

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: P454773

Luminaire Tested: **GALN-SA5D-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454773
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-SA5D-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32128 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 309
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

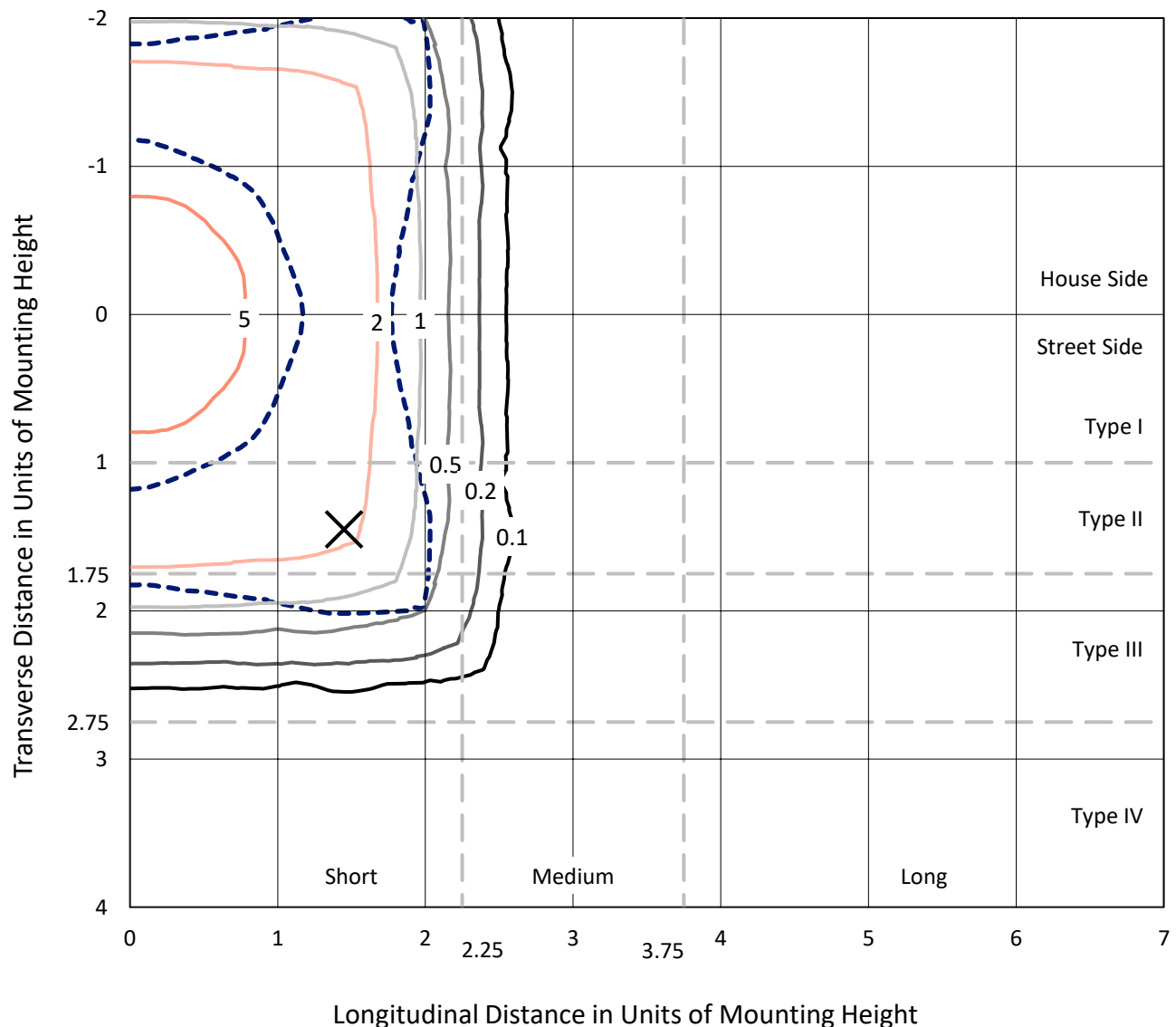


REPORT NUMBER: P454773

CATALOG NUMBER: GALN-SA5D-830-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

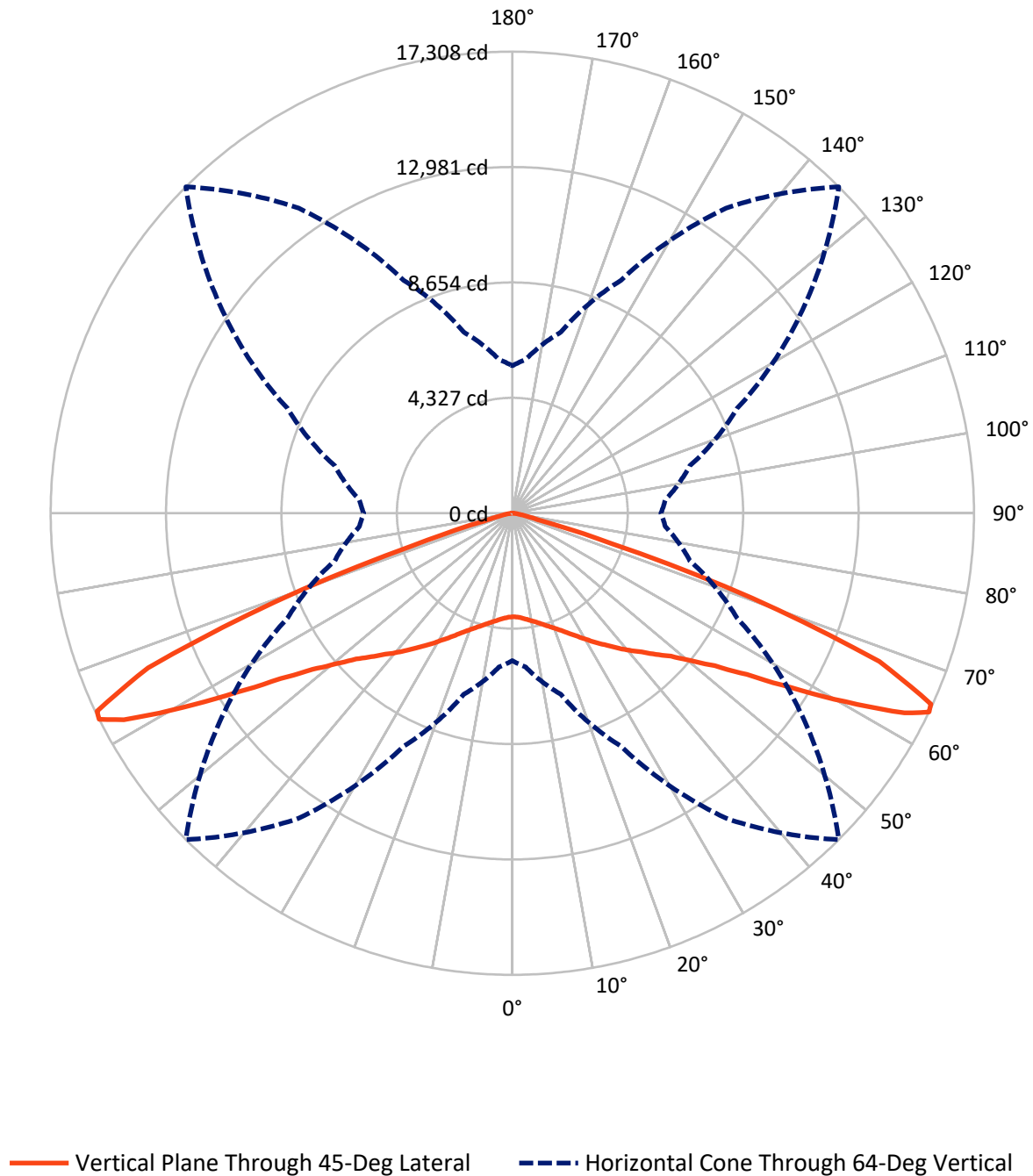


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - N/A

REPORT NUMBER: P454773

CATALOG NUMBER: GALN-SA5D-830-U-5NQ

Luminous Intensity Polar Plot



REPORT NUMBER: P454773

CATALOG NUMBER: GALN-SA5D-830-U-5NQ

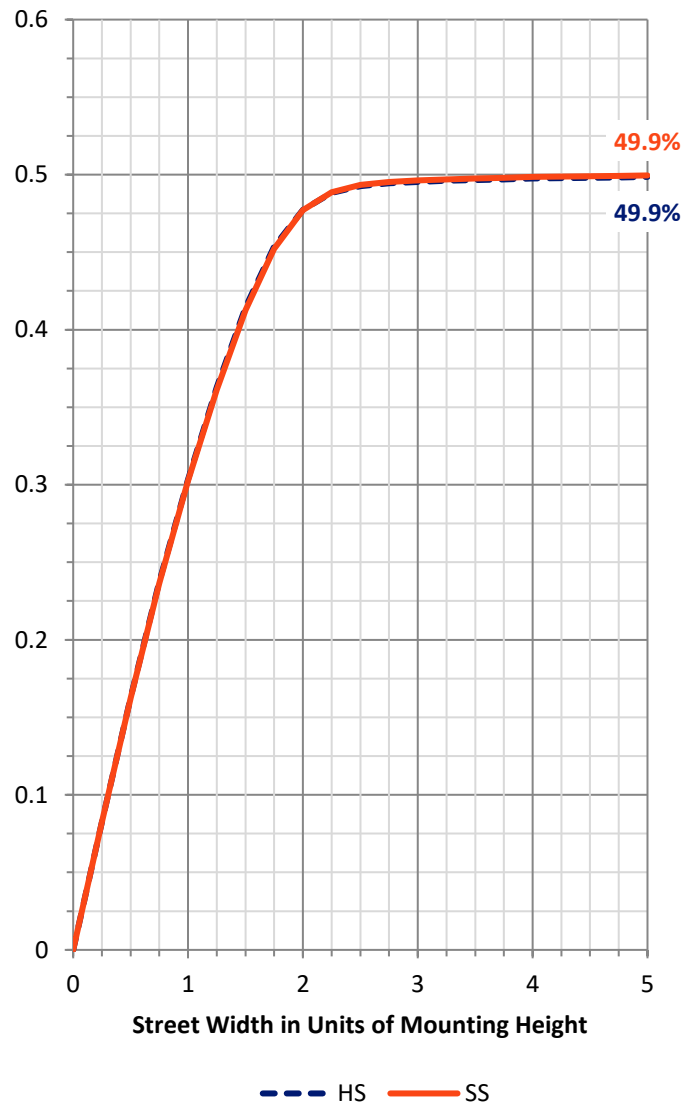
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16064.0	0.0	16064.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16064.0	0.0	16064.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32128.0	0.0	32128.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.5	1.2
10°-20°	1230.6	3.8
20°-30°	2325.4	7.2
30°-40°	3851.2	12.0
40°-50°	6012.3	18.7
50°-60°	9294.9	28.9
60°-70°	8014.9	24.9
70°-80°	908.3	2.8
80°-90°	108.8	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°	32128.0	100.0
0°-180°	32128.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454773

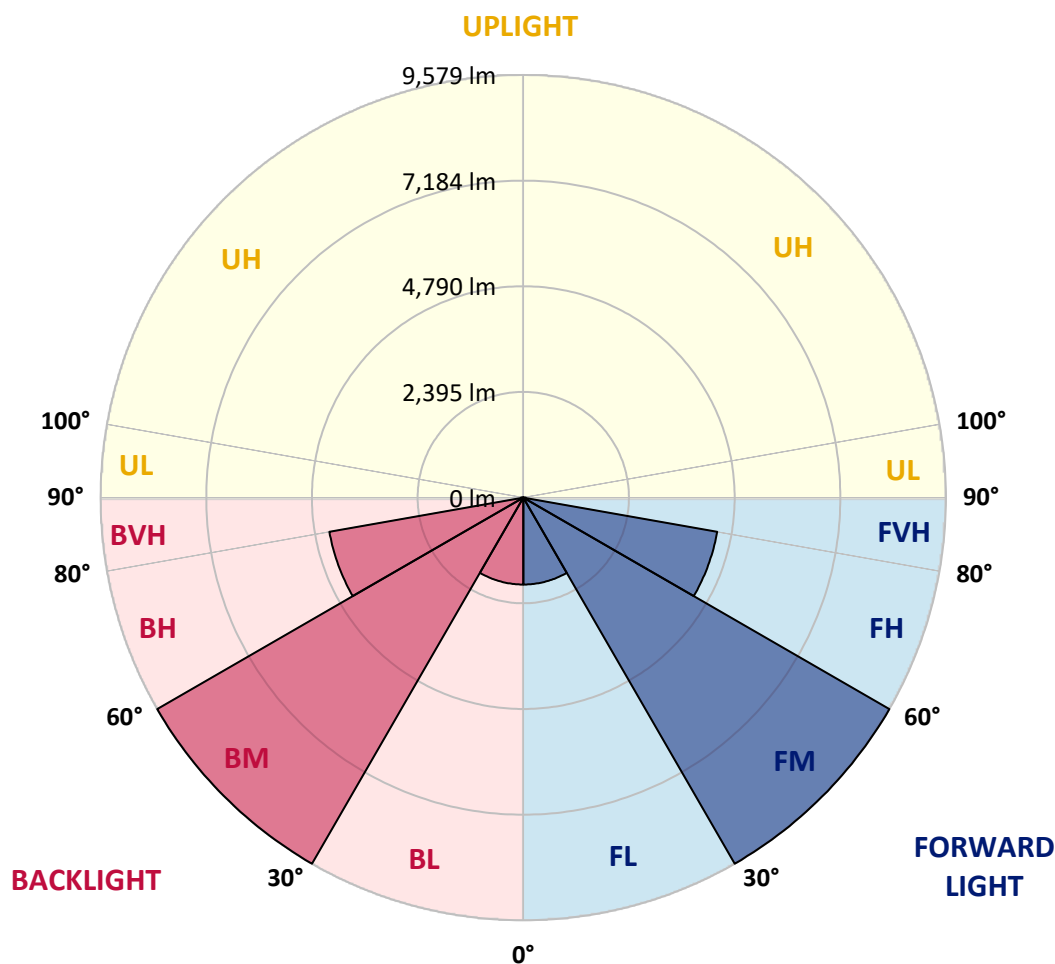
CATALOG NUMBER: GALN-SA5D-830-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1968.8	6.1			
FM	(30°-60°)	9579.2	29.8			
FH	(60°-80°)	4461.6	13.9			G2/5000
FVH	(80°-90°)	54.4	0.2			G1/100
BL	(0°-30°)	1968.8	6.1	B3/2500		
BM	(30°-60°)	9579.2	29.8	B5		
BH	(60°-80°)	4461.6	13.9	B4/5000		G2/5000
BVH	(80°-90°)	54.4	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





REPORT NUMBER: P454773

CATALOG NUMBER: GALN-SA5D-830-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3883.2	3883.2	3883.2	3883.2	3883.2	3883.2	3883.2	3883.2	3883.2	3883.2	3883.2
2.5°	3898.5	3907.0	3900.2	3898.5	3896.8	3896.8	3896.8	3898.5	3905.3	3910.4	3907.0
5°	3947.9	3954.7	3951.3	3949.6	3947.9	3949.6	3946.2	3944.5	3949.6	3949.6	3947.9
7.5°	4009.1	4017.6	4014.2	4017.6	4019.3	4021.0	4012.5	4005.7	4004.0	4009.1	4005.7
10°	4092.5	4099.3	4101.0	4102.7	4106.1	4104.4	4094.2	4082.3	4080.6	4078.9	4077.2
12.5°	4186.1	4191.2	4192.9	4199.7	4204.8	4206.5	4194.6	4184.4	4167.4	4170.8	4164.0
15°	4291.6	4301.8	4300.1	4310.3	4323.9	4327.3	4315.4	4298.4	4283.1	4274.6	4269.5
17.5°	4420.9	4427.7	4424.3	4434.5	4451.6	4460.1	4449.9	4427.7	4412.4	4393.7	4383.5
20°	4574.1	4586.0	4589.4	4589.4	4604.7	4613.2	4597.9	4591.1	4567.3	4553.7	4545.2
22.5°	4747.7	4752.8	4763.0	4773.2	4788.5	4785.1	4780.0	4769.8	4747.7	4735.7	4722.1
25°	4943.3	4948.5	4974.0	4996.1	5001.2	4997.8	4991.0	4985.9	4965.5	4938.2	4928.0
27.5°	5171.4	5181.6	5215.6	5236.0	5236.0	5237.7	5224.1	5241.1	5196.9	5164.6	5161.2
30°	5457.3	5464.1	5493.0	5513.4	5503.2	5494.7	5491.3	5508.3	5460.7	5402.8	5389.2
32.5°	5739.7	5763.6	5789.1	5833.3	5797.6	5782.3	5778.9	5790.8	5736.3	5671.7	5652.9
35°	6042.6	6059.6	6107.3	6144.7	6112.4	6076.7	6092.0	6129.4	6064.7	5978.0	5974.6
37.5°	6377.9	6393.2	6454.4	6493.6	6469.7	6408.5	6434.0	6478.3	6413.6	6306.4	6284.3
40°	6726.7	6759.0	6835.6	6876.4	6837.3	6755.6	6803.3	6850.9	6793.1	6668.8	6619.5
42.5°	7118.1	7169.1	7279.7	7300.2	7225.3	7114.7	7198.1	7274.6	7233.8	7090.9	7072.1
45°	7575.8	7606.5	7742.6	7786.8	7683.0	7545.2	7649.0	7788.5	7757.9	7592.8	7557.1
47.5°	8088.0	8117.0	8258.2	8324.6	8193.5	8008.1	8195.2	8377.3	8358.6	8181.6	8164.6
50°	8693.8	8700.6	8896.3	8971.2	8840.2	8680.2	8847.0	9073.3	8998.4	8772.1	8768.7
52.5°	9357.5	9366.0	9612.7	9757.4	9684.2	9503.8	9701.2	9839.1	9648.5	9352.4	9330.3
55°	9932.6	9975.2	10312.1	10696.7	10797.1	10666.1	10725.6	10661.0	10191.3	9776.1	9711.4
57.5°	10167.5	10250.9	10763.1	11481.2	12134.6	12328.6	11869.1	11253.1	10407.4	9820.3	9757.4
60°	9594.0	9684.2	10478.9	11841.9	13509.6	14351.9	13060.3	11353.5	9915.6	9090.3	8991.6
62.5°	7683.0	7708.6	8877.6	10992.8	14311.0	16492.6	13562.3	10497.6	8484.5	7363.1	7324.0
64°	5528.7	5790.8	7029.6	9638.3	13960.5	17307.7	13273.0	9297.9	6891.8	5756.7	5573.0
65°	4135.1	4206.5	5666.6	8231.0	13342.8	17246.4	12711.5	8151.0	5707.4	4405.6	4201.4
67.5°	1562.1	1570.6	2091.4	4102.7	9498.7	14838.6	9701.2	4434.5	2404.5	1739.1	1676.1
70°	648.3	660.2	767.5	1380.1	4082.3	9527.6	4677.9	1599.6	879.8	713.0	702.8
72.5°	474.8	481.6	513.9	612.6	1255.8	3912.1	1538.3	679.0	515.6	461.2	456.0
75°	372.7	376.1	399.9	450.9	585.4	1084.0	639.8	466.3	393.1	353.9	350.5
77.5°	284.2	292.7	309.7	343.7	393.1	513.9	423.7	348.8	302.9	270.6	265.5
80°	195.7	205.9	238.2	251.8	263.8	333.5	289.3	263.8	236.5	197.4	185.5
82.5°	120.8	127.6	160.0	171.9	166.8	187.2	185.5	188.9	168.5	122.5	114.0
85°	63.0	66.4	86.8	90.2	83.4	76.6	95.3	110.6	103.8	69.8	68.1
87.5°	13.6	15.3	18.7	17.0	18.7	18.7	23.8	35.7	37.4	23.8	22.1
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)