

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: P273425

Luminaire Tested: **0.05-06W-830-90SYM-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-246-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 0.05-06W-830-90SYM-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES 2.0 LINEAR LED LUMINAIRE. 90 DEGREE SYMMETRIC OPTIC.
HIGH OUTPUT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1385.9 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.29 / 1.43
Luminous Opening: Rectangular (W 2.92' x L: 0.17' x H: 0')
CIE Type: Direct

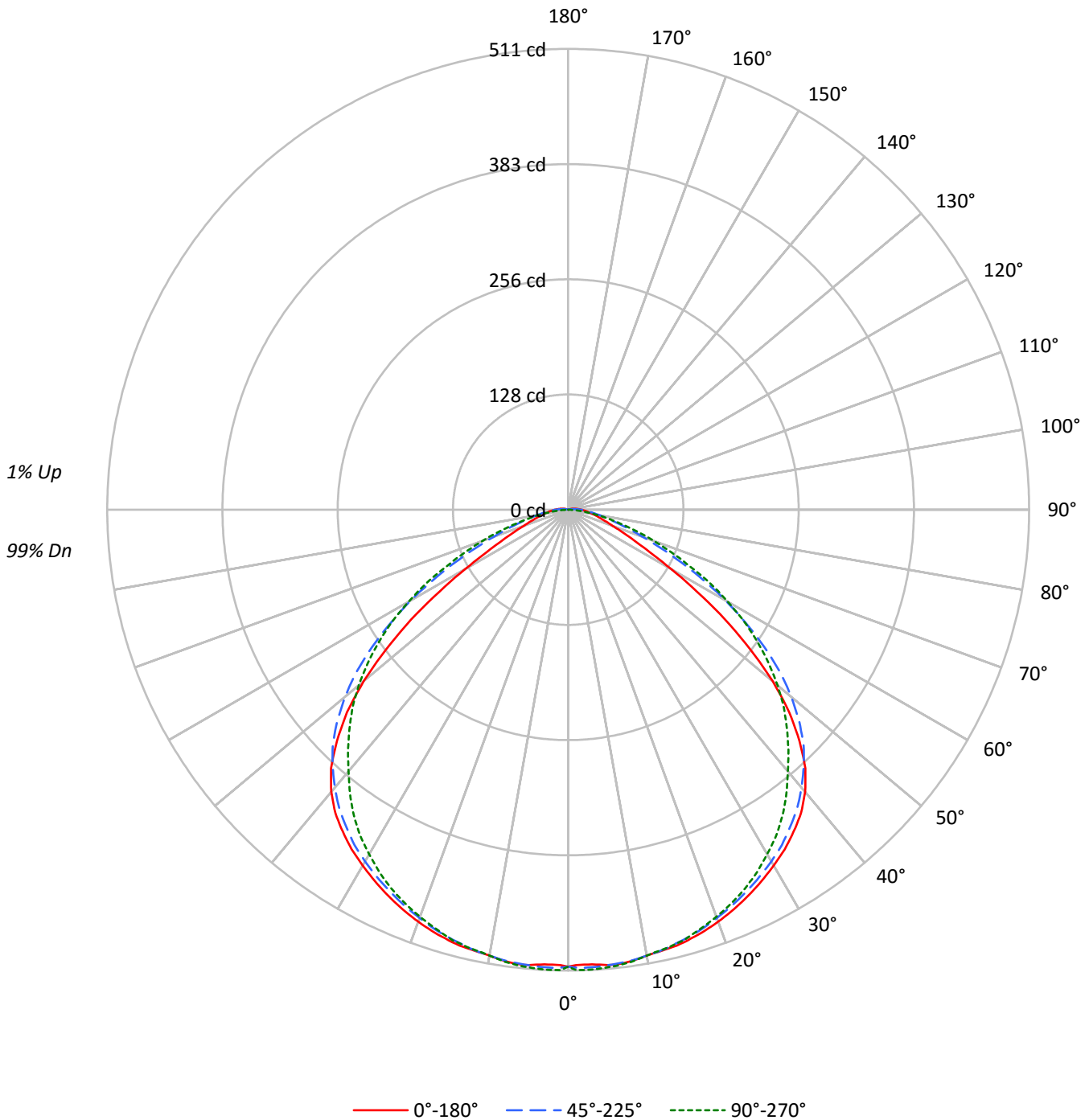
Input Watts (W): 23.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	81	98	90	85	80	87	82	78	84	79	76	80	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	57	66	61	56	64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	53	49	58	52	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11220	11220	11220
5°	11269	11269	11320
10°	11292	11292	11292
15°	11379	11320	11336
20°	11454	11355	11318
25°	11539	11415	11327
30°	11649	11516	11278
35°	11778	11602	11194
40°	11811	11634	10946
45°	11358	11558	10732
50°	10190	11120	10434
55°	8215	10238	9906
60°	5824	8928	9056
65°	4213	7225	7817
70°	3392	5704	6539
75°	3191	4705	5167
80°	3532	4463	3940
85°	5157	5640	2617



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	3.5
10°-20°	139.5	10.1
20°-30°	215.5	15.5
30°-40°	266.5	19.2
40°-50°	276.4	19.9
50°-60°	222.1	16.0
60°-70°	128.0	9.2
70°-80°	58.5	4.2
80°-90°	22.5	1.6
90°-100°	7.1	0.5
100°-110°	1.6	0.1
110°-120°	0.0	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°	403.1	29.1
0°-40°	669.6	48.3
0°-60°	1168.1	84.3
0°-90°	1377.1	99.4
90°-120°	8.7	0.6
90°-150°	8.7	0.6
90°-180°	9.0	0.6
0°-180°	1385.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	507	507	507	507	507	
5°	507	507	507	505	509	48
15°	496	496	494	491	494	140
25°	472	471	467	462	464	218
35°	436	433	429	417	414	272
45°	363	367	369	352	343	277
55°	213	232	265	267	257	189
65°	80	94	138	161	149	83
75°	37	40	55	70	60	41
85°	20	21	22	21	10	18
90°	14	14	14	9	0	8
95°	10	9	7	3	0	7
105°	4	3	1	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°	506.7	506.7	506.7	506.7	506.7	506.7	506.7	506.7	506.7	506.7	506.7
1°	505.1	504.8	503.8	504.1	506.4	508.3	509.0	508.6	509.0	508.0	507.7
2°	504.8	504.5	503.5	504.5	506.4	508.0	509.0	508.6	508.6	508.3	508.0
3°	504.8	504.8	503.5	504.8	506.4	507.7	508.3	508.3	508.3	508.0	507.7
4°	505.7	505.7	504.1	505.1	506.1	507.3	508.0	507.7	508.0	507.7	507.3
5°	507.0	506.1	504.5	505.1	506.4	507.0	507.7	507.0	507.3	507.0	507.0
6°	507.0	506.4	504.8	504.8	506.1	506.1	506.7	506.4	507.0	506.4	506.4
7°	506.4	505.7	504.1	504.5	505.1	505.7	506.4	506.1	506.1	505.7	505.4
8°	505.4	504.5	502.8	502.8	504.5	505.1	505.7	505.4	505.4	504.8	504.8
9°	503.8	502.8	500.9	501.2	502.8	503.8	504.5	504.5	504.1	503.5	503.5
10°	502.2	501.2	500.0	500.3	501.6	502.5	503.2	503.5	503.2	502.2	501.9
11°	500.9	500.3	498.7	499.0	500.9	501.6	501.9	502.2	501.9	500.9	500.9
12°	500.0	499.3	497.4	497.7	499.3	500.3	500.3	500.6	500.6	499.3	499.3
13°	499.0	498.0	496.4	496.7	497.7	499.3	499.3	499.3	499.3	497.7	498.0
14°	498.0	496.7	495.5	495.1	496.1	497.7	497.7	497.4	497.4	495.5	496.4
15°	496.4	495.8	494.5	494.5	495.5	496.1	496.1	496.1	495.5	493.8	495.1
17.5°	491.9	491.0	490.0	489.3	490.6	491.3	491.0	491.0	490.0	488.4	489.7
20°	486.1	485.2	484.2	483.6	484.2	484.5	484.5	484.2	483.2	481.9	482.6
22.5°	479.7	478.7	477.8	476.8	477.4	478.4	477.4	477.4	476.5	474.9	475.2
25°	472.3	471.7	470.7	469.7	470.7	471.0	470.1	470.1	469.1	467.2	467.2
27.5°	464.3	464.3	463.0	462.0	463.3	463.3	462.0	462.7	460.7	459.1	459.4
30°	455.6	455.6	454.3	453.3	454.0	454.3	453.0	453.0	451.7	450.4	449.8
32.5°	446.6	446.6	445.3	443.7	444.0	444.7	443.0	442.4	441.1	440.8	440.5
35°	435.7	435.7	434.4	432.8	433.1	433.1	431.8	430.8	429.9	429.2	428.3
37.5°	424.1	423.8	422.5	420.9	420.9	421.5	419.9	418.6	417.3	417.0	416.4
40°	408.6	408.6	407.4	406.4	406.4	406.7	405.8	404.8	403.5	402.5	401.6
42.5°	389.0	389.4	387.7	387.4	388.7	389.7	390.0	389.4	388.1	386.5	386.5
45°	362.7	364.0	363.0	363.3	365.6	367.8	368.8	369.7	369.7	369.1	367.8
47.5°	332.4	331.8	332.1	334.1	336.6	341.1	344.0	346.6	348.2	347.2	347.2
50°	295.8	296.1	296.4	300.0	303.2	309.6	314.8	318.3	321.2	322.8	322.5
52.5°	254.3	256.6	257.5	262.0	266.2	273.6	281.0	286.8	292.3	296.1	296.8
55°	212.8	212.5	216.1	221.2	227.6	236.0	245.0	252.1	259.8	265.2	269.1
57.5°	169.1	171.0	173.9	179.7	187.1	198.4	207.7	216.7	225.4	233.4	239.2
60°	131.5	132.5	135.7	140.5	147.6	157.9	170.7	181.3	190.7	201.6	208.3
62.5°	101.6	102.6	105.8	109.6	116.4	124.1	134.7	145.3	156.9	169.1	177.2
65°	80.4	80.4	82.3	85.5	90.3	97.4	105.8	115.4	126.4	137.9	146.9
67.5°	64.3	64.6	66.2	67.8	71.4	76.8	83.3	90.7	100.3	110.9	119.9
70°	52.4	53.0	54.0	55.0	57.2	61.1	65.6	71.4	78.8	88.1	96.8
72.5°	44.0	44.0	44.7	45.3	46.9	49.5	53.0	56.9	63.0	69.8	76.8
75°	37.3	37.6	37.6	38.3	39.5	41.2	43.4	46.0	49.8	55.0	60.8
77.5°	32.2	31.8	32.5	32.5	33.4	34.4	36.0	37.6	40.8	43.7	47.6
80°	27.7	27.3	27.7	27.7	28.3	28.9	29.6	30.9	33.1	35.0	37.3
82.5°	23.5	23.5	23.5	23.8	23.8	24.1	25.1	25.7	26.7	28.0	29.3
85°	20.3	20.3	20.3	20.3	20.6	20.6	20.6	21.2	21.5	22.2	22.8
87.5°	17.4	17.4	17.4	17.0	16.7	17.4	17.4	17.4	17.7	17.7	17.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
90°	14.5	14.8	14.1	14.1	14.1	14.1	14.1	13.8	13.8	13.8	13.2
92.5°	12.2	12.2	11.9	11.9	11.9	11.6	11.3	11.3	10.6	10.6	10.0
95°	10.0	10.0	10.0	9.6	9.3	9.3	9.0	8.7	8.0	7.4	6.8
97.5°	8.0	8.0	7.7	7.4	7.4	7.4	6.8	6.4	6.1	5.5	4.5
100°	6.1	6.1	6.1	6.1	5.8	5.5	5.1	4.8	4.2	3.5	2.9
102.5°	4.8	4.8	4.8	4.5	4.2	3.9	3.5	3.2	2.6	1.9	1.3
105°	3.5	3.5	3.5	3.2	2.9	2.6	2.3	1.9	1.6	1.0	0.3
107.5°	2.3	2.3	2.3	1.9	1.9	1.6	1.3	1.0	0.3	0.3	0.0
110°	1.3	1.3	1.3	1.0	1.0	1.0	0.3	0.3	0.0	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°	506.7	506.7	506.7	506.7	506.7	506.7	506.7	506.7
1°	505.4	504.5	505.1	504.8	506.4	509.6	510.2	510.6
2°	505.4	504.5	505.4	505.1	506.4	509.3	510.2	510.6
3°	505.1	504.8	505.4	505.1	506.1	509.0	510.2	510.6
4°	505.1	504.5	505.1	504.8	505.4	508.3	509.6	509.9
5°	504.8	504.1	504.8	504.5	504.8	508.0	509.0	509.3
6°	504.1	503.2	504.5	503.8	504.1	507.0	508.3	508.6
7°	503.5	502.2	503.5	503.2	503.2	505.7	507.0	507.3
8°	502.8	501.2	502.5	502.2	502.2	504.5	505.4	506.1
9°	501.6	499.3	501.2	500.9	500.9	502.8	503.8	504.1
10°	500.3	498.0	499.6	500.0	499.3	501.2	502.2	502.2
11°	499.0	496.4	498.3	498.3	498.0	500.0	500.9	500.3
12°	497.4	494.8	496.7	496.7	496.7	498.0	499.0	499.0
13°	495.5	493.5	495.1	494.8	495.1	496.7	497.7	497.7
14°	493.8	491.6	493.2	493.2	493.2	495.1	495.8	495.8
15°	492.2	490.0	491.0	491.3	491.6	493.5	494.2	494.5
17.5°	486.1	484.8	484.5	485.5	485.8	486.8	487.1	487.4
20°	480.0	477.8	478.1	478.1	478.4	480.3	480.0	480.3
22.5°	473.3	470.1	470.1	471.0	470.7	472.9	472.0	472.6
25°	465.2	462.0	461.1	462.7	462.3	463.9	463.6	463.6
27.5°	456.5	454.0	451.7	453.7	452.7	453.7	453.0	453.3
30°	447.9	443.4	442.1	442.7	441.8	442.7	441.8	441.1
32.5°	437.9	432.8	430.2	431.5	429.9	430.8	429.2	428.9
35°	426.3	421.5	417.3	417.0	416.0	415.4	414.4	414.1
37.5°	414.1	409.0	404.5	402.2	400.0	399.3	397.7	397.4
40°	399.6	394.5	388.4	386.1	382.9	382.0	379.4	378.7
42.5°	382.9	378.4	372.3	368.8	366.2	364.0	361.4	361.4
45°	364.9	359.8	353.7	350.8	348.2	345.9	343.1	342.7
47.5°	344.7	339.8	334.7	330.8	328.9	326.7	324.4	324.1
50°	321.8	318.3	314.4	310.6	308.0	305.1	302.5	302.9
52.5°	297.7	295.1	292.3	288.7	285.8	282.6	280.4	280.4
55°	271.4	270.7	268.5	265.2	262.0	258.8	256.6	256.6
57.5°	243.4	244.4	243.7	240.2	237.6	233.4	231.8	231.5
60°	214.4	217.3	217.3	214.4	211.9	207.7	205.4	204.5
62.5°	184.2	188.1	189.4	187.4	185.2	181.3	178.4	178.1
65°	154.3	159.1	161.7	160.1	157.5	153.0	150.5	149.2
67.5°	128.0	132.8	133.4	134.1	131.5	128.3	125.4	124.1
70°	104.2	108.4	110.3	110.0	108.0	104.8	101.9	101.0
72.5°	83.3	87.5	89.4	88.1	86.5	83.9	81.3	79.7
75°	65.9	68.8	70.4	69.1	67.2	64.3	63.0	60.4
77.5°	51.1	53.4	54.3	53.0	50.8	48.5	46.3	44.4
80°	39.9	41.2	41.5	39.2	37.0	34.7	32.2	30.9
82.5°	30.5	31.2	30.5	28.0	25.4	22.8	20.6	19.3
85°	23.5	23.1	21.9	19.3	16.4	13.8	11.3	10.3
87.5°	17.4	16.7	15.1	12.5	9.6	7.1	4.8	3.9



TEST NUMBER: P273425

CATALOG NUMBER: 0.05-06W-830-90SYM-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
90°	12.5	11.9	10.0	7.7	5.1	2.9	1.3	0.0
92.5°	9.0	7.7	6.1	4.2	2.3	0.6	0.0	0.0
95°	6.1	4.8	3.5	1.9	0.6	0.0	0.0	0.0
97.5°	3.5	2.6	1.6	0.3	0.0	0.0	0.0	0.0
100°	1.9	1.0	0.3	0.0	0.0	0.0	0.0	0.0
102.5°	1.0	0.3	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)