

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: P317263

Luminaire Tested: **GAN-SA9D-827-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317263
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-SA9D-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 52125 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 575
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

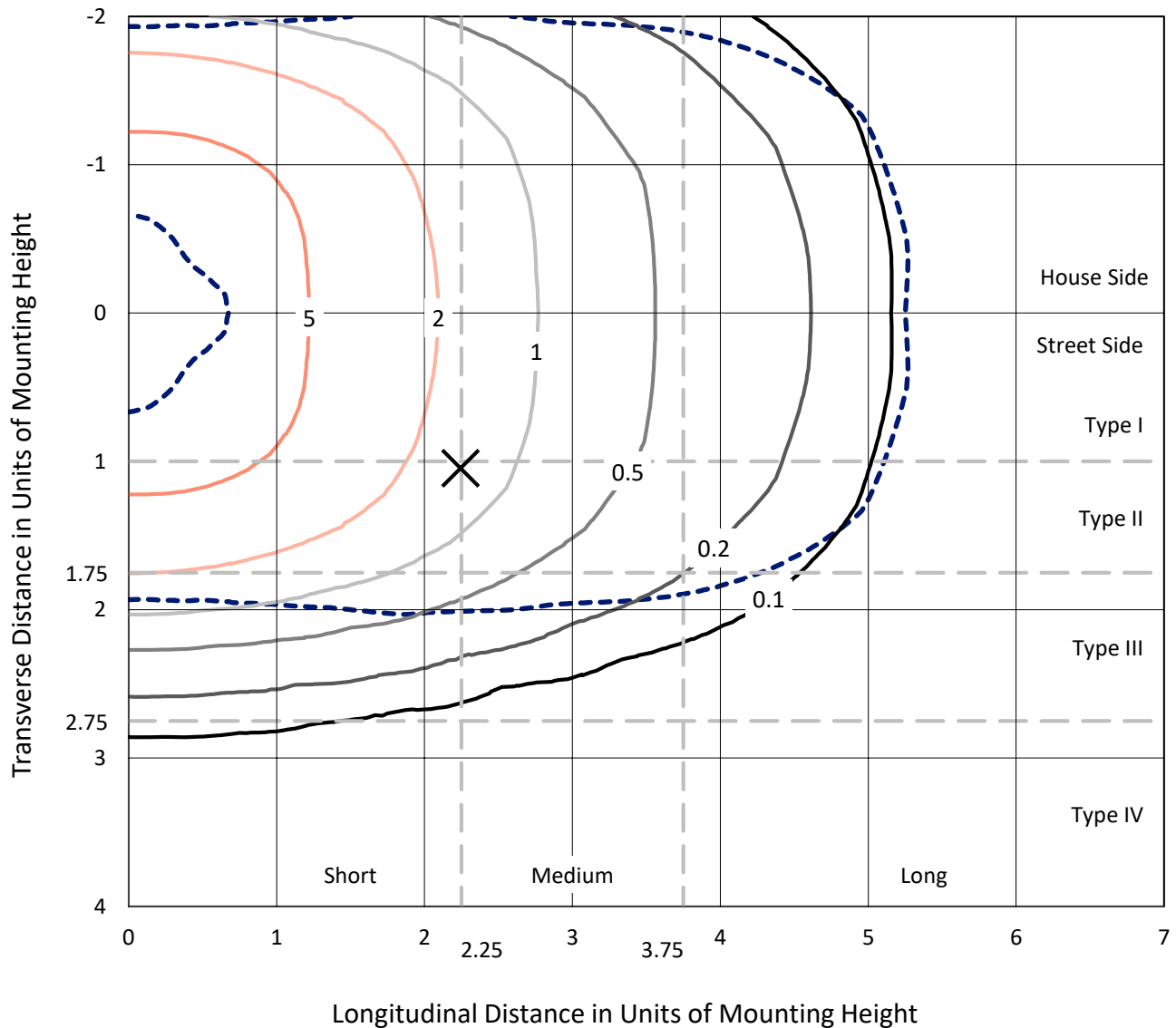


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Iso-Footcandle Lines of Horizontal Illumination

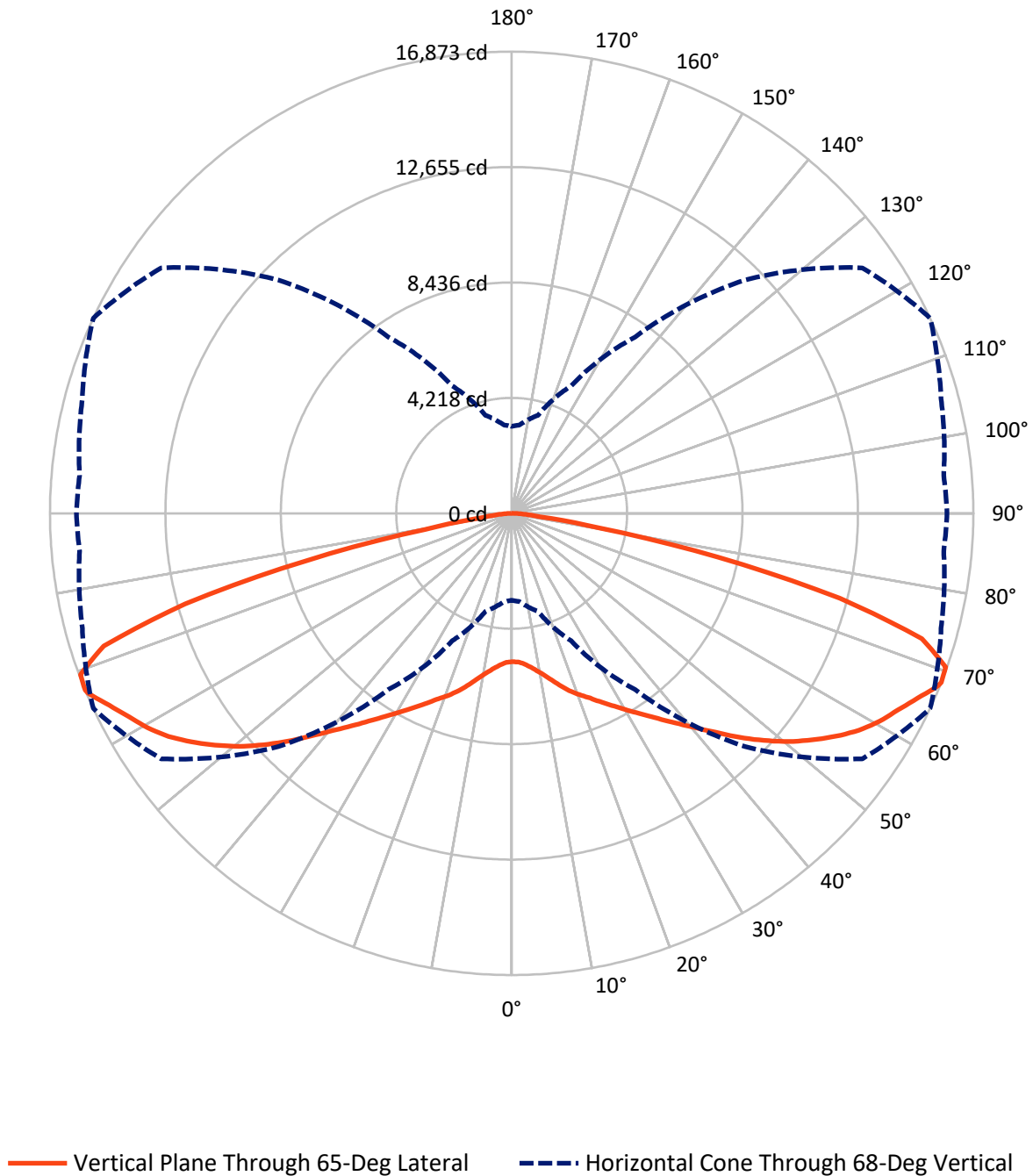
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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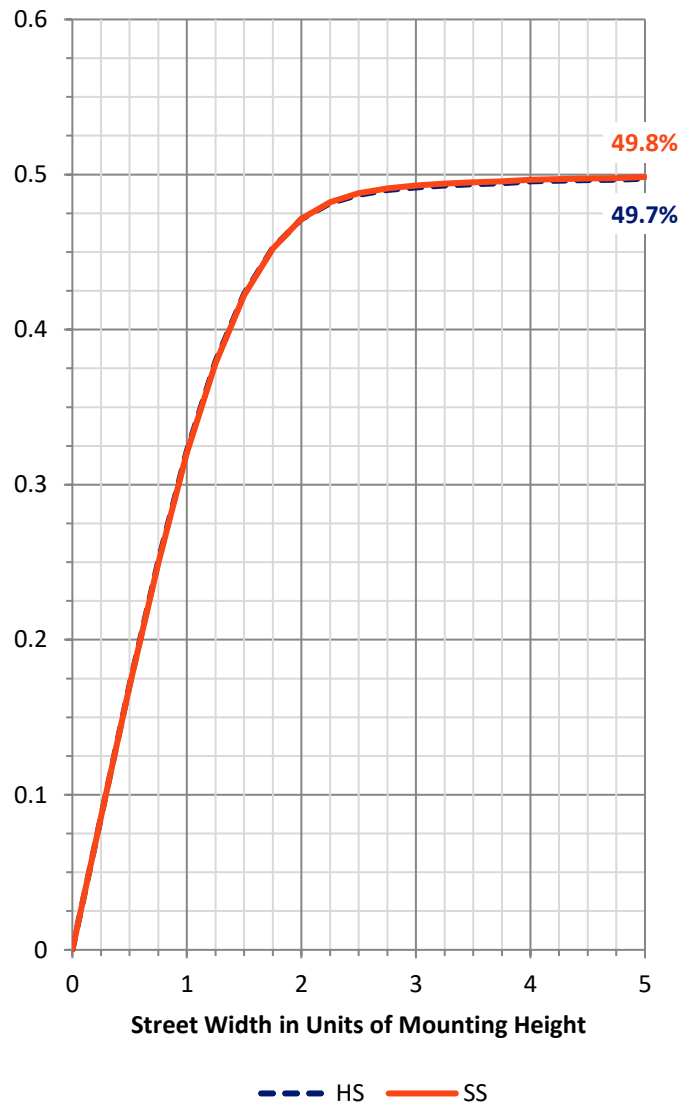
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26062.5	0.0	26062.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26062.5	0.0	26062.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	52125.0	0.0	52125.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.6	1.0
10°-20°	1776.8	3.4
20°-30°	3464.3	6.6
30°-40°	5819.7	11.2
40°-50°	9169.8	17.6
50°-60°	12263.1	23.5
60°-70°	11921.2	22.9
70°-80°	6516.7	12.5
80°-90°	662.8	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°	52125.0	100.0
0°-180°	52125.0	100.0

Coefficient of Utilization



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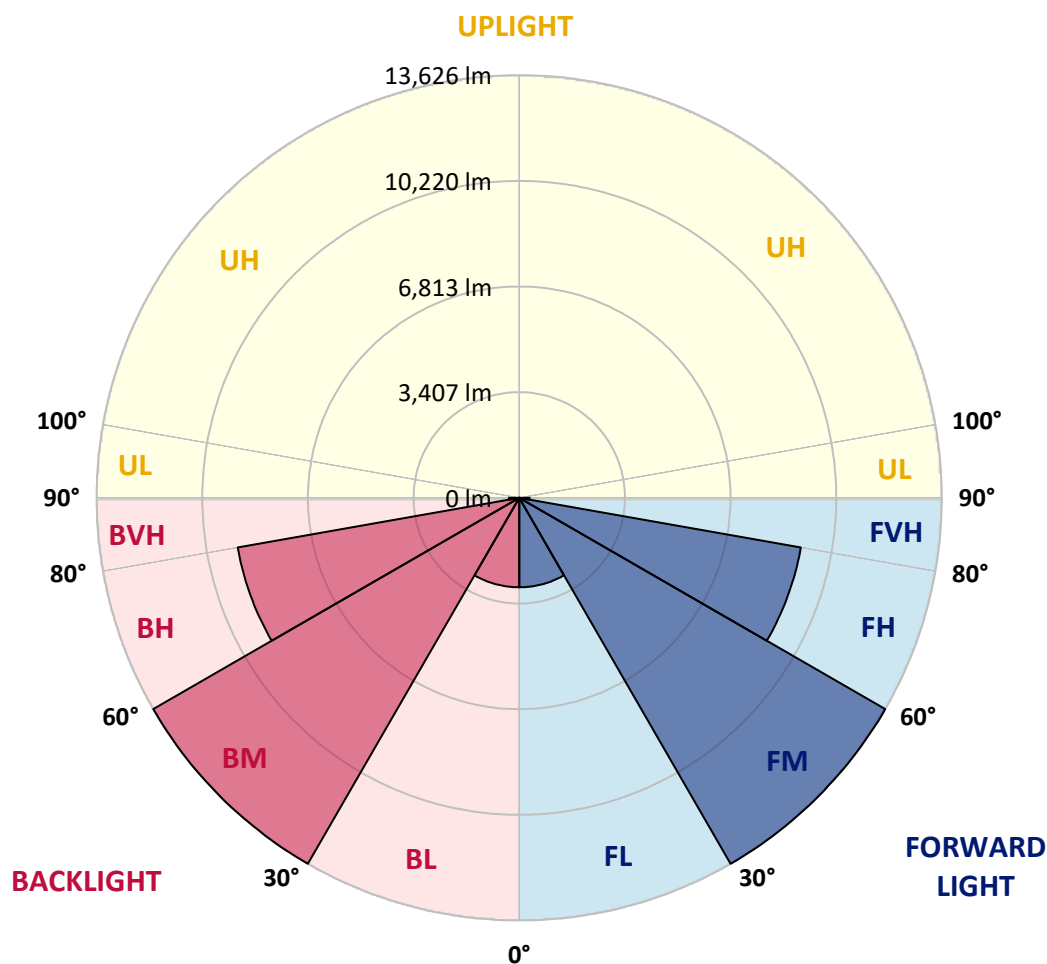
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2885.8	5.5			
FM	(30°-60°)	13626.3	26.1			
FH	(60°-80°)	9219.0	17.7			G4/12000
FVH	(80°-90°)	331.4	0.6			G3/500
BL	(0°-30°)	2885.8	5.5	B4/5000		
BM	(30°-60°)	13626.3	26.1	B5		
BH	(60°-80°)	9219.0	17.7	B5		G5
BVH	(80°-90°)	331.4	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5419.8	5419.8	5419.8	5419.8	5419.8	5419.8	5419.8	5419.8	5419.8	5419.8	5419.8
2.5°	5381.3	5383.1	5391.8	5402.3	5411.0	5433.8	5439.0	5447.7	5451.2	5460.0	5460.0
5°	5334.1	5337.6	5358.6	5386.6	5418.0	5474.0	5514.2	5559.6	5582.3	5606.8	5605.0
7.5°	5328.9	5337.6	5367.3	5412.8	5465.2	5557.8	5641.7	5732.6	5793.8	5849.7	5846.2
10°	5383.1	5397.1	5439.0	5507.2	5585.8	5701.2	5825.3	5947.6	6054.2	6139.8	6143.3
12.5°	5465.2	5482.7	5549.1	5652.2	5771.1	5919.6	6066.4	6204.5	6351.3	6478.9	6489.4
15°	5573.6	5596.3	5695.9	5849.7	6031.5	6208.0	6365.3	6506.9	6676.4	6852.9	6870.4
17.5°	5734.4	5765.8	5896.9	6104.9	6344.3	6538.3	6702.6	6809.2	6950.8	7132.6	7165.8
20°	5979.1	6019.3	6185.3	6433.5	6725.3	6928.1	7053.9	7076.6	7146.6	7309.1	7347.5
22.5°	6297.1	6332.1	6517.4	6812.7	7139.6	7359.8	7426.2	7335.3	7328.3	7459.4	7496.1
25°	6651.9	6683.4	6898.4	7230.4	7581.7	7824.7	7822.9	7646.4	7524.1	7625.4	7663.9
27.5°	7050.4	7099.4	7305.6	7655.1	8030.9	8270.4	8256.4	7983.7	7751.3	7777.5	7810.7
30°	7508.3	7562.5	7763.5	8118.3	8494.1	8728.3	8710.8	8350.8	8001.2	7931.3	7955.8
32.5°	8076.4	8141.0	8331.5	8681.1	9013.1	9224.6	9173.9	8749.2	8301.8	8149.8	8172.5
35°	8759.7	8798.2	8999.2	9343.5	9612.6	9757.7	9651.1	9210.6	8682.8	8499.3	8499.3
37.5°	9451.8	9481.5	9707.0	10040.8	10301.2	10378.1	10170.2	9715.7	9180.9	8920.5	8925.8
40°	10116.0	10196.4	10449.8	10792.4	11049.3	11070.2	10794.1	10292.5	9735.0	9465.8	9497.3
42.5°	10809.8	10888.5	11190.8	11578.8	11806.1	11841.0	11517.7	10939.2	10360.7	10142.2	10177.1
45°	11428.5	11491.5	11841.0	12291.9	12575.1	12665.9	12283.2	11680.2	11037.0	10823.8	10832.6
47.5°	11860.2	11942.4	12326.9	12858.2	13270.7	13410.5	13034.7	12402.0	11702.9	11444.3	11467.0
50°	12251.7	12295.4	12685.2	13265.4	13789.7	14078.1	13756.5	13115.1	12375.8	12101.4	12125.9
52.5°	12470.2	12526.1	12903.6	13508.4	14128.8	14593.7	14398.0	13756.5	13026.0	12758.6	12788.3
55°	12318.1	12360.1	12812.8	13562.5	14338.5	14911.8	14941.5	14384.0	13663.9	13429.7	13513.6
57.5°	11626.0	11678.5	12230.8	13213.0	14364.8	15126.8	15350.5	14966.0	14259.9	14069.4	14118.3
60°	10544.2	10577.4	11166.4	12271.0	13854.4	15215.9	15610.9	15441.4	14843.6	14653.1	14719.6
62.5°	8616.4	8665.3	9369.7	10850.0	12776.1	14952.0	15862.6	15834.6	15387.2	15212.4	15271.8
65°	5889.9	5975.6	6755.1	8626.9	11113.9	14144.5	16091.5	16292.5	15867.8	15647.6	15726.3
67.5°	3556.7	3619.6	4184.1	5695.9	8504.6	12515.6	15855.6	16813.4	16206.9	15852.1	15916.8
68°	3179.2	3236.8	3708.7	5140.1	7866.6	12056.0	15640.6	16872.8	16243.6	15848.6	15906.3
70°	1920.8	1959.2	2275.6	3177.4	5245.0	9563.7	14174.3	16823.8	16477.8	15897.5	15930.7
72.5°	1251.4	1263.6	1316.1	1630.7	2679.3	5348.1	10638.6	15677.3	16829.1	16182.4	16177.2
75°	1039.9	1032.9	1038.2	1074.9	1321.3	2345.5	6216.7	12384.6	16042.6	15733.2	15623.1
77.5°	879.1	873.9	872.1	873.9	884.4	1132.5	2698.5	7714.6	12276.2	13917.3	14015.2
80°	711.3	704.3	727.1	716.6	685.1	704.3	1130.8	3208.9	5786.8	6225.5	5834.0
82.5°	517.3	491.1	589.0	561.0	534.8	496.4	623.9	1036.4	1380.7	947.3	665.9
85°	398.5	370.5	447.4	429.9	367.0	253.4	370.5	506.8	559.3	319.8	251.7
87.5°	162.5	171.3	323.3	255.2	215.0	122.3	152.1	202.7	272.6	136.3	104.9
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)