

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: P316318

Luminaire Tested: **GAN-SA4B-830-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316318
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-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 19295 lumens
Efficiency: N/A
Efficacy: 112.8 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

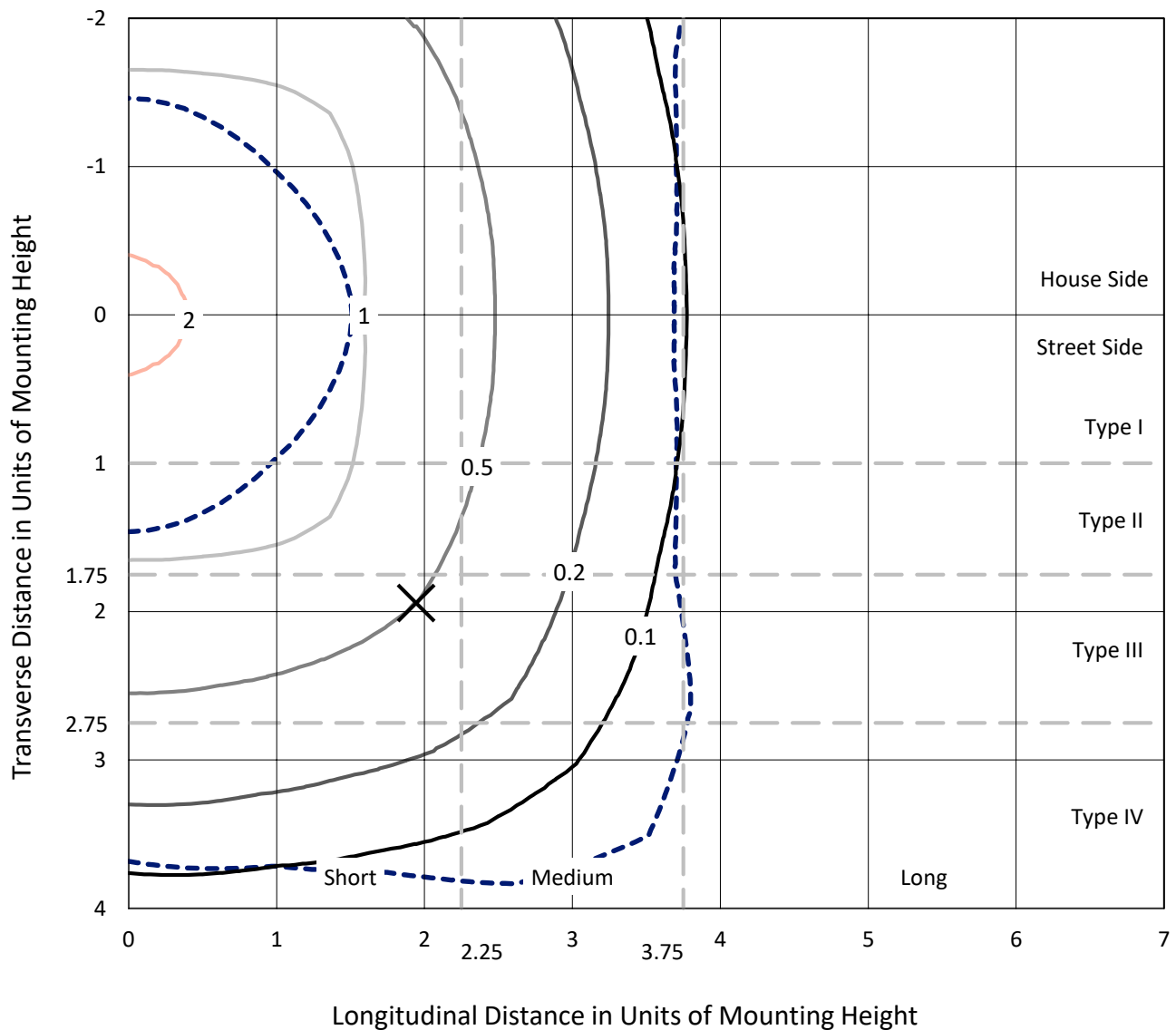


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Iso-Footcandle Lines of Horizontal Illumination

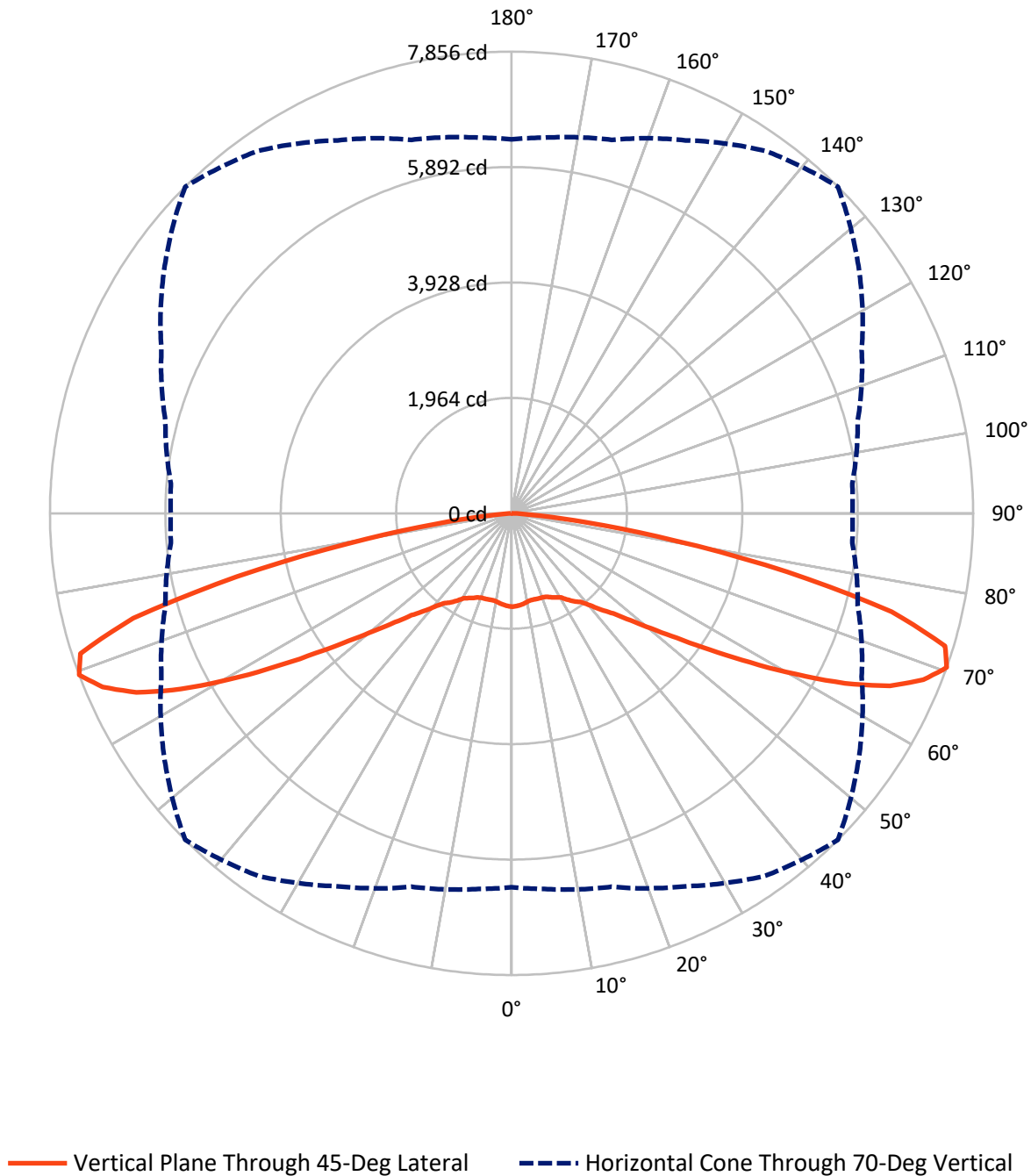
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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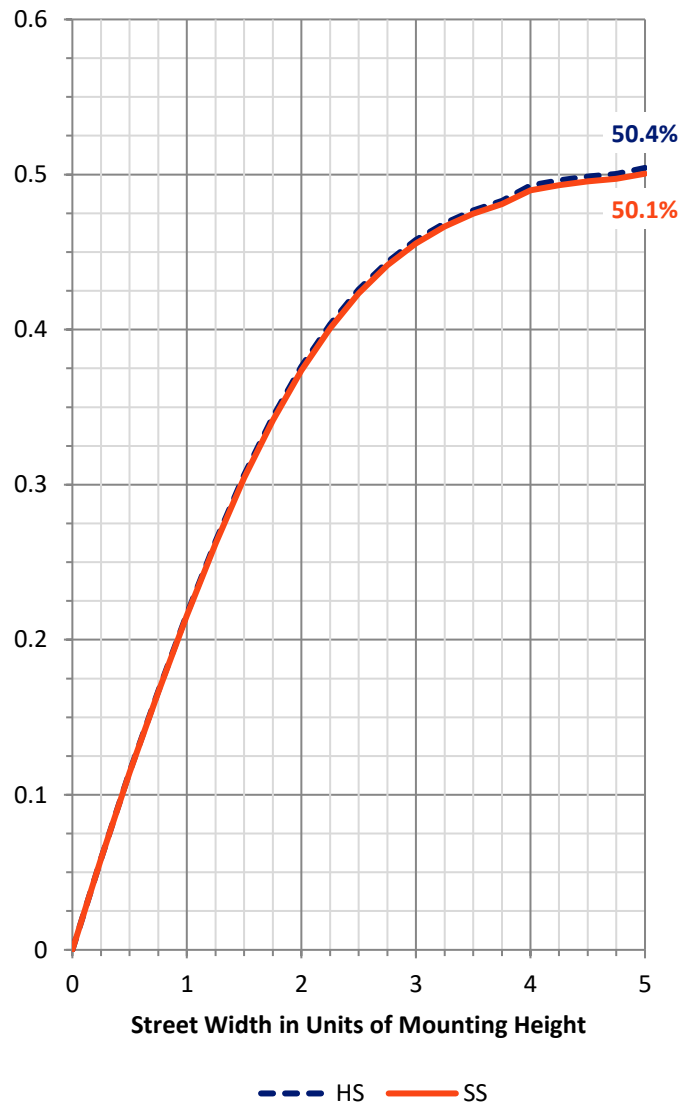
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9647.5	0.0	9647.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9647.5	0.0	9647.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19295.0	0.0	19295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	0.8
10°-20°	432.9	2.2
20°-30°	738.1	3.8
30°-40°	1153.4	6.0
40°-50°	1954.7	10.1
50°-60°	3564.5	18.5
60°-70°	6136.5	31.8
70°-80°	4810.0	24.9
80°-90°	356.7	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°	19295.0	100.0
0°-180°	19295.0	100.0

Coefficient of Utilization



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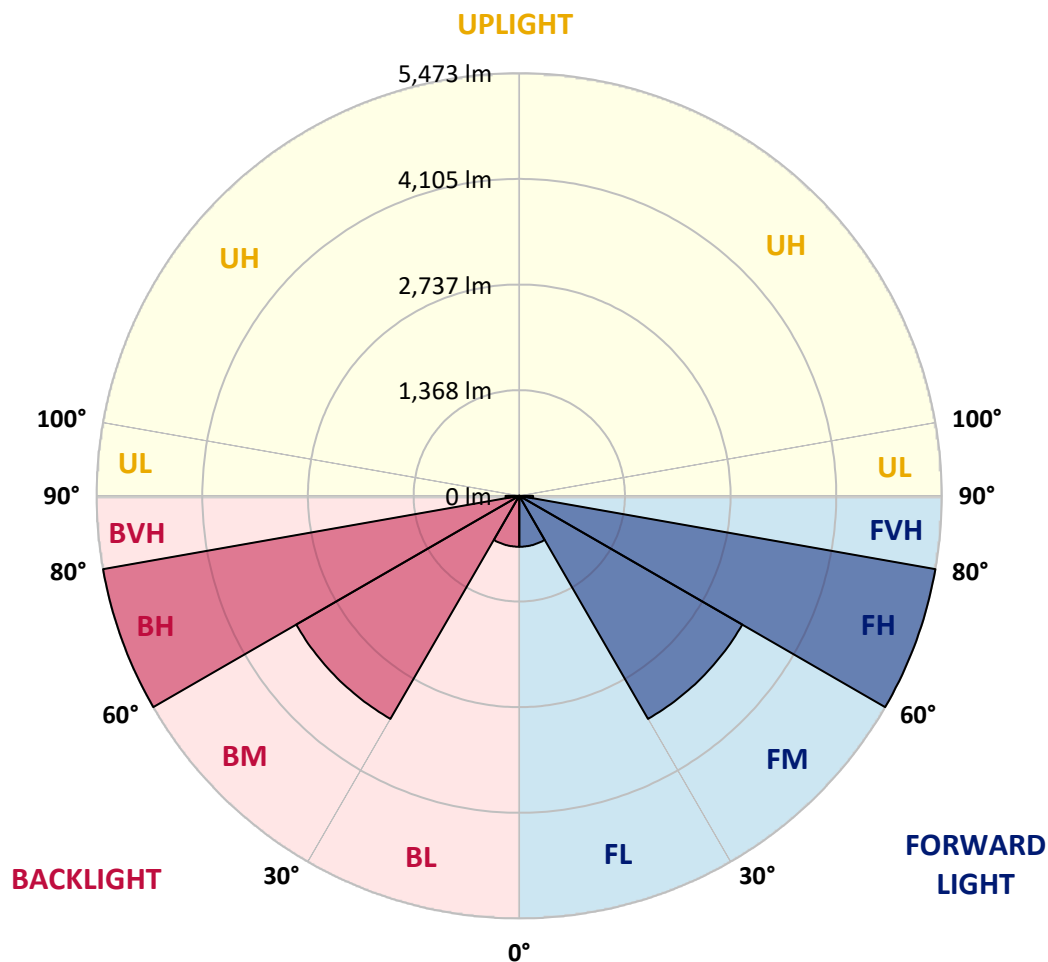
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	659.6	3.4			
FM	(30°-60°)	3336.3	17.3			
FH	(60°-80°)	5473.3	28.4			G3/7500
FVH	(80°-90°)	178.3	0.9			G2/225
BL	(0°-30°)	659.6	3.4	B2/1000		
BM	(30°-60°)	3336.3	17.3	B3/5000		
BH	(60°-80°)	5473.3	28.4	B5		G3/7500
BVH	(80°-90°)	178.3	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°	1588.0	1588.0	1588.0	1588.0	1588.0	1588.0	1588.0	1588.0	1588.0	1588.0	1588.0
2.5°	1581.0	1582.9	1581.0	1582.2	1579.0	1580.3	1580.3	1580.3	1579.7	1580.3	1579.0
5°	1566.9	1568.2	1565.6	1566.9	1565.0	1566.9	1567.6	1566.9	1565.6	1566.3	1563.7
7.5°	1545.9	1547.1	1545.2	1547.1	1544.6	1547.8	1547.1	1545.2	1543.3	1543.3	1540.8
10°	1534.4	1535.0	1529.9	1528.0	1522.2	1523.5	1525.4	1527.3	1529.3	1533.1	1532.5
12.5°	1535.0	1535.0	1527.3	1519.0	1510.8	1512.7	1515.9	1522.9	1530.5	1537.6	1538.2
15°	1541.4	1540.8	1529.3	1515.9	1510.1	1515.9	1517.8	1522.2	1534.4	1546.5	1547.1
17.5°	1545.9	1545.9	1528.0	1512.7	1512.0	1521.0	1520.3	1522.2	1535.6	1553.5	1554.2
20°	1554.2	1554.2	1531.2	1514.6	1514.6	1524.2	1524.8	1528.0	1541.4	1561.2	1564.4
22.5°	1572.7	1573.3	1549.0	1535.6	1536.9	1542.7	1544.6	1549.7	1561.8	1583.5	1587.3
25°	1598.8	1600.1	1575.2	1567.6	1572.0	1582.9	1581.6	1585.4	1598.8	1619.9	1623.7
27.5°	1635.2	1632.0	1609.0	1605.9	1610.3	1618.0	1617.3	1618.0	1628.8	1648.0	1652.4
30°	1682.4	1681.2	1664.6	1666.5	1664.6	1662.0	1662.7	1667.8	1673.5	1688.8	1693.3
32.5°	1728.4	1729.7	1719.5	1729.0	1743.1	1752.7	1738.0	1723.9	1717.5	1725.8	1729.7
35°	1811.4	1814.6	1798.6	1792.2	1811.4	1839.5	1798.0	1775.0	1787.8	1798.6	1801.8
37.5°	1952.4	1954.3	1927.5	1902.0	1888.0	1914.8	1873.3	1875.2	1919.9	1940.3	1939.7
40°	2113.3	2113.9	2096.0	2073.7	2049.4	2055.8	2039.2	2044.3	2073.7	2092.2	2097.3
42.5°	2304.7	2302.8	2274.7	2242.8	2235.8	2242.2	2214.1	2210.3	2244.1	2277.3	2277.9
45°	2553.0	2548.6	2512.2	2477.1	2443.2	2429.2	2422.2	2440.7	2487.3	2517.9	2518.6
47.5°	2820.5	2808.3	2789.2	2761.1	2731.7	2717.7	2706.2	2715.1	2749.0	2761.1	2762.4
50°	3095.5	3098.1	3101.9	3091.1	3080.2	3075.8	3045.8	3028.5	3038.7	3016.4	3013.2
52.5°	3421.7	3426.8	3463.8	3495.1	3513.6	3523.2	3466.4	3407.0	3373.8	3330.4	3317.7
55°	3806.6	3814.9	3869.1	3955.9	4045.3	4092.5	3989.7	3878.7	3775.9	3694.9	3668.7
57.5°	4235.5	4250.1	4324.8	4491.4	4674.6	4786.3	4612.7	4411.0	4212.5	4095.7	4075.3
60°	4738.4	4752.5	4855.9	5094.6	5391.3	5559.2	5296.2	4966.3	4719.3	4607.6	4569.9
62.5°	5337.1	5338.4	5465.4	5744.3	6136.2	6369.8	6013.6	5572.6	5317.9	5183.3	5146.9
65°	5981.1	5984.3	6115.8	6417.0	6822.3	7076.3	6674.2	6214.7	5903.2	5704.7	5676.6
67.5°	6436.2	6449.6	6588.1	6950.6	7329.7	7558.9	7142.7	6623.2	6263.2	6026.4	6002.8
70°	6363.4	6415.8	6578.5	7001.7	7528.9	7855.7	7218.7	6574.7	6099.8	5820.3	5800.5
72.5°	5549.6	5649.8	5866.8	6422.1	7265.3	7715.2	6804.4	5888.6	5351.1	5113.1	5077.3
75°	3779.1	3941.9	4269.3	5070.3	6207.0	6680.0	5728.3	4695.0	4189.5	3860.2	3835.9
77.5°	1685.0	1722.0	2136.9	3059.2	4283.3	4797.1	4162.1	3071.3	2305.4	1838.8	1740.5
80°	469.8	475.5	634.4	1139.3	2143.9	2818.5	2301.6	1196.7	672.7	474.2	446.8
82.5°	149.4	162.1	197.9	295.5	720.6	1286.1	739.7	319.1	227.2	181.3	163.4
85°	72.8	72.1	100.2	120.0	183.8	284.7	195.9	148.1	129.6	86.2	77.9
87.5°	30.6	31.3	46.6	42.1	53.6	46.0	63.2	66.4	69.6	38.3	33.2
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)