

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: P454772

Luminaire Tested: **GALN-SA5D-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454772
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-SA5D-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 32288 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 309
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: 24 FT

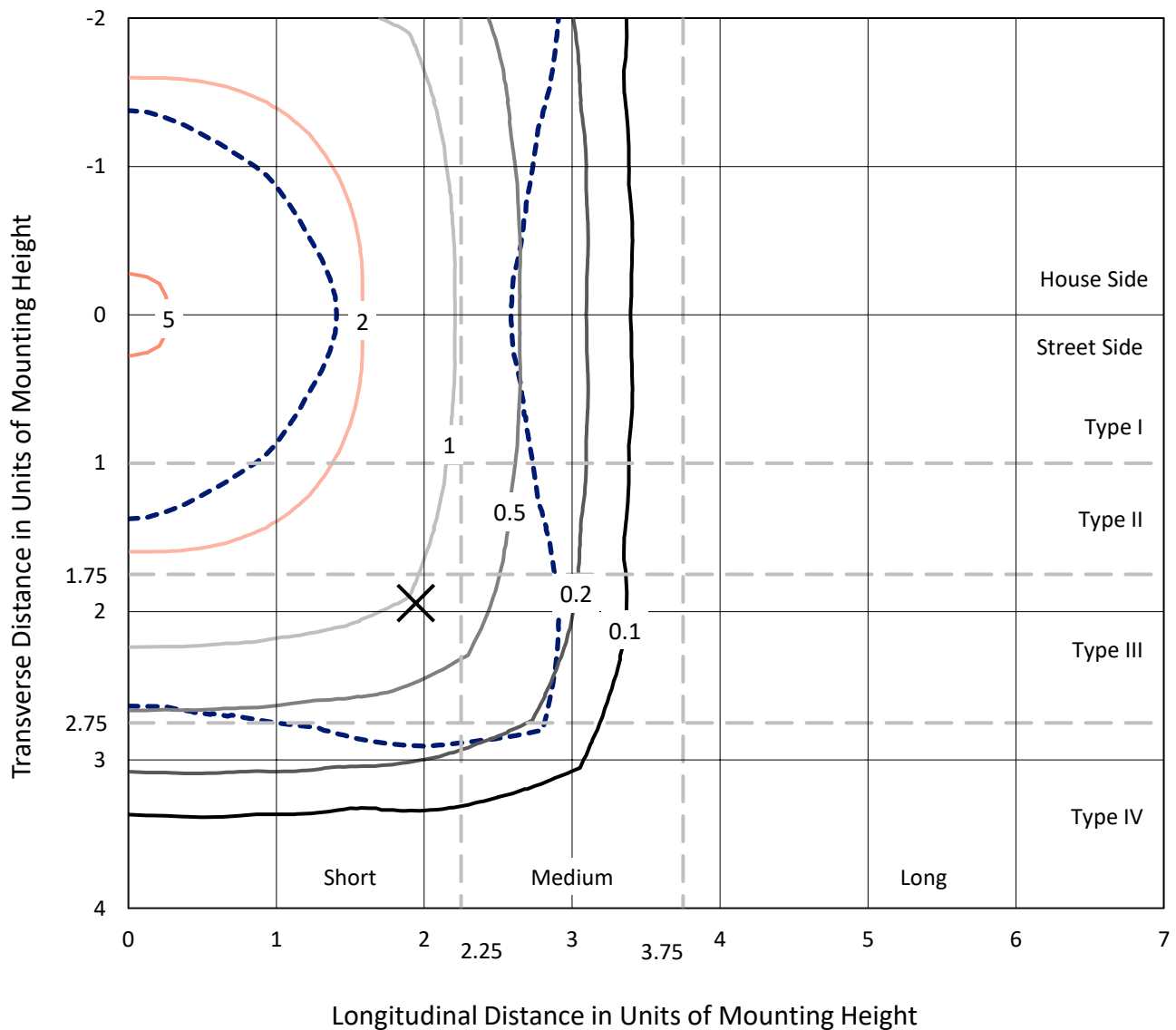


REPORT NUMBER: P454772

CATALOG NUMBER: GALN-SA5D-830-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

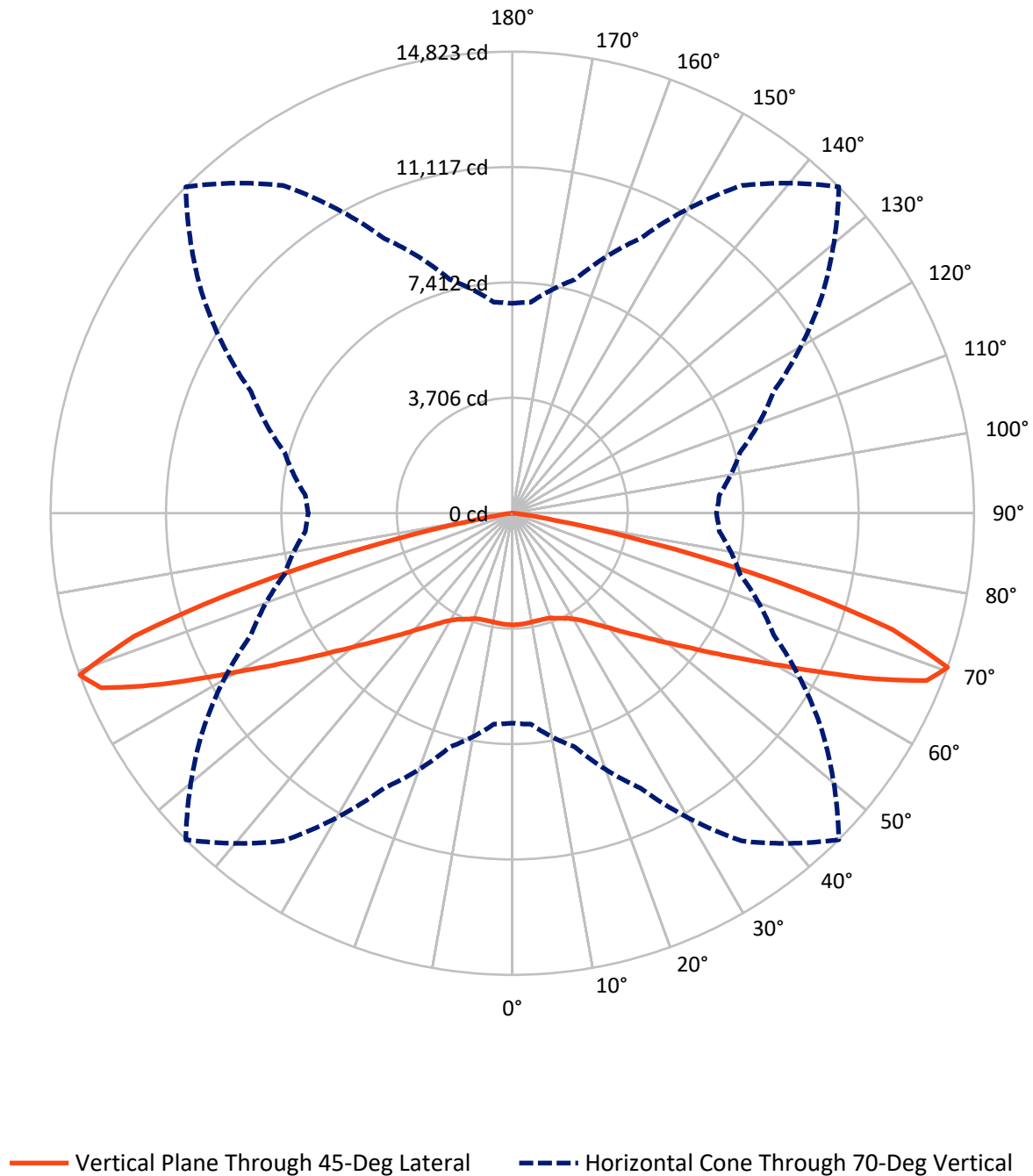


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type V - Short - N/A

REPORT NUMBER: P454772

CATALOG NUMBER: GALN-SA5D-830-U-5MQ

Luminous Intensity Polar Plot



REPORT NUMBER: P454772

CATALOG NUMBER: GALN-SA5D-830-U-5MQ

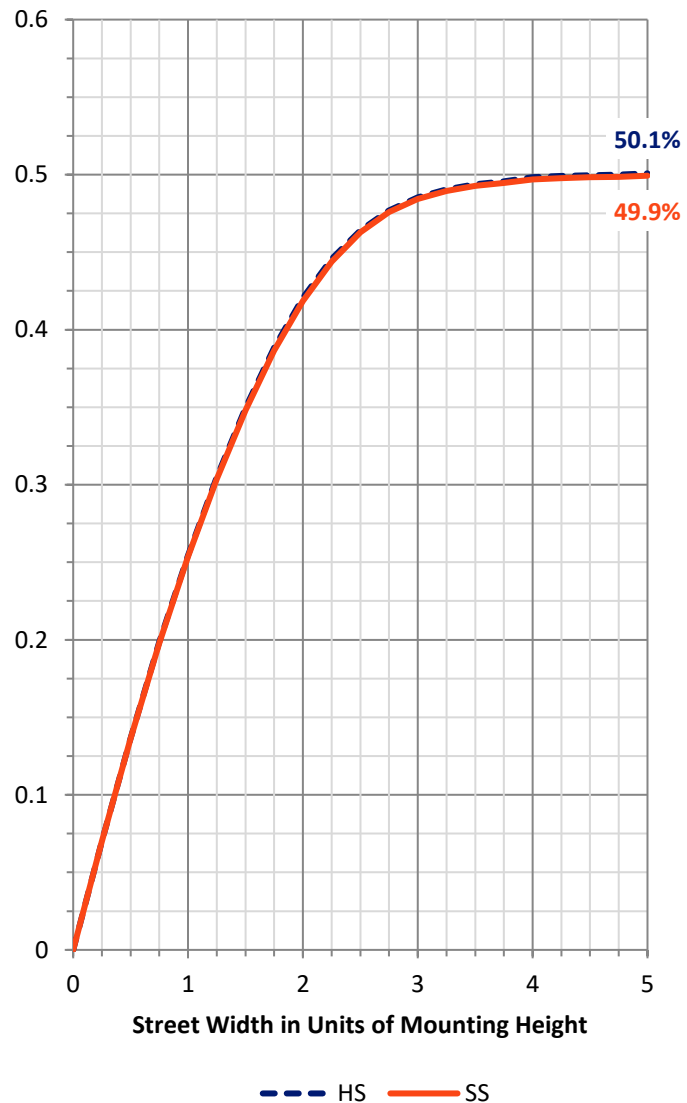
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16144.0	0.0	16144.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16144.0	0.0	16144.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32288.0	0.0	32288.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.0	1.1
10°-20°	997.7	3.1
20°-30°	1706.4	5.3
30°-40°	2708.4	8.4
40°-50°	4369.4	13.5
50°-60°	7109.1	22.0
60°-70°	10305.6	31.9
70°-80°	4571.2	14.2
80°-90°	180.3	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°	32288.0	100.0
0°-180°	32288.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454772

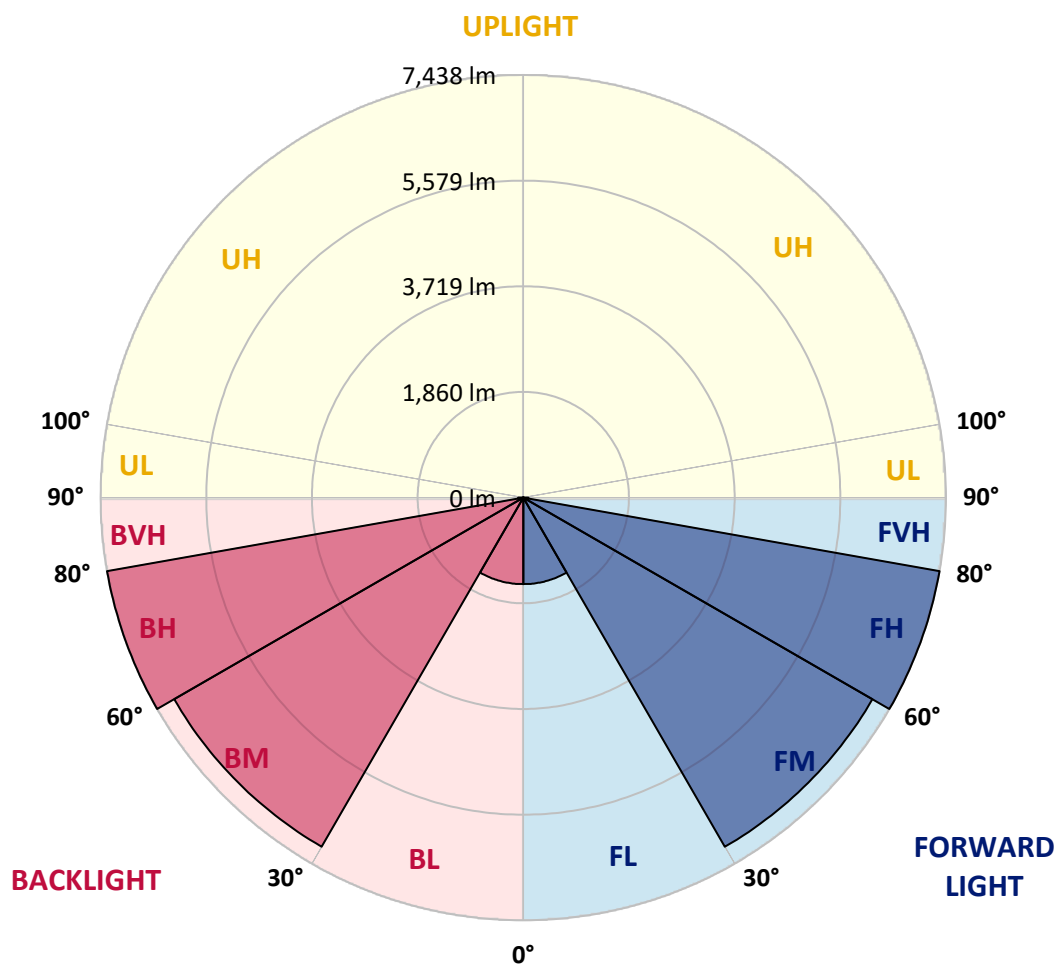
CATALOG NUMBER: GALN-SA5D-830-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1522.1	4.7			
FM	(30°-60°)	7093.4	22.0			
FH	(60°-80°)	7438.4	23.0			G3/7500
FVH	(80°-90°)	90.1	0.3			G1/100
BL	(0°-30°)	1522.1	4.7	B3/2500		
BM	(30°-60°)	7093.4	22.0	B4/8500		
BH	(60°-80°)	7438.4	23.0	B5		G3/7500
BVH	(80°-90°)	90.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





REPORT NUMBER: P454772

CATALOG NUMBER: GALN-SA5D-830-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3585.4	3585.4	3585.4	3585.4	3585.4	3585.4	3585.4	3585.4	3585.4	3585.4	3585.4
2.5°	3585.4	3588.8	3583.7	3580.3	3578.6	3578.6	3576.9	3578.6	3588.8	3590.5	3585.4
5°	3575.2	3578.6	3576.9	3573.5	3571.8	3571.8	3570.1	3568.4	3576.9	3580.3	3578.6
7.5°	3561.6	3563.3	3561.6	3559.9	3561.6	3559.9	3554.8	3551.4	3558.2	3558.2	3556.5
10°	3537.8	3541.2	3539.5	3541.2	3544.6	3544.6	3537.8	3531.0	3532.7	3529.3	3529.3
12.5°	3508.9	3514.0	3515.7	3522.5	3531.0	3541.2	3525.9	3510.6	3507.2	3505.5	3503.7
15°	3490.1	3495.2	3502.0	3508.9	3524.2	3546.3	3524.2	3500.3	3493.5	3486.7	3483.3
17.5°	3485.0	3491.8	3502.0	3512.3	3532.7	3554.8	3536.1	3512.3	3495.2	3485.0	3481.6
20°	3498.6	3503.7	3519.1	3537.8	3566.7	3588.8	3570.1	3544.6	3519.1	3503.7	3498.6
22.5°	3525.9	3534.4	3553.1	3587.1	3628.0	3660.3	3634.8	3592.2	3551.4	3531.0	3524.2
25°	3585.4	3592.2	3614.4	3660.3	3708.0	3738.6	3711.4	3662.0	3605.9	3578.6	3570.1
27.5°	3675.6	3685.8	3709.7	3764.1	3803.2	3820.3	3801.5	3767.5	3726.7	3697.7	3690.9
30°	3803.2	3815.2	3850.9	3908.7	3934.3	3944.5	3936.0	3913.9	3884.9	3854.3	3847.5
32.5°	3975.1	3981.9	4022.8	4077.2	4101.0	4104.4	4094.2	4084.0	4036.4	3985.3	3981.9
35°	4167.4	4179.3	4228.7	4293.3	4315.4	4317.2	4296.7	4281.4	4225.3	4184.4	4184.4
37.5°	4422.7	4427.8	4475.4	4548.6	4572.4	4565.6	4555.4	4541.8	4482.2	4429.5	4431.2
40°	4722.1	4732.4	4773.2	4858.3	4858.3	4849.8	4856.6	4846.4	4786.8	4735.8	4737.5
42.5°	5077.8	5082.9	5132.3	5222.4	5215.6	5198.6	5205.4	5191.8	5154.4	5096.5	5076.1
45°	5457.3	5477.7	5562.8	5649.6	5635.9	5581.5	5608.7	5605.3	5571.3	5484.5	5489.6
47.5°	5915.0	5949.1	6030.7	6134.5	6119.2	6034.1	6064.8	6085.2	6037.5	5942.3	5925.2
50°	6430.6	6452.8	6573.6	6670.6	6657.0	6566.8	6636.5	6639.9	6520.8	6386.4	6386.4
52.5°	6980.3	7002.4	7165.8	7317.2	7325.7	7194.7	7250.8	7247.4	7053.4	6876.5	6842.4
55°	7596.3	7606.5	7817.5	8040.4	8088.1	7960.4	7967.2	7899.2	7647.3	7441.4	7422.7
57.5°	8232.7	8270.1	8503.3	8792.6	8933.8	8855.5	8819.8	8637.7	8394.4	8157.8	8145.9
60°	8937.2	8938.9	9241.8	9583.8	9869.7	9922.5	9776.1	9532.8	9218.0	8904.9	8891.3
62.5°	9425.6	9498.8	9881.6	10460.2	10972.4	11268.5	10882.2	10371.7	9752.3	9246.9	9195.9
65°	9526.0	9575.3	10159.0	11139.2	12185.7	12823.8	11930.4	10844.8	9788.0	9114.2	9080.1
67.5°	8714.3	8767.0	9553.2	11057.5	13036.5	14345.1	12611.1	10616.8	9182.2	8348.4	8282.1
70°	6740.3	6799.9	7771.6	9733.6	12847.6	14823.3	12126.1	9260.5	7572.5	6672.3	6551.5
72.5°	3583.7	3803.2	4633.7	6680.8	10427.9	12762.6	9942.9	6757.4	4883.8	3992.1	3832.2
75°	1308.6	1335.8	1798.7	2962.6	6066.5	8751.7	6299.6	3223.0	1853.1	1431.1	1357.9
77.5°	541.1	539.4	592.2	895.1	2203.7	4482.2	2458.9	946.1	590.5	546.2	539.4
80°	319.9	319.9	352.2	372.7	580.3	1352.8	648.3	422.0	353.9	323.3	328.4
82.5°	142.9	151.4	222.9	234.8	280.8	371.0	313.1	268.9	231.4	160.0	144.6
85°	78.3	68.1	117.4	122.5	134.4	137.8	148.0	146.3	134.4	78.3	80.0
87.5°	15.3	18.7	34.0	25.5	28.9	25.5	34.0	47.6	49.3	27.2	22.1
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)