

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: P457094

Luminaire Tested: **GALN-SA8B-830-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457094
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-SA8B-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 38214 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 325
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



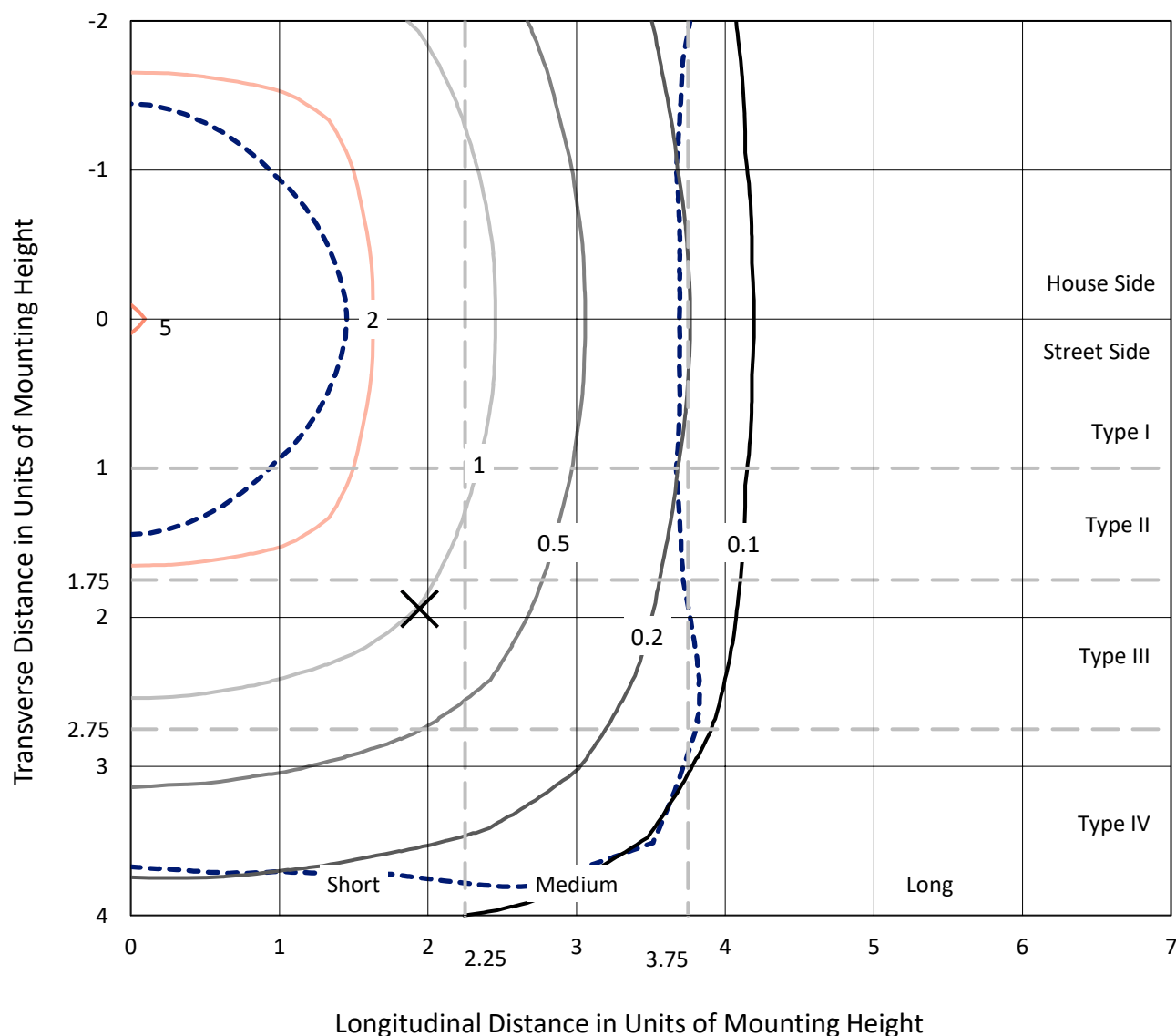
REPORT NUMBER: P457094

CATALOG NUMBER: GALN-SA8B-830-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

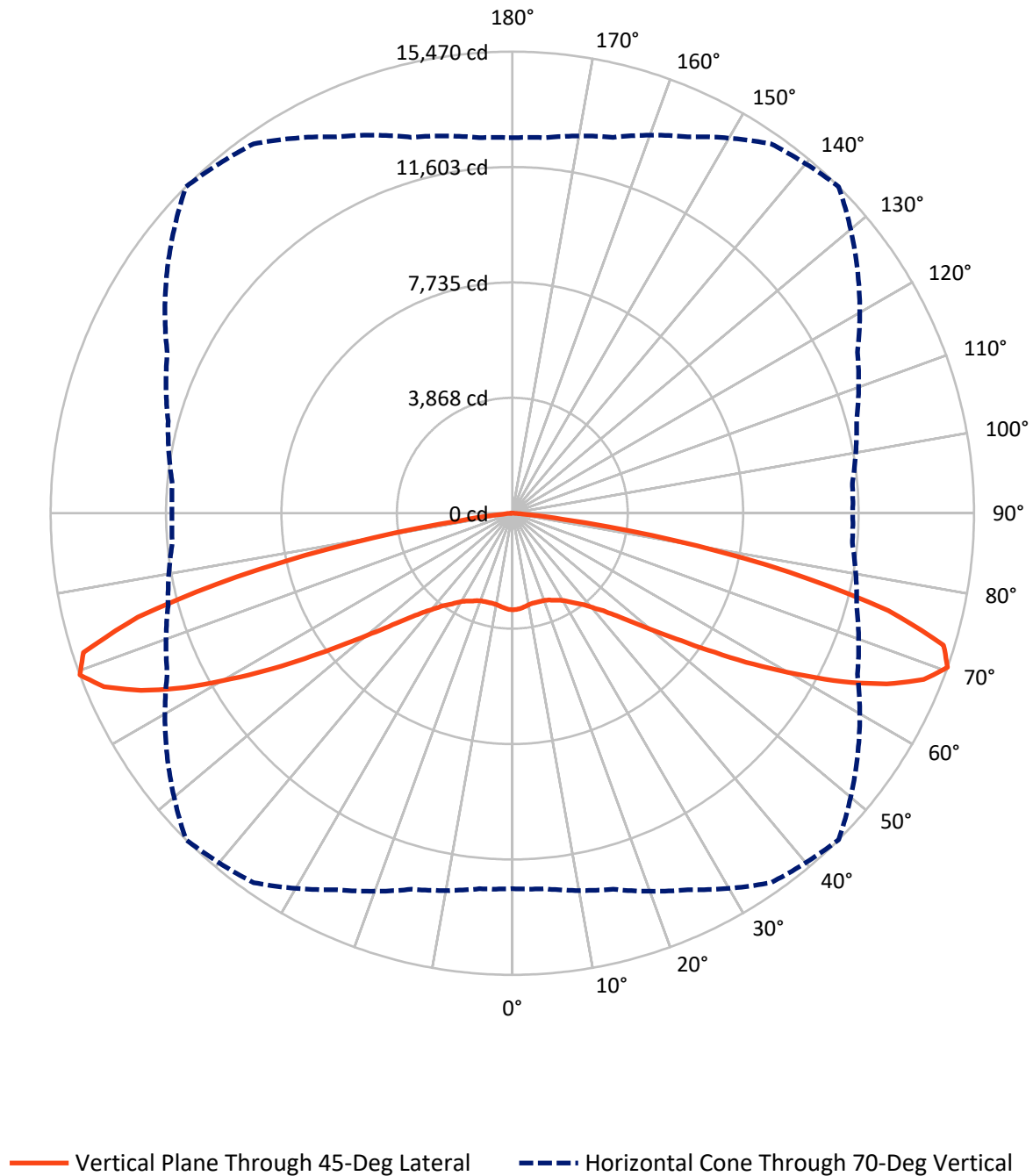


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - N/A

REPORT NUMBER: P457094

CATALOG NUMBER: GALN-SA8B-830-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P457094

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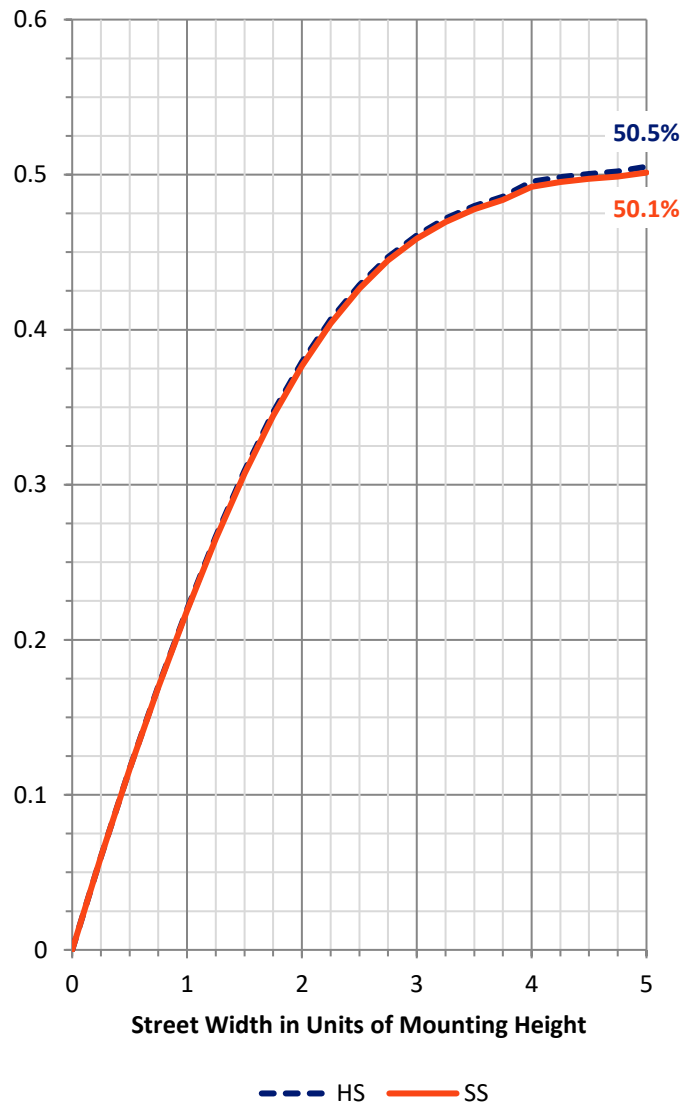
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19107.0	0.0	19107.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19107.0	0.0	19107.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	38214.0	0.0	38214.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.6	0.8
10°-20°	885.8	2.3
20°-30°	1509.1	3.9
30°-40°	2339.1	6.1
40°-50°	3937.1	10.3
50°-60°	7163.4	18.7
60°-70°	12127.4	31.7
70°-80°	9387.1	24.6
80°-90°	562.5	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°	38214.0	100.0
0°-180°	38214.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457094

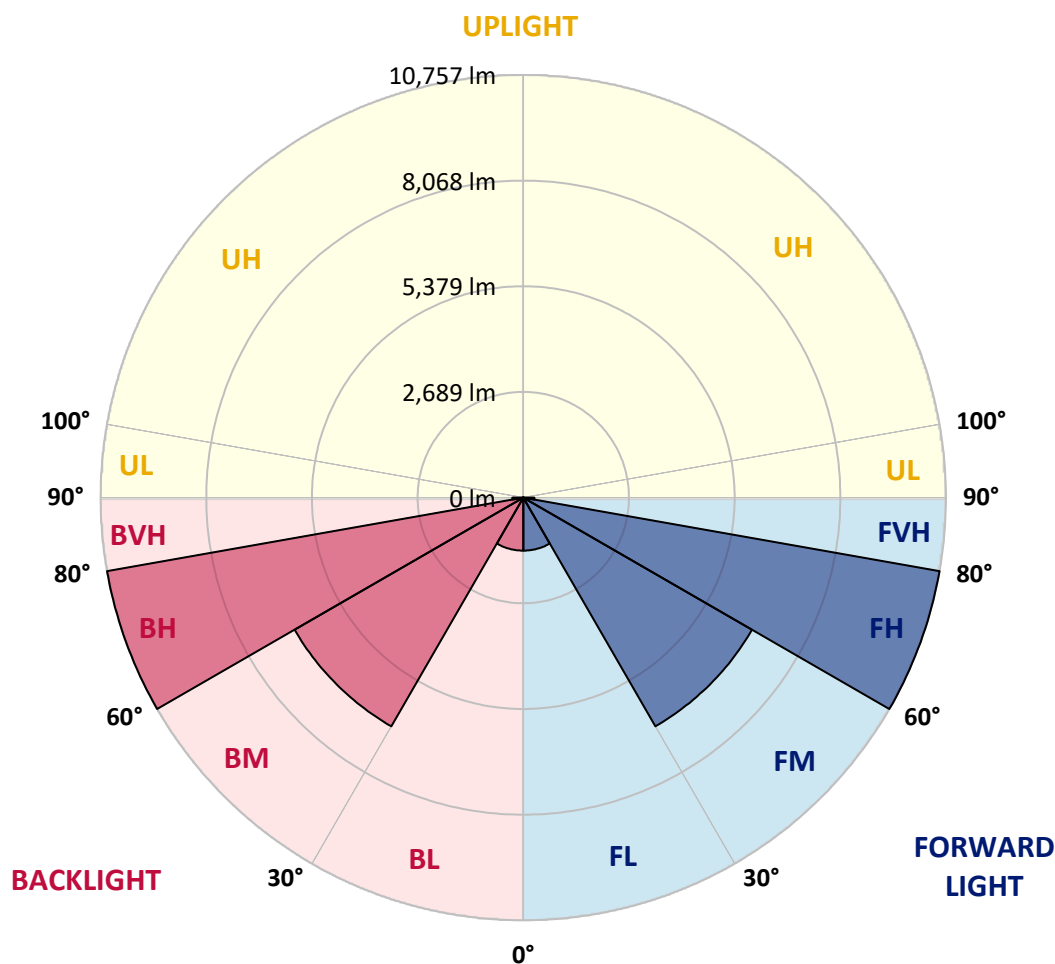
CATALOG NUMBER: GALN-SA8B-830-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1348.7	3.5			
FM	(30°-60°)	6719.8	17.6			
FH	(60°-80°)	10757.2	28.1			G4/12000
FVH	(80°-90°)	281.2	0.7			G3/500
BL	(0°-30°)	1348.7	3.5	B3/2500		
BM	(30°-60°)	6719.8	17.6	B4/8500		
BH	(60°-80°)	10757.2	28.1	B5		G4/12000
BVH	(80°-90°)	281.2	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-G4

Type V Short





REPORT NUMBER: P457094

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3235.3	3235.3	3235.3	3235.3	3235.3	3235.3	3235.3	3235.3	3235.3	3235.3	3235.3
2.5°	3227.2	3229.2	3229.2	3225.2	3223.2	3223.2	3221.2	3221.2	3227.2	3229.2	3231.2
5°	3199.0	3199.0	3199.0	3196.9	3192.9	3192.9	3188.9	3188.9	3190.9	3196.9	3192.9
7.5°	3160.6	3164.6	3164.6	3156.6	3150.5	3150.5	3148.5	3150.5	3152.5	3158.6	3156.6
10°	3148.5	3150.5	3140.4	3126.3	3116.2	3110.2	3112.2	3116.2	3126.3	3130.3	3132.4
12.5°	3156.6	3156.6	3138.4	3118.2	3100.1	3092.0	3090.0	3104.1	3122.3	3134.4	3138.4
15°	3166.7	3162.6	3140.4	3114.2	3096.0	3094.0	3092.0	3102.1	3128.3	3152.5	3154.6
17.5°	3172.7	3170.7	3142.4	3110.2	3100.1	3100.1	3098.0	3106.1	3134.4	3164.6	3166.7
20°	3192.9	3186.8	3154.6	3120.2	3112.2	3116.2	3110.2	3120.2	3150.5	3186.8	3194.9
22.5°	3233.3	3227.2	3194.9	3160.6	3156.6	3156.6	3154.6	3164.6	3196.9	3235.3	3241.3
25°	3281.7	3275.6	3245.4	3221.2	3225.2	3233.3	3229.2	3231.2	3257.5	3289.8	3299.9
27.5°	3346.3	3336.2	3310.0	3289.8	3301.9	3301.9	3301.9	3299.9	3316.0	3346.3	3356.4
30°	3425.0	3421.0	3392.7	3390.7	3400.8	3390.7	3390.7	3392.7	3394.7	3423.0	3433.1
32.5°	3527.9	3519.9	3505.7	3501.7	3530.0	3538.0	3509.8	3483.5	3497.7	3525.9	3532.0
35°	3697.5	3685.4	3665.2	3643.0	3665.2	3703.5	3643.0	3622.8	3659.1	3697.5	3701.5
37.5°	3927.5	3921.5	3889.2	3848.8	3846.8	3887.2	3824.6	3822.6	3891.2	3937.6	3943.7
40°	4216.2	4222.2	4181.9	4143.5	4123.3	4155.6	4107.2	4125.3	4191.9	4244.4	4240.4
42.5°	4621.8	4599.6	4537.1	4500.7	4478.5	4466.4	4454.3	4482.6	4557.2	4613.8	4658.2
45°	5096.1	5088.1	5009.3	4964.9	4916.5	4898.3	4894.3	4944.8	5035.6	5104.2	5110.3
47.5°	5633.0	5614.8	5564.4	5517.9	5499.8	5477.6	5457.4	5495.7	5586.6	5635.0	5649.1
50°	6186.0	6190.0	6190.0	6182.0	6200.1	6204.2	6149.7	6163.8	6214.2	6210.2	6206.2
52.5°	6817.7	6839.9	6944.9	6955.0	7041.7	7100.3	7001.4	6942.8	6924.7	6815.7	6823.8
55°	7560.4	7580.6	7738.0	7895.5	8129.6	8228.5	8020.6	7839.0	7709.8	7544.3	7552.4
57.5°	8486.8	8496.9	8646.3	8949.0	9320.4	9552.5	9187.2	8827.9	8565.5	8408.1	8345.5
60°	9483.8	9493.9	9711.9	10081.2	10658.5	10941.0	10488.9	9901.6	9570.6	9330.5	9346.6
62.5°	10680.7	10721.0	10916.8	11425.4	12125.8	12442.6	11843.2	11058.1	10610.0	10311.3	10323.4
65°	11962.3	12030.9	12244.8	12803.9	13449.7	13790.8	13056.2	12150.0	11592.9	11227.6	11266.0
67.5°	12793.8	12854.3	13163.1	13780.7	14586.0	14868.6	13920.0	12864.4	12168.1	11732.2	11651.5
70°	12581.9	12632.3	13044.1	13920.0	15112.8	15470.0	14125.9	12759.5	11940.1	11437.5	11405.2
72.5°	11106.5	11001.6	11603.0	12860.4	14511.3	15110.8	13478.0	11653.5	10622.1	10105.5	10044.9
75°	7360.6	7588.7	8476.7	9958.1	12277.1	13019.8	11504.1	9356.7	8058.9	7629.1	7562.4
77.5°	2460.3	2635.9	3425.0	5645.1	8369.8	9485.9	8381.9	6119.4	4329.2	3487.6	3503.7
80°	651.9	643.8	833.5	1552.0	3616.7	5493.7	4210.1	2072.8	1134.3	821.4	779.1
82.5°	234.1	262.4	337.1	429.9	958.7	1707.5	1204.9	581.3	425.9	314.8	304.8
85°	102.9	100.9	145.3	171.6	240.2	318.9	282.6	246.2	216.0	143.3	133.2
87.5°	22.2	22.2	34.3	26.2	42.4	42.4	52.5	62.6	64.6	42.4	34.3
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)