

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: iO LED

Report Number: P869254

Luminaire Tested: SEL25 UPDATED OPTIC

Issue Date: 8/27/2024

Test Information

Test Method: LM-79-2019
Report Number: P869254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (SEL25-_IESNA95 ns)
Test Lab: EVERFINE
Issue Date: 8/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: iO LED
Catalog Number: SEL25 UPDATED OPTIC
Description: WHITE EMERGENCY LIGHT SINGLE HEAD
Light Source: HIGH LUMEN LED
Ballast/Driver: -

Summary

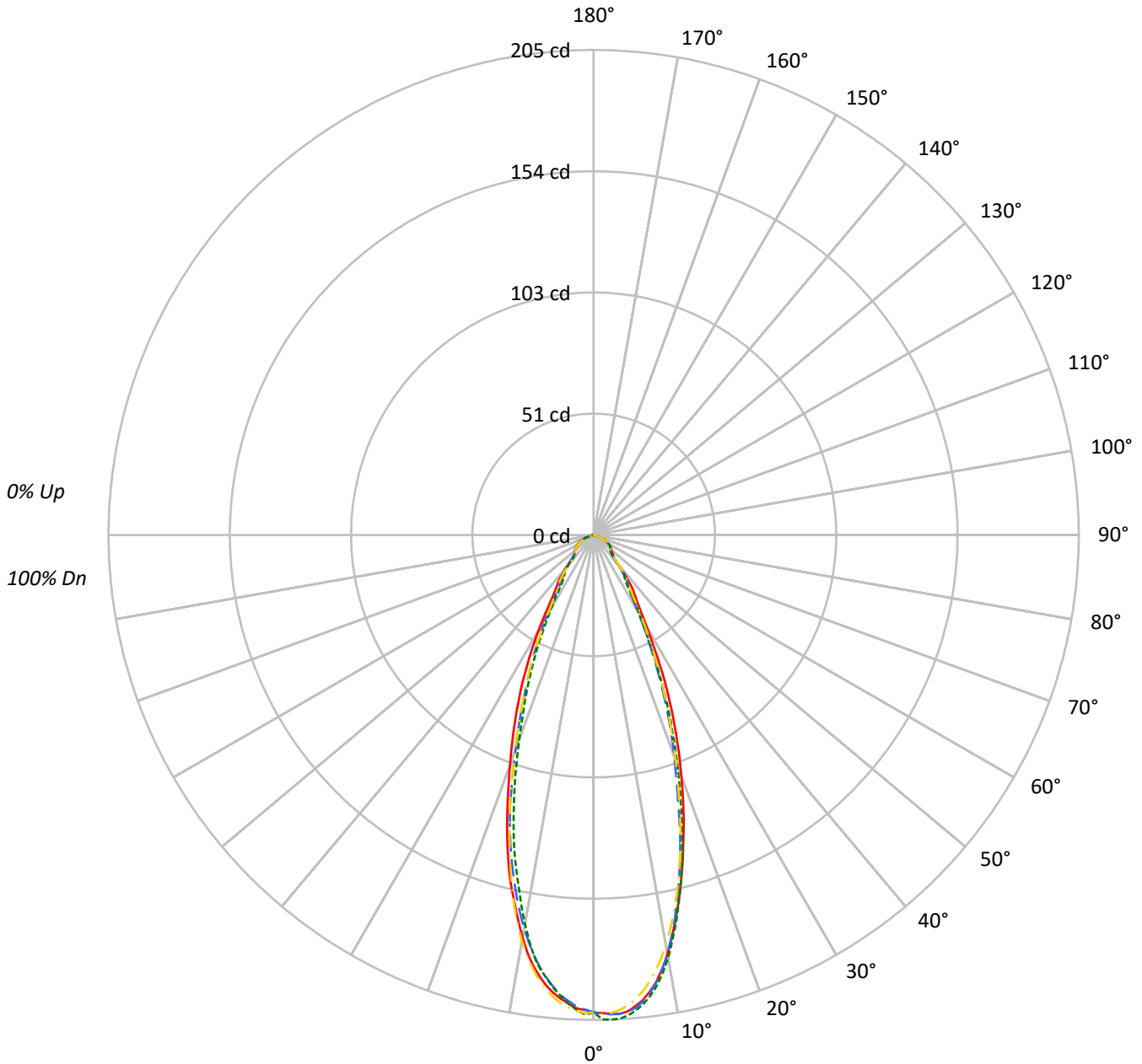
Lumens per Lamp: N/A
Luminaire Lumens: 125.0 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 0.66 / 0.63 / 0.65
Luminous Opening: (L: 0 ' x W: -0.25 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 1.1
Input Voltage (V): NR
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: 24 FT



TEST NUMBER: P869254
CATALOG NUMBER: SEL25 UPDATED OPTIC

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	100																			
1	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93																			
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79																			
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73																			
5	91	82	76	72	89	81	76	71	80	75	71	78	74	70	76	73	70	68																			
6	87	77	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64																			
7	82	73	67	63	81	72	66	62	71	66	62	70	65	62	69	65	61	60																			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57																			
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54																			
10	72	62	57	53	71	62	56	53	61	56	52	60	56	52	60	55	52	51																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	Luminous shape not found, reference photometric report, or contact the photometric lab for calculations.			
5°				
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: -
 Vertical Angle: -
 Luminance: -



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.1	14.5
10°-20°	38.1	30.4
20°-30°	30.4	24.3
30°-40°	16.3	13.0
40°-50°	8.9	7.1
50°-60°	7.7	6.2
60°-70°	5.0	4.0
70°-80°	0.5	0.4
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
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°	86.6	69.3
0°-40°	102.9	82.3
0°-60°	119.5	95.6
0°-90°	125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	125.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	202	202	202	202	202	
5°	200	202	194	192	200	18
15°	145	144	140	131	145	40
25°	74	67	73	62	74	34
35°	30	23	28	22	30	18
45°	11	10	11	11	11	9
55°	9	8	9	9	9	8
65°	5	5	6	6	5	5
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P869254

CATALOG NUMBER: SEL25 UPDATED OPTIC

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	201.8	201.8	201.8	201.8	201.8	201.8	201.8	201.8	201.8	201.8	201.8
1°	202.2	202.4	202.4	204.8	203.1	202.1	200.9	200.7	200.7	202.9	202.4
2°	202.5	202.8	202.8	205.0	203.0	201.4	200.3	199.7	199.3	201.1	201.0
3°	202.8	203.1	202.6	204.8	202.3	200.2	198.6	197.9	197.2	198.6	199.3
4°	202.1	202.6	201.9	203.8	200.8	198.5	196.7	195.9	194.6	195.7	197.4
5°	200.1	201.1	200.5	202.0	198.8	196.0	194.4	193.1	191.3	192.5	194.7
6°	197.8	198.7	198.3	199.6	195.9	193.0	191.5	189.7	187.4	188.7	191.5
7°	194.6	195.5	194.9	196.3	192.1	189.4	188.0	185.6	183.4	184.9	187.8
8°	190.7	191.4	190.4	192.3	187.6	185.3	183.9	180.9	178.9	180.2	183.4
9°	185.6	186.1	185.4	187.3	182.7	180.3	178.8	175.7	173.7	173.9	178.3
10°	179.8	180.0	179.5	181.4	177.3	174.4	172.7	170.0	168.0	167.0	172.8
11°	173.3	172.9	172.7	174.5	171.1	168.2	166.5	164.1	161.5	159.9	165.7
12°	166.3	165.4	165.0	167.4	164.4	161.4	160.0	157.8	154.8	152.3	158.6
13°	159.4	157.7	157.1	159.7	157.3	154.3	153.7	151.2	147.9	145.4	150.8
14°	152.1	149.4	149.2	152.2	150.1	147.2	147.2	144.6	141.0	138.2	142.8
15°	144.9	140.9	141.4	144.5	142.4	139.7	140.0	137.6	134.1	130.7	134.3
16°	137.4	132.2	132.9	136.2	134.8	131.9	132.6	130.0	127.1	122.5	125.9
17°	130.0	123.6	123.5	127.3	126.7	123.7	124.9	122.2	119.3	114.7	117.3
18°	122.7	115.2	114.2	119.0	118.2	115.6	117.4	114.1	110.8	107.0	109.1
19°	115.4	107.7	105.9	111.2	110.3	107.4	110.1	106.2	102.1	99.2	101.1
20°	108.2	100.1	98.3	103.3	102.3	100.0	103.2	98.7	94.5	91.8	93.7
21°	101.3	94.5	90.6	95.6	94.9	92.7	96.8	91.6	87.2	84.8	86.4
22°	94.4	88.0	82.9	88.3	87.4	86.0	90.8	84.9	80.1	78.7	79.5
23°	87.6	81.2	75.7	81.1	80.1	79.8	84.8	78.7	73.5	72.8	73.3
24°	80.8	74.2	68.7	74.0	73.2	73.8	79.0	72.7	67.7	67.1	67.4
25°	74.3	67.5	62.0	66.9	66.6	68.2	73.2	67.0	62.3	61.5	61.6
26°	68.0	60.9	55.9	60.2	60.4	62.7	67.7	61.4	56.9	55.9	56.1
27°	61.5	54.8	50.0	54.0	54.5	57.4	62.0	56.1	51.6	50.5	50.6
28°	55.4	49.1	44.8	48.1	49.0	52.3	56.7	51.1	46.6	45.1	45.4
29°	49.7	44.0	39.9	42.9	44.0	47.4	51.4	46.4	41.8	40.4	40.7
30°	44.8	39.5	35.6	38.1	39.5	42.7	46.4	41.9	37.5	35.9	36.3
31°	40.4	35.5	31.7	33.9	35.5	38.3	41.7	37.5	33.6	31.9	32.6
32°	36.7	32.3	28.4	30.4	32.1	34.5	37.1	33.6	30.1	28.3	29.5
33°	33.9	29.7	25.8	27.4	29.3	31.3	33.3	30.3	26.9	25.4	26.7
34°	31.7	28.0	23.9	24.9	26.9	28.6	30.3	27.3	24.4	23.3	24.9
35°	29.5	26.8	23.1	23.3	25.2	26.7	27.9	25.2	22.5	21.9	23.7
36°	27.6	25.4	22.5	22.2	24.1	25.1	26.1	23.6	21.1	21.0	22.9
37°	24.6	22.4	21.1	21.5	22.8	24.0	24.7	22.6	20.4	20.4	22.4
38°	21.2	19.0	18.5	20.8	21.1	22.1	22.9	21.6	20.1	20.2	20.8
39°	17.9	16.0	15.9	18.2	18.4	19.2	20.2	20.4	19.7	18.7	18.4
40°	15.2	14.1	13.9	15.4	15.6	16.1	18.1	18.4	19.3	16.7	15.8
41°	13.7	12.8	12.5	13.1	13.5	14.0	14.8	16.2	17.7	14.7	13.9
42°	12.7	12.1	11.7	11.8	12.1	12.6	13.3	14.3	15.3	12.8	12.5



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CATALOG NUMBER: SEL25 UPDATED OPTIC

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	11.4	10.6	10.1	10.2	10.5	11.0	11.3	11.6	11.8	11.2	11.2
46°	11.0	10.3	9.8	10.0	10.3	10.6	10.9	11.3	11.5	11.1	11.1
47°	10.7	10.0	9.5	9.8	9.9	10.3	10.8	10.9	11.1	11.0	11.0
48°	10.3	9.8	9.3	9.5	9.7	10.1	10.7	10.5	10.9	10.9	10.7
49°	10.1	9.5	9.2	9.3	9.5	9.8	10.3	10.3	10.7	10.5	10.4
50°	9.8	9.4	9.1	9.1	9.2	9.6	10.0	10.1	10.5	10.3	10.2
51°	9.5	9.2	9.0	8.9	9.1	9.4	9.7	9.9	10.4	10.1	10.0
52°	9.4	9.2	9.0	8.7	9.0	9.2	9.5	9.6	10.1	9.9	9.8
53°	9.2	9.0	9.0	8.6	8.9	9.0	9.2	9.4	9.7	9.7	9.5
54°	8.7	8.7	8.8	8.5	8.7	8.8	8.8	9.1	9.4	9.4	9.2
55°	8.6	8.4	8.5	8.5	8.5	8.6	8.6	8.9	9.1	9.1	9.0
56°	8.4	8.1	8.4	8.5	8.2	8.4	8.7	8.7	8.9	8.9	8.7
57°	8.0	7.7	7.9	8.1	7.8	8.1	8.2	8.5	8.7	8.8	8.2
58°	7.6	7.2	7.4	7.8	7.4	7.8	8.1	8.3	8.4	8.5	7.9
59°	7.2	6.7	7.0	7.3	7.0	7.3	7.8	8.0	8.1	8.0	7.7
60°	6.7	6.2	6.5	6.9	6.6	6.8	7.4	7.7	7.8	7.5	7.3
61°	6.4	5.7	6.0	6.5	6.2	6.4	7.0	7.4	7.7	7.1	6.7
62°	5.9	5.5	5.6	6.0	5.6	6.1	6.7	7.1	7.1	6.8	6.4
63°	5.5	5.1	5.4	5.6	5.3	5.4	6.3	6.7	6.7	6.4	5.9
64°	5.2	4.9	5.1	5.4	5.0	5.1	5.9	6.5	6.5	5.9	5.6
65°	4.9	4.6	4.8	5.1	4.8	4.9	5.5	5.9	5.9	5.5	5.4
66°	4.6	4.3	4.6	4.8	4.5	4.6	5.3	5.3	5.5	5.2	5.1
67°	4.3	4.0	4.4	4.5	4.3	4.4	5.0	5.0	5.2	4.9	4.8
68°	3.9	3.3	3.8	4.2	4.1	4.1	4.7	4.6	4.9	4.6	4.5
69°	2.7	0.5	0.4	3.8	3.8	3.8	4.3	4.3	4.6	4.2	4.1
70°	0.4	0.3	0.4	0.4	1.0	3.5	3.9	3.9	4.2	3.8	3.7
71°	0.3	0.3	0.3	0.4	0.4	0.6	3.5	3.6	3.9	2.0	0.4
72°	0.3	0.2	0.2	0.3	0.3	0.4	0.8	3.3	3.2	0.5	0.4
73°	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.9	0.4	0.4	0.3
74°	0.2	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.3	0.2
75°	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2
76°	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.2	0.2
77°	0.1	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1
78°	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1
79°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87°	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):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	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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CATALOG NUMBER: SEL25 UPDATED OPTIC

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	201.8	201.8
1°	202.2	202.2
2°	202.0	202.5
3°	201.0	202.8
4°	199.6	202.1
5°	197.5	200.1
6°	194.7	197.8
7°	190.9	194.6
8°	186.6	190.7
9°	181.8	185.6
10°	176.0	179.8
11°	169.8	173.3
12°	162.8	166.3
13°	155.7	159.4
14°	147.9	152.1
15°	140.0	144.9
16°	132.1	137.4
17°	124.2	130.0
18°	116.0	122.7
19°	108.0	115.4
20°	100.7	108.2
21°	93.6	101.3
22°	86.8	94.4
23°	80.3	87.6
24°	73.9	80.8
25°	67.9	74.3
26°	62.1	68.0
27°	56.5	61.5
28°	51.0	55.4
29°	46.1	49.7
30°	41.8	44.8
31°	37.9	40.4
32°	34.6	36.7
33°	31.6	33.9
34°	29.4	31.7
35°	27.8	29.5
36°	26.0	27.6
37°	23.8	24.6
38°	21.3	21.2
39°	18.3	17.9
40°	15.5	15.2
41°	13.6	13.7
42°	12.4	12.7



TEST NUMBER: P869254

CATALOG NUMBER: SEL25 UPDATED OPTIC

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	11.1	11.4
46°	10.8	11.0
47°	10.6	10.7
48°	10.5	10.3
49°	10.2	10.1
50°	9.8	9.8
51°	9.5	9.5
52°	9.3	9.4
53°	9.1	9.2
54°	8.9	8.7
55°	8.7	8.6
56°	8.4	8.4
57°	7.9	8.0
58°	7.6	7.6
59°	7.3	7.2
60°	6.9	6.7
61°	6.4	6.4
62°	6.0	5.9
63°	5.4	5.5
64°	5.2	5.2
65°	4.9	4.9
66°	4.7	4.6
67°	4.4	4.3
68°	4.1	3.9
69°	3.7	2.7
70°	2.0	0.4
71°	0.4	0.3
72°	0.3	0.3
73°	0.3	0.2
74°	0.2	0.2
75°	0.2	0.1
76°	0.1	0.1
77°	0.1	0.1
78°	0.1	0.0
79°	0.0	0.0
80°	0.0	0.0
81°	0.0	0.0
82°	0.0	0.0
83°	0.0	0.0
84°	0.0	0.0
85°	0.0	0.0
86°	0.0	0.0
87°	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



TEST NUMBER: P869254
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CANDELA DISTRIBUTION (continued):

	330°	360°
90°	0.0	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°

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43°	12.2	11.5	11.1	11.1	11.3	11.9	12.3	13.0	13.5	12.0	11.8
44°	11.8	11.1	10.5	10.7	10.8	11.3	11.8	12.3	12.3	11.5	11.4



88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89°	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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43°	11.8	12.2
44°	11.4	11.8

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88°	0.0	0.0
89°	0.0	0.0

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Scaled Data Report



(END OF REPORT)