

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: P317057

Luminaire Tested: **GAN-SA3D-727-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-727-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20251 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 191
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

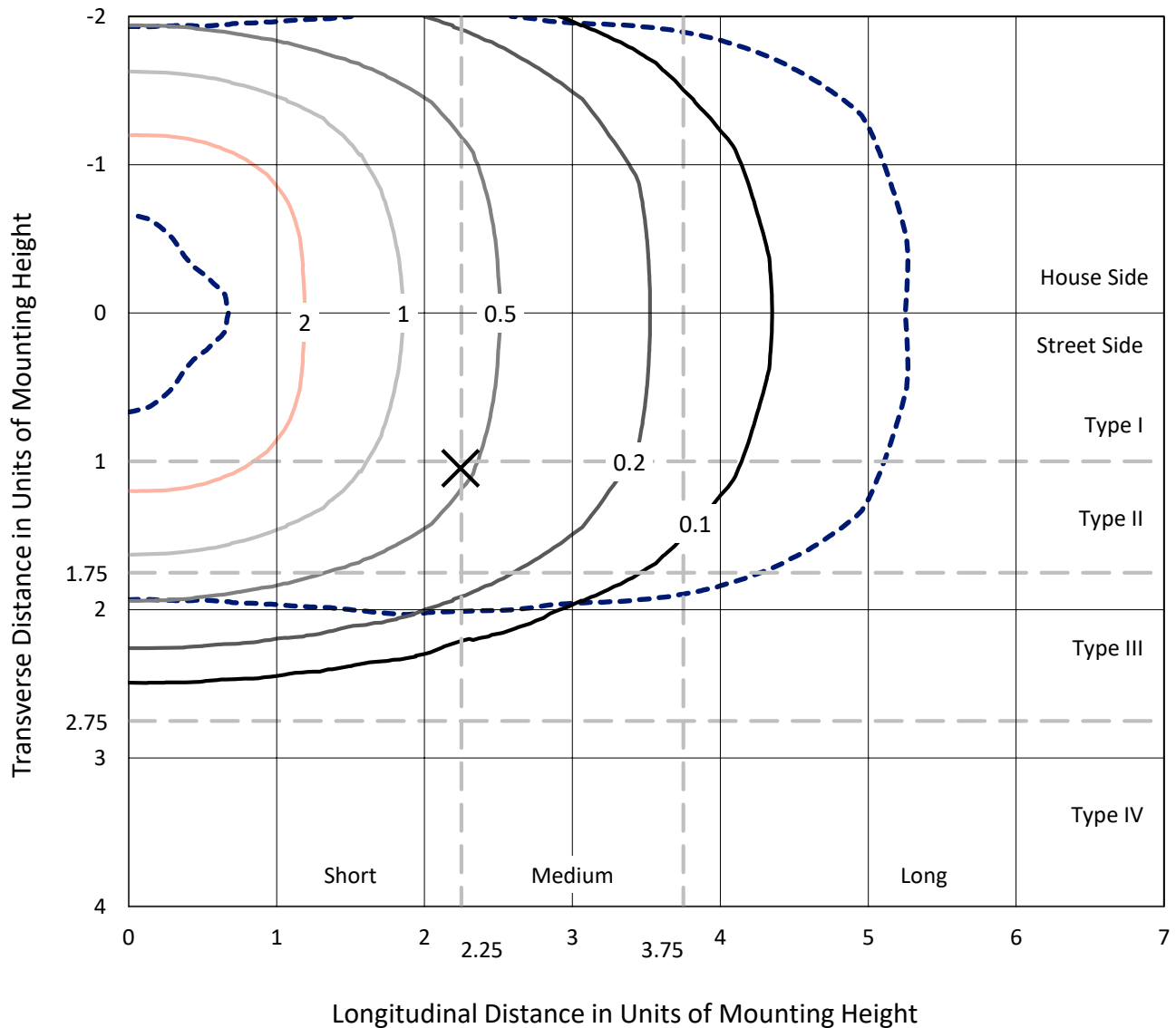


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Iso-Footcandle Lines of Horizontal Illumination

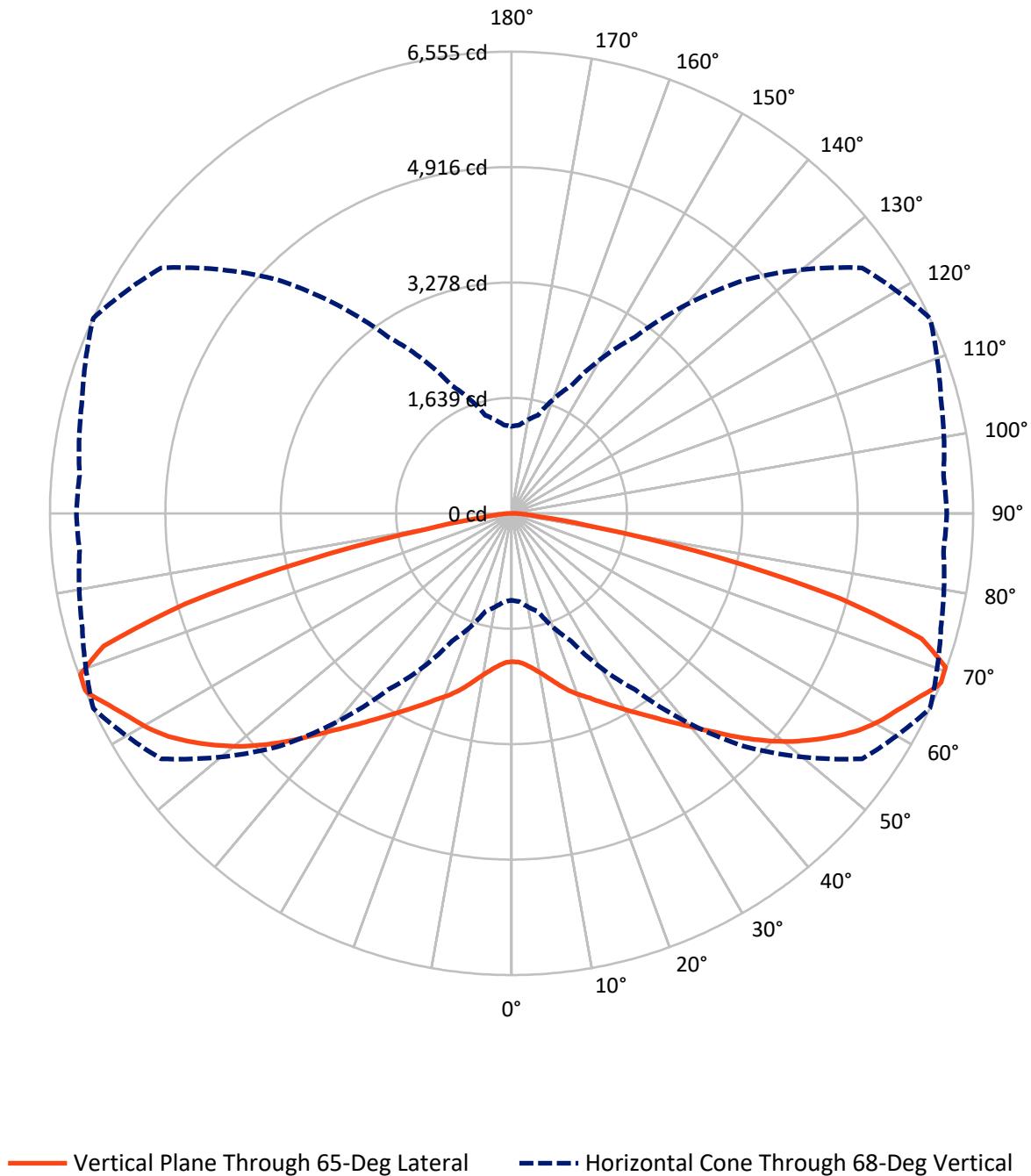
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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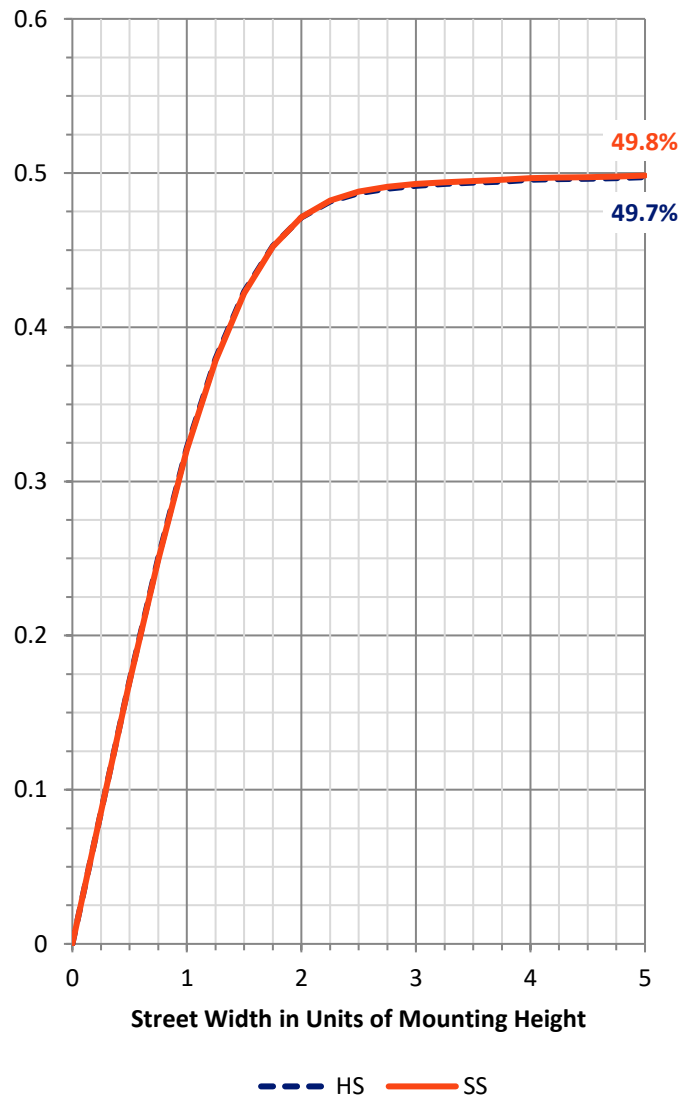
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10125.5	0.0	10125.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10125.5	0.0	10125.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20251.0	0.0	20251.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.2	1.0
10°-20°	690.3	3.4
20°-30°	1345.9	6.6
30°-40°	2261.0	11.2
40°-50°	3562.5	17.6
50°-60°	4764.3	23.5
60°-70°	4631.5	22.9
70°-80°	2531.8	12.5
80°-90°	257.5	1.3
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°	20251.0	100.0
0°-180°	20251.0	100.0

Coefficient of Utilization



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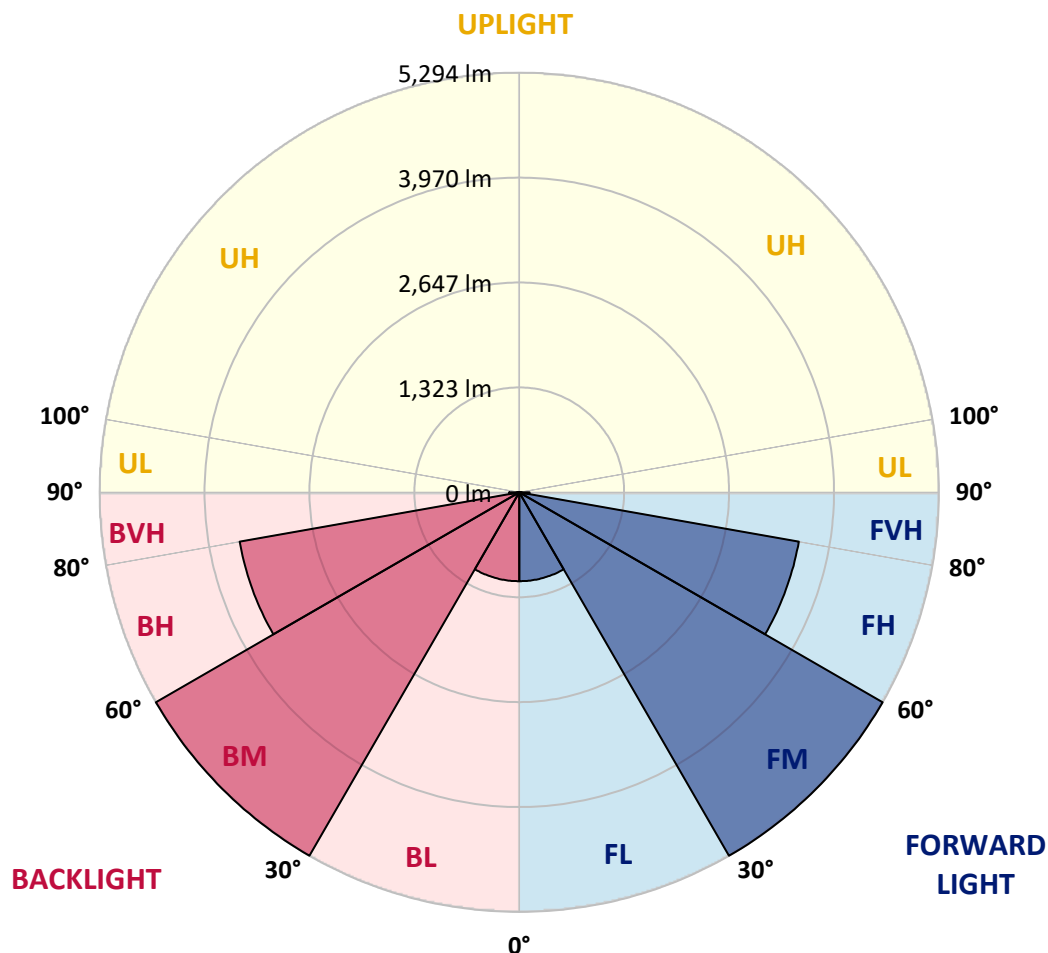
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1121.2	5.5			
FM	(30°-60°)	5293.9	26.1			
FH	(60°-80°)	3581.7	17.7			G2/5000
FVH	(80°-90°)	128.7	0.6			G2/225
BL	(0°-30°)	1121.2	5.5	B3/2500		
BM	(30°-60°)	5293.9	26.1	B4/8500		
BH	(60°-80°)	3581.7	17.7	B4/5000		G4/5000
BVH	(80°-90°)	128.7	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2105.6	2105.6	2105.6	2105.6	2105.6	2105.6	2105.6	2105.6	2105.6	2105.6	2105.6
2.5°	2090.7	2091.4	2094.8	2098.8	2102.2	2111.1	2113.1	2116.5	2117.8	2121.2	2121.2
5°	2072.4	2073.7	2081.9	2092.7	2104.9	2126.7	2142.3	2159.9	2168.8	2178.3	2177.6
7.5°	2070.3	2073.7	2085.3	2102.9	2123.3	2159.3	2191.9	2227.2	2250.9	2272.7	2271.3
10°	2091.4	2096.8	2113.1	2139.6	2170.1	2214.9	2263.2	2310.7	2352.1	2385.4	2386.7
12.5°	2123.3	2130.1	2155.9	2195.9	2242.1	2299.8	2356.9	2410.5	2467.5	2517.1	2521.2
15°	2165.4	2174.2	2212.9	2272.7	2343.3	2411.9	2473.0	2528.0	2593.8	2662.4	2669.2
17.5°	2227.9	2240.1	2291.0	2371.8	2464.8	2540.2	2604.0	2645.4	2700.4	2771.1	2784.0
20°	2322.9	2338.5	2403.0	2499.5	2612.9	2691.6	2740.5	2749.3	2776.5	2839.6	2854.6
22.5°	2446.5	2460.1	2532.0	2646.8	2773.8	2859.3	2885.1	2849.8	2847.1	2898.0	2912.3
25°	2584.3	2596.6	2680.1	2809.1	2945.6	3040.0	3039.3	2970.7	2923.2	2962.5	2977.5
27.5°	2739.1	2758.2	2838.3	2974.1	3120.1	3213.1	3207.7	3101.7	3011.4	3021.6	3034.5
30°	2917.1	2938.1	3016.2	3154.0	3300.0	3391.0	3384.2	3244.3	3108.5	3081.4	3090.9
32.5°	3137.7	3162.9	3236.9	3372.7	3501.7	3583.8	3564.2	3399.2	3225.3	3166.2	3175.1
35°	3403.2	3418.2	3496.3	3630.0	3734.6	3790.9	3749.5	3578.4	3373.3	3302.1	3302.1
37.5°	3672.1	3683.7	3771.3	3900.9	4002.1	4032.0	3951.2	3774.6	3566.9	3465.7	3467.7
40°	3930.1	3961.4	4059.8	4192.9	4292.7	4300.9	4193.6	3998.7	3782.1	3677.5	3689.8
42.5°	4199.7	4230.3	4347.7	4498.5	4586.8	4600.3	4474.7	4250.0	4025.2	3940.3	3953.9
45°	4440.1	4464.5	4600.3	4775.5	4885.5	4920.8	4772.1	4537.9	4288.0	4205.1	4208.5
47.5°	4607.8	4639.7	4789.1	4995.5	5155.8	5210.1	5064.1	4818.3	4546.7	4446.2	4455.0
50°	4759.9	4776.9	4928.3	5153.7	5357.4	5469.5	5344.5	5095.3	4808.1	4701.5	4711.0
52.5°	4844.8	4866.5	5013.2	5248.1	5489.2	5669.8	5593.7	5344.5	5060.7	4956.8	4968.4
55°	4785.7	4802.0	4977.9	5269.2	5570.6	5793.4	5804.9	5588.3	5308.5	5217.6	5250.1
57.5°	4516.8	4537.2	4751.8	5133.4	5580.8	5876.9	5963.8	5814.4	5540.1	5466.1	5485.1
60°	4096.5	4109.4	4338.2	4767.4	5382.6	5911.5	6065.0	5999.1	5766.9	5692.9	5718.7
62.5°	3347.5	3366.6	3640.2	4215.3	4963.6	5809.0	6162.7	6151.9	5978.1	5910.2	5933.2
65°	2288.3	2321.6	2624.4	3351.6	4317.9	5495.3	6251.7	6329.8	6164.8	6079.2	6109.8
67.5°	1381.8	1406.2	1625.6	2212.9	3304.1	4862.4	6160.0	6532.1	6296.5	6158.7	6183.8
68°	1235.1	1257.5	1440.9	1997.0	3056.2	4683.8	6076.5	6555.2	6310.8	6157.3	6179.7
70°	746.2	761.2	884.1	1234.5	2037.7	3715.6	5506.8	6536.2	6401.8	6176.3	6189.2
72.5°	486.2	490.9	511.3	633.5	1040.9	2077.8	4133.2	6090.8	6538.2	6287.0	6285.0
75°	404.0	401.3	403.3	417.6	513.3	911.2	2415.3	4811.5	6232.7	6112.5	6069.7
77.5°	341.5	339.5	338.8	339.5	343.6	440.0	1048.4	2997.2	4769.4	5407.0	5445.0
80°	276.4	273.6	282.5	278.4	266.2	273.6	439.3	1246.7	2248.2	2418.7	2266.6
82.5°	201.0	190.8	228.8	218.0	207.8	192.8	242.4	402.7	536.4	368.0	258.7
85°	154.8	144.0	173.8	167.0	142.6	98.5	144.0	196.9	217.3	124.3	97.8
87.5°	63.1	66.5	125.6	99.1	83.5	47.5	59.1	78.8	105.9	53.0	40.7
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)