

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: P316943

Luminaire Tested: **GAN-SA9D-827-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316943
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52599 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

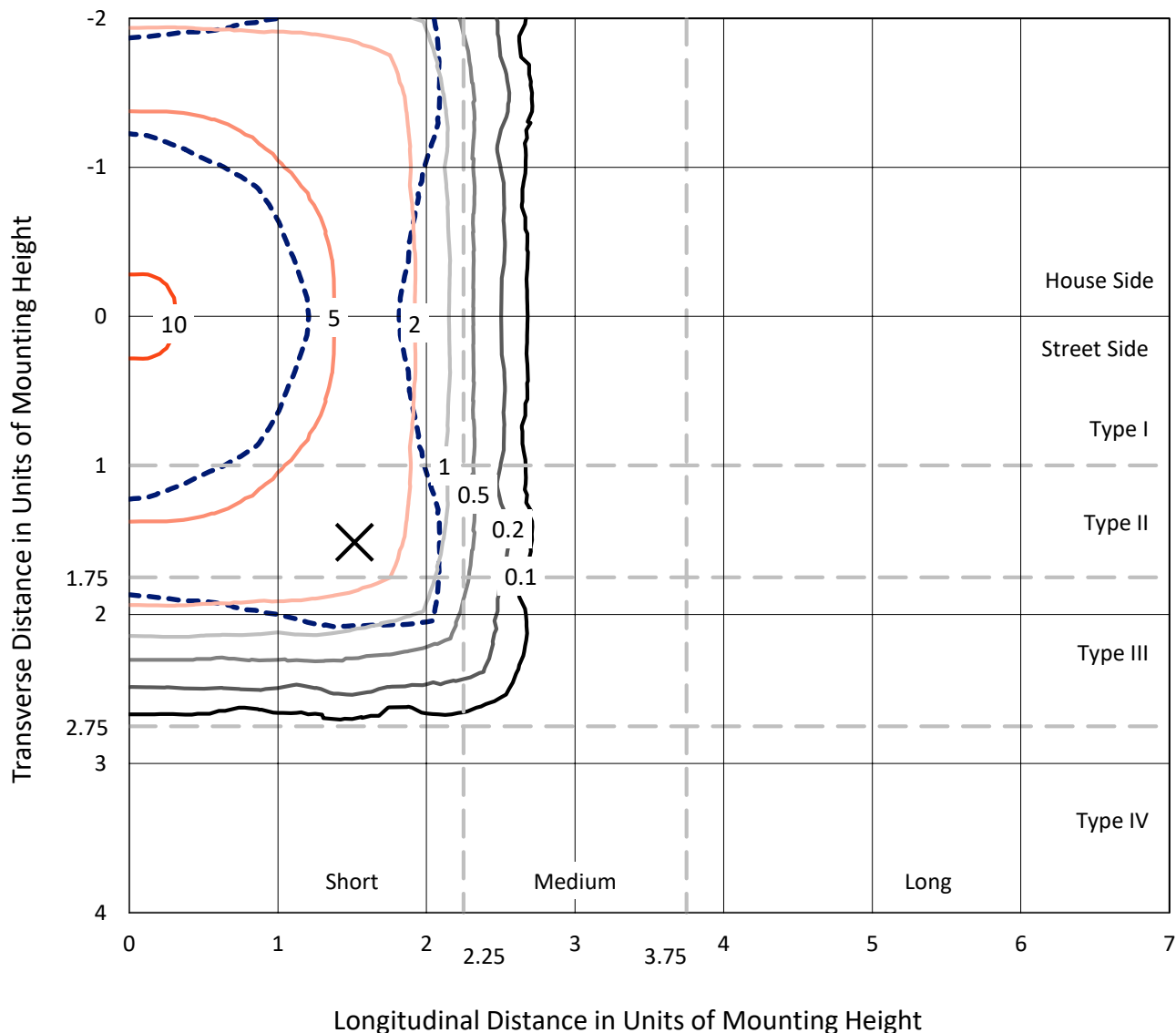
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

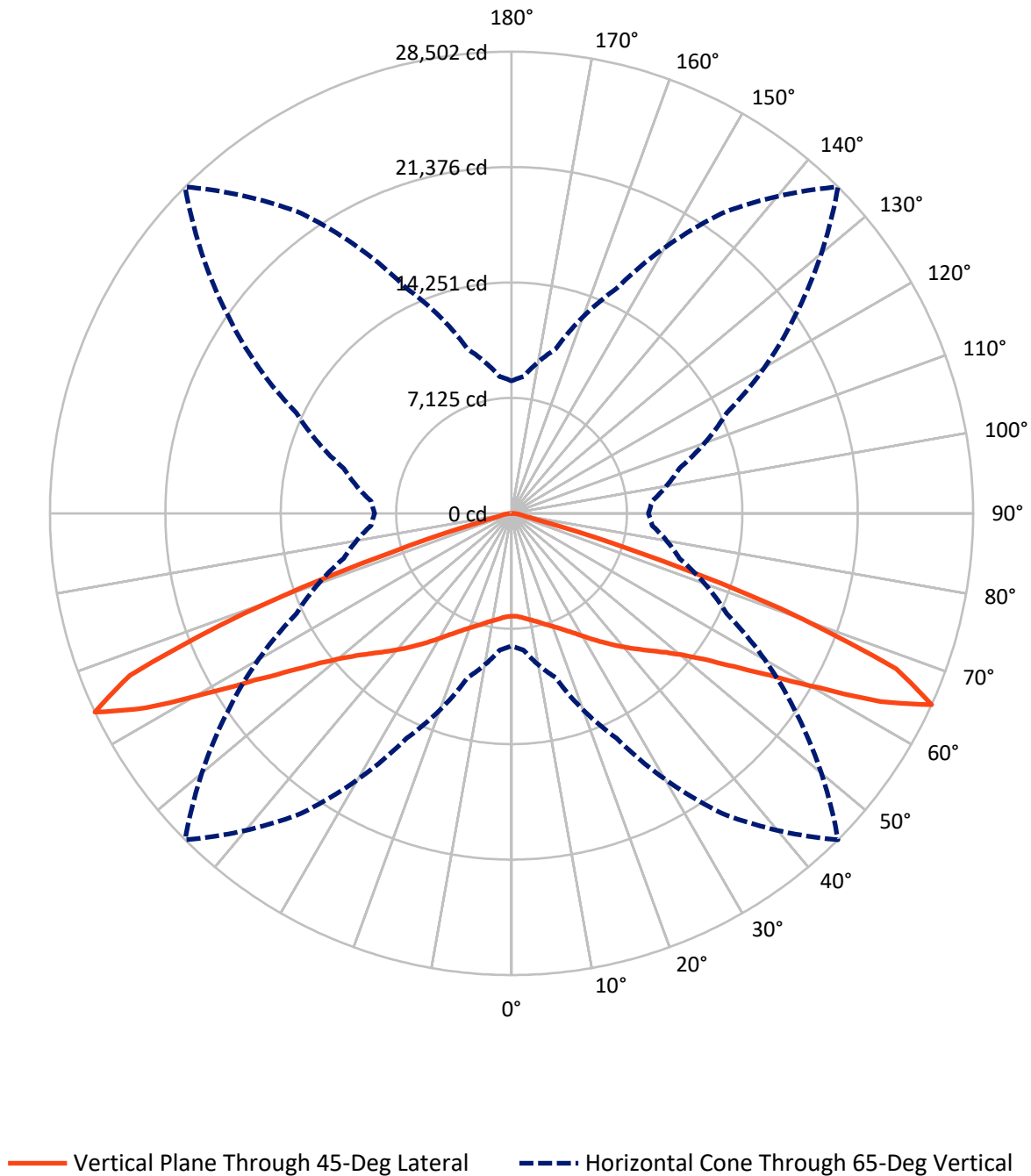
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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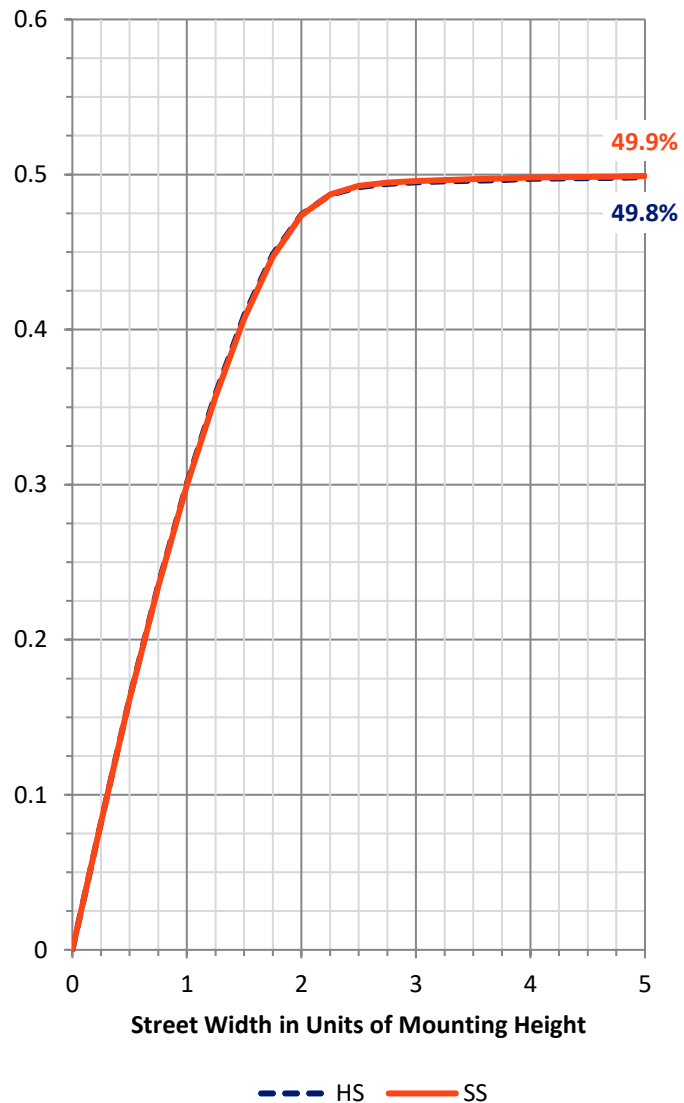
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26299.5	0.0	26299.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26299.5	0.0	26299.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	52599.0	0.0	52599.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.2	1.2
10°-20°	2003.2	3.8
20°-30°	3758.4	7.1
30°-40°	6215.6	11.8
40°-50°	9627.1	18.3
50°-60°	14765.2	28.1
60°-70°	13777.6	26.2
70°-80°	1603.5	3.0
80°-90°	225.3	0.4
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°	52599.0	100.0
0°-180°	52599.0	100.0

Coefficient of Utilization



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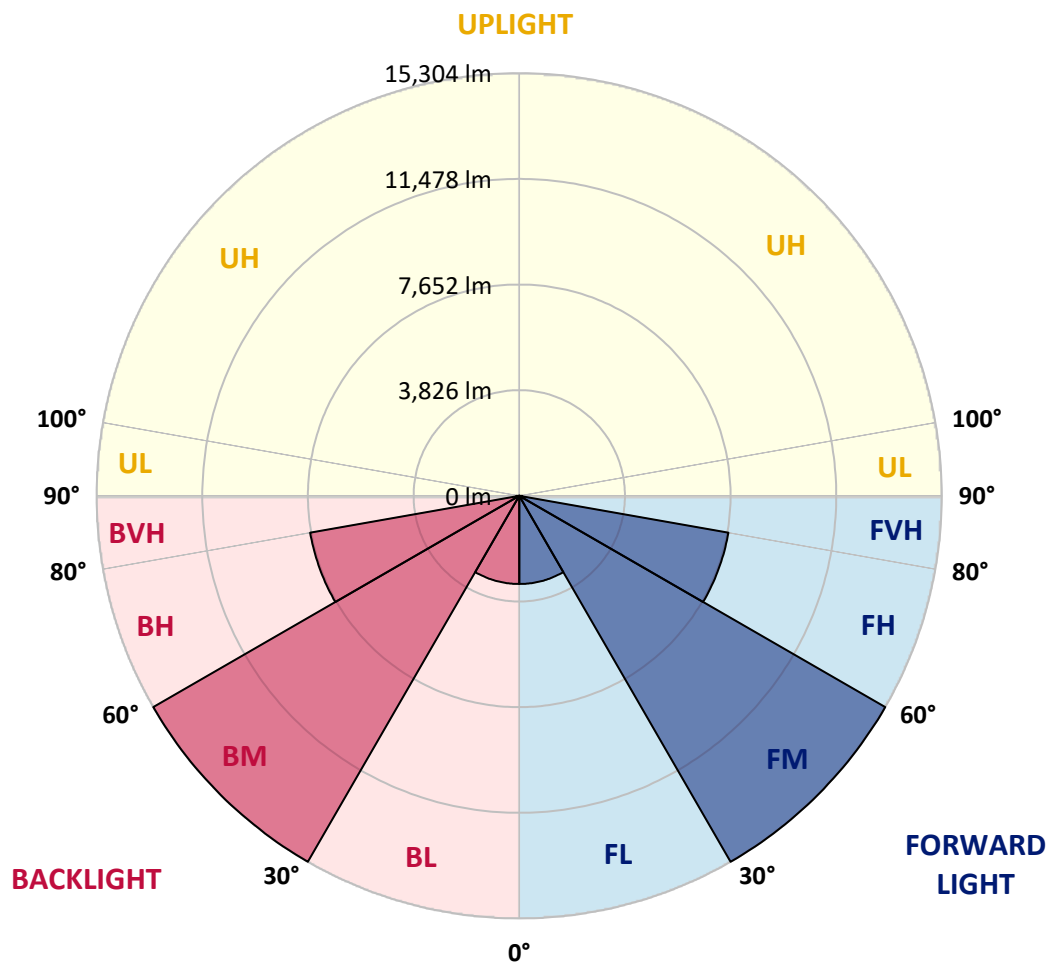
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3192.4	6.1			
FM	(30°-60°)	15303.9	29.1			
FH	(60°-80°)	7690.6	14.6			G4/12000
FVH	(80°-90°)	112.7	0.2			G2/225
BL	(0°-30°)	3192.4	6.1	B4/5000		
BM	(30°-60°)	15303.9	29.1	B5		
BH	(60°-80°)	7690.6	14.6	B5		G4/12000
BVH	(80°-90°)	112.7	0.2			G2/225
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°	6352.0	6352.0	6352.0	6352.0	6352.0	6352.0	6352.0	6352.0	6352.0	6352.0	6352.0
2.5°	6372.9	6369.5	6372.9	6374.7	6364.2	6369.5	6367.7	6376.4	6379.9	6376.4	6376.4
5°	6446.3	6441.0	6448.0	6456.8	6442.8	6446.3	6441.0	6451.5	6455.0	6448.0	6453.3
7.5°	6547.5	6549.3	6556.3	6572.0	6563.3	6570.2	6559.8	6561.5	6559.8	6549.3	6551.0
10°	6657.5	6659.3	6671.5	6692.5	6696.0	6696.0	6689.0	6683.7	6676.8	6669.8	6671.5
12.5°	6790.2	6799.0	6807.7	6833.9	6833.9	6847.9	6844.4	6830.4	6818.2	6807.7	6807.7
15°	6970.1	6968.3	6978.8	7005.0	7017.2	7039.9	7039.9	7020.7	7005.0	6994.5	6991.0
17.5°	7158.7	7163.9	7170.9	7202.3	7221.5	7247.7	7251.2	7235.5	7225.0	7211.0	7202.3
20°	7378.7	7387.4	7415.3	7427.5	7445.0	7469.4	7478.2	7474.7	7464.2	7457.2	7459.0
22.5°	7635.3	7658.0	7675.5	7692.9	7713.9	7731.3	7740.1	7752.3	7741.8	7736.6	7733.1
25°	7946.1	7961.8	7996.7	8028.2	8042.1	8047.4	8057.9	8075.3	8073.6	8061.3	8061.3
27.5°	8298.8	8328.5	8372.1	8417.5	8417.5	8400.1	8435.0	8464.7	8454.2	8438.5	8417.5
30°	8726.6	8754.5	8805.1	8868.0	8836.6	8824.3	8871.5	8925.6	8909.9	8883.7	8880.2
32.5°	9187.5	9213.7	9280.1	9348.2	9308.0	9290.5	9341.2	9419.7	9391.8	9339.4	9308.0
35°	9686.9	9713.1	9807.4	9889.4	9821.3	9791.6	9833.5	9919.1	9870.2	9772.4	9748.0
37.5°	10229.9	10243.9	10366.1	10449.9	10402.7	10324.2	10376.6	10439.4	10397.5	10278.8	10231.6
40°	10793.9	10844.5	10985.9	11083.7	11001.6	10877.7	10965.0	11052.3	10989.4	10837.5	10757.2
42.5°	11452.1	11490.5	11679.1	11766.4	11633.7	11459.1	11577.8	11696.5	11633.7	11487.0	11417.2
45°	12136.5	12195.9	12421.1	12508.4	12316.4	12094.6	12239.6	12447.3	12442.1	12230.8	12157.5
47.5°	12882.1	12941.4	13210.3	13325.6	13117.8	12821.0	13025.3	13318.6	13297.6	13065.4	13006.1
50°	13742.9	13805.7	14141.0	14285.9	14092.1	13746.4	14053.7	14312.1	14273.7	13987.3	13992.5
52.5°	14823.7	14820.2	15237.5	15488.9	15289.8	14984.3	15267.1	15518.6	15359.7	14963.3	14951.1
55°	15770.0	15827.6	16344.4	16821.1	16808.9	16691.9	16805.4	16815.9	16361.9	15834.6	15770.0
57.5°	16391.6	16501.6	17229.7	18092.2	18738.2	18893.6	18673.6	18006.6	16943.3	16100.0	15997.0
60°	16009.2	16176.8	17320.4	19078.7	20981.8	21895.0	20653.6	18584.6	16491.1	15316.0	15176.3
62.5°	13428.6	13711.4	15385.9	18602.0	22912.9	25582.6	22088.8	17657.4	14692.7	13074.1	12834.9
65°	8178.3	8476.9	10495.3	15310.8	22600.4	28501.9	21434.1	14656.0	10724.0	8710.9	8452.4
67.5°	2725.5	2812.8	4001.9	8462.9	17762.2	25608.8	17791.9	8773.7	4667.1	3093.9	3003.1
70°	1066.8	1075.5	1269.4	2453.1	8387.8	17589.3	9255.6	2496.8	1327.0	1049.4	1072.1
72.5°	784.0	787.5	841.6	1024.9	2186.0	7748.8	2264.6	1030.1	818.9	735.1	735.1
75°	630.3	630.3	668.7	747.3	979.5	1777.4	993.5	738.6	640.8	586.7	579.7
77.5°	497.6	508.1	537.8	588.4	663.5	855.5	687.9	584.9	516.8	466.2	455.7
80°	370.2	380.6	429.5	454.0	476.7	593.6	508.1	457.5	408.6	349.2	338.7
82.5°	242.7	253.2	314.3	328.3	323.0	387.6	342.2	337.0	300.3	225.2	214.8
85°	158.9	162.4	209.5	218.3	200.8	176.3	218.3	230.5	209.5	146.7	141.4
87.5°	75.1	75.1	106.5	99.5	90.8	73.3	99.5	117.0	118.7	71.6	69.8
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)