

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: P316068

Luminaire Tested: **GAN-SA4A-727-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16560 lumens
Efficiency: N/A
Efficacy: 128.4 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): 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

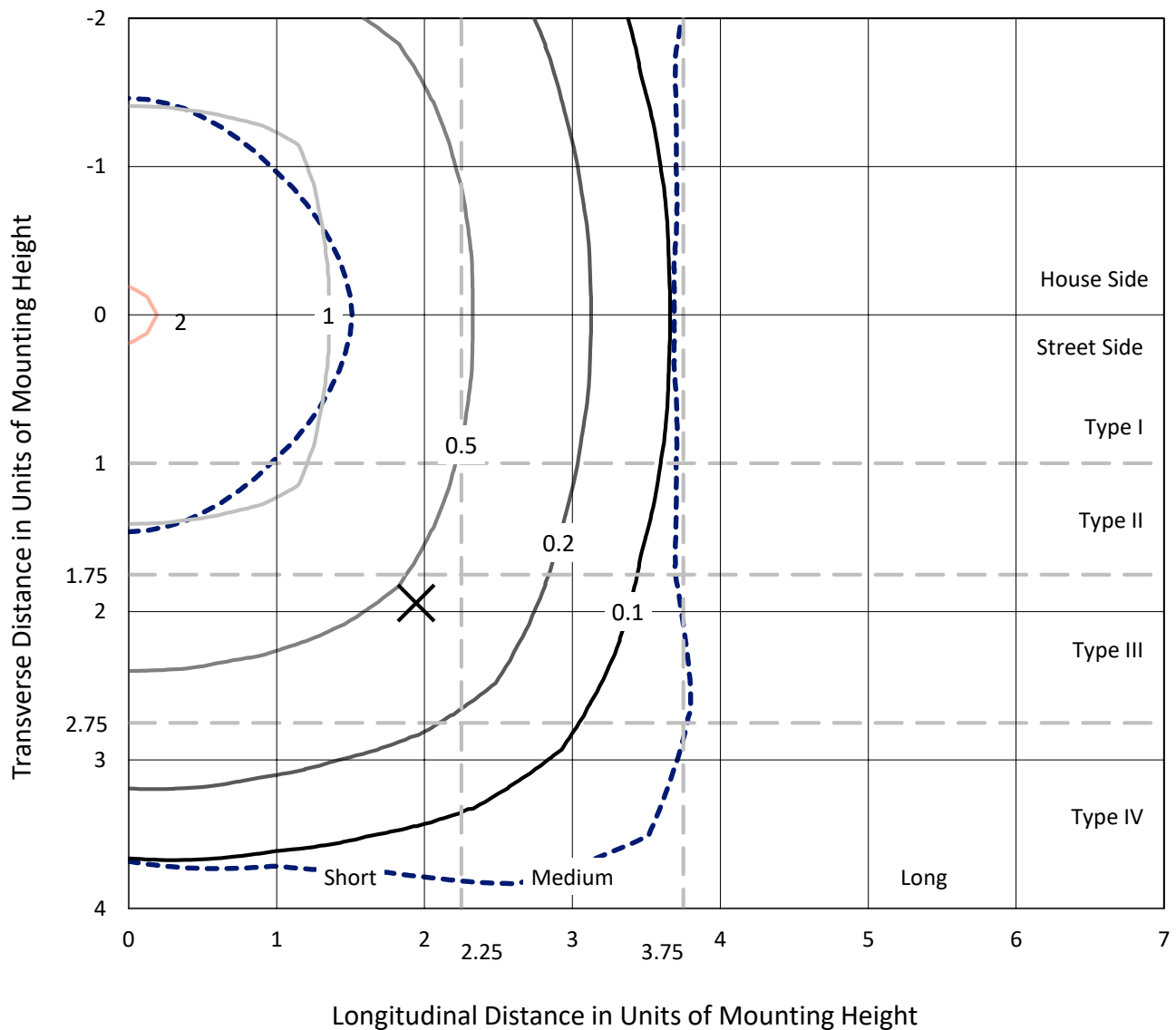


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Iso-Footcandle Lines of Horizontal Illumination

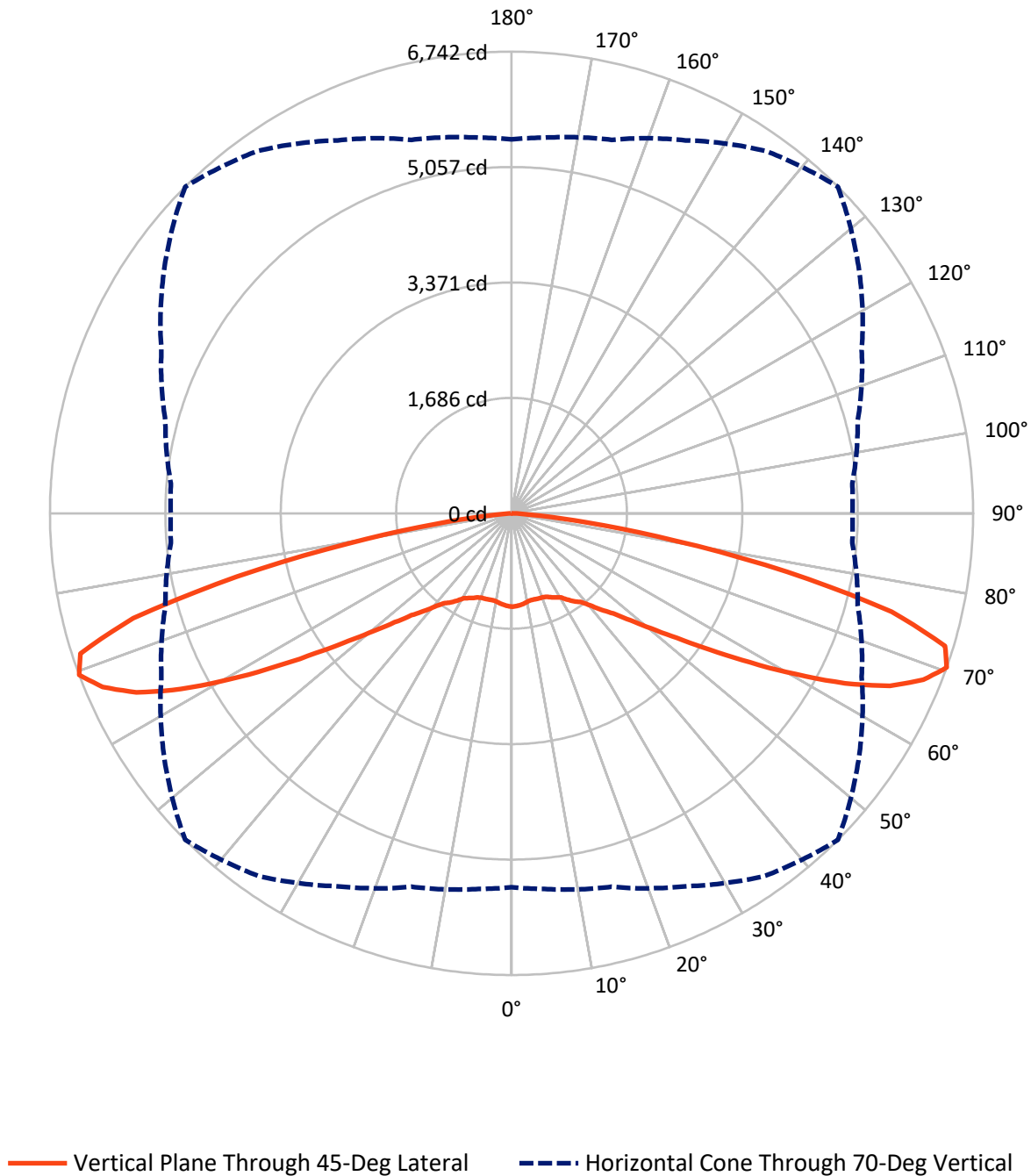
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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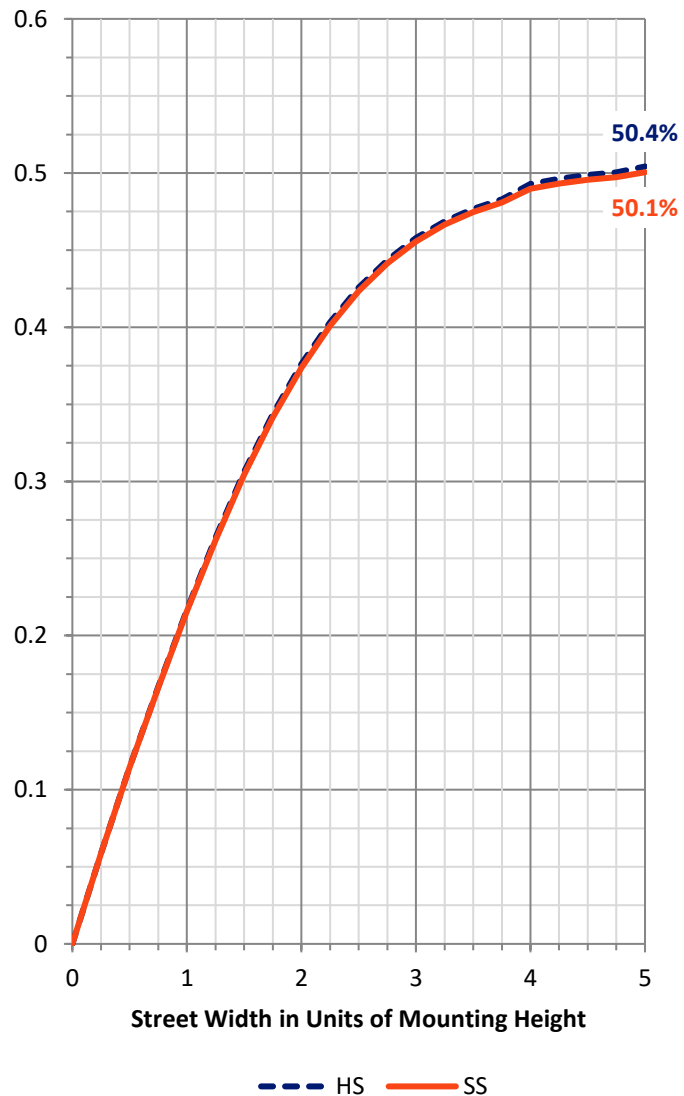
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8280.0	0.0	8280.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8280.0	0.0	8280.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16560.0	0.0	16560.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.2	0.8
10°-20°	371.6	2.2
20°-30°	633.5	3.8
30°-40°	989.9	6.0
40°-50°	1677.6	10.1
50°-60°	3059.2	18.5
60°-70°	5266.7	31.8
70°-80°	4128.2	24.9
80°-90°	306.1	1.8
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°	16560.0	100.0
0°-180°	16560.0	100.0

Coefficient of Utilization



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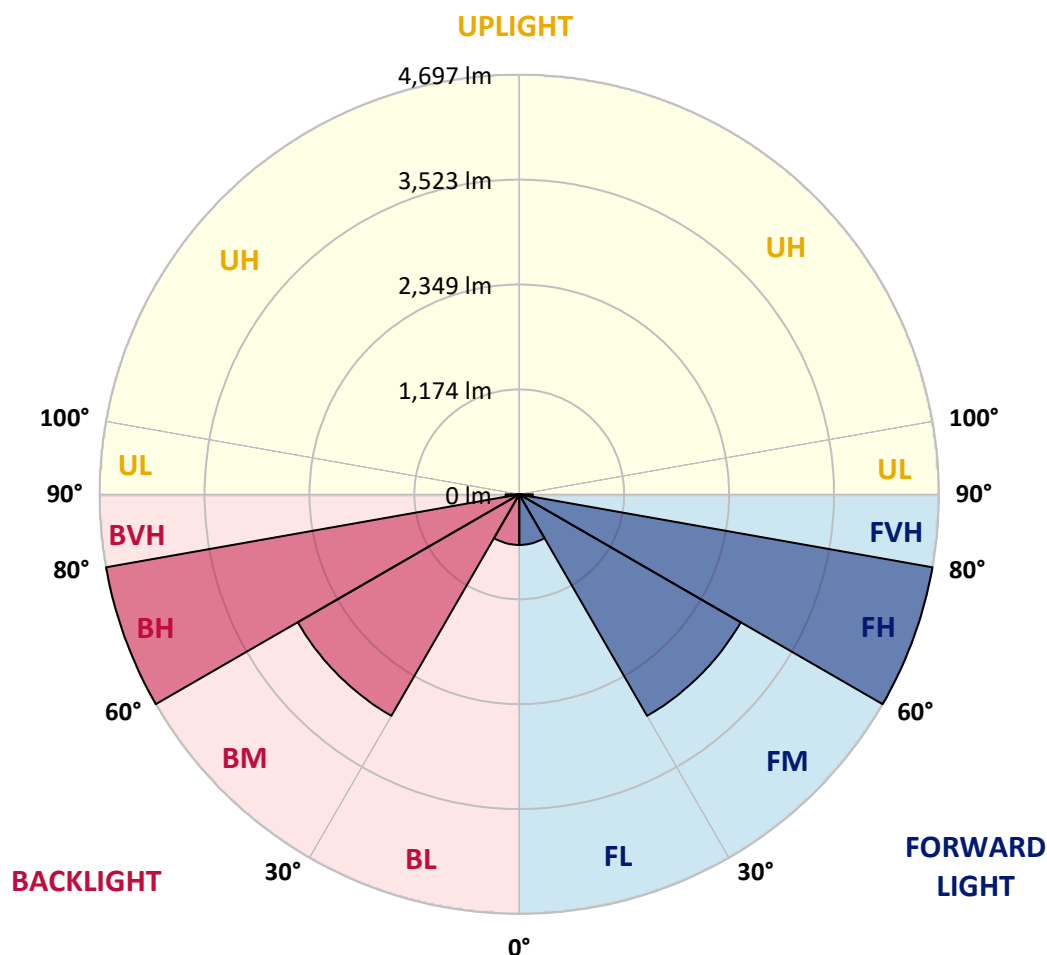
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	566.1	3.4			
FM	(30°-60°)	2863.4	17.3			
FH	(60°-80°)	4697.5	28.4			G2/5000
FVH	(80°-90°)	153.1	0.9			G2/225
BL	(0°-30°)	566.1	3.4	B2/1000		
BM	(30°-60°)	2863.4	17.3	B3/5000		
BH	(60°-80°)	4697.5	28.4	B4/5000		G2/5000
BVH	(80°-90°)	153.1	0.9			G2/225
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°	1362.9	1362.9	1362.9	1362.9	1362.9	1362.9	1362.9	1362.9	1362.9	1362.9	1362.9
2.5°	1356.9	1358.5	1356.9	1358.0	1355.2	1356.3	1356.3	1356.3	1355.8	1356.3	1355.2
5°	1344.8	1345.9	1343.7	1344.8	1343.2	1344.8	1345.4	1344.8	1343.7	1344.3	1342.1
7.5°	1326.7	1327.8	1326.2	1327.8	1325.6	1328.4	1327.8	1326.2	1324.5	1324.5	1322.4
10°	1316.9	1317.4	1313.0	1311.4	1306.5	1307.6	1309.2	1310.9	1312.5	1315.8	1315.2
12.5°	1317.4	1317.4	1310.9	1303.7	1296.6	1298.3	1301.0	1307.0	1313.6	1319.6	1320.2
15°	1322.9	1322.4	1312.5	1301.0	1296.1	1301.0	1302.6	1306.5	1316.9	1327.3	1327.8
17.5°	1326.7	1326.7	1311.4	1298.3	1297.7	1305.4	1304.8	1306.5	1318.0	1333.3	1333.9
20°	1333.9	1333.9	1314.1	1299.9	1299.9	1308.1	1308.7	1311.4	1322.9	1339.9	1342.6
22.5°	1349.7	1350.3	1329.5	1318.0	1319.1	1324.0	1325.6	1330.0	1340.4	1359.1	1362.3
25°	1372.2	1373.3	1351.9	1345.4	1349.2	1358.5	1357.4	1360.7	1372.2	1390.3	1393.6
27.5°	1403.4	1400.7	1381.0	1378.2	1382.1	1388.6	1388.1	1388.6	1397.9	1414.4	1418.2
30°	1444.0	1442.9	1428.6	1430.3	1428.6	1426.4	1427.0	1431.4	1436.3	1449.4	1453.3
32.5°	1483.4	1484.5	1475.7	1484.0	1496.0	1504.2	1491.6	1479.6	1474.1	1481.2	1484.5
35°	1554.6	1557.4	1543.7	1538.2	1554.6	1578.7	1543.1	1523.4	1534.3	1543.7	1546.4
37.5°	1675.7	1677.3	1654.3	1632.4	1620.3	1643.4	1607.8	1609.4	1647.7	1665.3	1664.7
40°	1813.7	1814.3	1798.9	1779.8	1758.9	1764.4	1750.2	1754.6	1779.8	1795.6	1800.0
42.5°	1978.1	1976.4	1952.3	1924.9	1918.9	1924.4	1900.3	1897.0	1926.0	1954.5	1955.0
45°	2191.1	2187.3	2156.1	2126.0	2096.9	2084.9	2078.8	2094.7	2134.7	2161.0	2161.6
47.5°	2420.7	2410.3	2393.8	2369.7	2344.5	2332.5	2322.6	2330.3	2359.3	2369.7	2370.8
50°	2656.8	2659.0	2662.2	2652.9	2643.6	2639.8	2614.0	2599.2	2608.0	2588.8	2586.1
52.5°	2936.7	2941.1	2972.8	2999.7	3015.6	3023.8	2975.0	2924.1	2895.6	2858.3	2847.4
55°	3267.0	3274.1	3320.7	3395.2	3471.9	3512.4	3424.2	3328.9	3240.7	3171.1	3148.7
57.5°	3635.1	3647.7	3711.8	3854.8	4012.0	4107.8	3958.8	3785.7	3615.4	3515.1	3497.6
60°	4066.8	4078.8	4167.6	4372.4	4627.1	4771.2	4545.5	4262.3	4050.3	3954.5	3922.1
62.5°	4580.6	4581.7	4690.7	4930.1	5266.4	5466.9	5161.2	4782.7	4564.1	4448.6	4417.3
65°	5133.3	5136.0	5248.9	5507.4	5855.3	6073.3	5728.2	5333.8	5066.5	4896.1	4872.0
67.5°	5523.9	5535.4	5654.2	5965.4	6290.8	6487.4	6130.3	5684.4	5375.4	5172.2	5151.9
70°	5461.4	5506.3	5646.0	6009.2	6461.7	6742.1	6195.5	5642.7	5235.2	4995.3	4978.3
72.5°	4763.0	4849.0	5035.2	5511.8	6235.4	6621.6	5839.9	5053.9	4592.6	4388.3	4357.6
75°	3243.4	3383.1	3664.1	4351.6	5327.2	5733.1	4916.4	4029.5	3595.7	3313.0	3292.2
77.5°	1446.2	1477.9	1834.0	2625.5	3676.2	4117.2	3572.1	2635.9	1978.6	1578.2	1493.8
80°	403.2	408.1	544.5	977.8	1840.0	2419.0	1975.3	1027.1	577.4	407.0	383.4
82.5°	128.2	139.1	169.8	253.6	618.4	1103.8	634.9	273.9	195.0	155.6	140.2
85°	62.4	61.9	86.0	103.0	157.8	244.3	168.2	127.1	111.2	74.0	66.8
87.5°	26.3	26.8	40.0	36.2	46.0	39.4	54.2	57.0	59.7	32.9	28.5
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)