

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: INVUE

Report Number: P180158

Luminaire Tested: **ICM-E01-LED-E1-5XQ**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180158  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICM-E01-LED-E1-5XQ  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (21) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2958.5 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G1

Input Watts (W): 24.7  
Input Voltage (V): NR  
Input Current (Ain): 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

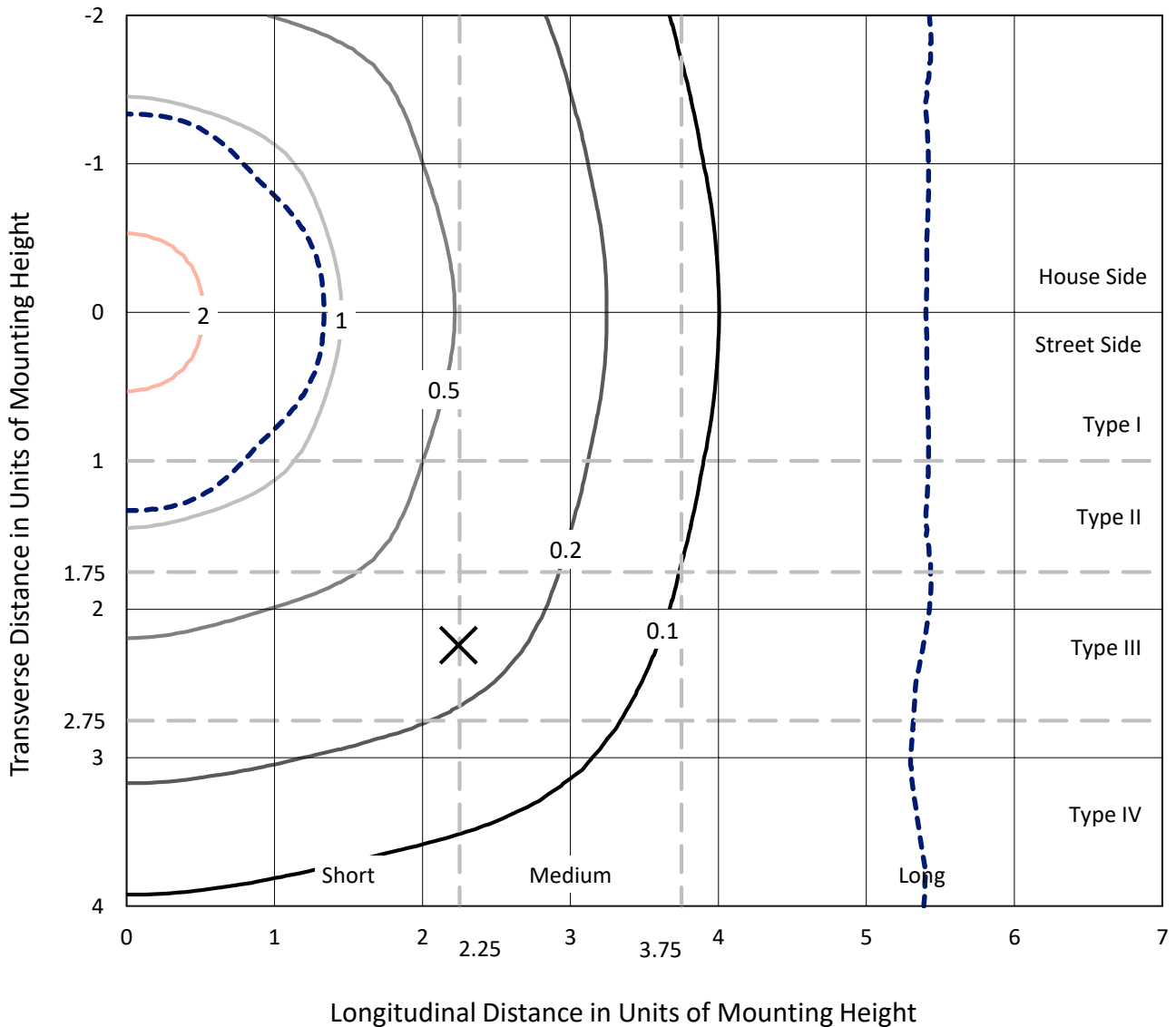


REPORT NUMBER: P180158

CATALOG NUMBER: ICM-E01-LED-E1-5XQ

### Iso-Footcandle Lines of Horizontal Illumination

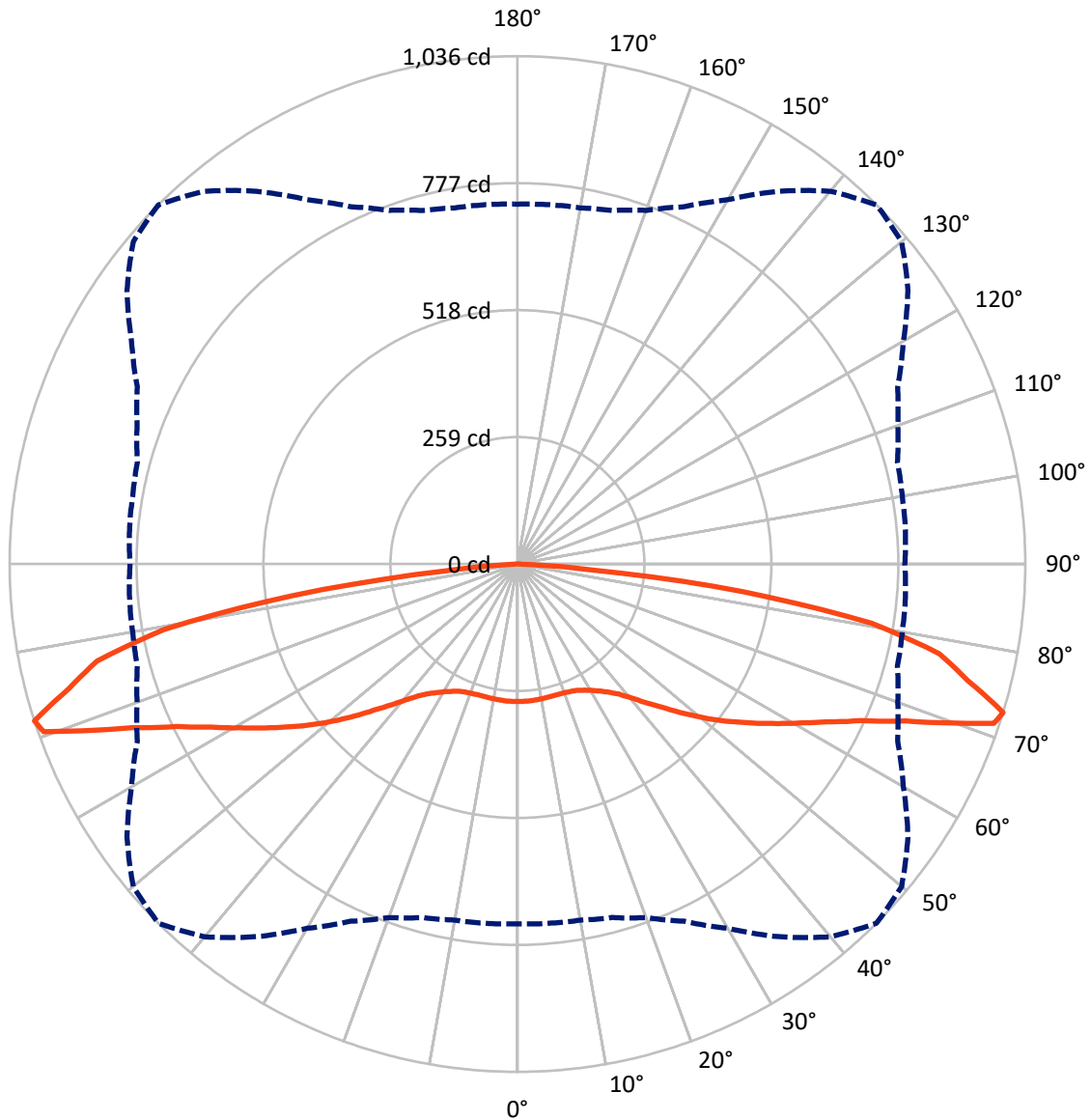
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.8 fc  
 Type V - Short - Non-Cutoff

REPORT NUMBER: P180158  
CATALOG NUMBER: ICM-E01-LED-E1-5XQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P180158

CATALOG NUMBER: ICM-E01-LED-E1-5XQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1479.3	0.0	1479.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1479.3	0.0	1479.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	2958.5	0.0	2958.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.7	0.9
10°-20°	79.0	2.7
20°-30°	132.3	4.5
30°-40°	201.7	6.8
40°-50°	322.1	10.9
50°-60°	495.3	16.7
60°-70°	721.2	24.4
70°-80°	812.4	27.5
80°-90°	167.7	5.7
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°-90°	2958.5	100.0
0°-180°	2958.5	100.0



REPORT NUMBER: P180158

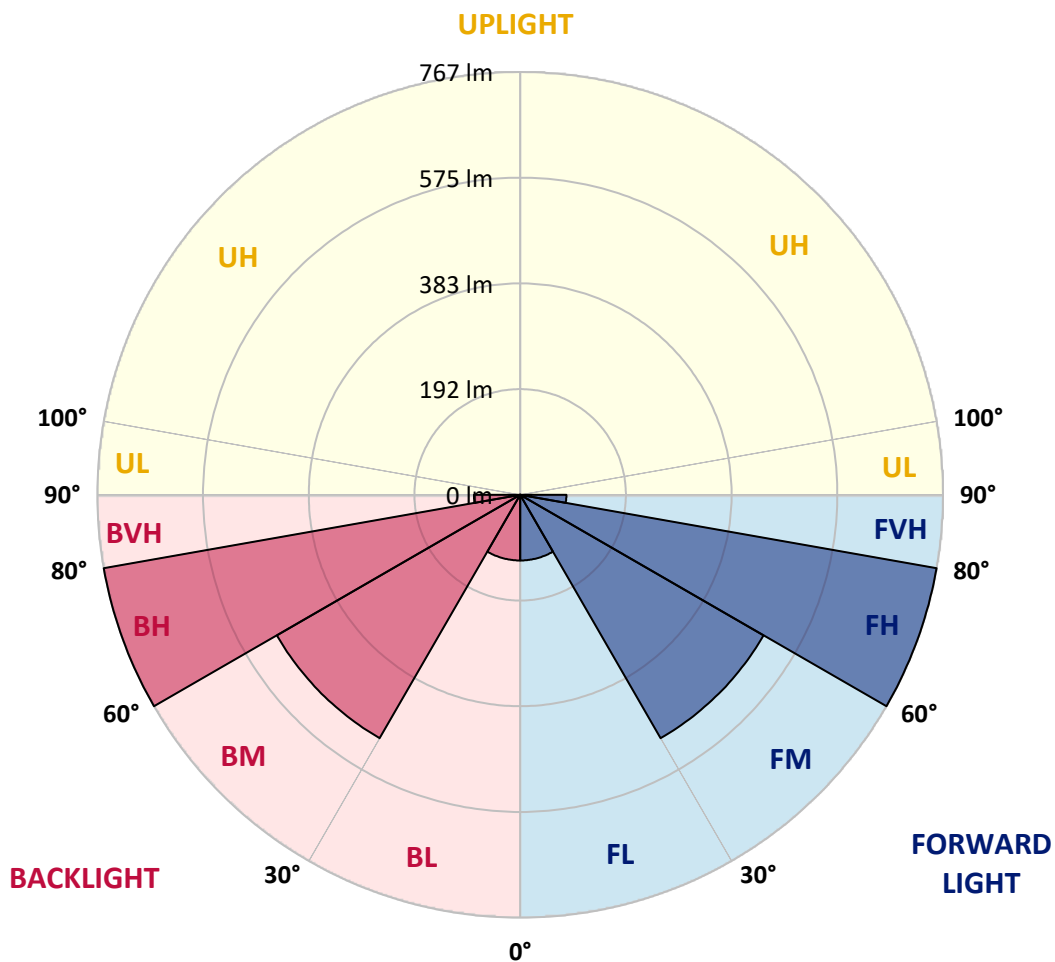
CATALOG NUMBER: ICM-E01-LED-E1-5XQ

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	119.0	4.0			
FM (30°-60°)	509.6	17.2			
FH (60°-80°)	766.8	25.9			G1/1800
FVH (80°-90°)	83.9	2.8			G1/100
BL (0°-30°)	119.0	4.0	B1/500		
BM (30°-60°)	509.6	17.2	B1/1000		
BH (60°-80°)	766.8	25.9	B2/1000		G1/1800
BVH (80°-90°)	83.9	2.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





REPORT NUMBER: P180158

CATALOG NUMBER: ICM-E01-LED-E1-5XQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	280.3	280.3	280.3	280.3	280.3	280.3	280.3	280.3	280.3	280.3	280.3
2.5°	280.7	280.9	280.8	280.7	280.7	280.7	280.6	280.5	280.0	280.2	280.7
5°	280.7	280.7	280.6	280.5	280.5	280.7	280.5	280.3	280.2	280.3	280.1
7.5°	280.6	280.4	280.2	280.1	280.2	280.2	280.0	279.6	279.9	279.6	279.4
10°	280.2	279.9	280.0	279.6	279.8	279.6	279.4	279.2	279.4	279.1	278.7
12.5°	280.4	279.9	279.8	279.6	279.6	279.5	279.2	278.8	278.9	278.7	278.3
15°	280.4	280.1	280.0	279.7	279.6	279.4	279.0	278.9	278.9	278.6	278.1
17.5°	280.5	280.3	280.3	279.9	279.8	279.7	279.2	278.9	279.1	278.7	278.3
20°	280.9	280.7	280.8	280.6	280.3	280.4	279.9	279.8	279.8	279.8	278.9
22.5°	281.9	281.9	282.0	282.0	281.9	282.0	281.7	281.7	281.7	281.7	281.0
25°	284.5	284.5	284.6	284.6	284.7	285.2	285.0	284.8	285.3	285.2	284.6
27.5°	289.5	289.3	289.5	289.6	290.0	290.7	290.5	290.8	291.4	291.3	290.6
30°	295.3	295.1	295.4	295.9	296.2	297.3	296.8	298.0	298.5	299.0	298.5
32.5°	303.6	303.5	304.3	304.6	305.3	306.3	306.5	307.4	308.1	308.9	308.4
35°	314.8	314.6	315.2	315.6	316.5	317.6	318.0	319.2	320.2	320.7	319.8
37.5°	331.7	331.0	331.9	332.3	332.9	333.2	334.3	335.8	336.9	336.7	336.1
40°	354.9	354.8	354.3	353.9	355.0	355.4	355.4	357.4	359.3	359.0	358.9
42.5°	381.9	381.2	380.7	380.7	381.3	381.5	383.8	385.4	386.8	387.1	386.8
45°	410.8	410.1	410.3	410.0	410.2	411.3	412.7	415.5	418.0	418.0	416.7
47.5°	442.0	439.8	441.5	439.2	440.7	441.4	444.8	449.1	453.4	454.2	453.0
50°	473.7	473.4	473.3	472.7	473.5	475.2	479.4	486.0	490.2	493.0	491.2
52.5°	508.3	507.1	506.5	505.8	506.4	509.8	515.7	521.5	528.9	532.2	529.6
55°	541.9	541.5	539.4	539.4	540.8	546.0	552.6	559.6	567.8	571.4	570.4
57.5°	576.5	574.1	573.6	572.7	575.6	580.5	588.5	601.1	609.6	613.7	611.4
60°	610.2	608.6	607.3	606.9	608.9	615.7	627.2	642.4	652.9	658.2	654.5
62.5°	646.5	645.4	643.9	642.1	646.3	655.2	669.4	686.3	701.7	708.2	702.5
65°	691.6	689.4	687.6	685.4	688.9	699.9	717.9	741.6	762.3	770.0	766.0
67.5°	739.3	737.1	737.3	735.9	742.1	757.4	780.5	812.8	840.6	853.5	845.9
70°	780.7	782.0	782.2	787.9	798.6	821.9	860.3	910.9	953.0	972.8	964.7
71°	768.6	771.1	775.1	780.9	799.4	826.9	879.4	940.7	991.0	1024.5	1013.2
72.5°	733.8	735.4	737.4	746.3	767.3	803.6	857.7	927.7	992.4	1035.6	1022.6
75°	683.5	685.0	685.8	692.0	711.0	742.8	792.3	854.4	911.4	948.3	944.7
77.5°	607.8	608.0	613.4	623.1	644.5	680.7	732.8	797.4	851.0	879.6	861.4
80°	436.5	433.5	439.1	451.5	478.0	519.6	572.9	646.6	706.1	732.8	704.7
82.5°	166.0	175.1	189.2	209.9	218.8	265.1	314.9	358.1	408.2	464.2	450.2
85°	17.9	20.1	25.2	31.3	39.4	54.6	75.4	103.0	126.9	149.2	132.4
87.5°	6.7	6.8	7.6	8.7	8.9	9.3	10.0	11.5	10.8	9.3	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P180158

CATALOG NUMBER: ICM-E01-LED-E1-5XQ

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	280.3	280.3	280.3	280.3	280.3	280.3	280.3	280.3
2.5°	280.3	280.4	280.3	280.4	280.4	280.1	280.2	280.0
5°	280.3	280.0	280.1	280.2	280.1	280.2	280.0	280.2
7.5°	279.8	279.4	279.5	279.5	279.4	279.6	279.4	279.4
10°	279.1	278.5	278.8	278.6	278.5	278.6	278.6	278.6
12.5°	278.3	278.0	278.0	278.0	278.0	278.1	278.0	278.1
15°	278.2	277.6	277.5	277.4	277.4	277.6	277.6	277.8
17.5°	278.1	277.3	277.2	277.0	277.1	277.4	277.5	277.4
20°	278.5	278.0	277.8	277.6	277.5	278.0	277.9	277.8
22.5°	280.7	279.9	279.8	279.3	279.0	279.3	279.1	279.1
25°	284.2	283.3	283.0	282.0	281.5	281.5	281.2	281.1
27.5°	290.4	289.1	288.7	288.1	287.3	287.4	286.9	286.9
30°	297.8	296.6	295.4	294.4	293.4	293.0	292.5	292.5
32.5°	307.3	305.9	304.6	303.4	302.0	301.4	300.5	300.0
35°	319.0	317.1	315.5	314.8	313.3	312.7	312.0	312.7
37.5°	335.4	333.1	332.4	331.4	330.4	329.3	329.5	329.3
40°	358.0	356.0	355.2	353.4	353.2	351.9	352.7	351.9
42.5°	386.0	382.2	381.8	380.3	379.8	379.2	379.4	378.9
45°	416.4	413.1	412.5	410.2	410.3	408.7	409.3	409.3
47.5°	450.7	447.3	444.4	442.7	442.0	441.1	441.7	441.5
50°	486.0	481.3	478.1	475.0	473.6	474.0	472.8	474.8
52.5°	524.0	517.0	512.5	509.5	506.8	507.4	507.5	508.1
55°	563.4	554.3	547.8	543.9	541.5	541.6	542.3	542.9
57.5°	602.9	591.6	582.8	576.9	575.4	576.0	576.0	576.0
60°	643.9	630.4	619.0	612.3	611.0	610.5	613.6	612.6
62.5°	687.9	671.7	659.9	651.4	649.4	650.8	653.5	652.8
65°	746.2	723.9	708.7	700.3	696.8	698.2	701.9	701.7
67.5°	821.5	790.2	770.1	759.3	756.8	758.5	760.6	762.4
70°	934.1	889.4	860.7	837.2	827.2	825.2	827.2	827.3
71°	973.8	922.3	876.7	848.0	831.4	824.5	825.0	821.6
72.5°	972.1	908.7	855.4	825.3	802.4	796.8	794.1	790.0
75°	906.6	849.5	803.2	770.5	748.4	741.8	736.9	736.7
77.5°	822.2	780.1	729.0	694.3	667.4	656.6	651.6	651.4
80°	660.9	598.0	560.6	539.7	507.2	497.9	487.9	484.2
82.5°	399.7	312.4	254.0	225.7	210.0	172.9	155.2	146.8
85°	93.1	66.1	45.6	30.0	21.6	17.1	13.2	11.6
87.5°	6.3	4.9	4.4	3.5	2.7	2.6	1.7	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)