

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: McGRAW-EDISON

Report Number: P530253

Luminaire Tested: **GALN-SA5C-727-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530253  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-727-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15359 lumens  
Efficiency: N/A  
Efficacy: 57.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

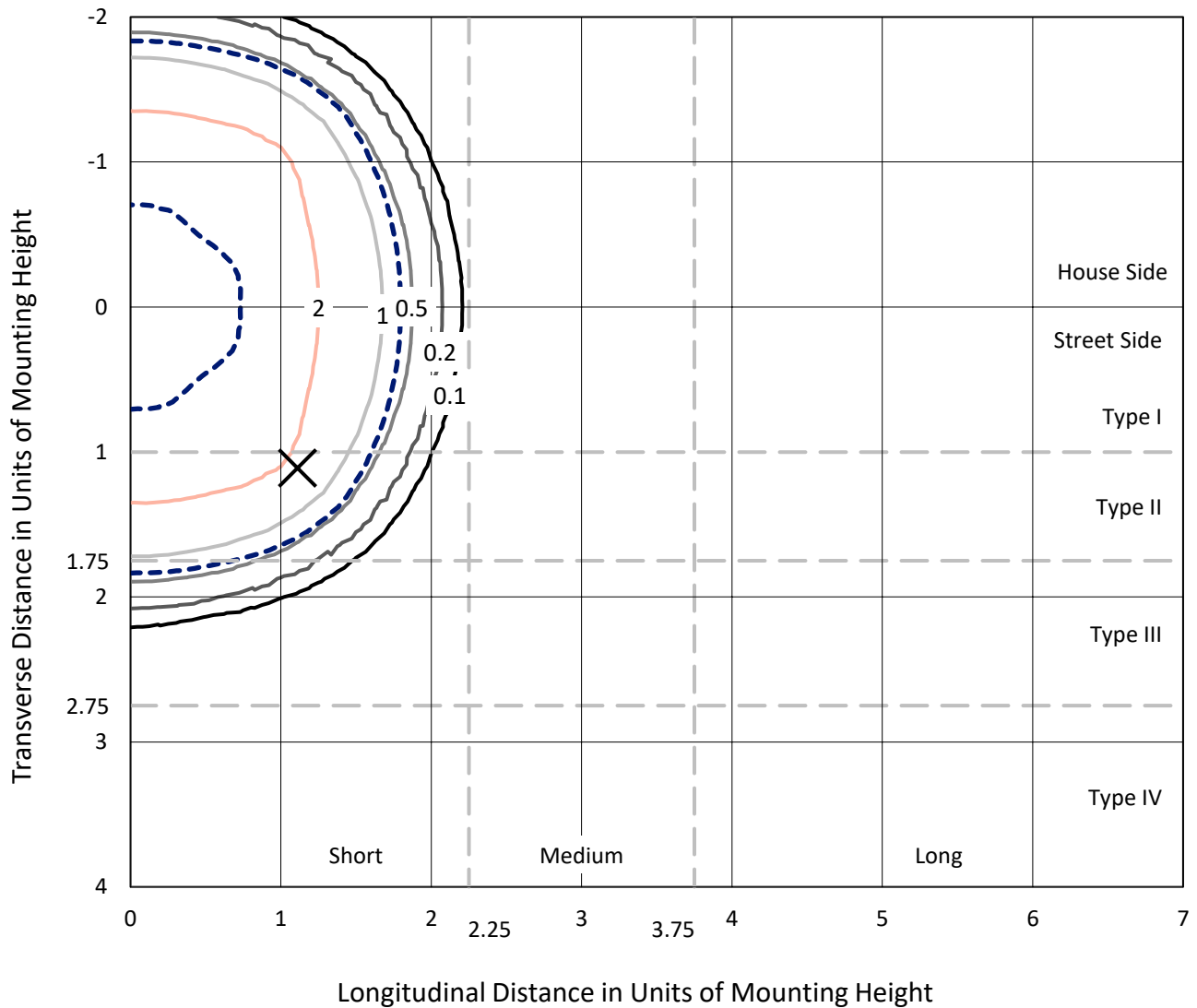
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

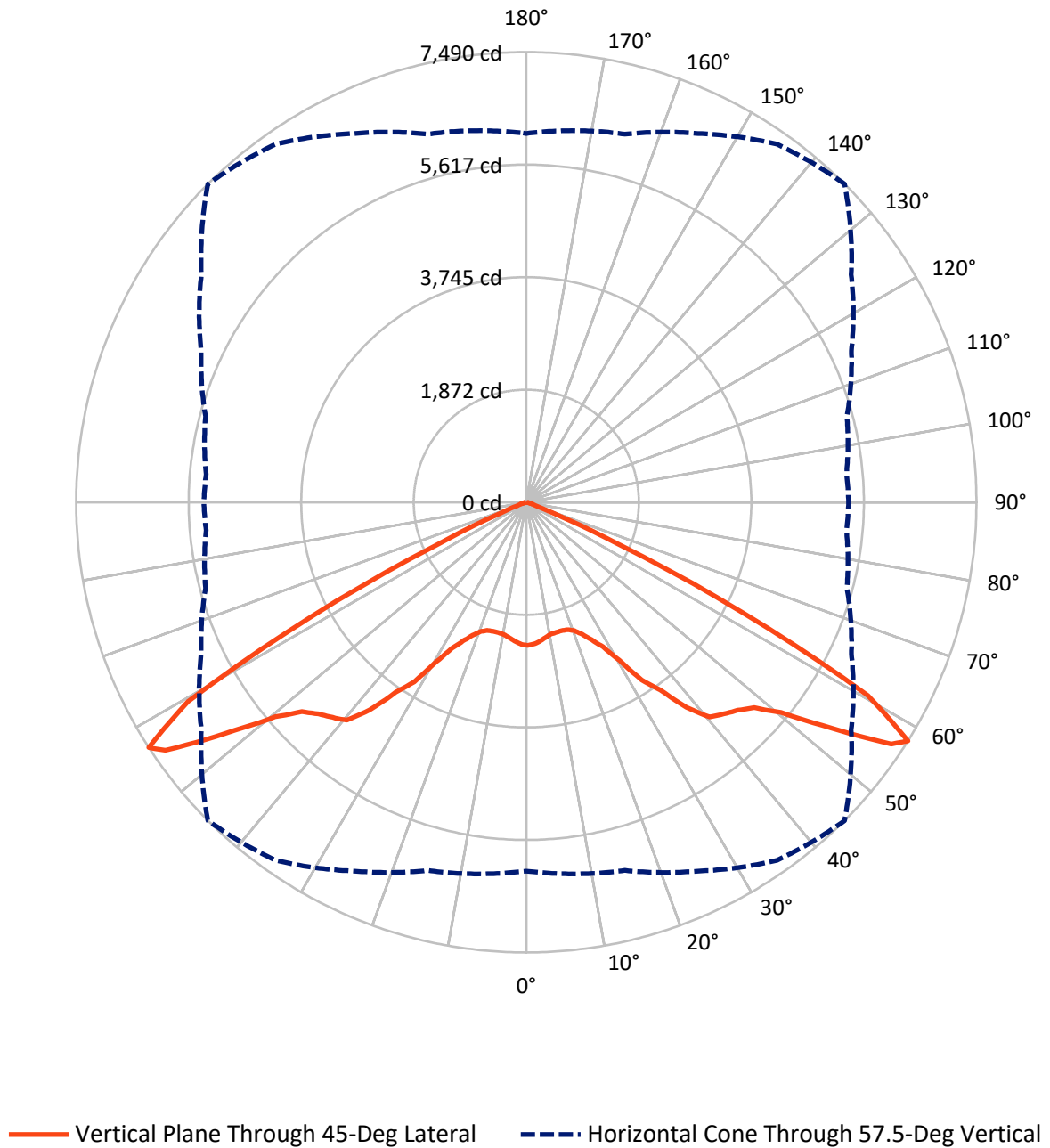
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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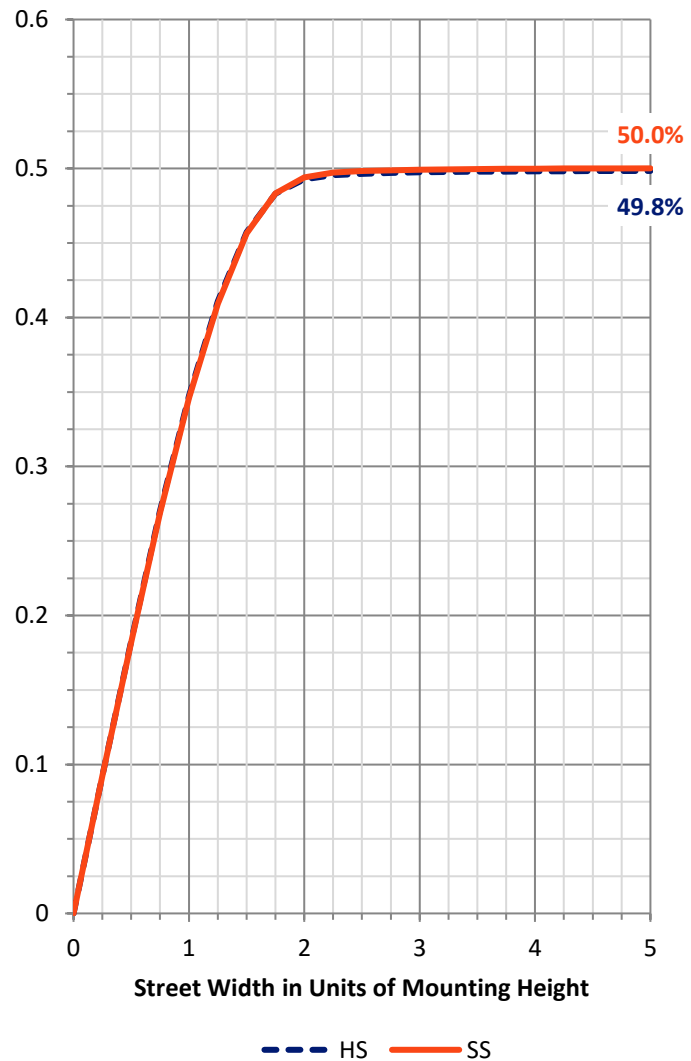
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7679.5	0.0	7679.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7679.5	0.0	7679.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15359.0	0.0	15359.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.9	1.4
10°-20°	632.8	4.1
20°-30°	1168.1	7.6
30°-40°	2297.1	15.0
40°-50°	3741.4	24.4
50°-60°	5335.7	34.7
60°-70°	1847.3	12.0
70°-80°	99.1	0.6
80°-90°	18.6	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°-90°	15359.0	100.0
0°-180°	15359.0	100.0



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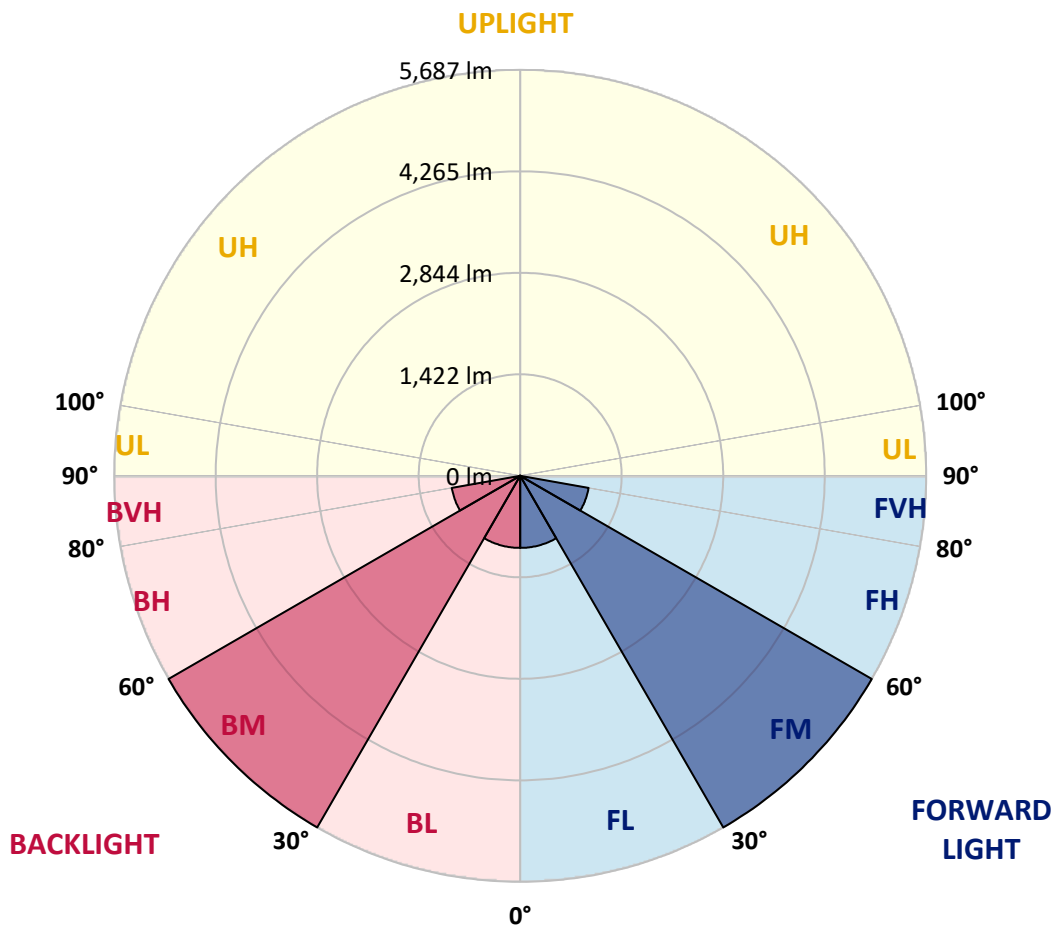
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1009.9	6.6			
FM (30°-60°)	5687.1	37.0			
FH (60°-80°)	973.2	6.3			G1/1800
FVH (80°-90°)	9.3	0.1			G0/10
BL (0°-30°)	1009.9	6.6	B3/2500		
BM (30°-60°)	5687.1	37.0	B4/8500		
BH (60°-80°)	973.2	6.3	B2/1000		G1/1800
BVH (80°-90°)	9.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3	2382.3
2.5°	2375.9	2388.7	2372.7	2366.3	2363.1	2363.1	2353.5	2353.5	2350.3	2353.5	2340.7
5°	2337.5	2350.3	2350.3	2347.1	2327.9	2324.7	2315.1	2308.7	2311.9	2299.1	2308.7
7.5°	2299.1	2308.7	2295.9	2292.7	2286.3	2273.5	2270.3	2241.5	2244.7	2244.7	2251.1
10°	2292.7	2289.5	2270.3	2254.3	2235.0	2231.8	2222.2	2215.8	2215.8	2212.6	2222.2
12.5°	2292.7	2276.7	2273.5	2238.2	2206.2	2219.0	2193.4	2177.4	2199.8	2206.2	2219.0
15°	2289.5	2305.5	2251.1	2235.0	2212.6	2215.8	2193.4	2177.4	2190.2	2196.6	2206.2
17.5°	2308.7	2299.1	2283.1	2251.1	2241.5	2228.6	2199.8	2187.0	2187.0	2203.0	2206.2
20°	2359.9	2334.3	2302.3	2286.3	2295.9	2279.9	2244.7	2196.6	2209.4	2222.2	2231.8
22.5°	2408.0	2388.7	2366.3	2356.7	2411.2	2385.5	2324.7	2270.3	2251.1	2273.5	2289.5
25°	2500.8	2500.8	2459.2	2472.0	2532.8	2536.0	2465.6	2369.5	2356.7	2366.3	2372.7
27.5°	2689.7	2699.3	2664.1	2676.9	2702.5	2725.0	2664.1	2584.1	2555.3	2552.1	2561.7
30°	2894.7	2913.9	2910.7	2965.1	3038.8	3051.6	2961.9	2830.6	2744.2	2728.2	2741.0
32.5°	3163.6	3173.3	3166.8	3230.9	3429.4	3522.3	3288.5	3102.8	2987.5	3016.4	2987.5
35°	3669.6	3660.0	3589.5	3602.3	3765.6	3832.9	3608.7	3490.3	3435.8	3493.5	3480.7
37.5°	4105.1	4069.8	4012.2	4095.5	4265.2	4326.0	4092.2	3884.1	3784.8	3880.9	3922.5
40°	4473.3	4383.6	4303.6	4386.8	4614.2	4697.4	4354.8	4185.1	4146.7	4217.1	4306.8
42.5°	4783.9	4726.3	4620.6	4627.0	4777.5	4815.9	4540.5	4441.3	4402.8	4514.9	4559.8
45°	5004.8	4950.4	4851.1	4844.7	4960.0	4934.4	4687.8	4620.6	4643.0	4716.7	4739.1
47.5°	5116.9	5145.7	5088.1	5104.1	5164.9	5104.1	4908.8	4908.8	4857.5	4902.4	4880.0
50°	5440.3	5350.7	5424.3	5424.3	5488.4	5494.8	5299.4	5229.0	5091.3	5014.4	5014.4
52.5°	5818.2	5824.6	5853.4	5959.1	6067.9	6160.8	5882.2	5581.2	5350.7	5251.4	5238.6
55°	6128.8	6192.8	6308.1	6506.6	6820.4	6948.5	6468.2	5930.2	5648.5	5494.8	5462.7
56°	6298.5	6237.6	6436.2	6708.3	7118.2	7284.7	6564.2	6000.7	5690.1	5517.2	5514.0
57.5°	6135.2	6202.4	6340.1	6769.2	7271.9	7489.6	6599.5	5968.7	5523.6	5347.5	5363.5
60°	4844.7	4908.8	5094.5	5574.8	6362.5	6532.2	5584.4	4921.6	4524.5	4271.6	4274.8
62.5°	2741.0	2789.0	2933.1	3378.2	3868.1	4031.4	3480.7	3038.8	2763.4	2622.5	2577.7
65°	1008.7	989.4	1011.9	1239.2	1540.2	1677.9	1447.3	1223.2	1079.1	1027.9	1008.7
67.5°	377.8	349.0	326.6	349.0	438.7	464.3	425.9	355.4	333.0	342.6	349.0
70°	233.8	220.9	176.1	166.5	163.3	160.1	169.7	179.3	204.9	240.2	246.6
72.5°	163.3	153.7	124.9	118.5	112.1	108.9	124.9	137.7	160.1	185.7	188.9
75°	64.0	67.2	64.0	70.4	73.6	76.8	89.7	99.3	108.9	108.9	105.7
77.5°	12.8	12.8	19.2	25.6	32.0	41.6	60.8	70.4	73.6	70.4	60.8
80°	0.0	0.0	6.4	12.8	25.6	35.2	54.4	60.8	67.2	60.8	48.0
82.5°	0.0	0.0	6.4	16.0	25.6	32.0	51.2	64.0	73.6	67.2	51.2
85°	0.0	0.0	6.4	12.8	19.2	22.4	22.4	16.0	16.0	9.6	6.4
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

(END OF REPORT)