

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: P456861

Luminaire Tested: **GALN-SA8A-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30625 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): 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

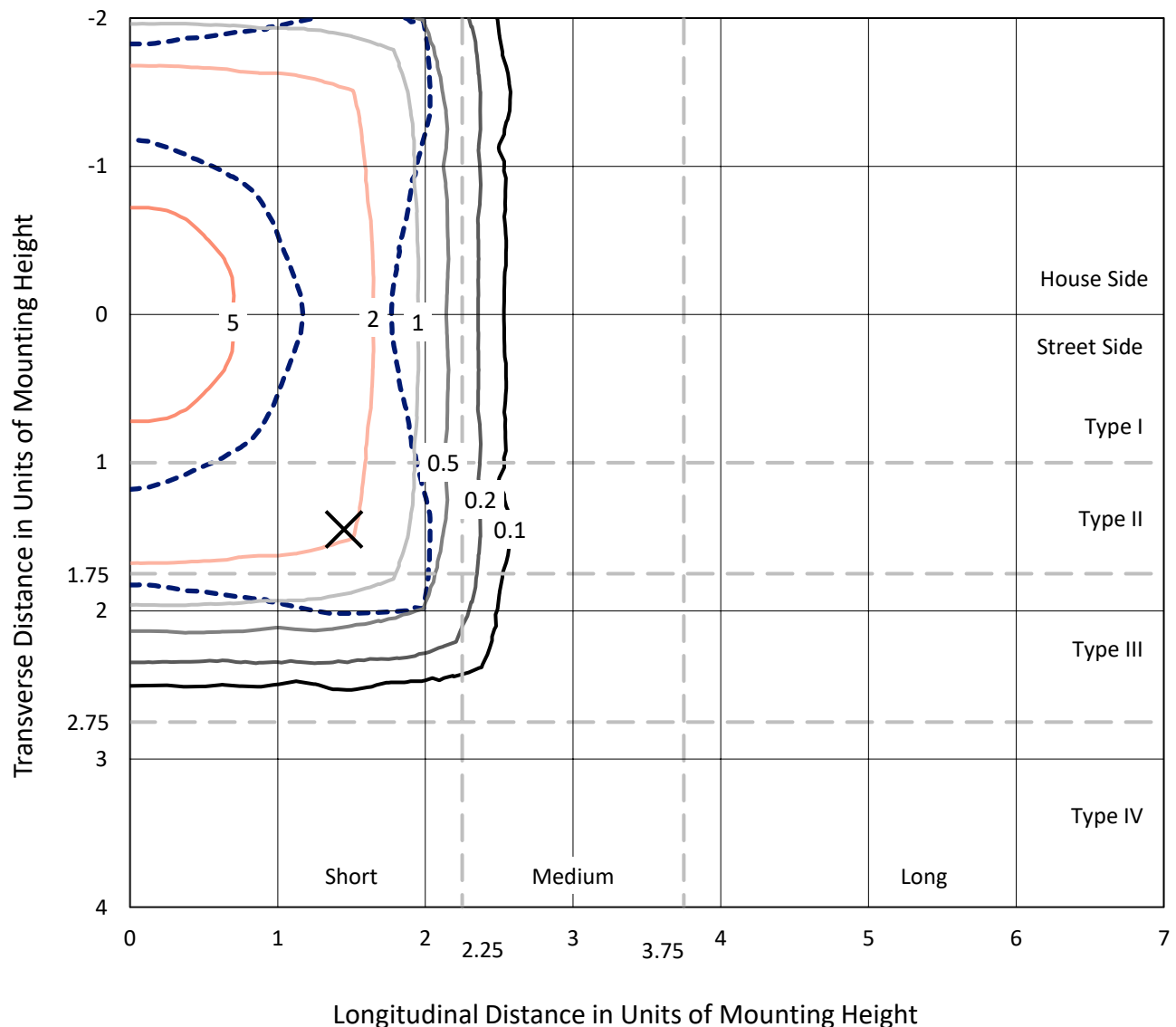


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

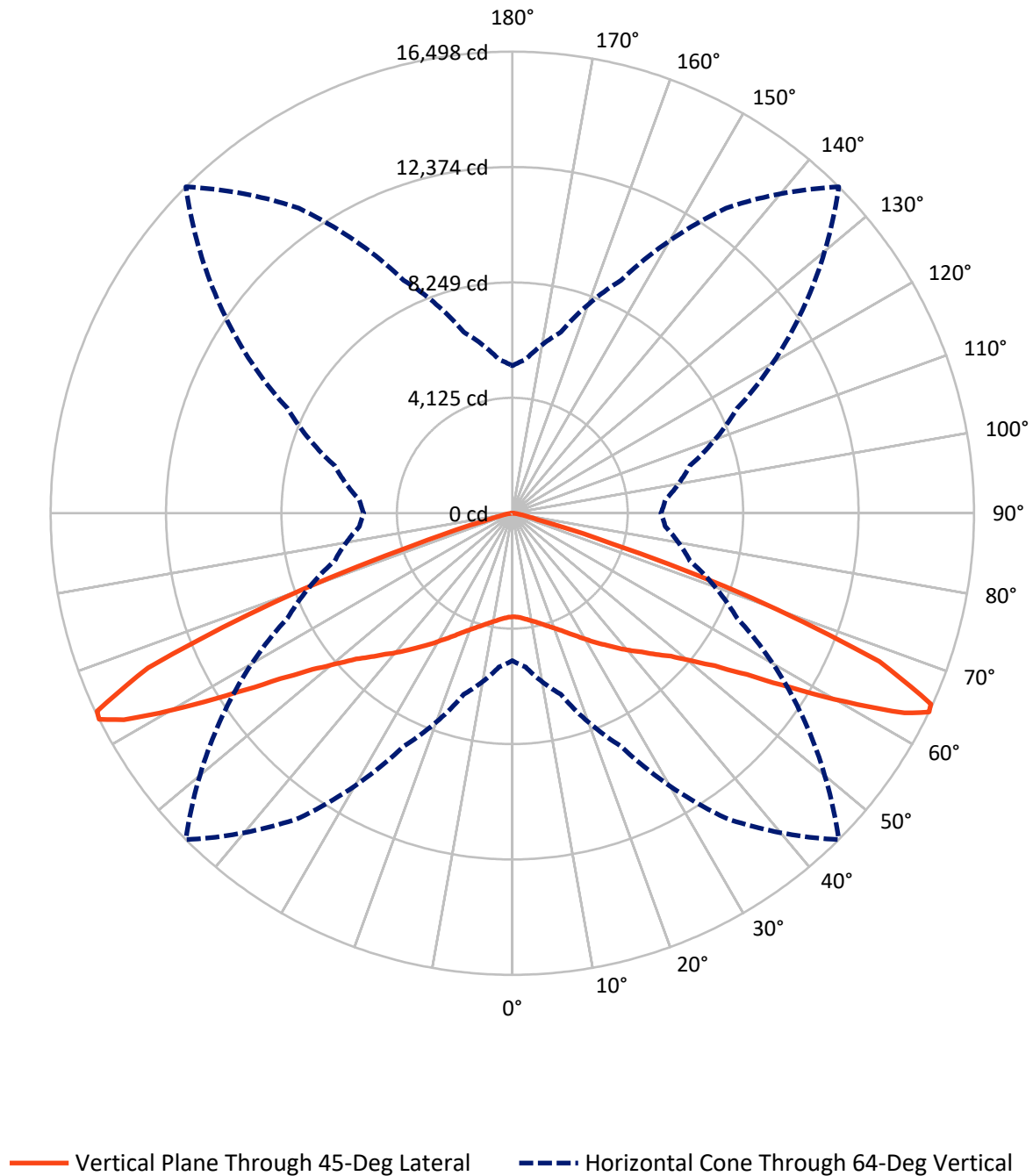


Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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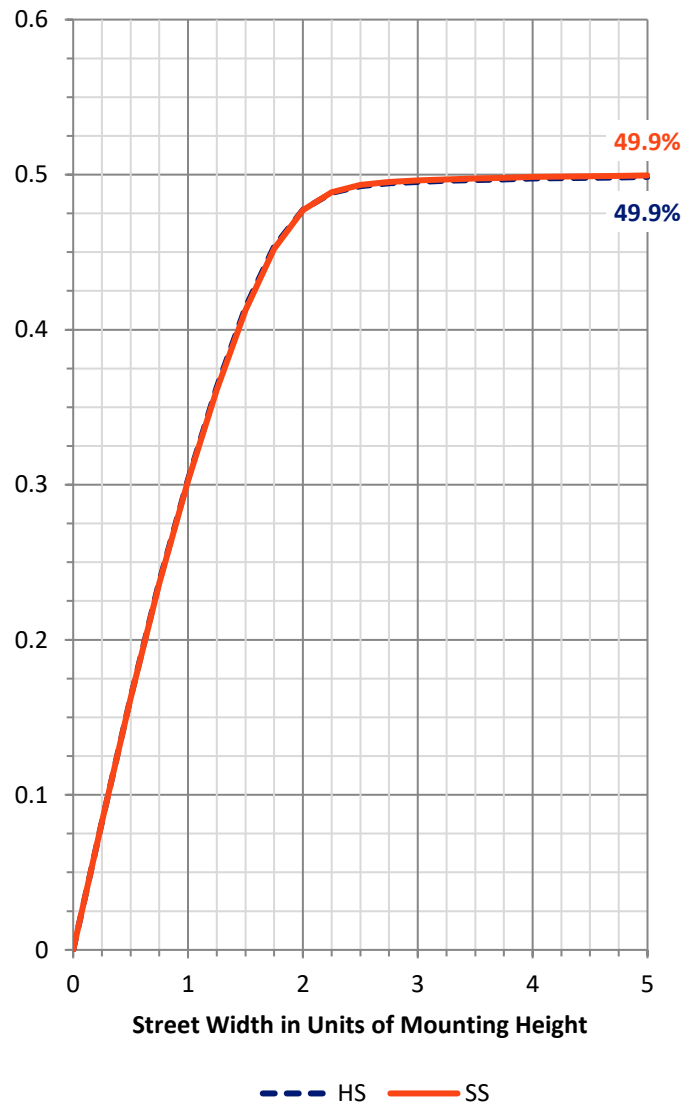
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15312.5	0.0	15312.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15312.5	0.0	15312.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30625.0	0.0	30625.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.7	1.2
10°-20°	1173.0	3.8
20°-30°	2216.7	7.2
30°-40°	3671.0	12.0
40°-50°	5731.1	18.7
50°-60°	8860.1	28.9
60°-70°	7640.0	24.9
70°-80°	865.8	2.8
80°-90°	103.7	0.3
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°	30625.0	100.0
0°-180°	30625.0	100.0

Coefficient of Utilization



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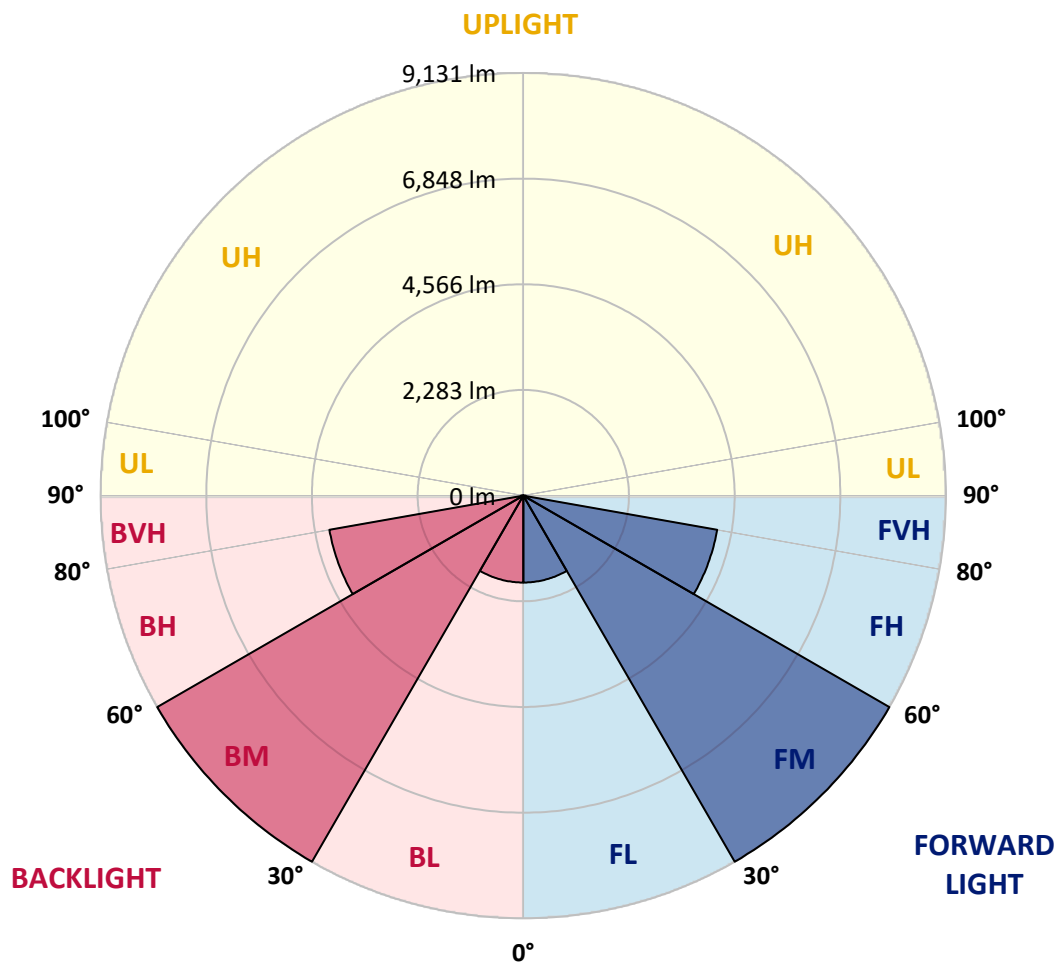
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1876.7	6.1			
FM	(30°-60°)	9131.1	29.8			
FH	(60°-80°)	4252.9	13.9			G2/5000
FVH	(80°-90°)	51.9	0.2			G1/100
BL	(0°-30°)	1876.7	6.1	B3/2500		
BM	(30°-60°)	9131.1	29.8	B5		
BH	(60°-80°)	4252.9	13.9	B4/5000		G2/5000
BVH	(80°-90°)	51.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3701.5	3701.5	3701.5	3701.5	3701.5	3701.5	3701.5	3701.5	3701.5	3701.5	3701.5
2.5°	3716.1	3724.3	3717.8	3716.1	3714.5	3714.5	3714.5	3716.1	3722.6	3727.5	3724.3
5°	3763.2	3769.7	3766.4	3764.8	3763.2	3764.8	3761.6	3759.9	3764.8	3764.8	3763.2
7.5°	3821.6	3829.7	3826.4	3829.7	3831.3	3832.9	3824.8	3818.3	3816.7	3821.6	3818.3
10°	3901.1	3907.5	3909.2	3910.8	3914.0	3912.4	3902.7	3891.3	3889.7	3888.1	3886.5
12.5°	3990.3	3995.1	3996.8	4003.2	4008.1	4009.7	3998.4	3988.7	3972.4	3975.7	3969.2
15°	4090.8	4100.6	4099.0	4108.7	4121.7	4124.9	4113.6	4097.3	4082.7	4074.6	4069.8
17.5°	4214.1	4220.6	4217.4	4227.1	4243.3	4251.4	4241.7	4220.6	4206.0	4188.2	4178.4
20°	4360.1	4371.5	4374.7	4374.7	4389.3	4397.4	4382.8	4376.3	4353.6	4340.6	4332.5
22.5°	4525.6	4530.4	4540.2	4549.9	4564.5	4561.2	4556.4	4546.6	4525.6	4514.2	4501.2
25°	4712.1	4717.0	4741.3	4762.4	4767.2	4764.0	4757.5	4752.6	4733.2	4707.2	4697.5
27.5°	4929.4	4939.2	4971.6	4991.1	4991.1	4992.7	4979.7	4996.0	4953.8	4923.0	4919.7
30°	5202.0	5208.4	5236.0	5255.5	5245.7	5237.6	5234.4	5250.6	5205.2	5150.0	5137.1
32.5°	5471.2	5493.9	5518.3	5560.4	5526.4	5511.8	5508.5	5519.9	5468.0	5406.3	5388.5
35°	5759.9	5776.2	5821.6	5857.3	5826.4	5792.4	5807.0	5842.7	5781.0	5698.3	5695.1
37.5°	6079.5	6094.1	6152.5	6189.8	6167.1	6108.7	6133.0	6175.2	6113.6	6011.4	5990.3
40°	6412.0	6442.8	6515.8	6554.8	6517.4	6439.6	6485.0	6530.4	6475.3	6356.9	6309.8
42.5°	6785.1	6833.7	6939.2	6958.6	6887.3	6781.8	6861.3	6934.3	6895.4	6759.1	6741.3
45°	7221.4	7250.6	7380.4	7422.6	7323.6	7192.2	7291.2	7424.2	7395.0	7237.6	7203.6
47.5°	7709.7	7737.2	7871.9	7935.1	7810.2	7633.4	7811.9	7985.4	7967.6	7798.9	7782.7
50°	8287.1	8293.6	8480.1	8551.5	8426.6	8274.1	8433.1	8648.8	8577.5	8361.7	8358.5
52.5°	8919.7	8927.8	9163.0	9300.9	9231.2	9059.2	9247.4	9378.8	9197.1	8914.9	8893.8
55°	9468.0	9508.5	9829.7	10196.3	10292.0	10167.1	10223.9	10162.2	9714.5	9318.7	9257.1
57.5°	9691.8	9771.3	10259.5	10944.1	11566.9	11751.8	11313.9	10726.7	9920.5	9360.9	9300.9
60°	9145.2	9231.2	9988.7	11287.9	12877.6	13680.5	12449.3	10822.4	9451.8	8665.1	8571.0
62.5°	7323.6	7347.9	8462.3	10478.5	13641.5	15721.0	12927.8	10006.5	8087.6	7018.7	6981.4
64°	5270.1	5519.9	6700.7	9187.4	13307.4	16498.0	12652.1	8862.9	6569.4	5487.4	5312.3
65°	3941.6	4009.7	5401.5	7845.9	12718.6	16439.6	12116.8	7769.7	5440.4	4199.5	4004.9
67.5°	1489.1	1497.2	1993.5	3910.8	9054.4	14144.4	9247.4	4227.1	2292.0	1657.7	1597.7
70°	618.0	629.4	731.6	1315.5	3891.3	9081.9	4459.0	1524.7	838.6	679.6	669.9
72.5°	452.6	459.0	489.9	583.9	1197.1	3729.1	1466.3	647.2	491.5	439.6	434.7
75°	355.2	358.5	381.2	429.8	558.0	1033.3	609.9	444.4	374.7	337.4	334.1
77.5°	270.9	279.0	295.2	327.7	374.7	489.9	403.9	332.5	288.7	257.9	253.0
80°	186.5	196.3	227.1	240.1	251.4	317.9	275.8	251.4	225.5	188.2	176.8
82.5°	115.2	121.7	152.5	163.8	159.0	178.4	176.8	180.0	160.6	116.8	108.7
85°	60.0	63.3	82.7	86.0	79.5	73.0	90.8	105.4	98.9	66.5	64.9
87.5°	13.0	14.6	17.8	16.2	17.8	17.8	22.7	34.1	35.7	22.7	21.1
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)