

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: P316736

Luminaire Tested: **GAN-SA2D-727-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316736
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-SA2D-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 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: 13696 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

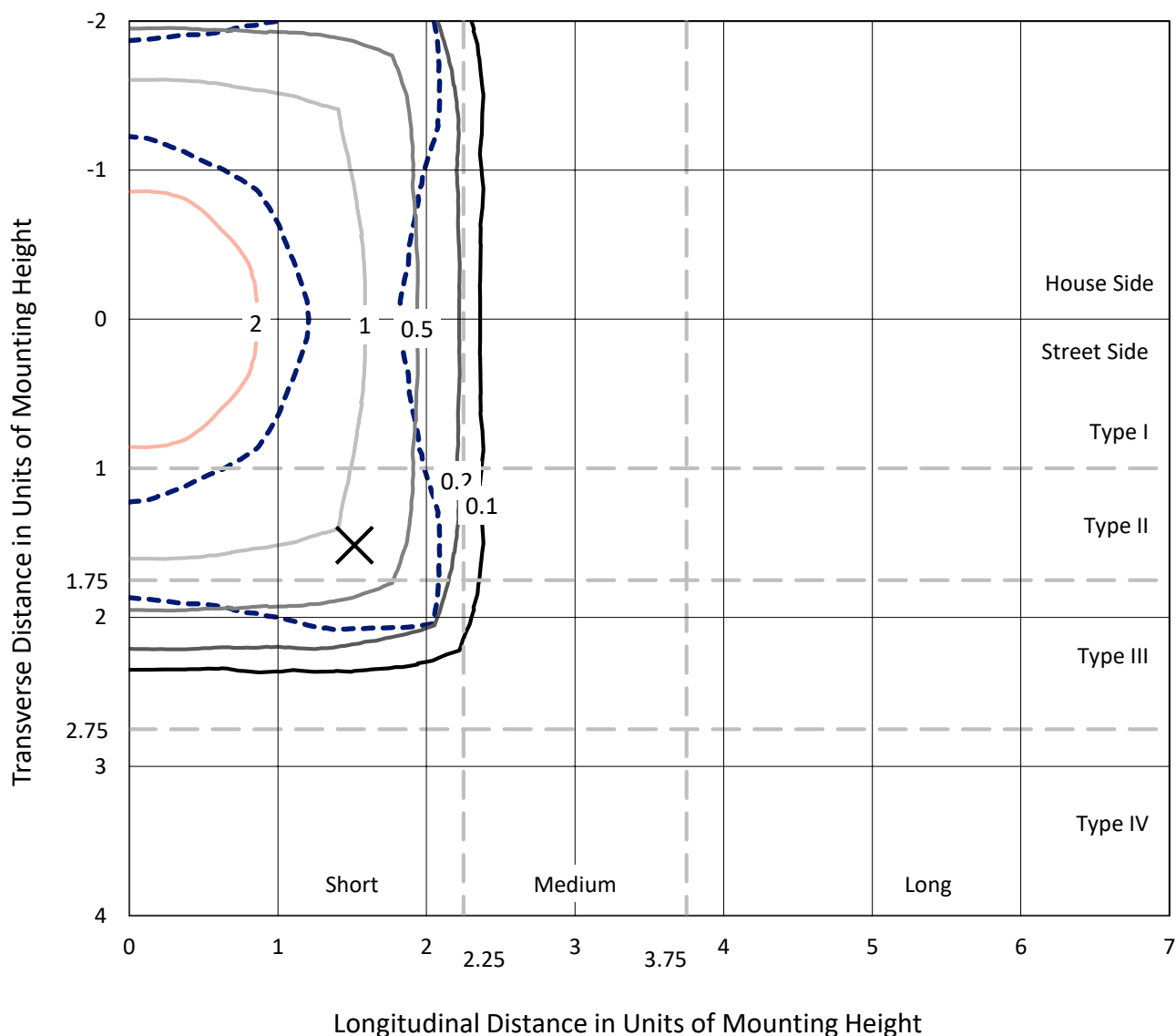
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

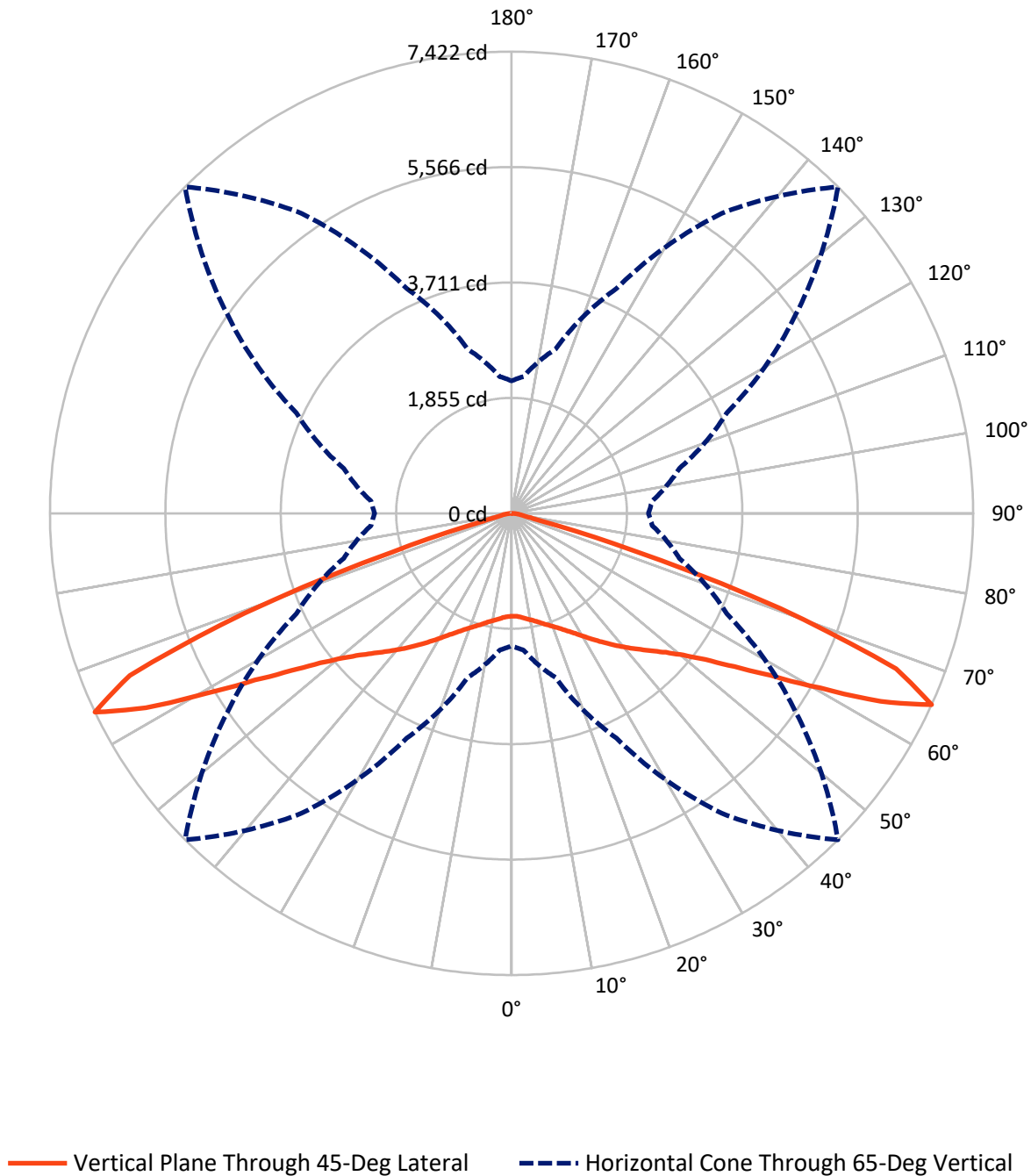
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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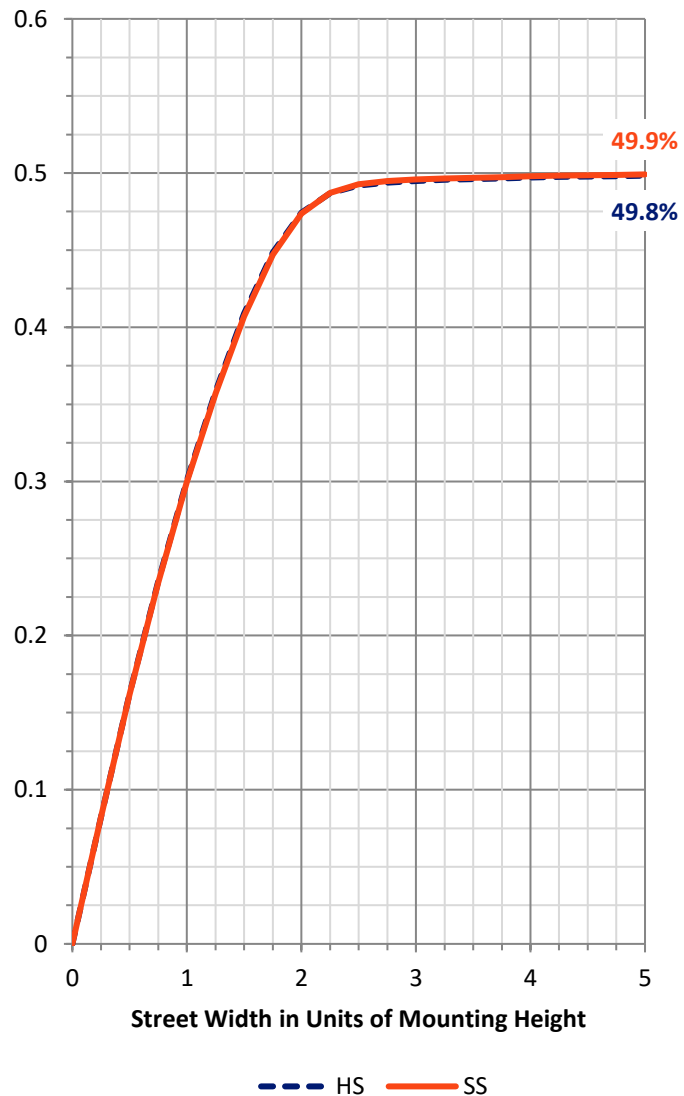
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6848.0	0.0	6848.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6848.0	0.0	6848.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13696.0	0.0	13696.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.3	1.2
10°-20°	521.6	3.8
20°-30°	978.6	7.1
30°-40°	1618.4	11.8
40°-50°	2506.7	18.3
50°-60°	3844.6	28.1
60°-70°	3587.5	26.2
70°-80°	417.5	3.0
80°-90°	58.7	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°	13696.0	100.0
0°-180°	13696.0	100.0

Coefficient of Utilization



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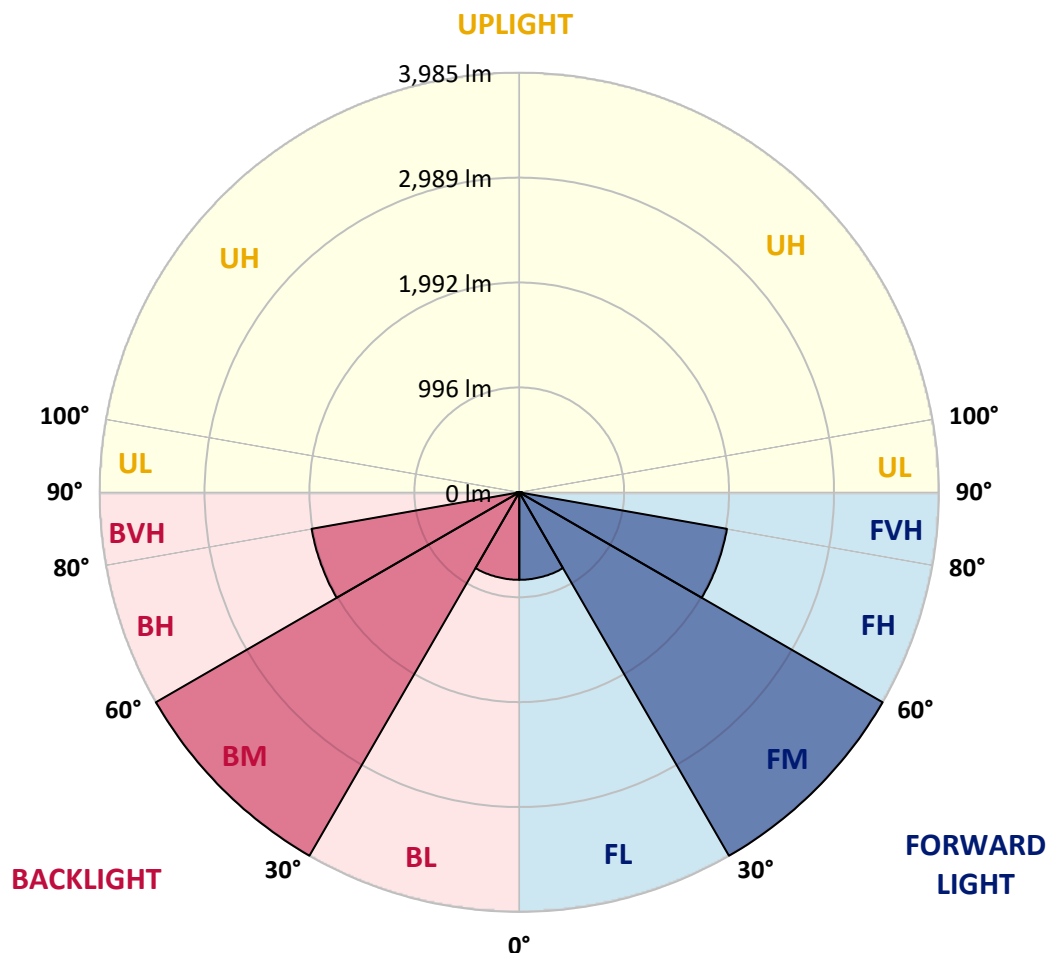
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	831.2	6.1			
FM	(30°-60°)	3984.9	29.1			
FH	(60°-80°)	2002.5	14.6			G2/5000
FVH	(80°-90°)	29.3	0.2			G1/100
BL	(0°-30°)	831.2	6.1	B2/1000		
BM	(30°-60°)	3984.9	29.1	B3/5000		
BH	(60°-80°)	2002.5	14.6	B3/2500		G2/5000
BVH	(80°-90°)	29.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0
2.5°	1659.4	1658.5	1659.4	1659.9	1657.1	1658.5	1658.1	1660.3	1661.2	1660.3	1660.3
5°	1678.5	1677.2	1679.0	1681.2	1677.6	1678.5	1677.2	1679.9	1680.8	1679.0	1680.3
7.5°	1704.9	1705.3	1707.2	1711.2	1709.0	1710.8	1708.1	1708.5	1708.1	1705.3	1705.8
10°	1733.5	1734.0	1737.2	1742.6	1743.5	1743.5	1741.7	1740.3	1738.5	1736.7	1737.2
12.5°	1768.1	1770.4	1772.6	1779.4	1779.4	1783.1	1782.2	1778.5	1775.4	1772.6	1772.6
15°	1814.9	1814.5	1817.2	1824.0	1827.2	1833.1	1833.1	1828.1	1824.0	1821.3	1820.4
17.5°	1864.0	1865.4	1867.2	1875.4	1880.4	1887.2	1888.1	1884.0	1881.3	1877.6	1875.4
20°	1921.3	1923.6	1930.8	1934.0	1938.6	1944.9	1947.2	1946.3	1943.6	1941.7	1942.2
22.5°	1988.1	1994.0	1998.6	2003.1	2008.6	2013.1	2015.4	2018.6	2015.9	2014.5	2013.6
25°	2069.0	2073.1	2082.2	2090.4	2094.1	2095.4	2098.1	2102.7	2102.2	2099.1	2099.1
27.5°	2160.9	2168.6	2180.0	2191.8	2191.8	2187.3	2196.3	2204.1	2201.3	2197.3	2191.8
30°	2272.3	2279.5	2292.7	2309.1	2300.9	2297.7	2310.0	2324.1	2320.0	2313.2	2312.3
32.5°	2392.3	2399.1	2416.4	2434.1	2423.7	2419.1	2432.3	2452.8	2445.5	2431.8	2423.7
35°	2522.3	2529.1	2553.7	2575.1	2557.3	2549.6	2560.5	2582.8	2570.1	2544.6	2538.2
37.5°	2663.7	2667.3	2699.2	2721.0	2708.7	2688.3	2701.9	2718.3	2707.4	2676.4	2664.2
40°	2810.6	2823.7	2860.6	2886.0	2864.7	2832.4	2855.1	2877.8	2861.5	2821.9	2801.0
42.5°	2982.0	2992.0	3041.1	3063.8	3029.2	2983.8	3014.7	3045.6	3029.2	2991.0	2972.9
45°	3160.2	3175.6	3234.3	3257.0	3207.0	3149.3	3187.0	3241.1	3239.7	3184.7	3165.6
47.5°	3354.3	3369.8	3439.8	3469.8	3415.7	3338.4	3391.6	3468.0	3462.5	3402.0	3386.6
50°	3578.4	3594.8	3682.1	3719.8	3669.4	3579.3	3659.4	3726.7	3716.6	3642.1	3643.5
52.5°	3859.9	3858.9	3967.6	4033.1	3981.2	3901.7	3975.3	4040.8	3999.4	3896.2	3893.0
55°	4106.3	4121.3	4255.8	4380.0	4376.8	4346.3	4375.9	4378.6	4260.4	4123.1	4106.3
57.5°	4268.1	4296.8	4486.3	4710.9	4879.2	4919.6	4862.3	4688.7	4411.8	4192.2	4165.4
60°	4168.6	4212.2	4510.0	4967.8	5463.4	5701.1	5377.9	4839.1	4294.0	3988.1	3951.7
62.5°	3496.6	3570.3	4006.3	4843.7	5966.2	6661.3	5751.6	4597.7	3825.8	3404.3	3342.0
65°	2129.5	2207.3	2732.8	3986.7	5884.8	7421.5	5581.1	3816.2	2792.4	2268.2	2200.9
67.5°	709.7	732.4	1042.0	2203.6	4625.0	6668.1	4632.7	2284.5	1215.2	805.6	782.0
70°	277.8	280.1	330.5	638.8	2184.1	4580.0	2410.0	650.1	345.5	273.2	279.1
72.5°	204.1	205.0	219.1	266.9	569.2	2017.7	589.7	268.2	213.2	191.4	191.4
75°	164.1	164.1	174.1	194.6	255.1	462.8	258.7	192.3	166.9	152.8	150.9
77.5°	129.6	132.3	140.0	153.2	172.8	222.8	179.1	152.3	134.6	121.4	118.7
80°	96.4	99.1	111.8	118.2	124.1	154.6	132.3	119.1	106.4	90.9	88.2
82.5°	63.2	65.9	81.8	85.5	84.1	100.9	89.1	87.7	78.2	58.6	55.9
85°	41.4	42.3	54.6	56.8	52.3	45.9	56.8	60.0	54.6	38.2	36.8
87.5°	19.5	19.5	27.7	25.9	23.6	19.1	25.9	30.5	30.9	18.6	18.2
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)