

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: P317028

Luminaire Tested: **GAN-SA4A-727-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-727-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16069 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

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



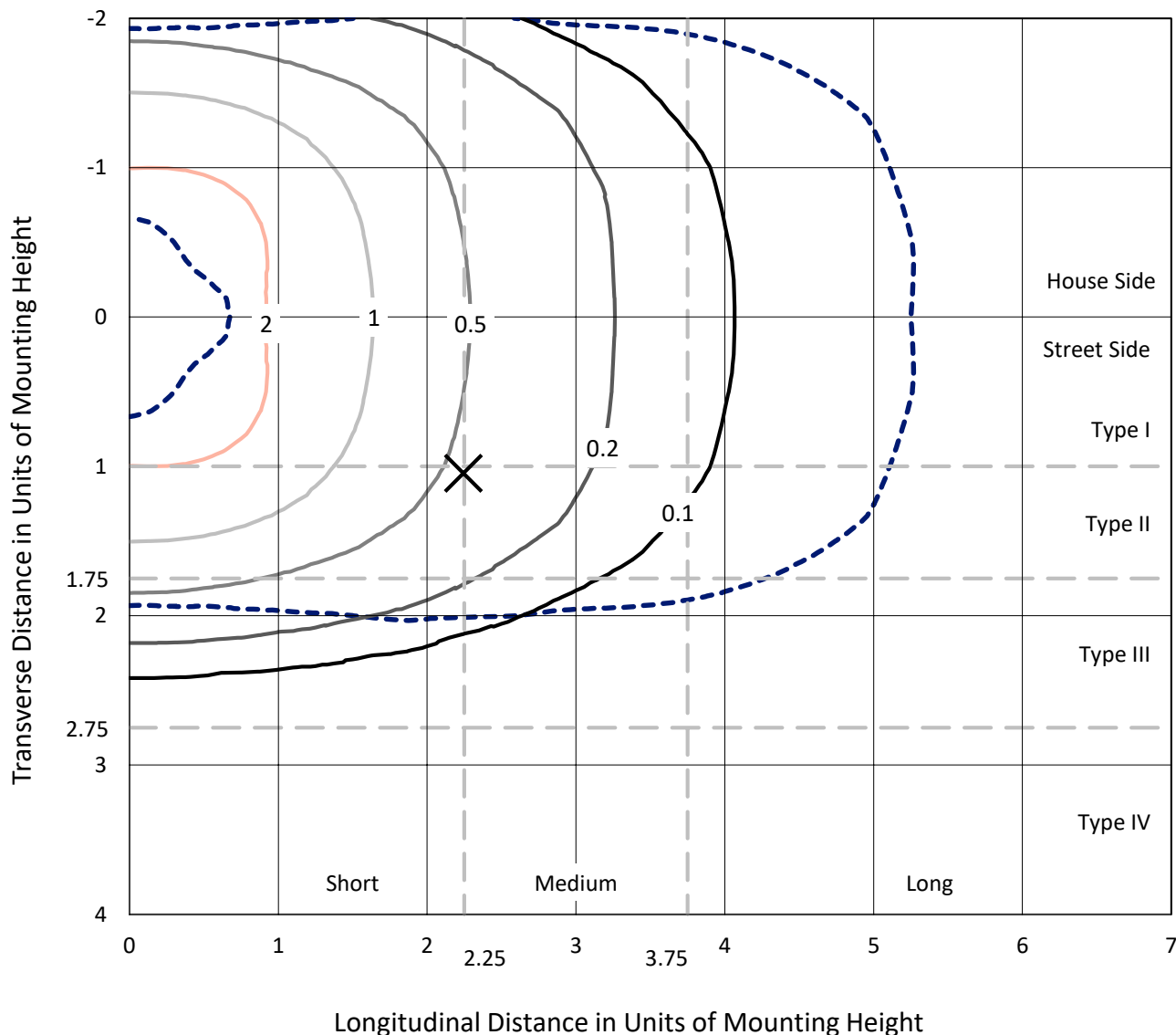
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

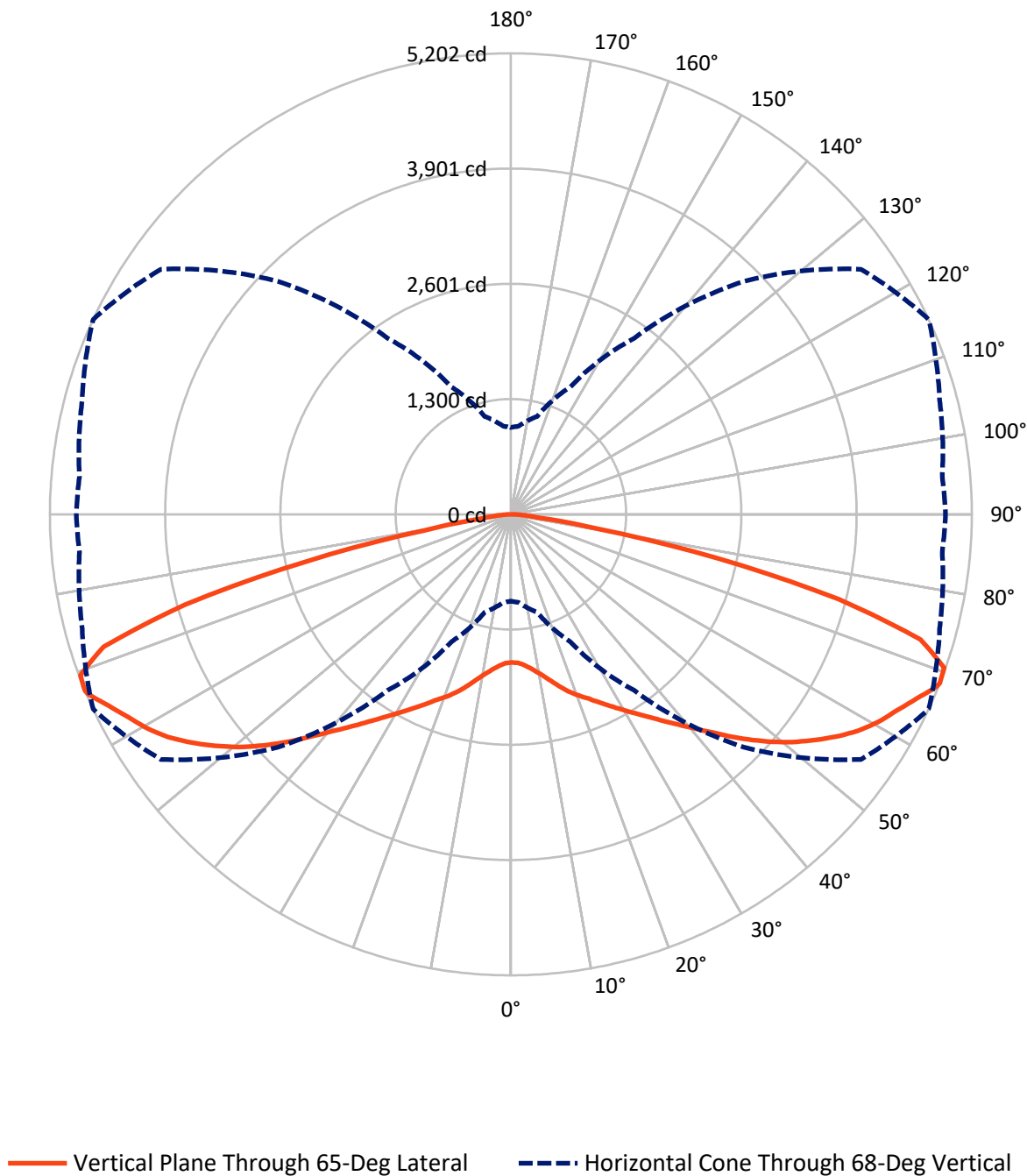


Based on 25 foot mounting height. Maximum calculated value = 3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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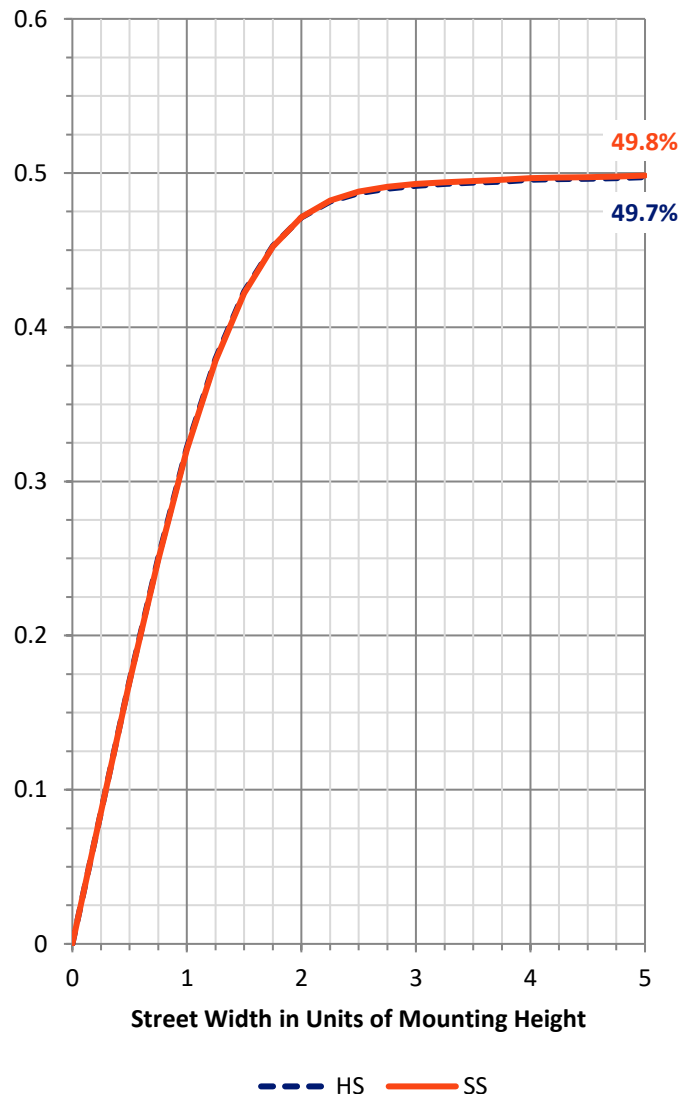
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8034.5	0.0	8034.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8034.5	0.0	8034.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16069.0	0.0	16069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.6	1.0
10°-20°	547.7	3.4
20°-30°	1068.0	6.6
30°-40°	1794.1	11.2
40°-50°	2826.8	17.6
50°-60°	3780.4	23.5
60°-70°	3675.1	22.9
70°-80°	2009.0	12.5
80°-90°	204.3	1.3
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°	16069.0	100.0
0°-180°	16069.0	100.0

Coefficient of Utilization



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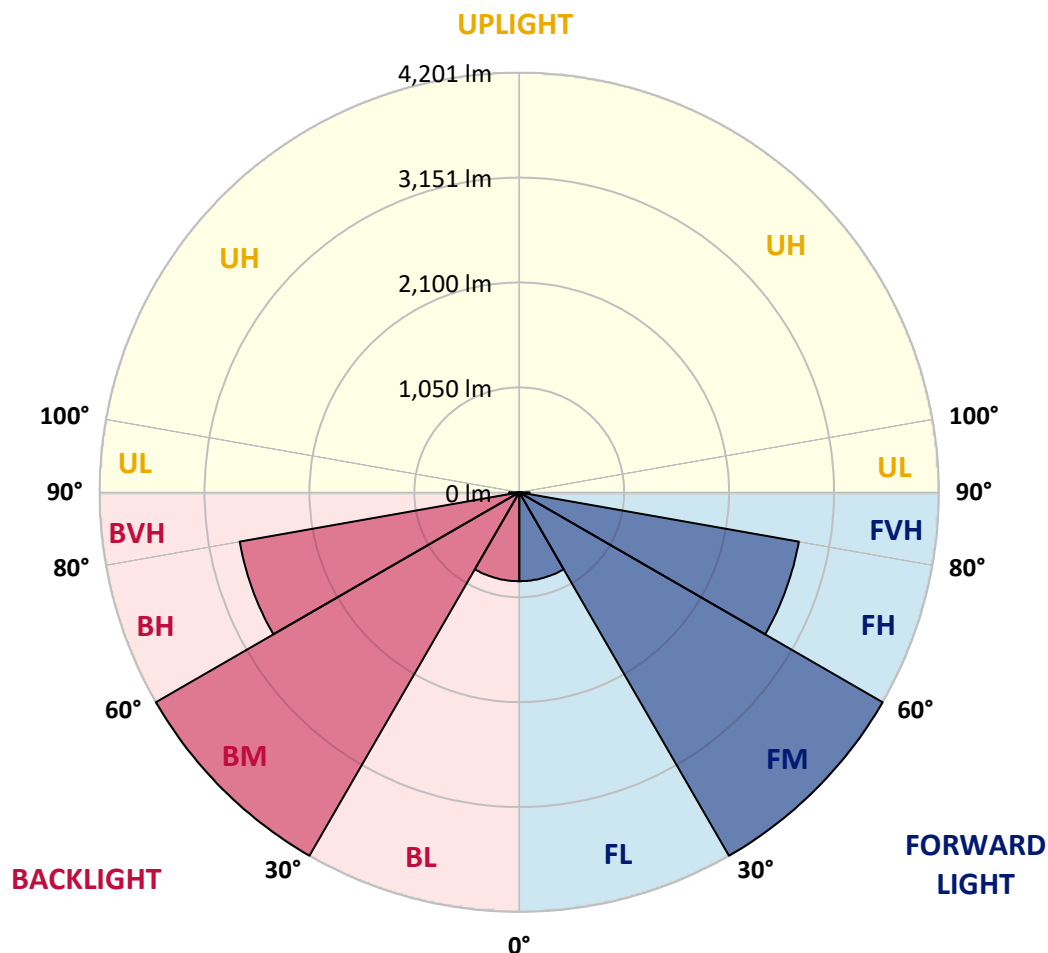
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	889.6	5.5			
FM	(30°-60°)	4200.7	26.1			
FH	(60°-80°)	2842.0	17.7			G2/5000
FVH	(80°-90°)	102.2	0.6			G2/225
BL	(0°-30°)	889.6	5.5	B2/1000		
BM	(30°-60°)	4200.7	26.1	B3/5000		
BH	(60°-80°)	2842.0	17.7	B4/5000		G4/5000
BVH	(80°-90°)	102.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8	1670.8
2.5°	1658.9	1659.5	1662.2	1665.4	1668.1	1675.1	1676.7	1679.4	1680.5	1683.2	1683.2
5°	1644.4	1645.5	1651.9	1660.6	1670.3	1687.5	1699.9	1713.9	1720.9	1728.4	1727.9
7.5°	1642.8	1645.5	1654.6	1668.6	1684.8	1713.4	1739.2	1767.2	1786.1	1803.3	1802.3
10°	1659.5	1663.8	1676.7	1697.7	1722.0	1757.5	1795.8	1833.5	1866.4	1892.8	1893.9
12.5°	1684.8	1690.2	1710.7	1742.5	1779.1	1824.9	1870.2	1912.7	1958.0	1997.3	2000.5
15°	1718.2	1725.2	1755.9	1803.3	1859.4	1913.8	1962.3	2005.9	2058.2	2112.6	2118.0
17.5°	1767.8	1777.5	1817.9	1882.0	1955.8	2015.6	2066.3	2099.1	2142.8	2198.8	2209.1
20°	1843.2	1855.6	1906.8	1983.3	2073.3	2135.8	2174.6	2181.6	2203.1	2253.2	2265.1
22.5°	1941.3	1952.0	2009.2	2100.2	2201.0	2268.9	2289.3	2261.3	2259.2	2299.6	2310.9
25°	2050.6	2060.3	2126.6	2229.0	2337.3	2412.2	2411.6	2357.2	2319.5	2350.8	2362.6
27.5°	2173.5	2188.6	2252.2	2359.9	2475.8	2549.6	2545.3	2461.2	2389.5	2397.6	2407.9
30°	2314.7	2331.4	2393.3	2502.7	2618.5	2690.7	2685.3	2574.4	2466.6	2445.0	2452.6
32.5°	2489.8	2509.7	2568.4	2676.2	2778.6	2843.8	2828.1	2697.2	2559.3	2512.4	2519.4
35°	2700.4	2712.3	2774.2	2880.4	2963.4	3008.1	2975.2	2839.4	2676.7	2620.2	2620.2
37.5°	2913.8	2923.0	2992.5	3095.4	3175.6	3199.4	3135.2	2995.2	2830.3	2750.0	2751.6
40°	3118.5	3143.3	3221.4	3327.0	3406.3	3412.7	3327.6	3173.0	3001.1	2918.1	2927.8
42.5°	3332.4	3356.7	3449.9	3569.5	3639.5	3650.3	3550.6	3372.3	3194.0	3126.6	3137.4
45°	3523.2	3542.6	3650.3	3789.3	3876.6	3904.6	3786.6	3600.8	3402.5	3336.7	3339.4
47.5°	3656.3	3681.6	3800.1	3963.9	4091.1	4134.2	4018.3	3823.3	3607.8	3528.0	3535.0
50°	3776.9	3790.4	3910.6	4089.4	4251.1	4340.0	4240.8	4043.1	3815.2	3730.6	3738.1
52.5°	3844.3	3861.5	3977.9	4164.3	4355.6	4498.9	4438.6	4240.8	4015.6	3933.2	3942.4
55°	3797.4	3810.3	3949.9	4181.0	4420.3	4597.0	4606.1	4434.3	4212.3	4140.1	4165.9
57.5°	3584.1	3600.2	3770.5	4073.3	4428.3	4663.3	4732.2	4613.7	4396.0	4337.3	4352.4
60°	3250.5	3260.8	3442.4	3782.9	4271.0	4690.7	4812.5	4760.2	4576.0	4517.2	4537.7
62.5°	2656.3	2671.3	2888.5	3344.8	3938.6	4609.4	4890.1	4881.5	4743.5	4689.7	4708.0
65°	1815.7	1842.1	2082.4	2659.5	3426.2	4360.5	4960.7	5022.6	4891.7	4823.8	4848.1
67.5°	1096.4	1115.8	1289.9	1755.9	2621.8	3858.3	4887.9	5183.2	4996.2	4886.9	4906.8
68°	980.1	997.8	1143.3	1584.6	2425.1	3716.6	4821.7	5201.5	5007.5	4885.8	4903.6
70°	592.1	604.0	701.5	979.5	1616.9	2948.3	4369.6	5186.4	5079.7	4900.9	4911.1
72.5°	385.8	389.5	405.7	502.7	826.0	1648.7	3279.6	4833.0	5188.0	4988.7	4987.1
75°	320.6	318.4	320.0	331.4	407.3	723.1	1916.5	3817.9	4945.6	4850.2	4816.3
77.5°	271.0	269.4	268.9	269.4	272.6	349.1	831.9	2378.2	3784.5	4290.4	4320.6
80°	219.3	217.1	224.1	220.9	211.2	217.1	348.6	989.2	1783.9	1919.2	1798.5
82.5°	159.5	151.4	181.6	173.0	164.9	153.0	192.3	319.5	425.6	292.0	205.3
85°	122.8	114.2	137.9	132.5	113.1	78.1	114.2	156.3	172.4	98.6	77.6
87.5°	50.1	52.8	99.7	78.7	66.3	37.7	46.9	62.5	84.1	42.0	32.3
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)