

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: P457325

Luminaire Tested: **GALN-SA8C-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457325
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-SA8C-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47080 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 429
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

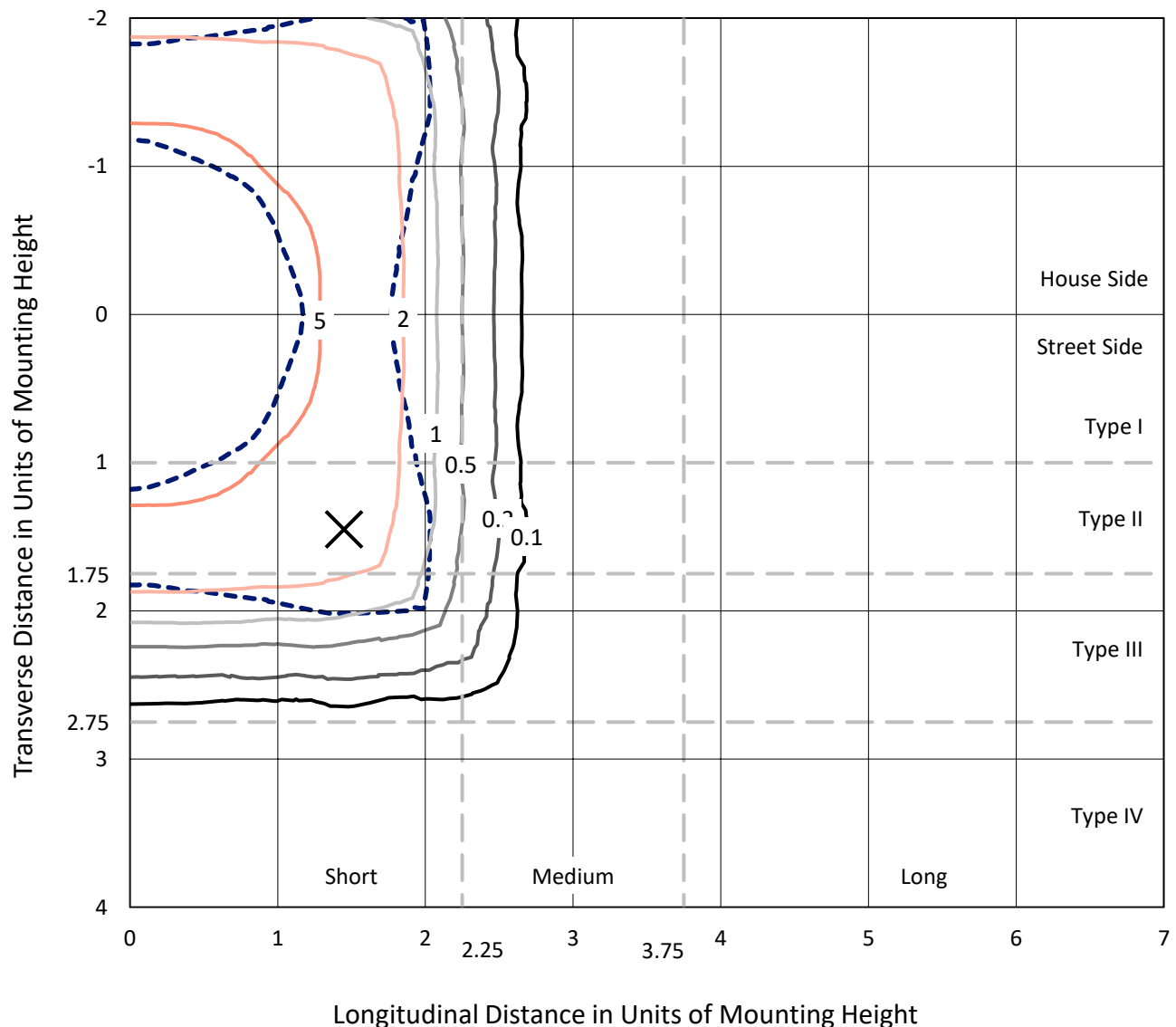


REPORT NUMBER: P457325

CATALOG NUMBER: GALN-SA8C-830-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

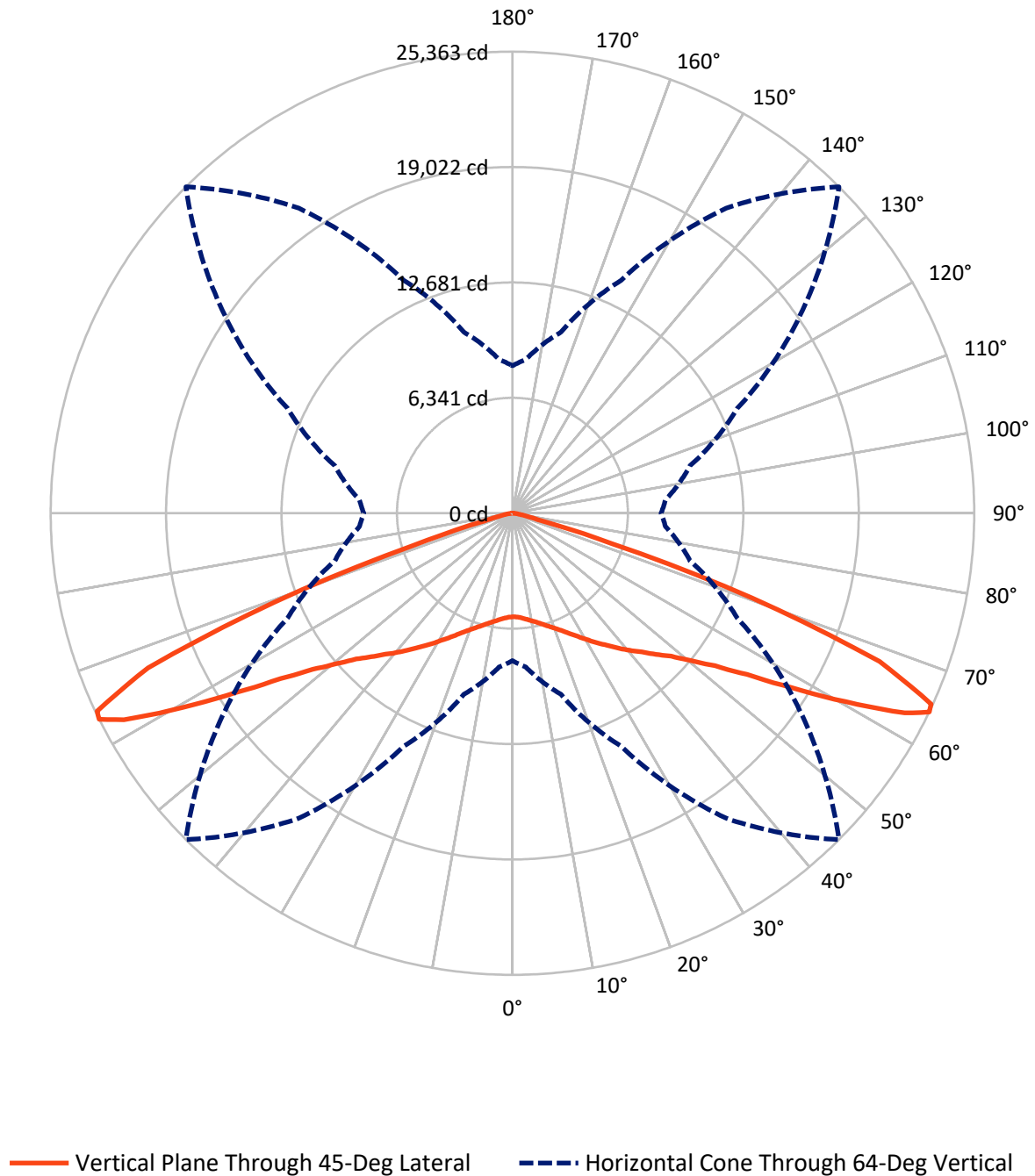


Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type V - Short - N/A

REPORT NUMBER: P457325

CATALOG NUMBER: GALN-SA8C-830-U-5NQ

Luminous Intensity Polar Plot



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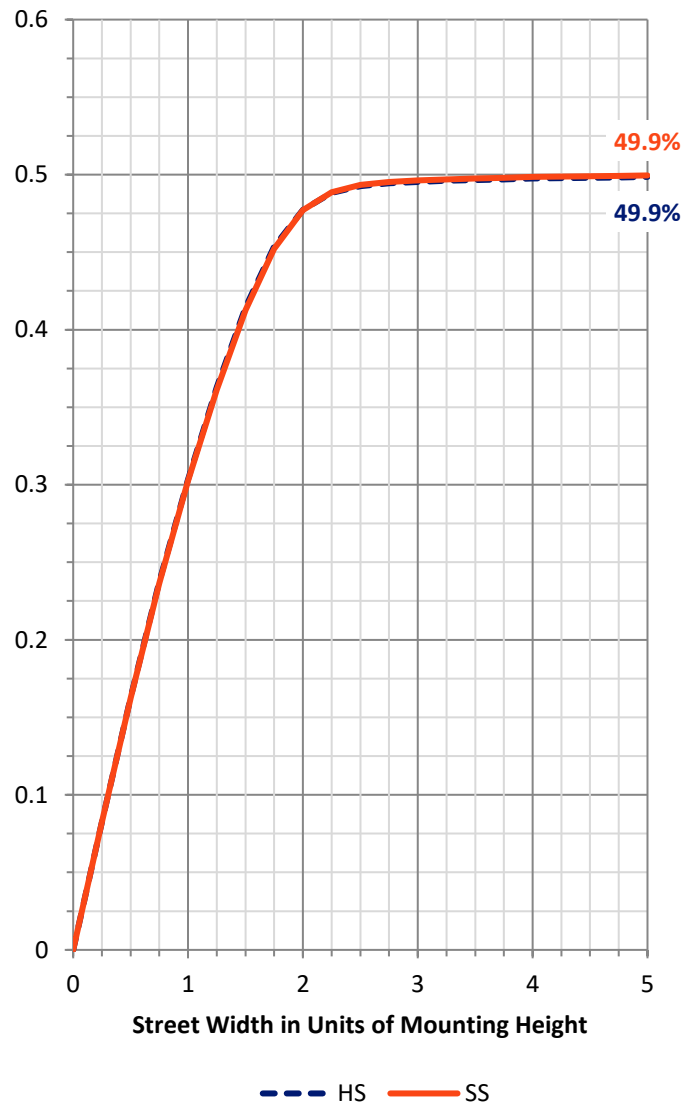
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23540.0	0.0	23540.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23540.0	0.0	23540.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	47080.0	0.0	47080.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.1	1.2
10°-20°	1803.3	3.8
20°-30°	3407.7	7.2
30°-40°	5643.5	12.0
40°-50°	8810.4	18.7
50°-60°	13620.7	28.9
60°-70°	11744.9	24.9
70°-80°	1331.0	2.8
80°-90°	159.5	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°	47080.0	100.0
0°-180°	47080.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457325

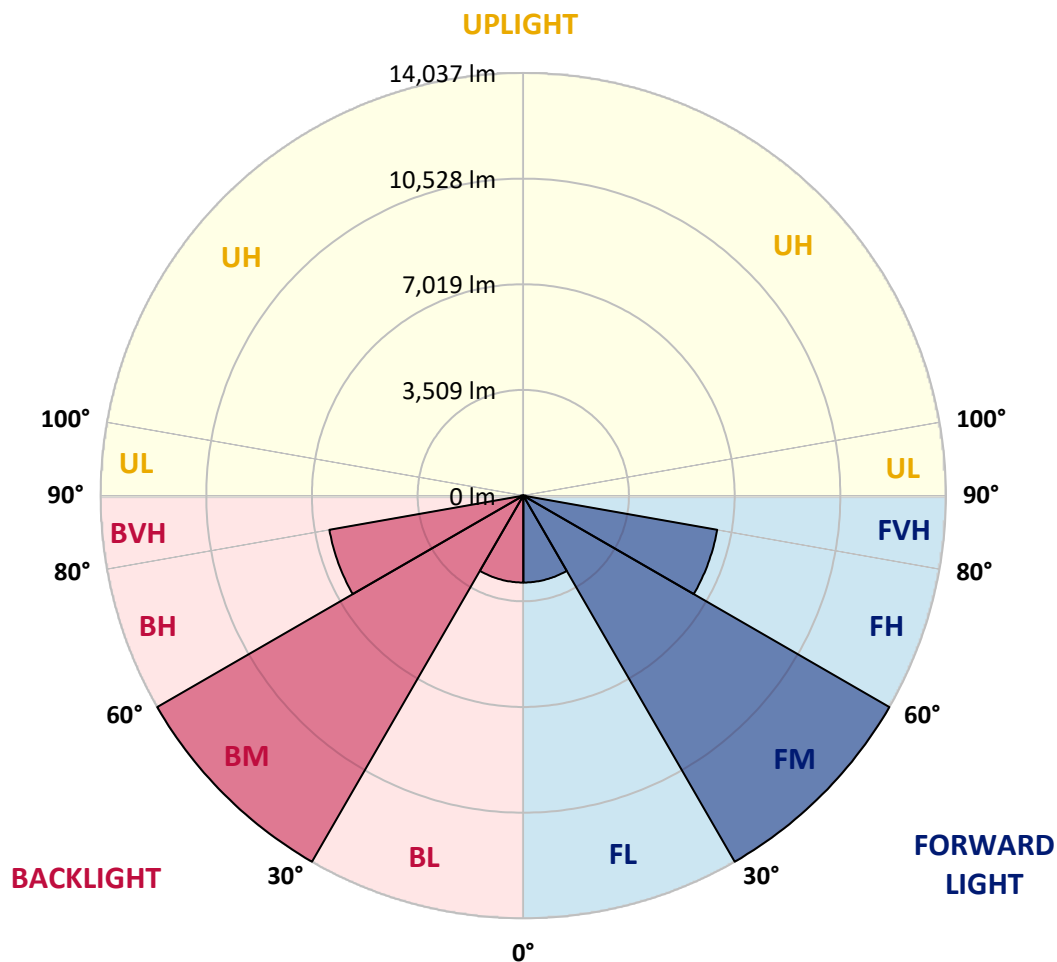
CATALOG NUMBER: GALN-SA8C-830-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2885.0	6.1			
FM	(30°-60°)	14037.3	29.8			
FH	(60°-80°)	6538.0	13.9			G3/7500
FVH	(80°-90°)	79.7	0.2			G1/100
BL	(0°-30°)	2885.0	6.1	B4/5000		
BM	(30°-60°)	14037.3	29.8	B5		
BH	(60°-80°)	6538.0	13.9	B5		G3/7500
BVH	(80°-90°)	79.7	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-G3

Type V Short



REPORT NUMBER: P457325

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5690.4	5690.4	5690.4	5690.4	5690.4	5690.4	5690.4	5690.4	5690.4	5690.4	5690.4
2.5°	5712.9	5725.3	5715.3	5712.9	5710.4	5710.4	5710.4	5712.9	5722.8	5730.3	5725.3
5°	5785.2	5795.1	5790.2	5787.7	5785.2	5787.7	5782.7	5780.2	5787.7	5787.7	5785.2
7.5°	5874.9	5887.4	5882.4	5887.4	5889.9	5892.4	5879.9	5869.9	5867.5	5874.9	5869.9
10°	5997.1	6007.1	6009.6	6012.1	6017.1	6014.6	5999.6	5982.2	5979.7	5977.2	5974.7
12.5°	6134.3	6141.8	6144.2	6154.2	6161.7	6164.2	6146.7	6131.8	6106.8	6111.8	6101.9
15°	6288.9	6303.8	6301.3	6316.3	6336.3	6341.2	6323.8	6298.8	6276.4	6263.9	6256.5
17.5°	6478.4	6488.4	6483.4	6498.3	6523.3	6535.7	6520.8	6488.4	6465.9	6438.5	6423.5
20°	6702.8	6720.3	6725.3	6725.3	6747.7	6760.2	6737.7	6727.7	6692.8	6672.9	6660.4
22.5°	6957.2	6964.6	6979.6	6994.6	7017.0	7012.0	7004.5	6989.6	6957.2	6939.7	6919.8
25°	7243.9	7251.4	7288.8	7321.2	7328.7	7323.7	7313.7	7306.3	7276.3	7236.4	7221.5
27.5°	7578.1	7593.0	7642.9	7672.8	7672.8	7675.3	7655.4	7680.3	7615.5	7568.1	7563.1
30°	7997.0	8007.0	8049.4	8079.3	8064.3	8051.9	8046.9	8071.8	8002.0	7917.2	7897.3
32.5°	8410.9	8445.8	8483.2	8548.1	8495.7	8473.3	8468.3	8485.7	8405.9	8311.2	8283.8
35°	8854.8	8879.7	8949.6	9004.4	8957.0	8904.7	8927.1	8982.0	8887.2	8760.0	8755.1
37.5°	9346.0	9368.5	9458.2	9515.6	9480.7	9390.9	9428.3	9493.2	9398.4	9241.3	9208.9
40°	9857.2	9904.6	10016.8	10076.7	10019.3	9899.6	9969.4	10039.3	9954.5	9772.4	9700.1
42.5°	10430.8	10505.6	10667.6	10697.6	10587.9	10425.8	10548.0	10660.2	10600.3	10390.9	10363.4
45°	11101.5	11146.4	11345.9	11410.7	11258.6	11056.7	11208.8	11413.2	11368.4	11126.5	11074.1
47.5°	11852.1	11894.5	12101.5	12198.7	12006.7	11734.9	12009.2	12276.0	12248.6	11989.3	11964.3
50°	12739.8	12749.8	13036.6	13146.3	12954.3	12719.9	12964.3	13295.9	13186.2	12854.5	12849.6
52.5°	13712.3	13724.8	14086.4	14298.3	14191.1	13926.8	14216.0	14418.0	14138.7	13704.9	13672.4
55°	14555.2	14617.5	15111.3	15674.8	15821.9	15629.9	15717.2	15622.4	14934.2	14325.8	14231.0
57.5°	14899.3	15021.5	15772.1	16824.4	17781.9	18066.2	17392.9	16490.2	15250.9	14390.6	14298.3
60°	14059.0	14191.1	15355.6	17353.0	19796.7	21031.1	19138.4	16637.3	14530.2	13320.8	13176.2
62.5°	11258.6	11296.0	13009.1	16108.7	20971.2	24168.0	19874.0	15383.1	12433.1	10789.8	10732.5
64°	8101.7	8485.7	10301.1	14123.8	20457.5	25362.5	19450.1	13625.1	10099.1	8435.9	8166.6
65°	6059.5	6164.2	8303.7	12061.6	19552.4	25272.7	18627.2	11944.4	8363.6	6455.9	6156.7
67.5°	2289.1	2301.6	3064.6	6012.1	13919.3	21744.2	14216.0	6498.3	3523.5	2548.5	2456.2
70°	950.1	967.5	1124.6	2022.3	5982.2	13961.7	6854.9	2344.0	1289.2	1044.8	1029.9
72.5°	695.7	705.7	753.1	897.7	1840.3	5732.8	2254.2	994.9	755.6	675.8	668.3
75°	546.1	551.1	586.0	660.8	857.8	1588.4	937.6	683.2	576.0	518.7	513.7
77.5°	416.4	428.9	453.8	503.7	576.0	753.1	620.9	511.2	443.9	396.5	389.0
80°	286.8	301.7	349.1	369.1	386.5	488.7	423.9	386.5	346.6	289.3	271.8
82.5°	177.0	187.0	234.4	251.9	244.4	274.3	271.8	276.8	246.9	179.5	167.1
85°	92.3	97.3	127.2	132.2	122.2	112.2	139.6	162.1	152.1	102.2	99.7
87.5°	19.9	22.4	27.4	24.9	27.4	27.4	34.9	52.4	54.9	34.9	32.4
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)