

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: P456169

Luminaire Tested: **GALN-SA7B-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456169
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-SA7B-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32494 lumens
Efficiency: N/A
Efficacy: 113.6 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): 286
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

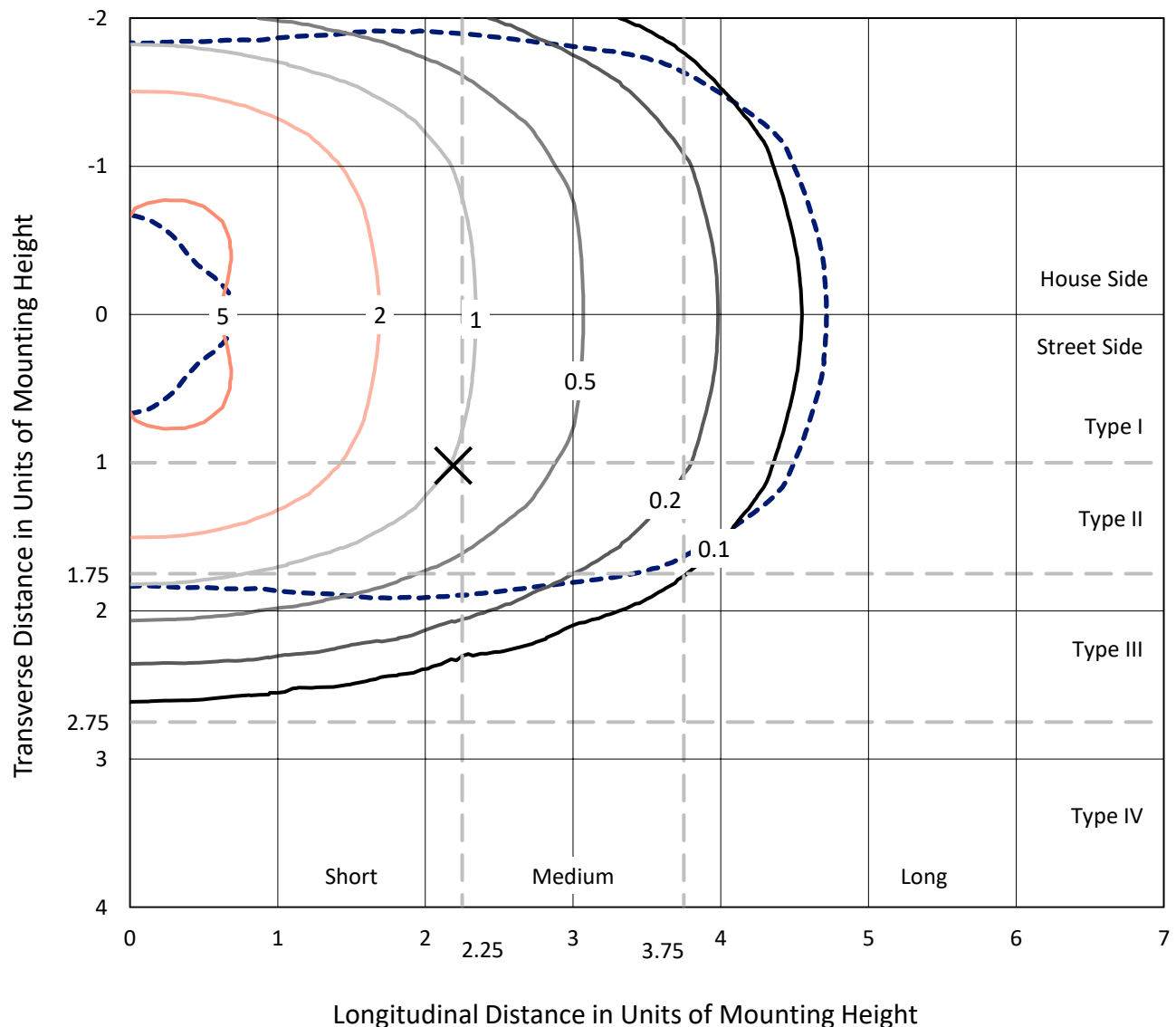


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

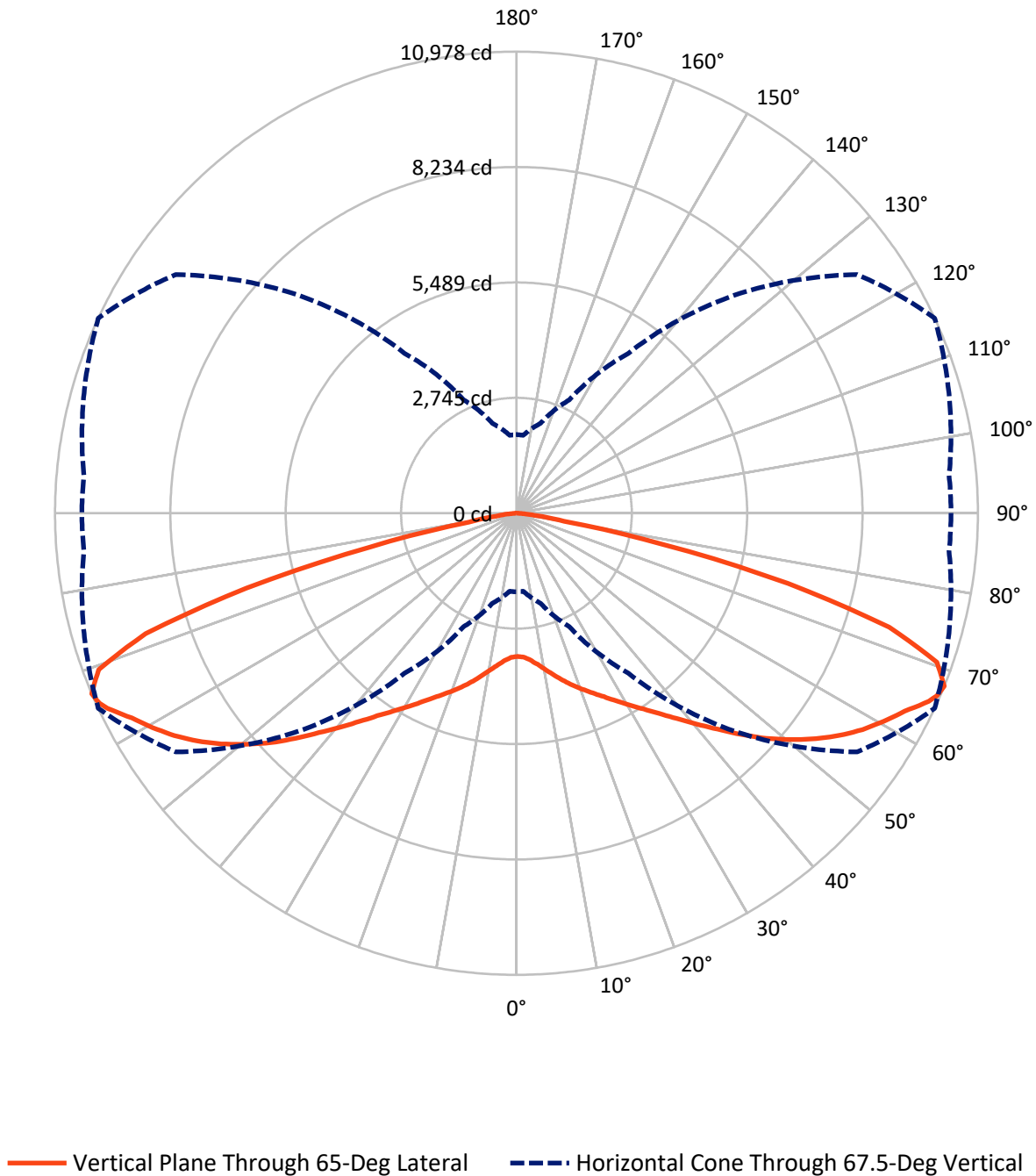


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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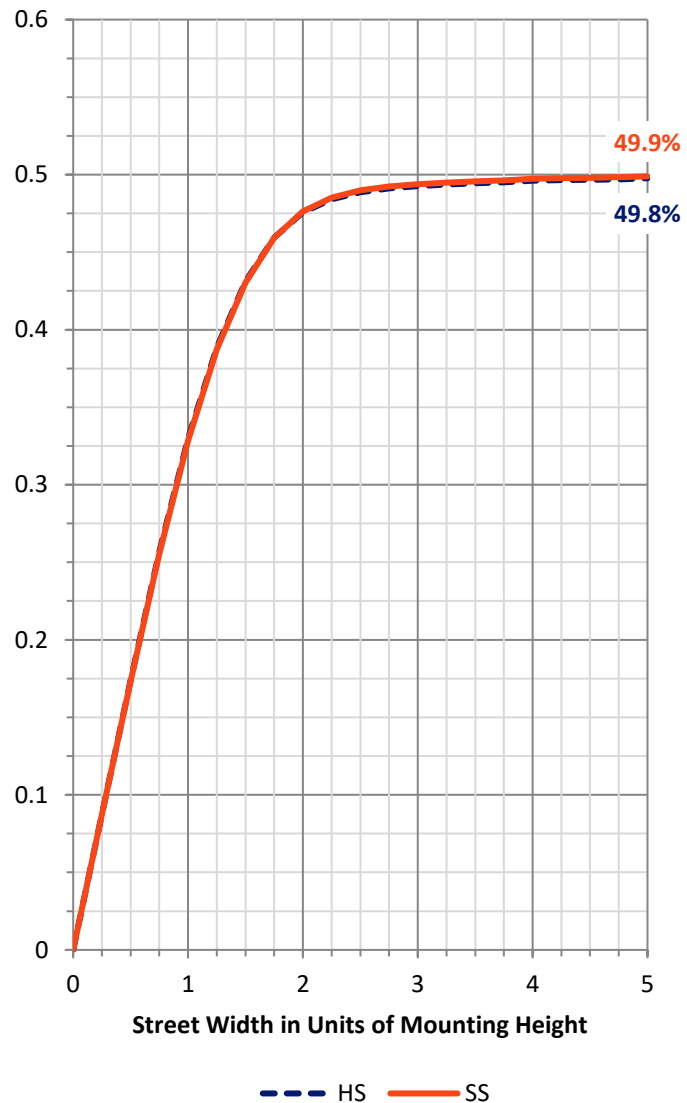
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16247.0	0.0	16247.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16247.0	0.0	16247.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32494.0	0.0	32494.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.7	1.0
10°-20°	1123.5	3.5
20°-30°	2197.6	6.8
30°-40°	3737.8	11.5
40°-50°	5915.8	18.2
50°-60°	7844.2	24.1
60°-70°	7399.5	22.8
70°-80°	3658.0	11.3
80°-90°	281.9	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°	32494.0	100.0
0°-180°	32494.0	100.0

Coefficient of Utilization



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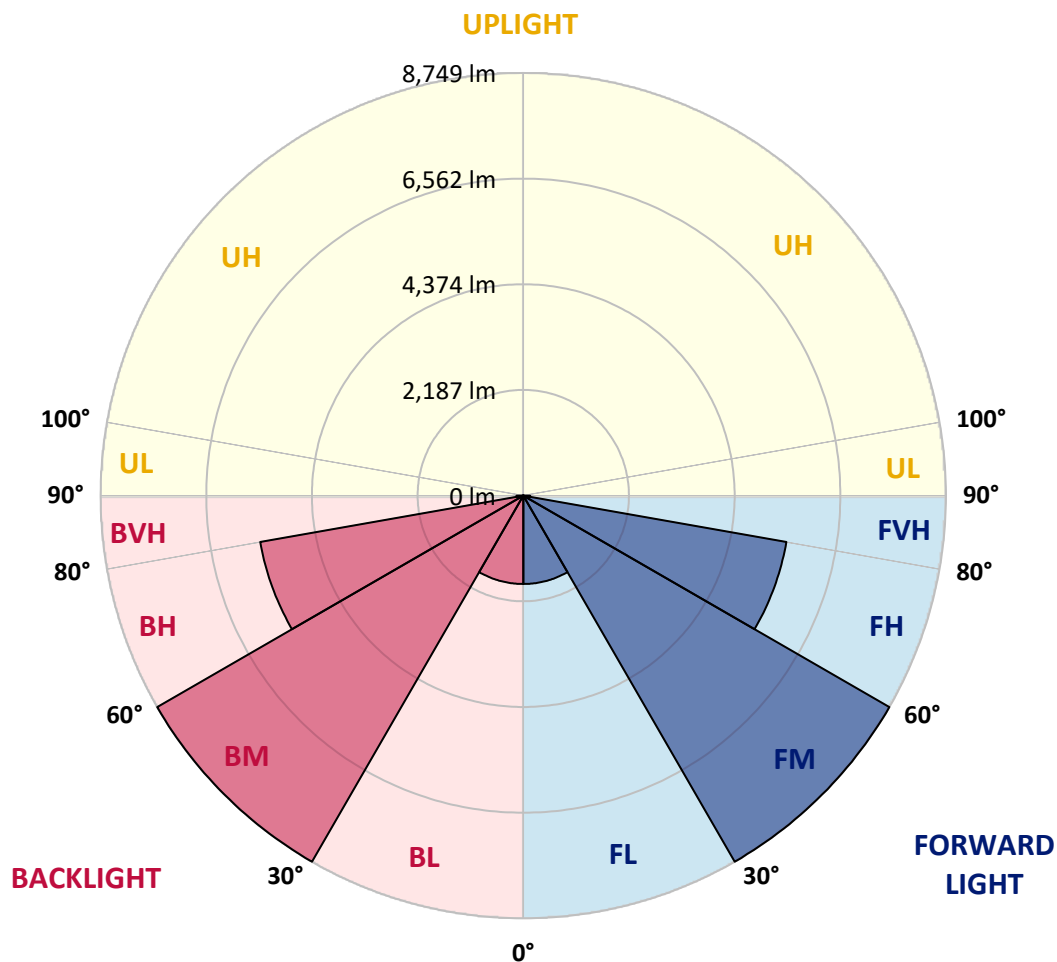
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1828.4	5.6			
FM	(30°-60°)	8748.9	26.9			
FH	(60°-80°)	5528.8	17.0			G3/7500
FVH	(80°-90°)	141.0	0.4			G2/225
BL	(0°-30°)	1828.4	5.6	B3/2500		
BM	(30°-60°)	8748.9	26.9	B5		
BH	(60°-80°)	5528.8	17.0	B5		G5
BVH	(80°-90°)	141.0	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°	3403.5	3403.5	3403.5	3403.5	3403.5	3403.5	3403.5	3403.5	3403.5	3403.5	3403.5
2.5°	3386.1	3389.5	3393.0	3398.2	3405.2	3415.6	3422.6	3427.8	3441.8	3443.5	3441.8
5°	3373.9	3377.3	3386.1	3401.7	3424.4	3455.7	3480.1	3509.7	3532.3	3548.0	3544.5
7.5°	3372.1	3379.1	3393.0	3426.1	3469.6	3523.6	3579.3	3629.8	3673.3	3708.1	3702.9
10°	3400.0	3408.7	3431.3	3480.1	3548.0	3626.3	3704.6	3779.5	3842.2	3887.4	3903.1
12.5°	3447.0	3453.9	3495.7	3568.8	3666.3	3763.8	3852.6	3944.9	4031.9	4108.5	4108.5
15°	3528.8	3541.0	3593.2	3699.4	3819.5	3932.7	4023.2	4120.7	4214.7	4301.8	4327.9
17.5°	3642.0	3659.4	3737.7	3873.5	4026.7	4131.2	4216.5	4296.5	4378.4	4461.9	4474.1
20°	3796.9	3814.3	3918.8	4082.4	4263.5	4388.8	4446.3	4465.4	4505.4	4585.5	4596.0
22.5°	4007.6	4025.0	4141.6	4326.1	4528.1	4663.9	4688.2	4643.0	4632.5	4695.2	4702.2
25°	4246.1	4261.7	4395.8	4594.2	4803.1	4951.1	4944.2	4832.7	4770.1	4808.4	4818.8
27.5°	4514.2	4536.8	4672.6	4878.0	5104.3	5234.9	5214.0	5052.1	4918.0	4911.1	4914.6
30°	4857.1	4881.5	5010.3	5207.0	5429.9	5550.0	5506.5	5288.9	5081.7	5012.1	5012.1
32.5°	5219.2	5280.2	5410.7	5616.1	5790.2	5877.3	5811.1	5550.0	5274.9	5177.4	5172.2
35°	5691.0	5724.1	5852.9	6053.1	6183.7	6251.6	6124.5	5844.2	5527.4	5412.5	5396.8
37.5°	6152.3	6180.2	6329.9	6521.4	6679.8	6676.4	6504.0	6194.1	5840.7	5711.9	5701.4
40°	6624.1	6653.7	6824.3	7000.2	7158.6	7144.7	6935.7	6589.3	6213.3	6068.8	6096.6
42.5°	7033.2	7066.3	7259.6	7510.2	7653.0	7649.5	7407.5	7017.6	6625.9	6497.0	6521.4
45°	7405.8	7435.4	7660.0	7947.2	8156.1	8182.2	7917.6	7505.0	7102.9	6937.5	6944.5
47.5°	7668.7	7724.4	7959.4	8288.4	8572.2	8664.5	8405.1	8001.2	7538.1	7365.7	7376.2
50°	7868.9	7903.7	8159.6	8533.9	8892.5	9084.0	8875.1	8460.8	7973.3	7790.5	7814.9
52.5°	7893.2	7935.0	8213.6	8645.3	9104.9	9395.6	9292.9	8909.9	8417.3	8229.2	8281.5
55°	7694.8	7719.2	8051.7	8575.7	9188.5	9627.2	9653.3	9327.7	8840.3	8697.5	8732.4
57.5°	7129.0	7191.7	7613.0	8250.1	9073.6	9750.8	9923.1	9707.3	9268.6	9127.5	9183.2
60°	6201.1	6263.8	6686.8	7494.6	8640.1	9693.3	10146.0	10043.3	9656.8	9543.6	9573.2
62.5°	4858.9	4853.6	5377.6	6368.2	7778.3	9411.3	10311.4	10367.1	10039.8	9897.0	9942.3
65°	3149.3	3165.0	3671.6	4738.7	6477.9	8694.1	10347.9	10779.7	10415.8	10199.9	10233.0
66°	2533.0	2580.0	3010.0	3993.6	5814.6	8224.0	10238.2	10901.5	10530.7	10269.6	10285.2
67.5°	1869.7	1861.0	2214.4	2973.5	4643.0	7330.9	9895.3	10978.1	10661.3	10332.2	10339.2
70°	1067.2	1065.4	1190.8	1633.0	2729.7	5161.8	8340.7	10610.8	10925.9	10558.6	10539.4
72.5°	779.9	774.7	792.1	901.8	1331.8	2606.1	5753.7	9273.8	10790.1	10522.0	10468.0
75°	654.6	651.1	647.6	661.5	746.8	1180.3	3053.5	6671.1	9362.6	9876.1	9820.4
77.5°	534.5	534.5	536.2	532.7	536.2	621.5	1265.6	3575.8	5701.4	6364.7	6519.7
80°	417.8	416.1	445.7	433.5	405.6	398.7	560.6	1150.7	1892.4	1881.9	1552.9
82.5°	308.1	287.2	339.5	330.8	299.4	254.2	327.3	490.9	631.9	410.9	304.7
85°	195.0	193.2	240.2	219.4	182.8	120.1	156.7	210.6	261.1	158.4	128.8
87.5°	34.8	33.1	76.6	55.7	55.7	34.8	43.5	57.4	85.3	59.2	43.5
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)