

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: STREETWORKS

Report Number: P317232

Luminaire Tested: **GAN-SA8A-827-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28065 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 257
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

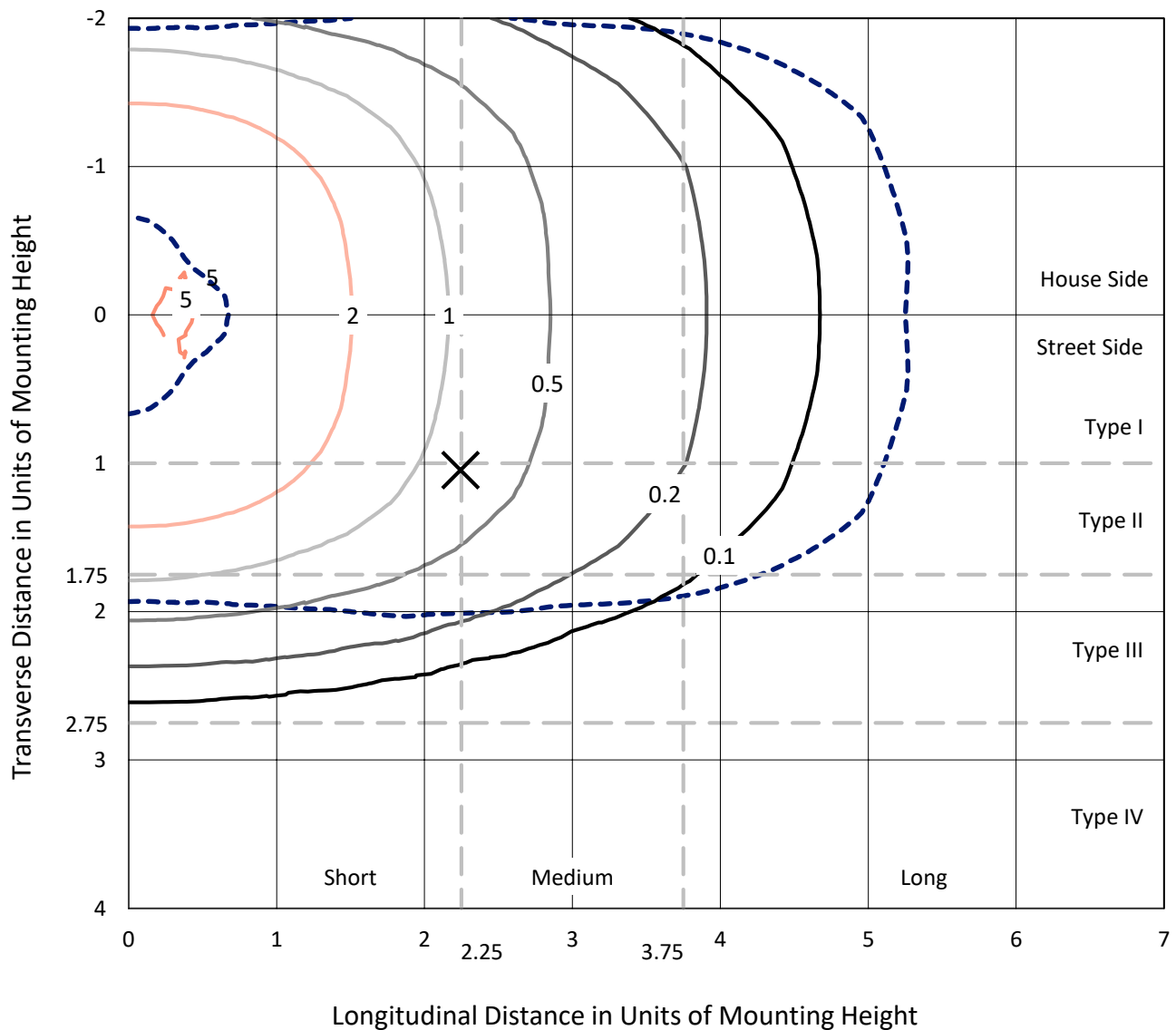


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Iso-Footcandle Lines of Horizontal Illumination

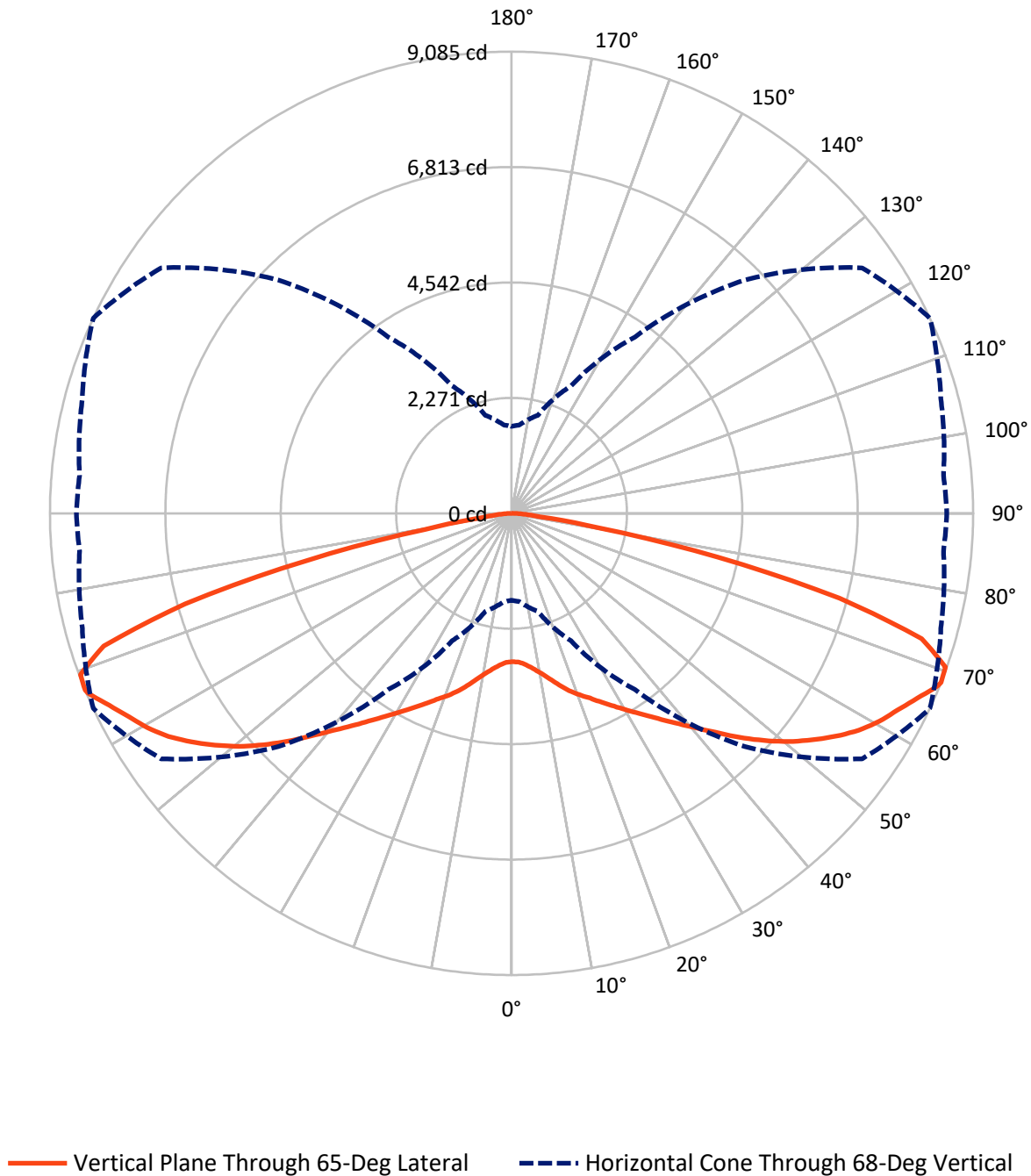
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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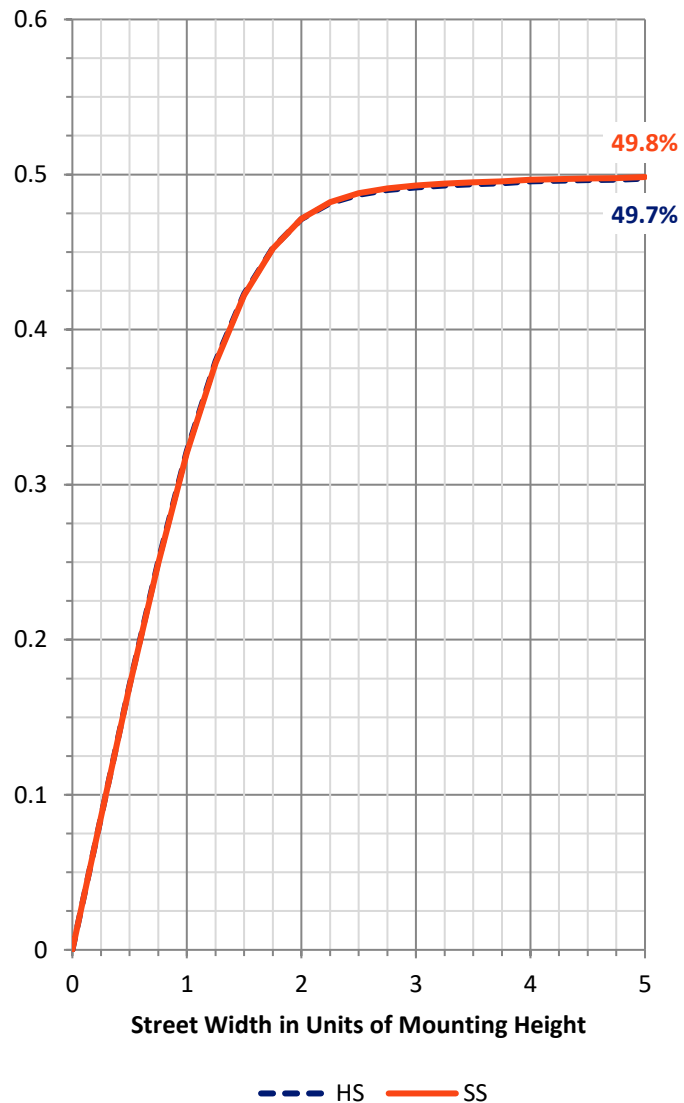
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14032.5	0.0	14032.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14032.5	0.0	14032.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28065.0	0.0	28065.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.7	1.0
10°-20°	956.6	3.4
20°-30°	1865.2	6.6
30°-40°	3133.4	11.2
40°-50°	4937.2	17.6
50°-60°	6602.6	23.5
60°-70°	6418.6	22.9
70°-80°	3508.7	12.5
80°-90°	356.8	1.3
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°	28065.0	100.0
0°-180°	28065.0	100.0

Coefficient of Utilization



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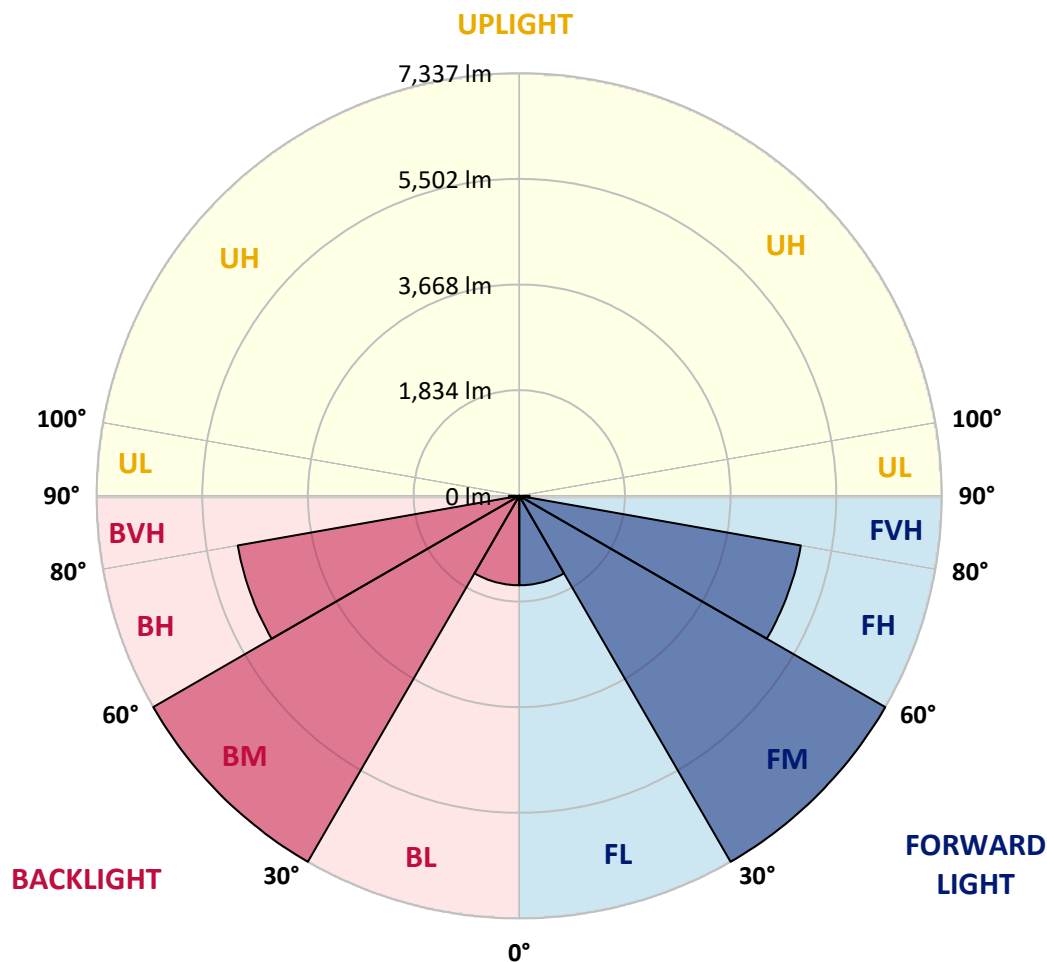
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1553.8	5.5			
FM	(30°-60°)	7336.6	26.1			
FH	(60°-80°)	4963.7	17.7			G2/5000
FVH	(80°-90°)	178.4	0.6			G2/225
BL	(0°-30°)	1553.8	5.5	B3/2500		
BM	(30°-60°)	7336.6	26.1	B4/8500		
BH	(60°-80°)	4963.7	17.7	B4/5000		G4/5000
BVH	(80°-90°)	178.4	0.6			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2918.1	2918.1	2918.1	2918.1	2918.1	2918.1	2918.1	2918.1	2918.1	2918.1	2918.1
2.5°	2897.4	2898.3	2903.0	2908.7	2913.4	2925.6	2928.5	2933.2	2935.0	2939.7	2939.7
5°	2872.0	2873.9	2885.2	2900.2	2917.2	2947.3	2968.9	2993.4	3005.6	3018.8	3017.8
7.5°	2869.2	2873.9	2889.9	2914.3	2942.6	2992.4	3037.6	3086.5	3119.5	3149.6	3147.7
10°	2898.3	2905.9	2928.5	2965.2	3007.5	3069.6	3136.4	3202.3	3259.7	3305.8	3307.7
12.5°	2942.6	2952.0	2987.7	3043.3	3107.2	3187.2	3266.3	3340.6	3419.7	3488.4	3494.0
15°	3000.9	3013.1	3066.8	3149.6	3247.5	3342.5	3427.2	3503.4	3594.7	3689.7	3699.1
17.5°	3087.5	3104.4	3175.0	3287.0	3415.9	3520.4	3608.8	3666.2	3742.4	3840.3	3858.2
20°	3219.2	3240.9	3330.3	3463.9	3621.0	3730.2	3798.0	3810.2	3847.8	3935.3	3956.0
22.5°	3390.5	3409.3	3509.1	3668.1	3844.1	3962.6	3998.4	3949.5	3945.7	4016.3	4036.0
25°	3581.5	3598.5	3714.2	3893.0	4082.1	4212.9	4212.0	4117.0	4051.1	4105.7	4126.4
27.5°	3796.1	3822.4	3933.5	4121.7	4324.0	4452.9	4445.4	4298.6	4173.4	4187.5	4205.4
30°	4042.6	4071.8	4180.0	4371.0	4573.4	4699.4	4690.0	4496.2	4308.0	4270.3	4283.5
32.5°	4348.4	4383.3	4485.8	4674.0	4852.8	4966.7	4939.4	4710.7	4469.8	4388.0	4400.2
35°	4716.4	4737.1	4845.3	5030.7	5175.6	5253.7	5196.3	4959.2	4675.0	4576.2	4576.2
37.5°	5089.0	5105.0	5226.4	5406.2	5546.4	5587.8	5475.8	5231.1	4943.2	4803.0	4805.8
40°	5446.6	5489.9	5626.4	5810.8	5949.1	5960.4	5811.7	5541.7	5241.5	5096.6	5113.5
42.5°	5820.2	5862.5	6025.3	6234.3	6356.6	6375.4	6201.3	5889.8	5578.4	5460.7	5479.6
45°	6153.3	6187.2	6375.4	6618.2	6770.6	6819.6	6613.5	6288.8	5942.5	5827.7	5832.4
47.5°	6385.8	6430.0	6637.0	6923.1	7145.2	7220.4	7018.1	6677.5	6301.1	6161.8	6174.0
50°	6596.5	6620.1	6829.9	7142.3	7424.6	7579.9	7406.8	7061.4	6663.4	6515.6	6528.8
52.5°	6714.2	6744.3	6947.5	7273.1	7607.2	7857.5	7752.1	7406.8	7013.4	6869.4	6885.4
55°	6632.3	6654.9	6898.6	7302.3	7720.1	8028.8	8044.8	7744.6	7356.9	7230.8	7276.0
57.5°	6259.7	6287.9	6585.3	7114.1	7734.2	8144.5	8265.0	8057.9	7677.8	7575.2	7601.6
60°	5677.2	5695.0	6012.2	6606.9	7459.5	8192.5	8405.2	8313.9	7992.1	7889.5	7925.3
62.5°	4639.2	4665.6	5044.8	5841.8	6878.8	8050.4	8540.7	8525.6	8284.7	8190.6	8222.6
65°	3171.2	3217.3	3637.0	4644.9	5983.9	7615.7	8664.0	8772.2	8543.5	8424.9	8467.3
67.5°	1915.0	1948.9	2252.8	3066.8	4579.0	6738.6	8536.9	9052.6	8726.1	8535.0	8569.9
68°	1711.7	1742.8	1996.8	2767.5	4235.5	6491.1	8421.2	9084.6	8745.8	8533.2	8564.2
70°	1034.2	1054.9	1225.2	1710.8	2824.0	5149.3	7631.7	9058.2	8871.9	8559.5	8577.4
72.5°	673.8	680.4	708.6	878.0	1442.6	2879.5	5728.0	8440.9	9061.1	8712.9	8710.1
75°	559.9	556.1	559.0	578.7	711.4	1262.8	3347.2	6668.1	8637.6	8471.1	8411.8
77.5°	473.3	470.5	469.6	470.5	476.2	609.8	1452.9	4153.7	6609.7	7493.3	7546.0
80°	383.0	379.2	391.5	385.8	368.9	379.2	608.8	1727.7	3115.7	3351.9	3141.1
82.5°	278.5	264.4	317.1	302.1	288.0	267.2	335.9	558.0	743.4	510.0	358.5
85°	214.6	199.5	240.9	231.5	197.6	136.4	199.5	272.9	301.1	172.2	135.5
87.5°	87.5	92.2	174.1	137.4	115.7	65.9	81.9	109.2	146.8	73.4	56.5
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)