

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: P457427

Luminaire Tested: **GALN-SA8D-730-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457427  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-730-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 56790 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

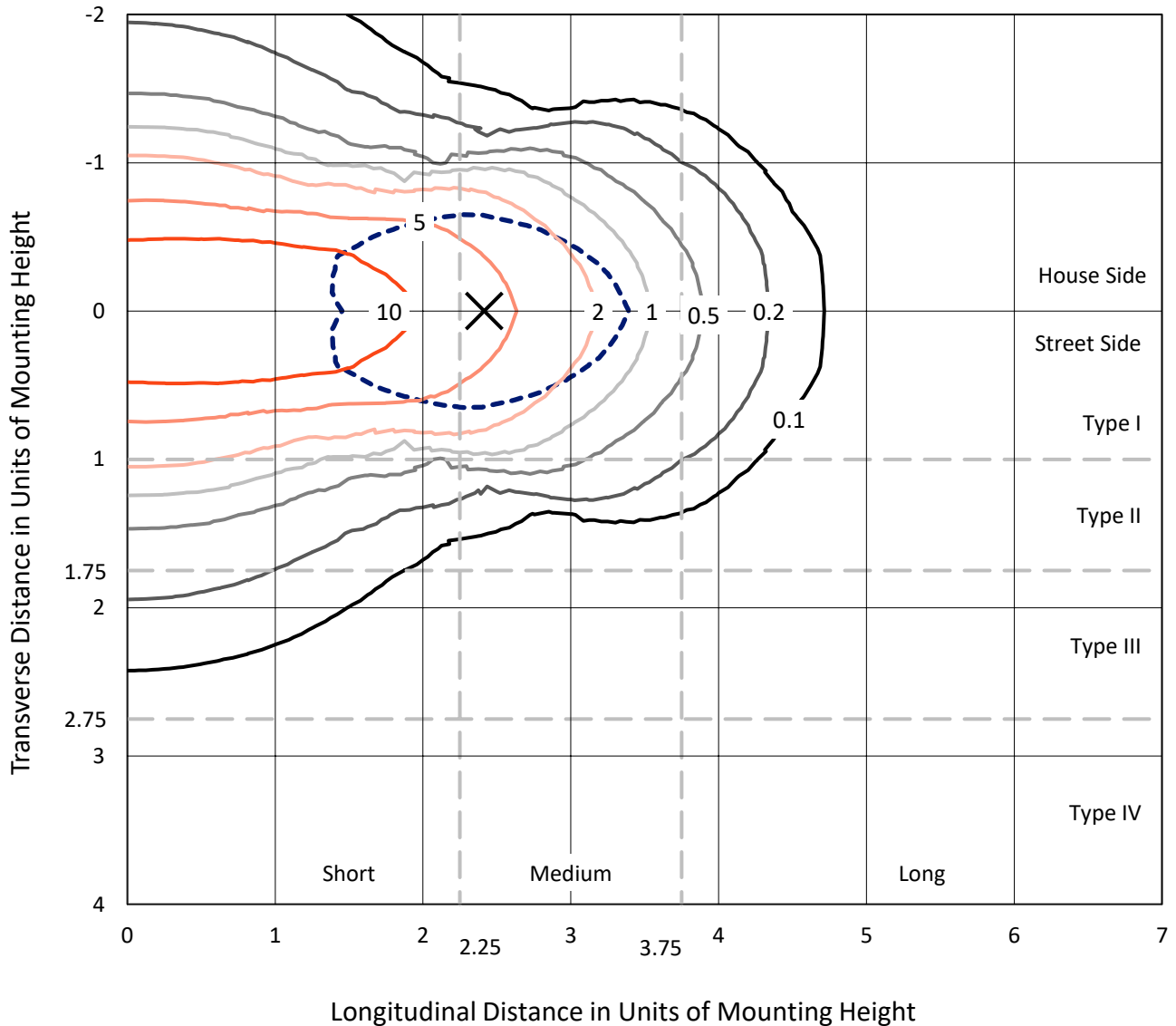
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

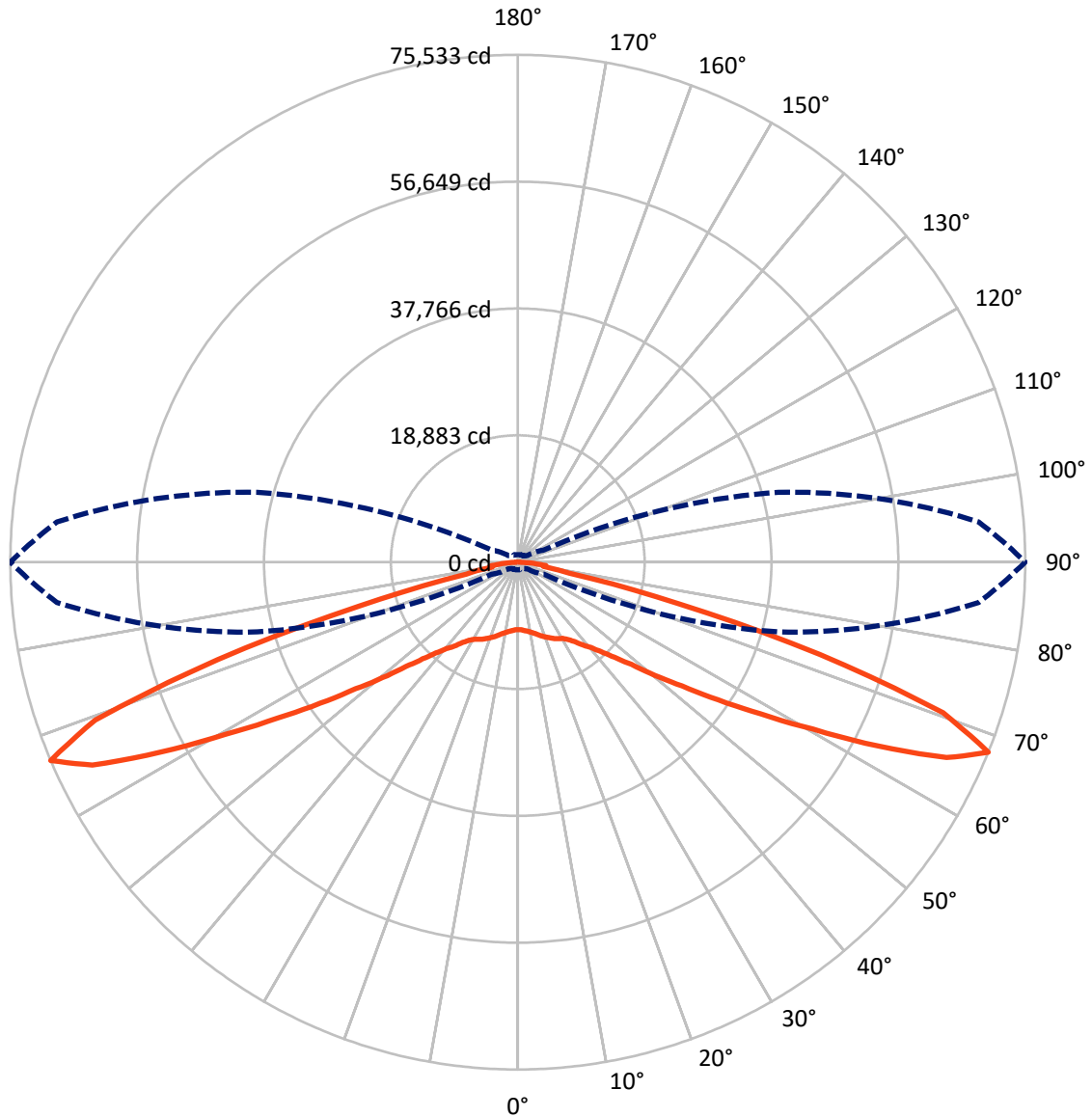
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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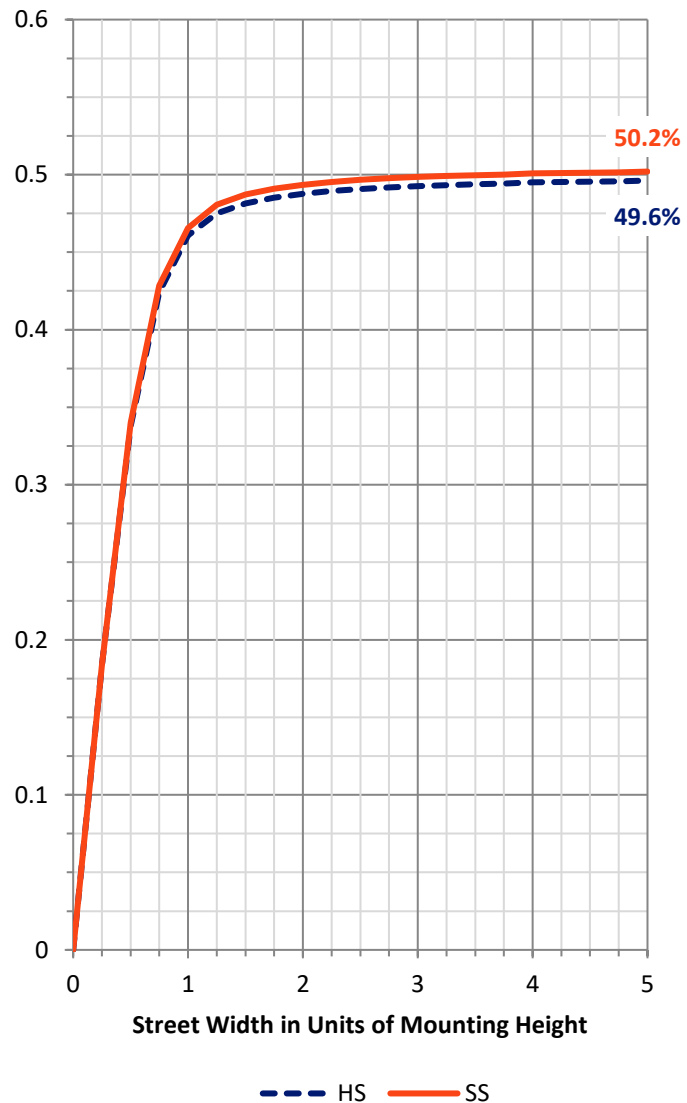
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	28395.0	0.0	28395.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	28395.0	0.0	28395.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	56790.0	0.0	56790.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1002.3	1.8
10°-20°	3207.0	5.6
20°-30°	5367.6	9.5
30°-40°	7271.7	12.8
40°-50°	9210.8	16.2
50°-60°	11506.6	20.3
60°-70°	13525.5	23.8
70°-80°	5174.1	9.1
80°-90°	524.2	0.9
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°	56790.0	100.0
0°-180°	56790.0	100.0



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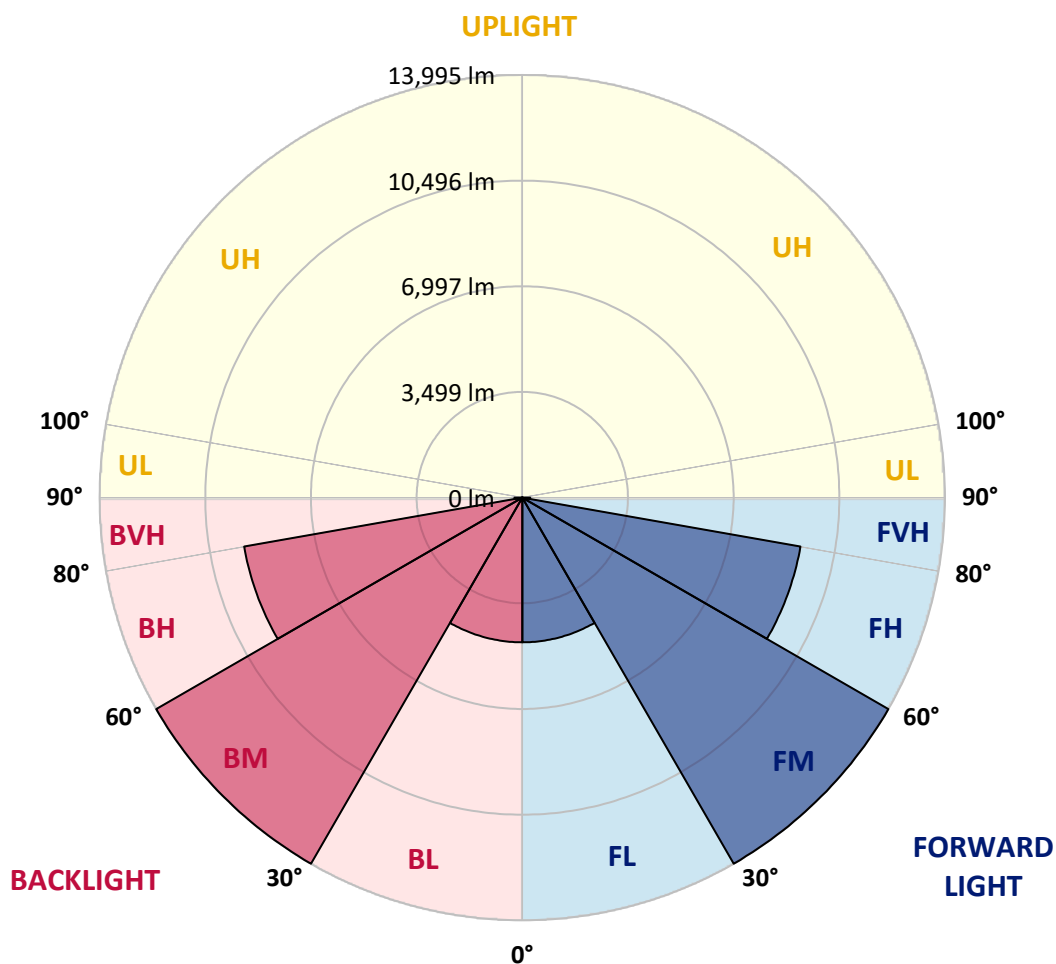
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4788.5	8.4			
FM	(30°-60°)	13994.6	24.6			
FH	(60°-80°)	9349.8	16.5			G4/12000
FVH	(80°-90°)	262.1	0.5			G3/500
BL	(0°-30°)	4788.5	8.4	B4/5000		
BM	(30°-60°)	13994.6	24.6	B5		
BH	(60°-80°)	9349.8	16.5	B5		G5
BVH	(80°-90°)	262.1	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°	
0°	10053.6	10053.6	10053.6	10053.6	10053.6	10053.6	10053.6	10053.6	10053.6	10053.6	10053.6	10053.6
2.5°	10182.5	10176.2	10179.4	10176.2	10185.7	10179.4	10141.6	10110.2	10085.0	10088.2	10078.8	10078.8
5°	10399.5	10402.7	10405.8	10390.1	10412.1	10399.5	10339.8	10289.5	10239.1	10220.3	10214.0	10214.0
7.5°	10578.8	10594.5	10603.9	10619.6	10657.4	10657.4	10625.9	10553.6	10443.5	10380.6	10377.5	10377.5
10°	10758.0	10770.6	10798.9	10849.2	10912.1	10971.8	10959.3	10861.8	10720.3	10613.4	10588.2	10588.2
12.5°	10820.9	10836.6	10931.0	11075.6	11217.1	11333.5	11333.5	11254.9	11072.5	10909.0	10861.8	10861.8
15°	10600.8	10629.1	10798.9	11107.1	11478.1	11732.9	11789.5	11679.4	11484.4	11232.9	11176.3	11176.3
17.5°	10163.7	10232.8	10481.3	10937.3	11553.6	12081.9	12245.5	12192.0	11940.4	11619.7	11553.6	11553.6
20°	9695.1	9770.6	10034.7	10638.5	11490.7	12286.3	12761.2	12773.8	12462.4	11997.0	11899.5	11899.5
22.5°	9179.4	9236.0	9575.6	10283.2	11302.0	12333.5	13204.6	13421.6	13000.2	12374.4	12236.0	12236.0
25°	8600.7	8663.6	9019.0	9783.2	10946.7	12280.0	13610.3	14088.2	13563.1	12776.9	12600.8	12600.8
27.5°	8047.3	8072.4	8452.9	9229.7	10478.1	12141.7	13909.0	14701.5	14185.7	13110.2	12887.0	12887.0
30°	7515.8	7575.6	7912.1	8679.4	9940.4	11871.2	14166.9	15399.6	14855.6	13459.3	13173.1	13173.1
32.5°	6952.9	7025.3	7390.0	8166.8	9402.6	11465.6	14324.1	16163.7	15789.5	14025.4	13720.3	13720.3
35°	6412.0	6459.2	6827.1	7581.9	8877.5	10993.9	14352.4	17025.4	16993.9	14883.9	14478.2	14478.2
37.5°	5858.6	5927.8	6298.8	7022.1	8320.9	10493.9	14210.9	17940.5	18446.8	16075.7	15638.6	15638.6
40°	5327.1	5386.9	5751.7	6481.2	7688.8	9883.8	13874.4	18777.0	20141.8	17302.1	16682.6	16682.6
42.5°	4748.5	4764.2	5163.6	5905.7	7069.3	9176.2	13390.1	19522.3	22031.8	18946.8	18176.4	18176.4
45°	4091.3	4132.1	4503.2	5232.8	6358.6	8383.8	12732.9	20138.6	24428.0	21226.7	20176.4	20176.4
47.5°	3434.0	3468.6	3808.2	4528.4	5581.8	7474.9	11720.3	20679.5	26887.2	24123.0	22745.6	22745.6
50°	2792.5	2811.4	3088.1	3726.5	4707.6	6519.0	10465.6	20852.5	29667.1	28223.7	26465.8	26465.8
52.5°	2207.6	2235.9	2446.6	2946.6	3773.6	5390.0	9110.2	20424.8	32912.4	33085.4	30607.3	30607.3
55°	1789.3	1798.8	1956.0	2323.9	2949.7	4207.6	7474.9	19233.0	36403.0	39315.0	36154.6	36154.6
57.5°	1540.9	1547.2	1635.2	1839.6	2270.5	3173.0	5798.8	16978.2	39538.3	46613.9	42550.9	42550.9
60°	1399.4	1402.5	1452.9	1572.3	1798.8	2434.0	4154.1	13795.8	42632.7	54736.6	50500.7	50500.7
62.5°	1311.3	1311.3	1345.9	1412.0	1522.0	1868.0	3009.5	9953.0	44752.2	62978.9	60299.6	60299.6
65°	1226.4	1226.4	1251.6	1298.8	1358.5	1528.3	2223.3	6490.7	44698.7	68982.1	70155.1	70155.1
67.5°	1128.9	1128.9	1147.8	1195.0	1229.6	1314.5	1717.0	4251.6	40151.5	68850.0	75532.5	75532.5
70°	1012.6	1012.6	1037.8	1078.6	1106.9	1160.4	1355.4	2908.8	29497.3	58787.0	67173.9	67173.9
72.5°	896.2	899.4	915.1	956.0	978.0	1009.4	1125.8	2037.8	18094.6	40028.9	46969.2	46969.2
75°	767.3	773.6	789.3	830.2	849.1	861.6	949.7	1452.9	9154.2	21582.1	24572.7	24572.7
77.5°	619.5	632.1	641.5	685.5	698.1	717.0	783.0	1050.3	4018.9	7754.8	7824.0	7824.0
80°	452.8	468.6	496.9	537.7	547.2	559.8	597.5	745.3	1820.8	3540.9	3846.0	3846.0
82.5°	333.3	355.4	320.8	374.2	374.2	358.5	421.4	500.0	836.5	3506.3	4195.0	4195.0
85°	182.4	185.5	166.7	191.8	204.4	201.3	223.3	245.3	405.7	2339.7	2412.0	2412.0
87.5°	44.0	47.2	50.3	59.7	72.3	72.3	78.6	69.2	132.1	757.9	434.0	434.0
90°	0.0	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)