

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: P108838

Luminaire Tested: **PN3LED12NFL25930-E3LWWH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P108838
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: PN3LED12NFL25930-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) 3000K 90CRI LED
Ballast/Driver: (1) 450mA ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 575.7 lumens
Efficiency: N/A
Efficacy: 31.3 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

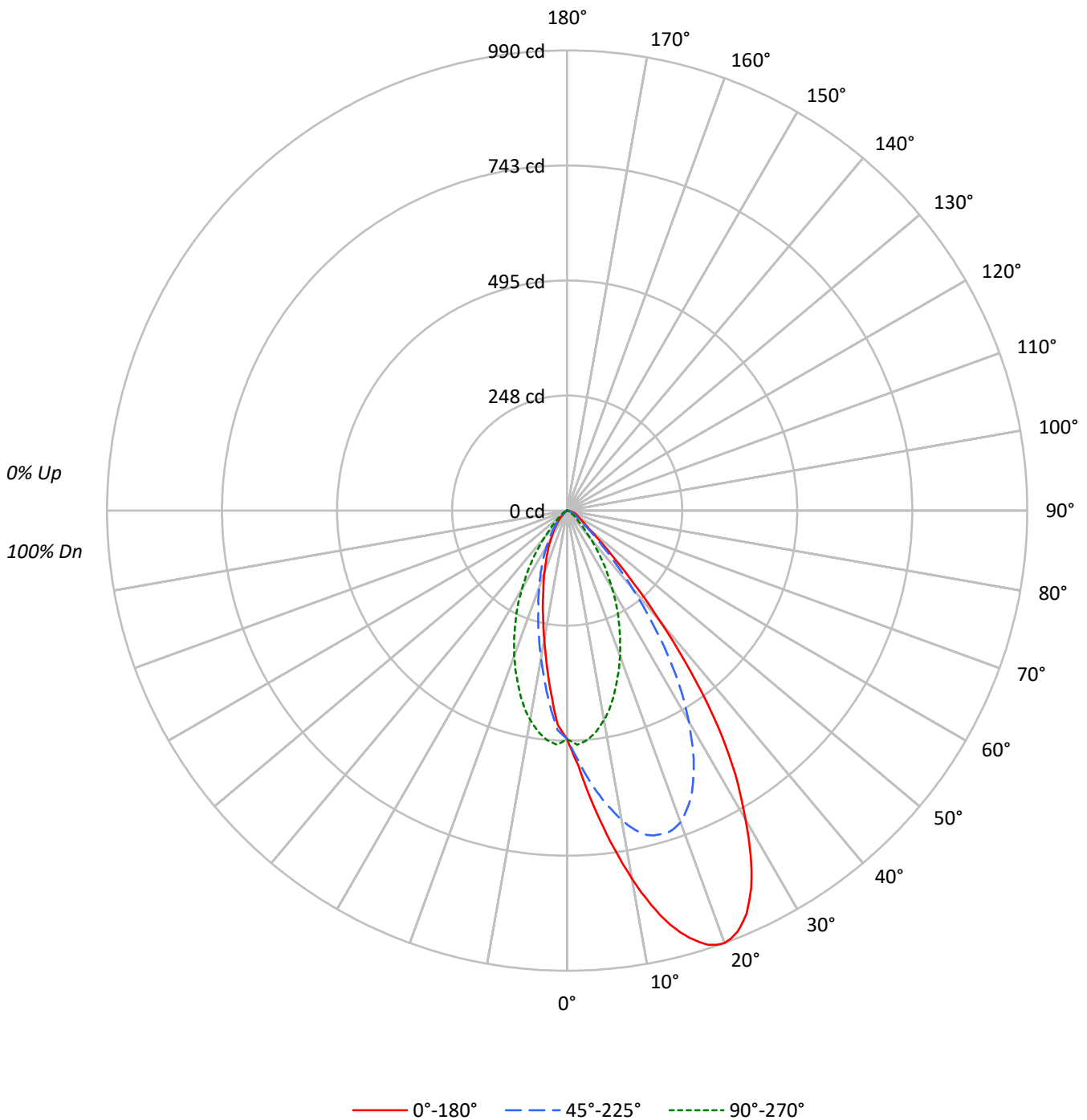
Input Watts (W): 18.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	68991	68991	68991
5°	89217	69818	55646
10°	114616	65210	40272
15°	136413	57971	29218
20°	147898	49777	21521
25°	143544	40694	15562
30°	124438	31438	11036
35°	96575	22512	8001
40°	57287	13923	5368
45°	26714	8177	2818
50°	13820	5174	1725
55°	9885	3670	1150
60°	7999	2442	674
65°	7638	1063	266
70°	7796	985	1929
75°	6019	434	434
80°	3798	0	647
85°	2576	1288	1288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.1	8.3
10°-20°	135.6	23.6
20°-30°	175.8	30.5
30°-40°	134.3	23.3
40°-50°	51.7	9.0
50°-60°	17.2	3.0
60°-70°	8.3	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°	359.5	62.4
0°-40°	493.8	85.8
0°-60°	562.7	97.7
0°-90°	575.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	575.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	492	492	492	492	492	
5°	633	589	496	422	395	66
15°	939	724	399	241	201	265
25°	927	641	263	127	100	418
35°	564	374	131	59	47	342
45°	135	107	41	21	14	118
55°	40	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	



TEST NUMBER: P108838

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	491.6	491.6	491.6	491.6	491.6	491.6	491.6	491.6	491.6	491.6	491.6
2.5°	548.6	548.6	549.4	547.0	546.2	544.7	543.9	540.7	539.1	537.5	533.6
5°	633.3	632.5	630.9	628.6	622.2	618.3	612.7	604.8	597.7	589.0	578.7
7.5°	719.6	718.0	715.6	709.3	700.6	691.1	679.2	666.6	651.5	634.9	619.9
10°	804.3	801.9	796.4	788.5	775.0	760.0	741.8	721.2	699.8	676.1	651.5
11°	836.8	834.4	827.3	818.6	803.5	785.3	764.7	741.8	716.4	690.3	662.6
12°	866.1	863.7	855.8	844.7	828.9	809.1	785.3	759.2	732.3	702.2	672.1
13°	893.8	892.2	882.7	869.2	852.6	831.2	805.1	776.6	744.9	712.5	677.6
14°	918.3	916.7	908.0	892.2	873.2	847.9	820.9	788.5	754.4	719.6	681.6
15°	938.9	937.3	927.0	910.4	889.8	862.9	832.8	798.0	762.4	723.6	684.8
16°	956.3	953.9	942.8	926.2	902.5	874.8	842.3	805.1	766.3	724.4	683.2
17°	970.6	967.4	956.3	938.1	913.6	884.3	850.2	809.9	771.1	726.7	680.8
18°	982.4	979.3	966.6	948.4	921.5	889.8	854.2	812.2	769.5	724.4	678.4
19°	988.0	983.2	971.3	951.6	924.6	891.4	854.2	810.6	766.3	719.6	672.1
20°	990.3	985.6	972.9	952.3	923.8	889.8	851.0	807.5	761.6	713.3	664.2
21°	985.6	981.6	969.0	946.8	919.1	883.5	843.9	798.8	751.3	703.0	653.9
22°	977.7	972.9	959.5	938.1	908.8	874.8	833.6	787.7	741.8	690.3	642.0
23°	964.2	961.1	946.0	924.6	896.1	861.3	819.4	774.2	726.7	676.9	627.8
24°	949.2	944.4	930.2	908.0	880.3	843.9	802.7	757.6	709.3	661.0	612.7
25°	927.0	923.1	909.6	887.4	858.9	822.5	782.1	737.0	690.3	641.2	592.9
26°	903.3	898.5	885.1	862.1	834.4	800.4	760.0	715.6	669.7	621.4	573.9
27°	874.0	869.2	855.8	836.0	808.3	773.4	733.9	691.9	646.0	599.3	553.4
28°	841.5	837.6	824.9	804.3	776.6	742.6	706.1	666.6	621.4	575.5	530.4
29°	805.1	801.1	789.3	767.9	742.6	710.9	673.7	634.9	592.9	547.8	505.1
30°	767.9	763.9	755.2	733.1	709.3	679.2	645.2	604.8	566.0	523.3	481.3
32.5°	674.5	670.5	661.0	643.6	619.9	592.2	562.1	526.4	491.6	453.6	415.6
35°	563.7	560.5	550.2	535.2	516.9	491.6	463.9	435.4	405.3	374.4	343.6
37.5°	436.2	434.6	425.9	413.2	398.2	379.2	358.6	336.4	314.3	292.1	269.2
40°	312.7	311.9	307.9	300.8	288.2	277.1	262.0	249.4	233.5	217.7	201.9
42.5°	209.0	208.2	206.6	201.1	195.5	190.0	182.1	172.6	164.7	155.2	144.9
45°	134.6	133.8	132.2	130.6	128.2	125.1	121.1	117.2	113.2	106.9	101.3
47.5°	90.2	89.5	88.7	87.1	86.3	83.9	80.7	79.2	76.8	73.6	70.5
50°	63.3	64.1	63.3	62.5	61.0	60.2	57.8	56.2	54.6	52.2	49.9
52.5°	49.9	50.7	49.1	49.1	46.7	45.1	44.3	42.7	41.2	40.4	36.4
55°	40.4	40.4	39.6	38.8	38.0	37.2	35.6	34.0	32.5	30.9	29.3
57.5°	33.2	33.2	32.5	31.7	32.5	30.9	28.5	27.7	27.7	23.7	23.7
60°	28.5	29.3	28.5	28.5	26.9	26.1	25.3	23.7	22.2	20.6	19.0
62.5°	26.1	26.1	25.3	25.3	25.3	25.3	21.4	21.4	19.0	17.4	15.8
65°	23.0	22.2	21.4	21.4	19.8	19.0	17.4	16.6	15.8	13.5	11.9
67.5°	19.8	19.8	19.8	19.0	17.4	17.4	15.8	13.5	12.7	11.9	11.1
70°	19.0	19.0	17.4	17.4	15.8	14.2	14.2	12.7	11.1	11.1	8.7
72.5°	14.2	14.2	13.5	12.7	12.7	11.1	9.5	8.7	8.7	7.1	6.3
75°	11.1	11.1	11.1	11.1	8.7	8.7	7.9	7.9	6.3	7.1	4.0
77.5°	7.9	7.9	7.9	7.1	6.3	6.3	5.5	4.7	4.7	4.0	4.0
80°	4.7	4.7	5.5	4.0	4.7	5.5	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°	491.6	491.6	491.6	491.6	491.6	491.6	491.6	491.6	491.6	491.6	491.6
2.5°	529.6	527.2	524.1	519.3	516.2	512.2	507.4	504.3	488.4	472.6	465.5
5°	569.2	558.9	549.4	538.3	527.2	517.7	507.4	495.6	453.6	421.9	400.6
7.5°	602.4	584.2	566.0	547.8	531.2	513.8	495.6	479.7	414.8	370.5	344.4
10°	627.0	600.9	574.7	550.2	525.7	502.7	479.7	457.6	376.0	322.2	292.9
11°	634.9	605.6	576.3	548.6	522.5	495.6	470.2	447.3	361.0	305.6	275.5
12°	639.6	608.0	575.5	545.4	516.2	490.0	461.5	437.0	346.7	288.2	256.5
13°	642.8	608.0	573.9	540.7	509.8	479.7	452.0	424.3	330.9	271.5	240.7
14°	645.2	608.0	571.6	536.7	502.7	470.2	440.9	413.2	315.1	256.5	225.6
15°	643.6	604.0	565.2	528.0	492.4	459.9	427.5	399.0	300.0	240.7	210.6
16°	642.0	600.1	558.9	518.5	482.1	447.3	414.8	385.5	283.4	224.0	195.5
17°	636.5	592.9	550.2	509.8	471.0	434.6	401.4	372.1	269.2	211.4	182.9
18°	632.5	586.6	542.3	500.3	460.7	424.3	390.3	360.2	257.3	201.1	171.8
19°	624.6	577.1	533.6	489.2	448.9	410.9	377.6	345.2	243.0	187.6	162.3
20°	615.9	568.4	521.7	478.2	437.0	398.2	364.9	333.3	230.4	176.5	150.4
21°	604.0	554.9	509.0	464.7	423.5	384.7	349.9	318.2	218.5	165.5	140.9
22°	590.6	542.3	495.6	451.2	408.5	371.3	334.9	304.0	205.8	154.4	130.6
23°	577.1	527.2	480.5	436.2	395.0	357.0	321.4	291.3	194.0	145.7	122.7
24°	562.9	512.2	465.5	421.2	380.0	342.0	308.7	276.3	182.9	135.4	114.0
25°	543.9	494.8	448.1	404.5	364.2	326.2	292.9	262.8	171.0	126.7	106.1
26°	525.7	478.2	431.4	389.5	349.1	311.9	279.5	250.2	160.7	118.7	99.7
27°	505.9	458.4	414.0	372.9	333.3	297.7	265.2	235.9	149.6	110.0	92.6
28°	483.7	438.6	395.8	356.2	316.7	281.8	251.0	222.5	140.1	102.9	85.5
29°	459.9	417.2	374.4	336.4	298.5	264.4	235.1	206.6	128.2	93.4	77.6
30°	438.6	397.4	357.0	317.4	281.8	248.6	218.5	194.0	118.7	86.3	72.8
32.5°	378.4	341.2	304.0	270.7	239.1	209.0	183.7	161.5	98.2	72.0	61.7
35°	312.7	281.8	250.2	221.7	195.5	172.6	150.4	131.4	80.7	58.6	49.9
37.5°	244.6	220.9	197.9	175.7	154.4	134.6	117.2	102.1	61.7	45.9	40.4
40°	184.5	167.8	151.2	133.8	117.2	102.1	89.5	76.0	47.5	36.4	32.5
42.5°	133.8	121.9	110.0	98.2	85.5	74.4	64.1	56.2	36.4	27.7	23.0
45°	94.2	87.1	78.4	69.7	60.2	52.2	46.7	41.2	28.5	20.6	15.8
47.5°	66.5	62.5	56.2	49.1	42.7	38.8	34.0	30.9	23.0	15.8	11.1
50°	47.5	43.5	40.4	34.8	32.5	29.3	26.9	23.7	16.6	11.9	8.7
52.5°	35.6	32.5	30.9	26.1	24.5	23.0	20.6	19.0	11.9	7.9	5.5
55°	26.9	25.3	23.0	20.6	19.0	17.4	15.8	15.0	8.7	4.7	4.0
57.5°	21.4	19.0	18.2	15.8	14.2	12.7	13.5	11.1	7.9	3.2	2.4
60°	18.2	16.6	13.5	12.7	11.1	10.3	9.5	8.7	4.7	3.2	2.4
62.5°	14.2	13.5	11.1	10.3	9.5	7.9	7.9	7.1	3.2	2.4	2.4
65°	10.3	9.5	7.9	7.1	7.1	5.5	4.7	3.2	1.6	0.8	0.0
67.5°	9.5	7.1	7.9	6.3	4.7	4.0	3.2	4.0	1.6	1.6	1.6
70°	7.9	7.1	6.3	6.3	4.0	4.0	3.2	2.4	1.6	1.6	1.6
72.5°	5.5	4.7	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°	4.7	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°	491.6
2.5°	461.5
5°	395.0
7.5°	334.9
10°	282.6
11°	264.4
12°	247.0
13°	230.4
14°	216.9
15°	201.1
16°	186.8
17°	174.2
18°	163.9
19°	154.4
20°	144.1
21°	133.0
22°	123.5
23°	115.6
24°	108.5
25°	100.5
26°	94.2
27°	87.9
28°	81.5
29°	73.6
30°	68.1
32.5°	57.0
35°	46.7
37.5°	38.0
40°	29.3
42.5°	21.4
45°	14.2
47.5°	12.7
50°	7.9
52.5°	7.1
55°	4.7
57.5°	1.6
60°	2.4
62.5°	1.6
65°	0.8
67.5°	0.8
70°	4.7
72.5°	0.8
75°	0.8
77.5°	0.0
80°	0.8



TEST NUMBER: P108838

CATALOG NUMBER: PN3LED12NFL25930-E3LWWH

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)