

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: P106566

Luminaire Tested: **P3LED09FL40830-E3LWWH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P106566
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: P3LED09FL40830-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) 3000K 80CRI LED
Ballast/Driver: (1) 340mA ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 623.3 lumens
Efficiency: N/A
Efficacy: 43.6 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

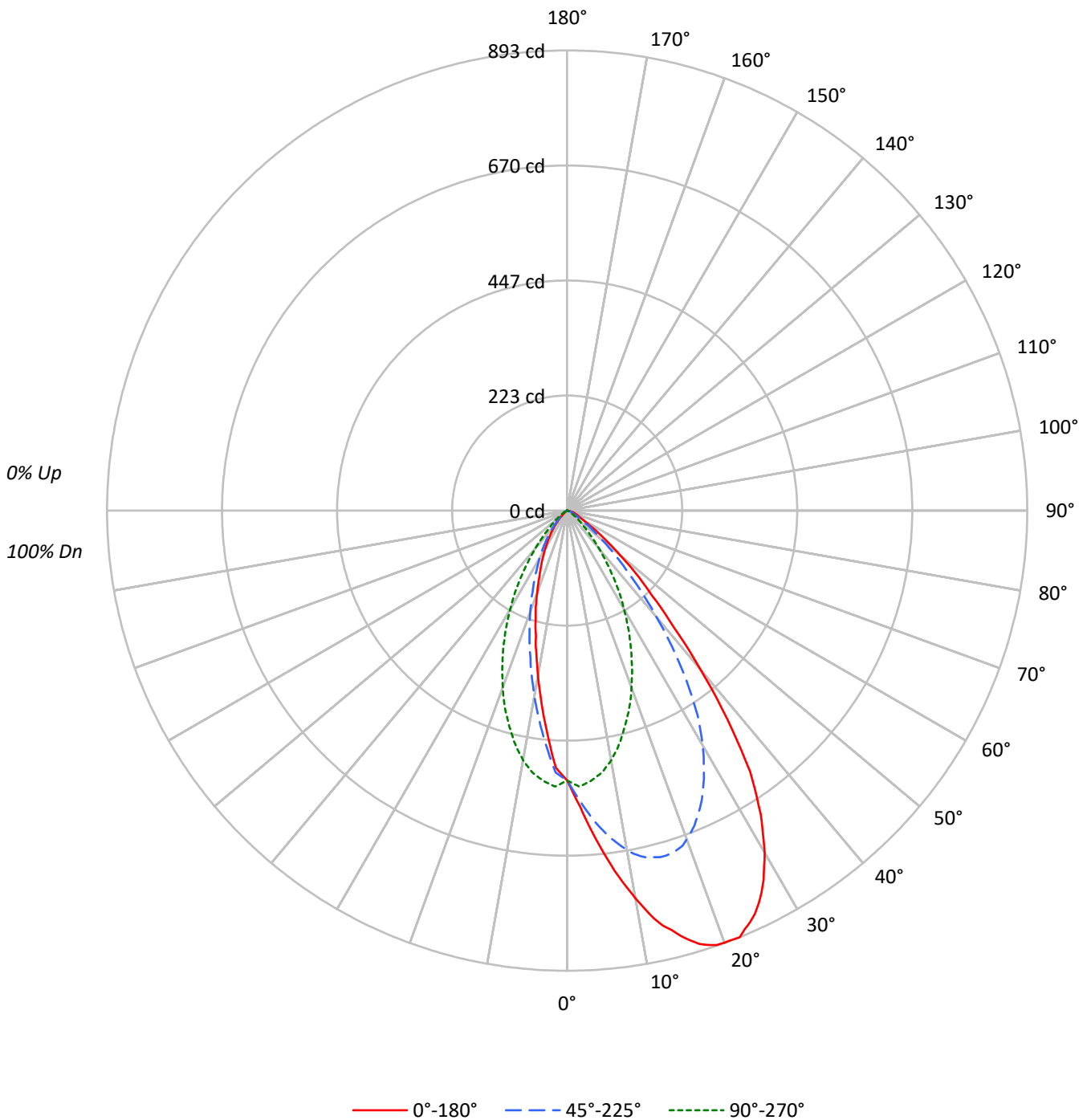
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P106566

CATALOG NUMBER: P3LED09FL40830-E3LWWH

Luminous Intensity Polar Plot





TEST NUMBER: P106566

CATALOG NUMBER: P3LED09FL40830-E3LWWH

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°	84322	84322	84322
5°	103436	85177	70510
10°	125031	80486	53281
15°	142603	72285	39612
20°	152979	62525	29231
25°	153334	52012	21402
30°	142645	41019	15626
35°	121779	30189	11014
40°	84564	20505	7129
45°	52949	12166	3668
50°	33384	7444	2130
55°	19549	4297	955
60°	11213	2191	548
65°	8730	2249	1296
70°	7207	801	377
75°	5789	498	0
80°	4732	742	0
85°	1479	0	0



TEST NUMBER: P106566

CATALOG NUMBER: P3LED09FL40830-E3LWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	8.1
10°-20°	137.2	22.0
20°-30°	177.5	28.5
30°-40°	149.2	23.9
40°-50°	73.4	11.8
50°-60°	23.8	3.8
60°-70°	7.8	1.3
70°-80°	3.3	0.5
80°-90°	0.7	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°	365.1	58.6
0°-40°	514.3	82.5
0°-60°	611.5	98.1
0°-90°	623.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	623.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	523	523	523	523	523	
5°	640	605	527	460	436	65
15°	855	696	433	280	238	242
25°	863	618	293	152	120	392
35°	619	405	154	71	56	374
45°	232	161	53	23	16	188
55°	70	47	15	6	3	65
65°	23	13	6	2	3	23
75°	9	4	1	1	0	10
85°	1	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P106566

CATALOG NUMBER: P3LED09FL40830-E3LWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	523.4	523.4	523.4	523.4	523.4	523.4	523.4	523.4	523.4	523.4	523.4
2.5°	575.1	575.1	575.1	573.4	572.6	570.9	569.2	567.5	565.8	563.2	560.7
5°	639.6	640.4	638.7	637.0	632.8	628.5	623.4	618.4	611.6	604.8	598.8
7.5°	704.9	703.2	700.6	696.4	691.3	682.8	674.3	663.3	652.3	640.4	626.8
10°	764.3	762.6	758.3	751.5	743.0	732.0	718.4	703.2	687.1	669.3	650.6
11°	786.3	782.9	779.5	771.9	762.6	748.1	735.4	716.8	698.1	678.6	656.5
12°	809.2	805.0	800.7	791.4	779.5	764.3	749.0	728.6	707.4	685.4	661.6
13°	827.0	824.5	817.7	807.5	795.6	778.7	760.0	738.8	715.1	691.3	665.9
14°	838.9	837.2	831.3	821.1	805.8	788.8	769.3	745.6	719.3	693.0	665.0
15°	855.0	853.3	846.5	834.7	820.2	800.7	778.7	753.2	725.2	696.4	665.9
16°	867.7	866.0	858.4	848.2	827.9	807.5	784.6	755.8	726.9	696.4	663.3
17°	879.6	877.1	868.6	854.2	835.5	815.1	788.8	760.9	728.6	695.5	660.8
18°	886.4	883.0	874.5	860.9	842.3	818.5	790.5	760.9	727.8	692.2	656.5
19°	891.5	887.2	877.9	863.5	844.0	818.5	789.7	757.5	722.7	687.9	649.7
20°	892.3	889.8	880.5	864.3	843.1	816.8	787.2	753.2	717.6	678.6	640.4
21°	892.3	888.1	877.9	861.8	839.7	812.6	781.2	746.4	708.3	669.3	631.1
22°	893.2	884.7	877.1	859.3	834.7	806.7	774.4	738.0	698.9	659.1	619.2
23°	882.2	877.9	866.9	849.9	825.3	796.5	764.3	725.2	687.9	646.3	604.8
24°	873.7	872.8	859.3	841.4	815.1	786.3	752.4	715.1	675.2	632.8	591.2
25°	862.6	858.4	846.5	827.9	803.3	772.7	738.8	699.8	659.9	618.4	575.1
26°	848.2	844.0	833.0	813.4	788.8	758.3	724.4	685.4	644.7	601.4	559.8
27°	831.3	826.2	815.1	797.3	770.2	739.7	705.7	667.6	626.8	584.4	541.2
28°	811.8	807.5	795.6	776.1	750.7	721.0	686.2	647.2	607.3	564.9	522.5
29°	788.8	784.6	774.4	754.9	731.2	701.5	665.0	626.8	587.8	546.3	504.7
30°	766.8	764.3	754.1	734.6	708.3	679.4	643.8	607.3	567.5	525.9	484.3
32.5°	698.9	694.7	685.4	667.6	643.8	615.0	582.7	547.1	508.9	470.8	431.7
35°	619.2	612.4	601.4	585.3	562.4	536.1	506.4	473.3	440.2	404.6	369.8
37.5°	510.6	508.1	498.8	484.3	467.4	443.6	421.6	393.6	364.7	335.9	307.1
40°	402.1	398.7	392.7	382.5	370.7	355.4	335.9	314.7	293.5	270.6	248.5
42.5°	305.4	304.5	299.4	293.5	284.2	272.3	258.7	243.4	229.0	212.1	194.2
45°	232.4	231.6	228.2	223.1	215.4	207.0	195.9	184.9	173.0	161.2	148.4
47.5°	181.5	177.3	174.7	169.6	163.7	156.1	149.3	140.0	131.5	121.3	111.1
50°	133.2	132.3	129.8	126.4	121.3	116.2	111.1	103.5	96.7	89.1	83.1
52.5°	95.0	96.7	95.0	91.6	89.9	84.0	80.6	75.5	70.4	64.5	58.5
55°	69.6	68.7	67.9	66.2	63.6	61.1	58.5	55.1	50.9	46.7	42.4
57.5°	45.0	44.1	45.0	42.4	40.7	40.7	36.5	34.8	30.5	28.0	27.1
60°	34.8	33.9	33.1	32.2	30.5	29.7	28.0	25.4	23.8	21.2	20.4
62.5°	27.1	27.1	26.3	25.4	24.6	22.9	22.1	20.4	18.7	17.0	14.4
65°	22.9	22.1	22.1	21.2	20.4	19.5	17.8	17.0	14.4	12.7	12.7
67.5°	19.5	17.0	17.8	16.1	15.3	15.3	13.6	11.0	10.2	8.5	8.5
70°	15.3	15.3	15.3	15.3	13.6	12.7	11.0	12.7	10.2	8.5	7.6
72.5°	13.6	12.7	13.6	13.6	11.9	11.0	10.2	10.2	7.6	6.8	6.8
75°	9.3	8.5	10.2	7.6	7.6	6.8	5.1	5.1	5.9	4.2	4.2
77.5°	5.9	5.9	5.9	5.9	5.1	5.1	5.1	3.4	3.4	2.5	1.7
80°	5.1	5.1	5.9	4.2	4.2	4.2	3.4	4.2	2.5	2.5	2.5



TEST NUMBER: P106566

CATALOG NUMBER: P3LED09FL40830-E3LWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
82.5°	1.7	2.5	2.5	1.7	2.5	2.5	1.7	1.7	0.8	0.8	1.7
85°	0.8	1.7	0.8	0.0	2.5	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.0	0.8	0.8	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



TEST NUMBER: P106566

CATALOG NUMBER: P3LED09FL40830-E3LWWH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	112.5°	135°	157.5°
0°	523.4	523.4	523.4	523.4	523.4	523.4	523.4	523.4	523.4	523.4	523.4
2.5°	558.1	554.7	552.2	549.7	545.4	542.0	539.5	536.1	521.7	508.9	501.3
5°	589.5	581.0	572.6	562.4	554.7	545.4	536.1	526.7	489.4	459.7	441.9
7.5°	614.1	598.8	584.4	570.9	556.4	541.2	525.9	513.2	454.6	412.2	387.6
10°	631.1	609.9	590.4	570.0	549.7	529.3	509.8	492.0	418.2	365.6	335.0
11°	634.5	611.6	589.5	566.6	544.6	523.4	501.3	480.9	402.1	346.9	316.4
12°	637.9	613.3	588.7	563.2	538.6	514.9	493.7	470.8	387.6	330.0	297.7
13°	638.7	611.6	585.3	558.1	532.7	506.4	482.6	458.9	371.5	313.0	279.9
14°	635.3	606.5	577.6	548.8	522.5	495.4	469.1	445.3	353.7	294.3	261.3
15°	635.3	603.1	574.2	542.9	514.9	486.0	458.9	433.4	340.1	279.9	247.7
16°	631.1	598.0	566.6	535.2	503.8	474.2	445.3	419.9	324.0	265.5	233.3
17°	626.0	592.1	559.8	526.7	494.5	462.3	434.3	408.0	309.6	250.2	219.7
18°	620.1	584.4	549.7	515.7	481.8	450.4	421.6	394.4	296.0	236.7	204.4
19°	611.6	572.6	537.8	503.0	469.9	436.8	408.0	380.9	282.5	222.2	191.7
20°	601.4	563.2	526.7	489.4	455.5	423.3	393.6	364.7	267.2	208.7	179.0
21°	591.2	549.7	512.3	475.0	441.1	408.0	378.3	350.3	252.8	195.9	167.9
22°	577.6	537.8	499.6	462.3	427.5	394.4	365.6	336.7	240.0	184.9	156.9
23°	563.2	521.7	484.3	447.9	412.2	378.3	348.6	320.6	224.8	172.2	145.9
24°	548.8	508.1	468.2	431.7	396.1	364.7	335.0	307.1	213.8	161.2	135.7
25°	534.4	492.0	454.6	416.5	380.9	349.5	319.8	292.6	201.0	151.8	126.4
26°	518.3	475.0	438.5	401.2	365.6	334.2	305.4	277.4	190.0	141.7	119.6
27°	499.6	458.0	421.6	383.4	350.3	317.2	290.1	263.8	177.3	131.5	111.1
28°	481.8	441.9	403.8	366.4	334.2	302.0	274.8	248.5	166.3	123.0	102.6
29°	465.7	424.1	386.8	352.0	317.2	286.7	259.6	235.0	155.2	114.5	95.8
30°	445.3	405.5	369.0	334.2	302.0	272.3	244.3	220.5	145.0	107.7	89.9
32.5°	393.6	356.3	321.5	289.2	259.6	230.7	207.8	187.5	120.4	88.2	73.8
35°	334.2	301.1	273.1	244.3	217.1	193.4	172.2	153.5	95.8	71.3	59.4
37.5°	279.1	250.2	224.8	200.2	177.3	156.9	139.1	123.0	75.5	56.0	45.8
40°	226.5	202.7	180.7	161.2	143.4	124.7	110.3	97.5	58.5	44.1	37.3
42.5°	176.4	158.6	141.7	124.7	109.4	95.8	83.1	72.9	45.0	32.2	27.1
45°	134.9	120.4	106.9	95.0	81.4	70.4	61.1	53.4	33.1	22.9	17.8
47.5°	100.9	89.9	81.4	70.4	61.9	53.4	46.7	39.9	25.4	17.8	12.7
50°	73.8	67.0	58.5	50.0	43.3	38.2	33.9	29.7	18.7	11.0	6.8
52.5°	52.6	45.8	41.6	37.3	31.4	27.1	22.9	20.4	12.7	6.8	6.8
55°	37.3	33.1	29.7	26.3	21.2	18.7	17.0	15.3	9.3	5.9	4.2
57.5°	22.1	19.5	15.3	12.7	11.0	10.2	8.5	6.8	1.7	0.0	0.0
60°	17.8	15.3	14.4	11.9	10.2	9.3	8.5	6.8	4.2	2.5	2.5
62.5°	13.6	11.9	11.0	10.2	9.3	8.5	7.6	5.9	3.4	2.5	2.5
65°	11.0	10.2	8.5	7.6	6.8	5.9	4.2	5.9	2.5	1.7	0.8
67.5°	6.8	4.2	4.2	3.4	2.5	2.5	2.5	0.8	0.0	0.0	0.0
70°	6.8	5.9	6.8	4.2	4.2	3.4	2.5	1.7	1.7	0.0	0.0
72.5°	5.1	4.2	5.1	3.4	3.4	2.5	2.5	1.7	0.8	1.7	1.7
75°	4.2	3.4	3.4	1.7	2.5	1.7	0.0	0.8	1.7	0.8	0.8
77.5°	2.5	0.8	1.7	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.8
80°	2.5	2.5	1.7	1.7	0.8	1.7	3.4	0.8	0.8	0.8	1.7



TEST NUMBER: P106566

CATALOG NUMBER: P3LED09FL40830-E3LWWH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	112.5°	135°	157.5°
82.5°	0.8	0.0	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8
85°	1.7	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.8	0.0	0.8
87.5°	0.0	0.0	0.8	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



TEST NUMBER: P106566

CATALOG NUMBER: P3LED09FL40830-E3LWWH

CANDELA DISTRIBUTION (continued):

	180°
0°	523.4
2.5°	499.6
5°	436.0
7.5°	378.3
10°	325.7
11°	305.4
12°	286.7
13°	270.6
14°	251.1
15°	237.5
16°	221.4
17°	208.7
18°	196.8
19°	182.4
20°	170.5
21°	158.6
22°	148.4
23°	137.4
24°	128.1
25°	120.4
26°	112.8
27°	104.3
28°	97.5
29°	90.8
30°	84.0
32.5°	68.7
35°	56.0
37.5°	43.3
40°	33.9
42.5°	24.6
45°	16.1
47.5°	11.9
50°	8.5
52.5°	4.2
55°	3.4
57.5°	0.0
60°	1.7
62.5°	2.5
65°	3.4
67.5°	0.0
70°	0.8
72.5°	0.8
75°	0.0
77.5°	0.0
80°	0.0



TEST NUMBER: P106566

CATALOG NUMBER: P3LED09FL40830-E3LWWH

CANDELA DISTRIBUTION (continued):

	180°
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)