

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: P273427

Luminaire Tested: **0.05-06W-835-10-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273427
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-835-10-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES 2.0 LINEAR LED LUMINAIRE. 10 DEGREE OPTIC.
HIGH OUTPUT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1242.8 lumens
Efficiency: N/A
Efficacy: 53.6 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

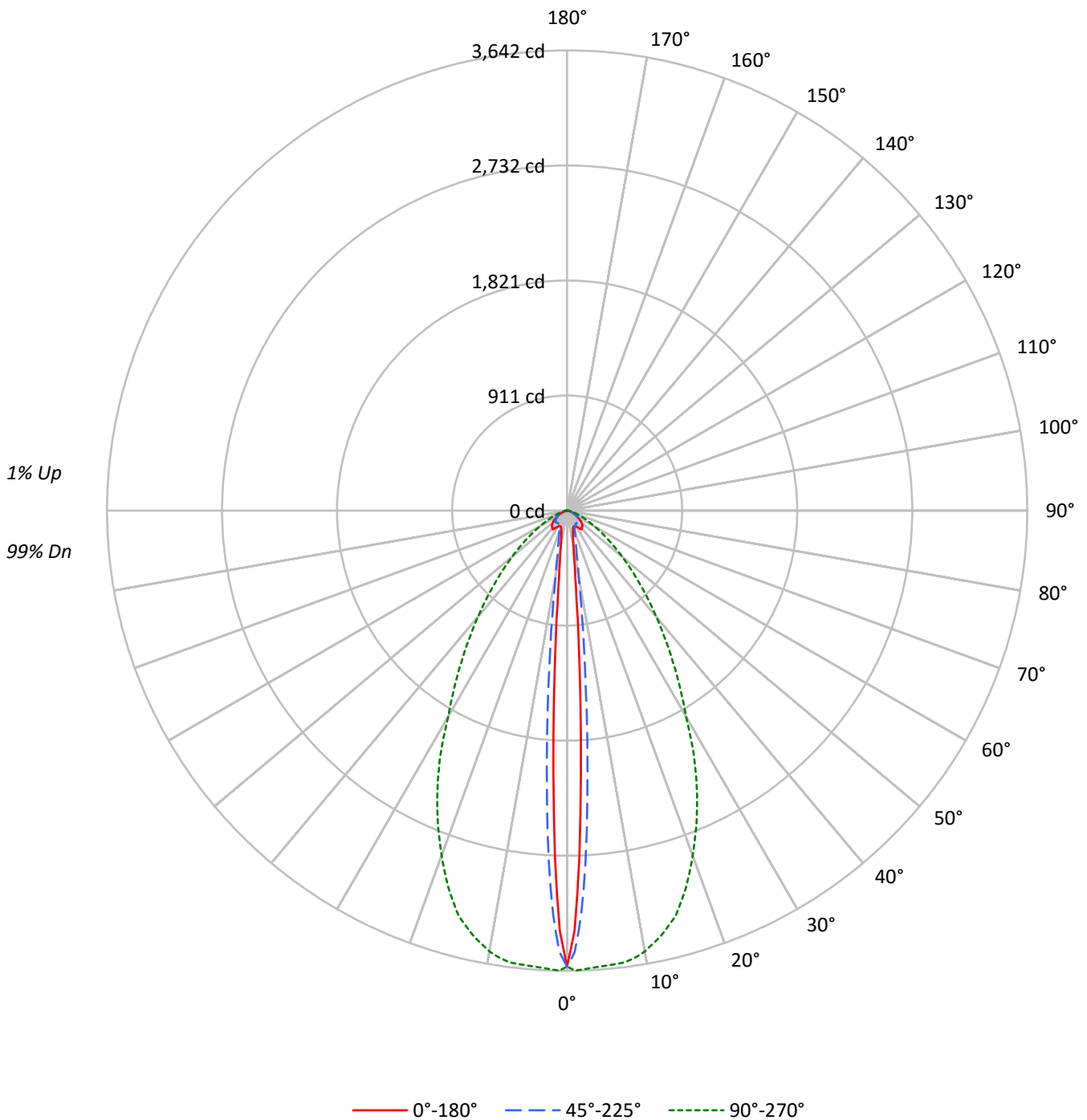
Input Watts (W): 23.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	63913	63913	63913
5°	18276	32500	64277
10°	5180	9413	63721
15°	3224	4787	60899
20°	2645	3376	54787
25°	2652	2801	47480
30°	2986	2680	38465
35°	3787	2688	31504
40°	4188	2874	25391
45°	4319	3282	20139
50°	4079	3213	15637
55°	3675	3200	11949
60°	2923	3043	8878
65°	2297	2829	6359
70°	1906	2543	4465
75°	1691	2265	3066
80°	1775	2152	2183
85°	2520	2724	1362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.7	13.5
10°-20°	212.2	17.1
20°-30°	205.9	16.6
30°-40°	196.2	15.8
40°-50°	180.8	14.6
50°-60°	139.4	11.2
60°-70°	82.3	6.6
70°-80°	37.8	3.0
80°-90°	14.0	1.1
90°-100°	4.8	0.4
100°-110°	1.5	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°	585.8	47.1
0°-40°	782.0	62.9
0°-60°	1102.3	88.7
0°-90°	1236.4	99.5
90°-120°	6.4	0.5
90°-150°	6.4	0.5
90°-180°	6.0	0.5
0°-180°	1242.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3608	3608	3608	3608	3608	
5°	1028	1232	1828	2891	3615	82
15°	176	190	261	844	3321	52
25°	136	134	143	338	2429	64
35°	175	151	124	232	1457	108
45°	172	157	131	217	804	130
55°	119	120	104	184	387	105
65°	55	60	68	107	152	56
75°	25	26	33	43	45	27
85°	12	12	13	13	7	11
90°	9	9	9	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°	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0
1°	3329.7	3357.8	3313.6	3397.9	3365.4	3391.2	3435.3	3464.3	3489.4	3492.1	3519.5
2°	2747.6	2823.1	2761.0	2882.9	2871.9	2925.4	3004.6	3069.7	3134.2	3197.7	3250.8
3°	2090.4	2174.9	2158.9	2243.4	2261.1	2338.0	2446.9	2547.8	2655.4	2781.7	2875.3
4°	1493.3	1557.1	1577.1	1621.2	1687.1	1749.9	1866.5	1991.5	2131.8	2284.2	2444.9
5°	1027.8	1080.6	1095.6	1133.1	1198.2	1266.4	1373.6	1501.6	1653.0	1827.7	2011.8
6°	714.7	752.8	765.8	794.9	843.4	901.8	990.7	1101.3	1241.7	1420.4	1610.5
7°	527.9	553.0	562.7	584.1	618.5	661.9	729.4	817.3	932.6	1092.6	1297.1
8°	417.7	426.0	433.0	449.1	474.1	504.9	554.7	620.8	710.4	843.0	1016.8
9°	337.5	345.2	350.5	362.5	380.9	403.6	441.1	491.5	560.0	651.2	786.6
10°	288.0	292.4	296.4	305.4	318.8	335.8	363.5	401.0	454.4	523.3	645.9
12.5°	215.2	214.5	217.9	223.5	232.2	241.9	256.6	277.3	305.7	343.5	412.3
15°	175.8	176.1	178.4	182.1	186.8	192.5	201.5	215.2	233.2	261.0	299.4
17.5°	151.7	152.0	153.4	155.7	159.0	164.1	170.7	179.1	191.8	210.8	237.2
20°	140.3	140.0	140.7	142.0	144.0	146.7	150.4	155.0	164.4	179.1	199.5
22.5°	136.0	136.0	136.0	135.7	136.0	136.7	139.0	142.7	147.7	156.4	171.1
25°	135.7	136.0	135.7	134.7	134.7	134.3	134.0	135.0	137.3	143.3	152.7
27.5°	138.7	138.3	137.3	135.7	134.3	133.3	132.7	132.3	132.7	135.0	141.3
30°	146.0	145.4	143.3	140.3	137.3	134.3	131.7	130.3	130.0	131.0	133.7
32.5°	157.0	156.0	153.7	148.7	144.7	139.3	134.7	129.6	127.0	127.0	128.6
35°	175.1	173.1	169.4	163.4	155.0	147.4	140.3	133.0	127.3	124.3	124.6
37.5°	188.1	187.5	185.8	180.1	172.1	161.4	149.0	137.7	130.0	123.3	120.6
40°	181.1	180.1	177.8	174.8	172.4	170.1	160.4	146.0	134.3	124.3	118.6
42.5°	175.4	174.8	172.4	167.4	164.1	160.4	157.0	152.7	140.0	127.3	118.6
45°	172.4	171.7	169.7	165.4	160.1	154.0	148.0	143.7	140.0	131.0	119.6
47.5°	159.0	158.7	158.0	157.0	155.0	151.7	143.3	135.7	129.3	127.6	121.3
50°	148.0	148.0	147.7	145.7	143.7	141.0	138.7	131.3	122.0	116.6	115.9
52.5°	135.7	135.7	135.7	135.0	133.7	130.6	127.6	124.0	117.6	108.6	104.9
55°	119.0	119.3	120.0	120.3	120.6	119.0	117.3	112.9	109.3	103.6	96.2
57.5°	100.6	100.9	102.2	103.2	104.6	105.3	105.6	103.6	99.6	95.2	90.2
60°	82.5	82.9	84.2	85.9	88.2	90.2	91.9	92.6	89.9	85.9	82.5
62.5°	67.2	67.2	68.8	70.2	72.5	74.8	77.9	79.5	79.2	77.2	73.8
65°	54.8	55.1	56.1	57.1	58.8	61.1	64.5	67.2	68.5	67.5	65.2
67.5°	44.8	45.1	45.8	46.8	47.8	49.8	52.5	55.8	57.8	58.1	57.1
70°	36.8	37.1	37.4	38.1	39.1	40.4	42.4	45.4	47.8	49.1	49.1
72.5°	30.4	30.4	30.7	31.4	32.1	33.1	34.8	36.4	38.8	40.8	41.4
75°	24.7	25.1	25.4	25.4	26.1	26.4	27.7	29.1	30.7	33.1	34.1
77.5°	20.7	20.7	20.7	20.7	21.4	21.7	22.4	23.4	24.7	26.4	27.7
80°	17.4	17.4	17.4	17.4	17.4	17.7	18.4	18.7	19.4	21.1	22.4
82.5°	14.7	14.7	14.7	14.7	14.7	15.0	15.0	15.4	16.0	16.7	17.7
85°	12.4	12.4	12.4	12.4	12.4	12.4	12.7	12.7	13.0	13.4	13.7
87.5°	10.4	10.4	10.4	10.4	10.4	10.4	10.7	10.7	10.7	10.7	11.0
90°	9.0	9.0	9.0	9.0	9.0	8.7	8.7	8.7	8.7	8.7	8.7
92.5°	7.7	7.7	7.7	7.7	7.7	7.4	7.4	7.0	7.0	7.0	7.0
95°	6.3	6.3	6.3	6.0	6.0	6.0	6.0	5.7	5.7	5.7	5.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
97.5°	5.0	5.0	5.0	5.0	5.0	5.0	4.7	4.7	4.3	4.3	3.7
100°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.7	3.3	3.0	3.0
102.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.7	2.7	2.3	1.7
105°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.0	2.0	1.3	1.0
107.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.3	1.0	0.7	0.0
110°	2.0	2.0	2.0	1.7	2.0	1.7	1.3	1.0	0.7	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°	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0	3608.0
1°	3508.8	3532.2	3547.9	3570.6	3574.9	3604.7	3629.4	3642.1
2°	3299.3	3374.5	3427.3	3490.1	3522.2	3575.9	3615.7	3633.4
3°	2999.2	3139.6	3246.5	3368.1	3446.0	3537.5	3598.7	3624.7
4°	2637.0	2846.2	3020.3	3210.1	3346.7	3489.7	3583.3	3618.7
5°	2256.1	2519.4	2760.3	3022.6	3228.1	3432.9	3566.6	3614.7
6°	1879.2	2183.9	2478.6	2809.4	3103.5	3364.8	3548.2	3610.7
7°	1542.4	1861.5	2192.6	2581.6	2934.7	3281.9	3521.5	3605.4
8°	1246.7	1561.8	1913.9	2345.6	2766.7	3185.7	3481.4	3592.0
9°	1006.1	1300.1	1658.0	2115.8	2588.2	3078.4	3437.3	3570.6
10°	811.3	1073.9	1422.8	1895.9	2412.1	2965.8	3383.1	3542.5
12.5°	510.2	682.3	961.0	1407.4	1995.1	2665.8	3225.1	3443.6
15°	359.2	467.5	664.9	1022.5	1603.9	2361.0	3043.0	3320.7
17.5°	278.0	350.2	481.5	760.5	1295.1	2079.0	2834.8	3127.5
20°	228.2	280.7	377.9	593.4	1056.9	1826.4	2601.3	2906.3
22.5°	194.1	234.2	311.1	484.5	881.5	1602.5	2370.7	2675.8
25°	168.7	201.5	263.6	412.0	764.5	1412.1	2123.8	2429.2
27.5°	153.0	177.1	231.2	361.9	686.0	1237.3	1876.9	2169.9
30°	142.0	161.7	204.8	325.8	626.5	1068.6	1601.5	1880.5
32.5°	134.0	148.4	187.1	302.7	590.8	936.6	1390.0	1662.7
35°	128.3	139.7	174.4	289.0	564.7	824.0	1213.6	1456.8
37.5°	123.6	133.3	165.1	282.7	538.6	719.1	1056.5	1269.1
40°	119.0	128.0	159.4	280.0	503.2	619.5	921.6	1098.0
42.5°	115.9	123.3	156.0	282.0	462.4	537.3	797.9	943.6
45°	114.6	119.0	152.7	281.7	416.0	462.4	685.7	803.9
47.5°	113.9	115.3	150.0	277.3	365.2	401.6	593.8	679.6
50°	112.9	113.3	149.4	264.0	315.8	346.5	506.9	567.4
52.5°	106.9	110.9	148.7	246.9	267.3	300.4	433.0	471.8
55°	95.9	106.6	147.7	220.2	225.5	259.3	364.2	386.9
57.5°	86.9	97.2	144.0	191.5	190.8	223.2	302.1	313.4
60°	80.2	88.2	134.0	163.1	159.7	190.1	244.6	250.6
62.5°	73.2	80.9	119.3	136.3	134.3	157.7	193.5	193.8
65°	64.8	73.8	102.6	111.3	112.9	131.3	152.4	151.7
67.5°	57.1	65.2	85.9	89.9	94.6	106.9	118.3	115.6
70°	49.5	55.5	69.5	72.5	77.5	85.9	89.2	86.2
72.5°	42.1	46.4	54.8	57.8	61.8	66.2	66.2	62.8
75°	35.4	37.8	42.1	44.8	48.1	49.5	47.4	44.8
77.5°	29.1	30.4	32.1	33.7	35.8	34.8	33.1	31.4
80°	23.7	24.4	24.4	25.1	25.1	24.1	21.7	21.4
82.5°	19.0	19.7	18.7	17.7	16.7	15.0	13.7	12.7
85°	15.0	15.0	14.0	12.4	10.4	8.7	7.4	6.7
87.5°	11.4	11.4	10.0	8.4	6.0	4.3	3.0	2.7
90°	8.7	8.7	7.0	5.3	3.3	1.7	0.7	0.0
92.5°	6.7	6.0	4.7	3.0	1.3	0.7	0.0	0.0
95°	5.0	4.3	2.7	1.3	0.7	0.0	0.0	0.0



TEST NUMBER: P273427

CATALOG NUMBER: 0.05-06W-835-10-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
97.5°	3.3	2.7	1.3	0.7	0.0	0.0	0.0	0.0
100°	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0
102.5°	1.0	0.7	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)