

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: P273429

Luminaire Tested: **0.05-06W-835-60-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (ITL89169-GONIOPHOTOMETRY)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 0.05-06W-835-60-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES 2.0 LINEAR LED LUMINAIRE. 60 DEGREE OPTIC.
HIGH OUTPUT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1170.5 lumens
Efficiency: N/A
Efficacy: 50.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.26
Luminous Opening: Rectangular w/ Sides (W: 2.92' x L: 0.16' x H: 0.03')
CIE Type: Direct

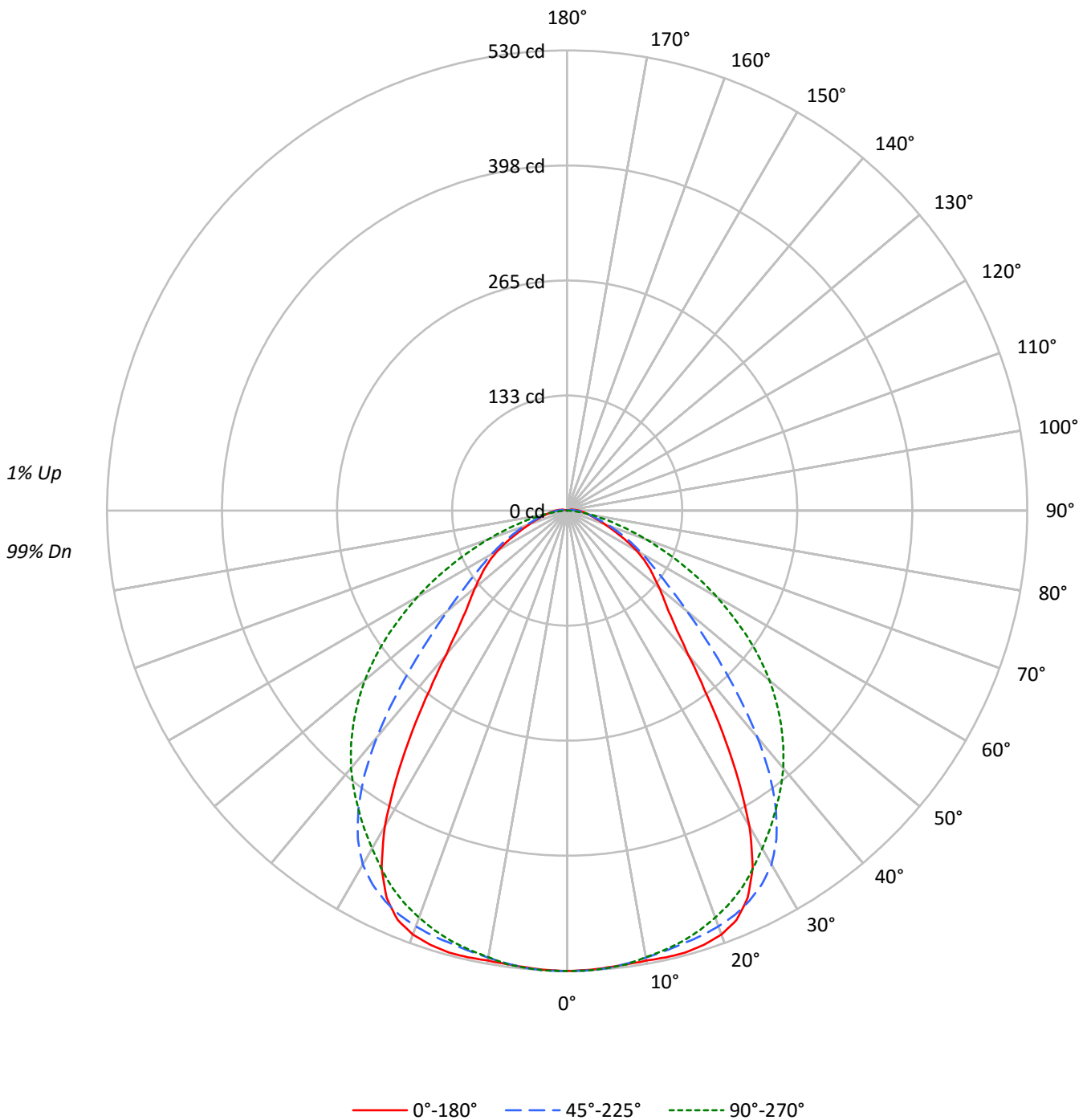
Input Watts (W): 23.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	101	101	99					99			
1	110	106	102	99	107	104	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74					74			
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	64					64			
4	86	75	68	62	84	74	67	61	72	65	60	69	64	59	67	62	59	56					56			
5	80	68	60	54	78	67	59	54	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	48	59	52	47	58	51	47	56	51	46	44					44			
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36					36			
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33					33			
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12121	12121	12121
5°	11953	12011	12128
10°	11878	11886	12103
15°	11954	11836	12125
20°	11938	11875	12096
25°	11545	11849	12010
30°	10141	11619	11800
35°	7815	10791	11627
40°	5695	9244	11467
45°	4618	7256	11162
50°	4128	5595	10707
55°	3747	4478	9975
60°	3298	3794	8972
65°	2660	3190	7700
70°	2135	2622	6282
75°	1808	2157	4854
80°	1657	1885	3433
85°	1669	1777	1904



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.3	4.3
10°-20°	146.4	12.5
20°-30°	224.0	19.1
30°-40°	242.0	20.7
40°-50°	201.3	17.2
50°-60°	148.6	12.7
60°-70°	90.1	7.7
70°-80°	43.1	3.7
80°-90°	17.3	1.5
90°-100°	6.0	0.5
100°-110°	1.4	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°	420.8	35.9
0°-40°	662.7	56.6
0°-60°	1012.7	86.5
0°-90°	1163.1	99.4
90°-120°	7.4	0.6
90°-150°	7.4	0.6
90°-180°	7.0	0.6
0°-180°	1170.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	530	530	530	530	530	
5°	528	529	529	529	529	50
15°	527	523	516	512	514	149
25°	492	495	496	482	478	223
35°	312	348	419	426	419	195
45°	166	181	252	345	348	131
55°	116	117	132	227	254	103
65°	66	68	74	111	145	66
75°	33	34	35	45	57	36
85°	18	18	16	13	8	16
90°	13	13	11	6	0	7
95°	9	9	6	2	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°	530.3	530.3	530.3	530.3	530.3	530.3	530.3	530.3	530.3	530.3	530.3
2.5°	529.7	529.7	529.7	529.7	529.7	529.7	529.9	530.1	530.2	530.3	530.3
5°	528.3	528.5	528.6	528.8	528.9	529.0	529.0	529.0	529.0	529.0	529.0
7.5°	527.0	527.0	527.0	527.0	527.0	526.9	526.8	526.6	526.5	526.3	526.3
10°	526.3	526.1	525.7	525.5	525.1	524.8	524.3	523.9	523.5	523.0	522.9
12.5°	527.0	526.4	525.8	525.2	524.6	523.8	522.8	521.7	520.7	519.6	519.2
15°	527.0	526.1	525.2	524.3	523.5	522.3	520.8	519.2	517.8	516.3	515.2
17.5°	524.3	523.6	522.9	522.1	521.4	520.2	518.5	516.9	515.2	513.6	511.8
20°	519.6	518.9	518.2	517.4	516.7	515.6	514.1	512.6	511.1	509.6	507.1
22.5°	510.3	509.8	509.4	508.9	508.5	507.8	506.9	506.1	505.1	504.3	501.3
25°	492.2	493.0	493.7	494.4	495.2	495.6	495.8	496.0	496.1	496.2	492.8
27.5°	462.8	465.2	467.5	470.0	472.3	474.8	477.5	480.2	482.9	485.5	482.0
30°	420.0	424.6	429.2	433.8	438.5	444.1	450.8	457.4	464.1	470.8	467.5
32.5°	366.5	373.2	379.9	386.6	393.2	402.4	414.0	425.5	437.2	448.8	447.1
35°	311.7	319.2	326.8	334.4	341.9	353.9	370.3	386.6	403.0	419.3	420.9
37.5°	259.5	266.4	273.5	280.4	287.4	301.2	321.7	342.2	362.7	383.2	389.4
40°	216.7	222.8	228.9	234.9	241.0	254.9	276.4	298.0	319.5	341.1	352.8
42.5°	187.3	191.4	195.6	199.8	203.9	215.9	235.9	255.7	275.7	295.6	312.9
45°	165.9	168.4	170.9	173.4	176.0	185.5	202.0	218.5	234.9	251.5	273.6
47.5°	151.1	152.5	153.8	155.2	156.5	163.2	175.4	187.7	199.8	212.0	237.3
50°	138.4	139.0	139.6	140.2	140.8	145.4	154.0	162.6	171.3	179.9	205.9
52.5°	126.4	126.9	127.3	127.7	128.2	131.1	136.6	142.2	147.7	153.2	178.0
55°	115.7	115.7	115.7	115.7	115.7	117.5	121.0	124.6	128.2	131.7	153.9
57.5°	104.3	104.2	104.1	103.9	103.7	104.9	107.2	109.6	112.0	114.4	133.0
60°	92.3	92.2	92.0	91.8	91.7	92.6	94.5	96.4	98.4	100.3	114.9
62.5°	78.9	79.0	79.2	79.4	79.5	80.4	82.1	83.7	85.3	86.9	98.1
65°	66.2	66.7	67.1	67.5	68.0	68.9	70.2	71.6	72.9	74.2	82.5
67.5°	54.8	55.3	55.7	56.2	56.6	57.4	58.7	59.8	61.0	62.2	68.4
70°	46.1	46.4	46.7	47.0	47.3	48.0	49.0	50.1	51.1	52.2	56.6
72.5°	38.8	38.9	39.1	39.3	39.4	39.9	40.6	41.3	42.1	42.8	46.1
75°	32.8	32.9	33.0	33.2	33.4	33.6	34.1	34.6	35.0	35.4	37.5
77.5°	28.1	28.2	28.4	28.6	28.7	28.8	29.0	29.2	29.3	29.4	30.5
80°	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.3
82.5°	20.7	20.7	20.7	20.7	20.7	20.7	20.5	20.3	20.2	20.1	19.8
85°	18.1	18.1	18.1	18.1	18.1	17.9	17.4	16.9	16.5	16.1	15.4
87.5°	15.4	15.4	15.4	15.4	15.4	15.2	14.7	14.2	13.8	13.4	12.5
90°	13.4	13.2	13.1	12.9	12.8	12.5	12.0	11.6	11.2	10.7	9.6
92.5°	11.4	11.2	11.1	10.9	10.8	10.4	9.8	9.2	8.6	8.0	7.0
95°	9.4	9.2	9.1	8.9	8.8	8.4	7.8	7.2	6.6	6.0	4.9
97.5°	7.4	7.2	7.1	6.9	6.8	6.4	5.8	5.2	4.6	4.0	3.3
100°	6.0	5.9	5.8	5.6	5.4	5.1	4.5	3.9	3.3	2.7	2.1
102.5°	4.7	4.5	4.4	4.2	4.1	3.7	3.1	2.5	1.9	1.3	1.1
105°	3.3	3.2	3.1	2.9	2.7	2.5	2.0	1.5	1.1	0.7	0.5
107.5°	2.0	1.9	1.7	1.5	1.4	1.2	0.9	0.6	0.3	0.0	0.0
110°	1.3	1.2	1.1	0.9	0.7	0.6	0.5	0.3	0.1	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.7	0.5	0.4	0.2	0.1	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°	530.3	530.3	530.3	530.3	530.3	530.3	530.3	530.3
2.5°	530.3	530.3	530.3	530.3	530.3	530.3	530.3	530.3
5°	529.0	529.0	529.0	529.0	529.0	529.0	529.0	529.0
7.5°	526.3	526.3	526.3	526.4	526.5	526.7	526.9	527.0
10°	522.7	522.5	522.4	522.3	522.3	522.3	522.3	522.3
12.5°	518.8	518.3	517.8	517.7	517.8	518.0	518.2	518.3
15°	514.2	513.2	512.2	511.8	512.3	512.8	513.2	513.6
17.5°	510.1	508.3	506.5	505.7	506.1	506.3	506.7	506.9
20°	504.5	502.1	499.5	498.3	498.4	498.6	498.8	498.9
22.5°	498.3	495.4	492.4	490.8	490.4	490.1	489.8	489.5
25°	489.4	486.0	482.6	480.6	480.0	479.4	478.8	478.2
27.5°	478.4	474.8	471.3	468.9	467.7	466.5	465.3	464.1
30°	464.3	461.0	457.7	455.4	453.9	452.4	450.9	449.4
32.5°	445.5	443.9	442.2	440.7	439.2	437.7	436.2	434.7
35°	422.6	424.2	425.9	425.9	424.2	422.6	420.9	419.3
37.5°	395.7	401.9	408.2	410.5	408.8	407.2	405.5	403.9
40°	364.6	376.3	388.0	393.2	391.7	390.2	388.7	387.2
42.5°	330.1	347.3	364.6	372.6	371.6	370.6	369.6	368.5
45°	295.7	317.9	340.0	350.8	350.2	349.6	349.0	348.4
47.5°	262.6	287.8	313.1	325.8	326.2	326.4	326.8	327.0
50°	231.9	257.9	284.0	297.7	299.4	301.0	302.7	304.3
52.5°	202.8	227.6	252.4	266.4	269.7	273.0	276.3	279.6
55°	176.0	198.2	220.3	233.9	238.8	243.6	248.6	253.5
57.5°	151.5	170.1	188.7	201.0	207.1	213.2	219.3	225.4
60°	129.5	144.0	158.6	169.6	177.0	184.4	191.9	199.3
62.5°	109.2	120.4	131.5	141.0	148.7	156.4	164.1	171.9
65°	90.9	99.2	107.5	115.4	122.9	130.3	137.7	145.1
67.5°	74.7	80.9	87.1	93.6	100.1	106.6	113.2	119.7
70°	61.1	65.5	70.0	74.9	80.3	85.6	91.0	96.3
72.5°	49.4	52.6	55.9	59.5	63.3	67.1	71.0	74.9
75°	39.6	41.7	43.7	46.1	48.8	51.5	54.2	56.8
77.5°	31.5	32.6	33.6	34.8	36.3	37.9	39.3	40.8
80°	24.7	24.9	25.3	25.6	26.1	26.6	27.0	27.4
82.5°	19.5	19.2	18.9	18.5	18.1	17.6	17.2	16.7
85°	14.8	14.2	13.6	12.8	11.6	10.4	9.2	8.0
87.5°	11.6	10.7	9.8	8.6	7.2	5.6	4.1	2.7
90°	8.6	7.6	6.6	5.4	4.0	2.7	1.3	0.0
92.5°	6.0	4.9	3.9	2.9	2.2	1.5	0.7	0.0
95°	3.9	2.9	1.9	1.2	0.9	0.6	0.3	0.0
97.5°	2.5	1.8	1.1	0.6	0.5	0.3	0.1	0.0
100°	1.5	0.9	0.3	0.0	0.0	0.0	0.0	0.0
102.5°	0.7	0.5	0.1	0.0	0.0	0.0	0.0	0.0
105°	0.4	0.2	0.1	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
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)