

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: P457097

Luminaire Tested: **GALN-SA8B-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457097
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-SA8B-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 37671 lumens
Efficiency: N/A
Efficacy: 115.9 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): 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

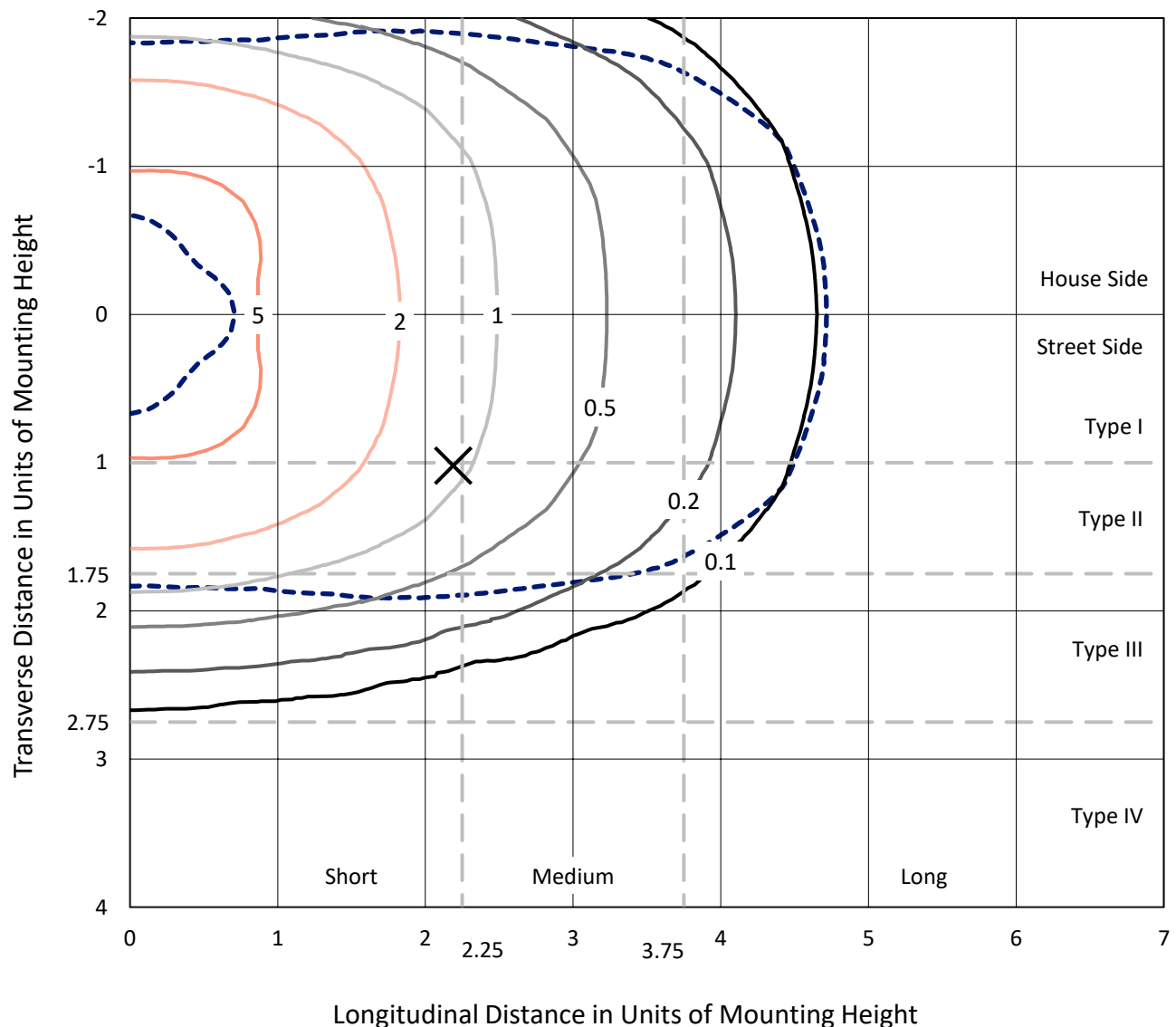


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

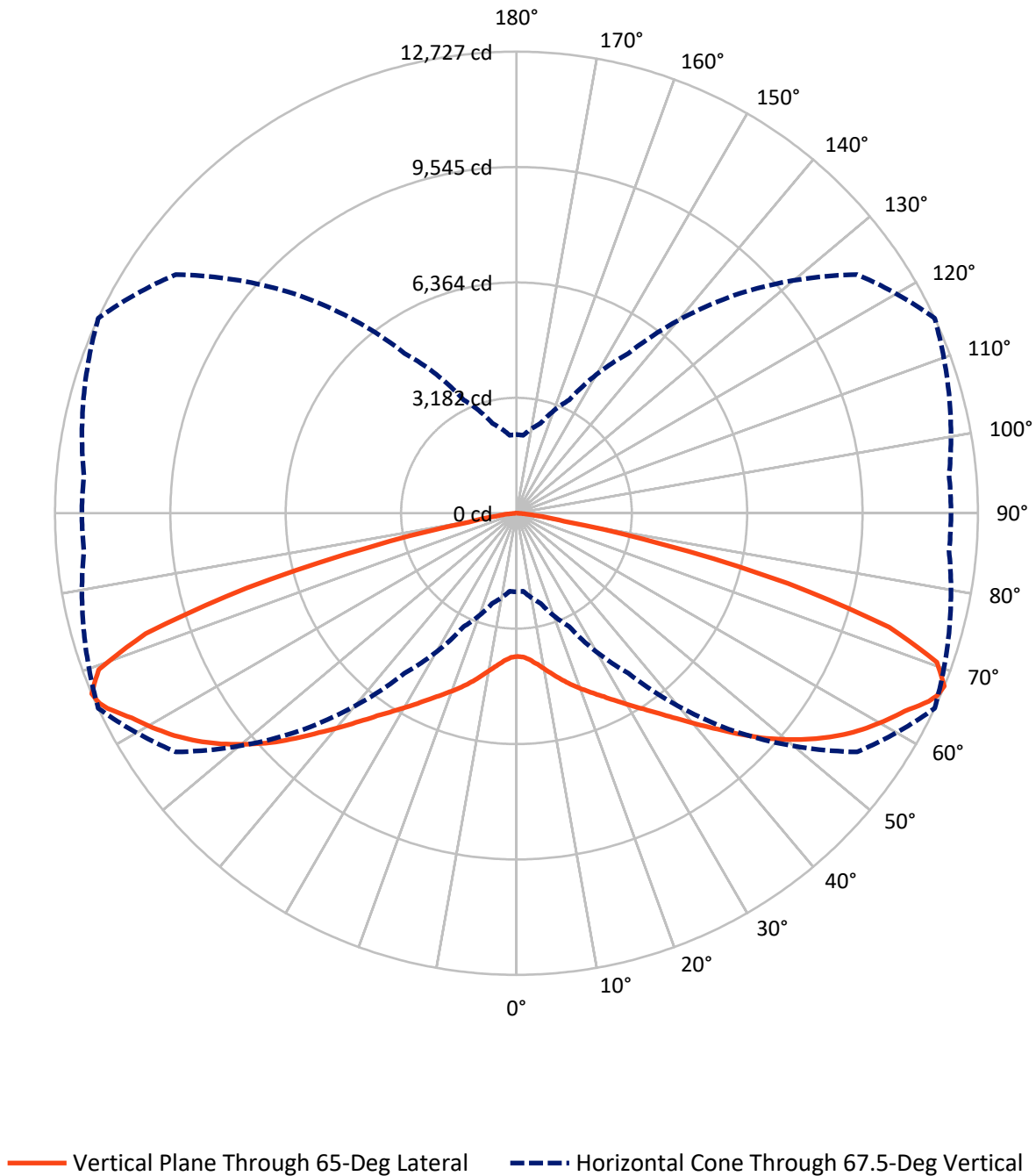


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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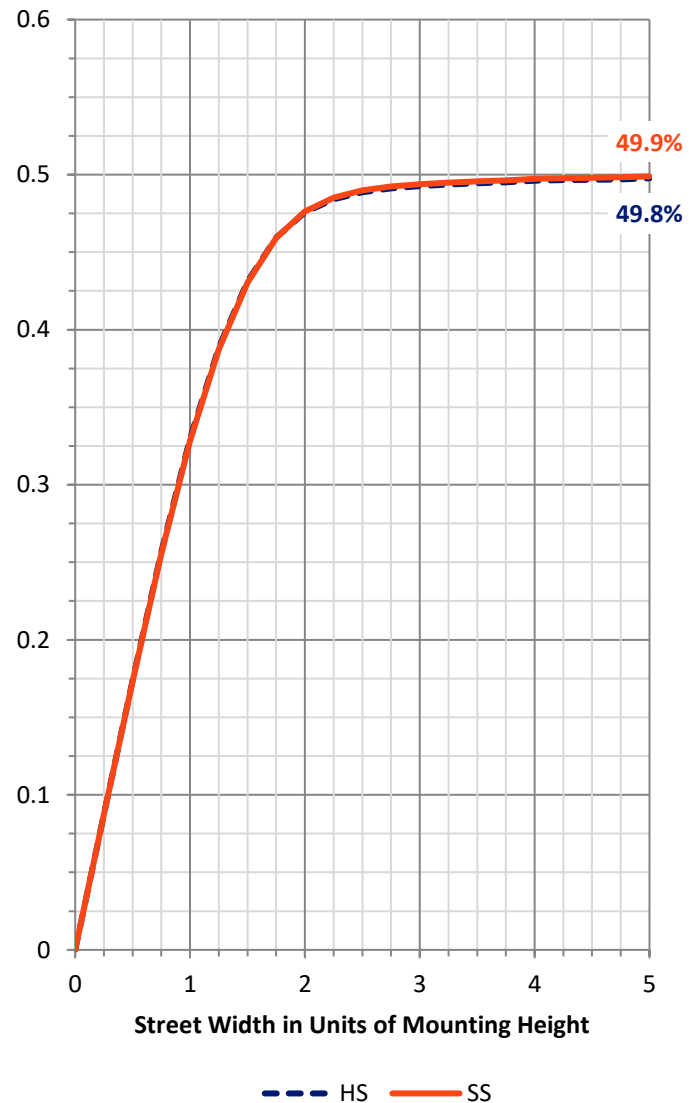
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18835.5	0.0	18835.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18835.5	0.0	18835.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	37671.0	0.0	37671.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.2	1.0
10°-20°	1302.5	3.5
20°-30°	2547.7	6.8
30°-40°	4333.3	11.5
40°-50°	6858.3	18.2
50°-60°	9094.0	24.1
60°-70°	8578.4	22.8
70°-80°	4240.8	11.3
80°-90°	326.8	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°	37671.0	100.0
0°-180°	37671.0	100.0

Coefficient of Utilization



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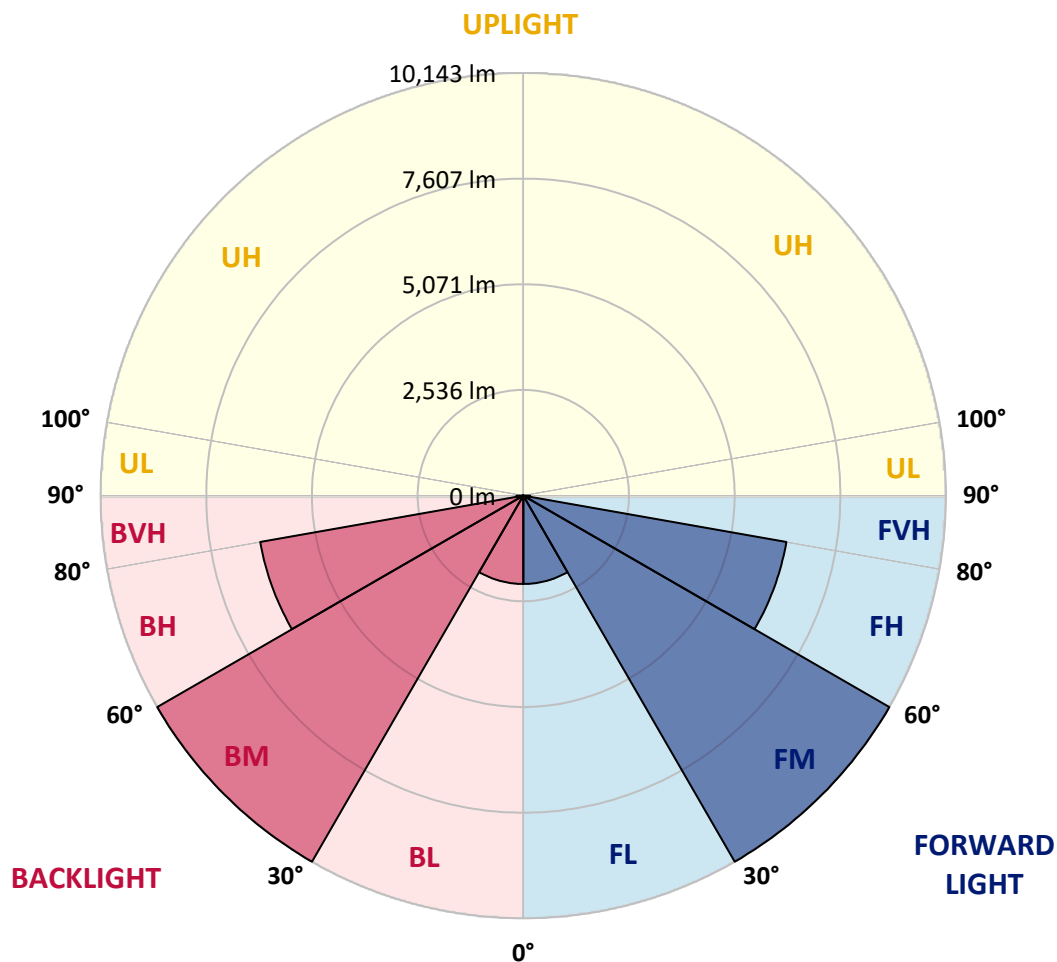
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2119.7	5.6			
FM	(30°-60°)	10142.8	26.9			
FH	(60°-80°)	6409.6	17.0			G3/7500
FVH	(80°-90°)	163.4	0.4			G2/225
BL	(0°-30°)	2119.7	5.6	B3/2500		
BM	(30°-60°)	10142.8	26.9	B5		
BH	(60°-80°)	6409.6	17.0	B5		G5
BVH	(80°-90°)	163.4	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°	3945.7	3945.7	3945.7	3945.7	3945.7	3945.7	3945.7	3945.7	3945.7	3945.7	3945.7
2.5°	3925.5	3929.6	3933.6	3939.7	3947.7	3959.8	3967.9	3974.0	3990.1	3992.1	3990.1
5°	3911.4	3915.4	3925.5	3943.7	3969.9	4006.3	4034.5	4068.8	4095.1	4113.2	4109.2
7.5°	3909.4	3917.4	3933.6	3971.9	4022.4	4085.0	4149.5	4208.1	4258.5	4298.9	4292.8
10°	3941.7	3951.8	3978.0	4034.5	4113.2	4204.0	4294.9	4381.6	4454.3	4506.8	4524.9
12.5°	3996.2	4004.2	4052.7	4137.4	4250.5	4363.5	4466.4	4573.4	4674.3	4763.1	4763.1
15°	4091.0	4105.1	4165.7	4288.8	4428.1	4559.3	4664.2	4777.2	4886.2	4987.1	5017.4
17.5°	4222.2	4242.4	4333.2	4490.6	4668.2	4789.3	4888.2	4981.1	5075.9	5172.8	5186.9
20°	4401.8	4422.0	4543.1	4732.8	4942.7	5088.0	5154.6	5176.8	5223.3	5316.1	5328.2
22.5°	4646.0	4666.2	4801.4	5015.4	5249.5	5406.9	5435.2	5382.7	5370.6	5443.3	5451.3
25°	4922.5	4940.7	5096.1	5326.2	5568.4	5739.9	5731.9	5602.7	5530.0	5574.4	5586.6
27.5°	5233.4	5259.6	5417.0	5655.2	5917.5	6068.9	6044.7	5857.0	5701.6	5693.5	5697.6
30°	5631.0	5659.2	5808.6	6036.6	6295.0	6434.2	6383.8	6131.5	5891.3	5810.6	5810.6
32.5°	6050.8	6121.4	6272.8	6510.9	6712.7	6813.7	6737.0	6434.2	6115.3	6002.3	5996.3
35°	6597.7	6636.1	6785.4	7017.5	7168.9	7247.6	7100.3	6775.3	6408.0	6274.8	6256.6
37.5°	7132.5	7164.8	7338.4	7560.4	7744.1	7740.0	7540.2	7181.0	6771.3	6621.9	6609.8
40°	7679.5	7713.8	7911.6	8115.4	8299.1	8283.0	8040.8	7639.1	7203.2	7035.7	7068.0
42.5°	8153.8	8192.1	8416.2	8706.8	8872.3	8868.2	8587.7	8135.6	7681.5	7532.2	7560.4
45°	8585.7	8620.0	8880.4	9213.4	9455.6	9485.8	9179.1	8700.7	8234.5	8042.8	8050.9
47.5°	8890.5	8955.0	9227.5	9609.0	9937.9	10044.9	9744.2	9275.9	8739.1	8539.3	8551.4
50°	9122.6	9162.9	9459.6	9893.5	10309.3	10531.3	10289.1	9808.8	9243.6	9031.7	9060.0
52.5°	9150.8	9199.2	9522.2	10022.7	10555.5	10892.6	10773.5	10329.5	9758.3	9540.3	9600.9
55°	8920.7	8949.0	9334.5	9942.0	10652.4	11161.0	11191.3	10813.9	10248.7	10083.2	10123.6
57.5°	8264.8	8337.4	8825.9	9564.6	10519.2	11304.3	11504.1	11253.8	10745.2	10581.8	10646.3
60°	7189.1	7261.7	7752.1	8688.6	10016.6	11237.7	11762.4	11643.4	11195.3	11064.1	11098.4
62.5°	5633.0	5626.9	6234.4	7382.8	9017.6	10910.7	11954.2	12018.8	11639.3	11473.8	11526.3
65°	3651.0	3669.2	4256.5	5493.7	7510.0	10079.2	11996.6	12497.1	12075.3	11825.0	11863.4
66°	2936.6	2991.1	3489.6	4629.9	6741.0	9534.3	11869.4	12638.4	12208.5	11905.7	11923.9
67.5°	2167.6	2157.5	2567.2	3447.2	5382.7	8498.9	11471.8	12727.2	12359.8	11978.4	11986.5
70°	1237.2	1235.2	1380.5	1893.1	3164.6	5984.2	9669.5	12301.3	12666.6	12240.8	12218.6
72.5°	904.2	898.1	918.3	1045.5	1544.0	3021.3	6670.4	10751.3	12509.2	12198.4	12135.8
75°	758.9	754.8	750.8	766.9	865.8	1368.4	3540.0	7734.0	10854.2	11449.6	11385.0
77.5°	619.6	619.6	621.6	617.6	621.6	720.5	1467.3	4145.5	6609.8	7378.8	7558.4
80°	484.4	482.4	516.7	502.5	470.3	462.2	649.9	1334.1	2193.9	2181.7	1800.3
82.5°	357.2	333.0	393.6	383.5	347.1	294.7	379.4	569.2	732.6	476.3	353.2
85°	226.0	224.0	278.5	254.3	211.9	139.3	181.6	244.2	302.7	183.7	149.4
87.5°	40.4	38.3	88.8	64.6	64.6	40.4	50.5	66.6	98.9	68.6	50.5
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)