

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: P456165

Luminaire Tested: **GALN-SA7B-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456165
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-SA7B-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32868 lumens
Efficiency: N/A
Efficacy: 114.9 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): 286
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



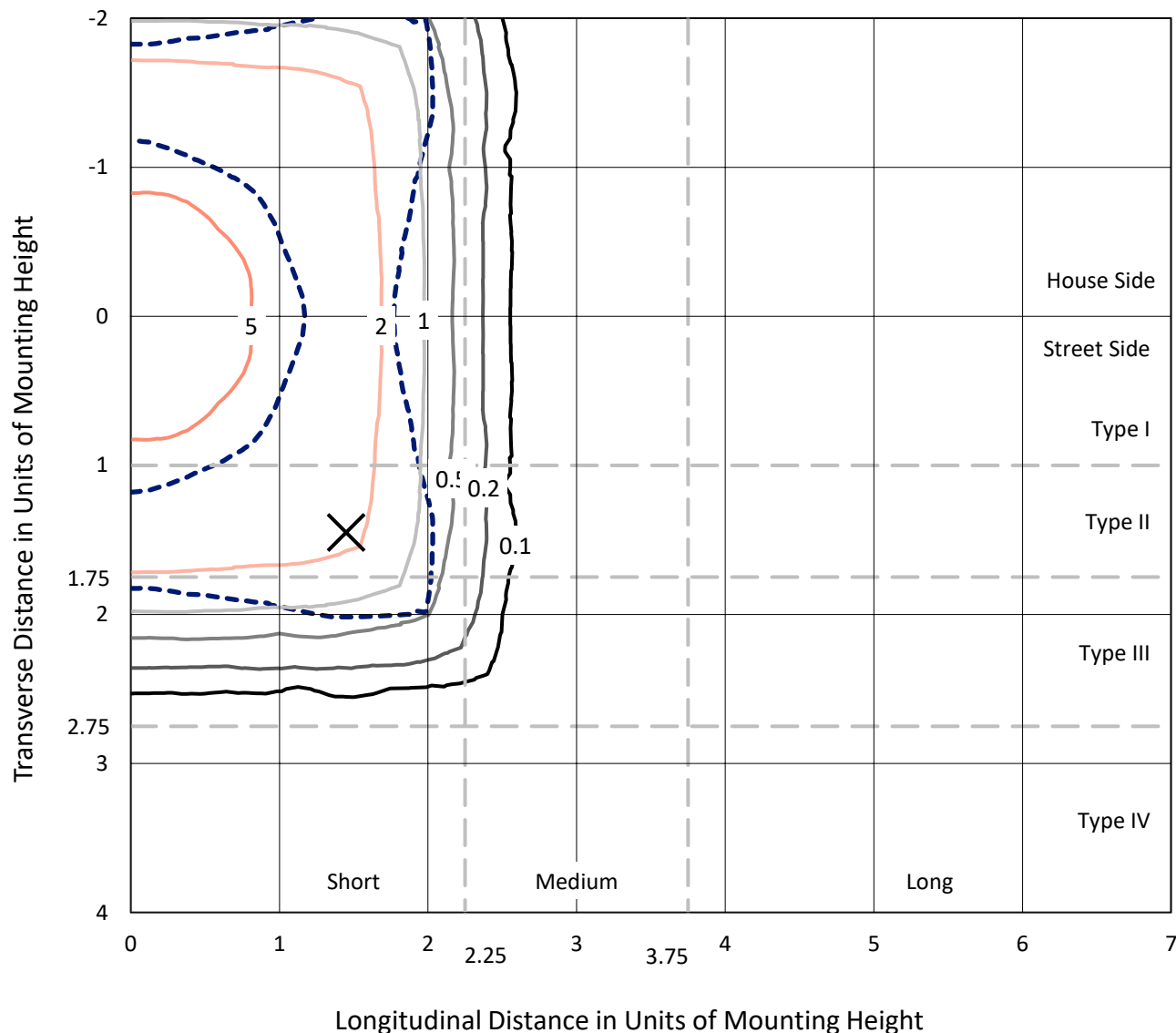
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



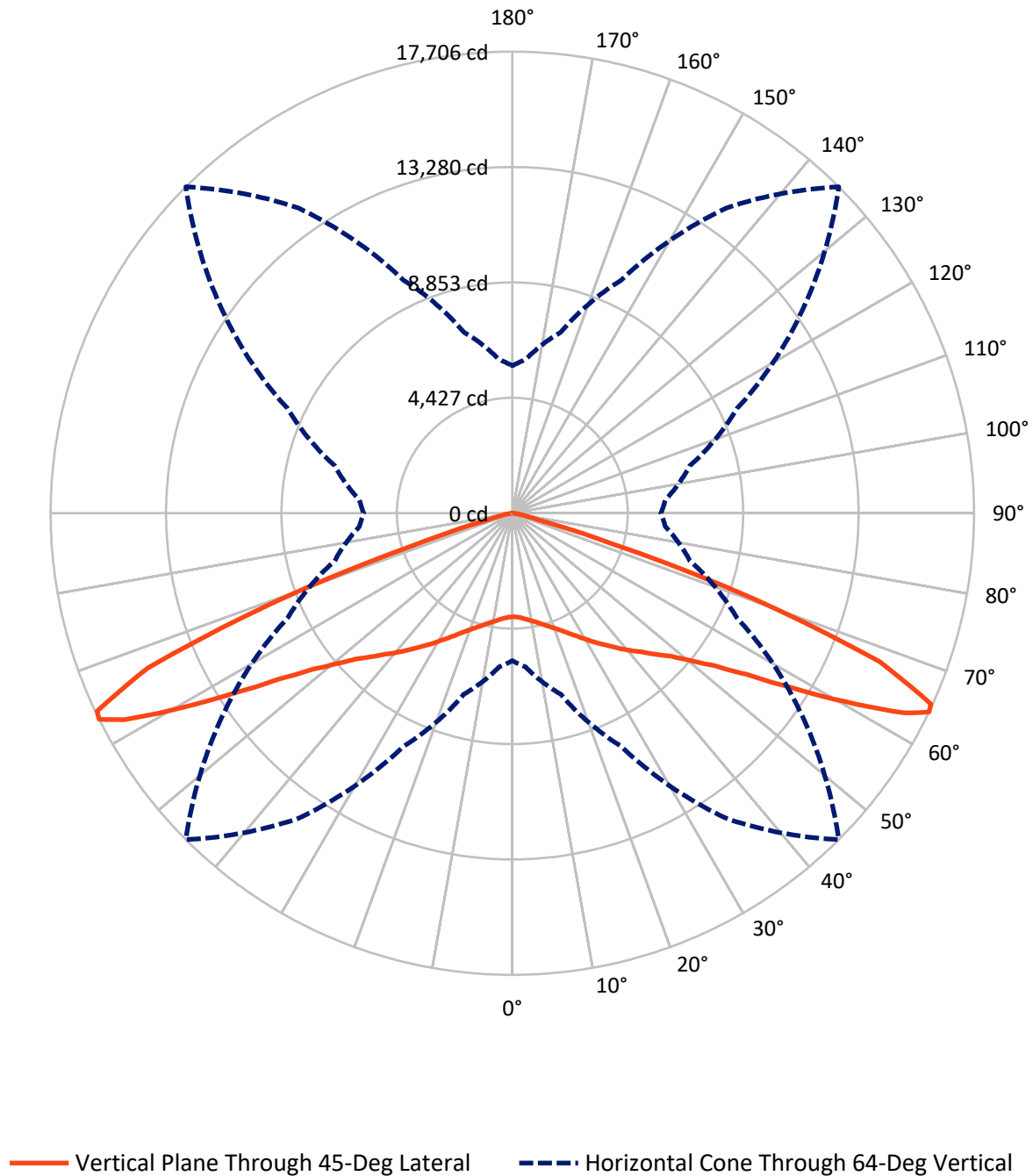
Based on 25 foot mounting height. Maximum calculated value = 6.4 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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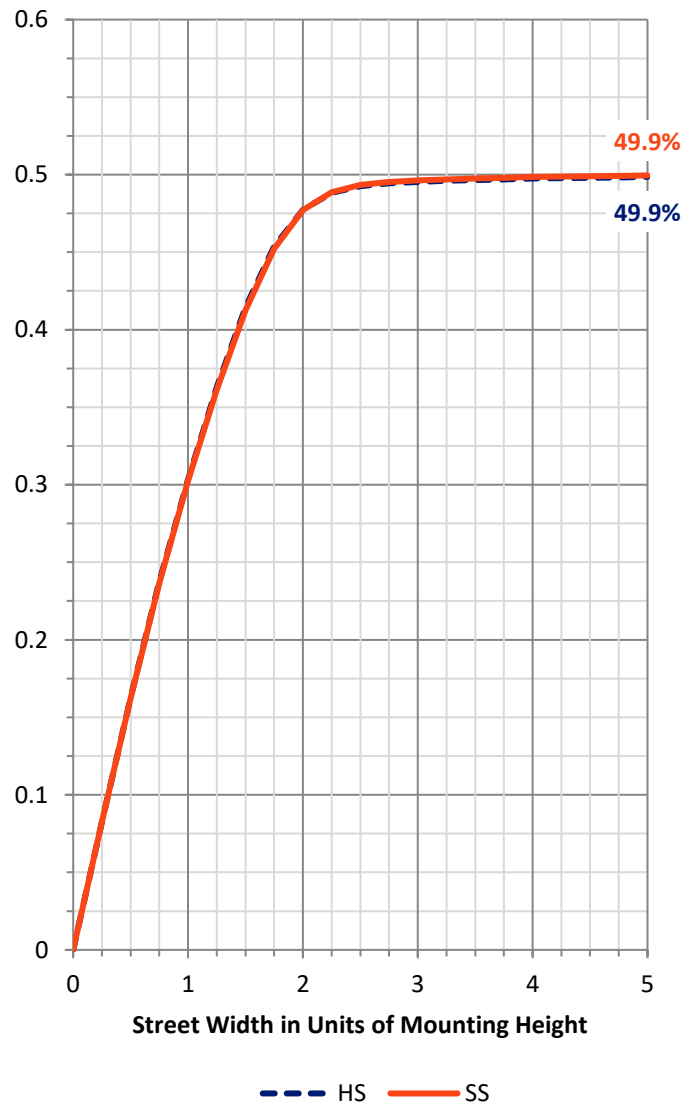
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16434.0	0.0	16434.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16434.0	0.0	16434.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32868.0	0.0	32868.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.3	1.2
10°-20°	1258.9	3.8
20°-30°	2379.0	7.2
30°-40°	3939.9	12.0
40°-50°	6150.8	18.7
50°-60°	9509.0	28.9
60°-70°	8199.5	24.9
70°-80°	929.2	2.8
80°-90°	111.3	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°	32868.0	100.0
0°-180°	32868.0	100.0

Coefficient of Utilization



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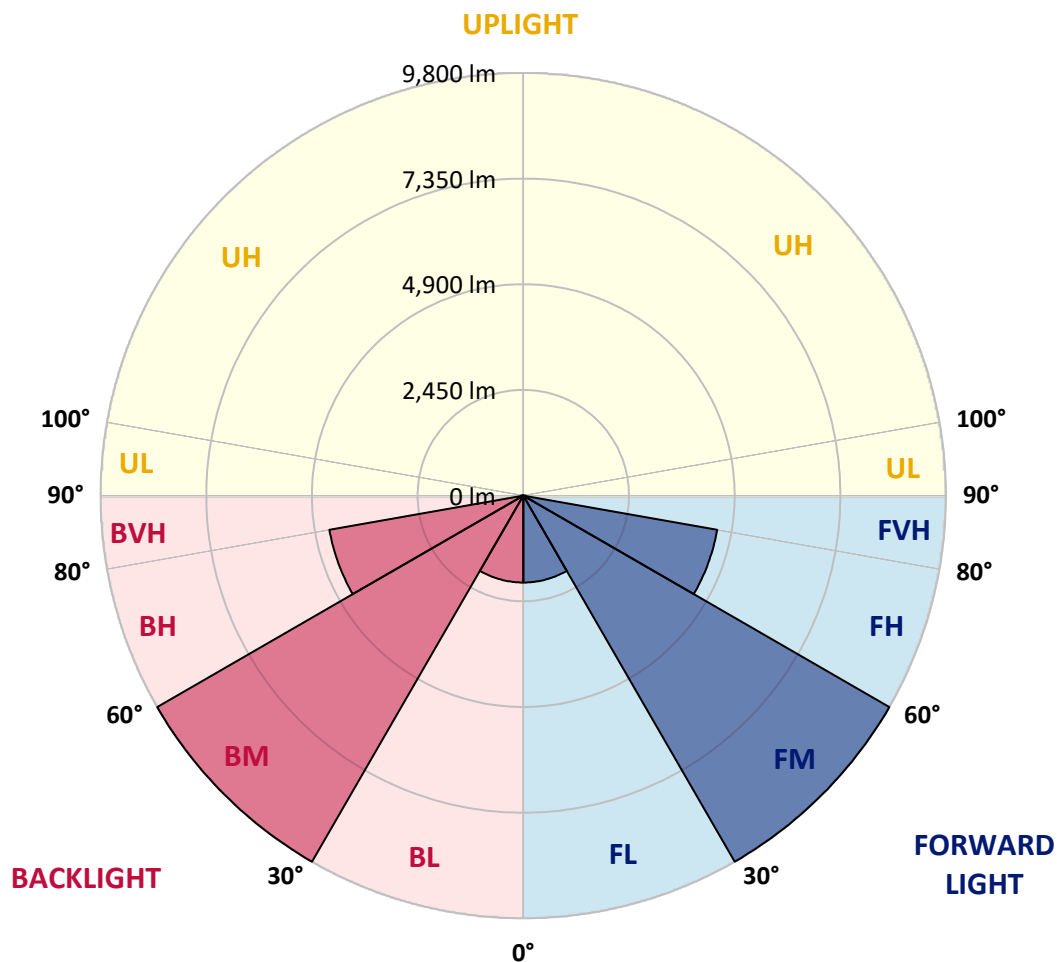
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2014.1	6.1			
FM	(30°-60°)	9799.9	29.8			
FH	(60°-80°)	4564.4	13.9			G2/5000
FVH	(80°-90°)	55.7	0.2			G1/100
BL	(0°-30°)	2014.1	6.1	B3/2500		
BM	(30°-60°)	9799.9	29.8	B5		
BH	(60°-80°)	4564.4	13.9	B4/5000		G2/5000
BVH	(80°-90°)	55.7	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3972.7	3972.7	3972.7	3972.7	3972.7	3972.7	3972.7	3972.7	3972.7	3972.7	3972.7
2.5°	3988.3	3997.0	3990.1	3988.3	3986.6	3986.6	3986.6	3988.3	3995.3	4000.5	3997.0
5°	4038.8	4045.8	4042.3	4040.5	4038.8	4040.5	4037.1	4035.3	4040.5	4040.5	4038.8
7.5°	4101.5	4110.2	4106.7	4110.2	4111.9	4113.7	4105.0	4098.0	4096.3	4101.5	4098.0
10°	4186.8	4193.7	4195.5	4197.2	4200.7	4199.0	4188.5	4176.3	4174.6	4172.8	4171.1
12.5°	4282.5	4287.7	4289.5	4296.5	4301.7	4303.4	4291.2	4280.8	4263.4	4266.9	4259.9
15°	4390.5	4400.9	4399.2	4409.6	4423.5	4427.0	4414.8	4397.4	4381.8	4373.0	4367.8
17.5°	4522.8	4529.7	4526.2	4536.7	4554.1	4562.8	4552.4	4529.7	4514.1	4494.9	4484.5
20°	4679.4	4691.6	4695.1	4695.1	4710.8	4719.5	4703.8	4696.8	4672.5	4658.6	4649.8
22.5°	4857.0	4862.2	4872.7	4883.1	4898.8	4895.3	4890.1	4879.6	4857.0	4844.8	4830.9
25°	5057.2	5062.4	5088.5	5111.2	5116.4	5112.9	5106.0	5100.7	5079.8	5052.0	5041.5
27.5°	5290.5	5300.9	5335.7	5356.6	5356.6	5358.4	5344.5	5361.9	5316.6	5283.5	5280.0
30°	5582.9	5589.9	5619.5	5640.4	5630.0	5621.2	5617.8	5635.2	5586.4	5527.2	5513.3
32.5°	5871.9	5896.3	5922.4	5967.7	5931.1	5915.5	5912.0	5924.2	5868.5	5802.3	5783.1
35°	6181.8	6199.2	6248.0	6286.3	6253.2	6216.6	6232.3	6270.6	6204.4	6115.7	6112.2
37.5°	6524.8	6540.4	6603.1	6643.1	6618.8	6556.1	6582.2	6627.5	6561.3	6451.6	6429.0
40°	6881.6	6914.7	6993.0	7034.8	6994.8	6911.2	6960.0	7008.7	6949.5	6822.4	6772.0
42.5°	7282.0	7334.3	7447.4	7468.3	7391.7	7278.6	7363.9	7442.2	7400.4	7254.2	7235.0
45°	7750.3	7781.7	7920.9	7966.2	7860.0	7719.0	7825.2	7967.9	7936.6	7767.7	7731.2
47.5°	8274.3	8303.9	8448.4	8516.3	8382.3	8192.5	8384.0	8570.3	8551.1	8370.1	8352.7
50°	8894.1	8901.0	9101.2	9177.8	9043.8	8880.1	9050.7	9282.3	9205.7	8974.2	8970.7
52.5°	9573.0	9581.7	9834.1	9982.1	9907.3	9722.7	9924.7	10065.7	9870.7	9567.8	9545.2
55°	10161.4	10204.9	10549.6	10943.1	11045.8	10911.7	10972.7	10906.5	10426.0	10001.3	9935.1
57.5°	10401.7	10487.0	11011.0	11745.6	12414.1	12612.6	12142.5	11512.3	10647.1	10046.5	9982.1
60°	9815.0	9907.3	10720.2	12114.7	13820.7	14682.4	13361.1	11615.0	10144.0	9299.7	9198.7
62.5°	7860.0	7886.1	9082.1	11246.0	14640.7	16872.4	13874.7	10739.4	8679.9	7532.7	7492.7
64°	5656.1	5924.2	7191.5	9860.3	14282.0	17706.3	13578.7	9512.1	7050.5	5889.3	5701.3
65°	4230.3	4303.4	5797.1	8420.6	13650.1	17643.7	13004.3	8338.7	5838.9	4507.1	4298.2
67.5°	1598.1	1606.8	2139.5	4197.2	9717.5	15180.3	9924.7	4536.7	2459.8	1779.2	1714.8
70°	663.3	675.5	785.1	1411.8	4176.3	9747.1	4785.6	1636.4	900.0	729.4	719.0
72.5°	485.7	492.7	525.7	626.7	1284.8	4002.2	1573.7	694.6	527.5	471.8	466.6
75°	381.2	384.7	409.1	461.3	598.9	1108.9	654.6	477.0	402.1	362.1	358.6
77.5°	290.7	299.4	316.8	351.7	402.1	525.7	433.5	356.9	309.9	276.8	271.6
80°	200.2	210.6	243.7	257.6	269.8	341.2	295.9	269.8	242.0	201.9	189.8
82.5°	123.6	130.6	163.6	175.8	170.6	191.5	189.8	193.2	172.3	125.3	116.6
85°	64.4	67.9	88.8	92.3	85.3	78.3	97.5	113.2	106.2	71.4	69.6
87.5°	13.9	15.7	19.1	17.4	19.1	19.1	24.4	36.6	38.3	24.4	22.6
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)