

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: P452932

Luminaire Tested: **GALN-SA3D-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452932
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-SA3D-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 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: 18319 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 184
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

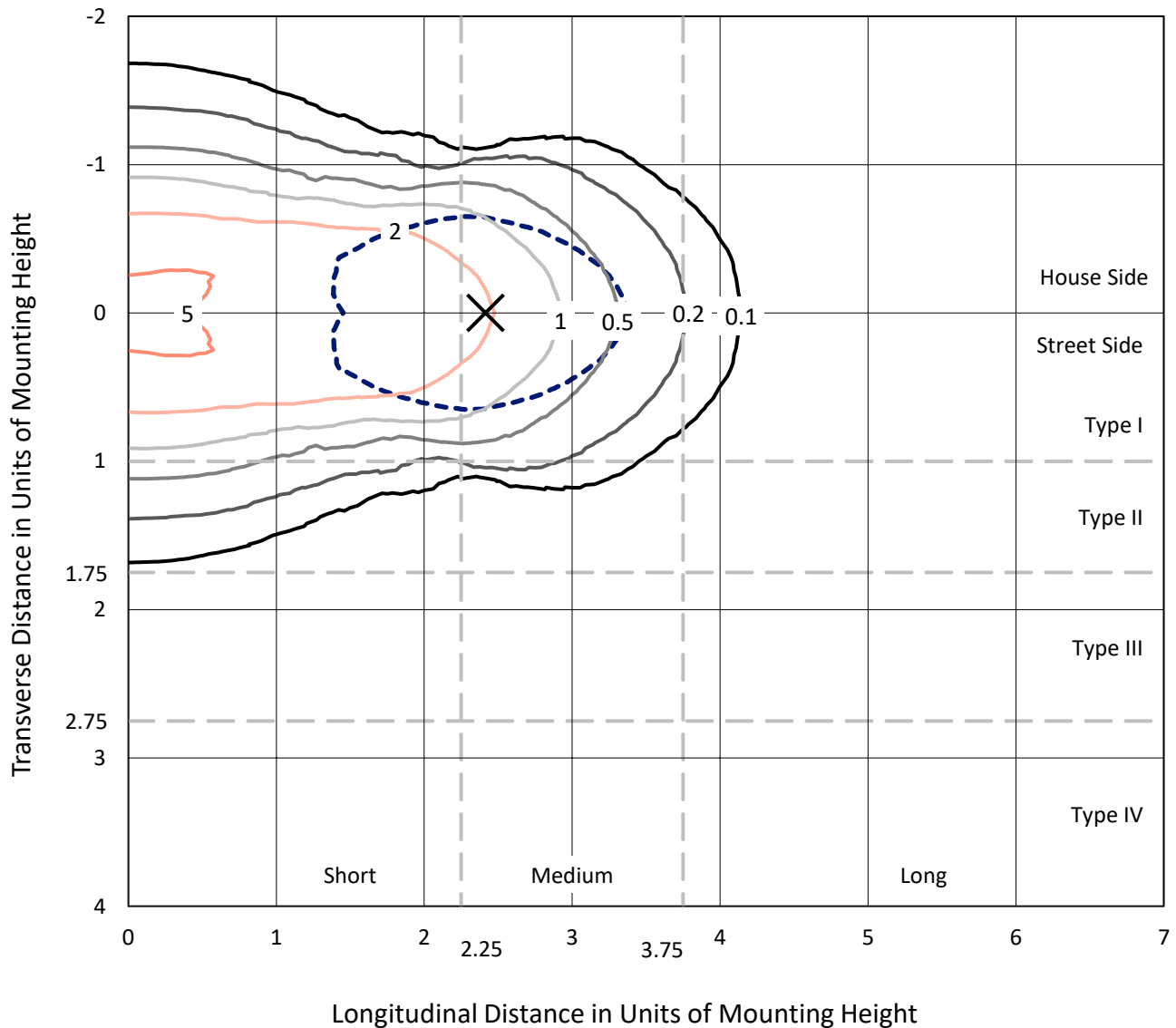


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

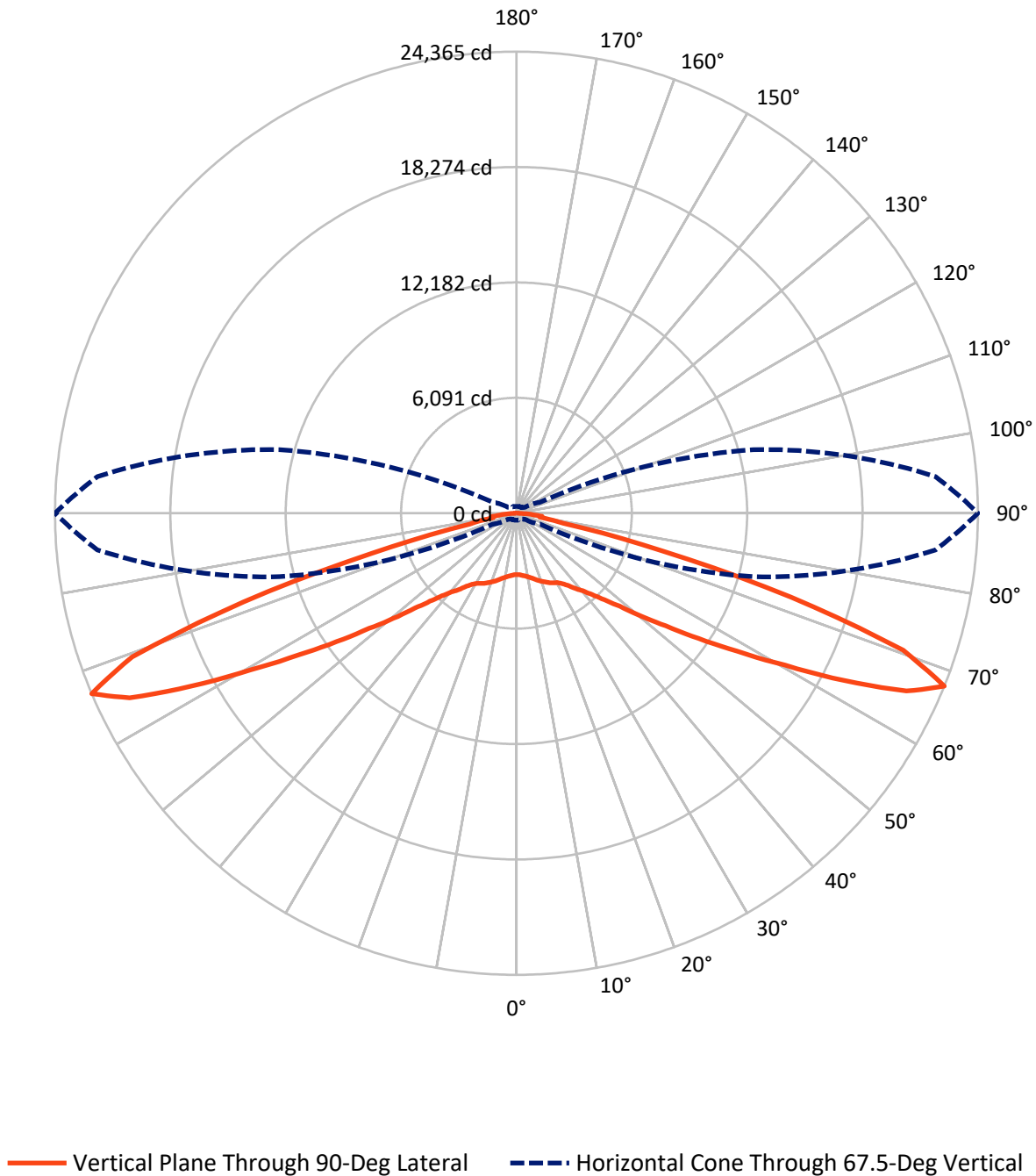


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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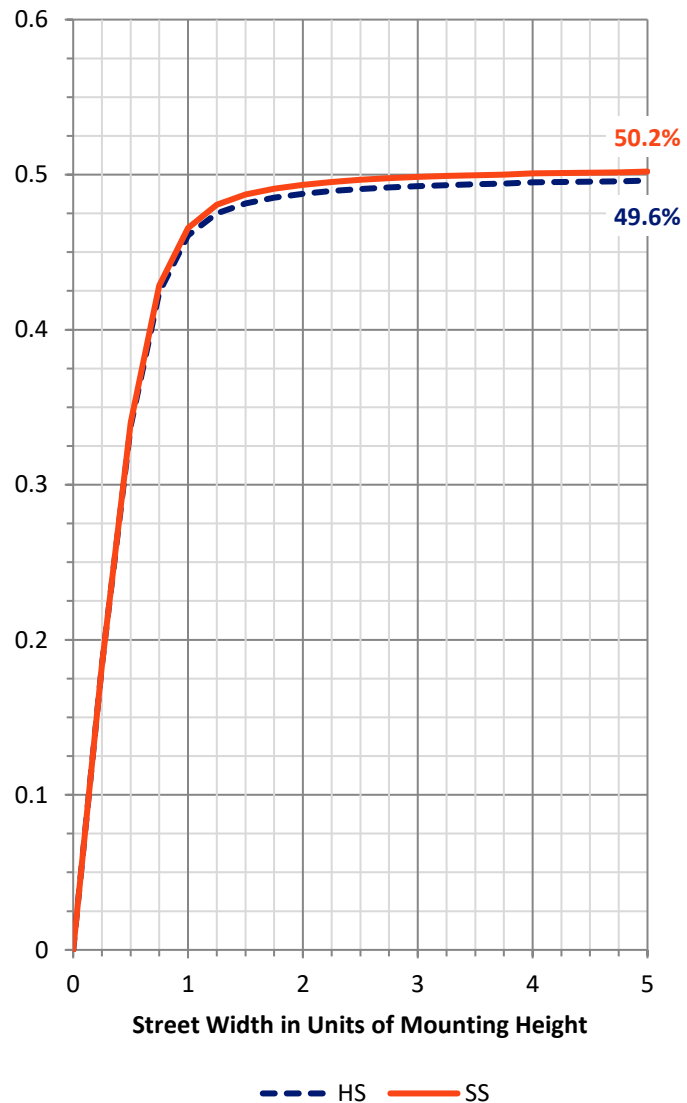
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9159.5	0.0	9159.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9159.5	0.0	9159.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18319.0	0.0	18319.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.3	1.8
10°-20°	1034.5	5.6
20°-30°	1731.5	9.5
30°-40°	2345.7	12.8
40°-50°	2971.2	16.2
50°-60°	3711.7	20.3
60°-70°	4363.0	23.8
70°-80°	1669.0	9.1
80°-90°	169.1	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°	18319.0	100.0
0°-180°	18319.0	100.0

Coefficient of Utilization



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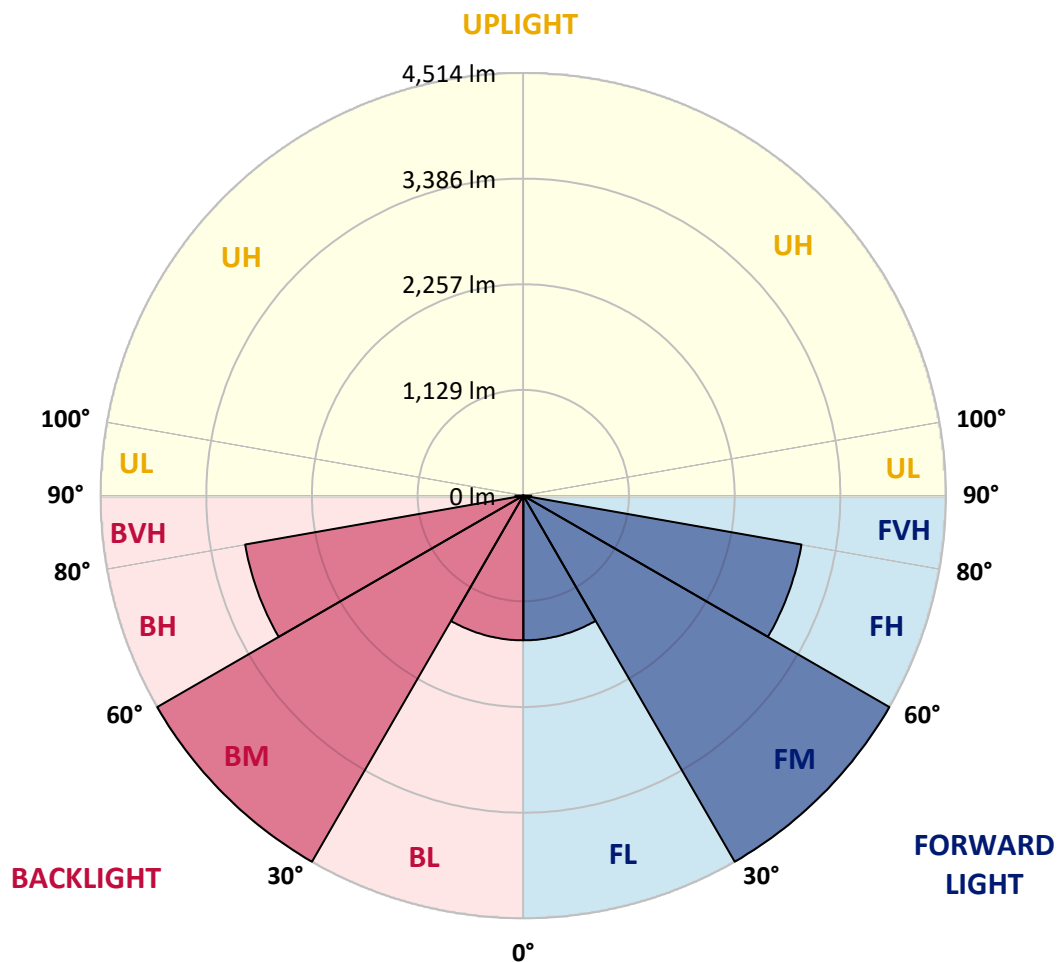
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1544.6	8.4			
FM	(30°-60°)	4514.3	24.6			
FH	(60°-80°)	3016.0	16.5			G2/5000
FVH	(80°-90°)	84.5	0.5			G1/100
BL	(0°-30°)	1544.6	8.4	B3/2500		
BM	(30°-60°)	4514.3	24.6	B3/5000		
BH	(60°-80°)	3016.0	16.5	B4/5000		G4/5000
BVH	(80°-90°)	84.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3243.0	3243.0	3243.0	3243.0	3243.0	3243.0	3243.0	3243.0	3243.0	3243.0	3243.0
2.5°	3284.6	3282.6	3283.6	3282.6	3285.6	3283.6	3271.4	3261.3	3253.2	3254.2	3251.1
5°	3354.6	3355.6	3356.6	3351.6	3358.7	3354.6	3335.3	3319.1	3302.9	3296.8	3294.8
7.5°	3412.4	3417.5	3420.6	3425.6	3437.8	3437.8	3427.7	3404.3	3368.8	3348.5	3347.5
10°	3470.3	3474.3	3483.4	3499.7	3520.0	3539.2	3535.2	3503.7	3458.1	3423.6	3415.5
12.5°	3490.5	3495.6	3526.1	3572.7	3618.4	3655.9	3655.9	3630.5	3571.7	3518.9	3503.7
15°	3419.5	3428.7	3483.4	3582.9	3702.6	3784.7	3803.0	3767.5	3704.6	3623.4	3605.2
17.5°	3278.5	3300.9	3381.0	3528.1	3726.9	3897.3	3950.1	3932.8	3851.7	3748.2	3726.9
20°	3127.4	3151.7	3236.9	3431.7	3706.6	3963.3	4116.4	4120.5	4020.1	3869.9	3838.5
22.5°	2961.0	2979.3	3088.8	3317.1	3645.7	3978.5	4259.5	4329.5	4193.5	3991.7	3947.0
25°	2774.4	2794.7	2909.3	3155.8	3531.1	3961.2	4390.3	4544.5	4375.1	4121.5	4064.7
27.5°	2595.8	2604.0	2726.7	2977.3	3380.0	3916.6	4486.7	4742.3	4576.0	4229.0	4157.0
30°	2424.4	2443.7	2552.2	2799.7	3206.5	3829.4	4569.9	4967.5	4792.0	4341.6	4249.3
32.5°	2242.8	2266.2	2383.8	2634.4	3033.1	3698.5	4620.6	5214.0	5093.3	4524.2	4425.8
35°	2068.4	2083.6	2202.3	2445.7	2863.6	3546.3	4629.7	5492.0	5481.8	4801.2	4670.3
37.5°	1889.8	1912.1	2031.8	2265.2	2684.1	3385.0	4584.1	5787.1	5950.5	5185.6	5044.6
40°	1718.4	1737.7	1855.3	2090.7	2480.2	3188.3	4475.5	6057.0	6497.2	5581.2	5381.4
42.5°	1531.7	1536.8	1665.6	1905.0	2280.4	2960.0	4319.3	6297.4	7106.9	6111.8	5863.2
45°	1319.7	1332.9	1452.6	1688.0	2051.1	2704.4	4107.3	6496.2	7879.9	6847.2	6508.4
47.5°	1107.7	1118.9	1228.4	1460.7	1800.6	2411.2	3780.7	6670.7	8673.1	7781.5	7337.1
50°	900.8	906.9	996.1	1202.1	1518.6	2102.8	3375.9	6726.5	9569.8	9104.2	8537.2
52.5°	712.1	721.2	789.2	950.5	1217.3	1738.7	2938.7	6588.5	10616.7	10672.5	9873.1
55°	577.2	580.2	631.0	749.6	951.5	1357.3	2411.2	6204.1	11742.7	12682.0	11662.5
57.5°	497.1	499.1	527.5	593.4	732.4	1023.5	1870.6	5476.7	12754.0	15036.4	13725.8
60°	451.4	452.4	468.7	507.2	580.2	785.1	1340.0	4450.2	13752.2	17656.6	16290.2
62.5°	423.0	423.0	434.2	455.5	491.0	602.6	970.8	3210.6	14435.9	20315.4	19451.1
65°	395.6	395.6	403.7	418.9	438.2	493.0	717.2	2093.7	14418.7	22251.9	22630.2
67.5°	364.2	364.2	370.3	385.5	396.6	424.0	553.9	1371.5	12951.8	22209.3	24364.8
70°	326.6	326.6	334.8	347.9	357.1	374.3	437.2	938.3	9515.1	18963.2	21668.6
72.5°	289.1	290.1	295.2	308.4	315.5	325.6	363.2	657.3	5836.9	12912.3	15151.1
75°	247.5	249.5	254.6	267.8	273.9	277.9	306.3	468.7	2952.9	6961.8	7926.5
77.5°	199.8	203.9	206.9	221.1	225.2	231.3	252.6	338.8	1296.4	2501.5	2523.8
80°	146.1	151.1	160.3	173.5	176.5	180.6	192.7	240.4	587.3	1142.2	1240.6
82.5°	107.5	114.6	103.5	120.7	120.7	115.6	135.9	161.3	269.8	1131.1	1353.2
85°	58.8	59.8	53.8	61.9	65.9	64.9	72.0	79.1	130.9	754.7	778.0
87.5°	14.2	15.2	16.2	19.3	23.3	23.3	25.4	22.3	42.6	244.5	140.0
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)