

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: P273428

Luminaire Tested: **0.05-06W-835-30-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273428
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-835-30-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES 2.0 LINEAR LED LUMINAIRE. 30 DEGREE OPTIC.
HIGH OUTPUT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1407.8 lumens
Efficiency: N/A
Efficacy: 60.7 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

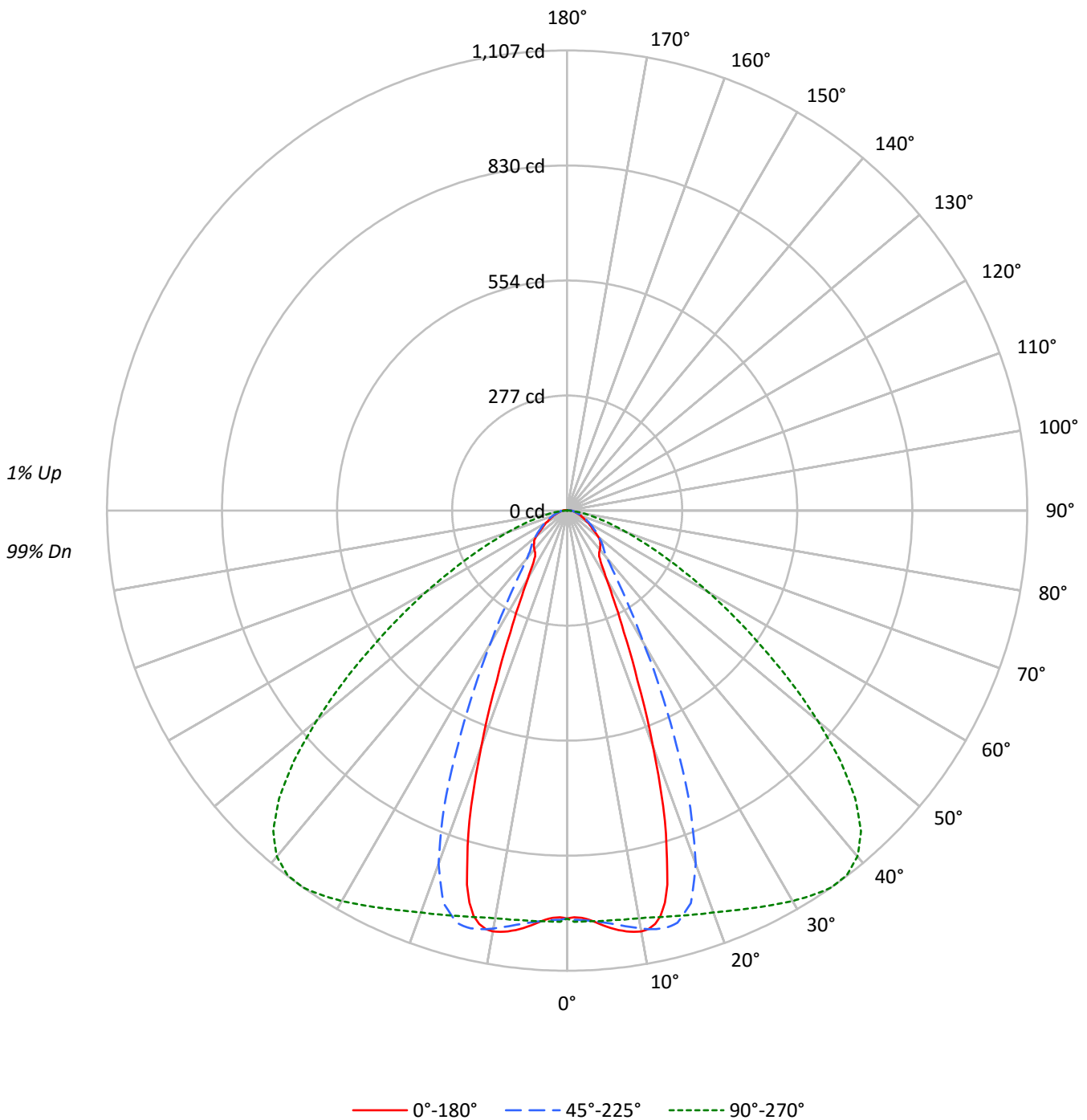
Input Watts (W): 23.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	17387	17387	17387
5°	17816	17686	17620
10°	18491	18365	17919
15°	17081	18822	18515
20°	11350	17053	19398
25°	6300	12148	20623
30°	3856	7509	22183
35°	2900	4786	23943
40°	2837	3455	25125
45°	2823	3056	24556
50°	2690	2756	21686
55°	2251	2468	17697
60°	2037	2275	13856
65°	1823	2033	10483
70°	1730	1885	7790
75°	1738	1875	5811
80°	1877	2050	4162
85°	2785	2988	2581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	6.8
10°-20°	273.5	19.4
20°-30°	309.2	22.0
30°-40°	254.3	18.1
40°-50°	197.7	14.0
50°-60°	136.2	9.7
60°-70°	79.1	5.6
70°-80°	39.1	2.8
80°-90°	15.5	1.1
90°-100°	5.5	0.4
100°-110°	2.0	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°	678.2	48.2
0°-40°	932.4	66.2
0°-60°	1266.4	90.0
0°-90°	1400.1	99.5
90°-120°	7.7	0.5
90°-150°	7.7	0.5
90°-180°	8.0	0.6
0°-180°	1407.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	982	982	982	982	982	
5°	1002	999	995	984	991	97
15°	931	967	1026	1020	1010	245
25°	322	381	622	995	1055	157
35°	134	143	221	612	1107	89
45°	113	110	122	275	980	87
55°	73	75	80	150	573	67
65°	44	44	48	84	250	44
75°	25	26	27	38	85	27
85°	14	14	15	13	13	12
90°	10	10	10	6	1	5
95°	7	7	6	2	0	6
105°	4	4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	981.5	981.5	981.5	981.5	981.5	981.5	981.5	981.5	981.5	981.5	981.5
1°	978.5	978.2	976.2	977.5	981.2	984.5	986.2	985.5	985.2	984.5	984.2
2°	980.2	979.8	978.2	979.5	983.2	986.5	987.9	987.2	986.2	985.9	984.9
3°	985.2	984.9	982.9	983.9	987.2	989.5	990.2	989.5	988.5	987.9	986.5
4°	993.2	992.5	989.9	989.9	992.2	993.5	993.9	992.9	992.2	990.9	989.2
5°	1001.9	1000.6	997.2	996.9	998.2	999.2	998.6	997.6	996.2	994.6	992.9
6°	1009.9	1008.9	1004.9	1004.2	1005.2	1005.2	1003.9	1002.2	1001.2	998.9	996.6
7°	1016.9	1015.6	1011.9	1011.3	1012.3	1011.9	1010.6	1008.6	1006.9	1003.9	1001.2
8°	1022.3	1021.0	1017.6	1016.9	1018.6	1018.3	1017.3	1015.3	1013.3	1009.6	1005.9
9°	1026.0	1024.3	1021.3	1021.3	1023.6	1024.0	1023.3	1021.6	1019.6	1014.9	1011.6
10°	1028.0	1025.6	1023.6	1023.6	1026.6	1028.3	1028.0	1026.6	1025.0	1021.0	1017.3
11°	1026.0	1023.0	1022.3	1023.3	1027.0	1029.7	1030.7	1030.7	1029.7	1026.0	1022.6
12°	1016.9	1014.3	1014.9	1015.6	1022.0	1026.6	1029.7	1031.7	1032.3	1029.3	1027.6
13°	1000.2	997.2	998.2	1001.9	1010.9	1018.0	1024.3	1029.0	1032.7	1031.3	1031.7
14°	971.8	968.1	974.2	976.8	990.2	1001.2	1011.6	1020.6	1028.3	1030.3	1033.7
15°	931.4	928.0	936.7	940.4	958.8	974.8	990.2	1005.2	1019.0	1026.3	1033.0
17.5°	782.6	778.9	791.6	808.0	831.7	865.8	893.6	928.4	962.1	990.2	1013.9
20°	602.1	604.4	613.1	629.2	661.3	698.7	741.1	794.3	848.5	904.6	955.1
22.5°	442.3	445.0	452.3	467.4	496.1	535.2	575.3	633.5	697.4	774.2	851.5
25°	322.3	326.9	330.3	344.0	367.1	395.1	431.6	479.4	541.2	621.5	713.1
27.5°	242.4	245.0	248.4	258.1	273.5	294.2	323.9	361.0	413.5	483.4	568.3
30°	188.5	189.5	192.9	199.9	208.9	225.0	246.0	273.8	311.6	367.1	437.6
32.5°	153.1	153.8	155.8	159.1	166.8	177.2	192.6	213.6	240.7	283.5	338.6
35°	134.1	134.4	135.4	136.7	140.4	146.1	155.8	171.2	190.9	221.3	264.4
37.5°	126.7	126.7	127.0	127.4	128.4	130.4	135.1	143.4	156.5	179.2	211.3
40°	122.7	122.7	122.7	122.0	122.4	123.0	125.0	129.0	135.1	149.4	171.8
42.5°	118.0	117.7	117.3	116.7	116.3	117.0	119.3	121.4	124.7	132.0	145.8
45°	112.7	112.7	112.3	111.0	110.7	110.3	111.0	112.7	116.7	122.0	129.7
47.5°	107.6	107.3	106.3	104.3	103.6	103.6	104.3	104.6	106.3	111.7	118.7
50°	97.6	97.6	97.6	96.3	96.3	95.9	95.9	96.9	98.0	100.0	106.0
52.5°	84.2	84.2	84.6	84.2	86.3	86.6	86.9	87.3	88.3	90.6	94.3
55°	72.9	72.9	73.5	73.2	73.9	75.2	77.2	79.2	79.2	79.9	83.9
57.5°	65.2	65.2	65.5	64.9	65.2	65.5	66.5	68.9	70.9	71.9	74.2
60°	57.5	57.8	57.8	57.5	58.2	58.5	58.8	60.2	61.2	64.2	66.2
62.5°	49.5	49.8	49.8	49.8	50.5	51.1	51.5	52.5	53.5	55.2	58.5
65°	43.5	43.5	43.5	43.5	43.8	44.1	44.8	46.1	46.5	48.5	50.5
67.5°	38.1	38.1	38.4	38.1	38.4	38.8	38.8	39.8	40.8	42.5	43.8
70°	33.4	33.4	33.4	33.8	33.8	34.1	34.1	34.4	35.1	36.4	38.1
72.5°	29.1	29.4	29.4	29.8	29.8	29.8	29.8	30.4	30.4	31.4	32.8
75°	25.4	25.7	25.7	25.7	25.7	26.1	26.1	26.4	26.7	27.4	28.4
77.5°	22.1	22.1	22.1	22.1	22.4	22.4	22.7	22.7	23.1	23.7	24.4
80°	18.4	19.1	19.1	19.1	19.1	19.4	19.4	19.7	19.7	20.1	20.4
82.5°	16.0	16.0	16.0	16.4	16.4	16.4	16.4	17.0	17.0	17.4	17.4
85°	13.7	13.7	13.7	14.0	14.0	14.0	14.0	14.4	14.4	14.7	14.4
87.5°	11.7	11.7	11.7	11.7	11.7	12.0	12.0	12.0	12.0	12.0	11.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
90°	9.7	10.0	10.0	10.0	10.0	10.0	10.4	10.0	10.0	10.0	9.7
92.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.0	7.7
95°	7.4	7.4	7.4	7.4	7.4	7.4	7.0	7.0	6.7	6.4	5.7
97.5°	6.4	6.0	6.0	6.0	6.0	6.0	5.7	5.7	5.3	5.0	4.3
100°	5.3	5.3	5.3	5.3	5.3	5.0	4.7	4.7	4.3	3.7	3.0
102.5°	4.7	4.7	4.7	4.7	4.3	4.3	4.0	3.7	3.3	3.0	2.3
105°	3.7	3.7	3.7	3.7	3.7	3.3	3.0	3.0	2.3	2.0	1.3
107.5°	3.0	3.0	3.0	3.0	3.0	2.7	2.3	2.3	1.7	1.0	0.7
110°	2.3	2.3	2.3	2.3	2.3	2.3	1.7	1.3	1.0	0.7	0.7
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°	981.5	981.5	981.5	981.5	981.5	981.5	981.5	981.5
1°	978.5	977.5	977.8	978.8	980.5	986.5	987.9	989.5
2°	979.5	978.5	978.8	979.5	981.2	987.2	988.2	989.5
3°	981.2	979.5	980.2	980.5	981.2	987.2	988.5	989.5
4°	983.9	981.5	981.8	981.5	982.2	987.5	989.2	990.2
5°	986.9	983.9	984.2	983.5	983.2	988.5	989.9	990.9
6°	990.2	986.9	986.9	985.5	984.9	989.5	990.5	991.5
7°	994.6	989.9	989.5	987.9	986.9	990.9	991.2	992.2
8°	999.2	993.5	993.2	991.2	988.9	992.2	992.9	993.5
9°	1003.9	997.6	996.6	993.9	991.2	993.9	994.2	994.2
10°	1009.3	1001.9	1000.6	997.6	994.6	995.9	995.9	996.2
11°	1014.6	1006.6	1004.9	1000.9	997.6	998.6	997.9	997.6
12°	1019.0	1010.9	1009.6	1004.9	1000.9	1001.2	1000.2	1000.2
13°	1023.6	1015.9	1013.6	1009.3	1004.6	1004.6	1003.2	1003.6
14°	1026.3	1020.0	1018.0	1013.3	1008.6	1008.3	1006.3	1006.3
15°	1028.0	1023.0	1021.6	1018.0	1012.9	1012.3	1009.3	1009.6
17.5°	1023.3	1027.6	1029.3	1029.3	1024.3	1022.6	1018.3	1019.0
20°	992.2	1012.3	1029.7	1036.3	1034.3	1034.3	1029.3	1029.0
22.5°	921.3	972.5	1013.9	1037.0	1043.4	1046.0	1042.4	1041.0
25°	807.0	891.6	969.5	1021.3	1046.0	1057.4	1055.1	1055.1
27.5°	664.9	782.3	891.3	983.2	1036.3	1063.8	1068.1	1069.8
30°	532.9	649.9	782.9	909.6	1005.9	1062.1	1079.8	1084.5
32.5°	418.2	523.5	654.6	813.0	948.8	1047.0	1087.5	1097.2
35°	328.3	412.9	533.9	690.0	865.8	1008.3	1084.8	1107.2
37.5°	259.1	328.6	430.6	576.7	760.2	942.7	1065.8	1105.2
40°	208.9	263.1	344.0	474.0	650.2	858.2	1024.6	1086.5
42.5°	171.5	214.6	280.5	388.8	550.9	764.2	962.8	1046.4
45°	145.8	177.5	230.0	320.3	465.0	670.6	884.2	980.2
47.5°	130.0	151.8	193.6	268.4	394.8	585.4	793.6	891.3
50°	116.7	134.4	166.5	228.3	337.0	504.8	696.4	786.9
52.5°	102.6	118.7	145.8	196.6	289.5	434.3	601.4	680.0
55°	90.9	103.6	127.7	172.2	249.7	370.7	507.8	573.0
57.5°	80.2	90.9	111.0	150.1	217.6	313.9	422.9	478.1
60°	70.2	79.6	96.9	129.4	185.2	260.8	345.0	391.1
62.5°	62.8	69.5	84.6	111.7	155.1	215.0	282.2	314.2
65°	55.5	61.5	72.9	94.9	128.7	173.5	225.7	250.1
67.5°	47.1	53.5	62.2	80.2	105.0	138.7	178.2	194.6
70°	40.8	44.8	52.8	66.2	84.9	110.0	138.4	150.4
72.5°	34.8	37.4	43.8	53.5	66.9	85.6	106.0	114.3
75°	29.8	31.8	35.1	41.8	51.8	64.9	78.6	84.9
77.5°	25.4	26.1	28.1	32.1	38.1	47.5	56.8	60.8
80°	21.1	21.7	21.7	23.7	27.1	32.8	38.1	40.8
82.5°	17.4	17.4	17.4	17.4	18.4	21.1	23.4	24.7
85°	14.0	13.7	13.0	12.4	12.0	11.7	12.4	12.7
87.5°	11.7	11.0	9.7	8.4	7.0	5.7	4.7	4.7



TEST NUMBER: P273428

CATALOG NUMBER: 0.05-06W-835-30-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
90°	9.0	8.4	7.0	5.7	4.0	2.3	1.3	0.7
92.5°	7.0	6.0	4.7	3.3	2.0	0.7	0.0	0.0
95°	5.0	4.3	3.0	2.0	0.7	0.0	0.0	0.0
97.5°	3.7	2.7	1.7	0.7	0.0	0.0	0.0	0.0
100°	2.3	1.7	0.7	0.0	0.0	0.0	0.0	0.0
102.5°	1.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.7	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)