

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: P273434

Luminaire Tested: **0.05-06W-840-30-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273434
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-840-30-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES 2.0 LINEAR LED LUMINAIRE. 30 DEGREE OPTIC.
HIGH OUTPUT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1434.9 lumens
Efficiency: N/A
Efficacy: 61.8 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

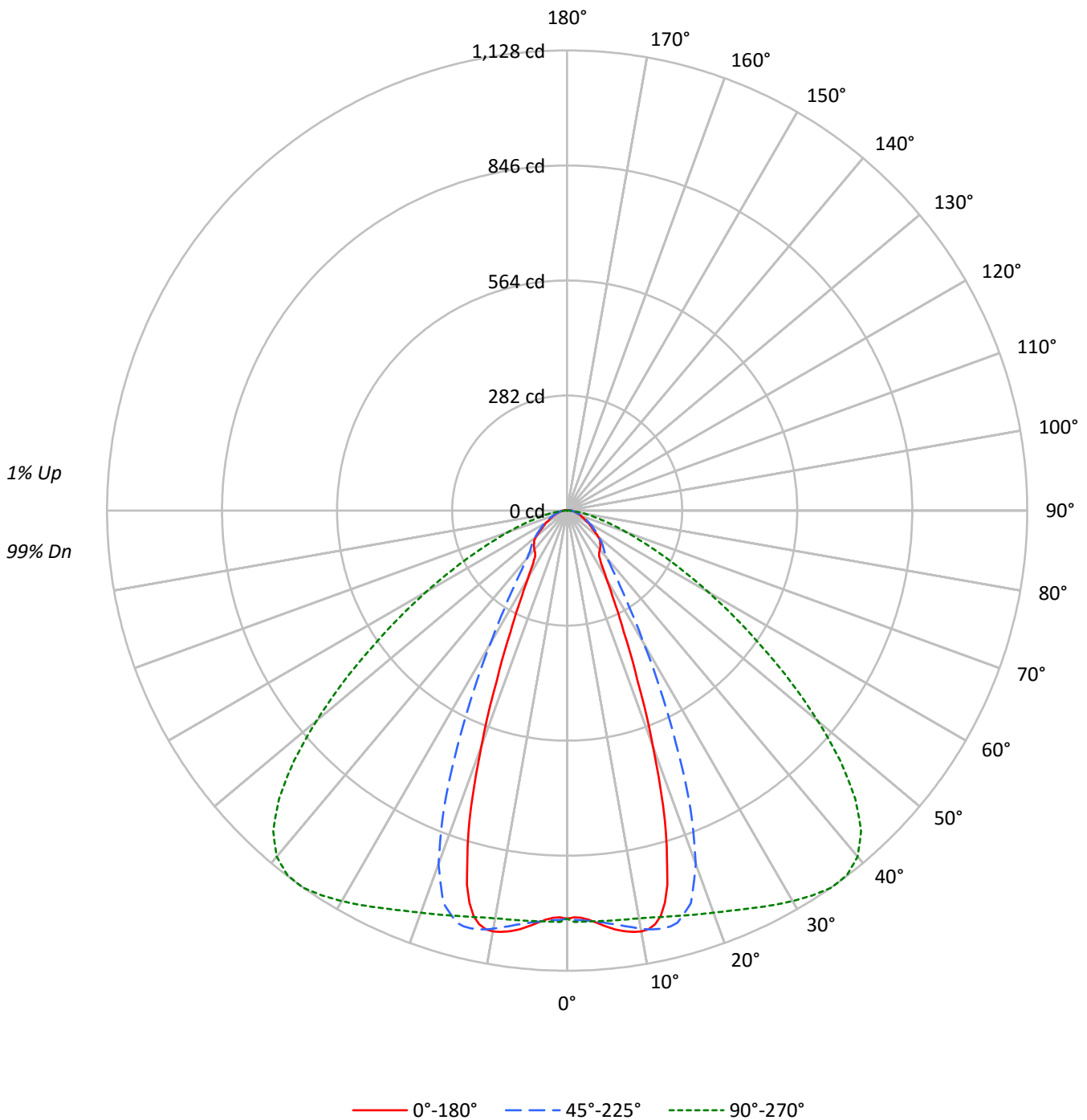
Input Watts (W): 23.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	17721	17721	17721
5°	18159	18026	17958
10°	18847	18718	18265
15°	17409	19183	18871
20°	11569	17381	19771
25°	6421	12380	21017
30°	3931	7652	22609
35°	2954	4879	24404
40°	2891	3522	25608
45°	2876	3116	25027
50°	2742	2808	22105
55°	2295	2514	18036
60°	2076	2317	14125
65°	1857	2071	10684
70°	1766	1922	7940
75°	1773	1910	5920
80°	1908	2081	4244
85°	2845	3049	2622



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	6.8
10°-20°	278.7	19.4
20°-30°	315.1	22.0
30°-40°	259.1	18.1
40°-50°	201.5	14.0
50°-60°	138.8	9.7
60°-70°	80.6	5.6
70°-80°	39.9	2.8
80°-90°	15.8	1.1
90°-100°	5.6	0.4
100°-110°	2.1	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°	691.2	48.2
0°-40°	950.3	66.2
0°-60°	1290.7	90.0
0°-90°	1427.0	99.5
90°-120°	7.9	0.5
90°-150°	7.9	0.5
90°-180°	8.0	0.6
0°-180°	1434.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1000	1000	1000	1000	1000	
5°	1021	1018	1014	1003	1010	98
15°	949	985	1046	1039	1029	250
25°	328	388	633	1014	1075	160
35°	137	146	226	624	1128	90
45°	115	113	124	280	999	88
55°	74	76	81	153	584	68
65°	44	45	49	86	255	44
75°	26	26	28	39	86	28
85°	14	14	15	13	13	12
90°	10	10	10	6	1	6
95°	8	8	6	3	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°	1000.4	1000.4	1000.4	1000.4	1000.4	1000.4	1000.4	1000.4	1000.4	1000.4	1000.4
1°	997.3	997.0	994.9	996.3	1000.0	1003.5	1005.2	1004.5	1004.1	1003.5	1003.1
2°	999.0	998.7	997.0	998.3	1002.1	1005.5	1006.9	1006.2	1005.2	1004.8	1003.8
3°	1004.1	1003.8	1001.8	1002.8	1006.2	1008.6	1009.2	1008.6	1007.5	1006.9	1005.5
4°	1012.3	1011.6	1008.9	1008.9	1011.3	1012.7	1013.0	1012.0	1011.3	1009.9	1008.2
5°	1021.2	1019.8	1016.4	1016.1	1017.4	1018.4	1017.8	1016.7	1015.4	1013.7	1012.0
6°	1029.4	1028.3	1024.2	1023.6	1024.6	1024.6	1023.2	1021.5	1020.5	1018.1	1015.7
7°	1036.5	1035.1	1031.4	1030.7	1031.7	1031.4	1030.0	1028.0	1026.3	1023.2	1020.5
8°	1042.0	1040.6	1037.2	1036.5	1038.2	1037.9	1036.8	1034.8	1032.8	1029.0	1025.3
9°	1045.7	1044.0	1040.9	1040.9	1043.3	1043.7	1043.0	1041.3	1039.2	1034.5	1031.1
10°	1047.8	1045.4	1043.3	1043.3	1046.4	1048.1	1047.8	1046.4	1044.7	1040.6	1036.8
11°	1045.7	1042.6	1042.0	1043.0	1046.7	1049.5	1050.5	1050.5	1049.5	1045.7	1042.3
12°	1036.5	1033.8	1034.5	1035.1	1041.6	1046.4	1049.5	1051.5	1052.2	1049.1	1047.4
13°	1019.5	1016.4	1017.4	1021.2	1030.4	1037.5	1044.0	1048.8	1052.5	1051.2	1051.5
14°	990.5	986.8	992.9	995.6	1009.2	1020.5	1031.1	1040.3	1048.1	1050.1	1053.5
15°	949.3	945.9	954.7	958.5	977.2	993.6	1009.2	1024.6	1038.6	1046.0	1052.9
17.5°	797.7	793.9	806.9	823.5	847.7	882.5	910.8	946.2	980.6	1009.2	1033.4
20°	613.7	616.0	624.9	641.3	674.0	712.1	755.4	809.6	864.8	922.0	973.5
22.5°	450.8	453.5	461.0	476.3	505.6	545.5	586.4	645.7	710.8	789.1	867.8
25°	328.5	333.2	336.6	350.6	374.1	402.7	439.9	488.6	551.6	633.4	726.8
27.5°	247.0	249.8	253.2	263.0	278.7	299.8	330.2	368.0	421.5	492.7	579.2
30°	192.2	193.2	196.6	203.8	213.0	229.3	250.8	279.1	317.6	374.1	446.0
32.5°	156.1	156.7	158.8	162.2	170.0	180.6	196.3	217.7	245.3	288.9	345.2
35°	136.6	137.0	138.0	139.4	143.1	148.9	158.8	174.5	194.6	225.6	269.5
37.5°	129.1	129.1	129.5	129.8	130.8	132.9	137.7	146.2	159.5	182.6	215.3
40°	125.0	125.0	125.0	124.4	124.7	125.4	127.4	131.5	137.7	152.3	175.1
42.5°	120.3	119.9	119.6	118.9	118.6	119.3	121.6	123.7	127.1	134.6	148.6
45°	114.8	114.8	114.5	113.1	112.8	112.4	113.1	114.8	118.9	124.4	132.2
47.5°	109.7	109.4	108.4	106.3	105.6	105.6	106.3	106.6	108.4	113.8	121.0
50°	99.5	99.5	99.5	98.1	98.1	97.8	97.8	98.8	99.8	101.9	108.0
52.5°	85.9	85.9	86.2	85.9	87.9	88.2	88.6	88.9	90.0	92.3	96.1
55°	74.3	74.3	75.0	74.6	75.3	76.7	78.7	80.8	80.8	81.4	85.5
57.5°	66.4	66.4	66.8	66.1	66.4	66.8	67.8	70.2	72.2	73.3	75.6
60°	58.6	58.9	58.9	58.6	59.3	59.6	60.0	61.3	62.4	65.4	67.5
62.5°	50.4	50.8	50.8	50.8	51.5	52.1	52.5	53.5	54.5	56.2	59.6
65°	44.3	44.3	44.3	44.3	44.6	45.0	45.7	47.0	47.4	49.4	51.5
67.5°	38.8	38.8	39.2	38.8	39.2	39.5	39.5	40.5	41.6	43.3	44.6
70°	34.1	34.1	34.1	34.4	34.4	34.8	34.8	35.1	35.8	37.1	38.8
72.5°	29.6	30.0	30.0	30.3	30.3	30.3	30.3	31.0	31.0	32.0	33.4
75°	25.9	26.2	26.2	26.2	26.2	26.6	26.6	26.9	27.3	27.9	29.0
77.5°	22.5	22.5	22.5	22.5	22.8	22.8	23.2	23.2	23.5	24.2	24.9
80°	18.7	19.4	19.4	19.4	19.4	19.8	19.8	20.1	20.1	20.4	20.8
82.5°	16.4	16.4	16.4	16.7	16.7	16.7	16.7	17.4	17.4	17.7	17.7
85°	14.0	14.0	14.0	14.3	14.3	14.3	14.3	14.7	14.7	15.0	14.7
87.5°	11.9	11.9	11.9	11.9	11.9	12.3	12.3	12.3	12.3	12.3	11.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
90°	9.9	10.2	10.2	10.2	10.2	10.2	10.6	10.2	10.2	10.2	9.9
92.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.2	7.8
95°	7.5	7.5	7.5	7.5	7.5	7.5	7.2	7.2	6.8	6.5	5.8
97.5°	6.5	6.1	6.1	6.1	6.1	6.1	5.8	5.8	5.5	5.1	4.4
100°	5.5	5.5	5.5	5.5	5.5	5.1	4.8	4.8	4.4	3.7	3.1
102.5°	4.8	4.8	4.8	4.8	4.4	4.4	4.1	3.7	3.4	3.1	2.4
105°	3.7	3.7	3.7	3.7	3.7	3.4	3.1	3.1	2.4	2.0	1.4
107.5°	3.1	3.1	3.1	3.1	3.1	2.7	2.4	2.4	1.7	1.0	0.7
110°	2.4	2.4	2.4	2.4	2.4	2.4	1.7	1.4	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°	1000.4	1000.4	1000.4	1000.4	1000.4	1000.4	1000.4	1000.4
1°	997.3	996.3	996.6	997.7	999.4	1005.5	1006.9	1008.6
2°	998.3	997.3	997.7	998.3	1000.0	1006.2	1007.2	1008.6
3°	1000.0	998.3	999.0	999.4	1000.0	1006.2	1007.5	1008.6
4°	1002.8	1000.4	1000.7	1000.4	1001.1	1006.5	1008.2	1009.2
5°	1005.8	1002.8	1003.1	1002.4	1002.1	1007.5	1008.9	1009.9
6°	1009.2	1005.8	1005.8	1004.5	1003.8	1008.6	1009.6	1010.6
7°	1013.7	1008.9	1008.6	1006.9	1005.8	1009.9	1010.3	1011.3
8°	1018.4	1012.7	1012.3	1010.3	1007.9	1011.3	1012.0	1012.7
9°	1023.2	1016.7	1015.7	1013.0	1010.3	1013.0	1013.3	1013.3
10°	1028.7	1021.2	1019.8	1016.7	1013.7	1015.0	1015.0	1015.4
11°	1034.1	1025.9	1024.2	1020.2	1016.7	1017.8	1017.1	1016.7
12°	1038.6	1030.4	1029.0	1024.2	1020.2	1020.5	1019.5	1019.5
13°	1043.3	1035.5	1033.1	1028.7	1023.9	1023.9	1022.5	1022.9
14°	1046.0	1039.6	1037.5	1032.8	1028.0	1027.6	1025.6	1025.6
15°	1047.8	1042.6	1041.3	1037.5	1032.4	1031.7	1028.7	1029.0
17.5°	1043.0	1047.4	1049.1	1049.1	1044.0	1042.3	1037.9	1038.6
20°	1011.3	1031.7	1049.5	1056.3	1054.2	1054.2	1049.1	1048.8
22.5°	939.1	991.2	1033.4	1057.0	1063.4	1066.1	1062.4	1061.0
25°	822.5	908.7	988.1	1040.9	1066.1	1077.7	1075.3	1075.3
27.5°	677.7	797.3	908.4	1002.1	1056.3	1084.2	1088.6	1090.3
30°	543.1	662.4	798.0	927.1	1025.3	1082.5	1100.6	1105.3
32.5°	426.3	533.6	667.2	828.7	967.0	1067.2	1108.4	1118.3
35°	334.6	420.8	544.1	703.3	882.5	1027.6	1105.7	1128.5
37.5°	264.1	334.9	438.9	587.8	774.8	960.9	1086.3	1126.5
40°	213.0	268.2	350.6	483.2	662.7	874.7	1044.3	1107.4
42.5°	174.8	218.7	285.9	396.3	561.5	778.9	981.3	1066.5
45°	148.6	180.9	234.4	326.4	474.0	683.5	901.2	999.0
47.5°	132.5	154.7	197.3	273.6	402.4	596.6	808.9	908.4
50°	118.9	137.0	169.7	232.7	343.5	514.5	709.7	802.1
52.5°	104.6	121.0	148.6	200.4	295.1	442.6	613.0	693.0
55°	92.7	105.6	130.2	175.5	254.5	377.9	517.6	584.0
57.5°	81.8	92.7	113.1	153.0	221.8	319.9	431.0	487.2
60°	71.6	81.1	98.8	131.9	188.8	265.8	351.6	398.7
62.5°	64.1	70.9	86.2	113.8	158.1	219.1	287.6	320.3
65°	56.6	62.7	74.3	96.8	131.2	176.8	230.0	254.9
67.5°	48.0	54.5	63.4	81.8	107.0	141.4	181.6	198.3
70°	41.6	45.7	53.8	67.5	86.5	112.1	141.1	153.3
72.5°	35.4	38.2	44.6	54.5	68.1	87.2	108.0	116.5
75°	30.3	32.4	35.8	42.6	52.8	66.1	80.1	86.5
77.5°	25.9	26.6	28.6	32.7	38.8	48.4	57.9	62.0
80°	21.5	22.1	22.1	24.2	27.6	33.4	38.8	41.6
82.5°	17.7	17.7	17.7	17.7	18.7	21.5	23.9	25.2
85°	14.3	14.0	13.3	12.6	12.3	11.9	12.6	12.9
87.5°	11.9	11.2	9.9	8.5	7.2	5.8	4.8	4.8



TEST NUMBER: P273434

CATALOG NUMBER: 0.05-06W-840-30-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
90°	9.2	8.5	7.2	5.8	4.1	2.4	1.4	0.7
92.5°	7.2	6.1	4.8	3.4	2.0	0.7	0.0	0.0
95°	5.1	4.4	3.1	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°	2.4	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)