

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: P273422

Luminaire Tested: **0.05-06W-830-30-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-246-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 0.05-06W-830-30-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES 2.0 LINEAR LED LUMINAIRE. 30 DEGREE OPTIC.
HIGH OUTPUT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1353.7 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Spacing Criteria (0/90/45): 0.73 / 1.67 / 0.84
Luminous Opening: Rectangular (W 2.92' x L: 0.21' x H: 0')
CIE Type: Direct

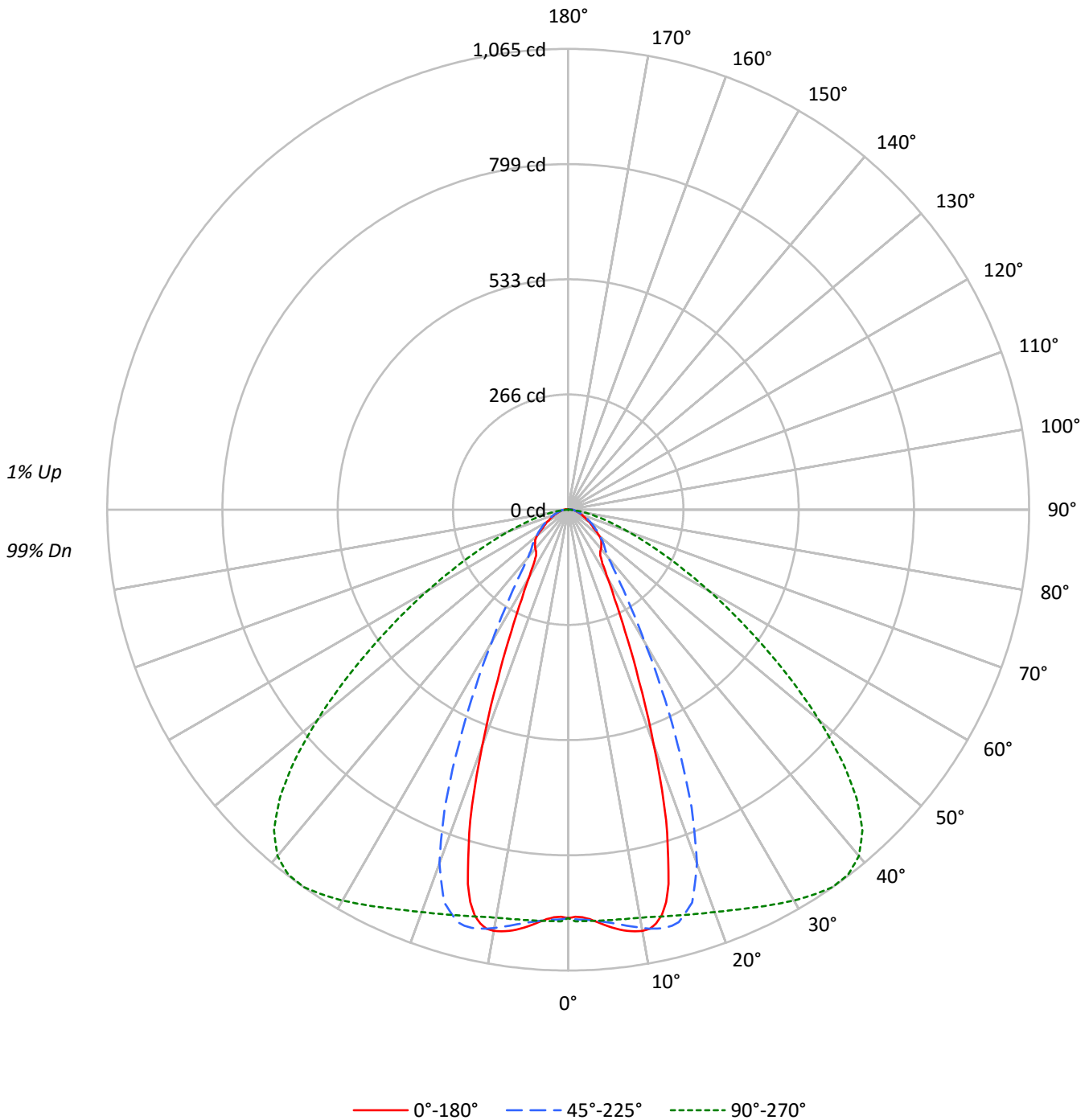
Input Watts (W): 23.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P273422

CATALOG NUMBER: 0.05-06W-830-30-STD-UNV-AN-3F0

Luminous Intensity Polar Plot





TEST NUMBER: P273422

CATALOG NUMBER: 0.05-06W-830-30-STD-UNV-AN-3F0

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	69								
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62								
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56								
6	79	67	60	55	77	67	59	54	65	59	54	63	58	53	62	57	53	51								
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	52	49	47								
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43								
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	50	45	41	40								
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	47	42	39	37								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16719	16719	16719
5°	17131	17005	16943
10°	17779	17658	17230
15°	16423	18097	17804
20°	10913	16397	18651
25°	6057	11680	19829
30°	3708	7218	21330
35°	2787	4602	23022
40°	2729	3323	24158
45°	2713	2939	23611
50°	2588	2648	20854
55°	2165	2372	17017
60°	1959	2186	13325
65°	1752	1953	10077
70°	1663	1813	7494
75°	1670	1807	5585
80°	1806	1969	3999
85°	2683	2866	2480



TEST NUMBER: P273422

CATALOG NUMBER: 0.05-06W-830-30-STD-UNV-AN-3F0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	6.8
10°-20°	262.9	19.4
20°-30°	297.3	22.0
30°-40°	244.5	18.1
40°-50°	190.1	14.0
50°-60°	131.0	9.7
60°-70°	76.0	5.6
70°-80°	37.6	2.8
80°-90°	14.9	1.1
90°-100°	5.3	0.4
100°-110°	1.9	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°	652.1	48.2
0°-40°	896.6	66.2
0°-60°	1217.7	90.0
0°-90°	1346.3	99.5
90°-120°	7.4	0.5
90°-150°	7.4	0.5
90°-180°	7.0	0.5
0°-180°	1353.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	944	944	944	944	944	
5°	963	960	956	946	953	93
15°	896	930	987	981	971	235
25°	310	366	598	957	1014	151
35°	129	138	213	588	1065	85
45°	108	106	117	265	942	83
55°	70	72	77	144	551	64
65°	42	42	47	81	240	42
75°	24	25	26	37	82	26
85°	13	14	14	12	12	12
90°	9	10	10	6	1	5
95°	7	7	6	2	0	5
105°	4	3	2	0	0	4
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: P273422

CATALOG NUMBER: 0.05-06W-830-30-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8
1°	940.9	940.5	938.6	939.9	943.4	946.7	948.3	947.6	947.3	946.7	946.3
2°	942.5	942.2	940.5	941.8	945.4	948.6	949.9	949.2	948.3	947.9	947.0
3°	947.3	947.0	945.0	946.0	949.2	951.5	952.1	951.5	950.5	949.9	948.6
4°	955.0	954.4	951.8	951.8	954.0	955.3	955.7	954.7	954.0	952.8	951.2
5°	963.4	962.1	958.9	958.5	959.8	960.8	960.2	959.2	957.9	956.3	954.7
6°	971.1	970.1	966.3	965.6	966.6	966.6	965.3	963.7	962.7	960.5	958.2
7°	977.8	976.6	973.0	972.4	973.3	973.0	971.7	969.8	968.2	965.3	962.7
8°	983.0	981.7	978.5	977.8	979.4	979.1	978.2	976.2	974.3	970.8	967.2
9°	986.5	984.9	982.0	982.0	984.3	984.6	983.9	982.3	980.4	975.9	972.7
10°	988.4	986.2	984.3	984.3	987.2	988.8	988.4	987.2	985.6	981.7	978.2
11°	986.5	983.6	983.0	983.9	987.5	990.1	991.0	991.0	990.1	986.5	983.3
12°	977.8	975.3	975.9	976.6	982.7	987.2	990.1	992.0	992.6	989.7	988.1
13°	961.8	958.9	959.8	963.4	972.0	978.8	984.9	989.4	992.9	991.7	992.0
14°	934.4	930.9	936.7	939.3	952.1	962.7	972.7	981.4	988.8	990.7	993.9
15°	895.5	892.3	900.7	904.2	921.9	937.3	952.1	966.6	979.8	986.8	993.3
17.5°	752.5	749.0	761.2	776.9	799.8	832.5	859.2	892.7	925.1	952.1	974.9
20°	578.9	581.2	589.5	605.0	635.8	671.8	712.6	763.8	815.8	869.8	918.4
22.5°	425.3	427.8	434.9	449.4	477.0	514.6	553.2	609.1	670.5	744.5	818.7
25°	309.9	314.4	317.6	330.8	352.9	379.9	415.0	461.0	520.4	597.6	685.6
27.5°	233.0	235.6	238.8	248.2	262.9	282.9	311.5	347.2	397.6	464.8	546.5
30°	181.3	182.3	185.5	192.2	200.9	216.3	236.6	263.3	299.6	352.9	420.8
32.5°	147.2	147.9	149.8	153.0	160.4	170.4	185.2	205.4	231.4	272.6	325.6
35°	128.9	129.2	130.2	131.5	135.0	140.5	149.8	164.6	183.5	212.8	254.3
37.5°	121.8	121.8	122.1	122.5	123.4	125.4	129.9	137.9	150.4	172.3	203.2
40°	118.0	118.0	118.0	117.3	117.6	118.3	120.2	124.1	129.9	143.7	165.2
42.5°	113.5	113.1	112.8	112.2	111.9	112.5	114.8	116.7	119.9	127.0	140.2
45°	108.3	108.3	108.0	106.7	106.4	106.1	106.7	108.3	112.2	117.3	124.7
47.5°	103.5	103.2	102.2	100.3	99.6	99.6	100.3	100.6	102.2	107.4	114.1
50°	93.9	93.9	93.9	92.6	92.6	92.3	92.3	93.2	94.2	96.1	101.9
52.5°	81.0	81.0	81.3	81.0	82.9	83.3	83.6	83.9	84.9	87.1	90.6
55°	70.1	70.1	70.7	70.4	71.0	72.3	74.3	76.2	76.2	76.8	80.7
57.5°	62.7	62.7	63.0	62.4	62.7	63.0	64.0	66.2	68.1	69.1	71.4
60°	55.3	55.6	55.6	55.3	55.9	56.3	56.6	57.9	58.8	61.7	63.6
62.5°	47.6	47.9	47.9	47.9	48.5	49.2	49.5	50.5	51.4	53.0	56.3
65°	41.8	41.8	41.8	41.8	42.1	42.4	43.1	44.4	44.7	46.6	48.5
67.5°	36.6	36.6	37.0	36.6	37.0	37.3	37.3	38.3	39.2	40.8	42.1
70°	32.1	32.1	32.1	32.5	32.5	32.8	32.8	33.1	33.8	35.0	36.6
72.5°	28.0	28.3	28.3	28.6	28.6	28.6	28.6	29.3	29.3	30.2	31.5
75°	24.4	24.8	24.8	24.8	24.8	25.1	25.1	25.4	25.7	26.4	27.3
77.5°	21.2	21.2	21.2	21.2	21.5	21.5	21.9	21.9	22.2	22.8	23.5
80°	17.7	18.3	18.3	18.3	18.3	18.6	18.6	19.0	19.0	19.3	19.6
82.5°	15.4	15.4	15.4	15.8	15.8	15.8	15.8	16.4	16.4	16.7	16.7
85°	13.2	13.2	13.2	13.5	13.5	13.5	13.5	13.8	13.8	14.1	13.8
87.5°	11.3	11.3	11.3	11.3	11.3	11.6	11.6	11.6	11.6	11.6	11.3



TEST NUMBER: P273422

CATALOG NUMBER: 0.05-06W-830-30-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
90°	9.3	9.6	9.6	9.6	9.6	9.6	10.0	9.6	9.6	9.6	9.3
92.5°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	7.7	7.4
95°	7.1	7.1	7.1	7.1	7.1	7.1	6.8	6.8	6.4	6.1	5.5
97.5°	6.1	5.8	5.8	5.8	5.8	5.8	5.5	5.5	5.1	4.8	4.2
100°	5.1	5.1	5.1	5.1	5.1	4.8	4.5	4.5	4.2	3.5	2.9
102.5°	4.5	4.5	4.5	4.5	4.2	4.2	3.9	3.5	3.2	2.9	2.3
105°	3.5	3.5	3.5	3.5	3.5	3.2	2.9	2.9	2.3	1.9	1.3
107.5°	2.9	2.9	2.9	2.9	2.9	2.6	2.3	2.3	1.6	1.0	0.6
110°	2.3	2.3	2.3	2.3	2.3	2.3	1.6	1.3	1.0	0.6	0.6
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: P273422

CATALOG NUMBER: 0.05-06W-830-30-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8
1°	940.9	939.9	940.2	941.2	942.8	948.6	949.9	951.5
2°	941.8	940.9	941.2	941.8	943.4	949.2	950.2	951.5
3°	943.4	941.8	942.5	942.8	943.4	949.2	950.5	951.5
4°	946.0	943.8	944.1	943.8	944.4	949.5	951.2	952.1
5°	948.9	946.0	946.3	945.7	945.4	950.5	951.8	952.8
6°	952.1	948.9	948.9	947.6	947.0	951.5	952.4	953.4
7°	956.3	951.8	951.5	949.9	948.9	952.8	953.1	954.0
8°	960.8	955.3	955.0	953.1	950.8	954.0	954.7	955.3
9°	965.3	959.2	958.2	955.7	953.1	955.7	956.0	956.0
10°	970.4	963.4	962.1	959.2	956.3	957.6	957.6	957.9
11°	975.6	967.9	966.3	962.4	959.2	960.2	959.5	959.2
12°	979.8	972.0	970.8	966.3	962.4	962.7	961.8	961.8
13°	984.3	976.9	974.6	970.4	965.9	965.9	964.7	965.0
14°	986.8	980.7	978.8	974.3	969.8	969.5	967.5	967.5
15°	988.4	983.6	982.3	978.8	974.0	973.3	970.4	970.8
17.5°	983.9	988.1	989.7	989.7	984.9	983.3	979.1	979.8
20°	954.0	973.3	990.1	996.5	994.6	994.6	989.7	989.4
22.5°	885.9	935.1	974.9	997.1	1003.2	1005.8	1002.3	1001.0
25°	776.0	857.3	932.2	982.0	1005.8	1016.7	1014.5	1014.5
27.5°	639.4	752.2	857.0	945.4	996.5	1022.8	1027.0	1028.6
30°	512.4	624.9	752.8	874.7	967.2	1021.2	1038.3	1042.8
32.5°	402.1	503.4	629.4	781.8	912.3	1006.8	1045.7	1055.0
35°	315.7	397.0	513.3	663.5	832.5	969.5	1043.1	1064.6
37.5°	249.1	316.0	414.0	554.5	731.0	906.5	1024.8	1062.7
40°	200.9	253.0	330.8	455.8	625.2	825.1	985.2	1044.7
42.5°	164.9	206.4	269.7	373.8	529.7	734.8	925.8	1006.1
45°	140.2	170.7	221.2	307.9	447.1	644.8	850.2	942.5
47.5°	125.0	145.9	186.1	258.1	379.6	562.9	763.1	857.0
50°	112.2	129.2	160.1	219.5	324.0	485.4	669.6	756.7
52.5°	98.7	114.1	140.2	189.0	278.4	417.6	578.3	653.8
55°	87.4	99.6	122.8	165.5	240.1	356.5	488.3	551.0
57.5°	77.1	87.4	106.7	144.3	209.3	301.8	406.6	459.7
60°	67.5	76.5	93.2	124.4	178.1	250.7	331.7	376.1
62.5°	60.4	66.9	81.3	107.4	149.2	206.7	271.3	302.2
65°	53.4	59.1	70.1	91.3	123.8	166.8	217.0	240.4
67.5°	45.3	51.4	59.8	77.1	100.9	133.4	171.3	187.1
70°	39.2	43.1	50.8	63.6	81.6	105.8	133.1	144.7
72.5°	33.4	36.0	42.1	51.4	64.3	82.3	101.9	109.9
75°	28.6	30.5	33.8	40.2	49.8	62.4	75.5	81.6
77.5°	24.4	25.1	27.0	30.9	36.6	45.6	54.6	58.5
80°	20.3	20.9	20.9	22.8	26.0	31.5	36.6	39.2
82.5°	16.7	16.7	16.7	16.7	17.7	20.3	22.5	23.8
85°	13.5	13.2	12.5	11.9	11.6	11.3	11.9	12.2
87.5°	11.3	10.6	9.3	8.0	6.8	5.5	4.5	4.5



TEST NUMBER: P273422

CATALOG NUMBER: 0.05-06W-830-30-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
90°	8.7	8.0	6.8	5.5	3.9	2.3	1.3	0.6
92.5°	6.8	5.8	4.5	3.2	1.9	0.6	0.0	0.0
95°	4.8	4.2	2.9	1.9	0.6	0.0	0.0	0.0
97.5°	3.5	2.6	1.6	0.6	0.0	0.0	0.0	0.0
100°	2.3	1.6	0.6	0.0	0.0	0.0	0.0	0.0
102.5°	1.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.3	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)