

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: P106569

Luminaire Tested: **P3LED09FL40927-E3LWWH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P106569
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: P3LED09FL40927-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) 340mA ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 440.1 lumens
Efficiency: N/A
Efficacy: 30.8 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

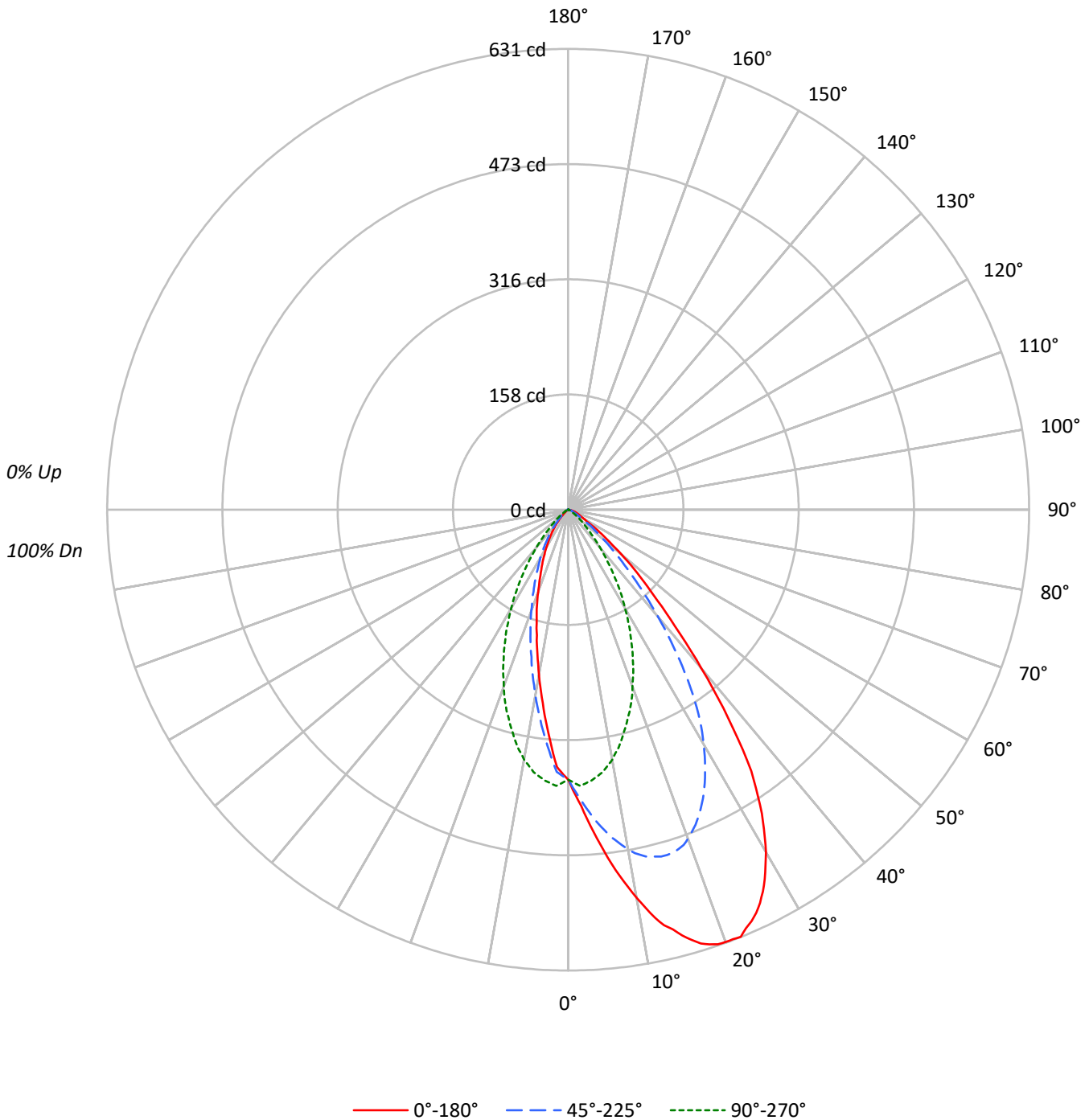
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P106569

CATALOG NUMBER: P3LED09FL40927-E3LWWH

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	92	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	61	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°	59528	59528	59528
5°	73032	60143	49777
10°	88273	56814	37625
15°	100689	51037	27970
20°	108009	44147	20642
25°	108273	36725	15109
30°	100715	28964	11031
35°	85985	21319	7769
40°	59706	14490	5047
45°	37388	8589	2597
50°	23560	5263	1504
55°	13791	3033	674
60°	7926	1547	387
65°	6176	1601	915
70°	5087	565	283
75°	4108	373	0
80°	3340	557	0
85°	1109	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.6	8.1
10°-20°	96.9	22.0
20°-30°	125.3	28.5
30°-40°	105.3	23.9
40°-50°	51.8	11.8
50°-60°	16.8	3.8
60°-70°	5.5	1.3
70°-80°	2.3	0.5
80°-90°	0.5	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°	257.8	58.6
0°-40°	363.1	82.5
0°-60°	431.8	98.1
0°-90°	440.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	440.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	370	370	370	370	370	
5°	452	427	372	325	308	46
15°	604	492	306	198	168	171
25°	609	437	207	107	85	277
35°	437	286	108	50	40	264
45°	164	114	38	16	11	133
55°	49	33	11	4	2	46
65°	16	9	4	1	2	17
75°	7	3	1	1	0	7
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°	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5
2.5°	406.0	406.0	406.0	404.8	404.2	403.0	401.8	400.7	399.5	397.7	395.9
5°	451.6	452.2	451.0	449.8	446.8	443.8	440.2	436.6	431.8	427.0	422.8
7.5°	497.7	496.5	494.7	491.7	488.1	482.1	476.1	468.3	460.5	452.2	442.6
10°	539.6	538.4	535.4	530.6	524.6	516.8	507.3	496.5	485.1	472.5	459.3
11°	555.2	552.8	550.4	545.0	538.4	528.2	519.2	506.1	492.9	479.1	463.5
12°	571.3	568.3	565.3	558.8	550.4	539.6	528.8	514.4	499.5	483.9	467.1
13°	583.9	582.1	577.3	570.1	561.7	549.8	536.6	521.6	504.9	488.1	470.1
14°	592.3	591.1	586.9	579.7	568.9	557.0	543.2	526.4	507.8	489.3	469.5
15°	603.7	602.5	597.7	589.3	579.1	565.3	549.8	531.8	512.0	491.7	470.1
16°	612.7	611.5	606.1	598.9	584.5	570.1	554.0	533.6	513.2	491.7	468.3
17°	621.0	619.2	613.3	603.1	589.9	575.5	557.0	537.2	514.4	491.1	466.5
18°	625.8	623.4	617.4	607.9	594.7	577.9	558.2	537.2	513.8	488.7	463.5
19°	629.4	626.4	619.8	609.7	595.9	577.9	557.6	534.8	510.2	485.7	458.7
20°	630.0	628.2	621.6	610.3	595.3	576.7	555.8	531.8	506.7	479.1	452.2
21°	630.0	627.0	619.8	608.5	592.9	573.7	551.6	527.0	500.1	472.5	445.6
22°	630.6	624.6	619.2	606.7	589.3	569.5	546.8	521.0	493.5	465.3	437.2
23°	622.8	619.8	612.1	600.1	582.7	562.3	539.6	512.0	485.7	456.3	427.0
24°	616.8	616.2	606.7	594.1	575.5	555.2	531.2	504.9	476.7	446.8	417.4
25°	609.1	606.1	597.7	584.5	567.1	545.6	521.6	494.1	465.9	436.6	406.0
26°	598.9	595.9	588.1	574.3	557.0	535.4	511.4	483.9	455.1	424.6	395.3
27°	586.9	583.3	575.5	562.9	543.8	522.2	498.3	471.3	442.6	412.6	382.1
28°	573.1	570.1	561.7	548.0	530.0	509.0	484.5	456.9	428.8	398.9	368.9
29°	557.0	554.0	546.8	533.0	516.2	495.3	469.5	442.6	415.0	385.7	356.3
30°	541.4	539.6	532.4	518.6	500.1	479.7	454.5	428.8	400.7	371.3	342.0
32.5°	493.5	490.5	483.9	471.3	454.5	434.2	411.4	386.3	359.3	332.4	304.8
35°	437.2	432.4	424.6	413.2	397.1	378.5	357.5	334.2	310.8	285.7	261.1
37.5°	360.5	358.7	352.1	342.0	330.0	313.2	297.6	277.9	257.5	237.2	216.8
40°	283.9	281.5	277.3	270.1	261.7	250.9	237.2	222.2	207.2	191.0	175.5
42.5°	215.6	215.0	211.4	207.2	200.6	192.2	182.7	171.9	161.7	149.7	137.1
45°	164.1	163.5	161.1	157.5	152.1	146.1	138.3	130.6	122.2	113.8	104.8
47.5°	128.2	125.2	123.4	119.8	115.6	110.2	105.4	98.8	92.8	85.6	78.5
50°	94.0	93.4	91.6	89.2	85.6	82.0	78.5	73.1	68.3	62.9	58.7
52.5°	67.1	68.3	67.1	64.7	63.5	59.3	56.9	53.3	49.7	45.5	41.3
55°	49.1	48.5	47.9	46.7	44.9	43.1	41.3	38.9	35.9	32.9	29.9
57.5°	31.7	31.1	31.7	29.9	28.7	28.7	25.8	24.6	21.6	19.8	19.2
60°	24.6	24.0	23.4	22.8	21.6	21.0	19.8	18.0	16.8	15.0	14.4
62.5°	19.2	19.2	18.6	18.0	17.4	16.2	15.6	14.4	13.2	12.0	10.2
65°	16.2	15.6	15.6	15.0	14.4	13.8	12.6	12.0	10.2	9.0	9.0
67.5°	13.8	12.0	12.6	11.4	10.8	10.8	9.6	7.8	7.2	6.0	6.0
70°	10.8	10.8	10.8	10.8	9.6	9.0	7.8	9.0	7.2	6.0	5.4
72.5°	9.6	9.0	9.6	9.6	8.4	7.8	7.2	7.2	5.4	4.8	4.8
75°	6.6	6.0	7.2	5.4	5.4	4.8	3.6	3.6	4.2	3.0	3.0
77.5°	4.2	4.2	4.2	4.2	3.6	3.6	3.6	2.4	2.4	1.8	1.2
80°	3.6	3.6	4.2	3.0	3.0	3.0	2.4	3.0	1.8	1.8	1.8



TEST NUMBER: P106569

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
82.5°	1.2	1.8	1.8	1.2	1.8	1.8	1.2	1.2	0.6	0.6	1.2
85°	0.6	1.2	0.6	0.0	1.8	0.6	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.0	0.6	0.6	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°	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5
2.5°	394.1	391.7	389.9	388.1	385.1	382.7	380.9	378.5	368.3	359.3	353.9
5°	416.2	410.2	404.2	397.1	391.7	385.1	378.5	371.9	345.6	324.6	312.0
7.5°	433.6	422.8	412.6	403.0	392.9	382.1	371.3	362.3	321.0	291.1	273.7
10°	445.6	430.6	416.8	402.4	388.1	373.7	359.9	347.3	295.2	258.1	236.6
11°	448.0	431.8	416.2	400.1	384.5	369.5	353.9	339.6	283.9	244.9	223.4
12°	450.4	433.0	415.6	397.7	380.3	363.5	348.5	332.4	273.7	233.0	210.2
13°	451.0	431.8	413.2	394.1	376.1	357.5	340.8	324.0	262.3	221.0	197.6
14°	448.6	428.2	407.8	387.5	368.9	349.7	331.2	314.4	249.7	207.8	184.5
15°	448.6	425.8	405.4	383.3	363.5	343.2	324.0	306.0	240.2	197.6	174.9
16°	445.6	422.2	400.1	377.9	355.7	334.8	314.4	296.4	228.8	187.4	164.7
17°	442.0	418.0	395.3	371.9	349.1	326.4	306.6	288.1	218.6	176.7	155.1
18°	437.8	412.6	388.1	364.1	340.2	318.0	297.6	278.5	209.0	167.1	144.3
19°	431.8	404.2	379.7	355.1	331.8	308.4	288.1	268.9	199.4	156.9	135.3
20°	424.6	397.7	371.9	345.6	321.6	298.8	277.9	257.5	188.6	147.3	126.4
21°	417.4	388.1	361.7	335.4	311.4	288.1	267.1	247.3	178.5	138.3	118.6
22°	407.8	379.7	352.7	326.4	301.8	278.5	258.1	237.8	169.5	130.6	110.8
23°	397.7	368.3	342.0	316.2	291.1	267.1	246.1	226.4	158.7	121.6	103.0
24°	387.5	358.7	330.6	304.8	279.7	257.5	236.6	216.8	150.9	113.8	95.8
25°	377.3	347.3	321.0	294.0	268.9	246.7	225.8	206.6	141.9	107.2	89.2
26°	365.9	335.4	309.6	283.3	258.1	236.0	215.6	195.8	134.1	100.0	84.4
27°	352.7	323.4	297.6	270.7	247.3	224.0	204.8	186.3	125.2	92.8	78.5
28°	340.2	312.0	285.1	258.7	236.0	213.2	194.0	175.5	117.4	86.8	72.5
29°	328.8	299.4	273.1	248.5	224.0	202.4	183.3	165.9	109.6	80.8	67.7
30°	314.4	286.3	260.5	236.0	213.2	192.2	172.5	155.7	102.4	76.1	63.5
32.5°	277.9	251.5	227.0	204.2	183.3	162.9	146.7	132.4	85.0	62.3	52.1
35°	236.0	212.6	192.8	172.5	153.3	136.5	121.6	108.4	67.7	50.3	41.9
37.5°	197.0	176.7	158.7	141.3	125.2	110.8	98.2	86.8	53.3	39.5	32.3
40°	159.9	143.1	127.6	113.8	101.2	88.0	77.9	68.9	41.3	31.1	26.4
42.5°	124.6	112.0	100.0	88.0	77.3	67.7	58.7	51.5	31.7	22.8	19.2
45°	95.2	85.0	75.5	67.1	57.5	49.7	43.1	37.7	23.4	16.2	12.6
47.5°	71.3	63.5	57.5	49.7	43.7	37.7	32.9	28.1	18.0	12.6	9.0
50°	52.1	47.3	41.3	35.3	30.5	26.9	24.0	21.0	13.2	7.8	4.8
52.5°	37.1	32.3	29.3	26.4	22.2	19.2	16.2	14.4	9.0	4.8	4.8
55°	26.4	23.4	21.0	18.6	15.0	13.2	12.0	10.8	6.6	4.2	3.0
57.5°	15.6	13.8	10.8	9.0	7.8	7.2	6.0	4.8	1.2	0.0	0.0
60°	12.6	10.8	10.2	8.4	7.2	6.6	6.0	4.8	3.0	1.8	1.8
62.5°	9.6	8.4	7.8	7.2	6.6	6.0	5.4	4.2	2.4	1.8	1.8
65°	7.8	7.2	6.0	5.4	4.8	4.2	3.0	4.2	1.8	1.2	0.6
67.5°	4.8	3.0	3.0	2.4	1.8	1.8	1.8	0.6	0.0	0.0	0.0
70°	4.8	4.2	4.8	3.0	3.0	2.4	1.8	1.2	1.2	0.0	0.0
72.5°	3.6	3.0	3.6	2.4	2.4	1.8	1.8	1.2	0.6	1.2	1.2
75°	3.0	2.4	2.4	1.2	1.8	1.2	0.0	0.6	1.2	0.6	0.6
77.5°	1.8	0.6	1.2	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.6
80°	1.8	1.8	1.2	1.2	0.6	1.2	2.4	0.6	0.6	0.6	1.2



TEST NUMBER: P106569

CATALOG NUMBER: P3LED09FL40927-E3LWWH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	112.5°	135°	157.5°
82.5°	0.6	0.0	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.6	0.6
85°	1.2	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.6	0.0	0.6
87.5°	0.0	0.0	0.6	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: P106569

CATALOG NUMBER: P3LED09FL40927-E3LWWH

CANDELA DISTRIBUTION (continued):

	180°
0°	369.5
2.5°	352.7
5°	307.8
7.5°	267.1
10°	230.0
11°	215.6
12°	202.4
13°	191.0
14°	177.3
15°	167.7
16°	156.3
17°	147.3
18°	138.9
19°	128.8
20°	120.4
21°	112.0
22°	104.8
23°	97.0
24°	90.4
25°	85.0
26°	79.7
27°	73.7
28°	68.9
29°	64.1
30°	59.3
32.5°	48.5
35°	39.5
37.5°	30.5
40°	24.0
42.5°	17.4
45°	11.4
47.5°	8.4
50°	6.0
52.5°	3.0
55°	2.4
57.5°	0.0
60°	1.2
62.5°	1.8
65°	2.4
67.5°	0.0
70°	0.6
72.5°	0.6
75°	0.0
77.5°	0.0
80°	0.0



TEST NUMBER: P106569

CATALOG NUMBER: P3LED09FL40927-E3LWWH

CANDELA DISTRIBUTION (continued):

	180°
82.5°	0.6
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)