

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: P106553

Luminaire Tested: **P3LED09NFL25827-E3LWWH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P106553  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13685)  
Test Lab: PEACHTREE CITY  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: IRiS  
Catalog Number: P3LED09NFL25827-E3LWWH  
Description: IRIS 3 INCH LED LENSED WALL WASH FIXTURE WITH  
SEMI SPECULAR CLEAR OPTICAL ELEMENT  
AND 25 DEGREE PRIMARY OPTIC, 20 DEGREE AIMING ANGLE  
Light Source: (1) 2700K 80CRI LED  
Ballast/Driver: (1) 340mA ELECTRONIC DRIVER

**Summary**

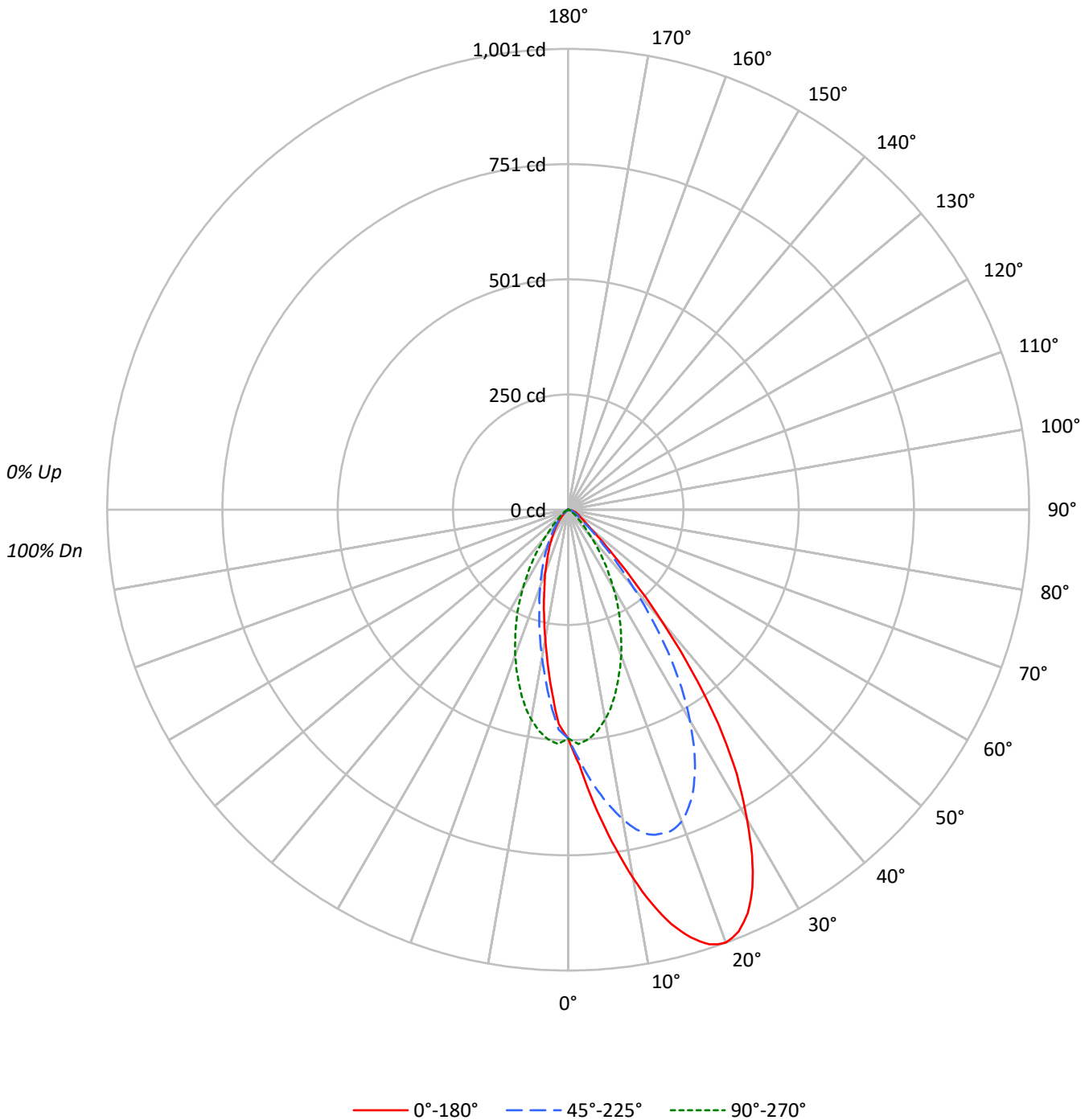
Lumens per Lamp: N/A  
Luminaire Lumens: 581.7 lumens  
Efficiency: N/A  
Efficacy: 41.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 0.8 / 0.98  
Luminous Opening: Circular (Dia: 0.31' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	67	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	53
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	58	54	50	49
10	68	58	52	48	67	58	52	48	57	51	47	56	51	47	55	51	47	46

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	69707	69707	69707
5°	90146	70536	56223
10°	115799	65880	40685
15°	137822	58567	29523
20°	149436	50285	21745
25°	145030	41112	15733
30°	125719	31762	11149
35°	97568	22752	8086
40°	57873	14070	5423
45°	26992	8256	2858
50°	13973	5240	1747
55°	9983	3719	1174
60°	8084	2470	674
65°	7704	1063	266
70°	7878	985	1970
75°	6073	434	434
80°	3879	0	647
85°	2576	1288	1288



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.5	8.3
10°-20°	137.0	23.6
20°-30°	177.6	30.5
30°-40°	135.7	23.3
40°-50°	52.2	9.0
50°-60°	17.4	3.0
60°-70°	8.4	1.4
70°-80°	3.8	0.7
80°-90°	1.0	0.2
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°	363.2	62.4
0°-40°	498.9	85.8
0°-60°	568.5	97.7
0°-90°	581.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	581.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	497	497	497	497	497	
5°	640	595	501	426	399	66
15°	949	731	403	243	203	268
25°	937	648	266	128	102	423
35°	570	378	133	59	47	346
45°	136	108	42	21	14	119
55°	41	31	15	5	5	38
65°	23	14	3	1	1	23
75°	11	7	1	1	1	12
85°	2	1	1	1	1	2
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°	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7
2.5°	554.3	554.3	555.1	552.7	551.9	550.3	549.5	546.3	544.7	543.1	539.1
5°	639.9	639.1	637.5	635.1	628.7	624.7	619.1	611.1	603.9	595.1	584.7
7.5°	727.0	725.4	723.0	716.6	707.8	698.2	686.2	673.4	658.3	641.5	626.3
10°	812.6	810.2	804.6	796.6	783.0	767.8	749.4	728.6	707.0	683.0	658.3
11°	845.4	843.0	835.8	827.0	811.8	793.4	772.6	749.4	723.8	697.4	669.4
12°	875.0	872.6	864.6	853.4	837.4	817.4	793.4	767.0	739.8	709.4	679.0
13°	903.0	901.4	891.8	878.2	861.4	839.8	813.4	784.6	752.6	719.8	684.6
14°	927.8	926.2	917.4	901.4	882.2	856.6	829.4	796.6	762.2	727.0	688.6
15°	948.6	947.0	936.6	919.8	899.0	871.8	841.4	806.2	770.2	731.0	691.8
16°	966.2	963.8	952.6	935.8	911.8	883.8	851.0	813.4	774.2	731.8	690.2
17°	980.6	977.4	966.2	947.8	923.0	893.4	859.0	818.2	779.0	734.2	687.8
18°	992.6	989.4	976.6	958.2	931.0	899.0	863.0	820.6	777.4	731.8	685.4
19°	998.2	993.4	981.4	961.4	934.2	900.6	863.0	819.0	774.2	727.0	679.0
20°	1000.6	995.8	983.0	962.2	933.4	899.0	859.8	815.8	769.4	720.6	671.0
21°	995.8	991.8	979.0	956.6	928.6	892.6	852.6	807.0	759.0	710.2	660.7
22°	987.8	983.0	969.4	947.8	918.2	883.8	842.2	795.8	749.4	697.4	648.7
23°	974.2	971.0	955.8	934.2	905.4	870.2	827.8	782.2	734.2	683.8	634.3
24°	959.0	954.2	939.8	917.4	889.4	852.6	811.0	765.4	716.6	667.8	619.1
25°	936.6	932.6	919.0	896.6	867.8	831.0	790.2	744.6	697.4	647.9	599.1
26°	912.6	907.8	894.2	871.0	843.0	808.6	767.8	723.0	676.6	627.9	579.9
27°	883.0	878.2	864.6	844.6	816.6	781.4	741.4	699.0	652.7	605.5	559.1
28°	850.2	846.2	833.4	812.6	784.6	750.2	713.4	673.4	627.9	581.5	535.9
29°	813.4	809.4	797.4	775.8	750.2	718.2	680.6	641.5	599.1	553.5	510.3
30°	775.8	771.8	763.0	740.6	716.6	686.2	651.9	611.1	571.9	528.7	486.3
32.5°	681.4	677.4	667.8	650.3	626.3	598.3	567.9	531.9	496.7	458.3	419.9
35°	569.5	566.3	555.9	540.7	522.3	496.7	468.7	439.9	409.5	378.3	347.1
37.5°	440.7	439.1	430.3	417.5	402.3	383.1	362.3	339.9	317.5	295.1	271.9
40°	315.9	315.1	311.1	303.9	291.1	279.9	264.7	251.9	235.9	220.0	204.0
42.5°	211.2	210.4	208.8	203.2	197.6	192.0	184.0	174.4	166.4	156.8	146.4
45°	136.0	135.2	133.6	132.0	129.6	126.4	122.4	118.4	114.4	108.0	102.4
47.5°	91.2	90.4	89.6	88.0	87.2	84.8	81.6	80.0	77.6	74.4	71.2
50°	64.0	64.8	64.0	63.2	61.6	60.8	58.4	56.8	55.2	52.8	50.4
52.5°	50.4	51.2	49.6	49.6	47.2	45.6	44.8	43.2	41.6	40.8	36.8
55°	40.8	40.8	40.0	39.2	38.4	37.6	36.0	34.4	32.8	31.2	29.6
57.5°	33.6	33.6	32.8	32.0	32.8	31.2	28.8	28.0	28.0	24.0	24.0
60°	28.8	29.6	28.8	28.8	27.2	26.4	25.6	24.0	22.4	20.8	19.2
62.5°	26.4	26.4	25.6	25.6	25.6	25.6	21.6	21.6	19.2	17.6	16.0
65°	23.2	22.4	21.6	21.6	20.0	19.2	17.6	16.8	16.0	13.6	12.0
67.5°	20.0	20.0	20.0	19.2	17.6	17.6	16.0	13.6	12.8	12.0	11.2
70°	19.2	19.2	17.6	17.6	16.0	14.4	14.4	12.8	11.2	11.2	8.8
72.5°	14.4	14.4	13.6	12.8	12.8	11.2	9.6	8.8	8.8	7.2	6.4
75°	11.2	11.2	11.2	11.2	8.8	8.8	8.0	8.0	6.4	7.2	4.0
77.5°	8.0	8.0	8.0	7.2	6.4	6.4	5.6	4.8	4.8	4.0	4.0
80°	4.8	4.8	5.6	4.0	4.8	5.6	4.0	4.0	4.0	2.4	3.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
82.5°	2.4	3.2	2.4	3.2	2.4	2.4	2.4	2.4	1.6	1.6	0.8
85°	1.6	2.4	2.4	2.4	1.6	0.8	1.6	1.6	1.6	0.8	0.8
87.5°	0.8	0.0	0.0	0.0	0.8	0.8	0.0	0.8	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):**

	55°	60°	65°	70°	75°	80°	85°	90°	112.5°	135°	157.5°
0°	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7
2.5°	535.1	532.7	529.5	524.7	521.5	517.5	512.7	509.5	493.5	477.5	470.3
5°	575.1	564.7	555.1	543.9	532.7	523.1	512.7	500.7	458.3	426.3	404.7
7.5°	608.7	590.3	571.9	553.5	536.7	519.1	500.7	484.7	419.1	374.3	347.9
10°	633.5	607.1	580.7	555.9	531.1	507.9	484.7	462.3	379.9	325.5	295.9
11°	641.5	611.9	582.3	554.3	527.9	500.7	475.1	451.9	364.7	308.7	278.3
12°	646.3	614.3	581.5	551.1	521.5	495.1	466.3	441.5	350.3	291.1	259.1
13°	649.5	614.3	579.9	546.3	515.1	484.7	456.7	428.7	334.3	274.3	243.1
14°	651.9	614.3	577.5	542.3	507.9	475.1	445.5	417.5	318.3	259.1	227.9
15°	650.3	610.3	571.1	533.5	497.5	464.7	431.9	403.1	303.1	243.1	212.8
16°	648.7	606.3	564.7	523.9	487.1	451.9	419.1	389.5	286.3	226.3	197.6
17°	643.1	599.1	555.9	515.1	475.9	439.1	405.5	375.9	271.9	213.6	184.8
18°	639.1	592.7	547.9	505.5	465.5	428.7	394.3	363.9	259.9	203.2	173.6
19°	631.1	583.1	539.1	494.3	453.5	415.1	381.5	348.7	245.5	189.6	164.0
20°	622.3	574.3	527.1	483.1	441.5	402.3	368.7	336.7	232.7	178.4	152.0
21°	610.3	560.7	514.3	469.5	427.9	388.7	353.5	321.5	220.8	167.2	142.4
22°	596.7	547.9	500.7	455.9	412.7	375.1	338.3	307.1	208.0	156.0	132.0
23°	583.1	532.7	485.5	440.7	399.1	360.7	324.7	294.3	196.0	147.2	124.0
24°	568.7	517.5	470.3	425.5	383.9	345.5	311.9	279.1	184.8	136.8	115.2
25°	549.5	499.9	452.7	408.7	367.9	329.5	295.9	265.5	172.8	128.0	107.2
26°	531.1	483.1	435.9	393.5	352.7	315.1	282.3	252.7	162.4	120.0	100.8
27°	511.1	463.1	418.3	376.7	336.7	300.7	267.9	238.3	151.2	111.2	93.6
28°	488.7	443.1	399.9	359.9	319.9	284.7	253.5	224.7	141.6	104.0	86.4
29°	464.7	421.5	378.3	339.9	301.5	267.1	237.5	208.8	129.6	94.4	78.4
30°	443.1	401.5	360.7	320.7	284.7	251.1	220.8	196.0	120.0	87.2	73.6
32.5°	382.3	344.7	307.1	273.5	241.5	211.2	185.6	163.2	99.2	72.8	62.4
35°	315.9	284.7	252.7	223.9	197.6	174.4	152.0	132.8	81.6	59.2	50.4
37.5°	247.1	223.1	200.0	177.6	156.0	136.0	118.4	103.2	62.4	46.4	40.8
40°	186.4	169.6	152.8	135.2	118.4	103.2	90.4	76.8	48.0	36.8	32.8
42.5°	135.2	123.2	111.2	99.2	86.4	75.2	64.8	56.8	36.8	28.0	23.2
45°	95.2	88.0	79.2	70.4	60.8	52.8	47.2	41.6	28.8	20.8	16.0
47.5°	67.2	63.2	56.8	49.6	43.2	39.2	34.4	31.2	23.2	16.0	11.2
50°	48.0	44.0	40.8	35.2	32.8	29.6	27.2	24.0	16.8	12.0	8.8
52.5°	36.0	32.8	31.2	26.4	24.8	23.2	20.8	19.2	12.0	8.0	5.6
55°	27.2	25.6	23.2	20.8	19.2	17.6	16.0	15.2	8.8	4.8	4.0
57.5°	21.6	19.2	18.4	16.0	14.4	12.8	13.6	11.2	8.0	3.2	2.4
60°	18.4	16.8	13.6	12.8	11.2	10.4	9.6	8.8	4.8	3.2	2.4
62.5°	14.4	13.6	11.2	10.4	9.6	8.0	8.0	7.2	3.2	2.4	2.4
65°	10.4	9.6	8.0	7.2	7.2	5.6	4.8	3.2	1.6	0.8	0.0
67.5°	9.6	7.2	8.0	6.4	4.8	4.0	3.2	4.0	1.6	1.6	1.6
70°	8.0	7.2	6.4	6.4	4.0	4.0	3.2	2.4	1.6	1.6	1.6
72.5°	5.6	4.8	4.0	2.4	2.4	1.6	2.4	0.8	0.8	0.8	0.8
75°	4.0	3.2	4.0	3.2	2.4	1.6	4.0	0.8	0.8	0.8	0.8
77.5°	3.2	2.4	1.6	1.6	0.8	1.6	0.8	0.8	0.8	0.0	0.8
80°	4.8	3.2	1.6	0.8	0.8	2.4	3.2	0.0	3.2	0.8	0.8





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	112.5°	135°	157.5°
82.5°	1.6	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.0	0.8	0.8	0.8	1.6	2.4	0.8	1.6	0.8	0.8
87.5°	0.0	0.0	0.0	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°	496.7
2.5°	466.3
5°	399.1
7.5°	338.3
10°	285.5
11°	267.1
12°	249.5
13°	232.7
14°	219.2
15°	203.2
16°	188.8
17°	176.0
18°	165.6
19°	156.0
20°	145.6
21°	134.4
22°	124.8
23°	116.8
24°	109.6
25°	101.6
26°	95.2
27°	88.8
28°	82.4
29°	74.4
30°	68.8
32.5°	57.6
35°	47.2
37.5°	38.4
40°	29.6
42.5°	21.6
45°	14.4
47.5°	12.8
50°	8.0
52.5°	7.2
55°	4.8
57.5°	1.6
60°	2.4
62.5°	1.6
65°	0.8
67.5°	0.8
70°	4.8
72.5°	0.8
75°	0.8
77.5°	0.0
80°	0.8



TEST NUMBER: P106553

CATALOG NUMBER: P3LED09NFL25827-E3LWWH

**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)