

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: P457793

Luminaire Tested: **GALN-SA9A-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457793
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-SA9A-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33990 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 274
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

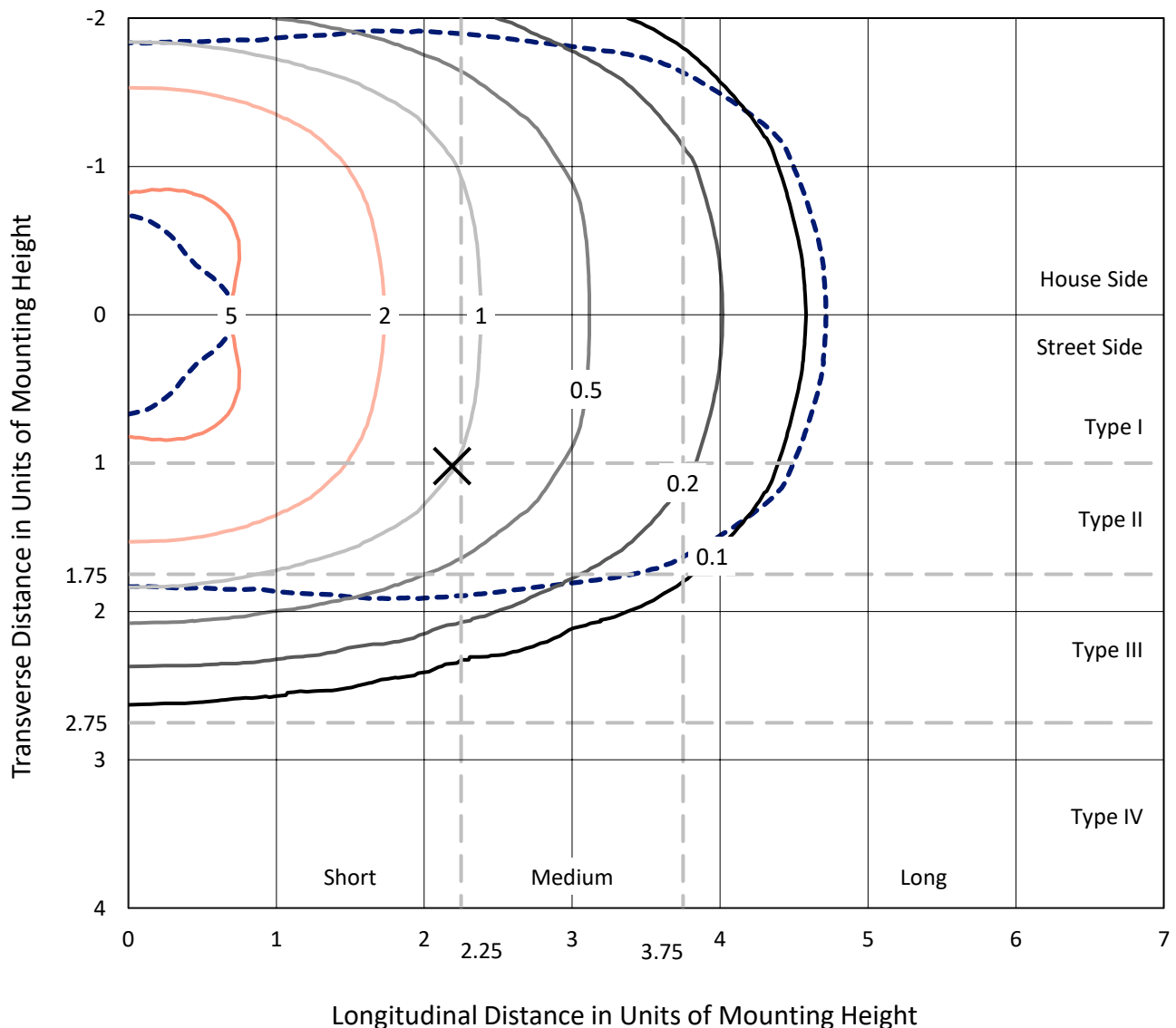


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

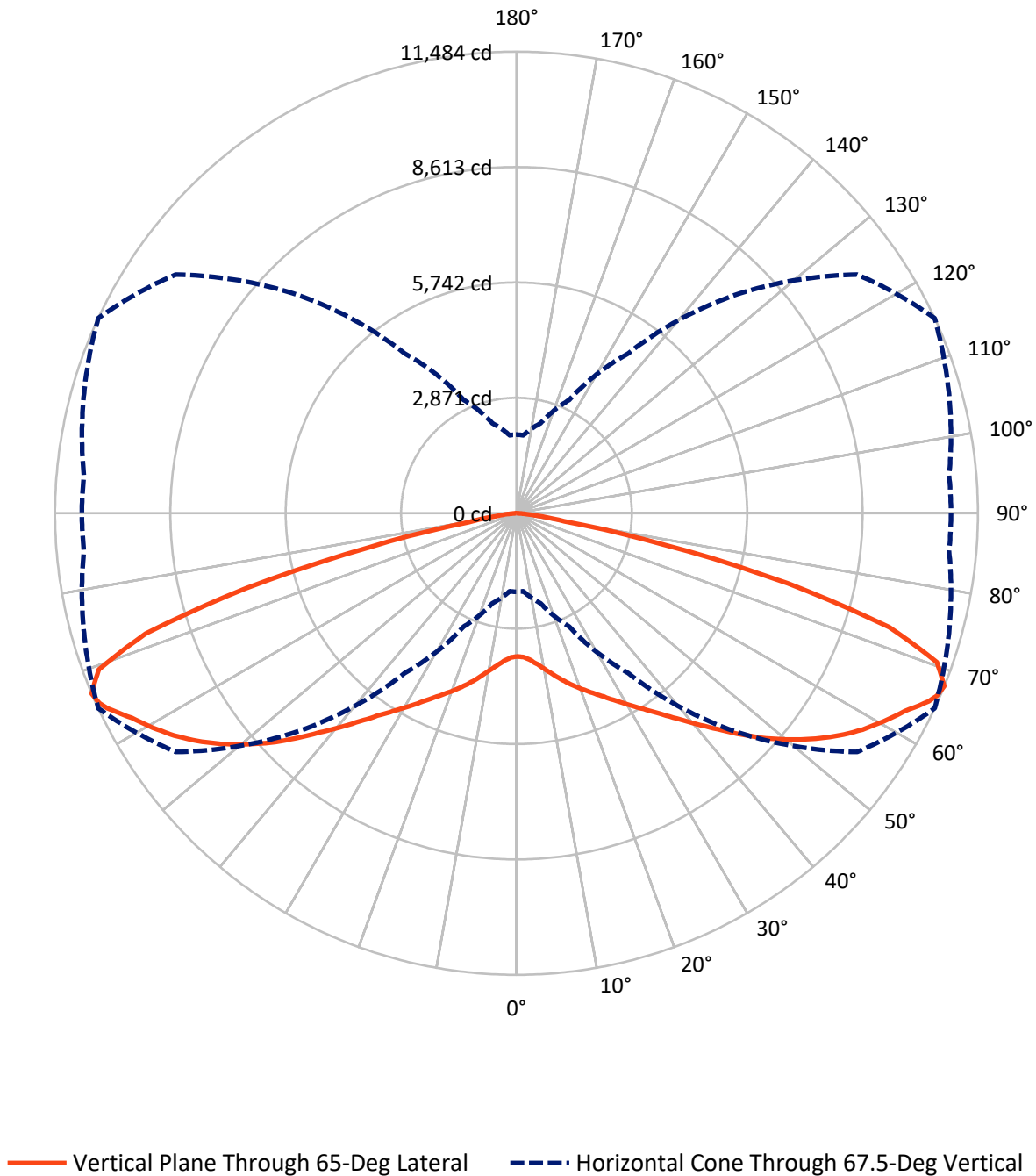


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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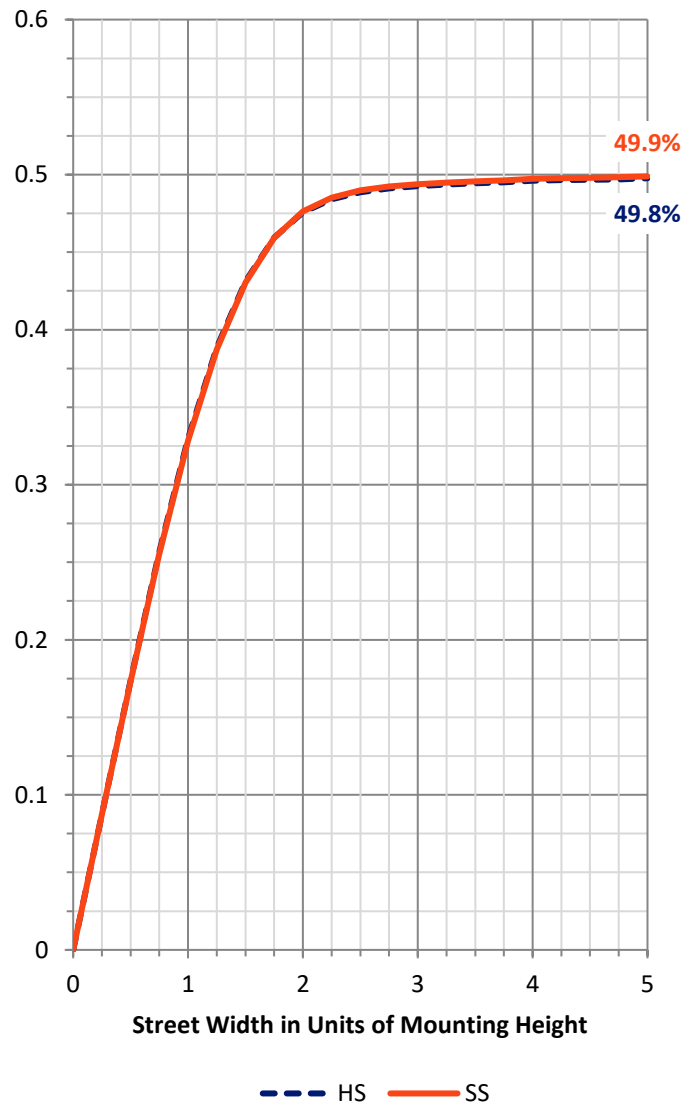
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16995.0	0.0	16995.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16995.0	0.0	16995.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33990.0	0.0	33990.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.1	1.0
10°-20°	1175.2	3.5
20°-30°	2298.8	6.8
30°-40°	3909.9	11.5
40°-50°	6188.2	18.2
50°-60°	8205.4	24.1
60°-70°	7740.2	22.8
70°-80°	3826.4	11.3
80°-90°	294.9	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°	33990.0	100.0
0°-180°	33990.0	100.0

Coefficient of Utilization



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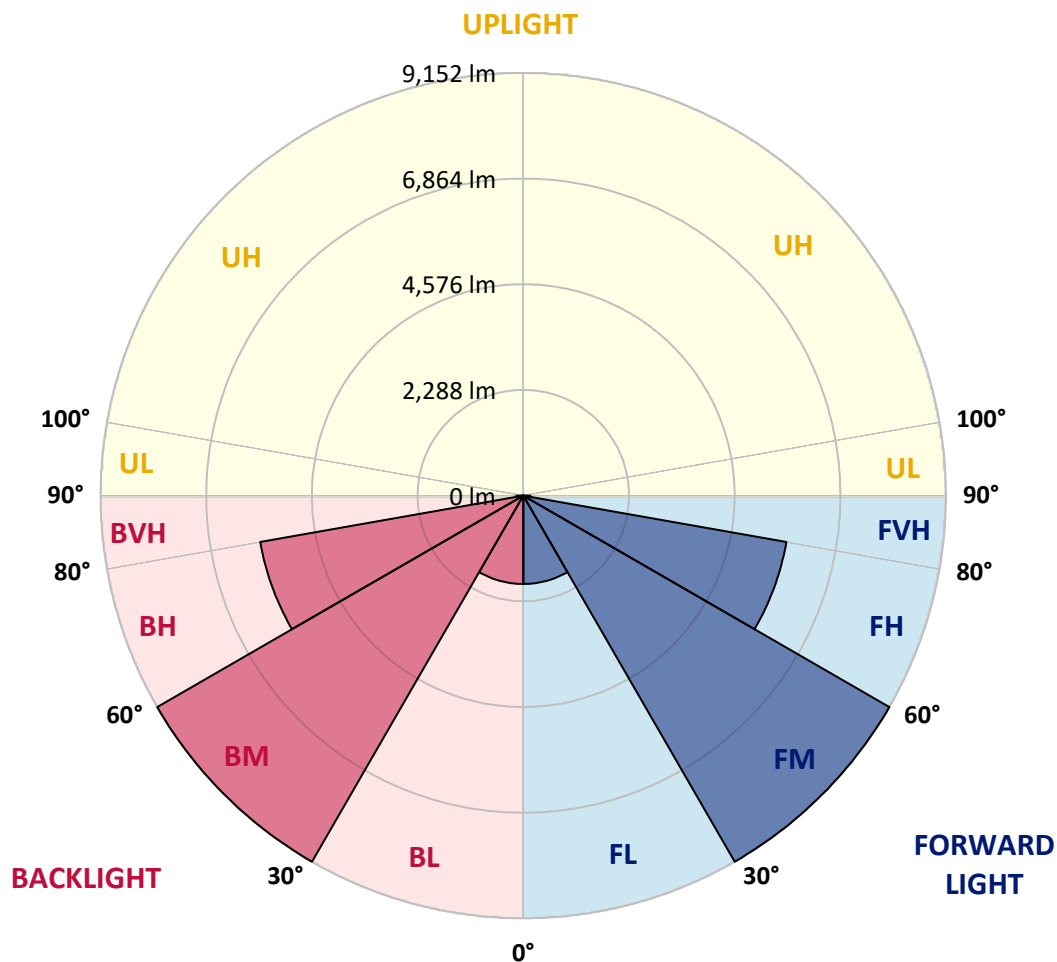
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1912.5	5.6			
FM	(30°-60°)	9151.7	26.9			
FH	(60°-80°)	5783.3	17.0			G3/7500
FVH	(80°-90°)	147.4	0.4			G2/225
BL	(0°-30°)	1912.5	5.6	B3/2500		
BM	(30°-60°)	9151.7	26.9	B5		
BH	(60°-80°)	5783.3	17.0	B5		G5
BVH	(80°-90°)	147.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3560.2	3560.2	3560.2	3560.2	3560.2	3560.2	3560.2	3560.2	3560.2	3560.2	3560.2
2.5°	3541.9	3545.6	3549.2	3554.7	3562.0	3572.9	3580.2	3585.6	3600.2	3602.0	3600.2
5°	3529.2	3532.8	3541.9	3558.3	3582.0	3614.8	3640.3	3671.2	3694.9	3711.3	3707.7
7.5°	3527.4	3534.7	3549.2	3583.8	3629.4	3685.8	3744.1	3796.9	3842.4	3878.8	3873.4
10°	3556.5	3565.6	3589.3	3640.3	3711.3	3793.2	3875.2	3953.5	4019.1	4066.4	4082.8
12.5°	3605.7	3613.0	3656.7	3733.2	3835.1	3937.1	4030.0	4126.5	4217.6	4297.7	4297.7
15°	3691.3	3704.0	3758.6	3869.7	3995.4	4113.8	4208.4	4310.4	4408.8	4499.8	4527.1
17.5°	3809.6	3827.8	3909.8	4051.8	4212.1	4321.4	4410.6	4494.4	4579.9	4667.4	4680.1
20°	3971.7	3989.9	4099.2	4270.4	4459.8	4590.9	4651.0	4671.0	4712.9	4796.6	4807.6
22.5°	4192.1	4210.3	4332.3	4525.3	4736.6	4878.6	4904.1	4856.7	4845.8	4911.4	4918.7
25°	4441.5	4457.9	4598.2	4805.8	5024.3	5179.1	5171.8	5055.2	4989.7	5029.7	5040.7
27.5°	4722.0	4745.7	4887.7	5102.6	5339.3	5475.9	5454.0	5284.7	5144.5	5137.2	5140.8
30°	5080.7	5106.2	5241.0	5446.8	5679.9	5805.5	5760.0	5532.3	5315.6	5242.8	5242.8
32.5°	5459.5	5523.2	5659.8	5874.7	6056.8	6147.9	6078.7	5805.5	5517.8	5415.8	5410.3
35°	5953.0	5987.6	6122.4	6331.8	6468.4	6539.4	6406.5	6113.3	5781.8	5661.6	5645.3
37.5°	6435.6	6464.7	6621.3	6821.7	6987.4	6983.7	6803.4	6479.3	6109.6	5974.9	5963.9
40°	6929.1	6960.1	7138.5	7322.4	7488.2	7473.6	7255.1	6892.7	6499.3	6348.2	6377.3
42.5°	7357.0	7391.6	7593.8	7856.0	8005.3	8001.7	7748.6	7340.7	6930.9	6796.2	6821.7
45°	7746.7	7777.7	8012.6	8313.1	8531.6	8558.9	8282.1	7850.5	7429.9	7256.9	7264.2
47.5°	8021.7	8080.0	8325.8	8670.0	8966.8	9063.4	8792.0	8369.5	7885.1	7704.9	7715.8
50°	8231.1	8267.6	8535.3	8926.8	9301.9	9502.2	9283.7	8850.3	8340.4	8149.2	8174.7
52.5°	8256.6	8300.3	8591.7	9043.3	9524.1	9828.2	9720.8	9320.1	8804.8	8608.1	8662.7
55°	8049.0	8074.5	8422.4	8970.5	9611.5	10070.4	10097.7	9757.2	9247.3	9098.0	9134.4
57.5°	7457.2	7522.8	7963.5	8630.0	9491.3	10199.7	10380.0	10154.2	9695.3	9547.8	9606.0
60°	6486.6	6552.1	6994.7	7839.6	9037.9	10139.6	10613.1	10505.6	10101.4	9983.0	10014.0
62.5°	5082.6	5077.1	5625.2	6661.4	8136.5	9844.6	10786.1	10844.4	10502.0	10352.7	10400.0
65°	3294.3	3310.7	3840.6	4956.9	6776.1	9094.3	10824.3	11275.9	10895.3	10669.5	10704.1
66°	2649.6	2698.8	3148.6	4177.5	6082.3	8602.6	10709.6	11403.4	11015.5	10742.4	10758.8
67.5°	1955.8	1946.7	2316.4	3110.4	4856.7	7668.4	10350.8	11483.5	11152.1	10807.9	10815.2
70°	1116.3	1114.5	1245.6	1708.1	2855.4	5399.4	8724.7	11099.3	11428.9	11044.7	11024.6
72.5°	815.8	810.4	828.6	943.3	1393.1	2726.1	6018.6	9700.7	11286.9	11006.4	10950.0
75°	684.7	681.1	677.4	692.0	781.2	1234.7	3194.1	6978.3	9793.6	10330.8	10272.5
77.5°	559.1	559.1	560.9	557.2	560.9	650.1	1323.9	3740.4	5963.9	6657.8	6819.8
80°	437.1	435.2	466.2	453.4	424.3	417.0	586.4	1203.7	1979.5	1968.6	1624.4
82.5°	322.3	300.5	355.1	346.0	313.2	265.9	342.4	513.5	661.0	429.8	318.7
85°	204.0	202.1	251.3	229.5	191.2	125.7	163.9	220.3	273.2	165.7	134.8
87.5°	36.4	34.6	80.1	58.3	58.3	36.4	45.5	60.1	89.2	61.9	45.5
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)