

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: P273423

Luminaire Tested: **0.05-06W-830-60-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273423
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-830-60-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES 2.0 LINEAR LED LUMINAIRE. 60 DEGREE OPTIC.
HIGH OUTPUT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1125.5 lumens
Efficiency: N/A
Efficacy: 48.5 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

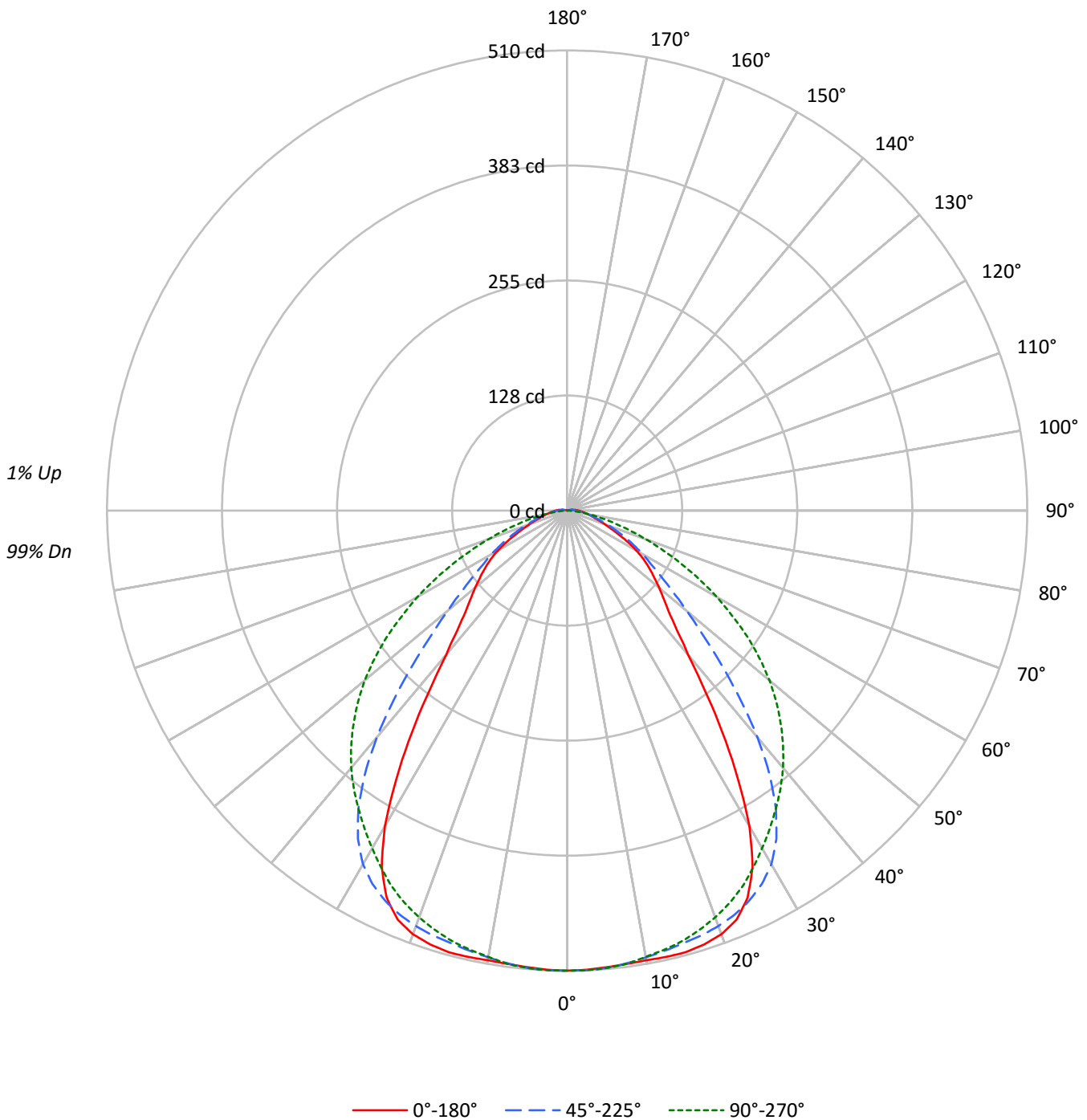
Input Watts (W): 23.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11655	11655	11655
5°	11494	11550	11663
10°	11422	11430	11638
15°	11494	11380	11660
20°	11481	11419	11631
25°	11102	11393	11548
30°	9750	11172	11346
35°	7514	10376	11181
40°	5477	8889	11026
45°	4440	6976	10733
50°	3970	5380	10295
55°	3602	4308	9589
60°	3169	3650	8626
65°	2560	3069	7403
70°	2056	2521	6040
75°	1737	2078	4675
80°	1595	1815	3308
85°	1605	1700	1832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	4.3
10°-20°	140.8	12.5
20°-30°	215.4	19.1
30°-40°	232.7	20.7
40°-50°	193.6	17.2
50°-60°	142.9	12.7
60°-70°	86.6	7.7
70°-80°	41.4	3.7
80°-90°	16.6	1.5
90°-100°	5.7	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°	404.6	35.9
0°-40°	637.2	56.6
0°-60°	973.7	86.5
0°-90°	1118.3	99.4
90°-120°	7.2	0.6
90°-150°	7.2	0.6
90°-180°	7.0	0.6
0°-180°	1125.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	508	509	509	509	509	48
15°	507	503	496	492	494	143
25°	473	476	477	463	460	214
35°	300	335	403	410	403	187
45°	160	174	242	332	335	126
55°	111	112	127	218	244	99
65°	64	66	71	107	140	64
75°	32	32	34	43	55	34
85°	17	17	15	13	8	15
90°	13	12	10	6	0	7
95°	9	8	6	2	0	7
105°	3	2	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°	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9
2.5°	509.3	509.3	509.3	509.3	509.3	509.4	509.5	509.7	509.8	509.9	509.9
5°	508.0	508.1	508.3	508.5	508.6	508.7	508.7	508.7	508.7	508.7	508.7
7.5°	506.7	506.7	506.7	506.7	506.7	506.7	506.5	506.3	506.2	506.1	506.1
10°	506.1	505.8	505.5	505.3	504.9	504.6	504.2	503.7	503.3	502.9	502.7
12.5°	506.7	506.2	505.6	505.0	504.4	503.6	502.7	501.6	500.7	499.7	499.2
15°	506.7	505.9	505.0	504.2	503.3	502.2	500.7	499.3	497.9	496.4	495.4
17.5°	504.2	503.5	502.7	502.0	501.3	500.2	498.6	497.0	495.4	493.9	492.1
20°	499.7	498.9	498.2	497.5	496.8	495.7	494.3	492.8	491.4	490.0	487.6
22.5°	490.7	490.2	489.8	489.4	488.9	488.3	487.4	486.6	485.7	484.9	482.0
25°	473.3	474.0	474.7	475.4	476.1	476.6	476.7	476.9	477.0	477.1	473.9
27.5°	445.0	447.3	449.6	451.9	454.1	456.6	459.1	461.7	464.3	466.9	463.5
30°	403.8	408.3	412.7	417.2	421.6	427.0	433.4	439.9	446.3	452.7	449.6
32.5°	352.4	358.8	365.3	371.7	378.1	386.9	398.1	409.2	420.4	431.5	429.9
35°	299.7	306.9	314.3	321.5	328.8	340.3	356.1	371.8	387.5	403.2	404.7
37.5°	249.5	256.2	262.9	269.6	276.4	289.6	309.3	329.1	348.7	368.5	374.5
40°	208.4	214.2	220.1	225.9	231.8	245.1	265.8	286.5	307.3	328.0	339.3
42.5°	180.1	184.0	188.0	192.1	196.1	207.6	226.8	245.9	265.1	284.2	300.8
45°	159.5	161.9	164.4	166.7	169.2	178.3	194.2	210.1	225.9	241.8	263.1
47.5°	145.3	146.6	147.9	149.2	150.5	157.0	168.7	180.4	192.1	203.8	228.2
50°	133.1	133.7	134.3	134.8	135.4	139.8	148.1	156.4	164.7	173.0	198.0
52.5°	121.5	122.0	122.4	122.8	123.3	126.1	131.4	136.7	142.0	147.3	171.1
55°	111.2	111.2	111.2	111.2	111.2	113.0	116.4	119.8	123.3	126.7	148.0
57.5°	100.3	100.2	100.1	99.9	99.7	100.8	103.1	105.4	107.6	110.0	127.8
60°	88.7	88.6	88.5	88.3	88.2	89.0	90.9	92.7	94.6	96.5	110.5
62.5°	75.9	76.0	76.1	76.3	76.5	77.3	78.9	80.4	82.1	83.6	94.3
65°	63.7	64.1	64.5	64.9	65.4	66.2	67.5	68.8	70.1	71.4	79.4
67.5°	52.7	53.2	53.6	54.0	54.5	55.2	56.4	57.5	58.6	59.8	65.8
70°	44.4	44.6	44.9	45.2	45.5	46.2	47.1	48.2	49.1	50.2	54.5
72.5°	37.3	37.4	37.6	37.7	37.9	38.3	39.0	39.7	40.4	41.2	44.3
75°	31.5	31.6	31.8	32.0	32.1	32.3	32.8	33.2	33.6	34.1	36.1
77.5°	27.0	27.1	27.3	27.5	27.6	27.7	27.8	28.0	28.2	28.3	29.3
80°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.4
82.5°	19.9	19.9	19.9	19.9	19.9	19.9	19.7	19.5	19.4	19.3	19.0
85°	17.4	17.4	17.4	17.4	17.4	17.2	16.7	16.3	15.9	15.4	14.9
87.5°	14.8	14.8	14.8	14.8	14.8	14.6	14.1	13.7	13.3	12.9	12.0
90°	12.9	12.7	12.6	12.4	12.3	12.0	11.6	11.1	10.7	10.3	9.3
92.5°	10.9	10.8	10.7	10.5	10.4	10.0	9.5	8.9	8.3	7.7	6.7
95°	9.0	8.9	8.7	8.6	8.4	8.1	7.5	6.9	6.4	5.8	4.8
97.5°	7.1	6.9	6.8	6.6	6.5	6.2	5.6	5.0	4.4	3.9	3.2
100°	5.8	5.7	5.5	5.3	5.2	4.9	4.3	3.7	3.2	2.6	2.0
102.5°	4.5	4.4	4.2	4.1	3.9	3.6	3.0	2.4	1.9	1.3	1.0
105°	3.2	3.1	3.0	2.8	2.6	2.4	1.9	1.5	1.1	0.6	0.5
107.5°	1.9	1.8	1.7	1.5	1.4	1.2	0.8	0.6	0.3	0.0	0.0
110°	1.3	1.2	1.0	0.8	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°	0.6	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°	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9
2.5°	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9
5°	508.7	508.7	508.7	508.7	508.7	508.7	508.7	508.7
7.5°	506.1	506.1	506.1	506.2	506.3	506.5	506.6	506.7
10°	502.6	502.4	502.3	502.2	502.2	502.2	502.2	502.2
12.5°	498.8	498.4	497.9	497.8	497.9	498.1	498.2	498.4
15°	494.4	493.4	492.5	492.1	492.6	493.0	493.4	493.9
17.5°	490.5	488.7	487.0	486.3	486.6	486.9	487.2	487.4
20°	485.1	482.7	480.3	479.1	479.3	479.5	479.6	479.7
22.5°	479.1	476.3	473.4	471.9	471.6	471.3	471.0	470.7
25°	470.6	467.3	464.0	462.1	461.5	460.9	460.4	459.8
27.5°	460.0	456.6	453.2	450.8	449.7	448.6	447.4	446.3
30°	446.4	443.3	440.1	437.9	436.4	435.0	433.5	432.1
32.5°	428.3	426.8	425.2	423.7	422.3	420.8	419.4	418.0
35°	406.3	407.9	409.5	409.5	407.9	406.3	404.7	403.2
37.5°	380.5	386.5	392.5	394.7	393.1	391.6	390.0	388.4
40°	350.5	361.8	373.1	378.1	376.6	375.2	373.7	372.3
42.5°	317.4	333.9	350.5	358.3	357.3	356.3	355.4	354.3
45°	284.4	305.6	326.9	337.3	336.8	336.2	335.6	335.0
47.5°	252.5	276.7	301.0	313.3	313.6	313.9	314.2	314.5
50°	223.0	248.0	273.0	286.3	287.9	289.4	291.0	292.6
52.5°	195.0	218.8	242.7	256.2	259.3	262.5	265.6	268.8
55°	169.3	190.5	211.8	224.9	229.6	234.3	239.0	243.7
57.5°	145.7	163.5	181.4	193.3	199.2	205.0	210.9	216.7
60°	124.5	138.5	152.5	163.1	170.2	177.4	184.5	191.6
62.5°	105.0	115.8	126.5	135.6	143.0	150.4	157.8	165.3
65°	87.4	95.4	103.4	111.0	118.1	125.3	132.4	139.5
67.5°	71.8	77.8	83.8	90.0	96.3	102.5	108.8	115.1
70°	58.7	63.0	67.3	72.0	77.2	82.3	87.5	92.6
72.5°	47.5	50.6	53.8	57.2	60.9	64.6	68.3	72.0
75°	38.1	40.1	42.1	44.4	46.9	49.5	52.1	54.7
77.5°	30.3	31.3	32.3	33.5	34.9	36.4	37.8	39.2
80°	23.7	24.0	24.3	24.6	25.1	25.5	25.9	26.4
82.5°	18.7	18.5	18.1	17.8	17.4	16.9	16.5	16.1
85°	14.3	13.7	13.1	12.3	11.1	10.0	8.9	7.7
87.5°	11.1	10.3	9.5	8.3	6.9	5.4	4.0	2.6
90°	8.3	7.3	6.3	5.1	3.9	2.6	1.3	0.0
92.5°	5.7	4.7	3.7	2.8	2.1	1.4	0.7	0.0
95°	3.8	2.8	1.8	1.2	0.8	0.6	0.3	0.0
97.5°	2.4	1.7	1.0	0.6	0.5	0.3	0.1	0.0
100°	1.4	0.8	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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CATALOG NUMBER: 0.05-06W-830-60-STD-UNV-AN-3F0

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)