

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: IRiS

Report Number: P108843

Luminaire Tested: **PN3LED12FL40927-E3LWWH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P108843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13686)
Test Lab: PEACHTREE CITY
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: IRiS
Catalog Number: PN3LED12FL40927-E3LWWH
Description: IRIS 3 INCH LED LENSED WALL WASH FIXTURE WITH
SEMI SPECULAR CLEAR OPTICAL ELEMENT
AND 40 DEGREE PRIMARY OPTIC, 20 DEGREE AIMING ANGLE
Light Source: (1) 2700K 90CRI LED
Ballast/Driver: (1) 450mA ELECTRONIC DRIVER

Summary

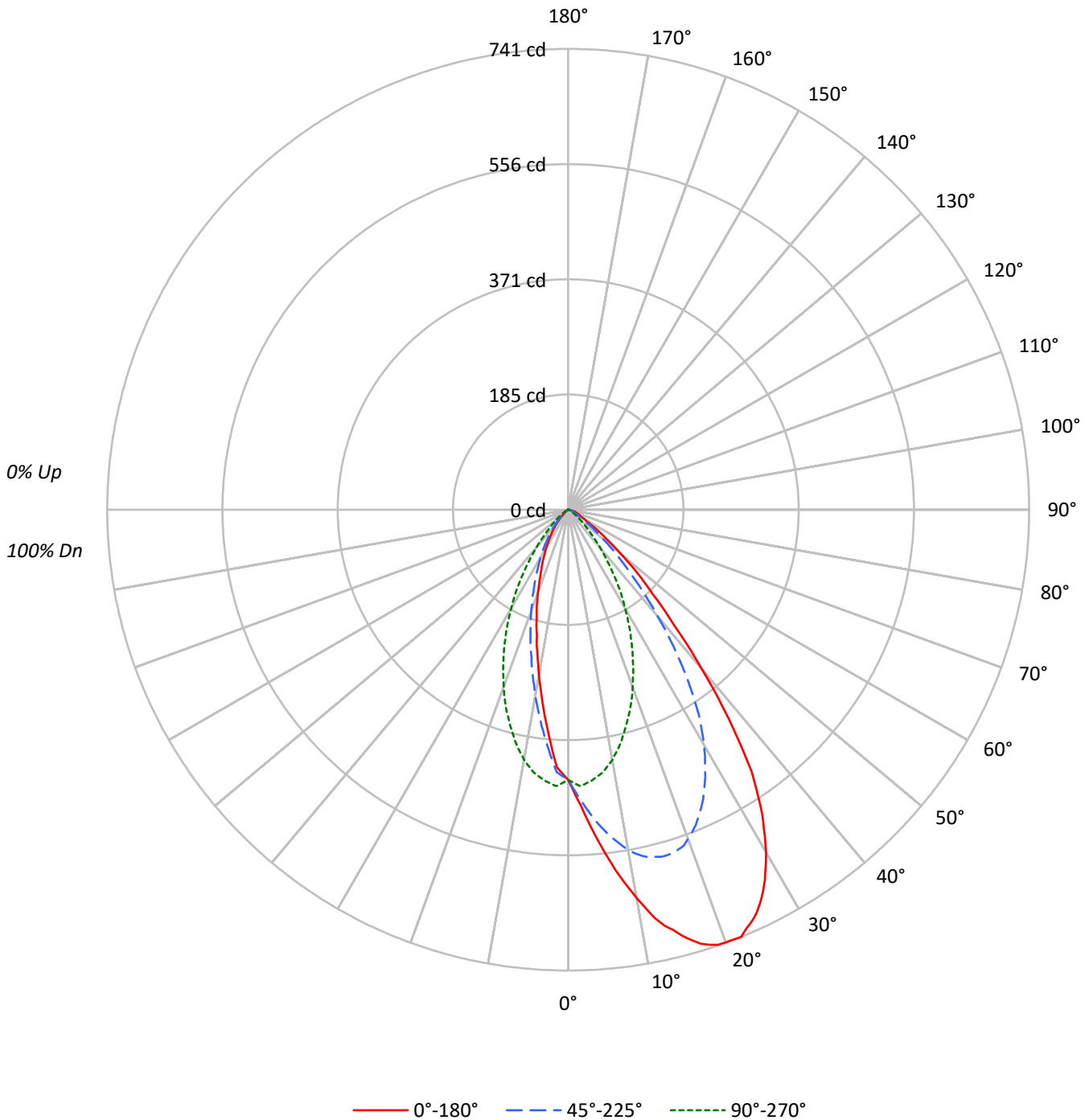
Lumens per Lamp: N/A
Luminaire Lumens: 517.3 lumens
Efficiency: N/A
Efficacy: 28.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.82 / 0.99
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

Input Watts (W): 18.5
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: 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	102	102	102	100					100			
1	113	110	107	105	110	108	105	103	103	102	100	100	98	97	96	95	94	92					92			
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	88	83	98	92	87	82	89	85	81	86	83	80	84	81	79	77					77			
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70					70			
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	73	69	66	65					65			
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	64	61	59					59			
7	79	69	62	58	78	68	62	57	67	61	57	66	61	57	64	60	56	55					55			
8	75	64	58	53	74	64	58	53	63	57	53	62	56	53	61	56	52	51					51			
9	71	60	54	49	70	60	54	49	59	53	49	58	53	49	57	52	49	47					47			
10	67	57	50	46	66	56	50	46	55	50	46	54	49	46	54	49	46	44					44			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	69967	69967	69967
5°	85824	70687	58510
10°	103748	66793	44218
15°	118335	59993	32874
20°	126954	51896	24259
25°	127257	43160	17776
30°	118369	34043	12966
35°	101050	25056	9145
40°	70158	17014	5931
45°	43949	10093	3053
50°	27695	6166	1754
55°	16207	3567	786
60°	9312	1804	451
65°	7243	1868	1067
70°	5982	659	330
75°	4793	436	0
80°	3897	649	0
85°	1294	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	8.1
10°-20°	113.9	22.0
20°-30°	147.3	28.5
30°-40°	123.8	23.9
40°-50°	60.9	11.8
50°-60°	19.8	3.8
60°-70°	6.5	1.3
70°-80°	2.7	0.5
80°-90°	0.6	0.1
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°	303.0	58.6
0°-40°	426.8	82.5
0°-60°	507.5	98.1
0°-90°	517.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	517.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	434	434	434	434	434	
5°	531	502	437	382	362	54
15°	710	578	360	232	197	201
25°	716	513	243	126	100	325
35°	514	336	127	59	46	311
45°	193	134	44	19	13	156
55°	58	39	13	5	3	54
65°	19	11	5	1	3	19
75°	8	4	1	1	0	9
85°	1	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	434.3	434.3	434.3	434.3	434.3	434.3	434.3	434.3	434.3	434.3	434.3
2.5°	477.2	477.2	477.2	475.8	475.1	473.7	472.3	470.9	469.5	467.4	465.3
5°	530.7	531.4	530.0	528.6	525.1	521.6	517.4	513.1	507.5	501.9	497.0
7.5°	584.9	583.5	581.4	577.9	573.7	566.6	559.6	550.5	541.3	531.4	520.2
10°	634.2	632.8	629.3	623.7	616.6	607.5	596.2	583.5	570.2	555.4	539.9
11°	652.5	649.7	646.9	640.6	632.8	620.8	610.3	594.8	579.3	563.1	544.8
12°	671.5	668.0	664.5	656.7	646.9	634.2	621.5	604.7	587.1	568.8	549.0
13°	686.3	684.2	678.6	670.1	660.3	646.2	630.7	613.1	593.4	573.7	552.6
14°	696.2	694.8	689.8	681.4	668.7	654.6	638.4	618.7	596.9	575.1	551.9
15°	709.5	708.1	702.5	692.6	680.7	664.5	646.2	625.1	601.8	577.9	552.6
16°	720.1	718.7	712.3	703.9	687.0	670.1	651.1	627.2	603.2	577.9	550.5
17°	729.9	727.8	720.8	708.8	693.3	676.4	654.6	631.4	604.7	577.2	548.3
18°	735.6	732.8	725.7	714.5	699.0	679.3	656.0	631.4	603.9	574.4	544.8
19°	739.8	736.3	728.5	716.6	700.4	679.3	655.3	628.6	599.7	570.9	539.2
20°	740.5	738.4	730.6	717.3	699.7	677.9	653.2	625.1	595.5	563.1	531.4
21°	740.5	737.0	728.5	715.2	696.9	674.3	648.3	619.4	587.8	555.4	523.7
22°	741.2	734.2	727.8	713.1	692.6	669.4	642.7	612.4	580.0	546.9	513.8
23°	732.1	728.5	719.4	705.3	684.9	661.0	634.2	601.8	570.9	536.4	501.9
24°	725.0	724.3	713.1	698.3	676.4	652.5	624.4	593.4	560.3	525.1	490.6
25°	715.9	712.3	702.5	687.0	666.6	641.3	613.1	580.7	547.6	513.1	477.2
26°	703.9	700.4	691.2	675.0	654.6	629.3	601.1	568.8	535.0	499.1	464.6
27°	689.8	685.6	676.4	661.7	639.1	613.8	585.6	554.0	520.2	485.0	449.1
28°	673.6	670.1	660.3	644.1	623.0	598.3	569.5	537.1	504.0	468.8	433.6
29°	654.6	651.1	642.7	626.5	606.8	582.1	551.9	520.2	487.8	453.3	418.8
30°	636.3	634.2	625.8	609.6	587.8	563.8	534.3	504.0	470.9	436.4	401.9
32.5°	580.0	576.5	568.8	554.0	534.3	510.3	483.6	454.0	422.3	390.7	358.3
35°	513.8	508.2	499.1	485.7	466.7	444.9	420.2	392.8	365.3	335.8	306.9
37.5°	423.7	421.6	413.9	401.9	387.8	368.1	349.8	326.6	302.7	278.7	254.8
40°	333.6	330.8	325.9	317.5	307.6	294.9	278.7	261.1	243.5	224.5	206.2
42.5°	253.4	252.7	248.5	243.5	235.8	226.0	214.7	202.0	190.1	176.0	161.2
45°	192.9	192.2	189.3	185.1	178.8	171.8	162.6	153.5	143.6	133.7	123.2
47.5°	150.6	147.1	145.0	140.8	135.9	129.5	123.9	116.1	109.1	100.7	92.2
50°	110.5	109.8	107.7	104.9	100.7	96.4	92.2	85.9	80.2	73.9	69.0
52.5°	78.8	80.2	78.8	76.0	74.6	69.7	66.9	62.6	58.4	53.5	48.6
55°	57.7	57.0	56.3	54.9	52.8	50.7	48.6	45.8	42.2	38.7	35.2
57.5°	37.3	36.6	37.3	35.2	33.8	33.8	30.3	28.9	25.3	23.2	22.5
60°	28.9	28.2	27.5	26.7	25.3	24.6	23.2	21.1	19.7	17.6	16.9
62.5°	22.5	22.5	21.8	21.1	20.4	19.0	18.3	16.9	15.5	14.1	12.0
65°	19.0	18.3	18.3	17.6	16.9	16.2	14.8	14.1	12.0	10.6	10.6
67.5°	16.2	14.1	14.8	13.4	12.7	12.7	11.3	9.2	8.4	7.0	7.0
70°	12.7	12.7	12.7	12.7	11.3	10.6	9.2	10.6	8.4	7.0	6.3
72.5°	11.3	10.6	11.3	11.3	9.9	9.2	8.4	8.4	6.3	5.6	5.6
75°	7.7	7.0	8.4	6.3	6.3	5.6	4.2	4.2	4.9	3.5	3.5
77.5°	4.9	4.9	4.9	4.9	4.2	4.2	4.2	2.8	2.8	2.1	1.4
80°	4.2	4.2	4.9	3.5	3.5	3.5	2.8	3.5	2.1	2.1	2.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
82.5°	1.4	2.1	2.1	1.4	2.1	2.1	1.4	1.4	0.7	0.7	1.4
85°	0.7	1.4	0.7	0.0	2.1	0.7	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.0	0.7	0.7	0.0	0.0
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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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	112.5°	135°	157.5°
0°	434.3	434.3	434.3	434.3	434.3	434.3	434.3	434.3	434.3	434.3	434.3
2.5°	463.2	460.4	458.2	456.1	452.6	449.8	447.7	444.9	432.9	422.3	416.0
5°	489.2	482.2	475.1	466.7	460.4	452.6	444.9	437.1	406.2	381.5	366.7
7.5°	509.6	497.0	485.0	473.7	461.8	449.1	436.4	425.9	377.3	342.1	321.7
10°	523.7	506.1	489.9	473.0	456.1	439.2	423.0	408.3	347.0	303.4	278.0
11°	526.5	507.5	489.2	470.2	451.9	434.3	416.0	399.1	333.6	287.9	262.6
12°	529.3	508.9	488.5	467.4	447.0	427.3	409.7	390.7	321.7	273.8	247.1
13°	530.0	507.5	485.7	463.2	442.0	420.2	400.5	380.8	308.3	259.7	232.3
14°	527.2	503.3	479.4	455.4	433.6	411.1	389.3	369.5	293.5	244.3	216.8
15°	527.2	500.5	476.5	450.5	427.3	403.3	380.8	359.7	282.3	232.3	205.5
16°	523.7	496.3	470.2	444.2	418.1	393.5	369.5	348.4	268.9	220.3	193.6
17°	519.5	491.3	464.6	437.1	410.4	383.6	360.4	338.6	256.9	207.7	182.3
18°	514.6	485.0	456.1	428.0	399.8	373.8	349.8	327.3	245.7	196.4	169.6
19°	507.5	475.1	446.3	417.4	390.0	362.5	338.6	316.1	234.4	184.4	159.1
20°	499.1	467.4	437.1	406.2	378.0	351.2	326.6	302.7	221.7	173.2	148.5
21°	490.6	456.1	425.2	394.2	366.0	338.6	313.9	290.7	209.8	162.6	139.4
22°	479.4	446.3	414.6	383.6	354.8	327.3	303.4	279.4	199.2	153.5	130.2
23°	467.4	432.9	401.9	371.7	342.1	313.9	289.3	266.1	186.5	142.9	121.1
24°	455.4	421.6	388.6	358.3	328.7	302.7	278.0	254.8	177.4	133.7	112.6
25°	443.5	408.3	377.3	345.6	316.1	290.0	265.4	242.8	166.8	126.0	104.9
26°	430.1	394.2	363.9	332.9	303.4	277.3	253.4	230.2	157.7	117.6	99.3
27°	414.6	380.1	349.8	318.2	290.7	263.3	240.7	218.9	147.1	109.1	92.2
28°	399.8	366.7	335.1	304.1	277.3	250.6	228.1	206.2	138.0	102.1	85.2
29°	386.4	352.0	321.0	292.1	263.3	237.9	215.4	195.0	128.8	95.0	79.5
30°	369.5	336.5	306.2	277.3	250.6	226.0	202.7	183.0	120.4	89.4	74.6
32.5°	326.6	295.6	266.8	240.0	215.4	191.5	172.5	155.6	100.0	73.2	61.2
35°	277.3	249.9	226.7	202.7	180.2	160.5	142.9	127.4	79.5	59.1	49.3
37.5°	231.6	207.7	186.5	166.1	147.1	130.2	115.4	102.1	62.6	46.5	38.0
40°	187.9	168.2	149.9	133.7	119.0	103.5	91.5	80.9	48.6	36.6	31.0
42.5°	146.4	131.6	117.6	103.5	90.8	79.5	69.0	60.5	37.3	26.7	22.5
45°	111.9	100.0	88.7	78.8	67.6	58.4	50.7	44.3	27.5	19.0	14.8
47.5°	83.8	74.6	67.6	58.4	51.4	44.3	38.7	33.1	21.1	14.8	10.6
50°	61.2	55.6	48.6	41.5	35.9	31.7	28.2	24.6	15.5	9.2	5.6
52.5°	43.6	38.0	34.5	31.0	26.0	22.5	19.0	16.9	10.6	5.6	5.6
55°	31.0	27.5	24.6	21.8	17.6	15.5	14.1	12.7	7.7	4.9	3.5
57.5°	18.3	16.2	12.7	10.6	9.2	8.4	7.0	5.6	1.4	0.0	0.0
60°	14.8	12.7	12.0	9.9	8.4	7.7	7.0	5.6	3.5	2.1	2.1
62.5°	11.3	9.9	9.2	8.4	7.7	7.0	6.3	4.9	2.8	2.1	2.1
65°	9.2	8.4	7.0	6.3	5.6	4.9	3.5	4.9	2.1	1.4	0.7
67.5°	5.6	3.5	3.5	2.8	2.1	2.1	2.1	0.7	0.0	0.0	0.0
70°	5.6	4.9	5.6	3.5	3.5	2.8	2.1	1.4	1.4	0.0	0.0
72.5°	4.2	3.5	4.2	2.8	2.8	2.1	2.1	1.4	0.7	1.4	1.4
75°	3.5	2.8	2.8	1.4	2.1	1.4	0.0	0.7	1.4	0.7	0.7
77.5°	2.1	0.7	1.4	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.7
80°	2.1	2.1	1.4	1.4	0.7	1.4	2.8	0.7	0.7	0.7	1.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	112.5°	135°	157.5°
82.5°	0.7	0.0	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.7	0.7
85°	1.4	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.7	0.0	0.7
87.5°	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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CANDELA DISTRIBUTION (continued):

	180°
0°	434.3
2.5°	414.6
5°	361.8
7.5°	313.9
10°	270.3
11°	253.4
12°	237.9
13°	224.5
14°	208.4
15°	197.1
16°	183.7
17°	173.2
18°	163.3
19°	151.3
20°	141.5
21°	131.6
22°	123.2
23°	114.0
24°	106.3
25°	100.0
26°	93.6
27°	86.6
28°	80.9
29°	75.3
30°	69.7
32.5°	57.0
35°	46.5
37.5°	35.9
40°	28.2
42.5°	20.4
45°	13.4
47.5°	9.9
50°	7.0
52.5°	3.5
55°	2.8
57.5°	0.0
60°	1.4
62.5°	2.1
65°	2.8
67.5°	0.0
70°	0.7
72.5°	0.7
75°	0.0
77.5°	0.0
80°	0.0



TEST NUMBER: P108843

CATALOG NUMBER: PN3LED12FL40927-E3LWWH

CANDELA DISTRIBUTION (continued):

	180°
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)