

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: McGRAW-EDISON

Report Number: P454310

Luminaire Tested: **GALN-SA5B-830-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 23699 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): 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

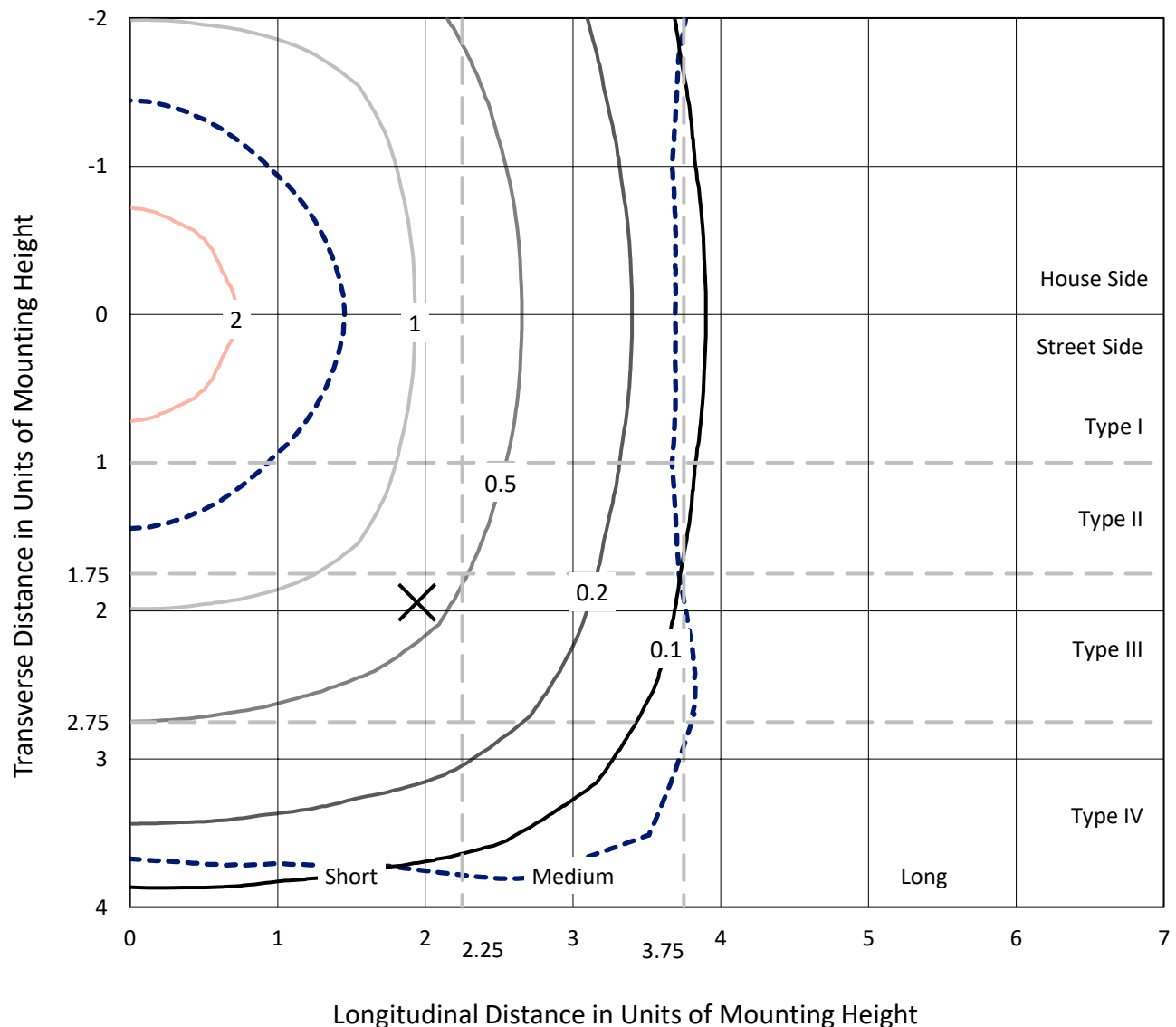


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

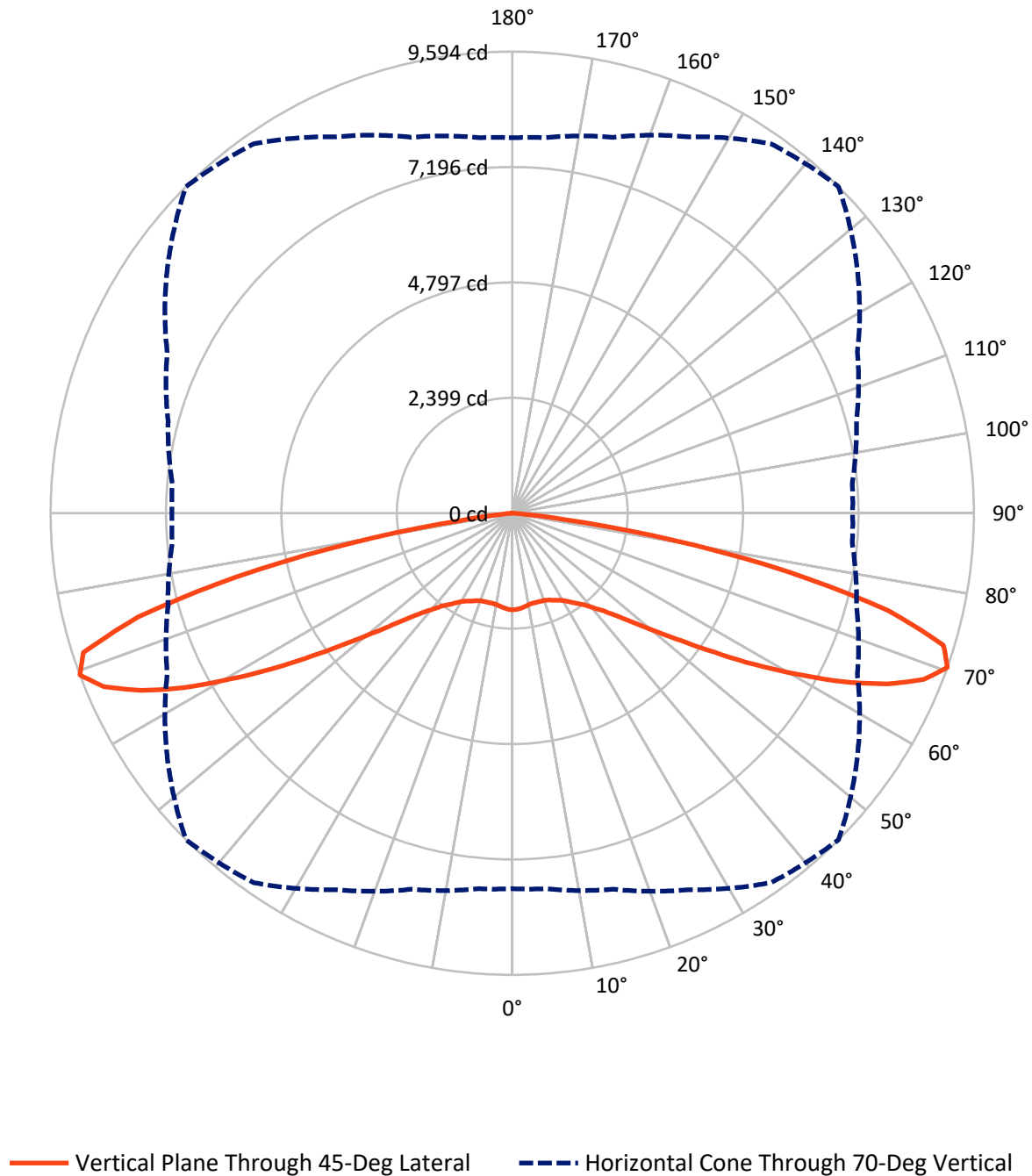


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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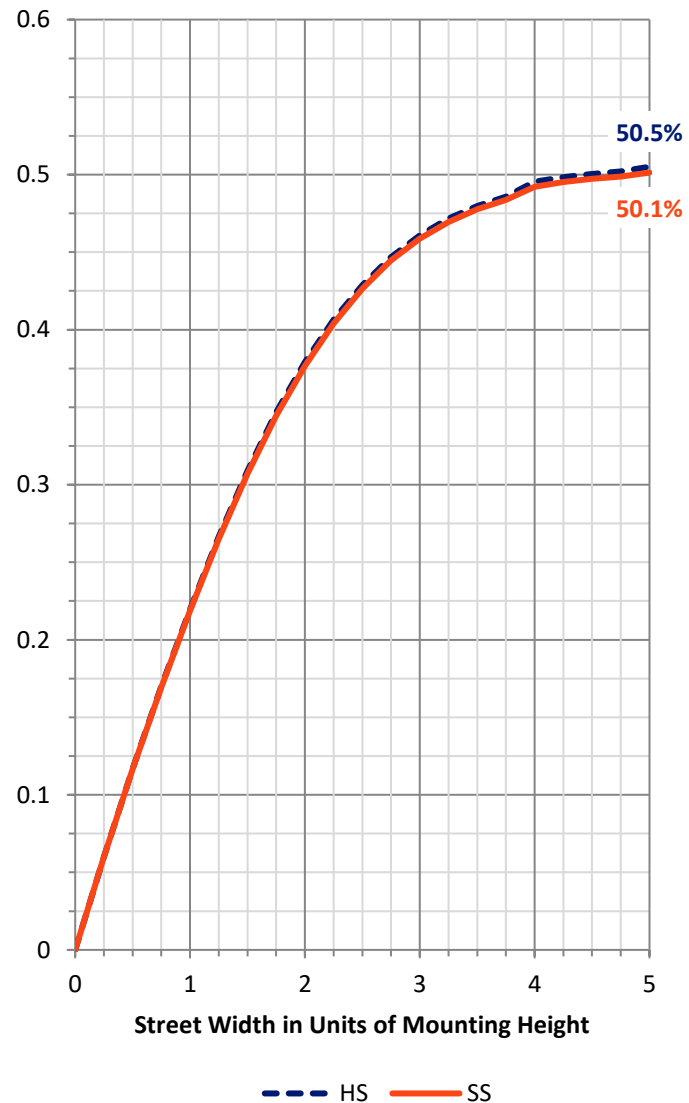
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11849.5	0.0	11849.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11849.5	0.0	11849.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23699.0	0.0	23699.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.6	0.8
10°-20°	549.3	2.3
20°-30°	935.9	3.9
30°-40°	1450.6	6.1
40°-50°	2441.6	10.3
50°-60°	4442.5	18.7
60°-70°	7521.0	31.7
70°-80°	5821.5	24.6
80°-90°	348.8	1.5
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°	23699.0	100.0
0°-180°	23699.0	100.0

Coefficient of Utilization



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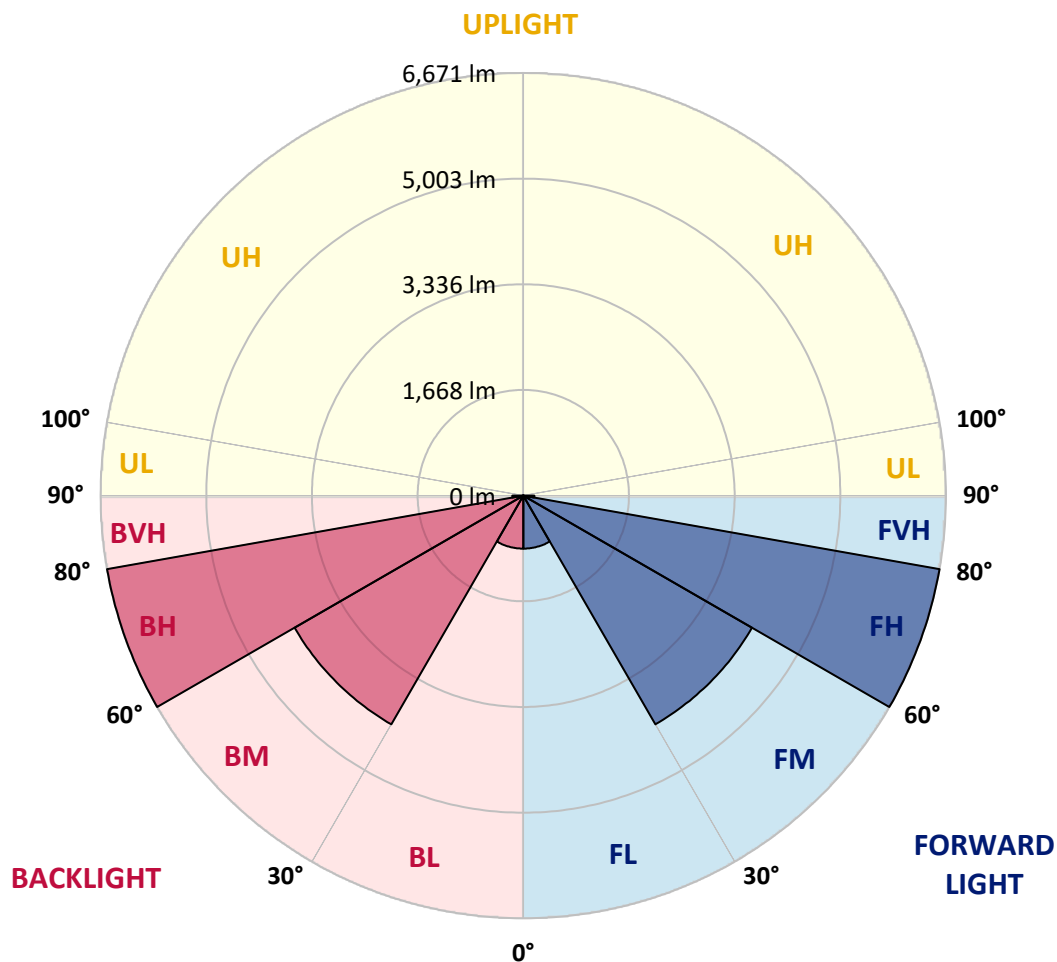
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	836.4	3.5			
FM	(30°-60°)	4167.4	17.6			
FH	(60°-80°)	6671.3	28.2			G3/7500
FVH	(80°-90°)	174.4	0.7			G2/225
BL	(0°-30°)	836.4	3.5	B2/1000		
BM	(30°-60°)	4167.4	17.6	B3/5000		
BH	(60°-80°)	6671.3	28.2	B5		G3/7500
BVH	(80°-90°)	174.4	0.7			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°	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4
2.5°	2001.4	2002.7	2002.7	2000.2	1998.9	1998.9	1997.6	1997.6	2001.4	2002.7	2003.9
5°	1983.9	1983.9	1983.9	1982.6	1980.1	1980.1	1977.6	1977.6	1978.9	1982.6	1980.1
7.5°	1960.1	1962.6	1962.6	1957.6	1953.8	1953.8	1952.6	1953.8	1955.1	1958.8	1957.6
10°	1952.6	1953.8	1947.6	1938.8	1932.6	1928.8	1930.1	1932.6	1938.8	1941.3	1942.6
12.5°	1957.6	1957.6	1946.3	1933.8	1922.5	1917.5	1916.3	1925.1	1936.3	1943.8	1946.3
15°	1963.9	1961.4	1947.6	1931.3	1920.0	1918.8	1917.5	1923.8	1940.1	1955.1	1956.3
17.5°	1967.6	1966.4	1948.8	1928.8	1922.5	1922.5	1921.3	1926.3	1943.8	1962.6	1963.9
20°	1980.1	1976.4	1956.3	1935.1	1930.1	1932.6	1928.8	1935.1	1953.8	1976.4	1981.4
22.5°	2005.2	2001.4	1981.4	1960.1	1957.6	1957.6	1956.3	1962.6	1982.6	2006.4	2010.2
25°	2035.2	2031.4	2012.7	1997.6	2000.2	2005.2	2002.7	2003.9	2020.2	2040.2	2046.5
27.5°	2075.3	2069.0	2052.7	2040.2	2047.7	2047.7	2047.7	2046.5	2056.5	2075.3	2081.5
30°	2124.1	2121.6	2104.0	2102.8	2109.0	2102.8	2102.8	2104.0	2105.3	2122.8	2129.1
32.5°	2187.9	2182.9	2174.1	2171.6	2189.2	2194.2	2176.6	2160.4	2169.1	2186.6	2190.4
35°	2293.0	2285.5	2273.0	2259.2	2273.0	2296.8	2259.2	2246.7	2269.3	2293.0	2295.5
37.5°	2435.7	2432.0	2411.9	2386.9	2385.7	2410.7	2371.9	2370.6	2413.2	2442.0	2445.7
40°	2614.7	2618.5	2593.4	2569.7	2557.1	2577.2	2547.1	2558.4	2599.7	2632.2	2629.7
42.5°	2866.3	2852.5	2813.7	2791.2	2777.4	2769.9	2762.4	2779.9	2826.2	2861.3	2888.8
45°	3160.4	3155.4	3106.6	3079.1	3049.0	3037.8	3035.3	3066.6	3122.9	3165.4	3169.2
47.5°	3493.4	3482.1	3450.8	3422.0	3410.8	3397.0	3384.5	3408.3	3464.6	3494.6	3503.4
50°	3836.3	3838.8	3838.8	3833.8	3845.1	3847.6	3813.8	3822.6	3853.9	3851.4	3848.9
52.5°	4228.1	4241.9	4307.0	4313.2	4367.0	4403.3	4342.0	4305.7	4294.4	4226.9	4231.9
55°	4688.7	4701.2	4798.9	4896.5	5041.7	5103.0	4974.1	4861.4	4781.3	4678.7	4683.7
57.5°	5263.2	5269.5	5362.1	5549.9	5780.2	5924.1	5697.6	5474.8	5312.0	5214.4	5175.6
60°	5881.5	5887.8	6023.0	6252.0	6610.0	6785.2	6504.9	6140.6	5935.4	5786.4	5796.4
62.5°	6623.8	6648.8	6770.2	7085.6	7520.0	7716.5	7344.7	6857.8	6580.0	6394.7	6402.2
65°	7418.6	7461.1	7593.8	7940.5	8341.1	8552.6	8097.0	7535.0	7189.5	6963.0	6986.8
67.5°	7934.3	7971.8	8163.3	8546.3	9045.7	9221.0	8632.7	7978.1	7546.3	7275.9	7225.8
70°	7802.8	7834.1	8089.5	8632.7	9372.4	9594.0	8760.4	7913.0	7404.8	7093.2	7073.1
72.5°	6887.9	6822.8	7195.8	7975.6	8999.4	9371.2	8358.6	7227.1	6587.5	6267.1	6229.5
75°	4564.8	4706.2	5257.0	6175.7	7613.8	8074.5	7134.5	5802.7	4997.9	4731.3	4690.0
77.5°	1525.8	1634.7	2124.1	3500.9	5190.6	5882.8	5198.1	3795.0	2684.8	2162.9	2172.9
80°	404.3	399.3	516.9	962.5	2243.0	3407.0	2611.0	1285.5	703.4	509.4	483.1
82.5°	145.2	162.7	209.0	266.6	594.5	1058.9	747.2	360.5	264.1	195.3	189.0
85°	63.8	62.6	90.1	106.4	148.9	197.8	175.2	152.7	133.9	88.9	82.6
87.5°	13.8	13.8	21.3	16.3	26.3	26.3	32.5	38.8	40.1	26.3	21.3
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)