

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: P316412

Luminaire Tested: **GAN-SA8C-727-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316412
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-SA8C-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49800 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

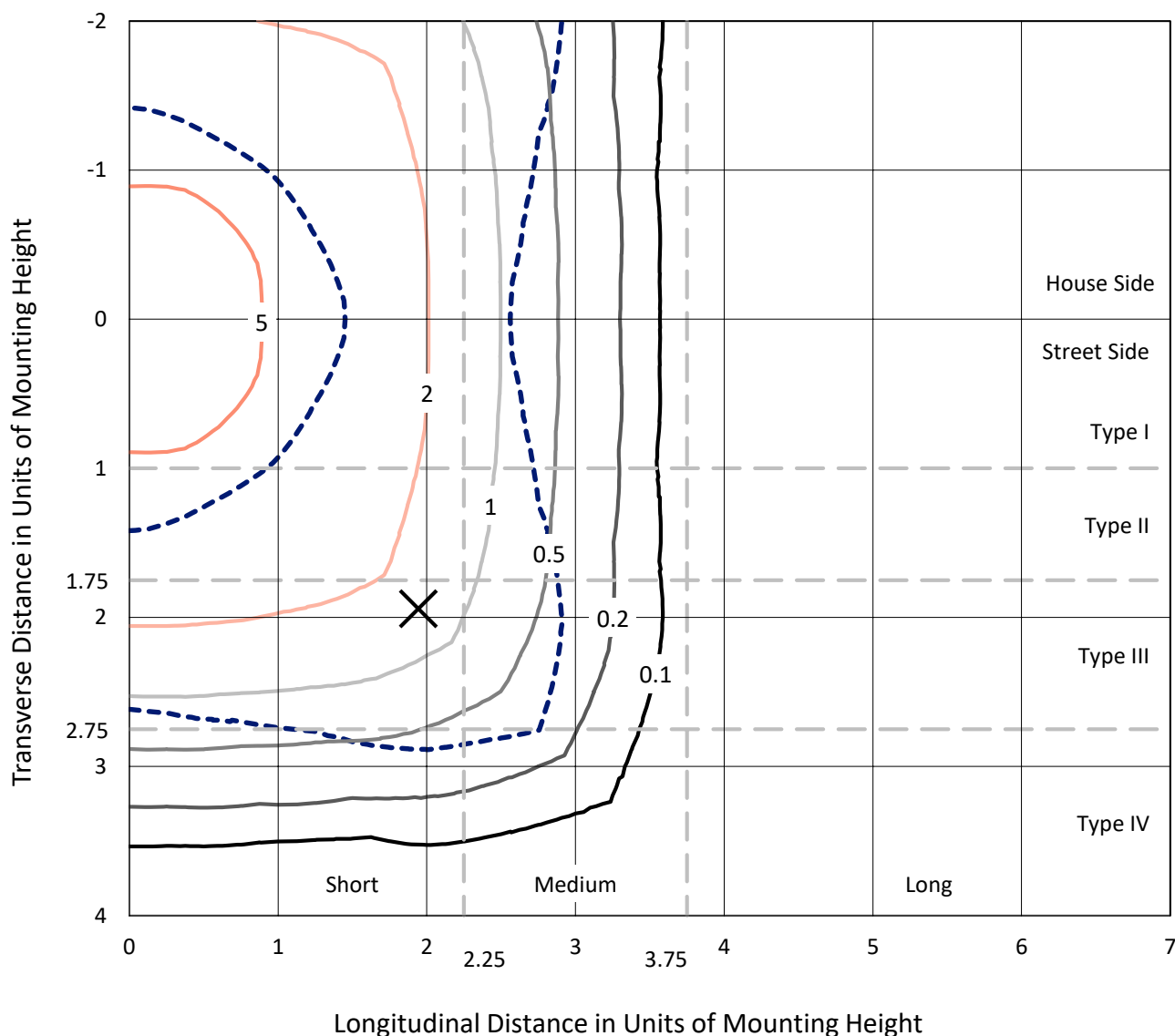
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

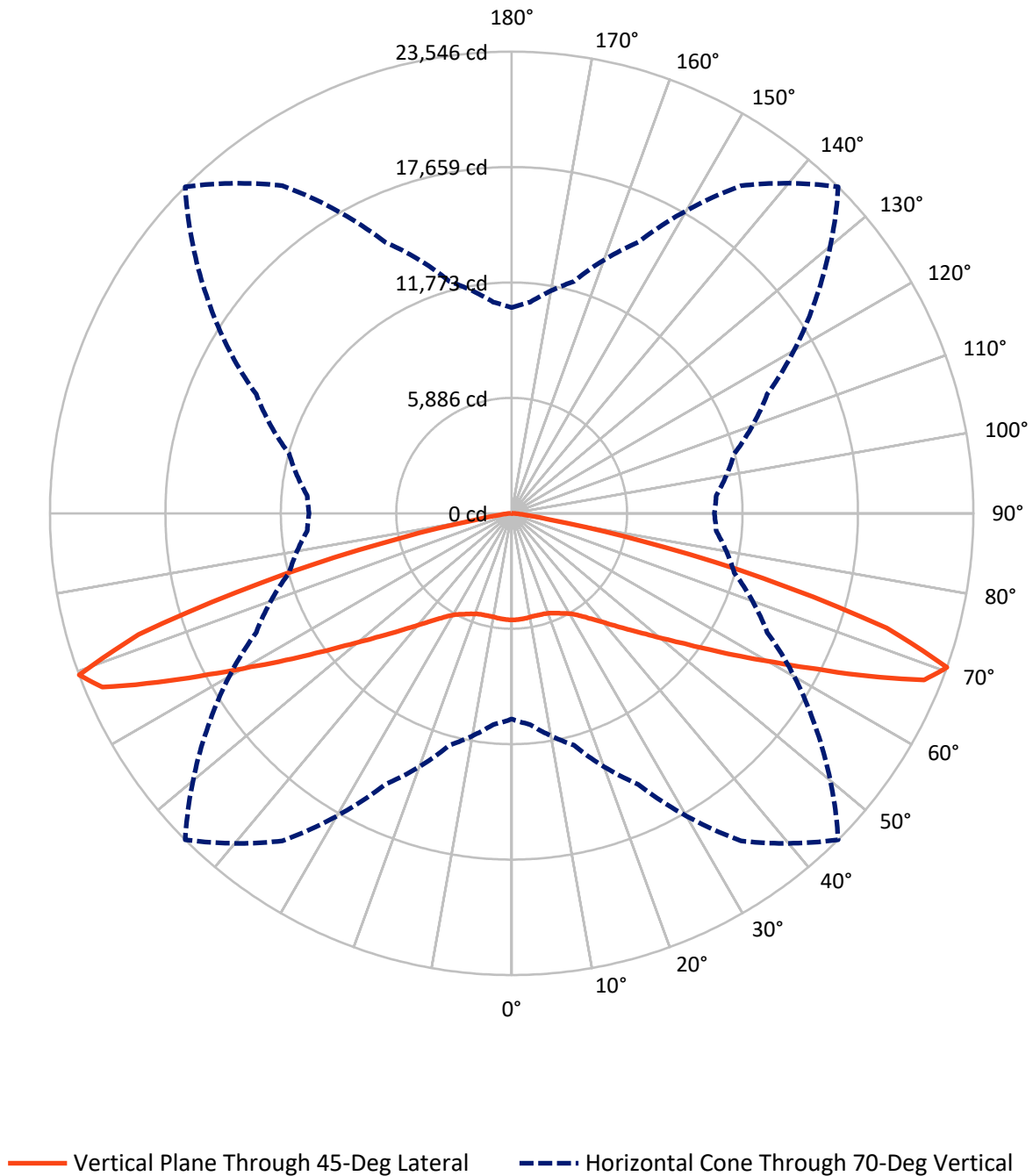
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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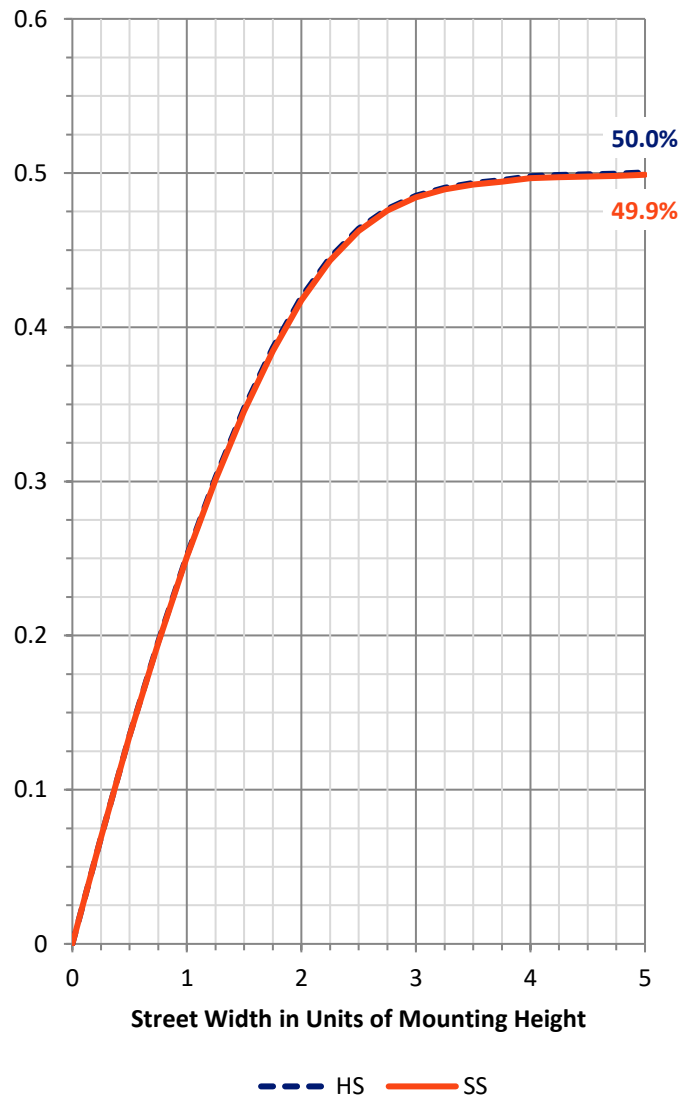
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24900.0	0.0	24900.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24900.0	0.0	24900.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	49800.0	0.0	49800.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.1	1.0
10°-20°	1512.3	3.0
20°-30°	2574.4	5.2
30°-40°	4082.9	8.2
40°-50°	6644.2	13.3
50°-60°	10955.1	22.0
60°-70°	16082.4	32.3
70°-80°	7111.6	14.3
80°-90°	322.0	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°	49800.0	100.0
0°-180°	49800.0	100.0

Coefficient of Utilization



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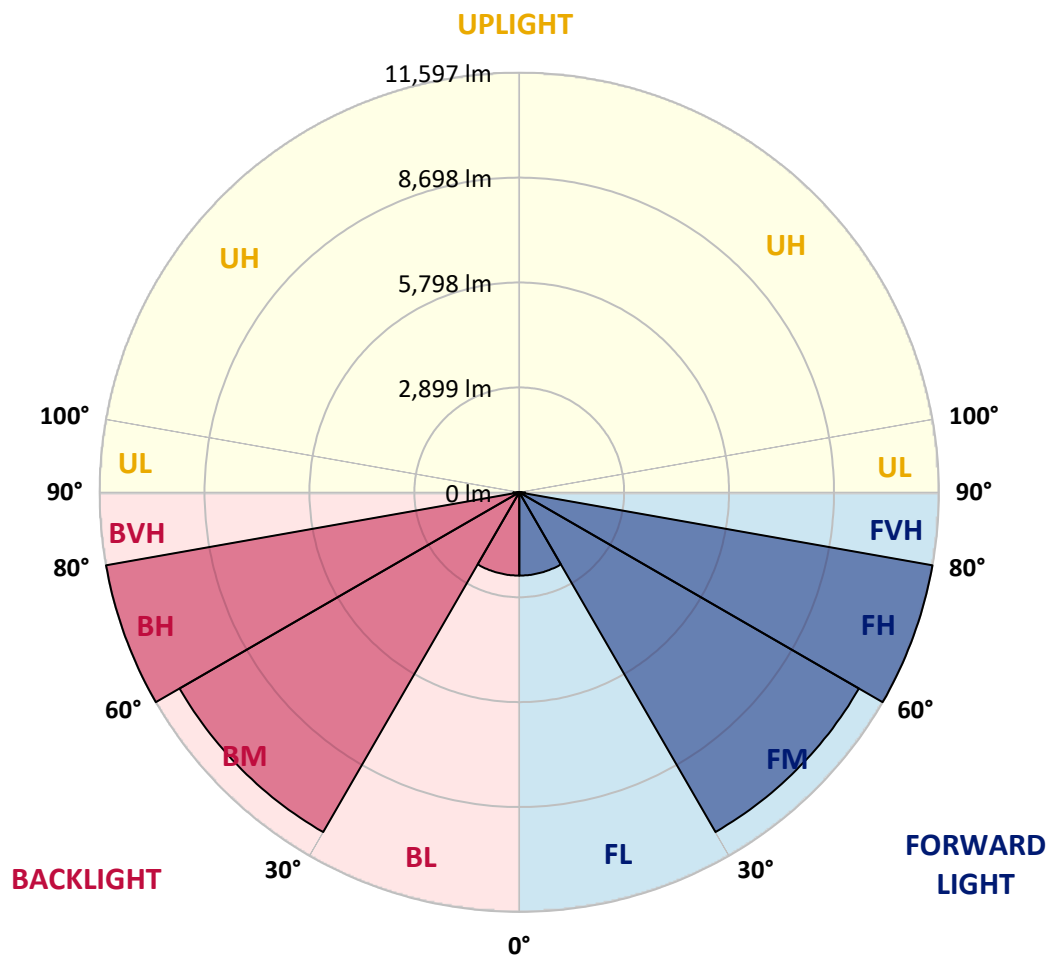
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2300.9	4.6			
FM	(30°-60°)	10841.1	21.8			
FH	(60°-80°)	11597.0	23.3			G4/12000
FVH	(80°-90°)	161.0	0.3			G2/225
BL	(0°-30°)	2300.9	4.6	B3/2500		
BM	(30°-60°)	10841.1	21.8	B5		
BH	(60°-80°)	11597.0	23.3	B5		G4/12000
BVH	(80°-90°)	161.0	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°	5438.9	5438.9	5438.9	5438.9	5438.9	5438.9	5438.9	5438.9	5438.9	5438.9	5438.9
2.5°	5430.7	5425.7	5437.3	5435.6	5425.7	5427.4	5427.4	5432.3	5432.3	5429.0	5429.0
5°	5410.9	5407.6	5420.8	5420.8	5410.9	5414.2	5417.5	5422.5	5420.8	5417.5	5415.9
7.5°	5386.2	5384.5	5397.7	5397.7	5391.1	5394.4	5391.1	5392.8	5389.5	5386.2	5381.2
10°	5345.0	5348.3	5359.8	5363.1	5363.1	5364.8	5361.5	5353.2	5348.3	5343.3	5338.4
12.5°	5307.1	5305.4	5321.9	5330.2	5343.3	5358.2	5348.3	5325.2	5315.3	5305.4	5302.1
15°	5282.4	5284.0	5300.5	5315.3	5338.4	5369.7	5358.2	5321.9	5302.1	5290.6	5287.3
17.5°	5277.4	5280.7	5302.1	5328.5	5353.2	5387.8	5381.2	5345.0	5312.0	5290.6	5285.7
20°	5289.0	5290.6	5323.6	5361.5	5404.3	5437.3	5422.5	5382.9	5338.4	5305.4	5297.2
22.5°	5310.4	5317.0	5358.2	5417.5	5483.4	5527.9	5509.8	5442.2	5373.0	5331.8	5320.3
25°	5378.0	5379.6	5435.6	5516.4	5595.5	5646.6	5625.2	5529.6	5440.6	5394.4	5379.6
27.5°	5518.0	5523.0	5579.0	5673.0	5740.5	5773.5	5760.3	5682.9	5607.0	5557.6	5562.5
30°	5720.8	5727.4	5790.0	5893.8	5935.0	5943.3	5940.0	5903.7	5834.5	5768.6	5773.5
32.5°	5968.0	5971.3	6055.3	6149.3	6182.3	6188.8	6182.3	6149.3	6066.9	5977.9	5982.8
35°	6286.1	6296.0	6376.7	6467.4	6493.8	6506.9	6495.4	6452.6	6366.9	6279.5	6276.2
37.5°	6678.4	6680.0	6764.1	6858.0	6891.0	6894.3	6881.1	6853.1	6745.9	6666.8	6661.9
40°	7133.2	7139.8	7238.7	7339.3	7352.5	7337.6	7355.7	7339.3	7228.8	7138.2	7153.0
42.5°	7687.0	7701.9	7820.5	7919.4	7881.5	7873.3	7884.8	7889.8	7800.8	7690.3	7680.4
45°	8331.5	8344.6	8493.0	8572.1	8547.4	8493.0	8516.1	8555.6	8432.0	8295.2	8308.4
47.5°	9066.5	9099.5	9257.7	9331.9	9270.9	9196.7	9241.2	9300.6	9155.5	8985.8	8977.5
50°	9884.0	9925.2	10136.2	10240.0	10179.0	10042.3	10116.4	10156.0	9946.7	9727.5	9709.3
52.5°	10755.9	10797.1	11062.5	11276.7	11237.2	11024.6	11128.4	11087.2	10846.6	10551.5	10528.5
55°	11743.2	11759.6	12046.4	12392.5	12432.1	12275.5	12268.9	12201.3	11845.3	11504.2	11487.7
57.5°	12758.4	12770.0	13140.8	13549.5	13735.8	13735.8	13551.2	13407.8	12934.8	12539.2	12498.0
60°	13854.5	13895.7	14306.0	14861.5	15296.6	15425.1	15098.8	14708.2	14194.0	13711.1	13663.3
62.5°	14830.2	14878.0	15505.9	16333.3	17032.1	17500.2	16702.5	16066.3	15130.1	14355.5	14264.8
65°	14953.8	15082.3	15997.1	17495.2	19059.3	19993.9	18464.4	16897.0	15191.1	14114.9	14022.6
67.5°	13656.7	13874.2	15110.4	17442.5	20674.5	22680.4	19590.1	16422.3	14096.7	12906.8	12804.6
70°	10493.8	10810.3	12236.0	15257.0	20396.0	23545.6	18884.6	14376.9	11753.0	10472.4	10329.0
72.5°	5757.0	5887.2	7169.5	10447.7	16351.4	20008.7	15751.5	10630.6	7794.2	6342.1	6101.5
75°	1826.2	1872.3	2525.0	4275.3	9249.5	13252.9	10006.0	5218.1	2872.7	2117.9	2093.2
77.5°	810.9	815.8	913.1	1247.7	3185.9	6714.6	3827.0	1420.7	979.0	855.4	883.4
80°	512.6	512.6	565.3	618.1	866.9	1949.8	1035.0	675.7	576.9	535.7	547.2
82.5°	245.6	271.9	367.5	395.6	476.3	656.0	530.7	441.7	385.7	286.8	267.0
85°	161.5	135.1	232.4	262.1	276.9	314.8	308.2	291.7	252.2	143.4	159.9
87.5°	72.5	69.2	120.3	110.4	103.8	79.1	118.7	146.7	141.7	70.9	70.9
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)