

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: STREETWORKS

Report Number: P316419

Luminaire Tested: **GAN-SA5D-727-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34069 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

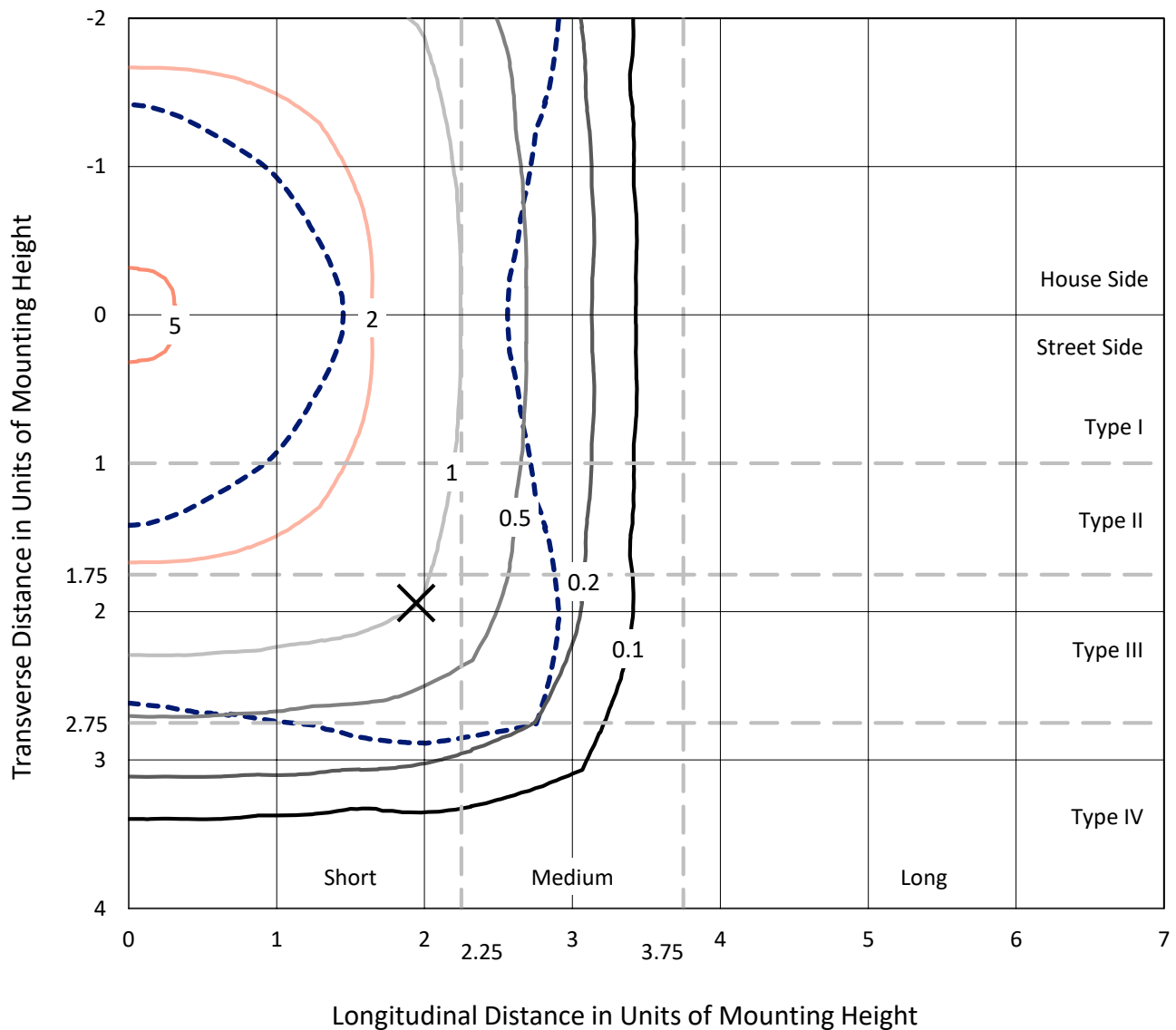
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

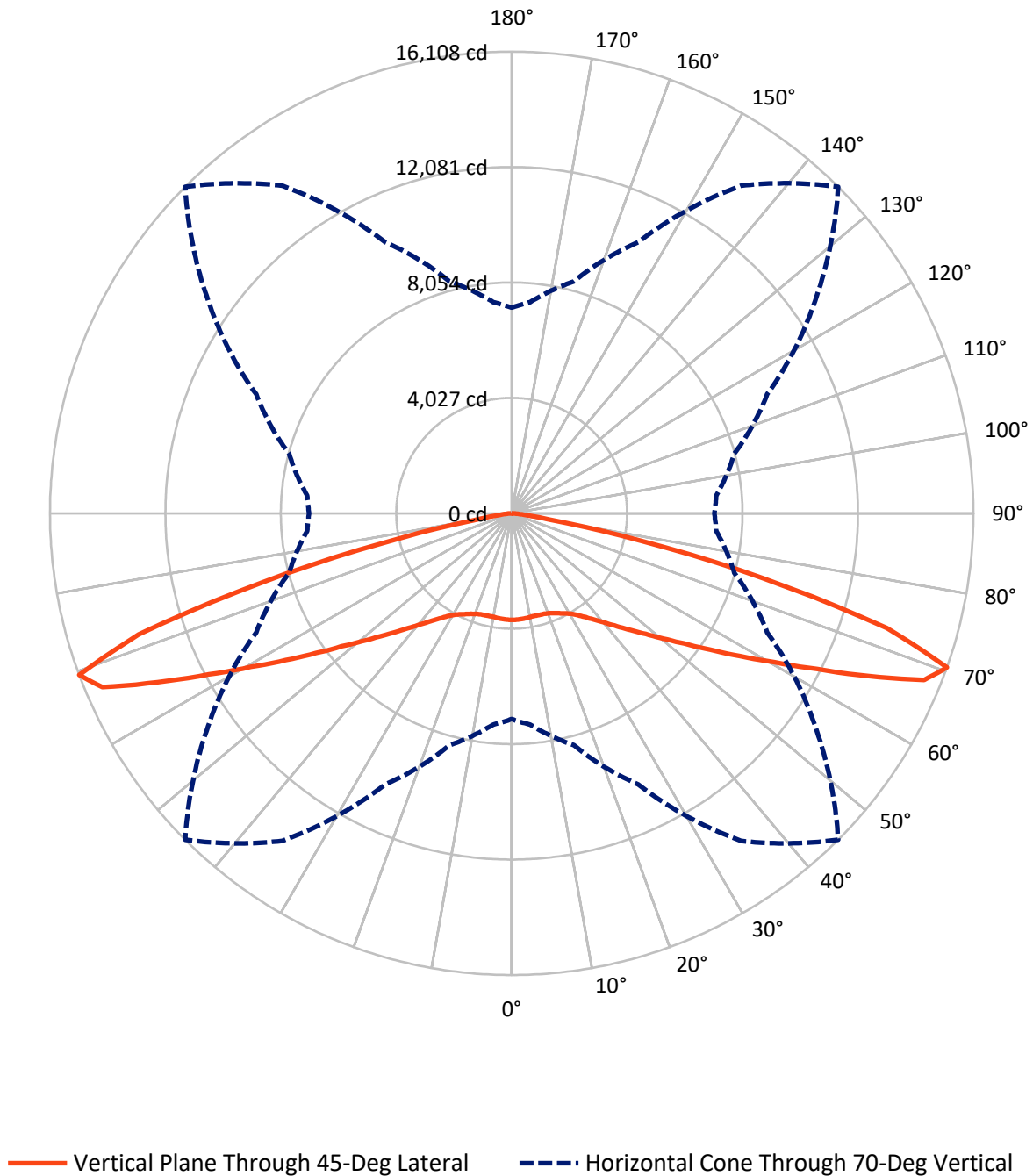
✕ Max cd
- - - 1/2 Max cd



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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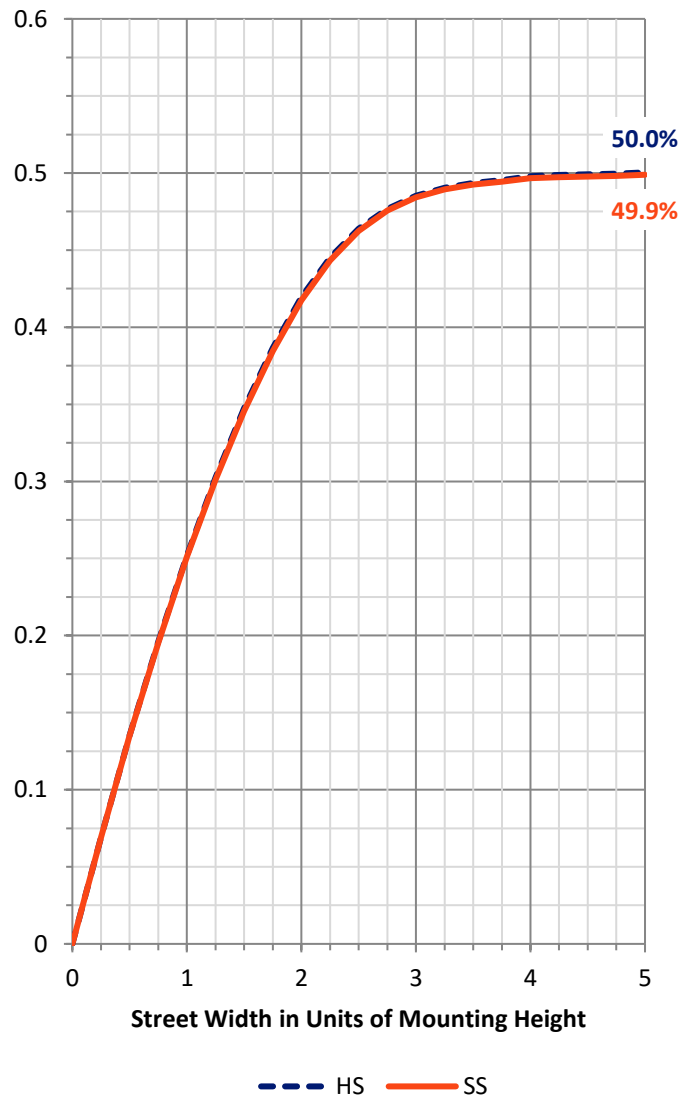
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17034.5	0.0	17034.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17034.5	0.0	17034.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	34069.0	0.0	34069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.4	1.0
10°-20°	1034.6	3.0
20°-30°	1761.2	5.2
30°-40°	2793.2	8.2
40°-50°	4545.4	13.3
50°-60°	7494.6	22.0
60°-70°	11002.2	32.3
70°-80°	4865.2	14.3
80°-90°	220.3	0.6
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°	34069.0	100.0
0°-180°	34069.0	100.0

Coefficient of Utilization



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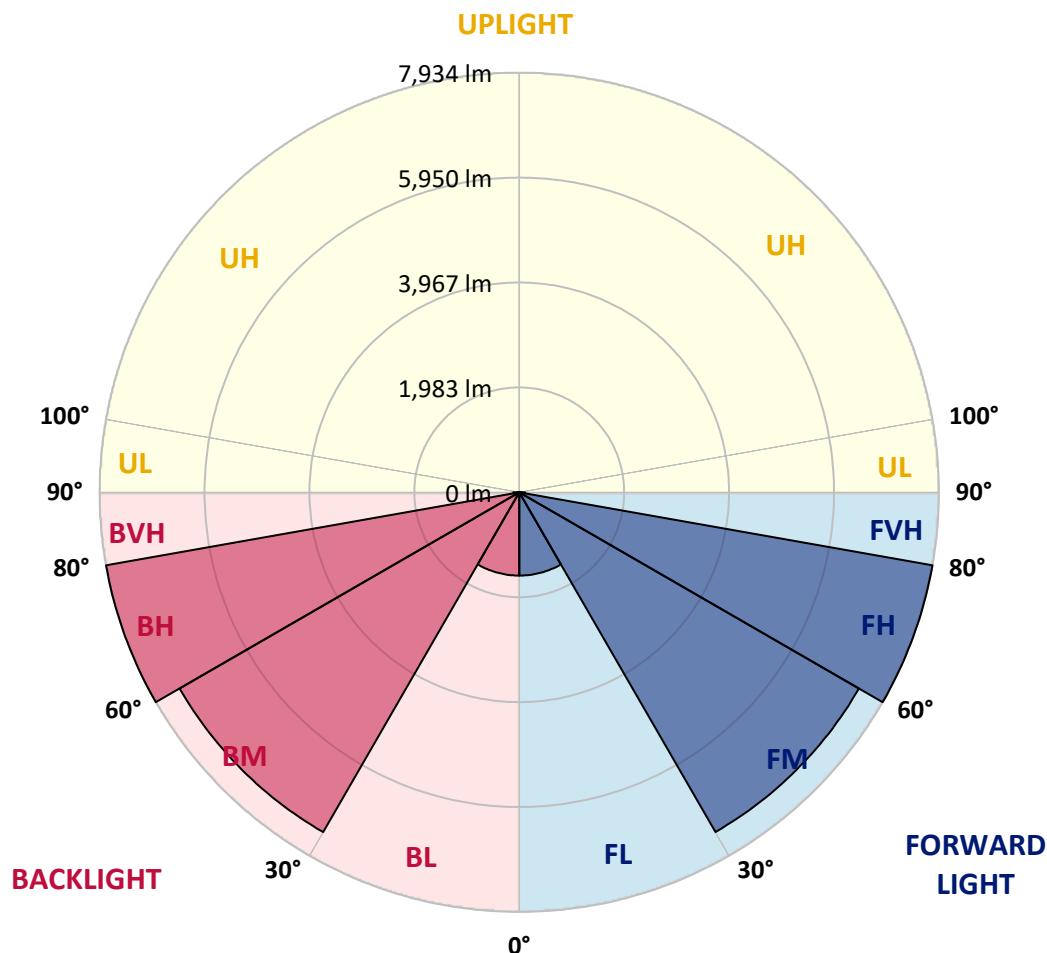
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1574.1	4.6			
FM	(30°-60°)	7416.6	21.8			
FH	(60°-80°)	7933.7	23.3			G4/12000
FVH	(80°-90°)	110.2	0.3			G2/225
BL	(0°-30°)	1574.1	4.6	B3/2500		
BM	(30°-60°)	7416.6	21.8	B4/8500		
BH	(60°-80°)	7933.7	23.3	B5		G4/12000
BVH	(80°-90°)	110.2	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3720.9	3720.9	3720.9	3720.9	3720.9	3720.9	3720.9	3720.9	3720.9	3720.9	3720.9
2.5°	3715.2	3711.8	3719.7	3718.6	3711.8	3713.0	3713.0	3716.4	3716.4	3714.1	3714.1
5°	3701.7	3699.4	3708.5	3708.5	3701.7	3704.0	3706.2	3709.6	3708.5	3706.2	3705.1
7.5°	3684.8	3683.7	3692.7	3692.7	3688.2	3690.4	3688.2	3689.3	3687.0	3684.8	3681.4
10°	3656.6	3658.9	3666.7	3669.0	3669.0	3670.1	3667.9	3662.2	3658.9	3655.5	3652.1
12.5°	3630.7	3629.5	3640.8	3646.4	3655.5	3665.6	3658.9	3643.1	3636.3	3629.5	3627.3
15°	3613.7	3614.9	3626.2	3636.3	3652.1	3673.5	3665.6	3640.8	3627.3	3619.4	3617.1
17.5°	3610.4	3612.6	3627.3	3645.3	3662.2	3685.9	3681.4	3656.6	3634.0	3619.4	3616.0
20°	3618.3	3619.4	3641.9	3667.9	3697.2	3719.7	3709.6	3682.5	3652.1	3629.5	3623.9
22.5°	3632.9	3637.4	3665.6	3706.2	3751.3	3781.8	3769.3	3723.1	3675.8	3647.6	3639.7
25°	3679.1	3680.3	3718.6	3773.9	3828.0	3862.9	3848.3	3782.9	3722.0	3690.4	3680.3
27.5°	3775.0	3778.4	3816.7	3881.0	3927.2	3949.8	3940.7	3887.7	3835.9	3802.0	3805.4
30°	3913.7	3918.2	3961.0	4032.1	4060.3	4065.9	4063.6	4038.8	3991.5	3946.4	3949.8
32.5°	4082.8	4085.1	4142.6	4206.8	4229.4	4233.9	4229.4	4206.8	4150.5	4089.6	4093.0
35°	4300.4	4307.2	4362.4	4424.4	4442.5	4451.5	4443.6	4414.3	4355.7	4295.9	4293.7
37.5°	4568.8	4569.9	4627.4	4691.7	4714.2	4716.5	4707.5	4688.3	4615.0	4560.9	4557.5
40°	4880.0	4884.5	4952.1	5020.9	5029.9	5019.8	5032.2	5020.9	4945.4	4883.4	4893.5
42.5°	5258.8	5269.0	5350.2	5417.8	5391.9	5386.2	5394.1	5397.5	5336.6	5261.1	5254.3
45°	5699.7	5708.7	5810.2	5864.3	5847.4	5810.2	5826.0	5853.0	5768.5	5674.9	5683.9
47.5°	6202.6	6225.1	6333.4	6384.1	6342.4	6291.6	6322.1	6362.7	6263.5	6147.3	6141.7
50°	6761.8	6790.0	6934.3	7005.4	6963.7	6870.1	6920.8	6947.9	6804.7	6654.7	6642.3
52.5°	7358.3	7386.5	7568.0	7714.6	7687.5	7542.1	7613.1	7584.9	7420.3	7218.5	7202.7
55°	8033.7	8045.0	8241.2	8477.9	8505.0	8397.9	8393.4	8347.1	8103.6	7870.2	7858.9
57.5°	8728.2	8736.1	8989.8	9269.5	9396.9	9396.9	9270.6	9172.5	8848.9	8578.3	8550.1
60°	9478.1	9506.2	9787.0	10167.0	10464.7	10552.6	10329.3	10062.1	9710.3	9380.0	9347.3
62.5°	10145.6	10178.3	10607.8	11173.9	11651.9	11972.2	11426.4	10991.2	10350.8	9820.8	9758.8
65°	10230.1	10318.1	10943.9	11968.8	13038.8	13678.1	12631.8	11559.5	10392.5	9656.2	9593.1
67.5°	9342.8	9491.6	10337.2	11932.7	14143.8	15516.0	13401.9	11234.8	9643.8	8829.7	8759.8
70°	7179.0	7395.5	8370.8	10437.6	13953.2	16108.0	12919.3	9835.5	8040.5	7164.4	7066.3
72.5°	3938.5	4027.6	4904.8	7147.4	11186.3	13688.3	10775.9	7272.6	5332.1	4338.8	4174.1
75°	1249.3	1280.9	1727.4	2924.8	6327.7	9066.5	6845.3	3569.8	1965.3	1448.9	1432.0
77.5°	554.7	558.1	624.7	853.5	2179.5	4593.6	2618.1	971.9	669.8	585.2	604.4
80°	350.7	350.7	386.7	422.8	593.1	1333.9	708.1	462.3	394.6	366.4	374.3
82.5°	168.0	186.0	251.4	270.6	325.9	448.8	363.1	302.2	263.8	196.2	182.7
85°	110.5	92.5	159.0	179.3	189.4	215.4	210.8	199.6	172.5	98.1	109.4
87.5°	49.6	47.4	82.3	75.5	71.0	54.1	81.2	100.4	97.0	48.5	48.5
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)