

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: P458254

Luminaire Tested: **GALN-SA9C-830-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458254
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-SA9C-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 53007 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 481
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



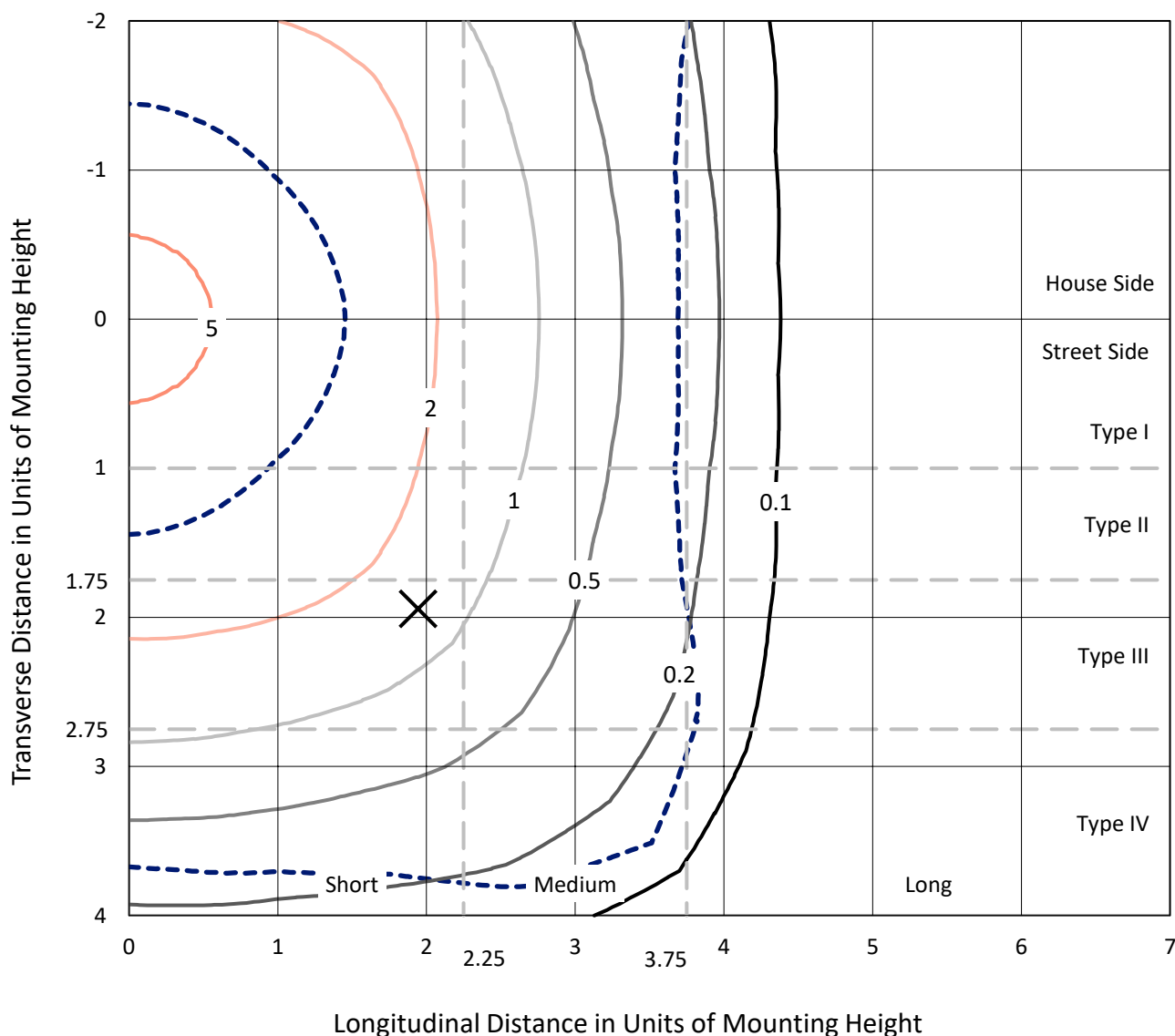
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

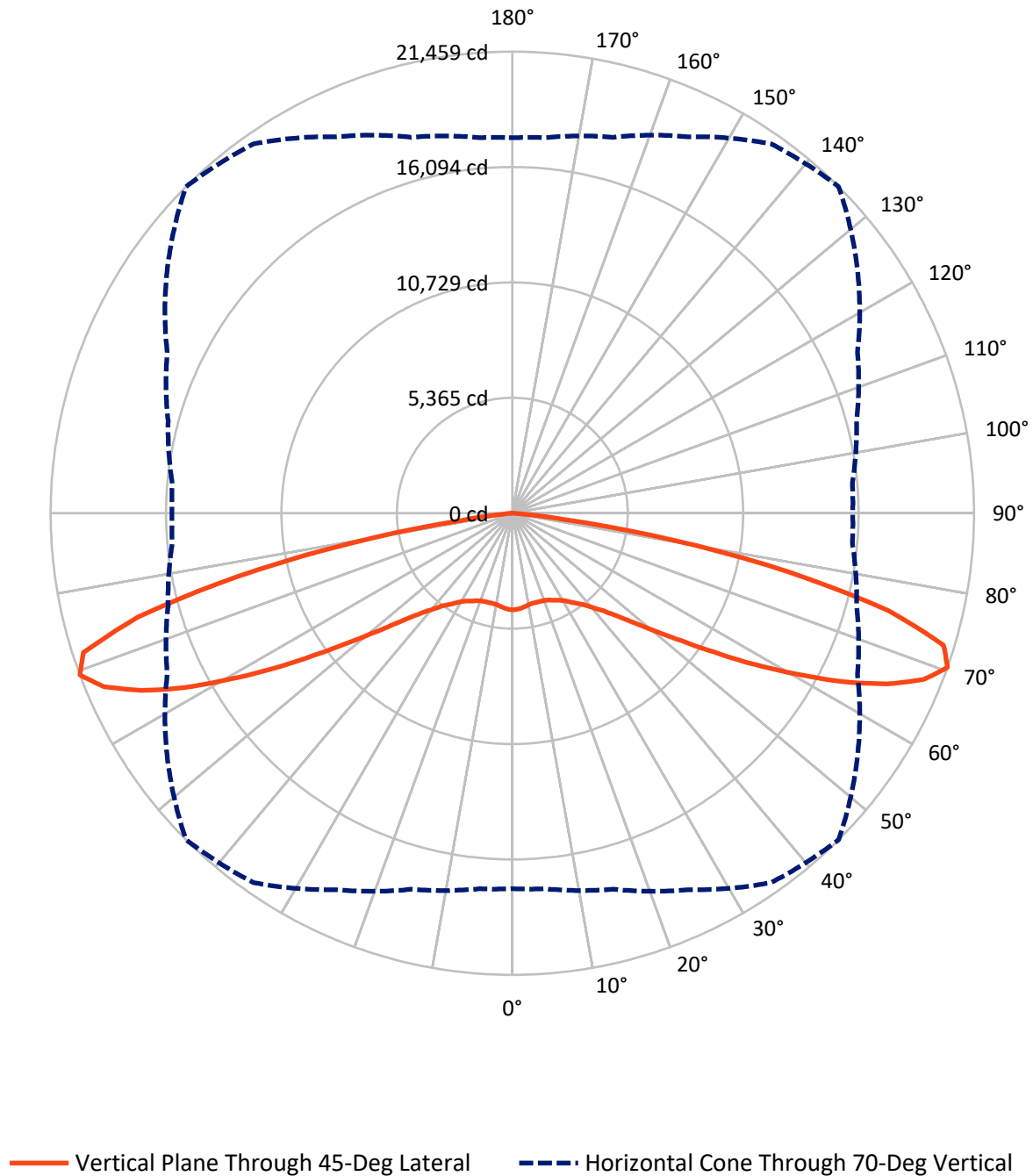


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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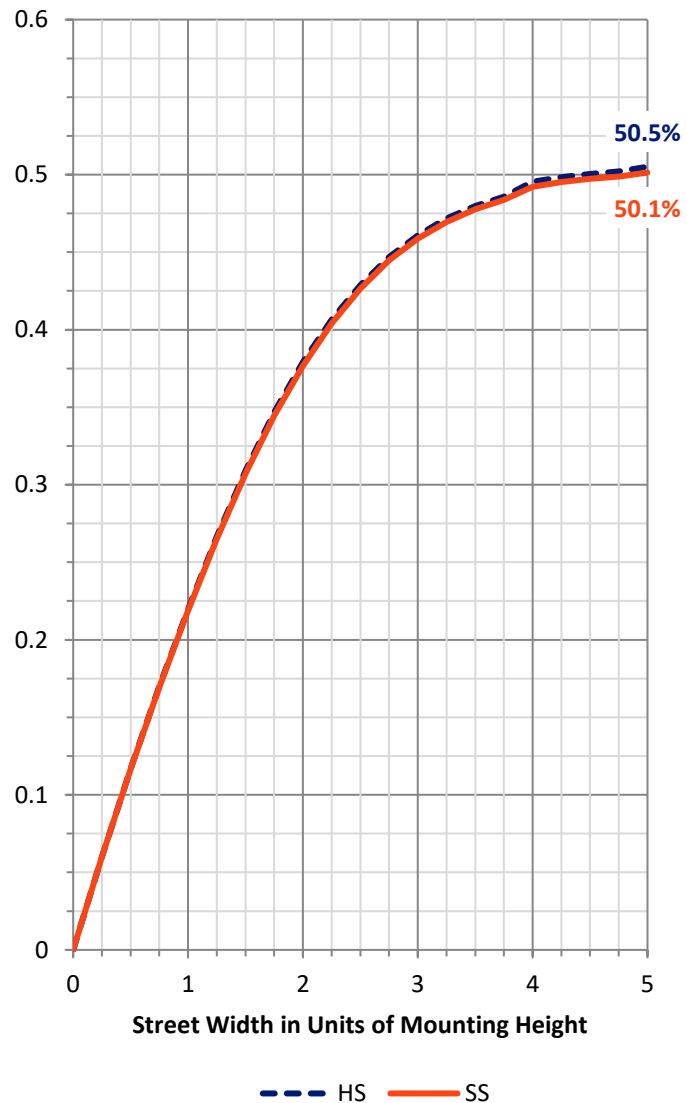
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26503.5	0.0	26503.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26503.5	0.0	26503.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	53007.0	0.0	53007.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.7	0.8
10°-20°	1228.6	2.3
20°-30°	2093.3	3.9
30°-40°	3244.6	6.1
40°-50°	5461.2	10.3
50°-60°	9936.4	18.7
60°-70°	16822.0	31.7
70°-80°	13020.9	24.6
80°-90°	780.2	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°	53007.0	100.0
0°-180°	53007.0	100.0

Coefficient of Utilization



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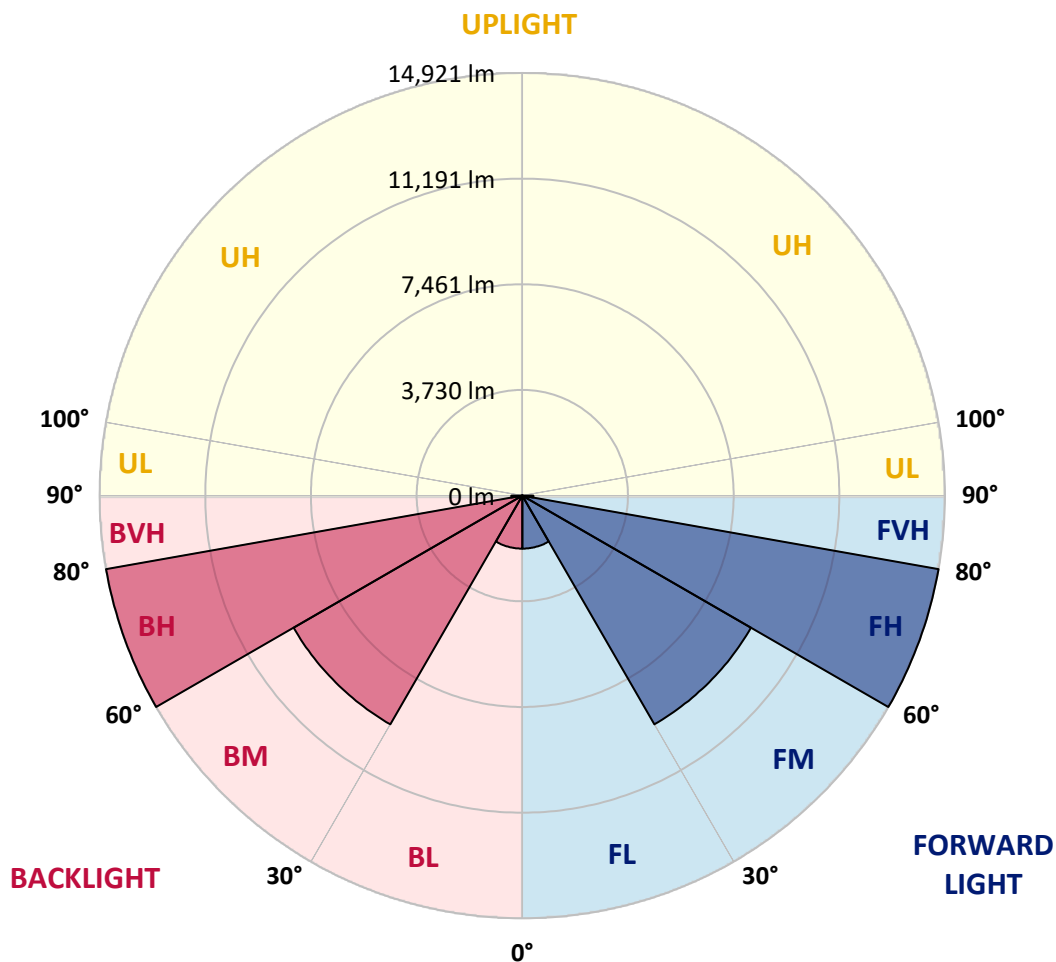
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1870.8	3.5			
FM	(30°-60°)	9321.1	17.6			
FH	(60°-80°)	14921.5	28.1			G5
FVH	(80°-90°)	390.1	0.7			G3/500
BL	(0°-30°)	1870.8	3.5	B3/2500		
BM	(30°-60°)	9321.1	17.6	B5		
BH	(60°-80°)	14921.5	28.1	B5		G5
BVH	(80°-90°)	390.1	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4487.7	4487.7	4487.7	4487.7	4487.7	4487.7	4487.7	4487.7	4487.7	4487.7	4487.7
2.5°	4476.5	4479.3	4479.3	4473.7	4470.9	4470.9	4468.1	4468.1	4476.5	4479.3	4482.1
5°	4437.3	4437.3	4437.3	4434.5	4428.9	4428.9	4423.3	4423.3	4426.1	4434.5	4428.9
7.5°	4384.1	4389.7	4389.7	4378.5	4370.1	4370.1	4367.3	4370.1	4372.9	4381.3	4378.5
10°	4367.3	4370.1	4356.1	4336.5	4322.5	4314.1	4316.9	4322.5	4336.5	4342.1	4344.9
12.5°	4378.5	4378.5	4353.3	4325.3	4300.1	4288.9	4286.1	4305.7	4330.9	4347.7	4353.3
15°	4392.5	4386.9	4356.1	4319.7	4294.5	4291.7	4288.9	4302.9	4339.3	4372.9	4375.7
17.5°	4400.9	4398.1	4358.9	4314.1	4300.1	4300.1	4297.3	4308.5	4347.7	4389.7	4392.5
20°	4428.9	4420.5	4375.7	4328.1	4316.9	4322.5	4314.1	4328.1	4370.1	4420.5	4431.7
22.5°	4484.9	4476.5	4431.7	4384.1	4378.5	4378.5	4375.7	4389.7	4434.5	4487.7	4496.1
25°	4552.1	4543.7	4501.7	4468.1	4473.7	4484.9	4479.3	4482.1	4518.5	4563.3	4577.3
27.5°	4641.7	4627.7	4591.3	4563.3	4580.1	4580.1	4580.1	4577.3	4599.7	4641.7	4655.7
30°	4750.9	4745.3	4706.1	4703.3	4717.3	4703.3	4703.3	4706.1	4708.9	4748.1	4762.0
32.5°	4893.6	4882.4	4862.8	4857.2	4896.4	4907.6	4868.4	4832.0	4851.6	4890.8	4899.2
35°	5128.8	5112.0	5084.0	5053.2	5084.0	5137.2	5053.2	5025.2	5075.6	5128.8	5134.4
37.5°	5447.9	5439.5	5394.7	5338.8	5336.0	5391.9	5305.2	5302.4	5397.5	5461.9	5470.3
40°	5848.3	5856.7	5800.7	5747.5	5719.5	5764.3	5697.1	5722.3	5814.7	5887.5	5881.9
42.5°	6411.0	6380.2	6293.4	6243.0	6212.2	6195.4	6178.6	6217.8	6321.4	6399.8	6461.4
45°	7068.9	7057.7	6948.5	6886.9	6819.7	6794.5	6788.9	6858.9	6984.9	7080.1	7088.5
47.5°	7813.6	7788.4	7718.4	7654.0	7628.8	7598.0	7570.0	7623.2	7749.2	7816.4	7836.0
50°	8580.6	8586.2	8586.2	8575.0	8600.2	8605.8	8530.3	8549.9	8619.8	8614.2	8608.6
52.5°	9456.9	9487.7	9633.3	9647.3	9767.7	9848.8	9711.7	9630.5	9605.3	9454.1	9465.3
55°	10487.1	10515.1	10733.5	10951.9	11276.6	11413.8	11125.4	10873.5	10694.3	10464.7	10475.9
57.5°	11772.1	11786.1	11993.3	12413.2	12928.4	13250.3	12743.6	12245.3	11881.3	11663.0	11576.2
60°	13155.1	13169.1	13471.5	13983.8	14784.5	15176.4	14549.3	13734.6	13275.5	12942.4	12964.8
62.5°	14815.3	14871.3	15142.8	15848.3	16819.7	17259.3	16427.8	15338.8	14717.3	14302.9	14319.7
65°	16593.0	16688.2	16984.9	17760.4	18656.3	19129.4	18110.3	16853.3	16080.7	15573.9	15627.1
67.5°	17746.4	17830.4	18258.7	19115.4	20232.4	20624.3	19308.6	17844.4	16878.5	16273.8	16161.8
70°	17452.4	17522.4	18093.5	19308.6	20963.1	21458.6	19594.1	17698.8	16562.2	15865.1	15820.3
72.5°	15406.0	15260.4	16094.7	17838.8	20128.8	20960.3	18695.4	16164.6	14734.1	14017.4	13933.4
75°	10210.0	10526.3	11758.1	13813.0	17029.7	18059.9	15957.5	12978.8	11178.6	10582.3	10489.9
77.5°	3412.7	3656.2	4750.9	7830.4	11609.8	13157.9	11626.6	8488.3	6005.1	4837.6	4860.0
80°	904.3	893.1	1156.2	2152.9	5016.8	7620.4	5839.9	2875.1	1573.4	1139.4	1080.6
82.5°	324.7	363.9	467.5	596.3	1329.8	2368.4	1671.3	806.3	590.7	436.7	422.7
85°	142.8	140.0	201.6	238.0	333.1	442.3	391.9	341.5	299.6	198.8	184.8
87.5°	30.8	30.8	47.6	36.4	58.8	58.8	72.8	86.8	89.6	58.8	47.6
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)