

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: P273419

Luminaire Tested: **0.05-06W-827-90SYM-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273419
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-827-90SYM-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES 2.0 LINEAR LED LUMINAIRE. 90 DEGREE SYMMETRIC OPTIC.
HIGH OUTPUT
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1295.8 lumens
Efficiency: N/A
Efficacy: 55.9 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

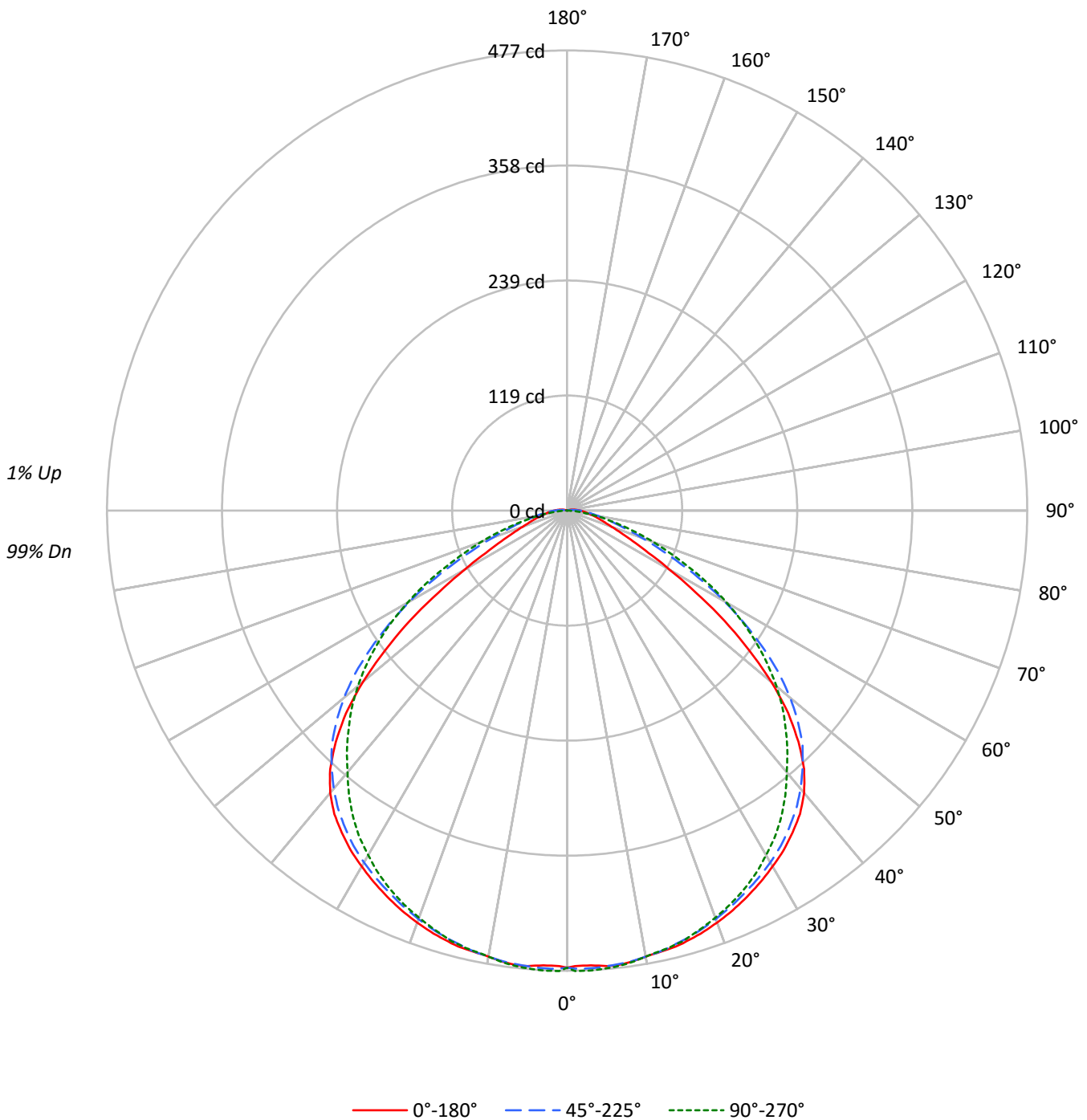
Input Watts (W): 23.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	10491	10491	10491
5°	10538	10538	10585
10°	10559	10559	10559
15°	10641	10584	10598
20°	10710	10618	10583
25°	10789	10672	10591
30°	10892	10769	10544
35°	11010	10848	10467
40°	11045	10880	10235
45°	10619	10807	10036
50°	9528	10396	9756
55°	7682	9574	9261
60°	5447	8348	8467
65°	3940	6759	7309
70°	3172	5335	6112
75°	2986	4397	4834
80°	3303	4183	3685
85°	4802	5259	2439



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.0	3.5
10°-20°	130.4	10.1
20°-30°	201.5	15.5
30°-40°	249.2	19.2
40°-50°	258.4	19.9
50°-60°	207.7	16.0
60°-70°	119.7	9.2
70°-80°	54.8	4.2
80°-90°	21.0	1.6
90°-100°	6.6	0.5
100°-110°	1.5	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°	376.9	29.1
0°-40°	626.1	48.3
0°-60°	1092.2	84.3
0°-90°	1287.6	99.4
90°-120°	8.1	0.6
90°-150°	8.1	0.6
90°-180°	8.0	0.6
0°-180°	1295.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	474	474	474	474	474	
5°	474	474	474	472	476	45
15°	464	464	462	459	462	131
25°	442	440	437	432	434	204
35°	407	405	401	390	387	255
45°	339	343	345	329	320	259
55°	199	217	248	250	240	177
65°	75	88	129	150	140	78
75°	35	38	51	65	56	38
85°	19	19	21	19	10	17
90°	14	13	13	8	0	7
95°	9	9	7	3	0	7
105°	3	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°	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8
1°	472.3	472.0	471.1	471.4	473.5	475.3	475.9	475.6	475.9	475.0	474.7
2°	472.0	471.7	470.8	471.7	473.5	475.0	475.9	475.6	475.6	475.3	475.0
3°	472.0	472.0	470.8	472.0	473.5	474.7	475.3	475.3	475.3	475.0	474.7
4°	472.9	472.9	471.4	472.3	473.2	474.4	475.0	474.7	475.0	474.7	474.4
5°	474.1	473.2	471.7	472.3	473.5	474.1	474.7	474.1	474.4	474.1	474.1
6°	474.1	473.5	472.0	472.0	473.2	473.2	473.8	473.5	474.1	473.5	473.5
7°	473.5	472.9	471.4	471.7	472.3	472.9	473.5	473.2	473.2	472.9	472.6
8°	472.6	471.7	470.2	470.2	471.7	472.3	472.9	472.6	472.6	472.0	472.0
9°	471.1	470.2	468.4	468.7	470.2	471.1	471.7	471.7	471.4	470.8	470.8
10°	469.6	468.7	467.5	467.8	469.0	469.9	470.5	470.8	470.5	469.6	469.3
11°	468.4	467.8	466.3	466.6	468.4	469.0	469.3	469.6	469.3	468.4	468.4
12°	467.5	466.9	465.1	465.4	466.9	467.8	467.8	468.1	468.1	466.9	466.9
13°	466.6	465.7	464.2	464.5	465.4	466.9	466.9	466.9	466.9	465.4	465.7
14°	465.7	464.5	463.2	462.9	463.8	465.4	465.4	465.1	465.1	463.2	464.2
15°	464.2	463.5	462.3	462.3	463.2	463.8	463.8	463.8	463.2	461.7	462.9
17.5°	459.9	459.0	458.1	457.5	458.7	459.3	459.0	459.0	458.1	456.6	457.8
20°	454.5	453.6	452.7	452.1	452.7	453.0	453.0	452.7	451.8	450.6	451.2
22.5°	448.5	447.6	446.7	445.8	446.4	447.3	446.4	446.4	445.5	444.0	444.3
25°	441.6	441.0	440.1	439.2	440.1	440.4	439.5	439.5	438.6	436.8	436.8
27.5°	434.1	434.1	432.9	432.0	433.2	433.2	432.0	432.6	430.8	429.3	429.6
30°	426.0	426.0	424.8	423.9	424.5	424.8	423.6	423.6	422.4	421.2	420.6
32.5°	417.6	417.6	416.4	414.8	415.2	415.8	414.2	413.6	412.4	412.1	411.8
35°	407.3	407.3	406.1	404.6	404.9	404.9	403.7	402.8	401.9	401.3	400.4
37.5°	396.5	396.2	395.0	393.5	393.5	394.1	392.6	391.4	390.2	389.9	389.3
40°	382.1	382.1	380.9	380.0	380.0	380.3	379.4	378.5	377.3	376.4	375.5
42.5°	363.7	364.0	362.5	362.2	363.4	364.3	364.6	364.0	362.8	361.3	361.3
45°	339.1	340.3	339.4	339.7	341.8	343.9	344.8	345.7	345.7	345.1	343.9
47.5°	310.8	310.2	310.5	312.3	314.7	319.0	321.7	324.1	325.6	324.7	324.7
50°	276.6	276.9	277.2	280.5	283.5	289.5	294.3	297.6	300.3	301.8	301.5
52.5°	237.8	239.9	240.8	245.0	248.9	255.8	262.7	268.1	273.3	276.9	277.5
55°	199.0	198.7	202.0	206.8	212.8	220.7	229.1	235.7	242.9	248.0	251.6
57.5°	158.1	159.9	162.6	168.0	175.0	185.5	194.2	202.6	210.7	218.2	223.7
60°	123.0	123.9	126.9	131.4	138.0	147.6	159.6	169.5	178.3	188.5	194.8
62.5°	95.0	95.9	98.9	102.5	108.8	116.0	126.0	135.9	146.7	158.1	165.6
65°	75.2	75.2	77.0	80.0	84.5	91.1	98.9	107.9	118.1	129.0	137.4
67.5°	60.1	60.4	61.9	63.4	66.7	71.8	77.9	84.8	93.8	103.7	112.1
70°	49.0	49.6	50.5	51.4	53.5	57.1	61.3	66.7	73.7	82.4	90.5
72.5°	41.2	41.2	41.8	42.4	43.9	46.3	49.6	53.2	58.9	65.2	71.8
75°	34.9	35.2	35.2	35.8	37.0	38.5	40.6	43.0	46.6	51.4	56.8
77.5°	30.1	29.8	30.4	30.4	31.3	32.2	33.7	35.2	38.2	40.9	44.5
80°	25.9	25.6	25.9	25.9	26.5	27.1	27.7	28.9	31.0	32.8	34.9
82.5°	21.9	21.9	21.9	22.2	22.2	22.5	23.4	24.0	25.0	26.2	27.4
85°	18.9	18.9	18.9	18.9	19.2	19.2	19.2	19.8	20.1	20.7	21.3
87.5°	16.2	16.2	16.2	15.9	15.6	16.2	16.2	16.2	16.5	16.5	16.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
90°	13.5	13.8	13.2	13.2	13.2	13.2	13.2	12.9	12.9	12.9	12.3
92.5°	11.4	11.4	11.1	11.1	11.1	10.8	10.5	10.5	9.9	9.9	9.3
95°	9.3	9.3	9.3	9.0	8.7	8.7	8.4	8.1	7.5	6.9	6.3
97.5°	7.5	7.5	7.2	6.9	6.9	6.9	6.3	6.0	5.7	5.1	4.2
100°	5.7	5.7	5.7	5.7	5.4	5.1	4.8	4.5	3.9	3.3	2.7
102.5°	4.5	4.5	4.5	4.2	3.9	3.6	3.3	3.0	2.4	1.8	1.2
105°	3.3	3.3	3.3	3.0	2.7	2.4	2.1	1.8	1.5	0.9	0.3
107.5°	2.1	2.1	2.1	1.8	1.8	1.5	1.2	0.9	0.3	0.3	0.0
110°	1.2	1.2	1.2	0.9	0.9	0.9	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°	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8
1°	472.6	471.7	472.3	472.0	473.5	476.5	477.1	477.4
2°	472.6	471.7	472.6	472.3	473.5	476.2	477.1	477.4
3°	472.3	472.0	472.6	472.3	473.2	475.9	477.1	477.4
4°	472.3	471.7	472.3	472.0	472.6	475.3	476.5	476.8
5°	472.0	471.4	472.0	471.7	472.0	475.0	475.9	476.2
6°	471.4	470.5	471.7	471.1	471.4	474.1	475.3	475.6
7°	470.8	469.6	470.8	470.5	470.5	472.9	474.1	474.4
8°	470.2	468.7	469.9	469.6	469.6	471.7	472.6	473.2
9°	469.0	466.9	468.7	468.4	468.4	470.2	471.1	471.4
10°	467.8	465.7	467.2	467.5	466.9	468.7	469.6	469.6
11°	466.6	464.2	466.0	466.0	465.7	467.5	468.4	467.8
12°	465.1	462.6	464.5	464.5	464.5	465.7	466.6	466.6
13°	463.2	461.4	462.9	462.6	462.9	464.5	465.4	465.4
14°	461.7	459.6	461.1	461.1	461.1	462.9	463.5	463.5
15°	460.2	458.1	459.0	459.3	459.6	461.4	462.0	462.3
17.5°	454.5	453.3	453.0	453.9	454.2	455.1	455.4	455.7
20°	448.8	446.7	447.0	447.0	447.3	449.1	448.8	449.1
22.5°	442.5	439.5	439.5	440.4	440.1	442.2	441.3	441.9
25°	435.0	432.0	431.1	432.6	432.3	433.8	433.5	433.5
27.5°	426.9	424.5	422.4	424.2	423.3	424.2	423.6	423.9
30°	418.8	414.5	413.3	413.9	413.0	413.9	413.0	412.4
32.5°	409.4	404.6	402.2	403.4	401.9	402.8	401.3	401.0
35°	398.6	394.1	390.2	389.9	389.0	388.4	387.5	387.2
37.5°	387.2	382.4	378.2	376.1	374.0	373.4	371.9	371.6
40°	373.7	368.9	363.1	361.0	358.0	357.1	354.7	354.1
42.5°	358.0	353.8	348.1	344.8	342.4	340.3	337.9	337.9
45°	341.2	336.4	330.7	328.0	325.6	323.5	320.8	320.5
47.5°	322.3	317.8	312.9	309.3	307.5	305.4	303.3	303.0
50°	300.9	297.6	294.0	290.4	288.0	285.3	282.9	283.2
52.5°	278.4	276.0	273.3	270.0	267.2	264.2	262.1	262.1
55°	253.7	253.1	251.0	248.0	245.0	242.0	239.9	239.9
57.5°	227.6	228.5	227.9	224.6	222.2	218.2	216.7	216.4
60°	200.5	203.2	203.2	200.5	198.1	194.2	192.1	191.2
62.5°	172.3	175.9	177.1	175.3	173.2	169.5	166.8	166.5
65°	144.3	148.8	151.2	149.7	147.3	143.1	140.7	139.5
67.5°	119.6	124.2	124.8	125.4	123.0	119.9	117.2	116.0
70°	97.4	101.3	103.1	102.8	101.0	98.0	95.3	94.4
72.5°	77.9	81.8	83.6	82.4	80.9	78.5	76.1	74.6
75°	61.6	64.3	65.8	64.6	62.8	60.1	58.9	56.5
77.5°	47.8	49.9	50.8	49.6	47.5	45.4	43.3	41.5
80°	37.3	38.5	38.8	36.7	34.6	32.5	30.1	28.9
82.5°	28.6	29.2	28.6	26.2	23.7	21.3	19.2	18.0
85°	21.9	21.6	20.4	18.0	15.3	12.9	10.5	9.6
87.5°	16.2	15.6	14.1	11.7	9.0	6.6	4.5	3.6



TEST NUMBER: P273419

CATALOG NUMBER: 0.05-06W-827-90SYM-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
90°	11.7	11.1	9.3	7.2	4.8	2.7	1.2	0.0
92.5°	8.4	7.2	5.7	3.9	2.1	0.6	0.0	0.0
95°	5.7	4.5	3.3	1.8	0.6	0.0	0.0	0.0
97.5°	3.3	2.4	1.5	0.3	0.0	0.0	0.0	0.0
100°	1.8	0.9	0.3	0.0	0.0	0.0	0.0	0.0
102.5°	0.9	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)