

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: P452916

Luminaire Tested: **GALN-SA3D-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19247 lumens
Efficiency: N/A
Efficacy: 104.6 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): 184
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

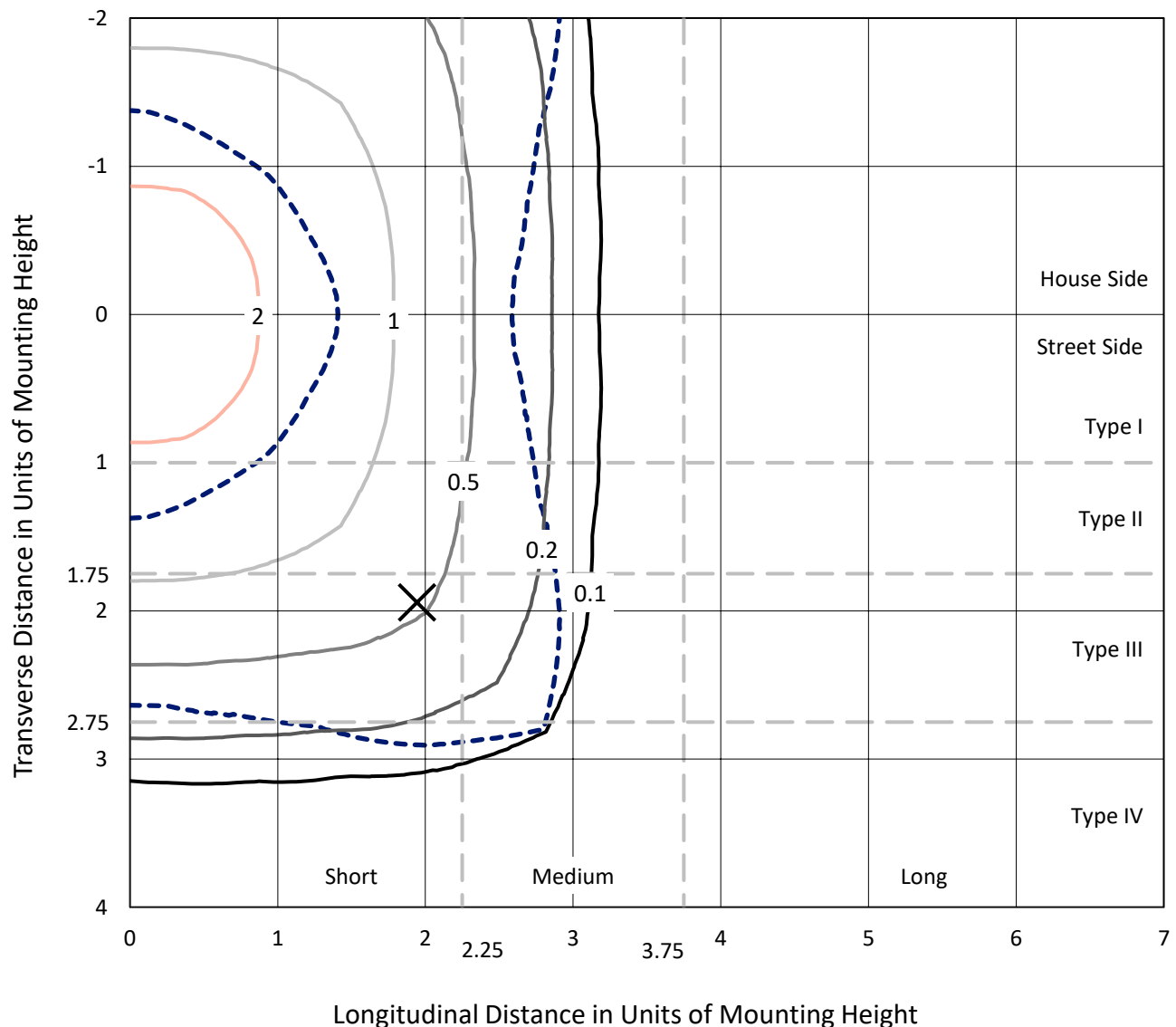


REPORT NUMBER: P452916

CATALOG NUMBER: GALN-SA3D-830-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

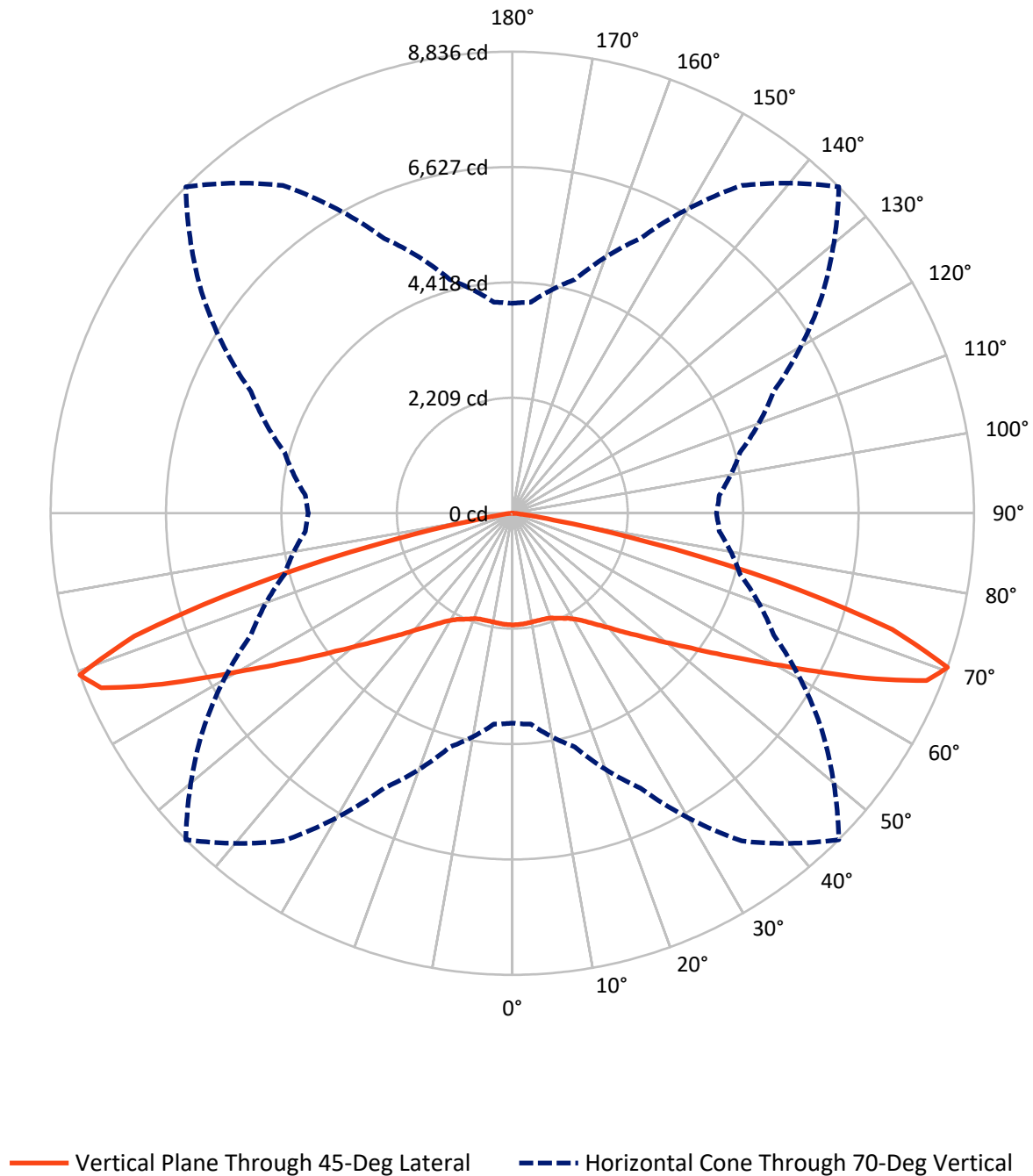


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - N/A

REPORT NUMBER: P452916

CATALOG NUMBER: GALN-SA3D-830-U-5MQ

Luminous Intensity Polar Plot



REPORT NUMBER: P452916

CATALOG NUMBER: GALN-SA3D-830-U-5MQ

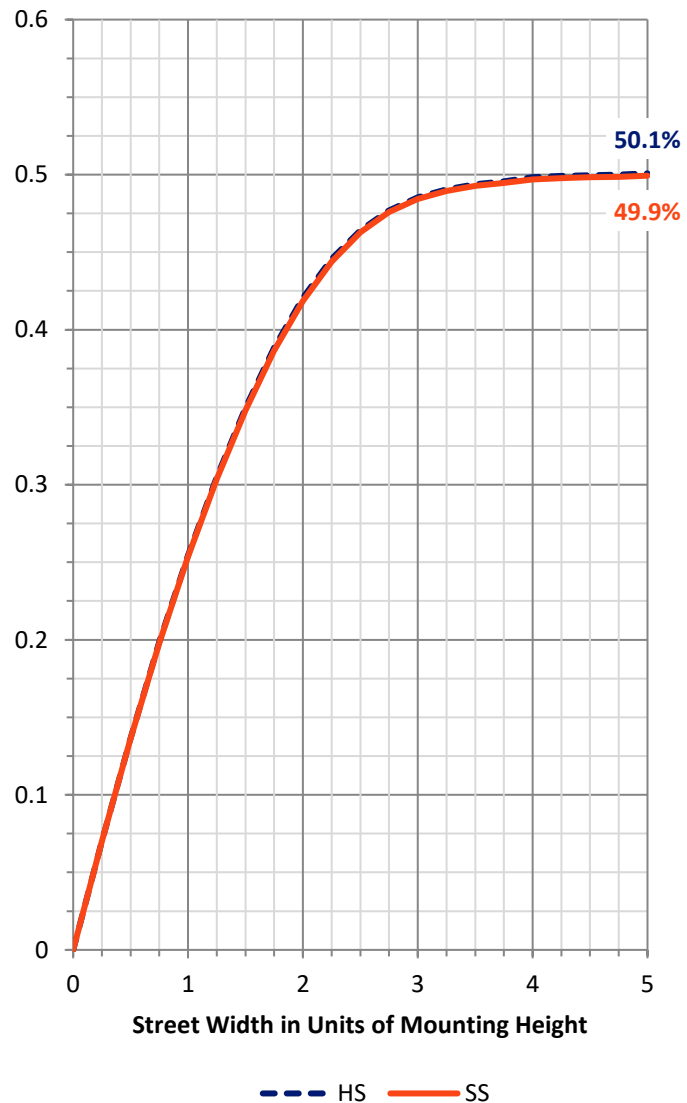
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9623.5	0.0	9623.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9623.5	0.0	9623.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19247.0	0.0	19247.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.7	1.1
10°-20°	594.7	3.1
20°-30°	1017.2	5.3
30°-40°	1614.5	8.4
40°-50°	2604.6	13.5
50°-60°	4237.7	22.0
60°-70°	6143.2	31.9
70°-80°	2724.9	14.2
80°-90°	107.5	0.6
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°	19247.0	100.0
0°-180°	19247.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452916

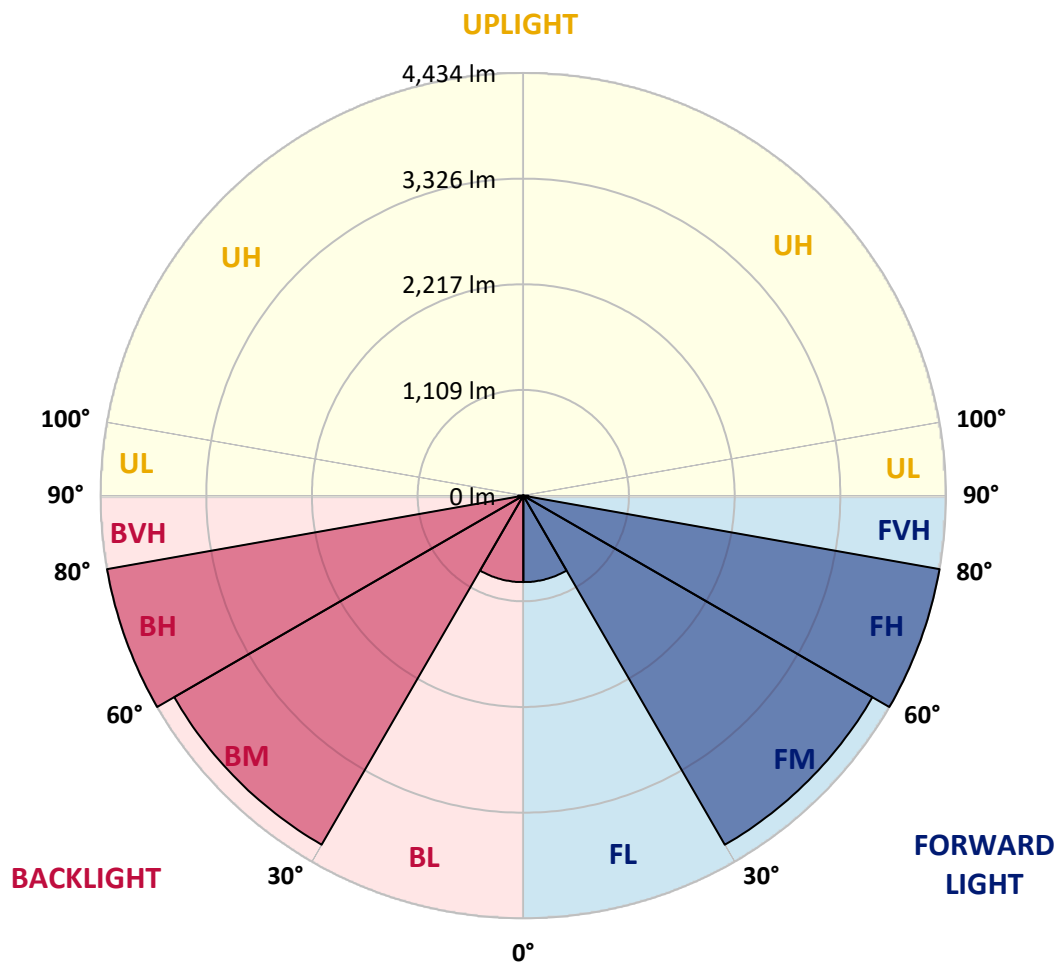
CATALOG NUMBER: GALN-SA3D-830-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	907.3	4.7			
FM	(30°-60°)	4228.4	22.0			
FH	(60°-80°)	4434.0	23.0			G2/5000
FVH	(80°-90°)	53.7	0.3			G1/100
BL	(0°-30°)	907.3	4.7	B2/1000		
BM	(30°-60°)	4228.4	22.0	B3/5000		
BH	(60°-80°)	4434.0	23.0	B4/5000		G2/5000
BVH	(80°-90°)	53.7	0.3			G1/100
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





REPORT NUMBER: P452916

CATALOG NUMBER: GALN-SA3D-830-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2137.3	2137.3	2137.3	2137.3	2137.3	2137.3	2137.3	2137.3	2137.3	2137.3	2137.3
2.5°	2137.3	2139.3	2136.3	2134.2	2133.2	2133.2	2132.2	2133.2	2139.3	2140.3	2137.3
5°	2131.2	2133.2	2132.2	2130.2	2129.2	2129.2	2128.2	2127.1	2132.2	2134.2	2133.2
7.5°	2123.1	2124.1	2123.1	2122.1	2123.1	2122.1	2119.0	2117.0	2121.1	2121.1	2120.0
10°	2108.9	2110.9	2109.9	2110.9	2112.9	2112.9	2108.9	2104.8	2105.8	2103.8	2103.8
12.5°	2091.6	2094.7	2095.7	2099.8	2104.8	2110.9	2101.8	2092.7	2090.6	2089.6	2088.6
15°	2080.5	2083.5	2087.6	2091.6	2100.8	2114.0	2100.8	2086.6	2082.5	2078.5	2076.4
17.5°	2077.4	2081.5	2087.6	2093.7	2105.8	2119.0	2107.9	2093.7	2083.5	2077.4	2075.4
20°	2085.6	2088.6	2097.7	2108.9	2126.1	2139.3	2128.2	2112.9	2097.7	2088.6	2085.6
22.5°	2101.8	2106.9	2118.0	2138.3	2162.6	2181.9	2166.7	2141.3	2117.0	2104.8	2100.8
25°	2137.3	2141.3	2154.5	2181.9	2210.3	2228.6	2212.4	2182.9	2149.5	2133.2	2128.2
27.5°	2191.1	2197.1	2211.3	2243.8	2267.1	2277.3	2266.1	2245.8	2221.5	2204.2	2200.2
30°	2267.1	2274.2	2295.5	2330.0	2345.2	2351.3	2346.2	2333.1	2315.8	2297.6	2293.5
32.5°	2369.6	2373.6	2398.0	2430.4	2444.6	2446.7	2440.6	2434.5	2406.1	2375.7	2373.6
35°	2484.2	2491.3	2520.7	2559.3	2572.5	2573.5	2561.3	2552.2	2518.7	2494.3	2494.3
37.5°	2636.4	2639.4	2667.8	2711.4	2725.6	2721.6	2715.5	2707.4	2671.9	2640.4	2641.4
40°	2814.9	2821.0	2845.3	2896.0	2896.0	2891.0	2895.0	2888.9	2853.4	2823.0	2824.0
42.5°	3026.9	3029.9	3059.4	3113.1	3109.1	3098.9	3103.0	3094.9	3072.5	3038.1	3025.9
45°	3253.1	3265.3	3316.0	3367.7	3359.6	3327.2	3343.4	3341.4	3321.1	3269.3	3272.4
47.5°	3526.0	3546.3	3594.9	3656.8	3647.7	3597.0	3615.2	3627.4	3599.0	3542.2	3532.1
50°	3833.3	3846.5	3918.5	3976.4	3968.2	3914.5	3956.1	3958.1	3887.1	3807.0	3807.0
52.5°	4161.0	4174.2	4271.5	4361.8	4366.9	4288.8	4322.3	4320.2	4204.6	4099.1	4078.8
55°	4528.2	4534.3	4660.0	4792.9	4821.3	4745.2	4749.3	4708.7	4558.6	4435.9	4424.7
57.5°	4907.5	4929.9	5068.8	5241.3	5325.5	5278.8	5257.5	5149.0	5003.9	4862.9	4855.8
60°	5327.5	5328.5	5509.1	5713.0	5883.4	5914.8	5827.6	5682.5	5494.9	5308.2	5300.1
62.5°	5618.6	5662.2	5890.5	6235.4	6540.7	6717.2	6486.9	6182.6	5813.4	5512.1	5481.7
65°	5678.5	5707.9	6055.8	6640.1	7263.9	7644.3	7111.8	6464.6	5834.7	5433.0	5412.7
67.5°	5194.6	5226.1	5694.7	6591.4	7771.1	8551.2	7517.5	6328.7	5473.6	4976.5	4937.0
70°	4017.9	4053.4	4632.7	5802.2	7658.5	8836.2	7228.4	5520.2	4514.0	3977.4	3905.3
72.5°	2136.3	2267.1	2762.1	3982.4	6216.1	7607.8	5927.0	4028.1	2911.3	2379.7	2284.4
75°	780.1	796.3	1072.2	1766.0	3616.2	5216.9	3755.2	1921.2	1104.7	853.1	809.5
77.5°	322.6	321.6	353.0	533.6	1313.6	2671.9	1465.8	564.0	352.0	325.6	321.6
80°	190.7	190.7	210.0	222.1	345.9	806.4	386.5	251.6	211.0	192.7	195.8
82.5°	85.2	90.3	132.9	140.0	167.4	221.1	186.6	160.3	138.0	95.4	86.2
85°	46.7	40.6	70.0	73.0	80.1	82.2	88.3	87.2	80.1	46.7	47.7
87.5°	9.1	11.2	20.3	15.2	17.2	15.2	20.3	28.4	29.4	16.2	13.2
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)