

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: P316278

Luminaire Tested: **GAN-SA4B-827-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316278
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-SA4B-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17849 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

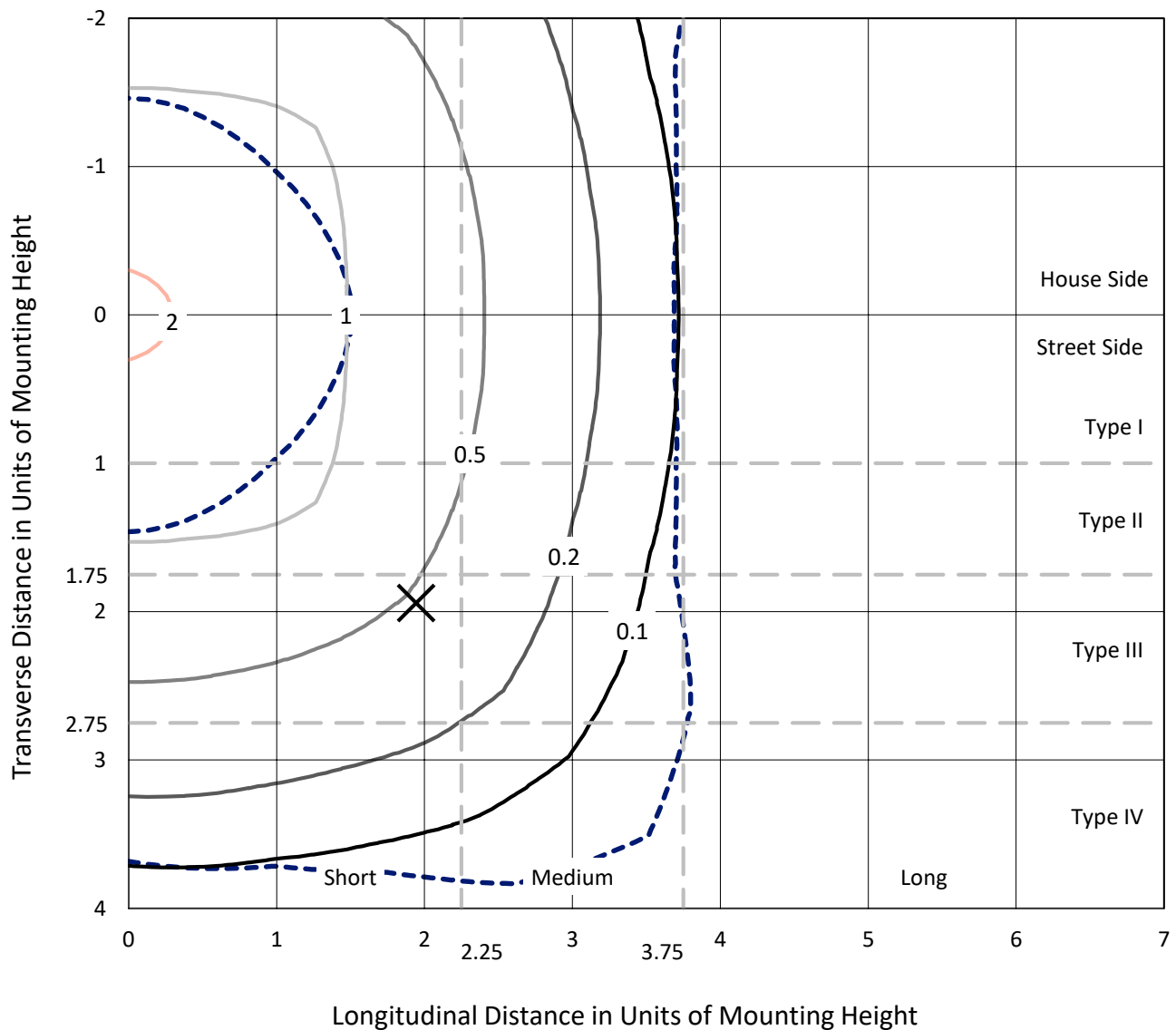


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Iso-Footcandle Lines of Horizontal Illumination

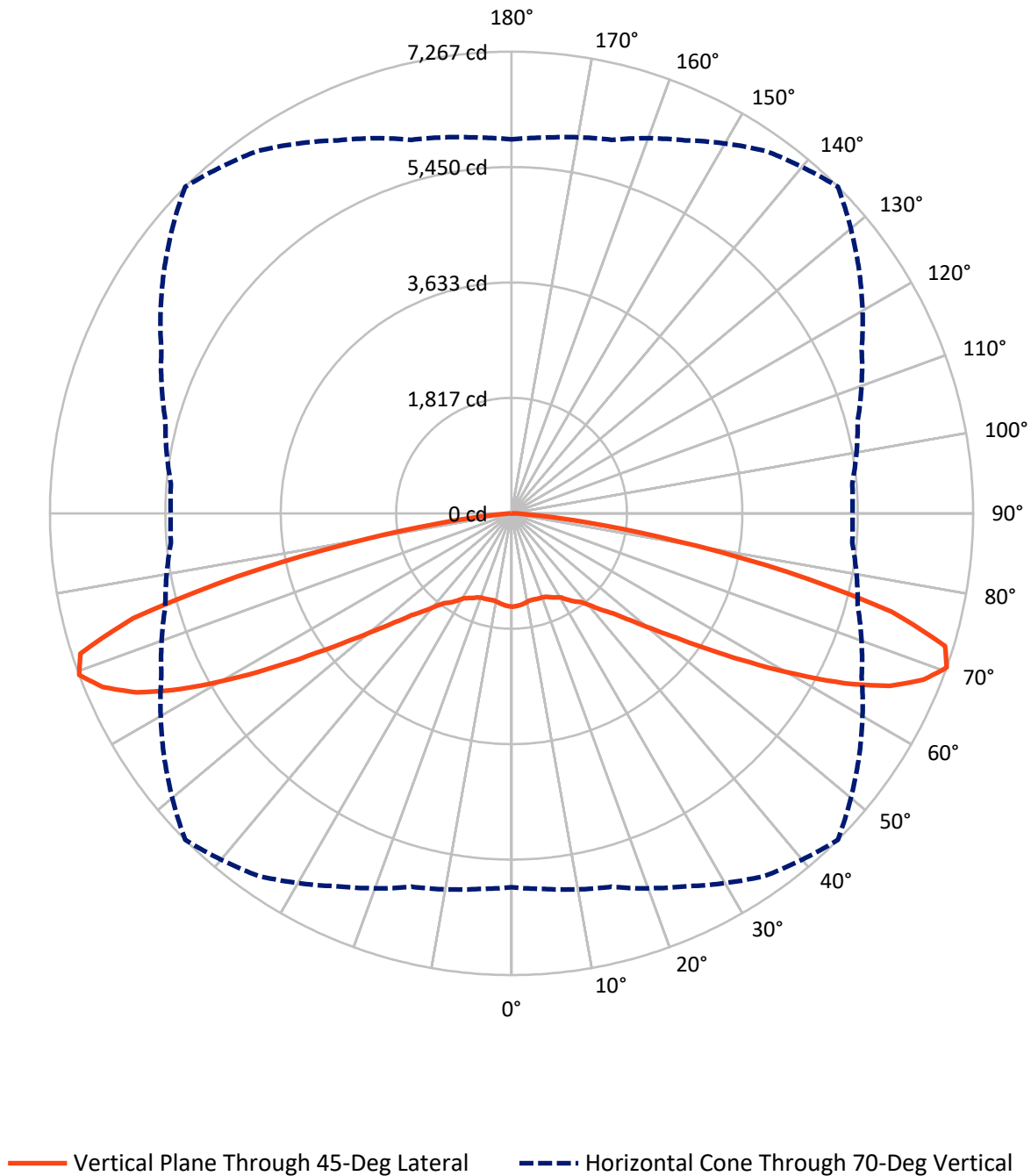
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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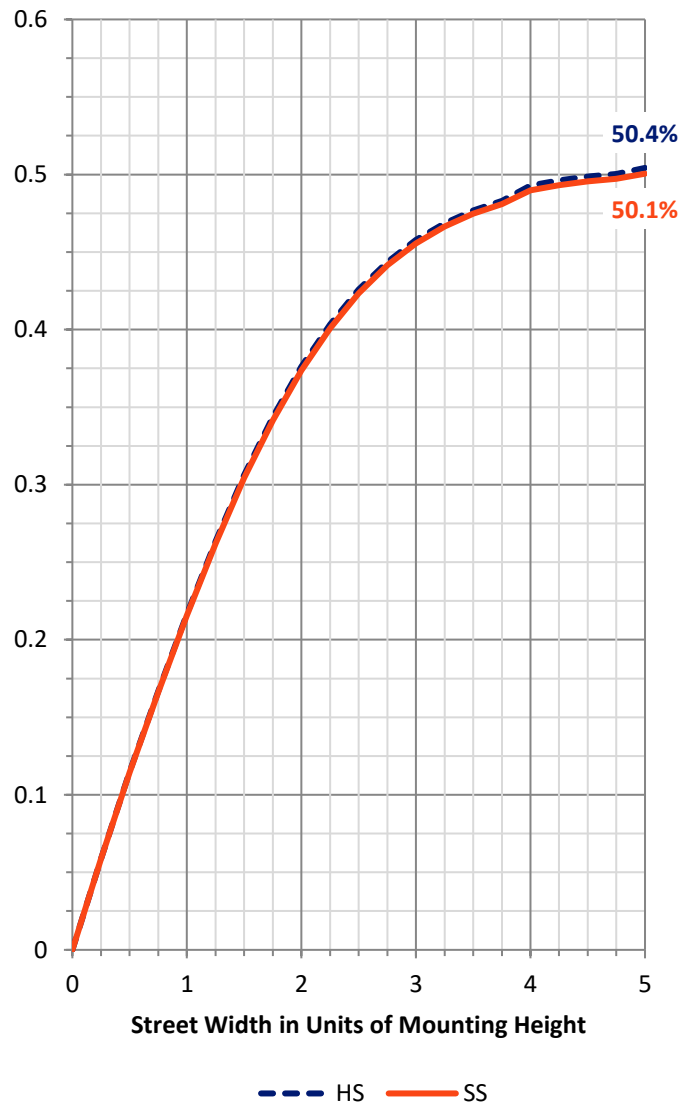
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8924.5	0.0	8924.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8924.5	0.0	8924.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17849.0	0.0	17849.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	0.8
10°-20°	400.5	2.2
20°-30°	682.8	3.8
30°-40°	1066.9	6.0
40°-50°	1808.2	10.1
50°-60°	3297.4	18.5
60°-70°	5676.6	31.8
70°-80°	4449.6	24.9
80°-90°	329.9	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°	17849.0	100.0
0°-180°	17849.0	100.0

Coefficient of Utilization



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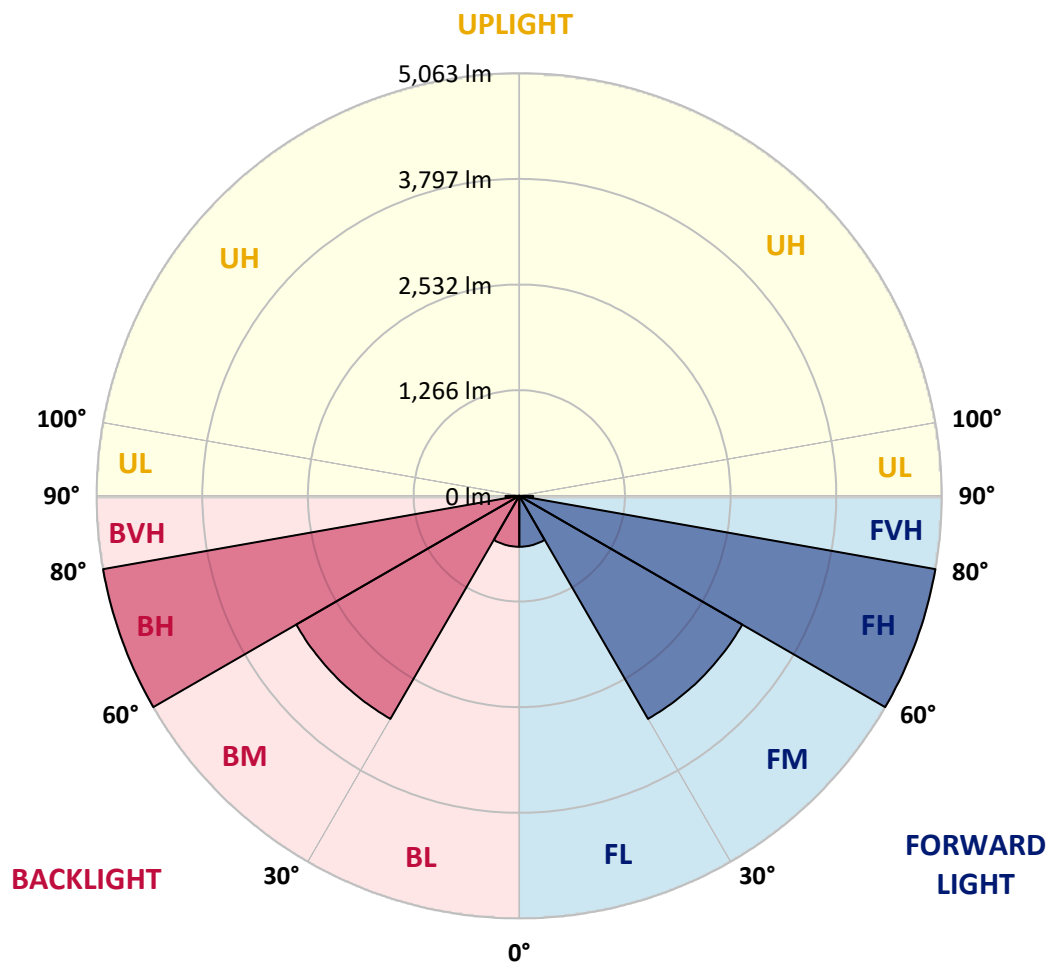
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	610.2	3.4			
FM	(30°-60°)	3086.2	17.3			
FH	(60°-80°)	5063.1	28.4			G3/7500
FVH	(80°-90°)	165.0	0.9			G2/225
BL	(0°-30°)	610.2	3.4	B2/1000		
BM	(30°-60°)	3086.2	17.3	B3/5000		
BH	(60°-80°)	5063.1	28.4	B5		G3/7500
BVH	(80°-90°)	165.0	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0
2.5°	1462.5	1464.3	1462.5	1463.7	1460.7	1461.9	1461.9	1461.9	1461.3	1461.9	1460.7
5°	1449.5	1450.7	1448.3	1449.5	1447.7	1449.5	1450.1	1449.5	1448.3	1448.9	1446.5
7.5°	1430.0	1431.2	1429.4	1431.2	1428.8	1431.8	1431.2	1429.4	1427.6	1427.6	1425.3
10°	1419.4	1420.0	1415.2	1413.5	1408.2	1409.3	1411.1	1412.9	1414.7	1418.2	1417.6
12.5°	1420.0	1420.0	1412.9	1405.2	1397.5	1399.3	1402.3	1408.8	1415.8	1422.3	1422.9
15°	1425.9	1425.3	1414.7	1402.3	1396.9	1402.3	1404.0	1408.2	1419.4	1430.6	1431.2
17.5°	1430.0	1430.0	1413.5	1399.3	1398.7	1407.0	1406.4	1408.2	1420.6	1437.1	1437.7
20°	1437.7	1437.7	1416.4	1401.1	1401.1	1409.9	1410.5	1413.5	1425.9	1444.2	1447.1
22.5°	1454.8	1455.4	1433.0	1420.6	1421.7	1427.1	1428.8	1433.5	1444.8	1464.8	1468.4
25°	1479.0	1480.2	1457.2	1450.1	1454.2	1464.3	1463.1	1466.6	1479.0	1498.5	1502.0
27.5°	1512.7	1509.7	1488.5	1485.5	1489.6	1496.7	1496.1	1496.7	1506.8	1524.5	1528.6
30°	1556.4	1555.2	1539.8	1541.6	1539.8	1537.5	1538.1	1542.8	1548.1	1562.3	1566.4
32.5°	1598.9	1600.0	1590.6	1599.5	1612.4	1621.3	1607.7	1594.7	1588.8	1596.5	1600.0
35°	1675.6	1678.6	1663.8	1657.9	1675.6	1701.6	1663.2	1642.0	1653.8	1663.8	1666.8
37.5°	1806.1	1807.9	1783.1	1759.5	1746.5	1771.3	1732.9	1734.7	1776.0	1794.9	1794.3
40°	1954.9	1955.5	1939.0	1918.3	1895.9	1901.8	1886.4	1891.1	1918.3	1935.4	1940.1
42.5°	2132.0	2130.3	2104.3	2074.8	2068.3	2074.2	2048.2	2044.6	2075.9	2106.6	2107.2
45°	2361.7	2357.6	2323.9	2291.4	2260.1	2247.2	2240.7	2257.8	2300.9	2329.2	2329.8
47.5°	2609.1	2597.9	2580.2	2554.2	2527.0	2514.0	2503.4	2511.7	2543.0	2554.2	2555.4
50°	2863.6	2865.9	2869.5	2859.4	2849.4	2845.3	2817.5	2801.6	2811.0	2790.3	2787.4
52.5°	3165.3	3170.0	3204.2	3233.2	3250.3	3259.1	3206.6	3151.7	3121.0	3080.8	3069.0
55°	3521.3	3529.0	3579.2	3659.4	3742.1	3785.8	3690.7	3588.0	3492.9	3418.0	3393.8
57.5°	3918.1	3931.6	4000.7	4154.8	4324.3	4427.6	4267.0	4080.4	3896.8	3788.8	3769.9
60°	4383.3	4396.3	4491.9	4712.8	4987.3	5142.6	4899.3	4594.1	4365.6	4262.3	4227.4
62.5°	4937.1	4938.3	5055.8	5313.8	5676.3	5892.4	5563.0	5155.0	4919.4	4794.8	4761.2
65°	5532.9	5535.8	5657.4	5936.1	6311.0	6546.0	6174.1	5749.0	5460.8	5277.2	5251.2
67.5°	5953.8	5966.2	6094.4	6429.7	6780.4	6992.4	6607.4	6126.8	5793.8	5574.8	5552.9
70°	5886.5	5934.9	6085.5	6477.0	6964.6	7266.9	6677.7	6082.0	5642.7	5384.1	5365.8
72.5°	5133.7	5226.4	5427.2	5940.8	6720.8	7137.0	6294.5	5447.3	4950.1	4729.9	4696.8
75°	3495.9	3646.5	3949.3	4690.3	5741.9	6179.4	5299.1	4343.2	3875.5	3570.9	3548.4
77.5°	1558.7	1593.0	1976.7	2829.9	3962.3	4437.6	3850.2	2841.1	2132.6	1701.0	1610.1
80°	434.6	439.9	586.9	1053.9	1983.2	2607.3	2129.1	1107.0	622.3	438.7	413.3
82.5°	138.2	150.0	183.0	273.4	666.6	1189.7	684.3	295.2	210.2	167.7	151.1
85°	67.3	66.7	92.7	111.0	170.0	263.3	181.3	137.0	119.9	79.7	72.0
87.5°	28.3	28.9	43.1	39.0	49.6	42.5	58.5	61.4	64.4	35.4	30.7
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)