

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: P454541

Luminaire Tested: **GALN-SA5C-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454541
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-SA5C-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 29198 lumens
Efficiency: N/A
Efficacy: 108.5 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): 269
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

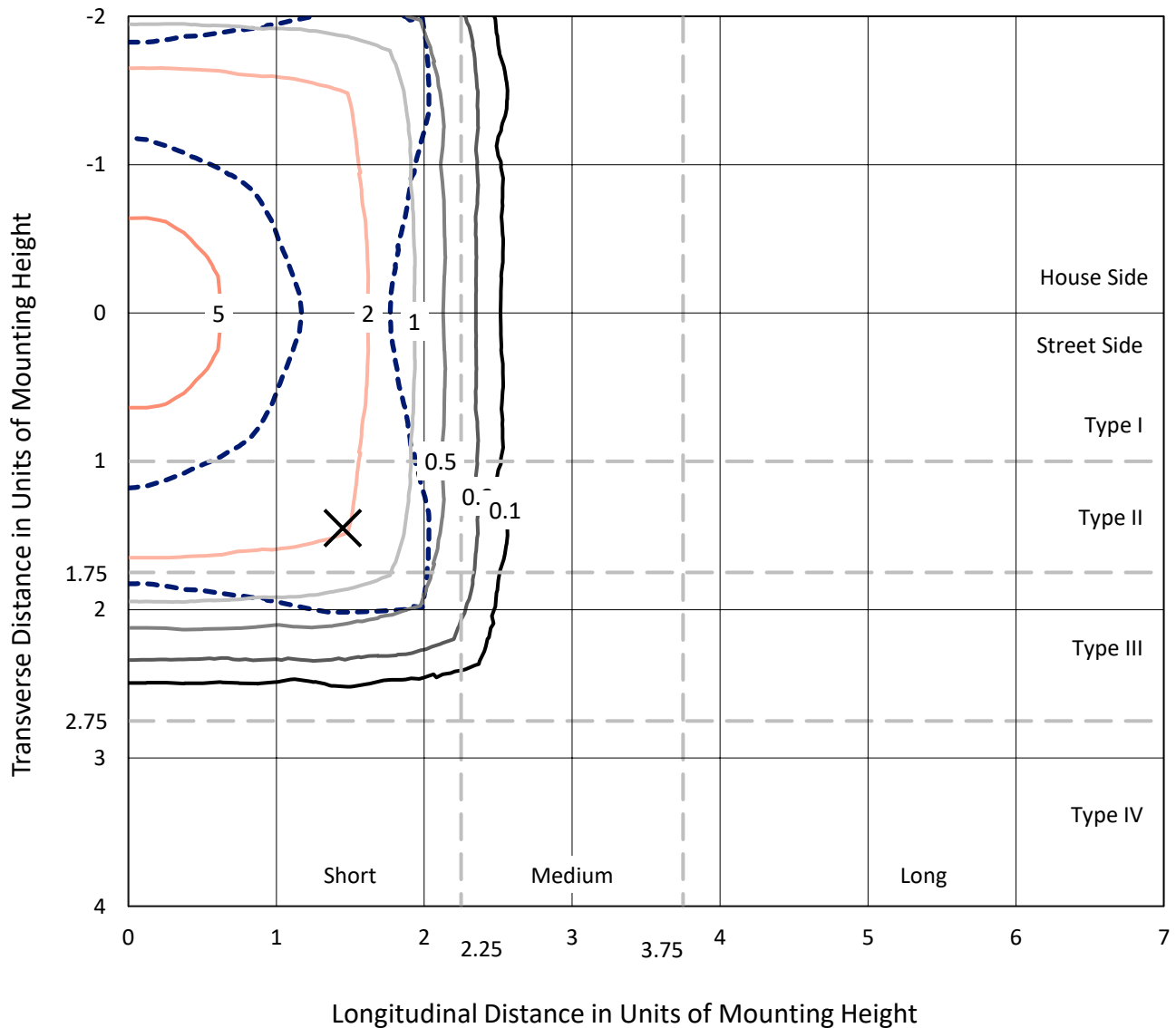


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

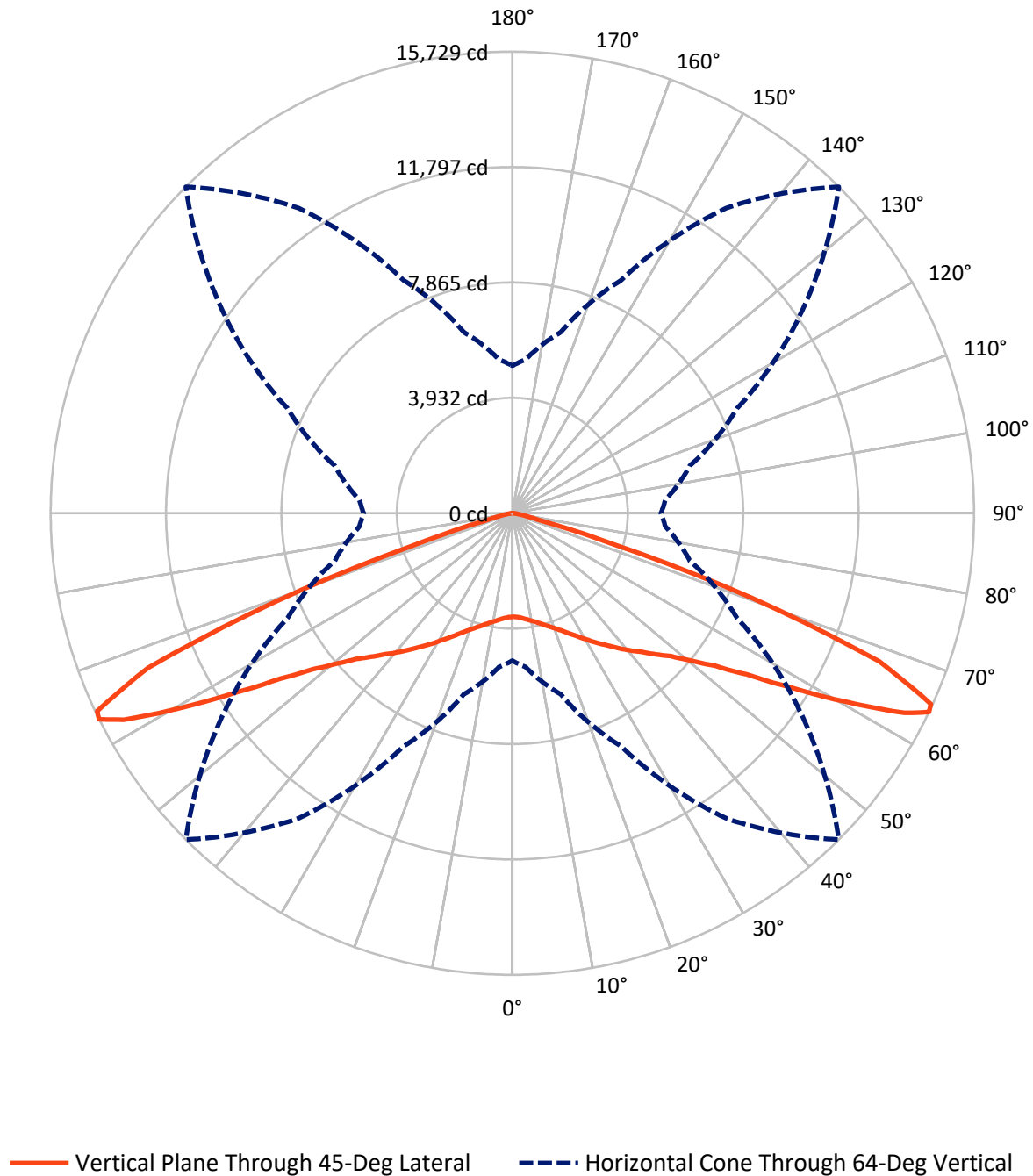


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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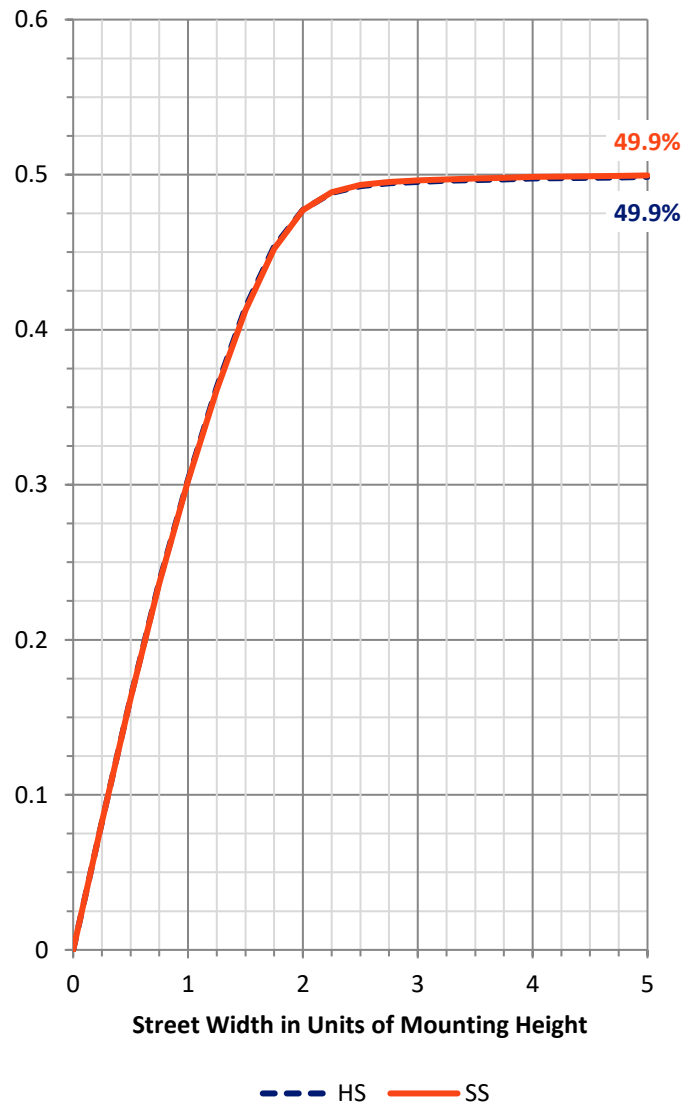
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14599.0	0.0	14599.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14599.0	0.0	14599.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29198.0	0.0	29198.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.7	1.2
10°-20°	1118.3	3.8
20°-30°	2113.4	7.2
30°-40°	3500.0	12.0
40°-50°	5464.0	18.7
50°-60°	8447.3	28.9
60°-70°	7284.0	24.9
70°-80°	825.5	2.8
80°-90°	98.9	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°	29198.0	100.0
0°-180°	29198.0	100.0

Coefficient of Utilization



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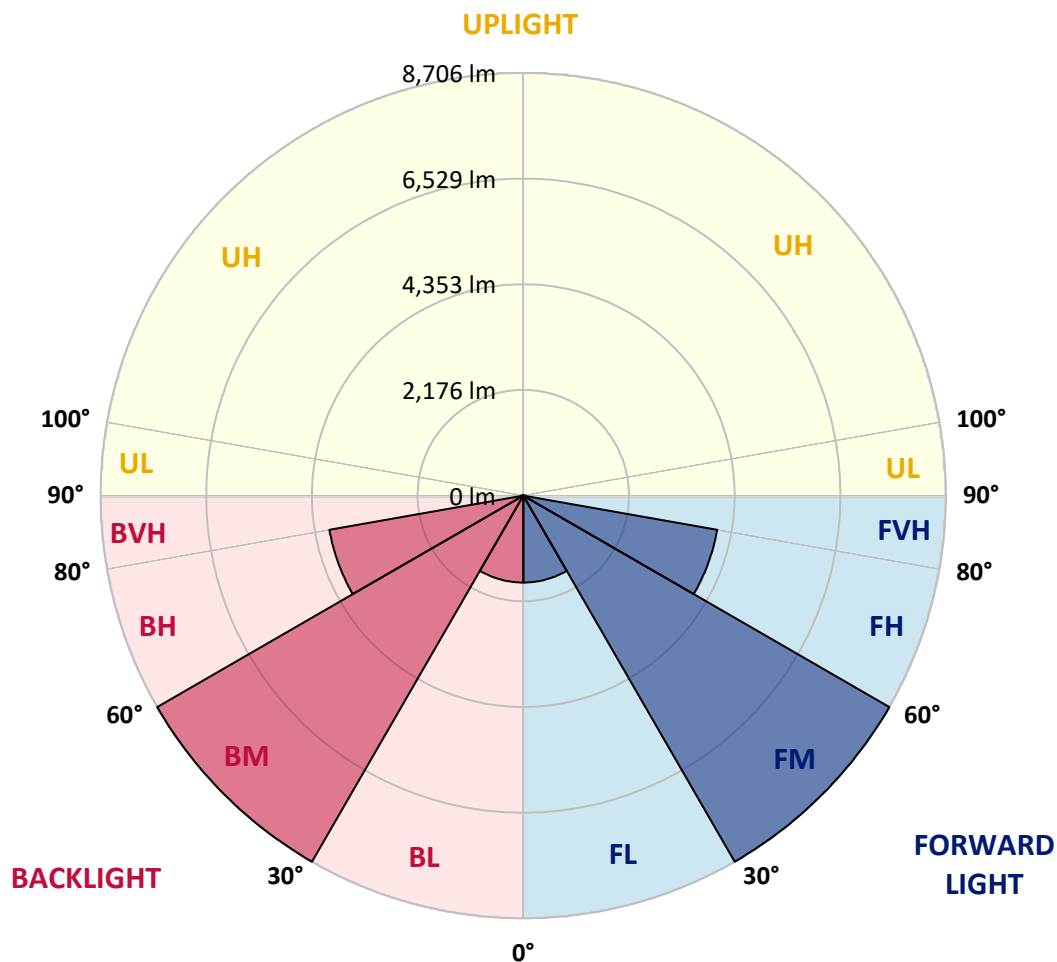
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1789.2	6.1			
FM	(30°-60°)	8705.6	29.8			
FH	(60°-80°)	4054.7	13.9			G2/5000
FVH	(80°-90°)	49.5	0.2			G1/100
BL	(0°-30°)	1789.2	6.1	B3/2500		
BM	(30°-60°)	8705.6	29.8	B5		
BH	(60°-80°)	4054.7	13.9	B4/5000		G2/5000
BVH	(80°-90°)	49.5	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°	3529.1	3529.1	3529.1	3529.1	3529.1	3529.1	3529.1	3529.1	3529.1	3529.1	3529.1
2.5°	3543.0	3550.7	3544.5	3543.0	3541.4	3541.4	3541.4	3543.0	3549.2	3553.8	3550.7
5°	3587.8	3594.0	3590.9	3589.4	3587.8	3587.8	3586.3	3584.7	3589.4	3589.4	3587.8
7.5°	3643.5	3651.2	3648.1	3651.2	3652.8	3654.3	3646.6	3640.4	3638.9	3643.5	3640.4
10°	3719.3	3725.5	3727.0	3728.6	3731.7	3730.1	3720.8	3710.0	3708.5	3706.9	3705.4
12.5°	3804.3	3809.0	3810.5	3816.7	3821.4	3822.9	3812.1	3802.8	3787.3	3790.4	3784.2
15°	3900.2	3909.5	3908.0	3917.2	3929.6	3932.7	3921.9	3906.4	3892.5	3884.8	3880.1
17.5°	4017.8	4023.9	4020.9	4030.1	4045.6	4053.3	4044.0	4023.9	4010.0	3993.0	3983.7
20°	4156.9	4167.8	4170.9	4170.9	4184.8	4192.5	4178.6	4172.4	4150.8	4138.4	4130.7
22.5°	4314.7	4319.3	4328.6	4337.9	4351.8	4348.7	4344.1	4334.8	4314.7	4303.9	4291.5
25°	4492.5	4497.2	4520.4	4540.5	4545.1	4542.0	4535.8	4531.2	4512.6	4487.9	4478.6
27.5°	4699.8	4709.0	4740.0	4758.5	4758.5	4760.1	4747.7	4763.2	4723.0	4693.6	4690.5
30°	4959.6	4965.7	4992.0	5010.6	5001.3	4993.6	4990.5	5006.0	4962.7	4910.1	4897.7
32.5°	5216.3	5237.9	5261.1	5301.3	5268.9	5254.9	5251.8	5262.7	5213.2	5154.4	5137.4
35°	5491.6	5507.0	5550.3	5584.3	5555.0	5522.5	5536.4	5570.4	5511.7	5432.8	5429.7
37.5°	5796.2	5810.1	5865.8	5901.4	5879.7	5824.0	5847.2	5887.5	5828.7	5731.3	5711.2
40°	6113.2	6142.6	6212.2	6249.3	6213.8	6139.5	6182.8	6226.1	6173.6	6060.7	6015.8
42.5°	6468.9	6515.3	6615.8	6634.4	6566.4	6465.8	6541.6	6611.2	6574.1	6444.2	6427.2
45°	6884.9	6912.8	7036.5	7076.7	6982.4	6857.1	6951.4	7078.2	7050.4	6900.4	6867.9
47.5°	7350.4	7376.7	7505.1	7565.4	7446.3	7277.7	7447.9	7613.3	7596.3	7435.5	7420.0
50°	7901.0	7907.2	8085.0	8153.0	8034.0	7888.6	8040.2	8245.8	8177.8	7972.1	7969.0
52.5°	8504.1	8511.8	8736.1	8867.5	8801.0	8637.1	8816.5	8941.8	8768.5	8499.5	8479.4
55°	9026.8	9065.5	9371.7	9721.2	9812.4	9693.3	9747.5	9688.7	9261.9	8884.5	8825.8
57.5°	9240.2	9316.0	9781.5	10434.1	11028.0	11204.3	10786.7	10226.9	9458.3	8924.7	8867.5
60°	8719.1	8801.0	9523.2	10762.0	12277.5	13043.0	11869.2	10318.1	9011.3	8261.3	8171.6
62.5°	6982.4	7005.6	8068.0	9990.3	13005.9	14988.5	12325.5	9540.2	7710.8	6691.6	6656.1
64°	5024.5	5262.7	6388.5	8759.3	12687.3	15729.3	12062.6	8450.0	6263.2	5231.7	5064.7
65°	3757.9	3822.9	5149.8	7480.3	12126.0	15673.6	11552.2	7407.6	5186.9	4003.8	3818.3
67.5°	1419.7	1427.4	1900.6	3728.6	8632.5	13485.3	8816.5	4030.1	2185.2	1580.5	1523.3
70°	589.2	600.0	697.5	1254.2	3710.0	8658.7	4251.3	1453.7	799.5	648.0	638.7
72.5°	431.5	437.7	467.0	556.7	1141.3	3555.4	1398.0	617.0	468.6	419.1	414.5
75°	338.7	341.8	363.4	409.8	532.0	985.1	581.5	423.7	357.2	321.7	318.6
77.5°	258.3	266.0	281.5	312.4	357.2	467.0	385.1	317.0	275.3	245.9	241.3
80°	177.8	187.1	216.5	228.9	239.7	303.1	262.9	239.7	215.0	179.4	168.6
82.5°	109.8	116.0	145.4	156.2	151.6	170.1	168.6	171.7	153.1	111.3	103.6
85°	57.2	60.3	78.9	82.0	75.8	69.6	86.6	100.5	94.3	63.4	61.9
87.5°	12.4	13.9	17.0	15.5	17.0	17.0	21.7	32.5	34.0	21.7	20.1
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)