2	2445.4	2615.5
6°	710.2	761.0	788.4	831.2	927.8	1024.4	1186.1	1378.0	1644.3	1935.8	2206.8
7°	426.8	448.2	462.2	483.9	533.7	591.2	692.8	813.1	1065.1	1370.6	1711.5
8°	310.1	316.2	324.2	335.5	357.9	386.7	440.8	507.7	655.7	880.0	1201.2
9°	243.6	248.3	253.7	261.7	276.1	293.8	319.5	360.9	437.5	569.2	795.8
10°	203.9	206.9	210.9	216.6	226.6	239.3	258.0	285.8	330.5	403.7	524.7
12.5°	153.1	153.4	154.4	157.4	162.4	168.8	180.5	192.8	214.6	245.3	289.8
15°	134.4	135.0	135.4	136.7	139.0	141.7	146.4	152.7	163.1	181.8	205.9
17.5°	125.0	125.3	125.3	126.7	128.3	130.0	131.7	135.7	141.0	150.7	165.1
20°	116.0	115.6	116.0	116.3	118.6	120.3	122.7	126.0	129.7	135.7	144.0
22.5°	110.6	110.3	110.3	110.3	111.0	111.6	113.3	116.0	120.7	126.3	133.4
25°	106.3	105.9	105.6	105.6	106.3	107.6	108.3	109.0	111.6	116.6	124.3
27.5°	102.6	102.9	102.3	101.6	101.9	102.6	103.6	105.6	106.6	109.0	115.3
30°	102.9	102.6	101.6	100.6	99.3	98.6	98.9	99.6	101.9	104.6	108.0
32.5°	104.3	103.6	102.3	100.9	99.9	98.3	95.9	95.3	95.9	99.3	102.9
35°	109.0	108.3	105.9	103.3	100.9	98.3	95.6	93.2	91.6	93.2	97.6
37.5°	119.0	117.6	114.6	110.3	105.3	100.6	95.9	91.6	89.2	88.2	90.9
40°	130.3	129.3	125.7	120.7	114.3	106.6	98.3	91.9	87.2	85.2	86.2
42.5°	140.0	139.4	136.0	130.7	123.7	115.3	104.6	94.9	87.6	82.9	82.6
45°	144.4	143.0	140.7	136.7	130.7	122.3	111.6	99.6	88.6	81.9	79.2
47.5°	141.0	140.4	138.7	136.0	131.7	125.7	116.0	104.3	91.6	81.9	76.5
50°	134.7	134.4	133.0	130.3	127.3	123.0	116.3	106.6	94.6	82.2	74.9
52.5°	126.3	126.0	125.7	123.3	120.7	117.3	112.0	104.6	94.6	83.2	73.5
55°	115.3	115.3	115.0	115.0	113.0	110.0	105.3	99.3	91.6	81.9	72.2
57.5°	101.3	101.9	101.6	102.3	102.9	101.3	97.6	92.9	86.6	77.9	69.5
60°	84.9	85.6	85.9	86.9	88.9	90.2	88.6	85.2	79.9	72.9	65.2
62.5°	69.9	70.5	70.9	72.2	73.5	76.2	77.5	76.5	72.9	67.2	60.2
65°	55.8	56.8	57.2	58.2	60.2	62.5	64.8	66.5	64.5	60.8	55.1
67.5°	44.5	44.5	45.5	46.8	48.5	50.8	53.1	55.5	55.8	53.8	49.5
70°	35.1	35.8	36.1	37.1	38.8	40.4	42.1	44.8	46.5	45.8	43.8
72.5°	28.1	28.7	29.1	29.7	30.7	32.4	33.8	35.4	37.4	38.1	37.1
75°	22.7	23.1	23.1	23.7	24.7	25.7	26.7	27.7	29.1	30.1	30.4
77.5°	18.7	18.7	18.7	18.7	19.7	20.1	21.1	21.7	22.4	23.7	24.7
80°	15.0	15.0	15.0	14.7	15.4	15.7	16.0	16.4	17.0	18.0	19.4
82.5°	11.7	11.7	11.7	11.7	12.0	12.4	12.4	12.4	13.0	13.4	14.7
85°	9.4	9.4	9.4	9.4	9.4	9.7	9.7	9.7	9.7	10.0	10.7
87.5°	7.4	7.4	7.4	7.4	7.7	7.7	7.7	7.7	7.7	7.7	7.7
90°	6.0	5.7	5.7	5.7	6.0	6.0	6.0	5.7	5.7	5.7	5.7
92.5°	4.7	4.7	4.7	4.7	4.7	5.3	4.7	4.7	4.7	4.7	4.0
95°	4.0	4.0	4.0	4.0	4.0	4.3	4.0	4.0	3.3	3.3	3.3



TEST NUMBER: P273426

CATALOG NUMBER: 0.05-06W-835-5-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
97.5°	3.3	3.3	3.3	3.3	3.3	3.7	3.3	3.3	2.7	2.7	2.0
100°	2.7	2.7	2.7	2.7	2.7	3.0	2.7	2.7	2.0	2.0	1.3
102.5°	2.0	2.0	2.0	2.0	2.0	2.7	2.0	2.0	1.3	1.3	0.7
105°	1.3	1.3	1.3	1.3	2.0	2.0	2.0	1.3	0.7	0.7	0.0
107.5°	1.0	1.3	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.0	0.0
110°	0.7	0.7	0.7	0.7	1.0	1.3	1.0	0.7	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



TEST NUMBER: P273426

CATALOG NUMBER: 0.05-06W-835-5-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2923.0	2923.0	2923.0	2923.0	2923.0	2923.0	2923.0	2923.0
1°	2950.1	2936.4	2930.4	2933.0	2932.7	2938.7	2949.1	2957.8
2°	3020.9	2994.9	2978.5	2966.5	2954.1	2950.1	2958.8	2965.1
3°	3060.4	3052.4	3038.3	3015.6	2990.2	2972.8	2973.8	2977.2
4°	2986.8	3044.7	3070.7	3060.0	3031.3	3001.9	2992.9	2990.5
5°	2780.3	2935.4	3032.6	3077.4	3067.4	3035.6	3012.2	3006.6
6°	2454.4	2724.2	2914.0	3043.0	3087.1	3067.7	3034.0	3023.3
7°	2046.7	2422.4	2722.8	2956.8	3082.1	3095.8	3059.4	3044.7
8°	1592.5	2064.4	2464.1	2820.1	3045.7	3120.2	3090.5	3074.1
9°	1140.3	1665.4	2159.7	2631.2	2975.5	3134.9	3125.5	3104.8
10°	782.7	1260.3	1819.4	2402.3	2869.9	3130.6	3161.0	3135.6
12.5°	367.6	545.4	961.5	1702.8	2473.8	3023.6	3228.5	3218.5
15°	246.6	319.8	486.9	987.6	1928.1	2784.0	3254.2	3288.0
17.5°	191.8	234.3	319.8	552.1	1332.5	2449.1	3204.8	3333.4
20°	159.8	191.5	248.3	377.7	833.9	2037.0	3078.8	3344.1
22.5°	143.4	164.8	208.5	304.8	571.2	1617.9	2888.9	3310.0
25°	133.7	148.7	184.2	264.4	457.5	1225.6	2650.0	3220.5
27.5°	124.7	138.7	168.4	239.0	405.4	918.7	2328.1	3022.6
30°	116.3	129.3	156.4	224.3	378.0	732.6	1979.2	2772.6
32.5°	108.6	121.3	148.1	215.6	364.3	642.0	1685.4	2569.4
35°	102.9	114.3	141.0	211.2	356.6	582.9	1404.7	2337.5
37.5°	98.3	108.6	135.4	207.9	349.3	534.1	1190.5	2085.5
40°	91.9	103.9	131.7	206.2	339.2	484.6	1009.0	1798.7
42.5°	86.6	98.3	128.3	205.9	325.2	437.8	886.7	1516.7
45°	81.9	92.9	126.0	204.5	305.8	394.0	782.1	1248.6
47.5°	77.5	88.2	122.7	199.2	280.7	351.9	693.8	1004.0
50°	73.5	83.9	119.0	190.2	253.3	311.8	611.3	783.4
52.5°	70.5	79.2	114.3	177.5	223.3	275.7	529.1	602.9
55°	67.8	75.9	109.3	161.4	195.2	242.6	461.2	466.6
57.5°	64.5	71.9	103.3	143.0	169.8	210.6	392.0	363.6
60°	60.8	67.5	95.3	123.3	145.4	179.8	321.2	284.7
62.5°	56.1	62.8	85.9	103.6	122.0	149.7	248.3	216.6
65°	51.1	56.8	74.9	86.6	100.9	127.3	190.2	163.8
67.5°	46.1	51.1	64.2	73.2	83.6	106.3	141.4	123.0
70°	41.1	44.1	53.8	61.5	68.8	85.2	101.3	89.6
72.5°	35.8	37.4	43.8	50.8	54.8	65.8	71.5	63.5
75°	29.7	30.7	35.4	41.1	42.8	49.8	49.1	44.1
77.5°	24.7	24.7	27.4	31.8	33.1	35.4	32.4	29.4
80°	19.7	19.4	20.1	22.7	24.1	23.1	20.7	18.7
82.5°	15.4	15.4	15.0	15.7	15.7	14.4	12.4	11.4
85°	11.4	11.4	11.0	10.0	9.4	7.7	6.0	6.0
87.5°	8.4	8.4	7.4	6.0	5.0	3.3	2.0	2.0
90°	5.7	5.3	4.7	3.3	2.0	1.0	0.0	0.0
92.5°	4.0	3.3	2.7	2.0	0.7	0.0	0.0	0.0
95°	2.7	2.0	1.3	0.7	0.0	0.0	0.0	0.0



TEST NUMBER: P273426

CATALOG NUMBER: 0.05-06W-835-5-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
97.5°	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0
100°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.7	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)