

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: P273433

Luminaire Tested: **0.05-06W-840-10-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P273433  
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-840-10-STD-UNV-AN-3F0  
Description: iO LIGHTING SERIES 2.0 LINEAR LED LUMINAIRE. 10 DEGREE OPTIC.  
HIGH OUTPUT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1266.7 lumens  
Efficiency: N/A  
Efficacy: 54.6 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

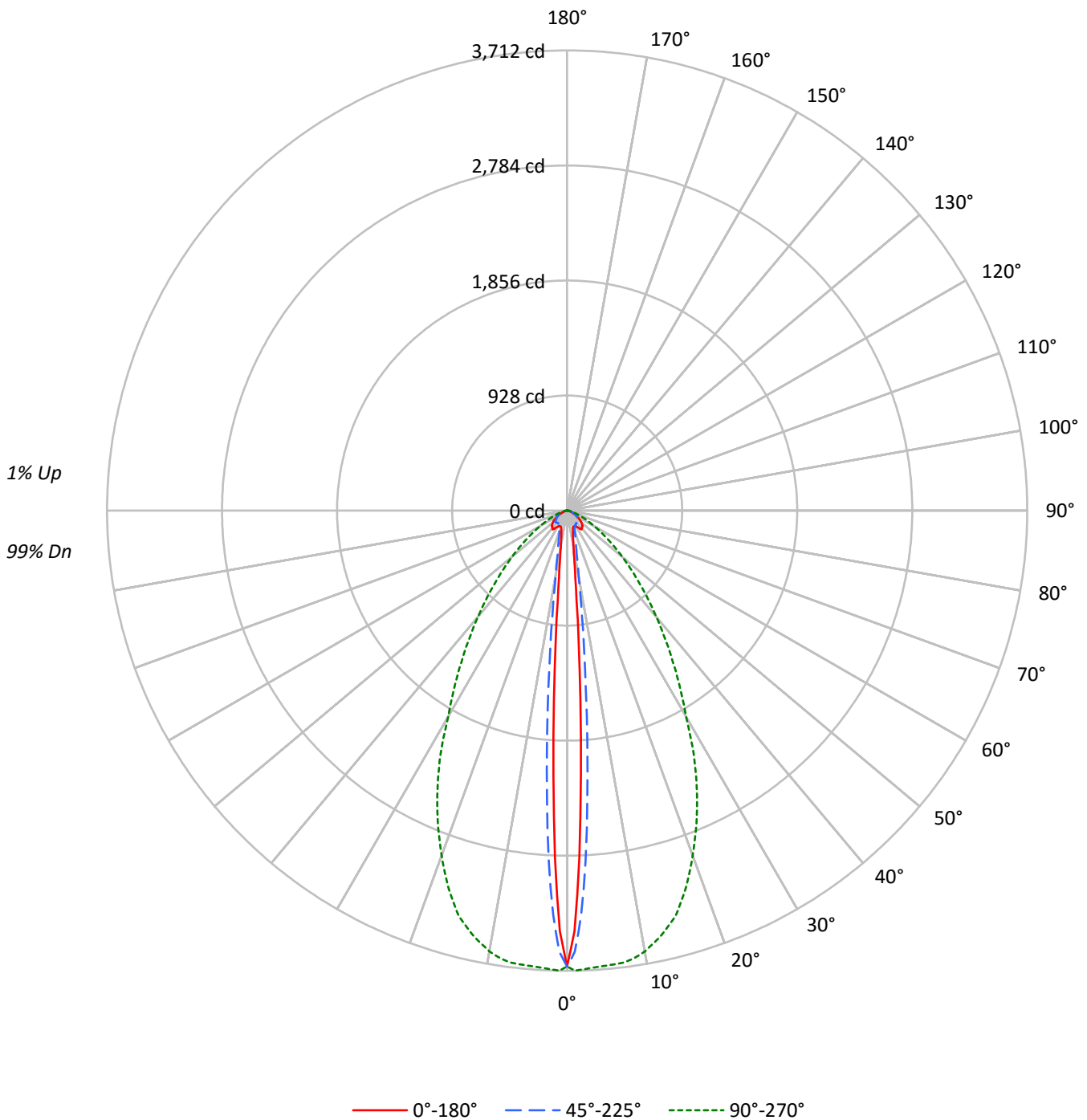
Input Watts (W): 23.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	65143	65143	65143
5°	18628	33126	65513
10°	5281	9593	64948
15°	3285	4878	62069
20°	2696	3440	55841
25°	2703	2856	48393
30°	3044	2731	39206
35°	3860	2740	32111
40°	4269	2930	25879
45°	4402	3344	20528
50°	4159	3277	15937
55°	3743	3261	12181
60°	2980	3100	9048
65°	2343	2884	6480
70°	1942	2595	4553
75°	1725	2307	3121
80°	1806	2193	2224
85°	2561	2764	1382



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.9	13.5
10°-20°	216.3	17.1
20°-30°	209.8	16.6
30°-40°	200.0	15.8
40°-50°	184.3	14.6
50°-60°	142.1	11.2
60°-70°	83.9	6.6
70°-80°	38.5	3.0
80°-90°	14.3	1.1
90°-100°	4.9	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°	597.1	47.1
0°-40°	797.1	62.9
0°-60°	1123.5	88.7
0°-90°	1260.2	99.5
90°-120°	6.5	0.5
90°-150°	6.5	0.5
90°-180°	7.0	0.6
0°-180°	1266.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3677	3677	3677	3677	3677	
5°	1048	1256	1863	2947	3684	83
15°	179	193	266	860	3384	53
25°	138	137	146	344	2476	65
35°	178	154	127	236	1485	110
45°	176	160	134	221	819	132
55°	121	122	106	187	394	107
65°	56	61	69	109	155	57
75°	25	27	34	44	46	28
85°	13	13	14	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°	3677.4	3677.4	3677.4	3677.4	3677.4	3677.4	3677.4	3677.4	3677.4	3677.4	3677.4
1°	3393.7	3422.3	3377.4	3463.2	3430.2	3456.4	3501.3	3531.0	3556.5	3559.2	3587.2
2°	2800.5	2877.4	2814.1	2938.4	2927.1	2981.6	3062.4	3128.8	3194.5	3259.2	3313.3
3°	2130.6	2216.7	2200.4	2286.5	2304.6	2382.9	2493.9	2596.8	2706.5	2835.2	2930.6
4°	1522.0	1587.0	1607.5	1652.4	1719.5	1783.5	1902.4	2029.8	2172.8	2328.1	2491.9
5°	1047.6	1101.4	1116.7	1154.9	1221.3	1290.7	1400.1	1530.5	1684.8	1862.9	2050.5
6°	728.5	767.3	780.6	810.2	859.6	919.2	1009.8	1122.5	1265.5	1447.7	1641.5
7°	538.1	563.6	573.5	595.3	630.4	674.7	743.5	833.0	950.5	1113.6	1322.1
8°	425.7	434.2	441.4	457.7	483.3	514.6	565.3	632.8	724.0	859.2	1036.3
9°	344.0	351.8	357.3	369.5	388.2	411.4	449.5	501.0	570.8	663.8	801.7
10°	293.6	298.0	302.1	311.3	324.9	342.3	370.5	408.7	463.2	533.3	658.3
12.5°	219.3	218.6	222.0	227.8	236.7	246.6	261.6	282.7	311.6	350.1	420.3
15°	179.1	179.5	181.9	185.6	190.4	196.2	205.4	219.3	237.7	266.0	305.1
17.5°	154.6	155.0	156.3	158.7	162.1	167.2	174.0	182.5	195.5	214.9	241.8
20°	143.0	142.7	143.4	144.7	146.8	149.5	153.3	158.0	167.6	182.5	203.3
22.5°	138.6	138.6	138.6	138.3	138.6	139.3	141.7	145.4	150.5	159.4	174.4
25°	138.3	138.6	138.3	137.2	137.2	136.9	136.6	137.6	140.0	146.1	155.6
27.5°	141.3	141.0	140.0	138.3	136.9	135.9	135.2	134.9	135.2	137.6	144.1
30°	148.8	148.1	146.1	143.0	140.0	136.9	134.2	132.8	132.5	133.5	136.2
32.5°	160.1	159.0	156.7	151.6	147.5	142.0	137.2	132.1	129.4	129.4	131.1
35°	178.5	176.4	172.7	166.5	158.0	150.2	143.0	135.5	129.8	126.7	127.0
37.5°	191.7	191.1	189.4	183.6	175.4	164.5	151.9	140.3	132.5	125.7	122.9
40°	184.6	183.6	181.2	178.1	175.7	173.3	163.5	148.8	136.9	126.7	120.9
42.5°	178.8	178.1	175.7	170.6	167.2	163.5	160.1	155.6	142.7	129.8	120.9
45°	175.7	175.0	173.0	168.6	163.1	157.0	150.9	146.4	142.7	133.5	121.9
47.5°	162.1	161.8	161.1	160.1	158.0	154.6	146.1	138.3	131.8	130.1	123.6
50°	150.9	150.9	150.5	148.5	146.4	143.7	141.3	133.8	124.3	118.9	118.2
52.5°	138.3	138.3	138.3	137.6	136.2	133.2	130.1	126.3	119.9	110.7	106.9
55°	121.2	121.6	122.3	122.6	122.9	121.2	119.5	115.1	111.4	105.6	98.1
57.5°	102.5	102.9	104.2	105.2	106.6	107.3	107.6	105.6	101.5	97.1	92.0
60°	84.1	84.5	85.8	87.5	89.9	92.0	93.7	94.3	91.6	87.5	84.1
62.5°	68.5	68.5	70.2	71.5	73.9	76.3	79.4	81.1	80.7	78.7	75.3
65°	55.9	56.2	57.2	58.2	59.9	62.3	65.7	68.5	69.8	68.8	66.4
67.5°	45.6	46.0	46.7	47.7	48.7	50.7	53.5	56.9	58.9	59.3	58.2
70°	37.5	37.8	38.1	38.8	39.8	41.2	43.3	46.3	48.7	50.1	50.1
72.5°	31.0	31.0	31.3	32.0	32.7	33.7	35.4	37.1	39.5	41.5	42.2
75°	25.2	25.5	25.9	25.9	26.6	26.9	28.3	29.6	31.3	33.7	34.7
77.5°	21.1	21.1	21.1	21.1	21.8	22.1	22.8	23.8	25.2	26.9	28.3
80°	17.7	17.7	17.7	17.7	17.7	18.0	18.7	19.1	19.8	21.5	22.8
82.5°	15.0	15.0	15.0	15.0	15.0	15.3	15.3	15.7	16.3	17.0	18.0
85°	12.6	12.6	12.6	12.6	12.6	12.6	12.9	12.9	13.3	13.6	14.0
87.5°	10.6	10.6	10.6	10.6	10.6	10.6	10.9	10.9	10.9	10.9	11.2
90°	9.2	9.2	9.2	9.2	9.2	8.9	8.9	8.9	8.9	8.9	8.9
92.5°	7.8	7.8	7.8	7.8	7.8	7.5	7.5	7.2	7.2	7.2	7.2
95°	6.5	6.5	6.5	6.1	6.1	6.1	6.1	5.8	5.8	5.8	5.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
97.5°	5.1	5.1	5.1	5.1	5.1	5.1	4.8	4.8	4.4	4.4	3.7
100°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	3.7	3.4	3.1	3.1
102.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.7	2.7	2.4	1.7
105°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.0	2.0	1.4	1.0
107.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.4	1.0	0.7	0.0
110°	2.0	2.0	2.0	1.7	2.0	1.7	1.4	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°	3677.4	3677.4	3677.4	3677.4	3677.4	3677.4	3677.4	3677.4
1°	3576.3	3600.1	3616.1	3639.3	3643.7	3674.0	3699.2	3712.1
2°	3362.7	3439.4	3493.2	3557.2	3589.9	3644.7	3685.2	3703.3
3°	3056.9	3199.9	3308.9	3432.9	3512.2	3605.5	3667.9	3694.4
4°	2687.7	2900.9	3078.4	3271.8	3411.1	3556.8	3652.2	3688.3
5°	2299.5	2567.9	2813.4	3080.7	3290.2	3499.0	3635.2	3684.2
6°	1915.3	2225.9	2526.3	2863.5	3163.2	3429.5	3616.4	3680.1
7°	1572.0	1897.3	2234.8	2631.2	2991.2	3345.0	3589.2	3674.7
8°	1270.6	1591.8	1950.7	2390.8	2819.9	3246.9	3548.3	3661.1
9°	1025.4	1325.1	1689.9	2156.5	2638.0	3137.6	3503.4	3639.3
10°	826.9	1094.6	1450.1	1932.4	2458.5	3022.8	3448.2	3610.7
12.5°	520.0	695.4	979.5	1434.5	2033.5	2717.0	3287.1	3509.9
15°	366.1	476.4	677.7	1042.1	1634.7	2406.4	3101.5	3384.5
17.5°	283.3	356.9	490.8	775.1	1320.0	2119.0	2889.3	3187.7
20°	232.6	286.1	385.2	604.8	1077.2	1861.5	2651.3	2962.2
22.5°	197.9	238.7	317.1	493.8	898.4	1633.3	2416.3	2727.2
25°	172.0	205.4	268.7	419.9	779.2	1439.2	2164.6	2475.9
27.5°	156.0	180.5	235.7	368.8	699.2	1261.1	1912.9	2211.6
30°	144.7	164.8	208.8	332.0	638.6	1089.1	1632.3	1916.7
32.5°	136.6	151.2	190.7	308.6	602.1	954.6	1416.7	1694.6
35°	130.8	142.4	177.8	294.6	575.6	839.8	1236.9	1484.9
37.5°	126.0	135.9	168.2	288.1	549.0	732.9	1076.9	1293.5
40°	121.2	130.4	162.4	285.4	512.9	631.4	939.3	1119.1
42.5°	118.2	125.7	159.0	287.4	471.3	547.6	813.3	961.8
45°	116.8	121.2	155.6	287.1	424.0	471.3	698.8	819.4
47.5°	116.1	117.5	152.9	282.7	372.2	409.4	605.2	692.7
50°	115.1	115.5	152.2	269.0	321.8	353.2	516.6	578.3
52.5°	109.0	113.1	151.6	251.7	272.5	306.2	441.4	480.9
55°	97.7	108.6	150.5	224.4	229.9	264.3	371.2	394.4
57.5°	88.5	99.1	146.8	195.1	194.5	227.5	307.9	319.4
60°	81.7	89.9	136.6	166.2	162.8	193.8	249.3	255.4
62.5°	74.6	82.4	121.6	139.0	136.9	160.7	197.2	197.5
65°	66.1	75.3	104.6	113.4	115.1	133.8	155.3	154.6
67.5°	58.2	66.4	87.5	91.6	96.4	109.0	120.6	117.8
70°	50.4	56.5	70.8	73.9	79.0	87.5	90.9	87.9
72.5°	42.9	47.3	55.9	58.9	63.0	67.4	67.4	64.0
75°	36.1	38.5	42.9	45.6	49.0	50.4	48.4	45.6
77.5°	29.6	31.0	32.7	34.4	36.4	35.4	33.7	32.0
80°	24.2	24.9	24.9	25.5	25.5	24.5	22.1	21.8
82.5°	19.4	20.1	19.1	18.0	17.0	15.3	14.0	12.9
85°	15.3	15.3	14.3	12.6	10.6	8.9	7.5	6.8
87.5°	11.6	11.6	10.2	8.5	6.1	4.4	3.1	2.7
90°	8.9	8.9	7.2	5.4	3.4	1.7	0.7	0.0
92.5°	6.8	6.1	4.8	3.1	1.4	0.7	0.0	0.0
95°	5.1	4.4	2.7	1.4	0.7	0.0	0.0	0.0





TEST NUMBER: P273433

CATALOG NUMBER: 0.05-06W-840-10-STD-UNV-AN-3F0

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
97.5°	3.4	2.7	1.4	0.7	0.0	0.0	0.0	0.0
100°	2.0	1.4	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)