

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: P453614

Luminaire Tested: **GALN-SA4C-830-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453614
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-SA4C-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23130 lumens
Efficiency: N/A
Efficacy: 108.6 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): 213
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



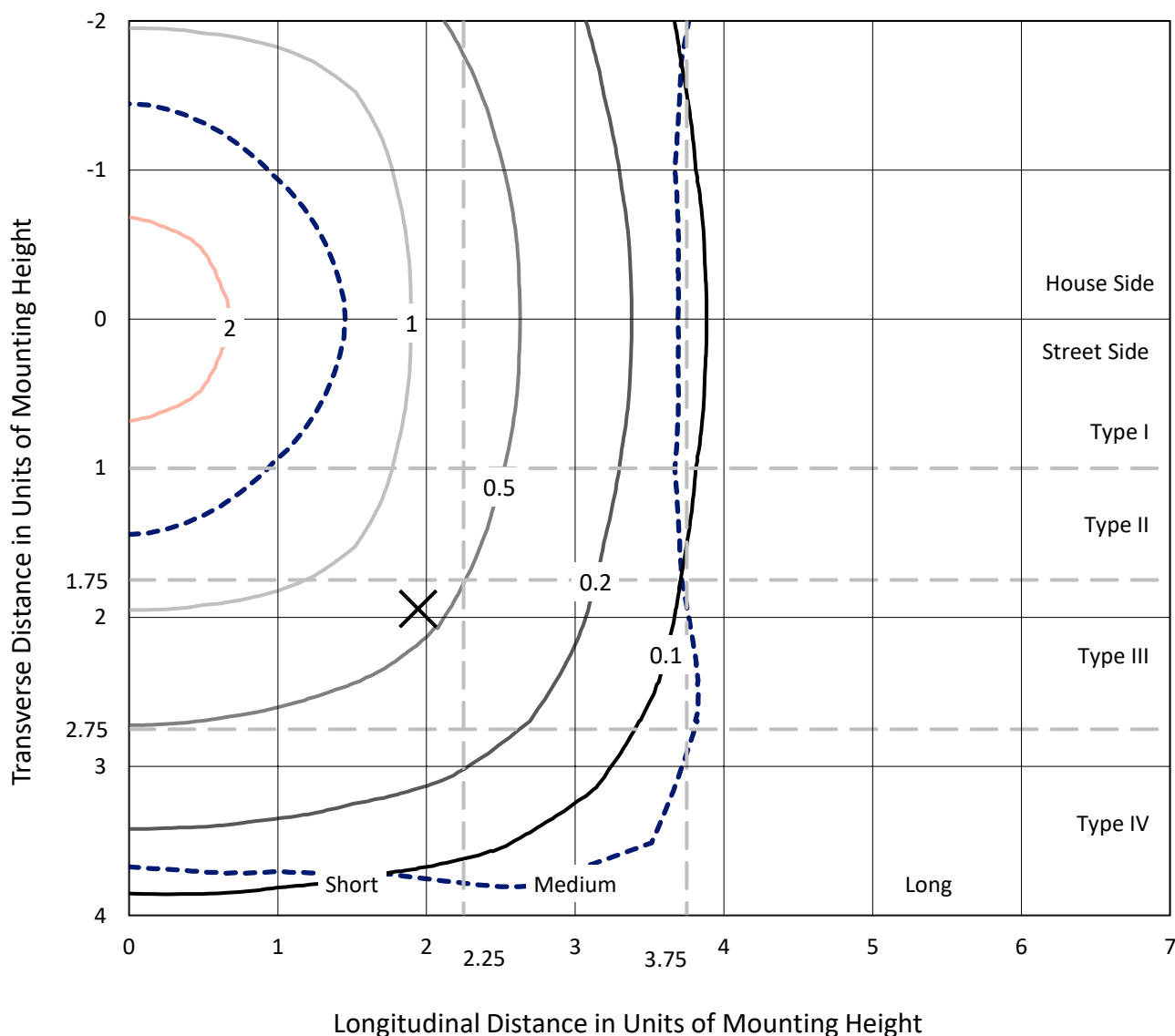
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

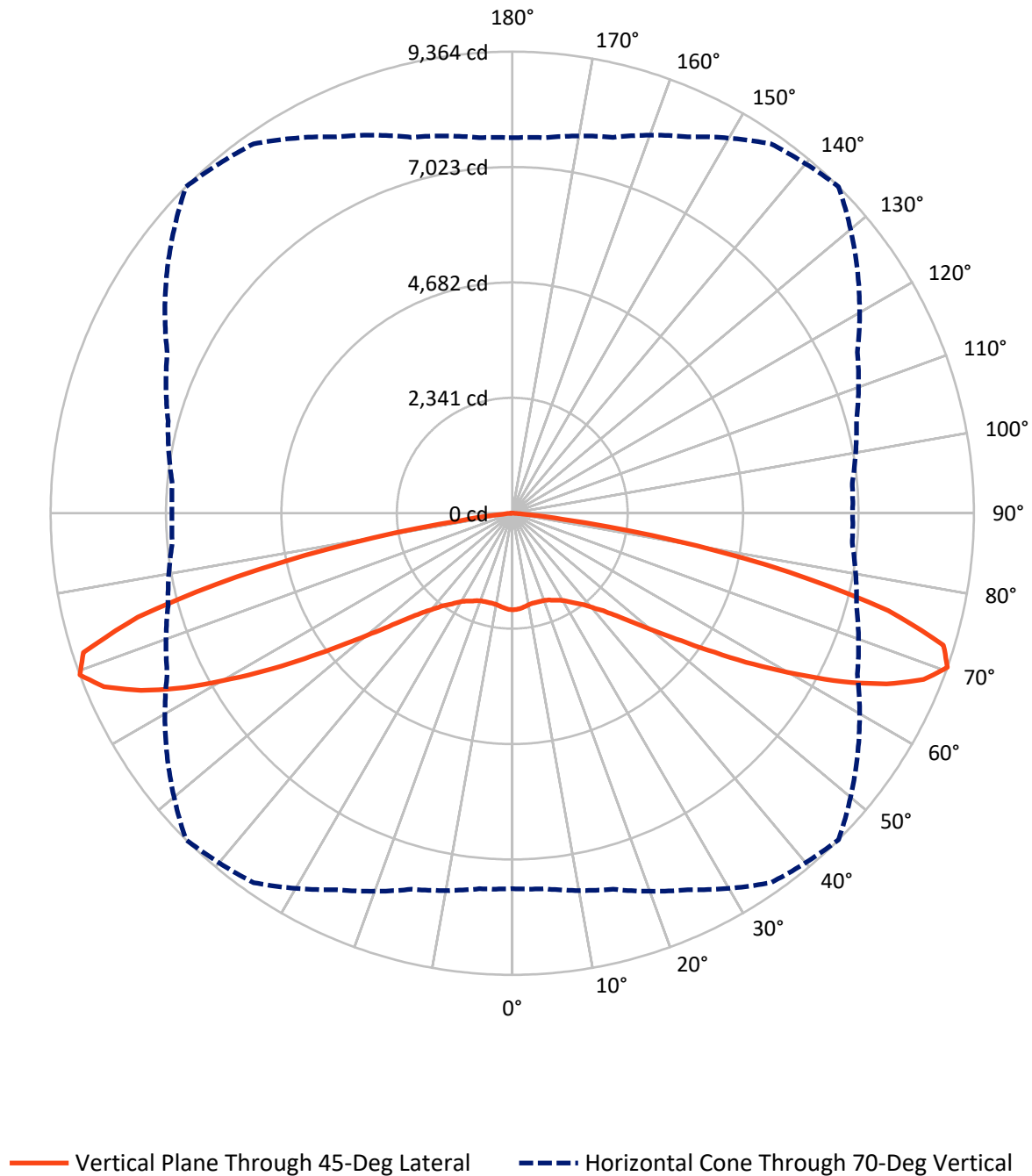


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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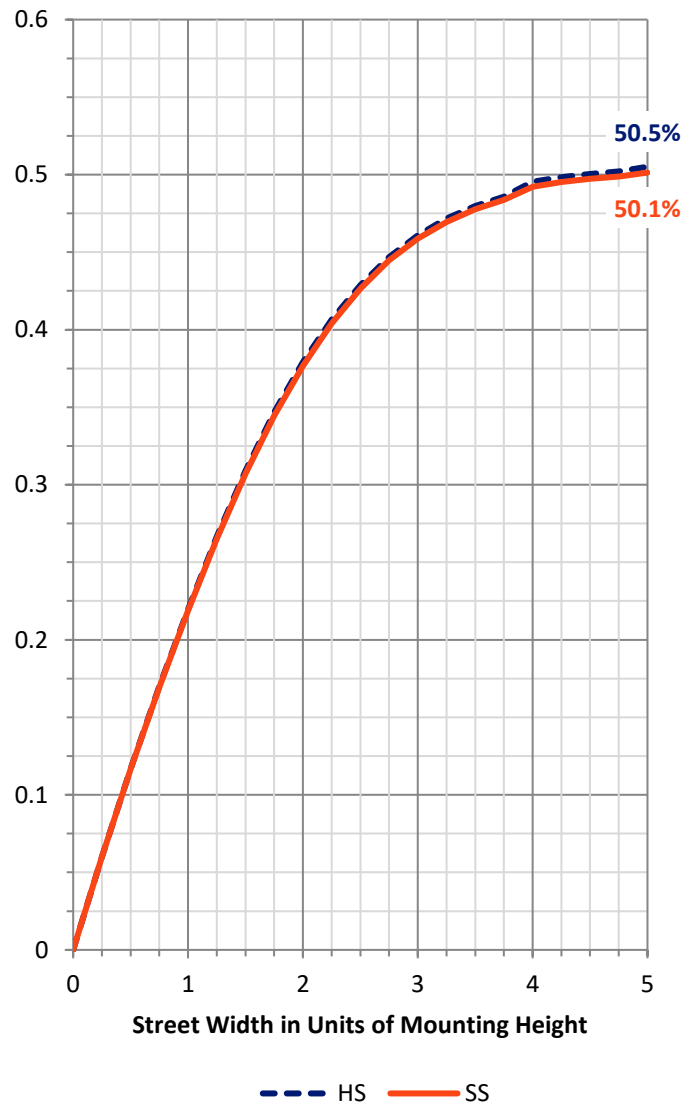
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11565.0	0.0	11565.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11565.0	0.0	11565.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23130.0	0.0	23130.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.1	0.8
10°-20°	536.1	2.3
20°-30°	913.4	3.9
30°-40°	1415.8	6.1
40°-50°	2383.0	10.3
50°-60°	4335.8	18.7
60°-70°	7340.4	31.7
70°-80°	5681.8	24.6
80°-90°	340.5	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°	23130.0	100.0
0°-180°	23130.0	100.0

Coefficient of Utilization



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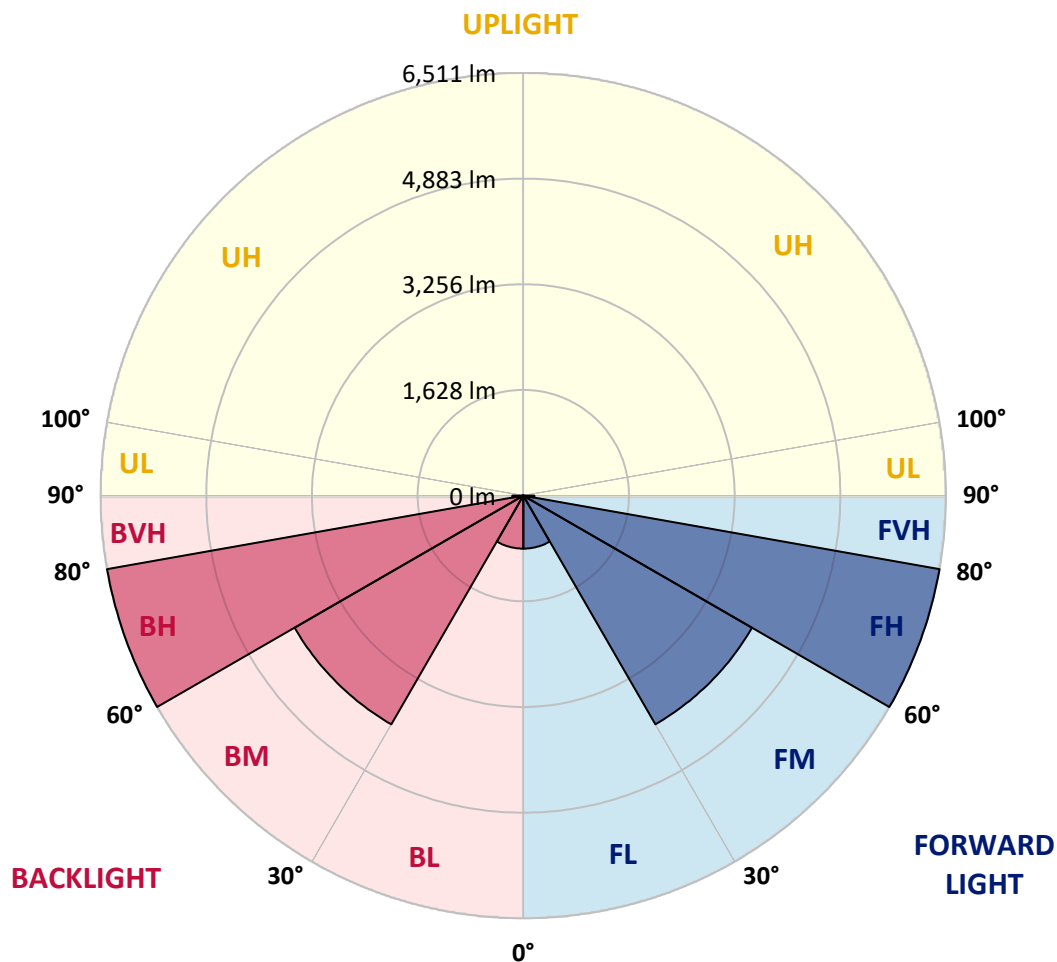
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	816.3	3.5			
FM	(30°-60°)	4067.3	17.6			
FH	(60°-80°)	6511.1	28.1			G3/7500
FVH	(80°-90°)	170.2	0.7			G2/225
BL	(0°-30°)	816.3	3.5	B2/1000		
BM	(30°-60°)	4067.3	17.6	B3/5000		
BH	(60°-80°)	6511.1	28.1	B5		G3/7500
BVH	(80°-90°)	170.2	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°	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2
2.5°	1953.4	1954.6	1954.6	1952.1	1950.9	1950.9	1949.7	1949.7	1953.4	1954.6	1955.8
5°	1936.2	1936.2	1936.2	1935.0	1932.6	1932.6	1930.1	1930.1	1931.4	1935.0	1932.6
7.5°	1913.0	1915.5	1915.5	1910.6	1906.9	1906.9	1905.7	1906.9	1908.2	1911.8	1910.6
10°	1905.7	1906.9	1900.8	1892.3	1886.2	1882.5	1883.7	1886.2	1892.3	1894.7	1895.9
12.5°	1910.6	1910.6	1899.6	1887.4	1876.4	1871.5	1870.3	1878.8	1889.8	1897.2	1899.6
15°	1916.7	1914.3	1900.8	1884.9	1873.9	1872.7	1871.5	1877.6	1893.5	1908.2	1909.4
17.5°	1920.4	1919.1	1902.0	1882.5	1876.4	1876.4	1875.2	1880.1	1897.2	1915.5	1916.7
20°	1932.6	1928.9	1909.4	1888.6	1883.7	1886.2	1882.5	1888.6	1906.9	1928.9	1933.8
22.5°	1957.0	1953.4	1933.8	1913.0	1910.6	1910.6	1909.4	1915.5	1935.0	1958.2	1961.9
25°	1986.3	1982.7	1964.3	1949.7	1952.1	1957.0	1954.6	1955.8	1971.7	1991.2	1997.3
27.5°	2025.4	2019.3	2003.4	1991.2	1998.6	1998.6	1998.6	1997.3	2007.1	2025.4	2031.5
30°	2073.1	2070.6	2053.5	2052.3	2058.4	2052.3	2052.3	2053.5	2054.7	2071.8	2078.0
32.5°	2135.4	2130.5	2121.9	2119.5	2136.6	2141.5	2124.4	2108.5	2117.0	2134.1	2137.8
35°	2238.0	2230.7	2218.4	2205.0	2218.4	2241.7	2205.0	2192.8	2214.8	2238.0	2240.4
37.5°	2377.2	2373.6	2354.0	2329.6	2328.4	2352.8	2314.9	2313.7	2355.3	2383.4	2387.0
40°	2551.9	2555.6	2531.2	2508.0	2495.7	2515.3	2486.0	2497.0	2537.3	2569.0	2566.6
42.5°	2797.5	2784.0	2746.2	2724.2	2710.7	2703.4	2696.1	2713.2	2758.4	2792.6	2819.5
45°	3084.6	3079.7	3032.0	3005.2	2975.8	2964.8	2962.4	2992.9	3047.9	3089.4	3093.1
47.5°	3409.5	3398.5	3368.0	3339.9	3328.9	3315.4	3303.2	3326.4	3381.4	3410.7	3419.3
50°	3744.2	3746.7	3746.7	3741.8	3752.8	3755.2	3722.2	3730.8	3761.3	3758.9	3756.4
52.5°	4126.6	4140.0	4203.6	4209.7	4262.2	4297.6	4237.8	4202.3	4191.3	4125.4	4130.3
55°	4576.1	4588.4	4683.6	4778.9	4920.6	4980.5	4854.7	4744.7	4666.5	4566.4	4571.3
57.5°	5136.9	5143.0	5233.4	5416.6	5641.4	5781.9	5560.8	5343.3	5184.5	5089.2	5051.3
60°	5740.3	5746.4	5878.4	6101.9	6451.3	6622.3	6348.7	5993.2	5792.9	5647.5	5657.3
62.5°	6464.7	6489.2	6607.7	6915.5	7339.4	7531.2	7168.4	6693.2	6422.0	6241.2	6248.5
65°	7240.5	7282.0	7411.5	7749.9	8140.8	8347.2	7902.6	7354.1	7016.9	6795.8	6819.0
67.5°	7743.8	7780.4	7967.3	8341.1	8828.6	8999.6	8425.4	7786.5	7365.1	7101.2	7052.3
70°	7615.5	7646.0	7895.3	8425.4	9147.4	9363.6	8550.0	7723.0	7227.0	6922.9	6903.3
72.5°	6722.5	6659.0	7023.0	7784.1	8783.4	9146.2	8157.9	7053.6	6429.3	6116.6	6079.9
75°	4455.2	4593.2	5130.8	6027.4	7431.0	7880.6	6963.2	5663.4	4877.9	4617.7	4577.4
77.5°	1489.1	1595.4	2073.1	3416.8	5066.0	5741.6	5073.3	3703.9	2620.3	2110.9	2120.7
80°	394.6	389.7	504.5	939.4	2189.1	3325.2	2548.3	1254.6	686.5	497.2	471.5
82.5°	141.7	158.8	204.0	260.2	580.3	1033.5	729.3	351.8	257.8	190.6	184.5
85°	62.3	61.1	88.0	103.8	145.4	193.0	171.0	149.0	130.7	86.7	80.6
87.5°	13.4	13.4	20.8	15.9	25.7	25.7	31.8	37.9	39.1	25.7	20.8
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)