

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: STREETWORKS

Report Number: P316417

Luminaire Tested: **GAN-SA3D-727-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 20810 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

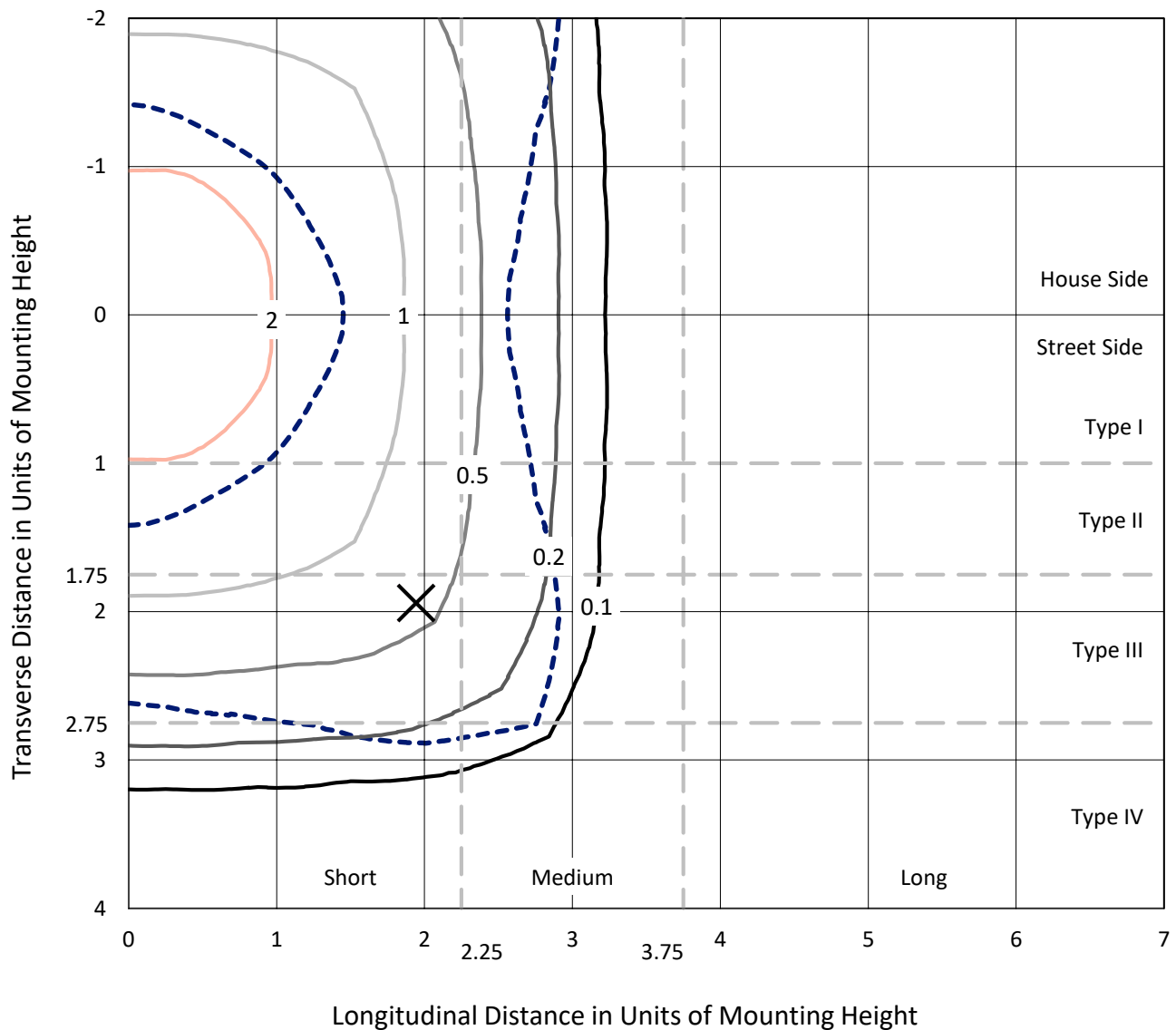
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

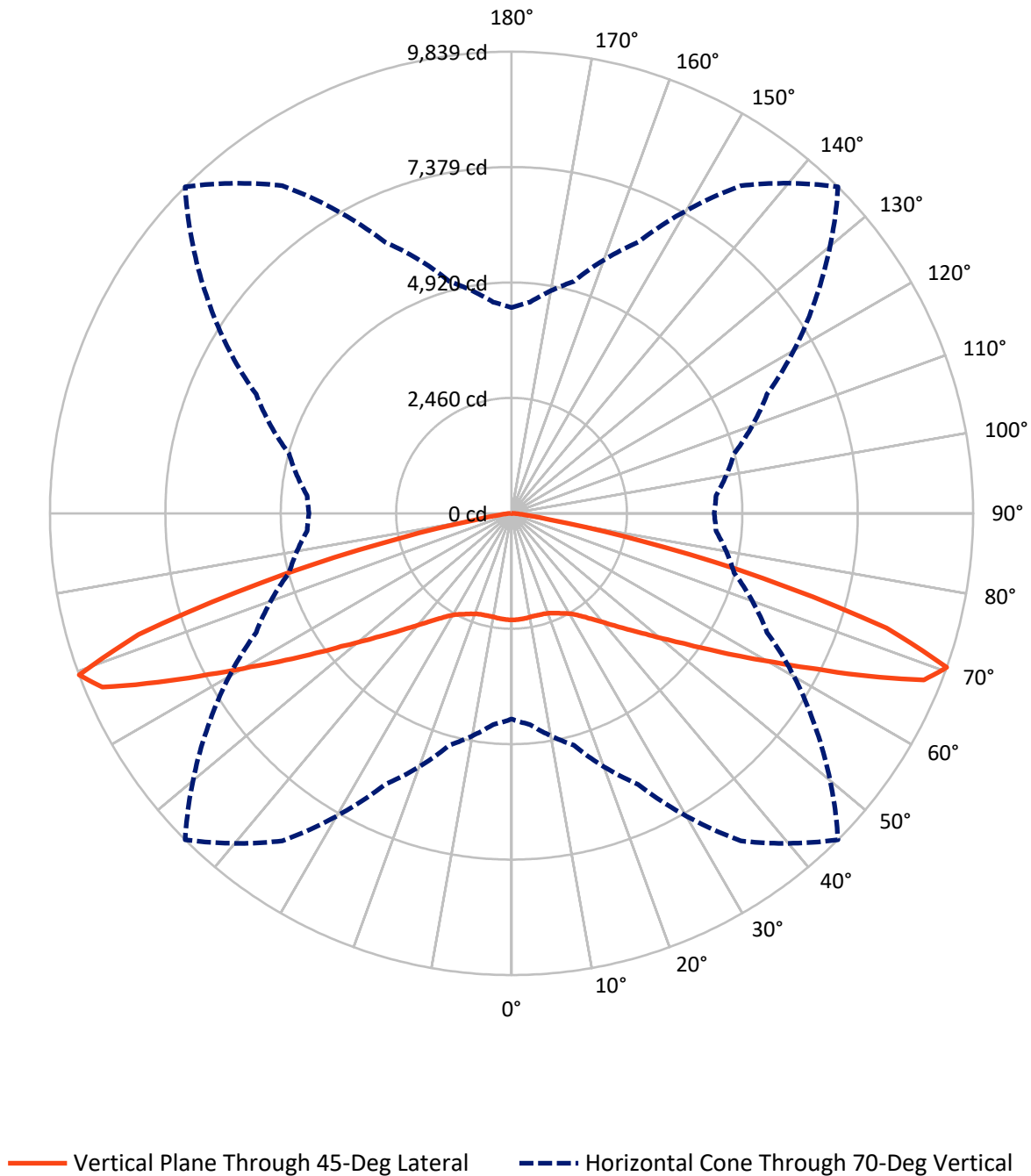
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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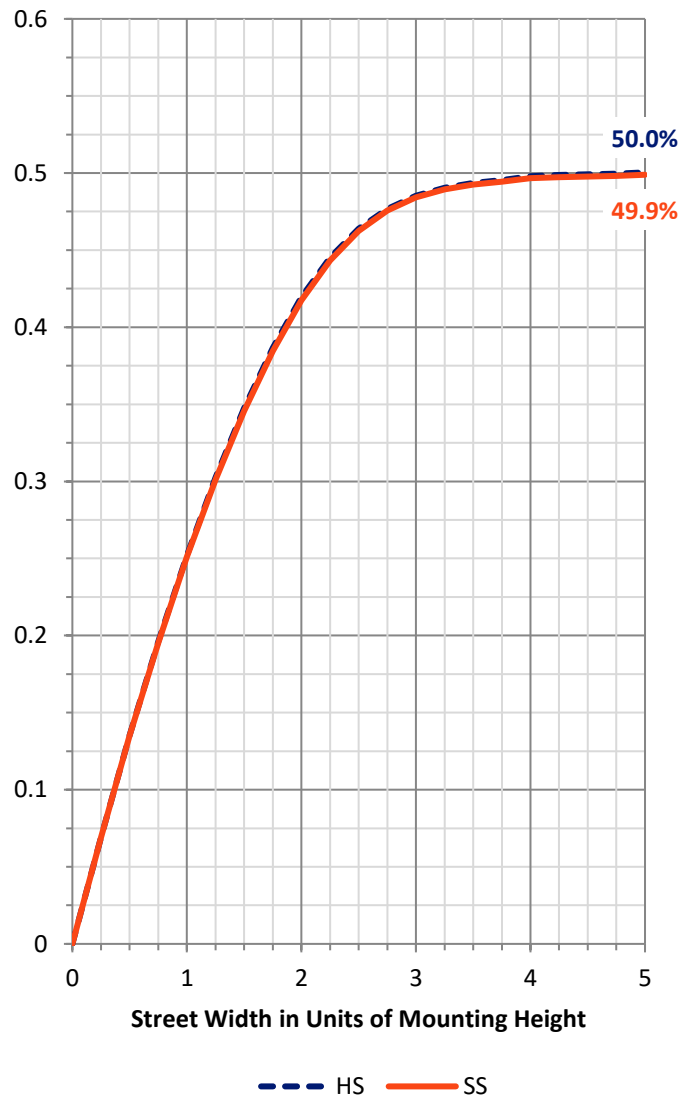
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10405.0	0.0	10405.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10405.0	0.0	10405.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20810.0	0.0	20810.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.3	1.0
10°-20°	631.9	3.0
20°-30°	1075.8	5.2
30°-40°	1706.1	8.2
40°-50°	2776.4	13.3
50°-60°	4577.8	22.0
60°-70°	6720.4	32.3
70°-80°	2971.7	14.3
80°-90°	134.6	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°	20810.0	100.0
0°-180°	20810.0	100.0

Coefficient of Utilization



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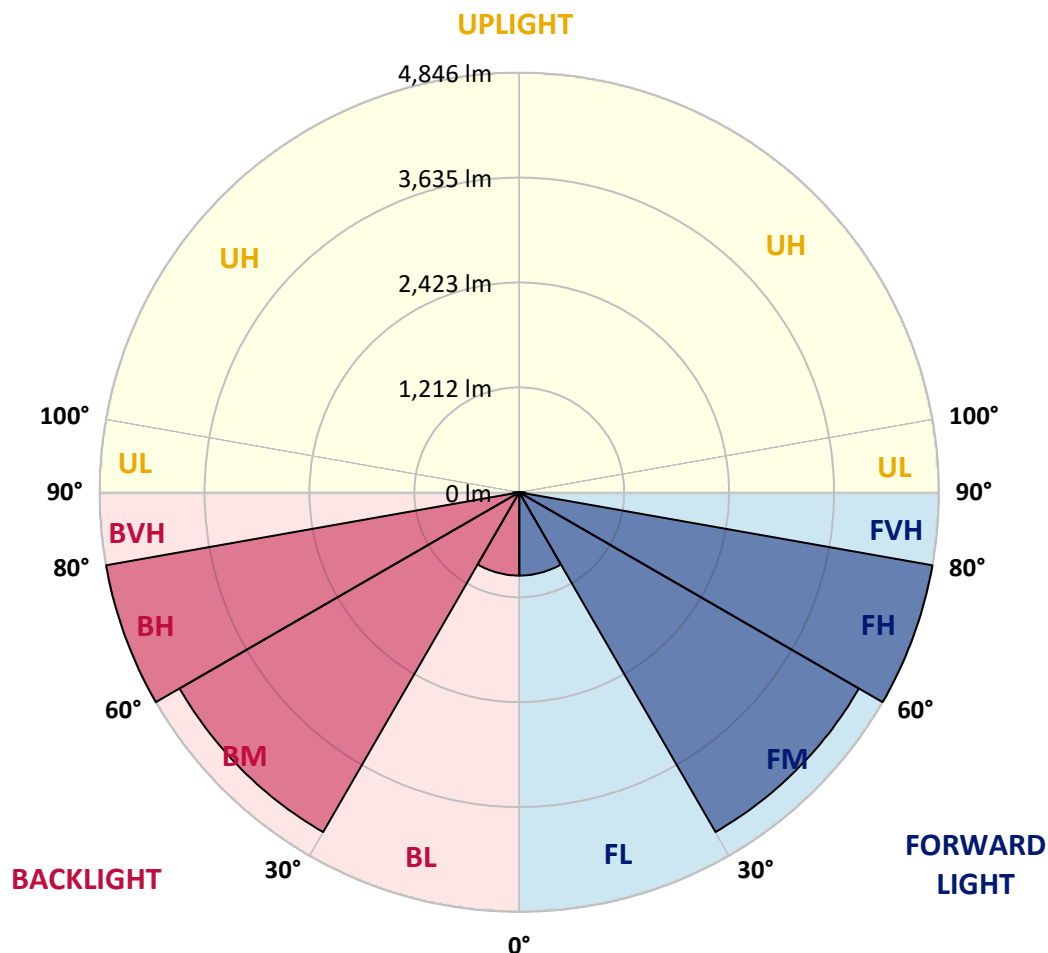
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	961.5	4.6			
FM	(30°-60°)	4530.2	21.8			
FH	(60°-80°)	4846.1	23.3			G2/5000
FVH	(80°-90°)	67.3	0.3			G1/100
BL	(0°-30°)	961.5	4.6	B2/1000		
BM	(30°-60°)	4530.2	21.8	B3/5000		
BH	(60°-80°)	4846.1	23.3	B4/5000		G2/5000
BVH	(80°-90°)	67.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2272.8	2272.8	2272.8	2272.8	2272.8	2272.8	2272.8	2272.8	2272.8	2272.8	2272.8
2.5°	2269.3	2267.3	2272.1	2271.4	2267.3	2268.0	2268.0	2270.0	2270.0	2268.6	2268.6
5°	2261.1	2259.7	2265.2	2265.2	2261.1	2262.4	2263.8	2265.9	2265.2	2263.8	2263.1
7.5°	2250.7	2250.0	2255.6	2255.6	2252.8	2254.2	2252.8	2253.5	2252.1	2250.7	2248.7
10°	2233.5	2234.9	2239.7	2241.1	2241.1	2241.8	2240.4	2237.0	2234.9	2232.8	2230.8
12.5°	2217.7	2217.0	2223.9	2227.3	2232.8	2239.0	2234.9	2225.3	2221.1	2217.0	2215.6
15°	2207.3	2208.0	2214.9	2221.1	2230.8	2243.8	2239.0	2223.9	2215.6	2210.8	2209.4
17.5°	2205.3	2206.7	2215.6	2226.6	2237.0	2251.4	2248.7	2233.5	2219.7	2210.8	2208.7
20°	2210.1	2210.8	2224.6	2240.4	2258.3	2272.1	2265.9	2249.4	2230.8	2217.0	2213.5
22.5°	2219.1	2221.8	2239.0	2263.8	2291.4	2310.0	2302.4	2274.2	2245.2	2228.0	2223.2
25°	2247.3	2248.0	2271.4	2305.1	2338.2	2359.6	2350.6	2310.7	2273.5	2254.2	2248.0
27.5°	2305.8	2307.9	2331.3	2370.6	2398.8	2412.6	2407.1	2374.7	2343.0	2322.4	2324.4
30°	2390.5	2393.3	2419.5	2462.9	2480.1	2483.5	2482.1	2467.0	2438.1	2410.5	2412.6
32.5°	2493.9	2495.2	2530.4	2569.6	2583.4	2586.1	2583.4	2569.6	2535.2	2498.0	2500.1
35°	2626.8	2630.9	2664.7	2702.5	2713.6	2719.1	2714.2	2696.3	2660.5	2624.0	2622.6
37.5°	2790.7	2791.4	2826.5	2865.8	2879.5	2880.9	2875.4	2863.7	2818.9	2785.9	2783.8
40°	2980.8	2983.5	3024.9	3066.9	3072.4	3066.2	3073.8	3066.9	3020.7	2982.8	2989.0
42.5°	3212.2	3218.4	3268.0	3309.3	3293.5	3290.0	3294.8	3296.9	3259.7	3213.6	3209.4
45°	3481.5	3487.0	3549.0	3582.0	3571.7	3549.0	3558.6	3575.1	3523.5	3466.3	3471.8
47.5°	3788.6	3802.4	3868.5	3899.5	3874.0	3843.1	3861.7	3886.4	3825.8	3754.9	3751.5
50°	4130.3	4147.5	4235.6	4279.0	4253.5	4196.4	4227.4	4243.9	4156.4	4064.8	4057.2
52.5°	4494.6	4511.8	4622.7	4712.2	4695.7	4606.8	4650.2	4633.0	4532.5	4409.2	4399.5
55°	4907.1	4914.0	5033.9	5178.5	5195.0	5129.6	5126.8	5098.6	4949.8	4807.3	4800.4
57.5°	5331.4	5336.2	5491.2	5662.0	5739.8	5739.8	5662.7	5602.7	5405.1	5239.8	5222.6
60°	5789.4	5806.6	5978.1	6210.2	6392.0	6445.7	6309.4	6146.1	5931.3	5729.5	5709.5
62.5°	6197.1	6217.1	6479.5	6825.2	7117.2	7312.8	6979.5	6713.6	6322.4	5998.8	5960.9
65°	6248.8	6302.5	6684.7	7310.8	7964.4	8354.9	7715.7	7060.8	6347.9	5898.2	5859.6
67.5°	5706.7	5797.6	6314.2	7288.7	8639.3	9477.5	8186.1	6862.4	5890.6	5393.4	5350.7
70°	4385.1	4517.3	5113.1	6375.5	8522.9	9839.1	7891.4	6007.7	4911.3	4376.1	4316.2
72.5°	2405.7	2460.1	2995.9	4365.8	6832.8	8361.1	6582.1	4442.2	3257.0	2650.2	2549.6
75°	763.1	782.4	1055.1	1786.5	3865.1	5538.0	4181.2	2180.5	1200.4	885.0	874.7
77.5°	338.9	340.9	381.6	521.4	1331.3	2805.8	1599.2	593.7	409.1	357.4	369.2
80°	214.2	214.2	236.2	258.3	362.3	814.8	432.5	282.4	241.1	223.8	228.7
82.5°	102.6	113.6	153.6	165.3	199.0	274.1	221.8	184.6	161.2	119.8	111.6
85°	67.5	56.5	97.1	109.5	115.7	131.5	128.8	121.9	105.4	59.9	66.8
87.5°	30.3	28.9	50.3	46.1	43.4	33.1	49.6	61.3	59.2	29.6	29.6
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)