

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: P457556

Luminaire Tested: **GALN-SA8D-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52063 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 493
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

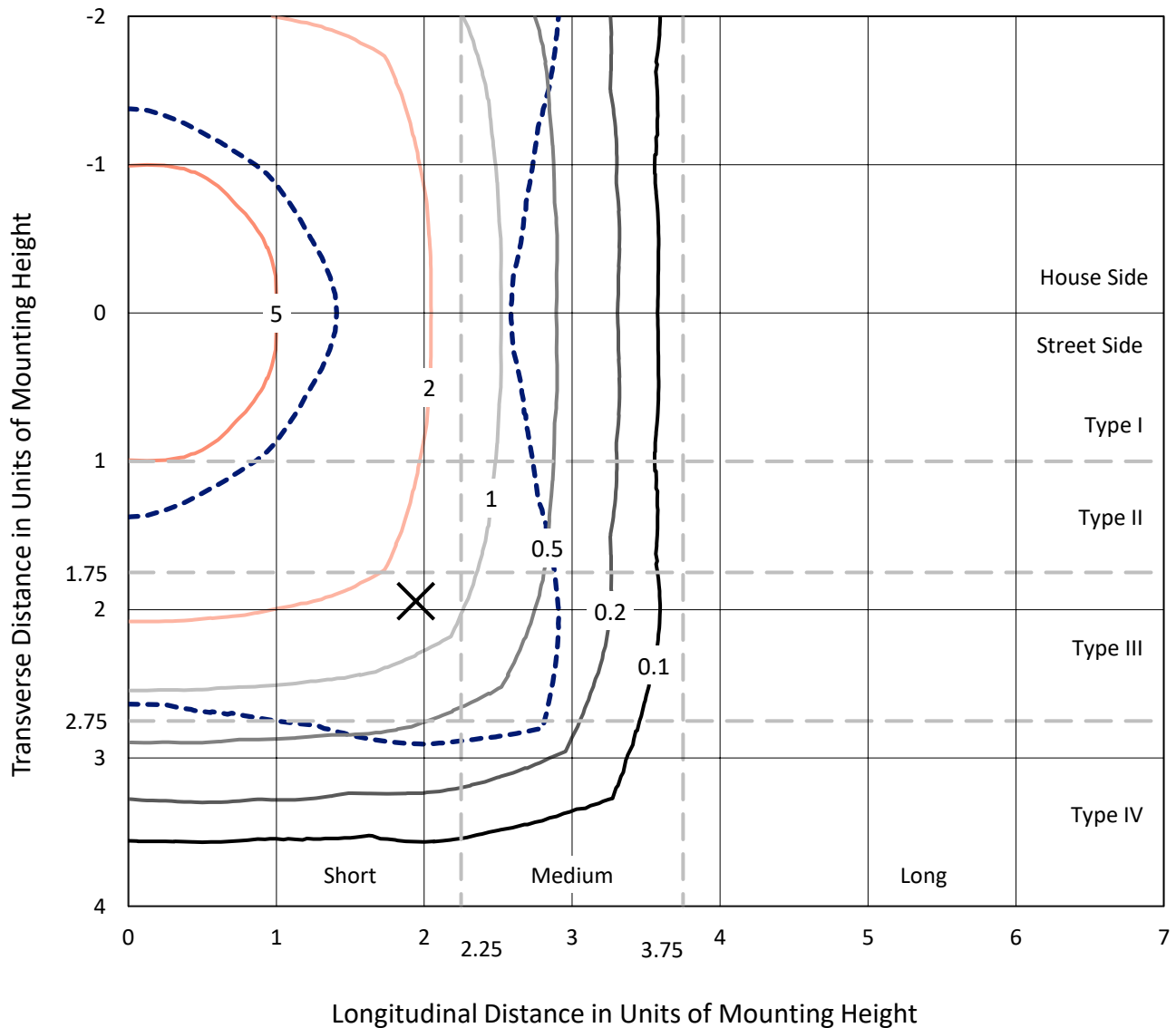


REPORT NUMBER: P457556

CATALOG NUMBER: GALN-SA8D-830-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

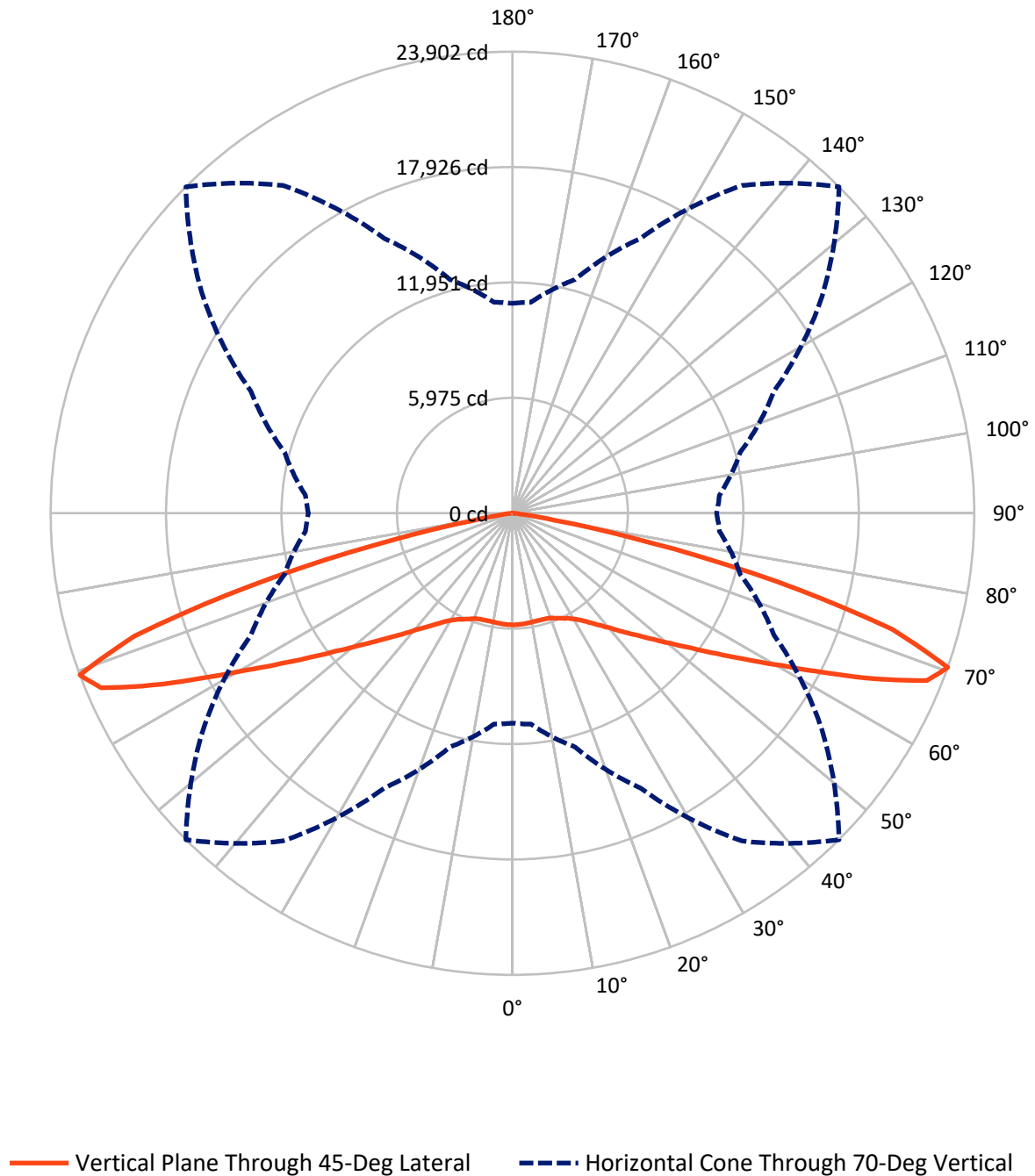


Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
Type V - Short - N/A

REPORT NUMBER: P457556

CATALOG NUMBER: GALN-SA8D-830-U-5MQ

Luminous Intensity Polar Plot



REPORT NUMBER: P457556

CATALOG NUMBER: GALN-SA8D-830-U-5MQ

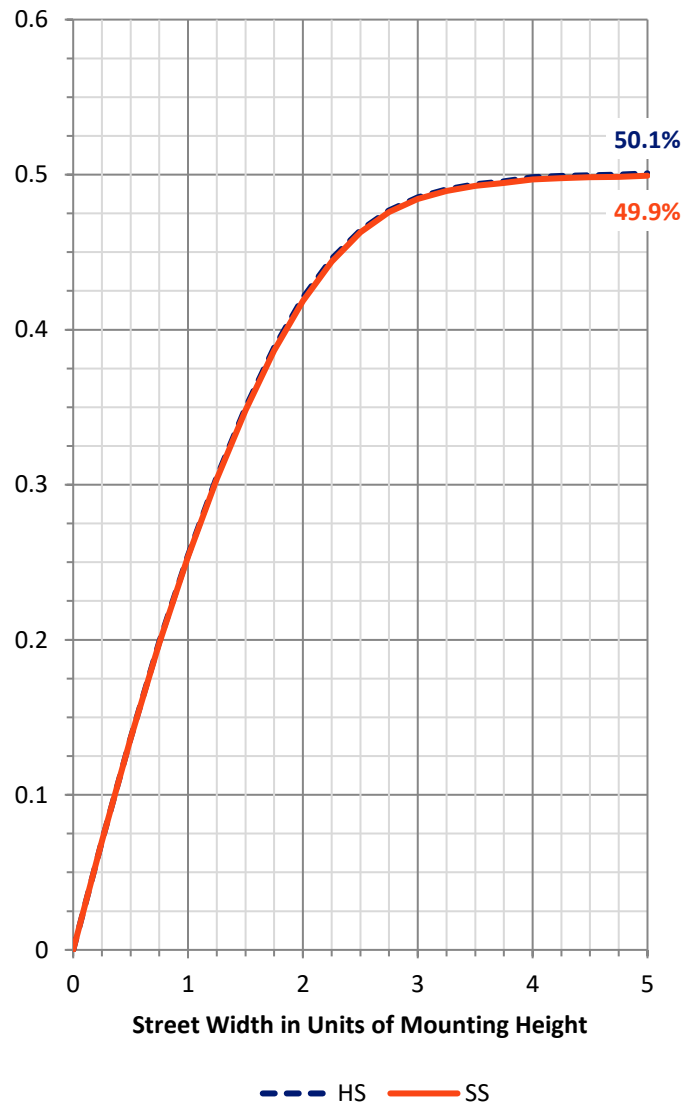
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26031.5	0.0	26031.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26031.5	0.0	26031.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	52063.0	0.0	52063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.2	1.1
10°-20°	1608.8	3.1
20°-30°	2751.5	5.3
30°-40°	4367.2	8.4
40°-50°	7045.4	13.5
50°-60°	11463.1	22.0
60°-70°	16617.3	31.9
70°-80°	7370.8	14.2
80°-90°	290.7	0.6
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°	52063.0	100.0
0°-180°	52063.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457556

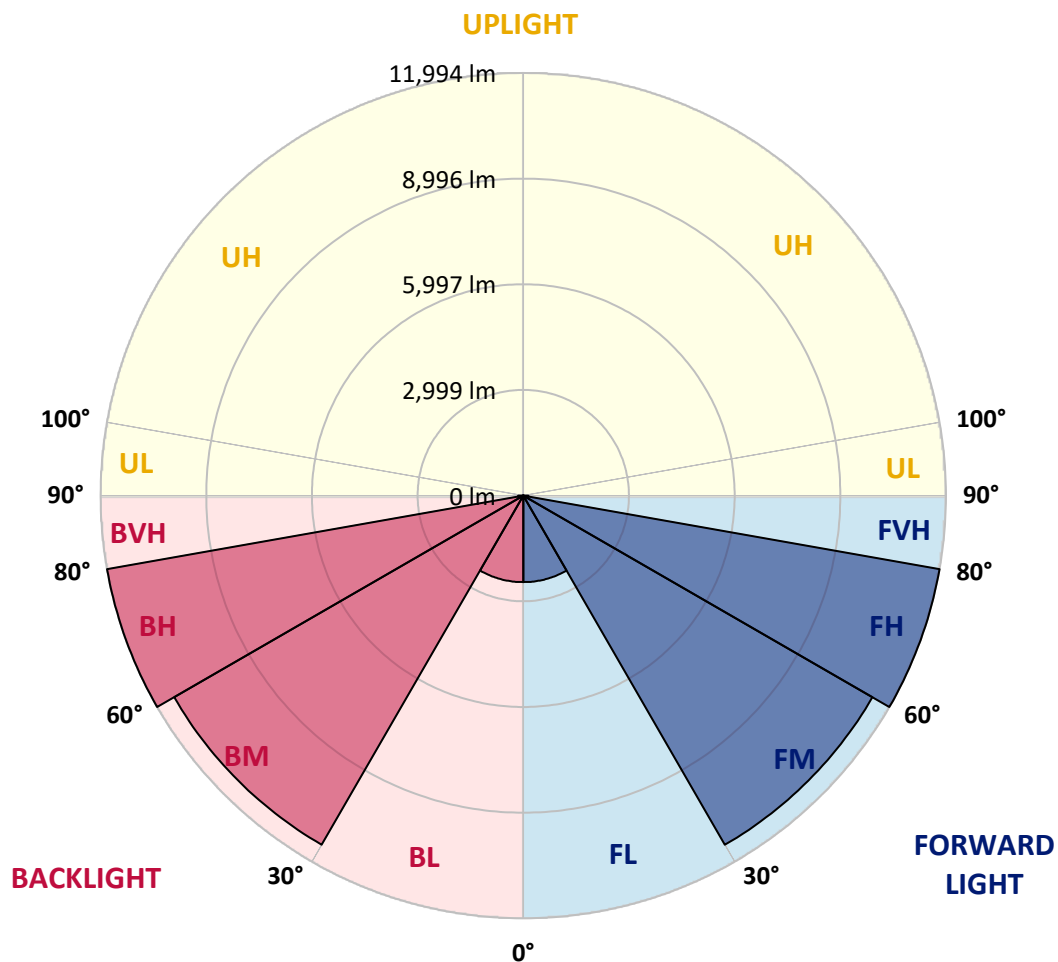
CATALOG NUMBER: GALN-SA8D-830-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2454.2	4.7			
FM	(30°-60°)	11437.8	22.0			
FH	(60°-80°)	11994.1	23.0			G4/12000
FVH	(80°-90°)	145.4	0.3			G2/225
BL	(0°-30°)	2454.2	4.7	B3/2500		
BM	(30°-60°)	11437.8	22.0	B5		
BH	(60°-80°)	11994.1	23.0	B5		G4/12000
BVH	(80°-90°)	145.4	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





REPORT NUMBER: P457556

CATALOG NUMBER: GALN-SA8D-830-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5781.4	5781.4	5781.4	5781.4	5781.4	5781.4	5781.4	5781.4	5781.4	5781.4	5781.4
2.5°	5781.4	5786.8	5778.6	5773.1	5770.4	5770.4	5767.6	5770.4	5786.8	5789.6	5781.4
5°	5764.9	5770.4	5767.6	5762.1	5759.4	5759.4	5756.7	5753.9	5767.6	5773.1	5770.4
7.5°	5742.9	5745.7	5742.9	5740.2	5742.9	5740.2	5732.0	5726.5	5737.4	5737.4	5734.7
10°	5704.5	5710.0	5707.3	5710.0	5715.5	5715.5	5704.5	5693.5	5696.3	5690.8	5690.8
12.5°	5657.9	5666.1	5668.9	5679.8	5693.5	5710.0	5685.3	5660.6	5655.1	5652.4	5649.6
15°	5627.7	5635.9	5646.9	5657.9	5682.6	5718.2	5682.6	5644.2	5633.2	5622.2	5616.7
17.5°	5619.5	5630.4	5646.9	5663.4	5696.3	5732.0	5701.8	5663.4	5635.9	5619.5	5614.0
20°	5641.4	5649.6	5674.3	5704.5	5751.2	5786.8	5756.7	5715.5	5674.3	5649.6	5641.4
22.5°	5685.3	5699.0	5729.2	5784.1	5849.9	5902.1	5860.9	5792.3	5726.5	5693.5	5682.6
25°	5781.4	5792.3	5828.0	5902.1	5978.9	6028.3	5984.4	5904.8	5814.3	5770.4	5756.7
27.5°	5926.8	5943.2	5981.7	6069.5	6132.6	6160.0	6129.8	6074.9	6009.1	5962.4	5951.5
30°	6132.6	6151.8	6209.4	6302.7	6343.8	6360.3	6346.6	6310.9	6264.3	6214.9	6203.9
32.5°	6409.7	6420.7	6486.5	6574.3	6612.7	6618.2	6601.8	6585.3	6508.5	6426.2	6420.7
35°	6719.8	6739.0	6818.5	6922.8	6958.5	6961.2	6928.3	6903.6	6813.0	6747.2	6747.2
37.5°	7131.3	7139.6	7216.4	7334.4	7372.8	7361.8	7345.4	7323.4	7227.4	7142.3	7145.1
40°	7614.3	7630.7	7696.6	7833.8	7833.8	7820.1	7831.0	7814.6	7718.5	7636.2	7639.0
42.5°	8187.7	8196.0	8275.5	8421.0	8410.0	8382.5	8393.5	8371.6	8311.2	8217.9	8185.0
45°	8799.6	8832.5	8969.7	9109.7	9087.7	8999.9	9043.8	9038.3	8983.5	8843.5	8851.8
47.5°	9537.7	9592.6	9724.3	9891.7	9867.0	9729.8	9779.2	9812.1	9735.3	9581.6	9554.2
50°	10369.1	10404.8	10599.6	10756.0	10734.1	10588.6	10701.1	10706.6	10514.5	10297.8	10297.8
52.5°	11255.4	11291.1	11554.5	11798.7	11812.4	11601.1	11691.7	11686.2	11373.4	11088.0	11033.1
55°	12248.7	12265.1	12605.4	12964.8	13041.7	12835.9	12846.8	12737.1	12331.0	11999.0	11968.8
57.5°	13274.9	13335.2	13711.2	14177.6	14405.4	14279.1	14221.5	13927.9	13535.5	13154.2	13134.9
60°	14410.8	14413.6	14902.0	15453.5	15914.5	15999.6	15763.6	15371.2	14863.6	14358.7	14336.8
62.5°	15198.3	15316.3	15933.7	16866.6	17692.5	18170.0	17547.1	16723.9	15725.2	14910.2	14827.9
65°	15360.2	15439.8	16381.0	17961.4	19648.9	20677.9	19237.3	17486.7	15782.8	14696.2	14641.3
67.5°	14051.4	14136.5	15404.1	17829.7	21020.8	23130.9	20334.9	17119.1	14806.0	13461.5	13354.5
70°	10868.5	10964.5	12531.3	15695.0	20716.3	23901.9	19552.9	14932.2	12210.3	10758.7	10563.9
72.5°	5778.6	6132.6	7471.6	10772.5	16814.5	20579.1	16032.5	10895.9	7874.9	6437.1	6179.2
75°	2110.0	2153.9	2900.3	4777.1	9781.9	14111.8	10157.8	5196.9	2988.1	2307.6	2189.6
77.5°	872.6	869.8	954.9	1443.3	3553.3	7227.4	3964.9	1525.6	952.1	880.8	869.8
80°	515.8	515.8	568.0	600.9	935.7	2181.4	1045.4	680.5	570.7	521.3	529.6
82.5°	230.5	244.2	359.4	378.7	452.7	598.2	504.9	433.5	373.2	257.9	233.2
85°	126.2	109.8	189.3	197.6	216.8	222.3	238.7	236.0	216.8	126.2	129.0
87.5°	24.7	30.2	54.9	41.2	46.6	41.2	54.9	76.8	79.6	43.9	35.7
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)