

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: P454788

Luminaire Tested: **GALN-SA5D-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454788
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-SA5D-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 30731 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 309
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



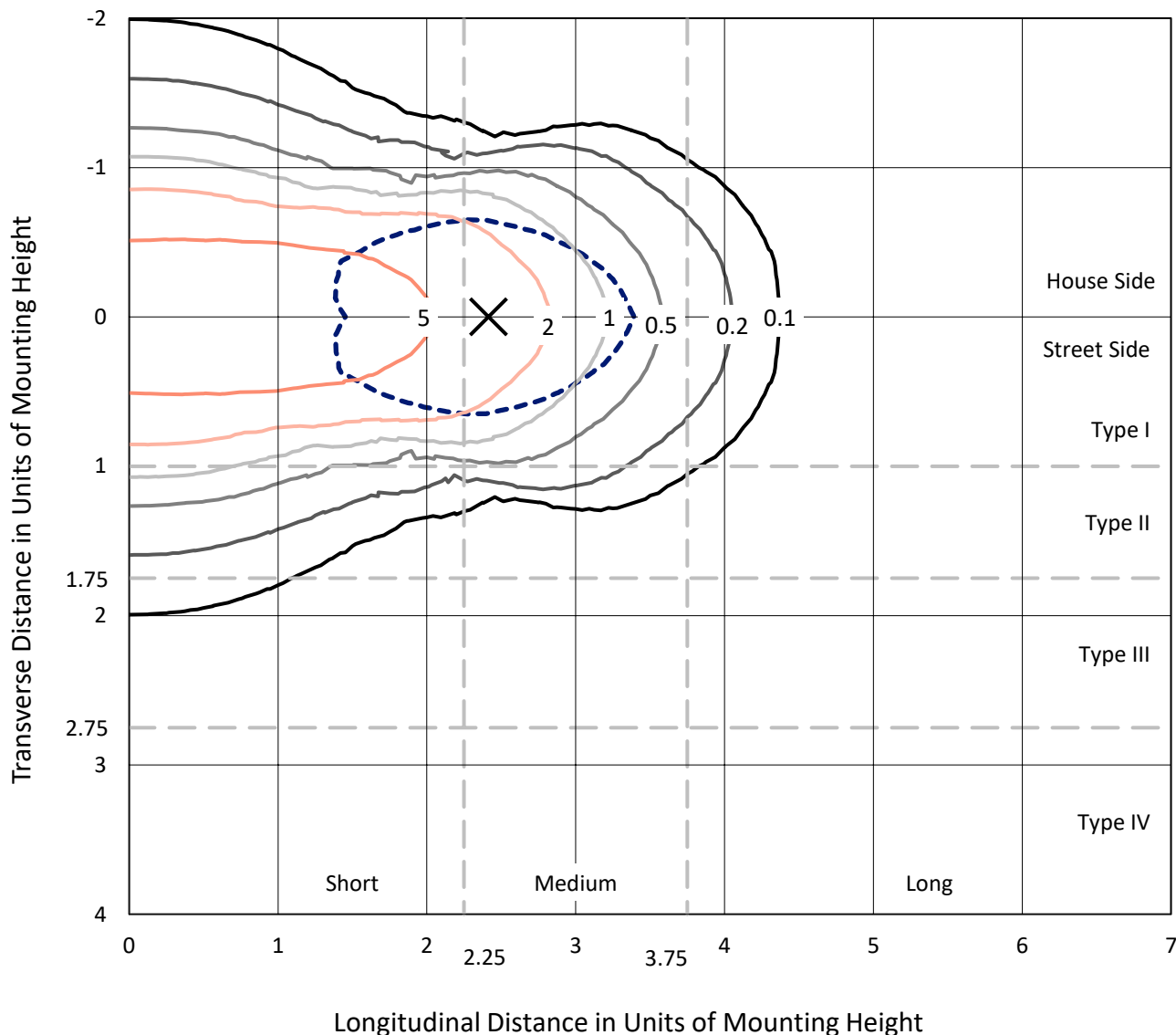
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

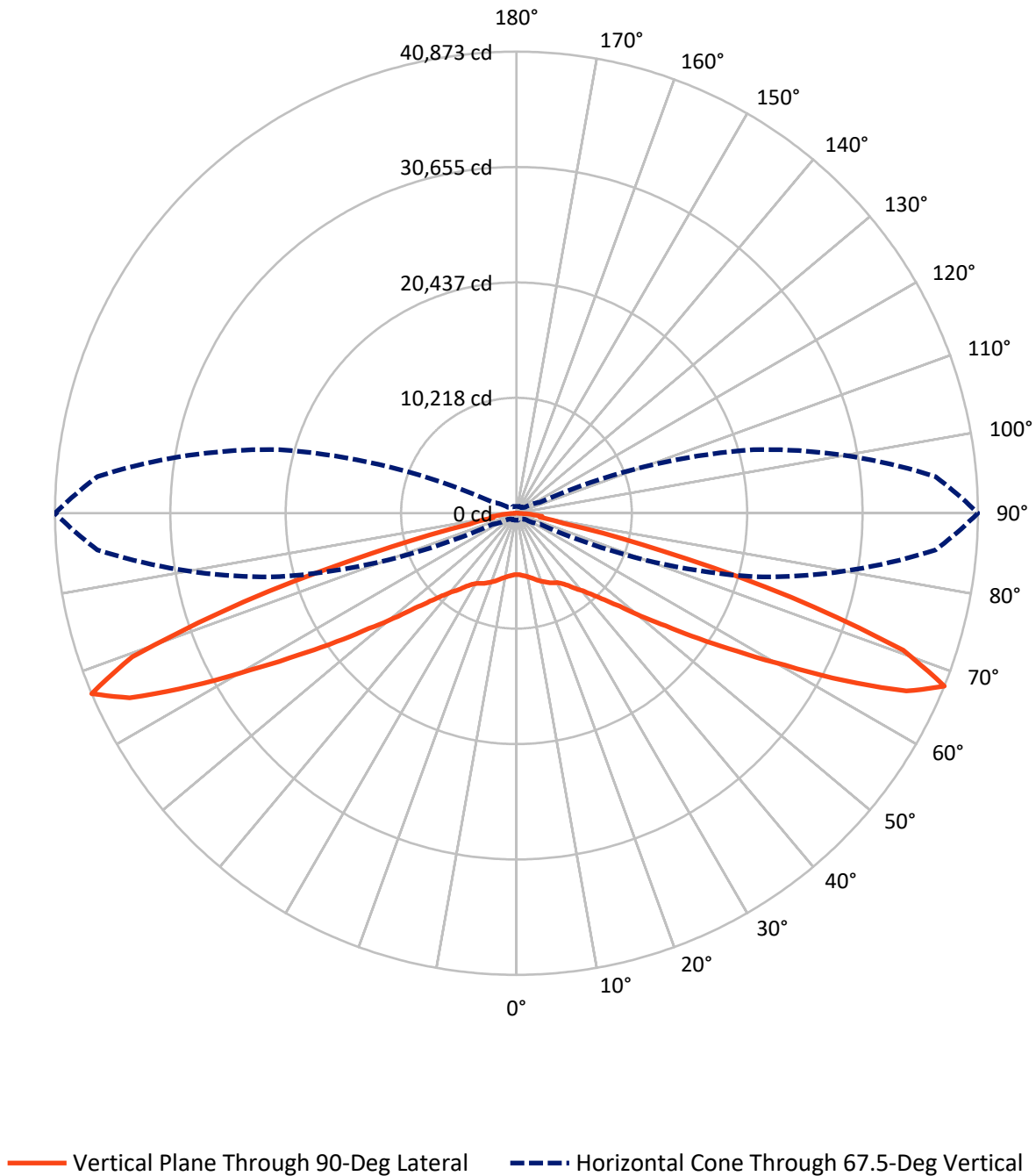


Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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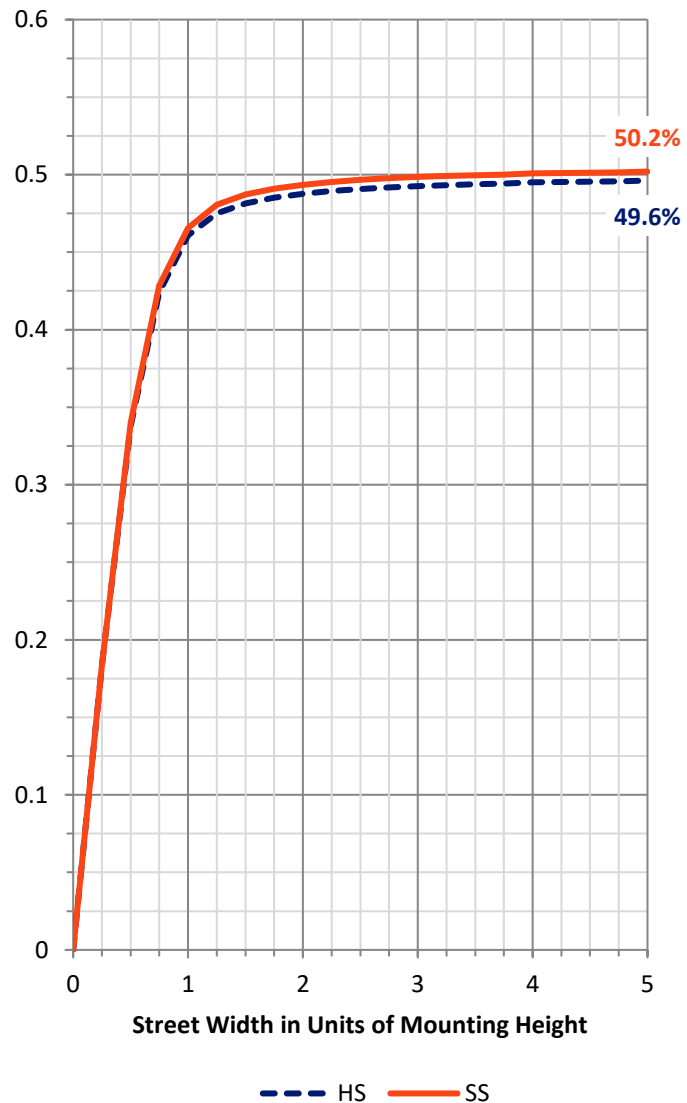
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15365.5	0.0	15365.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15365.5	0.0	15365.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30731.0	0.0	30731.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.4	1.8
10°-20°	1735.4	5.6
20°-30°	2904.6	9.5
30°-40°	3935.0	12.8
40°-50°	4984.3	16.2
50°-60°	6226.6	20.3
60°-70°	7319.1	23.8
70°-80°	2799.9	9.1
80°-90°	283.7	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°	30731.0	100.0
0°-180°	30731.0	100.0

Coefficient of Utilization



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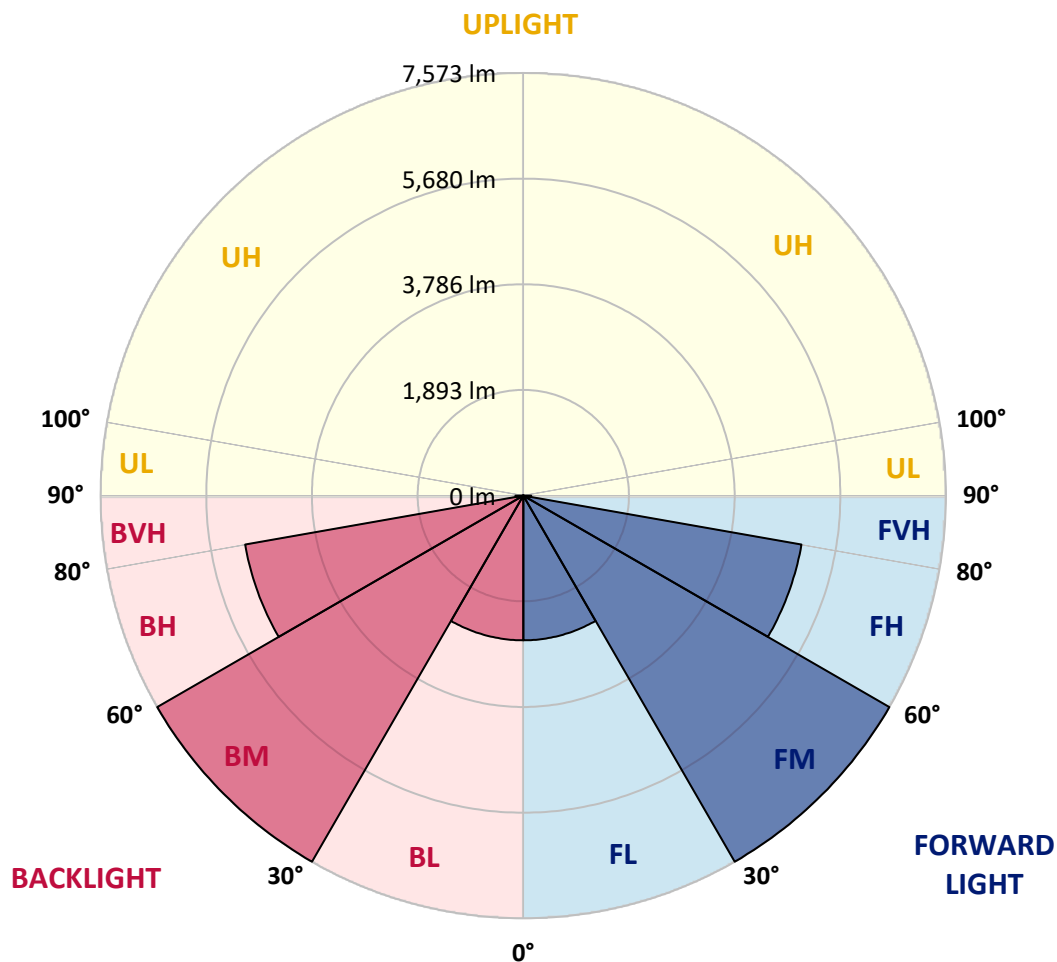
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2591.2	8.4			
FM	(30°-60°)	7573.0	24.6			
FH	(60°-80°)	5059.5	16.5			G3/7500
FVH	(80°-90°)	141.8	0.5			G2/225
BL	(0°-30°)	2591.2	8.4	B4/5000		
BM	(30°-60°)	7573.0	24.6	B4/8500		
BH	(60°-80°)	5059.5	16.5	B5		G5
BVH	(80°-90°)	141.8	0.5			G2/225
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°	5440.3	5440.3	5440.3	5440.3	5440.3	5440.3	5440.3	5440.3	5440.3	5440.3	5440.3
2.5°	5510.1	5506.7	5508.4	5506.7	5511.8	5508.4	5488.0	5471.0	5457.4	5459.1	5454.0
5°	5627.5	5629.2	5630.9	5622.4	5634.3	5627.5	5595.2	5568.0	5540.7	5530.5	5527.1
7.5°	5724.5	5733.0	5738.1	5746.7	5767.1	5767.1	5750.1	5710.9	5651.4	5617.3	5615.6
10°	5821.5	5828.3	5843.6	5870.9	5904.9	5937.2	5930.4	5877.7	5801.1	5743.2	5729.6
12.5°	5855.6	5864.1	5915.1	5993.4	6070.0	6132.9	6132.9	6090.4	5991.7	5903.2	5877.7
15°	5736.4	5751.8	5843.6	6010.4	6211.2	6349.1	6379.7	6320.1	6214.6	6078.5	6047.9
17.5°	5499.9	5537.3	5671.8	5918.5	6252.1	6537.9	6626.4	6597.5	6461.4	6287.8	6252.1
20°	5246.3	5287.2	5430.1	5756.9	6218.0	6648.6	6905.5	6912.3	6743.8	6492.0	6439.2
22.5°	4967.3	4997.9	5181.7	5564.6	6115.9	6674.1	7145.4	7262.9	7034.8	6696.2	6621.3
25°	4654.2	4688.2	4880.5	5294.0	5923.6	6645.1	7365.0	7623.6	7339.4	6914.0	6818.7
27.5°	4354.7	4368.3	4574.2	4994.5	5670.1	6570.3	7526.6	7955.5	7676.4	7094.4	6973.6
30°	4067.1	4099.4	4281.5	4696.7	5379.1	6423.9	7666.2	8333.2	8038.8	7283.3	7128.4
32.5°	3762.5	3801.6	3999.0	4419.3	5088.1	6204.4	7751.3	8746.8	8544.2	7589.6	7424.5
35°	3469.8	3495.3	3694.4	4102.8	4803.9	5949.2	7766.6	9213.0	9196.0	8054.2	7834.6
37.5°	3170.3	3207.7	3408.5	3799.9	4502.7	5678.6	7690.0	9708.2	9982.2	8699.1	8462.6
40°	2882.7	2915.0	3112.4	3507.2	4160.7	5348.5	7507.9	10160.9	10899.4	9362.8	9027.5
42.5°	2569.6	2578.1	2794.2	3195.8	3825.4	4965.6	7245.9	10564.2	11922.1	10252.8	9835.8
45°	2213.9	2236.0	2436.8	2831.6	3440.8	4536.7	6890.2	10897.7	13218.8	11486.5	10918.1
47.5°	1858.3	1877.0	2060.8	2450.5	3020.5	4044.9	6342.2	11190.4	14549.6	13053.8	12308.4
50°	1511.1	1521.3	1671.1	2016.5	2547.4	3527.6	5663.3	11284.0	16053.9	15272.8	14321.5
52.5°	1194.6	1209.9	1323.9	1594.5	2042.0	2916.7	4929.8	11052.6	17810.0	17903.6	16562.7
55°	968.3	973.4	1058.5	1257.6	1596.2	2276.9	4044.9	10407.6	19698.9	21274.7	19564.5
57.5°	833.8	837.2	884.9	995.5	1228.6	1717.0	3137.9	9187.5	21395.5	25224.3	23025.7
60°	757.3	759.0	786.2	850.9	973.4	1317.1	2247.9	7465.4	23070.0	29619.8	27327.6
62.5°	709.6	709.6	728.3	764.1	823.6	1010.8	1628.5	5385.9	24216.9	34080.0	32630.2
65°	663.7	663.7	677.3	702.8	735.1	827.0	1203.1	3512.3	24188.0	37328.6	37963.3
67.5°	610.9	610.9	621.1	646.6	665.4	711.3	929.1	2300.7	21727.3	37257.1	40873.2
70°	547.9	547.9	561.6	583.7	599.0	627.9	733.4	1574.1	15962.0	31811.6	36350.1
72.5°	485.0	486.7	495.2	517.3	529.2	546.2	609.2	1102.7	9791.6	21661.0	25416.6
75°	415.2	418.6	427.1	449.2	459.5	466.3	513.9	786.2	4953.7	11678.8	13297.1
77.5°	335.2	342.0	347.1	371.0	377.8	388.0	423.7	568.4	2174.8	4196.4	4233.8
80°	245.0	253.6	268.9	291.0	296.1	302.9	323.3	403.3	985.3	1916.1	2081.2
82.5°	180.4	192.3	173.6	202.5	202.5	194.0	228.0	270.6	452.7	1897.4	2270.1
85°	98.7	100.4	90.2	103.8	110.6	108.9	120.8	132.7	219.5	1266.1	1305.2
87.5°	23.8	25.5	27.2	32.3	39.1	39.1	42.5	37.4	71.5	410.1	234.8
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)