

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: P455702

Luminaire Tested: **GALN-SA6D-830-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38152 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 368
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



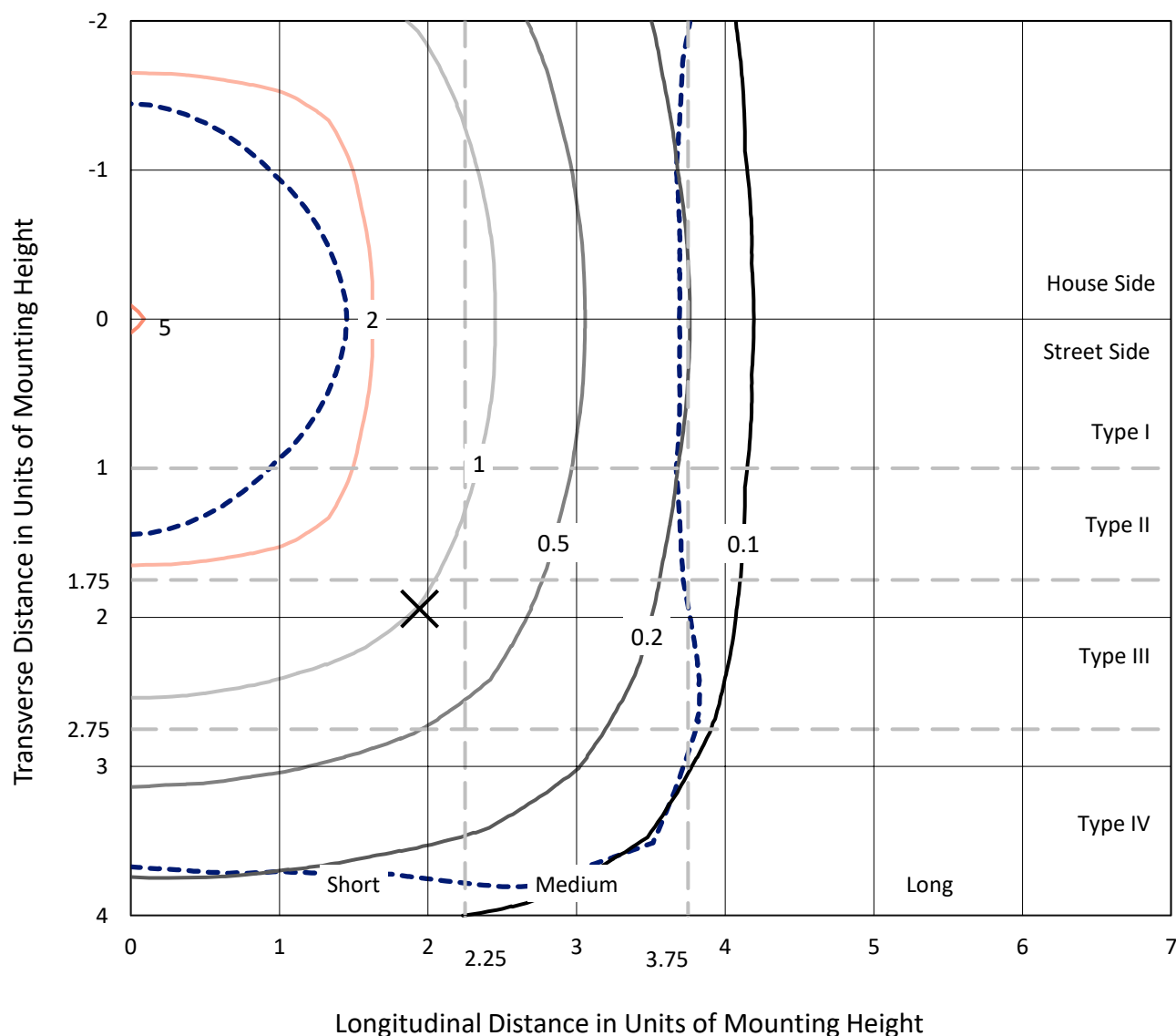
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

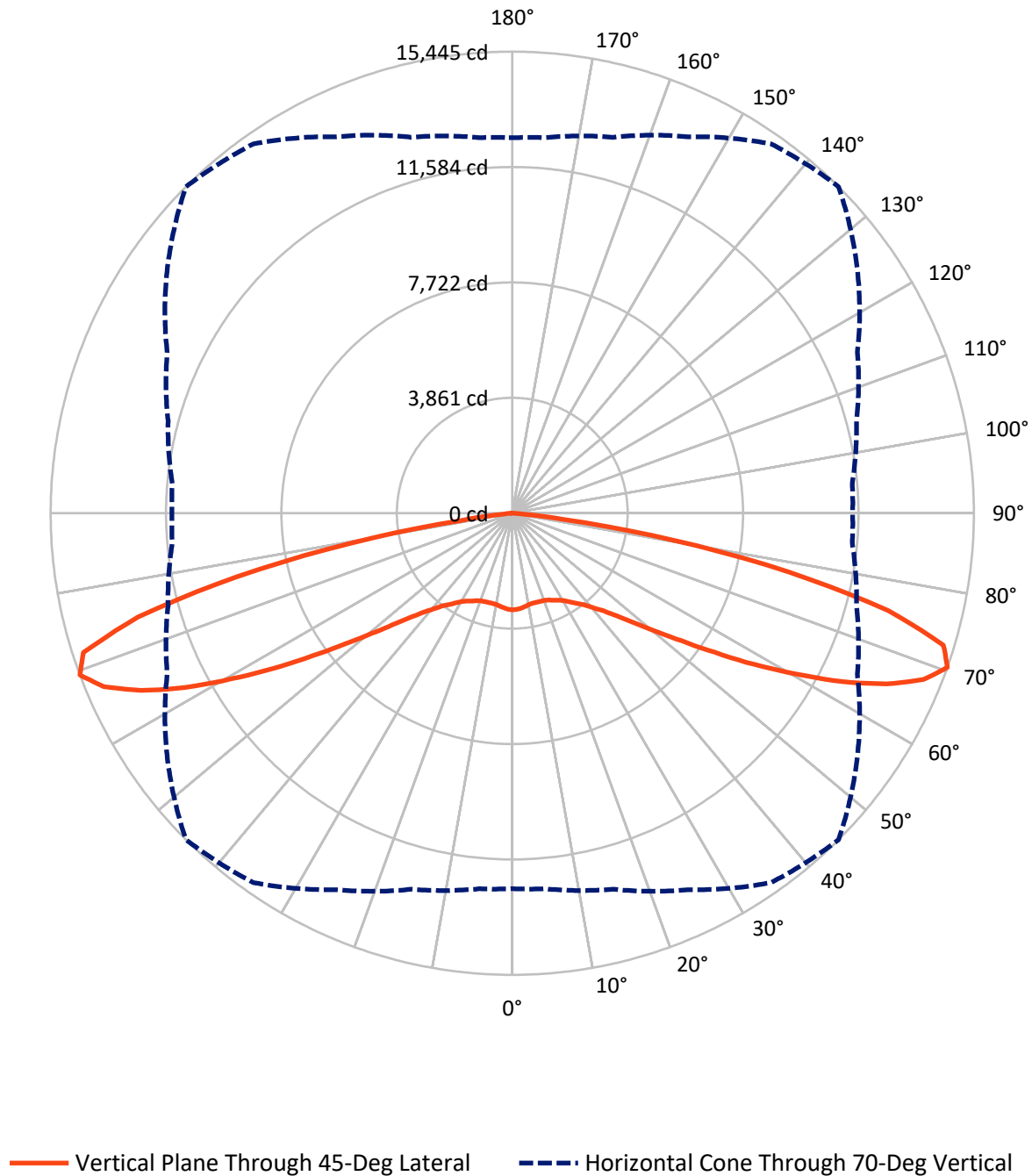


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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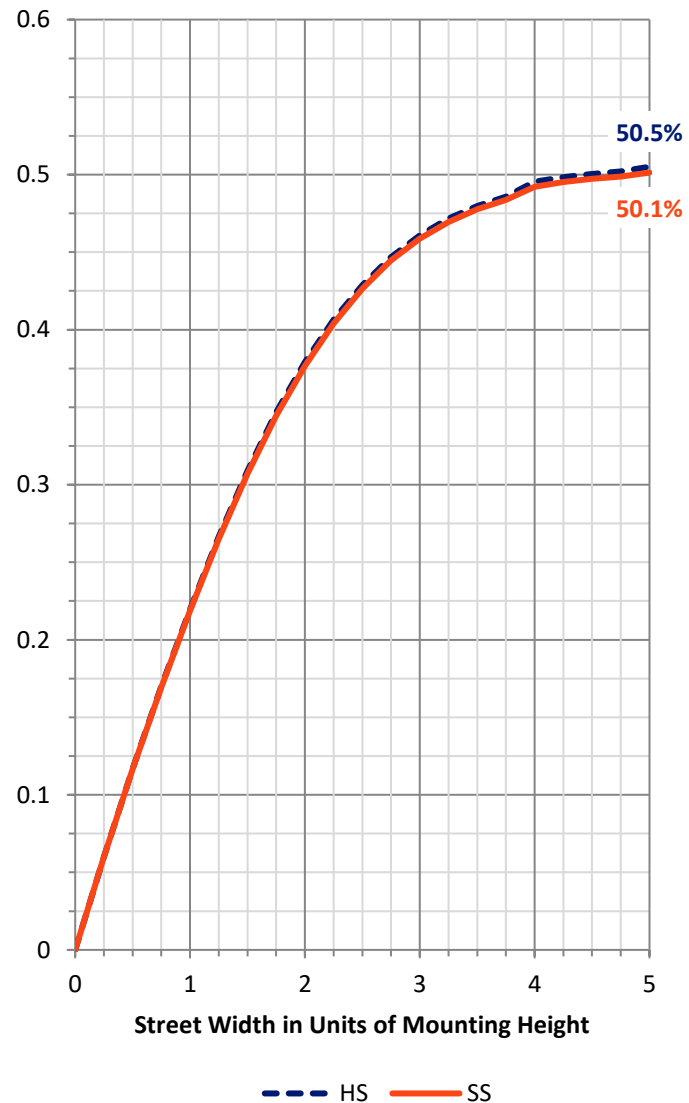
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19076.0	0.0	19076.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19076.0	0.0	19076.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	38152.0	0.0	38152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.1	0.8
10°-20°	884.3	2.3
20°-30°	1506.7	3.9
30°-40°	2335.3	6.1
40°-50°	3930.7	10.3
50°-60°	7151.7	18.7
60°-70°	12107.7	31.7
70°-80°	9371.9	24.6
80°-90°	561.6	1.5
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°	38152.0	100.0
0°-180°	38152.0	100.0

Coefficient of Utilization



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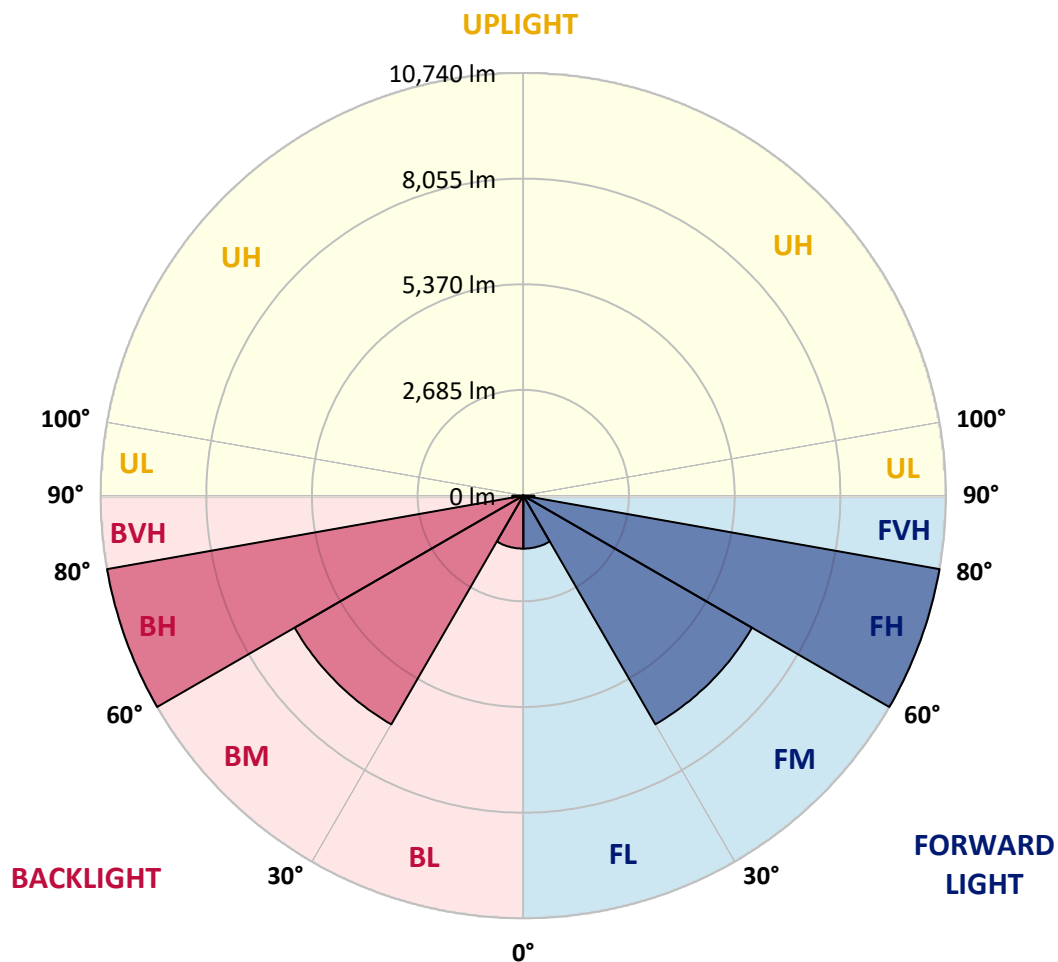
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1346.5	3.5			
FM	(30°-60°)	6708.9	17.6			
FH	(60°-80°)	10739.8	28.1			G4/12000
FVH	(80°-90°)	280.8	0.7			G3/500
BL	(0°-30°)	1346.5	3.5	B3/2500		
BM	(30°-60°)	6708.9	17.6	B4/8500		
BH	(60°-80°)	10739.8	28.1	B5		G4/12000
BVH	(80°-90°)	280.8	0.7			G3/500
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3230.0	3230.0	3230.0	3230.0	3230.0	3230.0	3230.0	3230.0	3230.0	3230.0	3230.0
2.5°	3222.0	3224.0	3224.0	3220.0	3217.9	3217.9	3215.9	3215.9	3222.0	3224.0	3226.0
5°	3193.8	3193.8	3193.8	3191.7	3187.7	3187.7	3183.7	3183.7	3185.7	3191.7	3187.7
7.5°	3155.5	3159.5	3159.5	3151.4	3145.4	3145.4	3143.4	3145.4	3147.4	3153.5	3151.4
10°	3143.4	3145.4	3135.3	3121.2	3111.1	3105.1	3107.1	3111.1	3121.2	3125.3	3127.3
12.5°	3151.4	3151.4	3133.3	3113.2	3095.0	3087.0	3085.0	3099.1	3117.2	3129.3	3133.3
15°	3161.5	3157.5	3135.3	3109.1	3091.0	3089.0	3087.0	3097.0	3123.2	3147.4	3149.4
17.5°	3167.6	3165.6	3137.3	3105.1	3095.0	3095.0	3093.0	3101.1	3129.3	3159.5	3161.5
20°	3187.7	3181.7	3149.4	3115.2	3107.1	3111.1	3105.1	3115.2	3145.4	3181.7	3189.7
22.5°	3228.0	3222.0	3189.7	3155.5	3151.4	3151.4	3149.4	3159.5	3191.7	3230.0	3236.1
25°	3276.4	3270.3	3240.1	3215.9	3220.0	3228.0	3224.0	3226.0	3252.2	3284.4	3294.5
27.5°	3340.9	3330.8	3304.6	3284.4	3296.5	3296.5	3296.5	3294.5	3310.6	3340.9	3350.9
30°	3419.4	3415.4	3387.2	3385.2	3395.3	3385.2	3385.2	3387.2	3389.2	3417.4	3427.5
32.5°	3522.2	3514.1	3500.0	3496.0	3524.2	3532.3	3504.1	3477.9	3492.0	3520.2	3526.2
35°	3691.5	3679.4	3659.2	3637.1	3659.2	3697.5	3637.1	3616.9	3653.2	3691.5	3695.5
37.5°	3921.2	3915.1	3882.9	3842.6	3840.6	3880.9	3818.4	3816.4	3884.9	3931.3	3937.3
40°	4209.3	4215.4	4175.1	4136.8	4116.6	4148.9	4100.5	4118.6	4185.1	4237.5	4233.5
42.5°	4614.3	4592.2	4529.7	4493.4	4471.3	4459.2	4447.1	4475.3	4549.9	4606.3	4650.6
45°	5087.9	5079.8	5001.2	4956.9	4908.5	4890.4	4886.4	4936.7	5027.4	5095.9	5102.0
47.5°	5623.8	5605.7	5555.3	5509.0	5490.9	5468.7	5448.5	5486.8	5577.5	5625.9	5640.0
50°	6176.0	6180.0	6180.0	6171.9	6190.1	6194.1	6139.7	6153.8	6204.2	6200.1	6196.1
52.5°	6806.6	6828.8	6933.6	6943.7	7030.3	7088.7	6990.0	6931.6	6913.4	6804.6	6812.7
55°	7548.2	7568.3	7725.5	7882.7	8116.4	8215.1	8007.6	7826.2	7697.3	7532.0	7540.1
57.5°	8473.0	8483.1	8632.2	8934.5	9305.2	9537.0	9172.2	8813.6	8551.6	8394.5	8332.0
60°	9468.5	9478.5	9696.1	10064.9	10641.2	10923.3	10471.9	9885.6	9555.1	9315.3	9331.4
62.5°	10663.3	10703.6	10899.1	11406.9	12106.1	12422.4	11824.0	11040.1	10592.8	10294.6	10306.7
65°	11942.9	12011.4	12225.0	12783.1	13427.9	13768.4	13035.0	12130.3	11574.1	11209.4	11247.7
67.5°	12773.0	12833.5	13141.8	13758.4	14562.4	14844.5	13897.4	12843.6	12148.4	11713.2	11632.6
70°	12561.5	12611.8	13022.9	13897.4	15088.3	15444.9	14102.9	12738.8	11920.7	11419.0	11386.7
72.5°	11088.5	10983.7	11584.2	12839.5	14487.8	15086.3	13456.1	11634.6	10604.9	10089.1	10028.6
75°	7348.7	7576.4	8463.0	9942.0	12257.2	12998.7	11485.5	9341.5	8045.9	7616.7	7550.2
77.5°	2456.3	2631.6	3419.4	5635.9	8356.2	9470.5	8368.3	6109.5	4322.2	3481.9	3498.0
80°	650.8	642.8	832.2	1549.5	3610.9	5484.8	4203.3	2069.4	1132.4	820.1	777.8
82.5°	233.7	261.9	336.5	429.2	957.1	1704.7	1203.0	580.3	425.2	314.3	304.3
85°	102.8	100.7	145.1	171.3	239.8	318.4	282.1	245.8	215.6	143.1	133.0
87.5°	22.2	22.2	34.3	26.2	42.3	42.3	52.4	62.5	64.5	42.3	34.3
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)