

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: P453849

Luminaire Tested: **GALN-SA4D-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4D-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25090 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 245
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

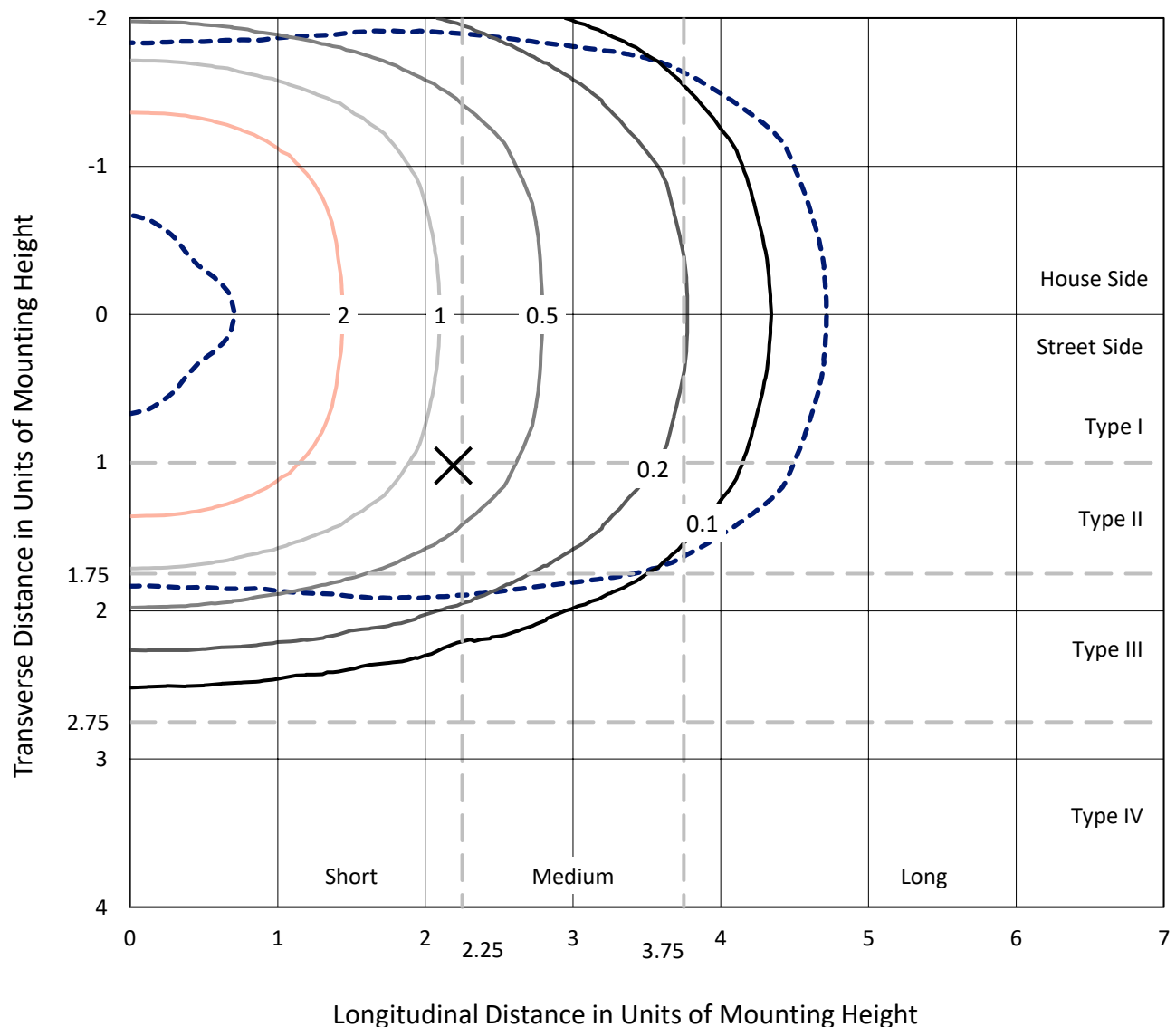


REPORT NUMBER: P453849

CATALOG NUMBER: GALN-SA4D-830-U-RW

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

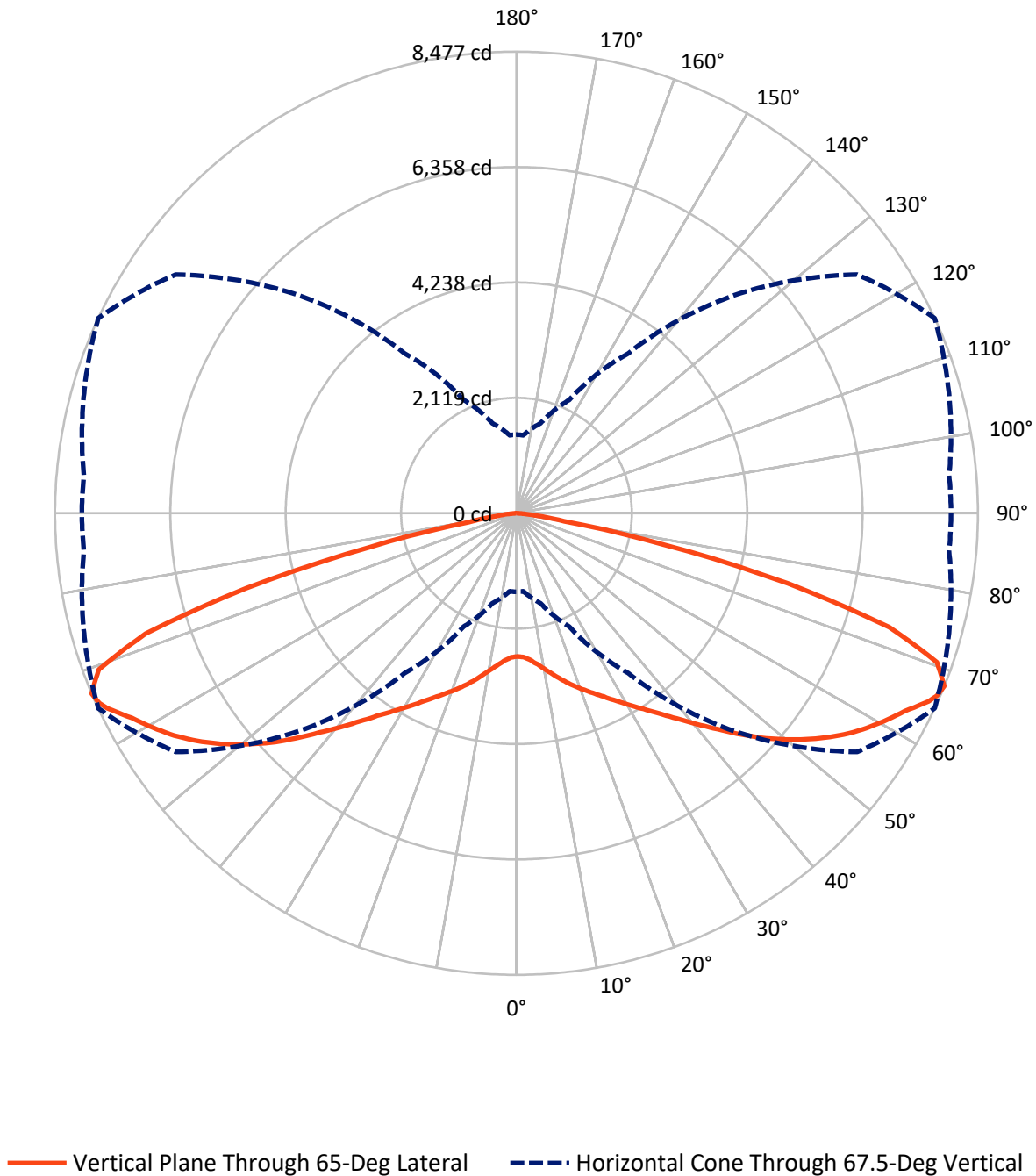


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

REPORT NUMBER: P453849

CATALOG NUMBER: GALN-SA4D-830-U-RW

Luminous Intensity Polar Plot



REPORT NUMBER: P453849

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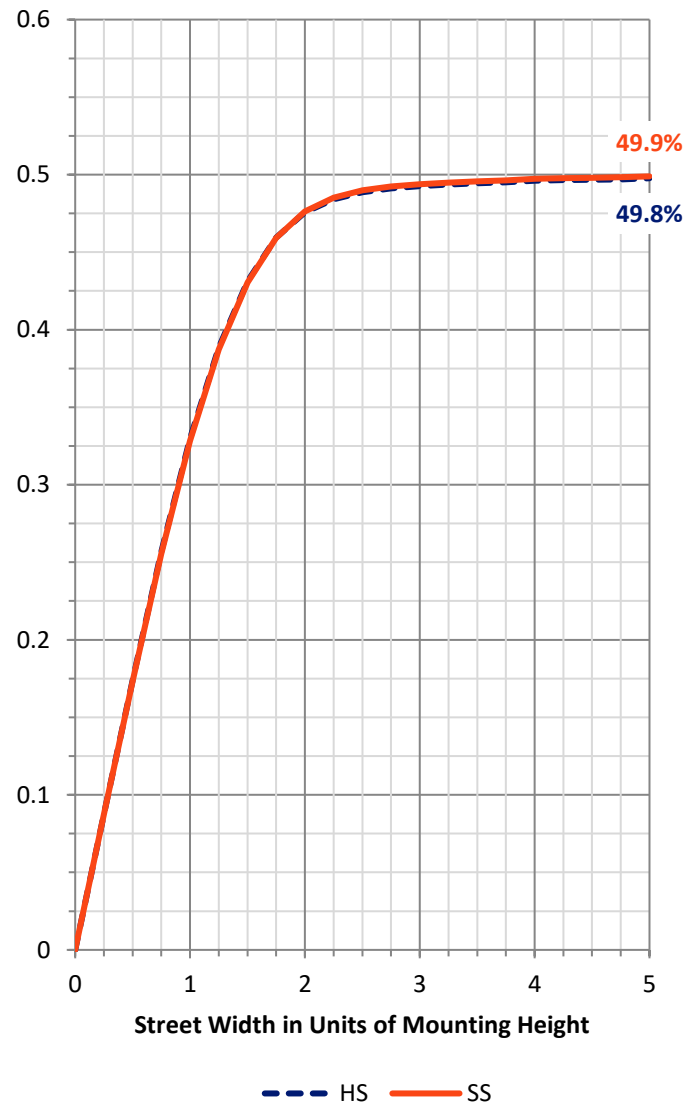
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12545.0	0.0	12545.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12545.0	0.0	12545.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25090.0	0.0	25090.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.2	1.0
10°-20°	867.5	3.5
20°-30°	1696.8	6.8
30°-40°	2886.1	11.5
40°-50°	4567.8	18.2
50°-60°	6056.9	24.1
60°-70°	5713.5	22.8
70°-80°	2824.5	11.3
80°-90°	217.7	0.9
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°	25090.0	100.0
0°-180°	25090.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453849

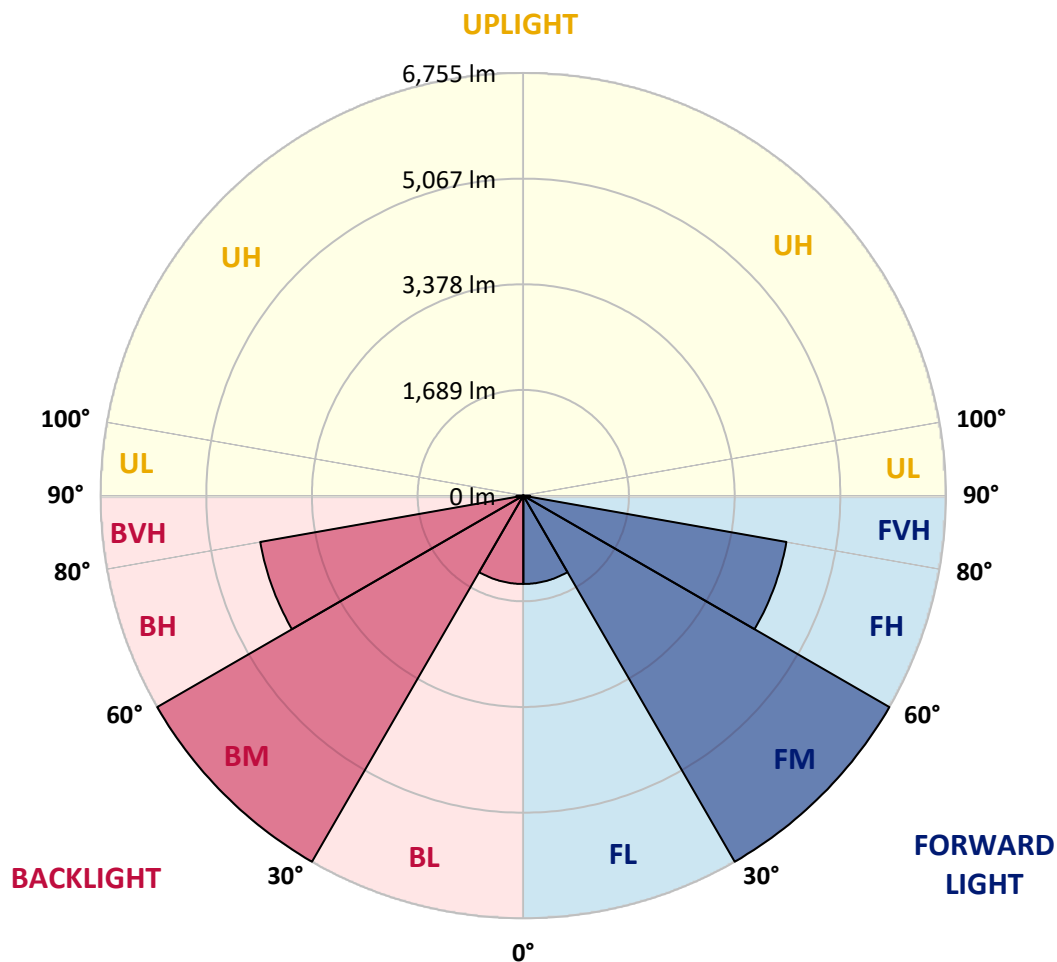
CATALOG NUMBER: GALN-SA4D-830-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1411.8	5.6			
FM	(30°-60°)	6755.4	26.9			
FH	(60°-80°)	4269.0	17.0			G2/5000
FVH	(80°-90°)	108.8	0.4			G2/225
BL	(0°-30°)	1411.8	5.6	B3/2500		
BM	(30°-60°)	6755.4	26.9	B4/8500		
BH	(60°-80°)	4269.0	17.0	B4/5000		G4/5000
BVH	(80°-90°)	108.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





REPORT NUMBER: P453849

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2628.0	2628.0	2628.0	2628.0	2628.0	2628.0	2628.0	2628.0	2628.0	2628.0	2628.0
2.5°	2614.5	2617.2	2619.9	2623.9	2629.3	2637.4	2642.7	2646.8	2657.5	2658.9	2657.5
5°	2605.1	2607.8	2614.5	2626.6	2644.1	2668.3	2687.1	2710.0	2727.4	2739.5	2736.8
7.5°	2603.8	2609.1	2619.9	2645.4	2679.0	2720.7	2763.7	2802.7	2836.3	2863.2	2859.2
10°	2625.3	2632.0	2649.5	2687.1	2739.5	2800.0	2860.5	2918.3	2966.7	3001.7	3013.7
12.5°	2661.6	2666.9	2699.2	2755.7	2830.9	2906.2	2974.8	3046.0	3113.2	3172.4	3172.4
15°	2724.7	2734.1	2774.5	2856.5	2949.2	3036.6	3106.5	3181.8	3254.4	3321.6	3341.7
17.5°	2812.1	2825.6	2886.0	2990.9	3109.2	3189.8	3255.7	3317.5	3380.7	3445.2	3454.7
20°	2931.8	2945.2	3025.8	3152.2	3292.0	3388.8	3433.1	3447.9	3478.8	3540.7	3548.7
22.5°	3094.4	3107.8	3197.9	3340.4	3496.3	3601.2	3620.0	3585.0	3577.0	3625.4	3630.7
25°	3278.6	3290.7	3394.2	3547.4	3708.7	3823.0	3817.6	3731.6	3683.2	3712.7	3720.8
27.5°	3485.6	3503.0	3607.9	3766.5	3941.3	4042.1	4025.9	3900.9	3797.4	3792.1	3794.7
30°	3750.4	3769.2	3868.7	4020.6	4192.6	4285.4	4251.8	4083.7	3923.8	3870.0	3870.0
32.5°	4030.0	4077.0	4177.8	4336.5	4470.9	4538.1	4487.0	4285.4	4073.0	3997.7	3993.7
35°	4394.3	4419.8	4519.3	4673.9	4774.7	4827.1	4729.0	4512.6	4267.9	4179.2	4167.1
37.5°	4750.5	4772.0	4887.6	5035.5	5157.8	5155.1	5022.0	4782.7	4509.9	4410.4	4402.3
40°	5114.8	5137.6	5269.4	5405.1	5527.4	5516.7	5355.4	5087.9	4797.5	4686.0	4707.5
42.5°	5430.7	5456.2	5605.4	5799.0	5909.2	5906.5	5719.7	5418.6	5116.1	5016.6	5035.5
45°	5718.3	5741.2	5914.6	6136.4	6297.7	6317.8	6113.5	5794.9	5484.4	5356.7	5362.1
47.5°	5921.3	5964.3	6145.8	6399.8	6619.0	6690.2	6489.9	6178.0	5820.5	5687.4	5695.5
50°	6075.9	6102.8	6300.4	6589.4	6866.3	7014.2	6852.8	6532.9	6156.5	6015.4	6034.2
52.5°	6094.7	6127.0	6342.0	6675.4	7030.3	7254.8	7175.5	6879.7	6499.3	6354.1	6394.5
55°	5941.5	5960.3	6217.0	6621.6	7094.8	7433.6	7453.7	7202.3	6826.0	6715.7	6742.6
57.5°	5504.6	5553.0	5878.3	6370.3	7006.1	7529.0	7662.1	7495.4	7156.6	7047.8	7090.8
60°	4788.1	4836.5	5163.2	5786.9	6671.4	7484.6	7834.1	7754.8	7456.4	7369.0	7391.9
62.5°	3751.7	3747.7	4152.3	4917.2	6006.0	7266.9	7961.8	8004.8	7752.1	7641.9	7676.9
65°	2431.7	2443.8	2835.0	3659.0	5001.9	6713.1	7990.1	8323.4	8042.5	7875.8	7901.3
66°	1955.8	1992.1	2324.2	3083.6	4489.7	6350.1	7905.4	8417.5	8131.2	7929.6	7941.7
67.5°	1443.7	1437.0	1709.9	2295.9	3585.0	5660.5	7640.6	8476.7	8232.0	7978.0	7983.3
70°	824.0	822.7	919.4	1260.9	2107.7	3985.6	6440.2	8193.0	8436.3	8152.7	8137.9
72.5°	602.2	598.2	611.6	696.3	1028.3	2012.3	4442.7	7160.7	8331.5	8124.5	8082.8
75°	505.4	502.7	500.1	510.8	576.7	911.4	2357.8	5151.1	7229.2	7625.8	7582.8
77.5°	412.7	412.7	414.0	411.3	414.0	479.9	977.3	2761.0	4402.3	4914.5	5034.1
80°	322.6	321.3	344.1	334.7	313.2	307.8	432.8	888.5	1461.2	1453.1	1199.0
82.5°	237.9	221.8	262.1	255.4	231.2	196.3	252.7	379.1	488.0	317.2	235.2
85°	150.6	149.2	185.5	169.4	141.1	92.8	121.0	162.7	201.6	122.3	99.5
87.5°	26.9	25.5	59.1	43.0	43.0	26.9	33.6	44.4	65.9	45.7	33.6
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)