

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: P316398

Luminaire Tested: **GAN-SA4B-727-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316398
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-SA4B-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20252 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

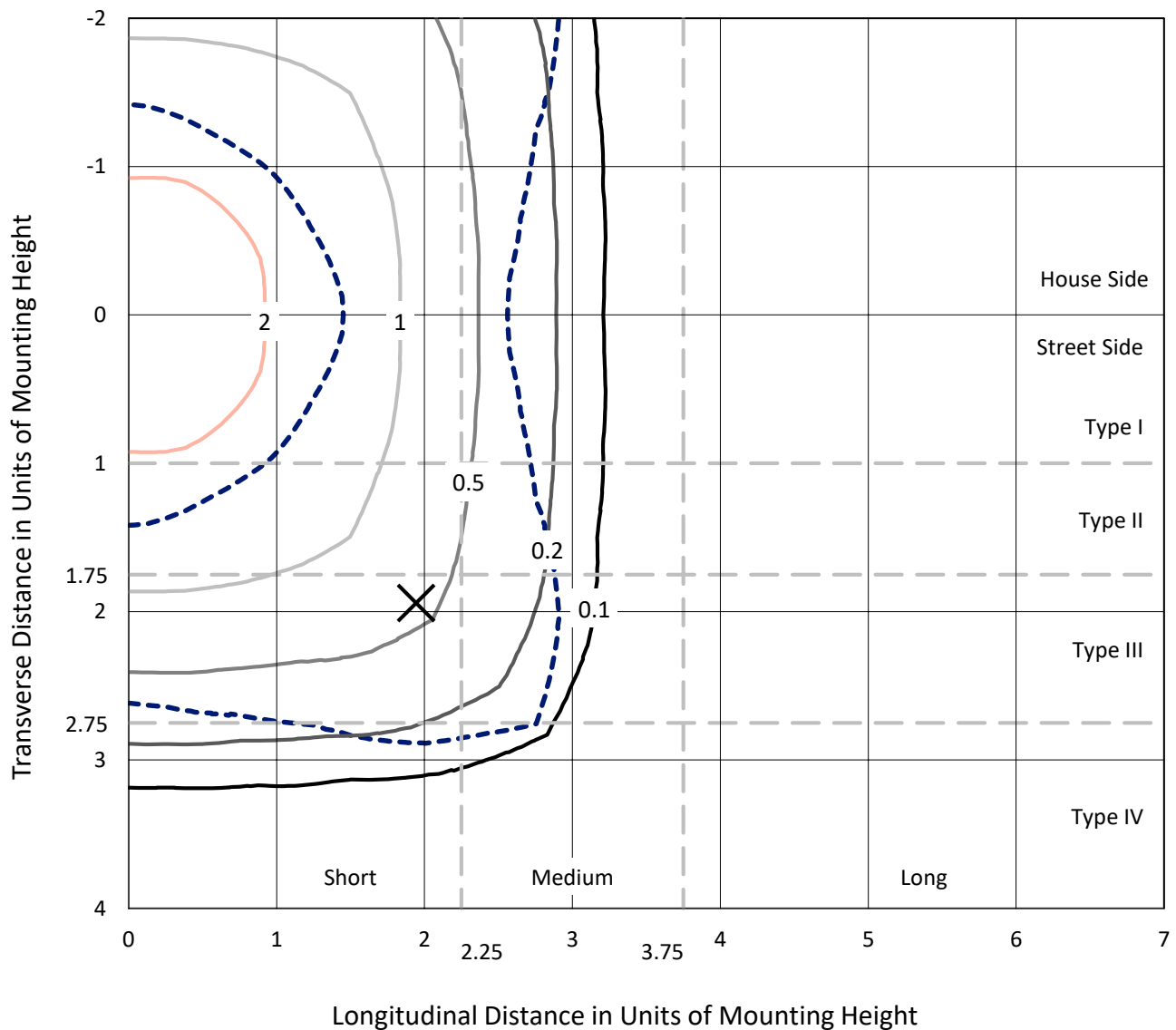
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

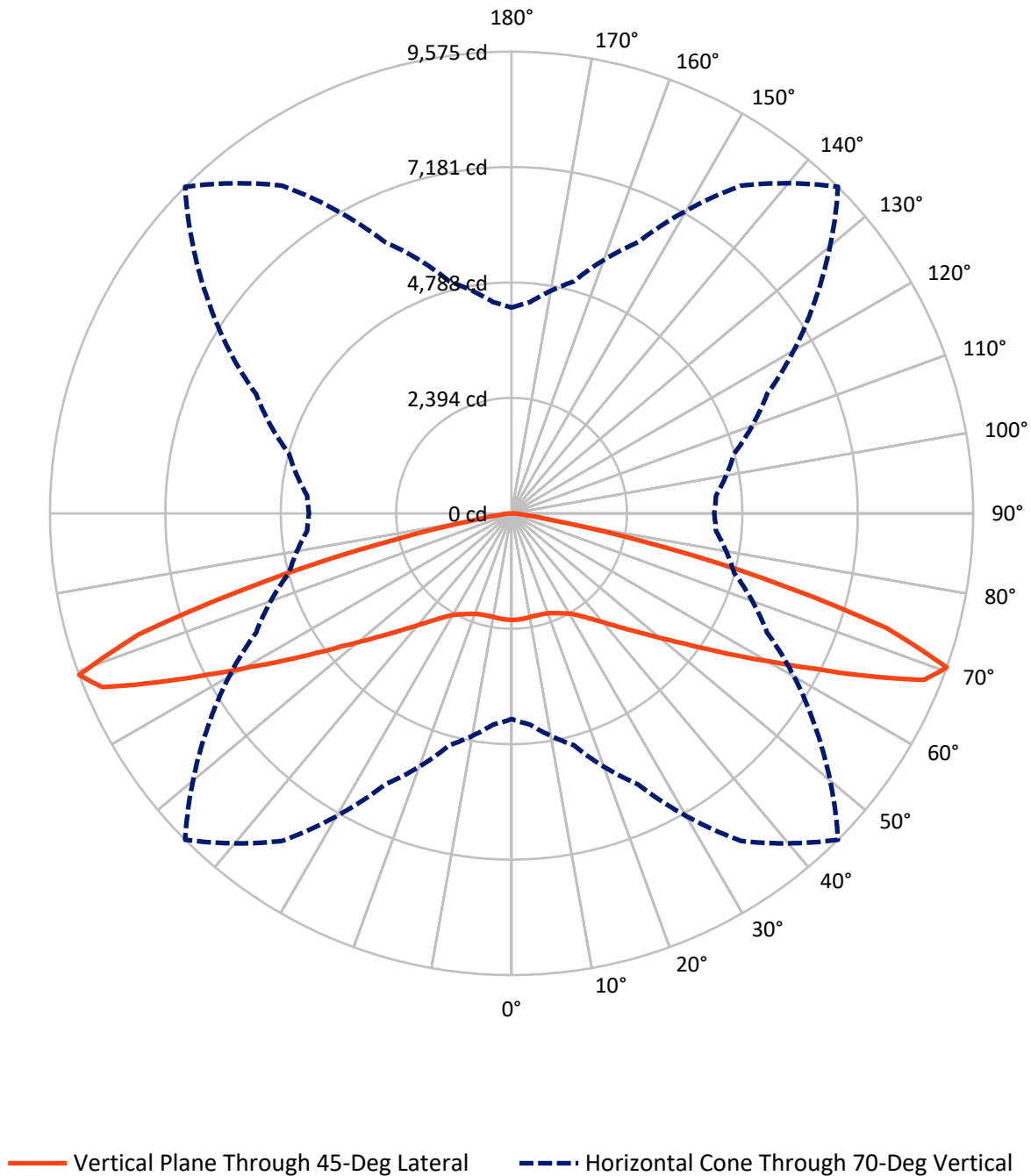
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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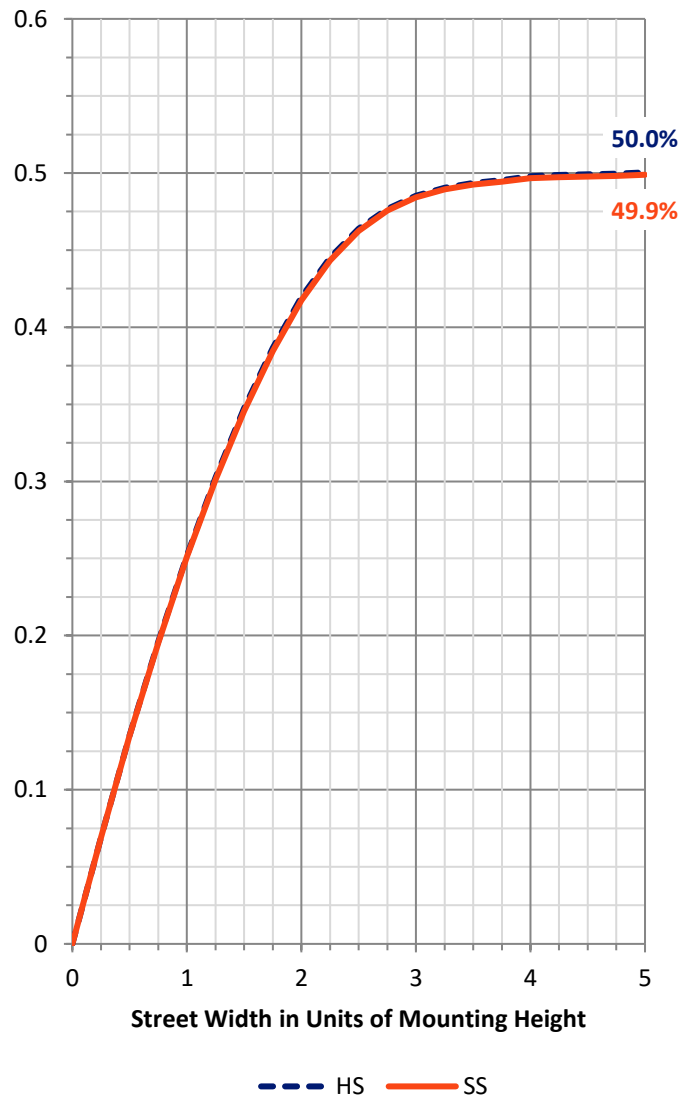
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10126.0	0.0	10126.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10126.0	0.0	10126.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20252.0	0.0	20252.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.5	1.0
10°-20°	615.0	3.0
20°-30°	1046.9	5.2
30°-40°	1660.4	8.2
40°-50°	2702.0	13.3
50°-60°	4455.1	22.0
60°-70°	6540.2	32.3
70°-80°	2892.0	14.3
80°-90°	131.0	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°	20252.0	100.0
0°-180°	20252.0	100.0

Coefficient of Utilization



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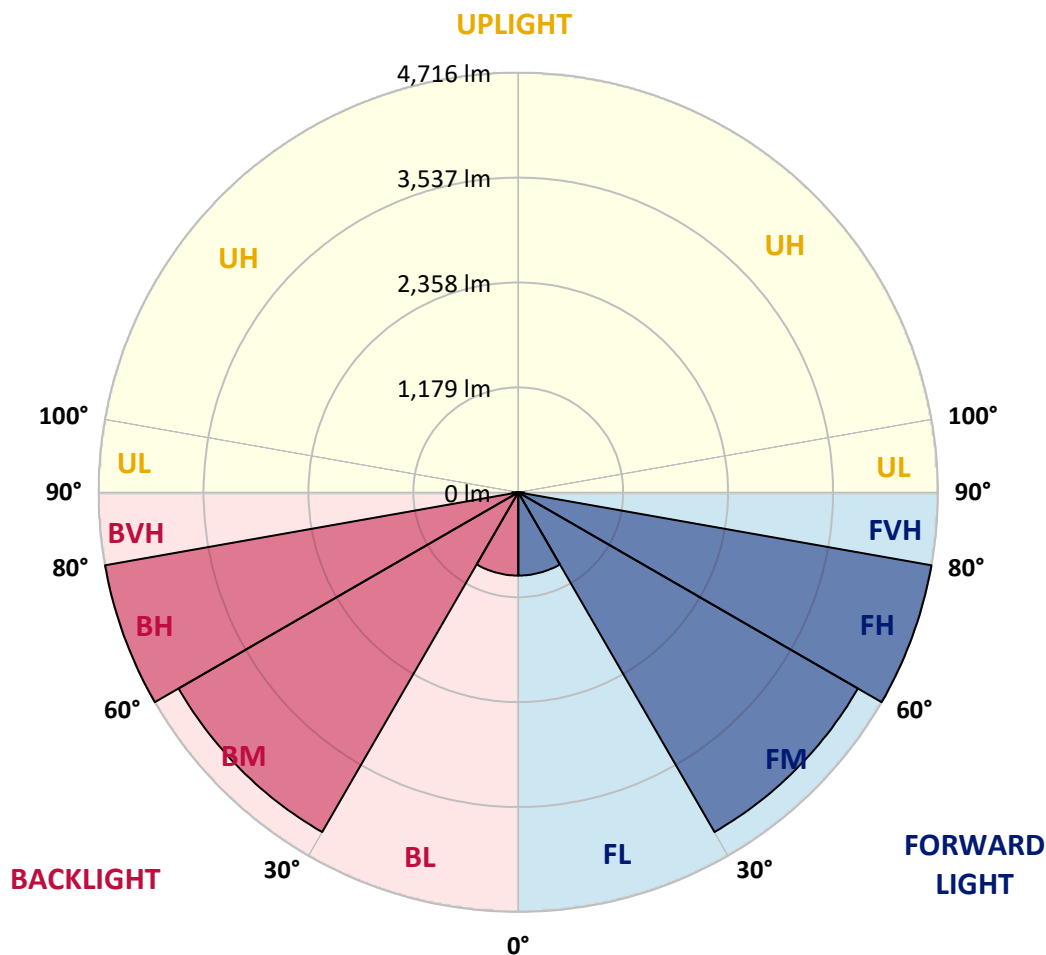
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	935.7	4.6			
FM	(30°-60°)	4408.7	21.8			
FH	(60°-80°)	4716.1	23.3			G2/5000
FVH	(80°-90°)	65.5	0.3			G1/100
BL	(0°-30°)	935.7	4.6	B2/1000		
BM	(30°-60°)	4408.7	21.8	B3/5000		
BH	(60°-80°)	4716.1	23.3	B4/5000		G2/5000
BVH	(80°-90°)	65.5	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°	2211.8	2211.8	2211.8	2211.8	2211.8	2211.8	2211.8	2211.8	2211.8	2211.8	2211.8
2.5°	2208.5	2206.5	2211.2	2210.5	2206.5	2207.1	2207.1	2209.2	2209.2	2207.8	2207.8
5°	2200.4	2199.1	2204.5	2204.5	2200.4	2201.8	2203.1	2205.1	2204.5	2203.1	2202.5
7.5°	2190.4	2189.7	2195.1	2195.1	2192.4	2193.7	2192.4	2193.1	2191.7	2190.4	2188.4
10°	2173.6	2175.0	2179.7	2181.0	2181.0	2181.7	2180.3	2177.0	2175.0	2173.0	2170.9
12.5°	2158.2	2157.5	2164.2	2167.6	2173.0	2179.0	2175.0	2165.6	2161.6	2157.5	2156.2
15°	2148.2	2148.8	2155.5	2161.6	2170.9	2183.7	2179.0	2164.2	2156.2	2151.5	2150.2
17.5°	2146.1	2147.5	2156.2	2166.9	2177.0	2191.1	2188.4	2173.6	2160.2	2151.5	2149.5
20°	2150.8	2151.5	2164.9	2180.3	2197.8	2211.2	2205.1	2189.0	2170.9	2157.5	2154.2
22.5°	2159.6	2162.2	2179.0	2203.1	2229.9	2248.0	2240.7	2213.2	2185.0	2168.3	2163.6
25°	2187.0	2187.7	2210.5	2243.3	2275.5	2296.3	2287.6	2248.7	2212.5	2193.7	2187.7
27.5°	2244.0	2246.0	2268.8	2307.0	2334.5	2347.9	2342.5	2311.0	2280.2	2260.1	2262.1
30°	2326.4	2329.1	2354.6	2396.8	2413.6	2416.9	2415.6	2400.8	2372.7	2345.9	2347.9
32.5°	2427.0	2428.3	2462.5	2500.7	2514.1	2516.8	2514.1	2500.7	2467.2	2431.0	2433.0
35°	2556.3	2560.4	2593.2	2630.1	2640.8	2646.2	2641.5	2624.0	2589.2	2553.7	2552.3
37.5°	2715.9	2716.5	2750.7	2788.9	2802.3	2803.7	2798.3	2786.9	2743.3	2711.2	2709.2
40°	2900.9	2903.5	2943.7	2984.6	2990.0	2984.0	2991.3	2984.6	2939.7	2902.9	2908.9
42.5°	3126.1	3132.1	3180.3	3220.6	3205.1	3201.8	3206.5	3208.5	3172.3	3127.4	3123.4
45°	3388.1	3393.5	3453.8	3486.0	3475.9	3453.8	3463.2	3479.3	3429.0	3373.4	3378.7
47.5°	3687.1	3700.5	3764.8	3795.0	3770.2	3740.0	3758.1	3782.2	3723.3	3654.2	3650.9
50°	4019.5	4036.3	4122.1	4164.3	4139.5	4083.8	4114.0	4130.1	4045.0	3955.8	3948.5
52.5°	4374.1	4390.8	4498.7	4585.9	4569.8	4483.3	4525.5	4508.8	4410.9	4291.0	4281.6
55°	4775.5	4782.3	4898.9	5039.6	5055.7	4992.0	4989.4	4961.9	4817.1	4678.4	4671.7
57.5°	5188.4	5193.1	5343.9	5510.1	5585.9	5585.9	5510.8	5452.5	5260.1	5099.3	5082.5
60°	5634.1	5650.9	5817.8	6043.7	6220.6	6272.9	6140.2	5981.3	5772.2	5575.8	5556.4
62.5°	6030.9	6050.4	6305.7	6642.2	6926.4	7116.7	6792.3	6533.6	6152.9	5837.9	5801.0
65°	6081.2	6133.5	6505.5	7114.7	7750.8	8130.8	7508.8	6871.4	6177.7	5740.0	5702.5
67.5°	5553.7	5642.2	6144.9	7093.3	8407.6	9223.3	7966.6	6678.4	5732.7	5248.7	5207.2
70°	4267.5	4396.2	4976.0	6204.5	8294.4	9575.2	7679.8	5846.6	4779.6	4258.8	4200.5
72.5°	2341.2	2394.1	2915.6	4248.7	6649.6	8136.9	6405.6	4323.1	3169.6	2579.1	2481.3
75°	742.6	761.4	1026.8	1738.6	3761.5	5389.5	4069.1	2122.0	1168.3	861.3	851.2
77.5°	329.8	331.8	371.3	507.4	1295.6	2730.6	1556.3	577.8	398.1	347.9	359.3
80°	208.4	208.4	229.9	251.3	352.6	792.9	420.9	274.8	234.6	217.8	222.5
82.5°	99.9	110.6	149.5	160.9	193.7	266.8	215.8	179.6	156.8	116.6	108.6
85°	65.7	55.0	94.5	106.6	112.6	128.0	125.3	118.6	102.5	58.3	65.0
87.5°	29.5	28.2	48.9	44.9	42.2	32.2	48.3	59.7	57.6	28.8	28.8
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)