

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: P106567

Luminaire Tested: **P3LED09FL40835-E3LWWH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P106567
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: P3LED09FL40835-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) 3500K 80CRI LED
Ballast/Driver: (1) 340mA ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 656.9 lumens
Efficiency: N/A
Efficacy: 45.9 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

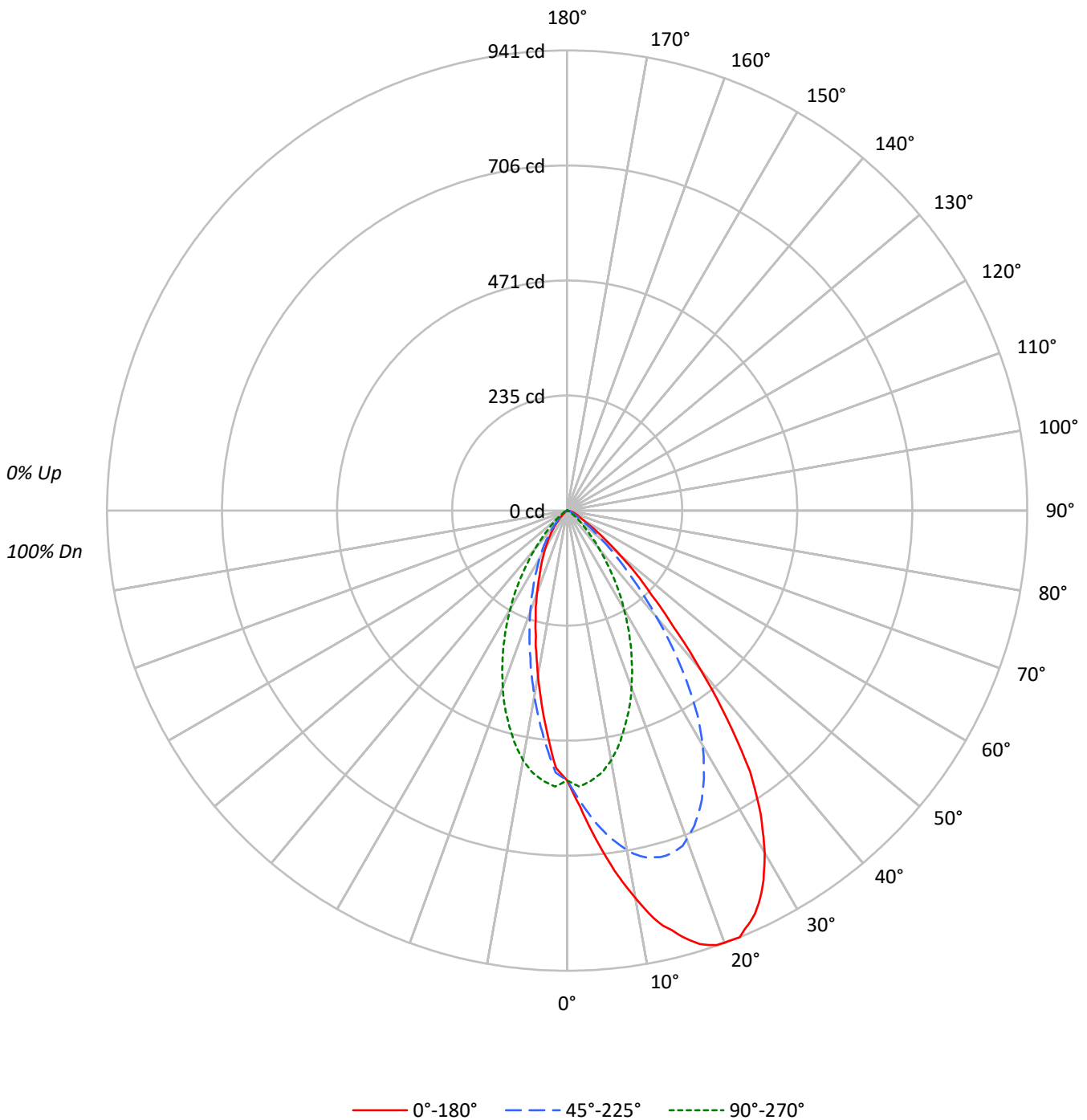
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	88849	88849	88849
5°	108983	89770	74294
10°	131738	84805	56144
15°	150275	76172	41747
20°	161208	65886	30808
25°	161582	54821	22558
30°	150310	43233	16463
35°	128328	31821	11604
40°	89107	21619	7529
45°	55797	12827	3873
50°	35164	7845	2231
55°	20588	4522	1011
60°	11793	2320	580
65°	9187	2402	1372
70°	7584	848	424
75°	6100	560	0
80°	5010	835	0
85°	1664	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	8.1
10°-20°	144.6	22.0
20°-30°	187.1	28.5
30°-40°	157.2	23.9
40°-50°	77.3	11.8
50°-60°	25.1	3.8
60°-70°	8.2	1.3
70°-80°	3.5	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°	384.8	58.6
0°-40°	542.0	82.5
0°-60°	644.4	98.1
0°-90°	656.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	656.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	552	552	552	552	552	
5°	674	637	555	484	459	68
15°	901	734	457	295	250	255
25°	909	652	308	160	127	413
35°	652	426	162	75	59	395
45°	245	170	56	24	17	198
55°	73	49	16	6	4	68
65°	24	13	6	2	4	25
75°	10	4	1	1	0	11
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°	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5
2.5°	606.0	606.0	606.0	604.2	603.3	601.5	599.8	598.0	596.2	593.5	590.8
5°	673.9	674.8	673.1	671.3	666.8	662.3	657.0	651.6	644.5	637.3	631.0
7.5°	742.8	741.0	738.3	733.8	728.5	719.5	710.6	699.0	687.4	674.8	660.5
10°	805.3	803.6	799.1	791.9	783.0	771.4	757.1	741.0	724.0	705.2	685.6
11°	828.6	825.0	821.4	813.4	803.6	788.4	775.0	755.3	735.6	715.1	691.8
12°	852.7	848.2	843.8	833.9	821.4	805.3	789.3	767.8	745.5	722.2	697.2
13°	871.5	868.8	861.7	850.9	838.4	820.5	800.9	778.5	753.5	728.5	701.7
14°	884.0	882.2	876.0	865.2	849.1	831.3	810.7	785.7	758.0	730.3	700.8
15°	901.0	899.2	892.0	879.5	864.3	843.8	820.5	793.7	764.2	733.8	701.7
16°	914.4	912.6	904.6	893.8	872.4	850.9	826.8	796.4	766.0	733.8	699.0
17°	926.9	924.2	915.3	900.1	880.4	859.0	831.3	801.8	767.8	732.9	696.3
18°	934.1	930.5	921.5	907.2	887.6	862.5	833.1	801.8	766.9	729.4	691.8
19°	939.4	934.9	925.1	909.9	889.4	862.5	832.2	798.2	761.5	724.9	684.7
20°	940.3	937.6	927.8	910.8	888.5	860.8	829.5	793.7	756.2	715.1	674.8
21°	940.3	935.8	925.1	908.1	884.9	856.3	823.2	786.6	746.4	705.2	665.0
22°	941.2	932.3	924.2	905.5	879.5	850.0	816.1	777.6	736.5	694.5	652.5
23°	929.6	925.1	913.5	895.6	869.7	839.3	805.3	764.2	724.9	681.1	637.3
24°	920.6	919.8	905.5	886.7	859.0	828.6	792.8	753.5	711.5	666.8	623.0
25°	909.0	904.6	892.0	872.4	846.5	814.3	778.5	737.4	695.4	651.6	606.0
26°	893.8	889.4	877.7	857.2	831.3	799.1	763.3	722.2	679.3	633.7	589.9
27°	876.0	870.6	859.0	840.2	811.6	779.4	743.7	703.4	660.5	615.9	570.3
28°	855.4	850.9	838.4	817.9	791.0	759.8	723.1	682.0	640.0	595.3	550.6
29°	831.3	826.8	816.1	795.5	770.5	739.2	700.8	660.5	619.4	575.6	531.8
30°	808.0	805.3	794.6	774.1	746.4	716.0	678.4	640.0	598.0	554.2	510.4
32.5°	736.5	732.0	722.2	703.4	678.4	648.0	614.1	576.5	536.3	496.1	455.0
35°	652.5	645.3	633.7	616.7	592.6	564.9	533.6	498.8	463.9	426.4	389.7
37.5°	538.1	535.4	525.6	510.4	492.5	467.5	444.2	414.7	384.3	354.0	323.6
40°	423.7	420.1	413.8	403.1	390.6	374.5	354.0	331.6	309.3	285.1	261.9
42.5°	321.8	320.9	315.5	309.3	299.4	286.9	272.6	256.5	241.3	223.5	204.7
45°	244.9	244.0	240.4	235.1	227.0	218.1	206.5	194.9	182.3	169.8	156.4
47.5°	191.3	186.8	184.1	178.8	172.5	164.5	157.3	147.5	138.5	127.8	117.1
50°	140.3	139.4	136.8	133.2	127.8	122.5	117.1	109.0	101.9	93.9	87.6
52.5°	100.1	101.9	100.1	96.5	94.7	88.5	84.9	79.6	74.2	67.9	61.7
55°	73.3	72.4	71.5	69.7	67.0	64.4	61.7	58.1	53.6	49.2	44.7
57.5°	47.4	46.5	47.4	44.7	42.9	42.9	38.4	36.6	32.2	29.5	28.6
60°	36.6	35.8	34.9	34.0	32.2	31.3	29.5	26.8	25.0	22.3	21.5
62.5°	28.6	28.6	27.7	26.8	25.9	24.1	23.2	21.5	19.7	17.9	15.2
65°	24.1	23.2	23.2	22.3	21.5	20.6	18.8	17.9	15.2	13.4	13.4
67.5°	20.6	17.9	18.8	17.0	16.1	16.1	14.3	11.6	10.7	8.9	8.9
70°	16.1	16.1	16.1	16.1	14.3	13.4	11.6	13.4	10.7	8.9	8.0
72.5°	14.3	13.4	14.3	14.3	12.5	11.6	10.7	10.7	8.0	7.2	7.2
75°	9.8	8.9	10.7	8.0	8.0	7.2	5.4	5.4	6.3	4.5	4.5
77.5°	6.3	6.3	6.3	6.3	5.4	5.4	5.4	3.6	3.6	2.7	1.8
80°	5.4	5.4	6.3	4.5	4.5	4.5	3.6	4.5	2.7	2.7	2.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
82.5°	1.8	2.7	2.7	1.8	2.7	2.7	1.8	1.8	0.9	0.9	1.8
85°	0.9	1.8	0.9	0.0	2.7	0.9	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.0	0.9	0.9	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°	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5	551.5
2.5°	588.1	584.6	581.9	579.2	574.7	571.2	568.5	564.9	549.7	536.3	528.3
5°	621.2	612.3	603.3	592.6	584.6	574.7	564.9	555.1	515.7	484.5	465.7
7.5°	647.1	631.0	615.9	601.5	586.4	570.3	554.2	540.8	479.1	434.4	408.5
10°	665.0	642.7	622.1	600.7	579.2	557.8	537.2	518.4	440.7	385.2	353.1
11°	668.6	644.5	621.2	597.1	573.8	551.5	528.3	506.8	423.7	365.6	333.4
12°	672.2	646.2	620.3	593.5	567.6	542.6	520.2	496.1	408.5	347.7	313.7
13°	673.1	644.5	616.7	588.1	561.3	533.6	508.6	483.6	391.5	329.8	295.0
14°	669.5	639.1	608.7	578.3	550.6	522.0	494.3	469.3	372.7	310.2	275.3
15°	669.5	635.5	605.1	572.1	542.6	512.2	483.6	456.7	358.4	295.0	261.0
16°	665.0	630.2	597.1	564.0	530.9	499.7	469.3	442.4	341.4	279.8	245.8
17°	659.6	623.9	589.9	555.1	521.1	487.1	457.6	429.9	326.2	263.7	231.5
18°	653.4	615.9	579.2	543.5	507.7	474.6	444.2	415.6	311.9	249.4	215.4
19°	644.5	603.3	566.7	530.0	495.2	460.3	429.9	401.3	297.6	234.2	202.0
20°	633.7	593.5	555.1	515.7	480.0	446.0	414.7	384.3	281.6	219.9	188.6
21°	623.0	579.2	539.9	500.5	464.8	429.9	398.6	369.2	266.4	206.5	177.0
22°	608.7	566.7	526.5	487.1	450.5	415.6	385.2	354.9	253.0	194.9	165.4
23°	593.5	549.7	510.4	471.9	434.4	398.6	367.4	337.9	236.9	181.4	153.7
24°	578.3	535.4	493.4	455.0	417.4	384.3	353.1	323.6	225.2	169.8	143.0
25°	563.1	518.4	479.1	438.9	401.3	368.3	337.0	308.4	211.8	160.0	133.2
26°	546.1	500.5	462.1	422.8	385.2	352.2	321.8	292.3	200.2	149.3	126.0
27°	526.5	482.7	444.2	404.0	369.2	334.3	305.7	278.0	186.8	138.5	117.1
28°	507.7	465.7	425.5	386.1	352.2	318.2	289.6	261.9	175.2	129.6	108.2
29°	490.7	446.9	407.6	370.9	334.3	302.1	273.5	247.6	163.6	120.7	101.0
30°	469.3	427.3	388.8	352.2	318.2	286.9	257.4	232.4	152.8	113.5	94.7
32.5°	414.7	375.4	338.8	304.8	273.5	243.1	219.0	197.5	126.9	93.0	77.8
35°	352.2	317.3	287.8	257.4	228.8	203.8	181.4	161.8	101.0	75.1	62.6
37.5°	294.1	263.7	236.9	210.9	186.8	165.4	146.6	129.6	79.6	59.0	48.3
40°	238.7	213.6	190.4	169.8	151.1	131.4	116.2	102.8	61.7	46.5	39.3
42.5°	185.9	167.1	149.3	131.4	115.3	101.0	87.6	76.9	47.4	34.0	28.6
45°	142.1	126.9	112.6	100.1	85.8	74.2	64.4	56.3	34.9	24.1	18.8
47.5°	106.4	94.7	85.8	74.2	65.2	56.3	49.2	42.0	26.8	18.8	13.4
50°	77.8	70.6	61.7	52.7	45.6	40.2	35.8	31.3	19.7	11.6	7.2
52.5°	55.4	48.3	43.8	39.3	33.1	28.6	24.1	21.5	13.4	7.2	7.2
55°	39.3	34.9	31.3	27.7	22.3	19.7	17.9	16.1	9.8	6.3	4.5
57.5°	23.2	20.6	16.1	13.4	11.6	10.7	8.9	7.2	1.8	0.0	0.0
60°	18.8	16.1	15.2	12.5	10.7	9.8	8.9	7.2	4.5	2.7	2.7
62.5°	14.3	12.5	11.6	10.7	9.8	8.9	8.0	6.3	3.6	2.7	2.7
65°	11.6	10.7	8.9	8.0	7.2	6.3	4.5	6.3	2.7	1.8	0.9
67.5°	7.2	4.5	4.5	3.6	2.7	2.7	2.7	0.9	0.0	0.0	0.0
70°	7.2	6.3	7.2	4.5	4.5	3.6	2.7	1.8	1.8	0.0	0.0
72.5°	5.4	4.5	5.4	3.6	3.6	2.7	2.7	1.8	0.9	1.8	1.8
75°	4.5	3.6	3.6	1.8	2.7	1.8	0.0	0.9	1.8	0.9	0.9
77.5°	2.7	0.9	1.8	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.9
80°	2.7	2.7	1.8	1.8	0.9	1.8	3.6	0.9	0.9	0.9	1.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	112.5°	135°	157.5°
82.5°	0.9	0.0	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9
85°	1.8	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.9	0.0	0.9
87.5°	0.0	0.0	0.9	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°	551.5
2.5°	526.5
5°	459.4
7.5°	398.6
10°	343.2
11°	321.8
12°	302.1
13°	285.1
14°	264.6
15°	250.3
16°	233.3
17°	219.9
18°	207.4
19°	192.2
20°	179.7
21°	167.1
22°	156.4
23°	144.8
24°	135.0
25°	126.9
26°	118.9
27°	109.9
28°	102.8
29°	95.6
30°	88.5
32.5°	72.4
35°	59.0
37.5°	45.6
40°	35.8
42.5°	25.9
45°	17.0
47.5°	12.5
50°	8.9
52.5°	4.5
55°	3.6
57.5°	0.0
60°	1.8
62.5°	2.7
65°	3.6
67.5°	0.0
70°	0.9
72.5°	0.9
75°	0.0
77.5°	0.0
80°	0.0



TEST NUMBER: P106567

CATALOG NUMBER: P3LED09FL40835-E3LWWH

CANDELA DISTRIBUTION (continued):

	180°
82.5°	0.9
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)