

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: P458489

Luminaire Tested: **GALN-SA9D-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57497 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 552
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

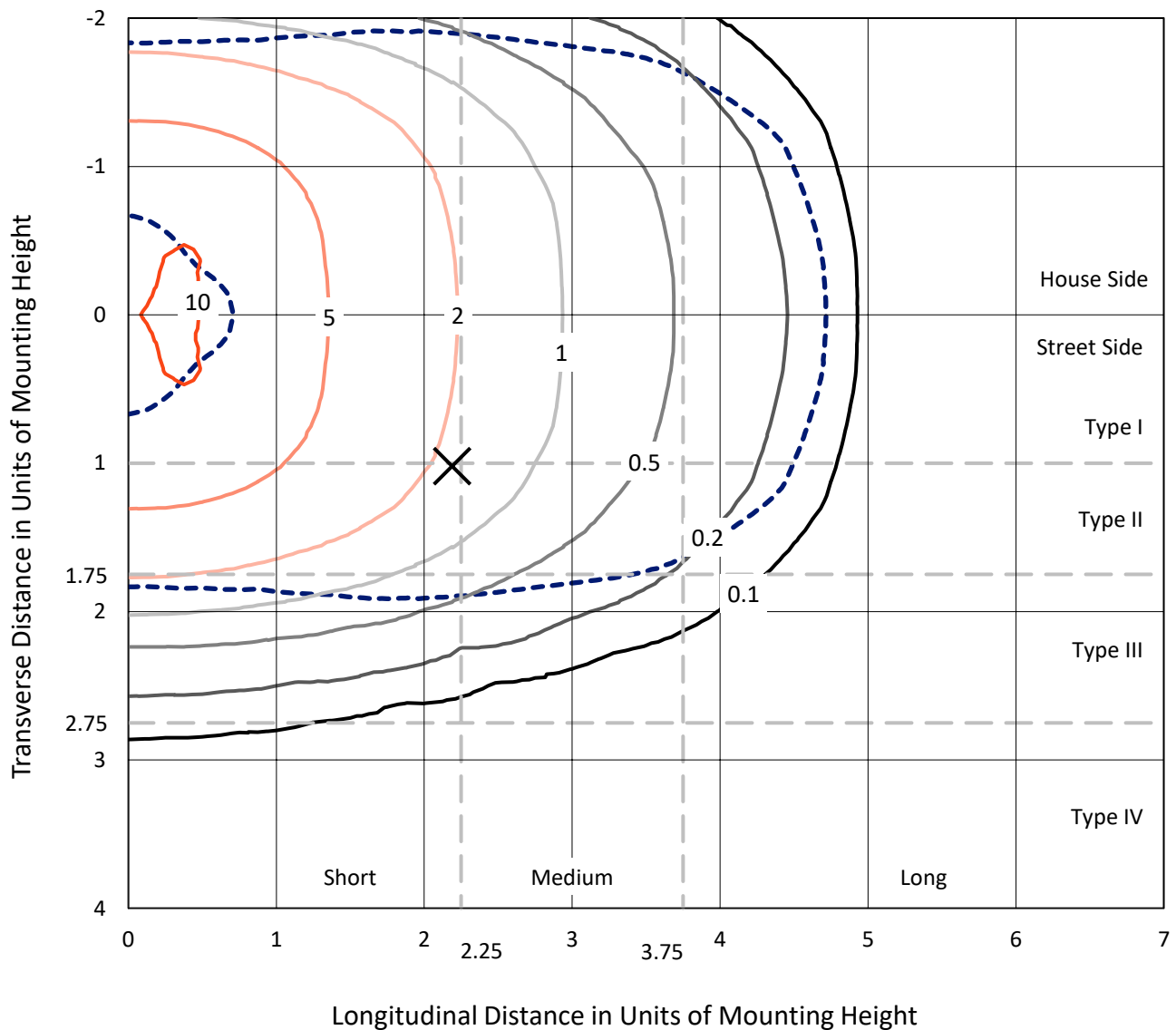


REPORT NUMBER: P458489

CATALOG NUMBER: GALN-SA9D-830-U-RW

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

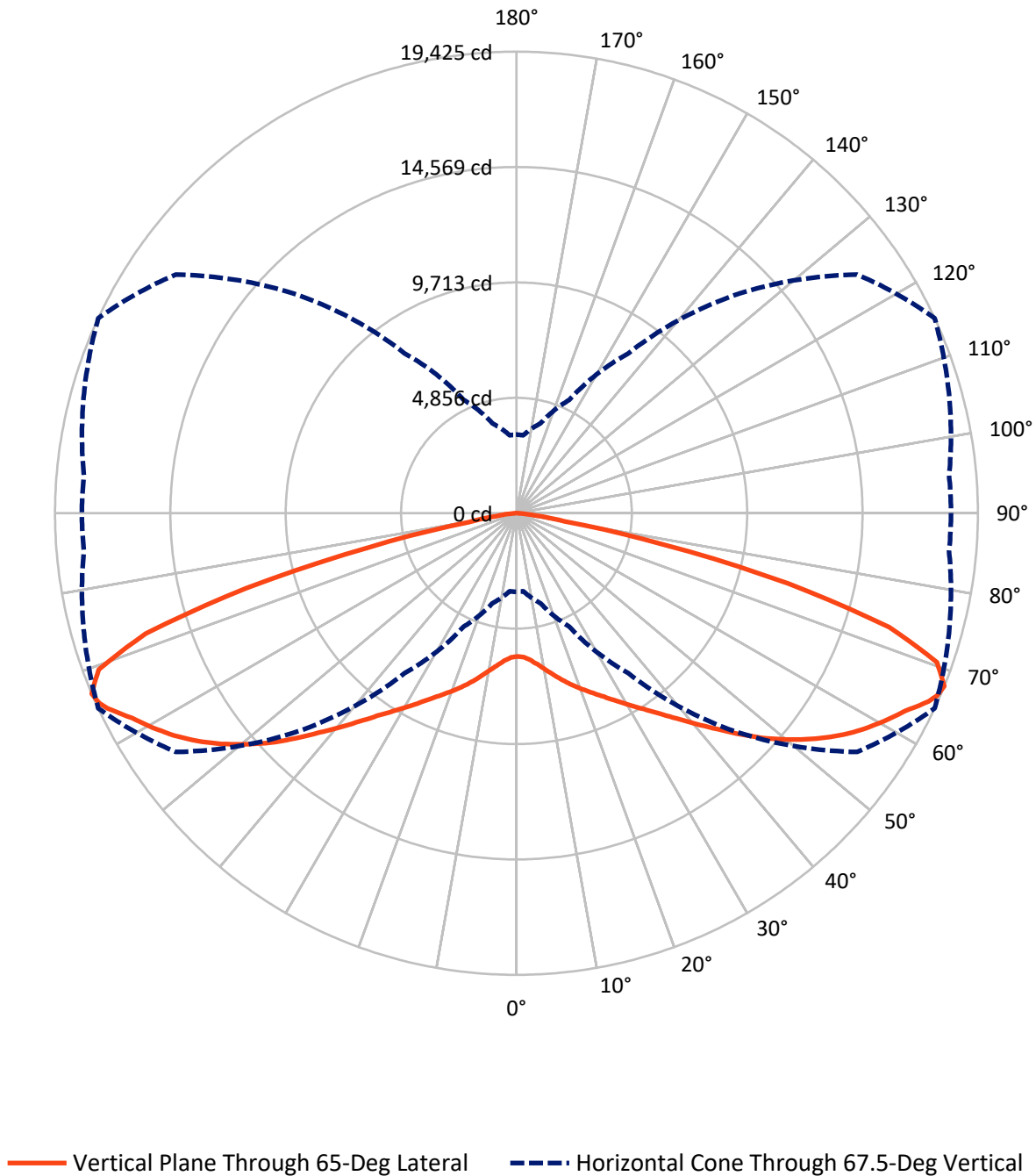


Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type III - Short - N/A

REPORT NUMBER: P458489

CATALOG NUMBER: GALN-SA9D-830-U-RW

Luminous Intensity Polar Plot



REPORT NUMBER: P458489

CATALOG NUMBER: GALN-SA9D-830-U-RW

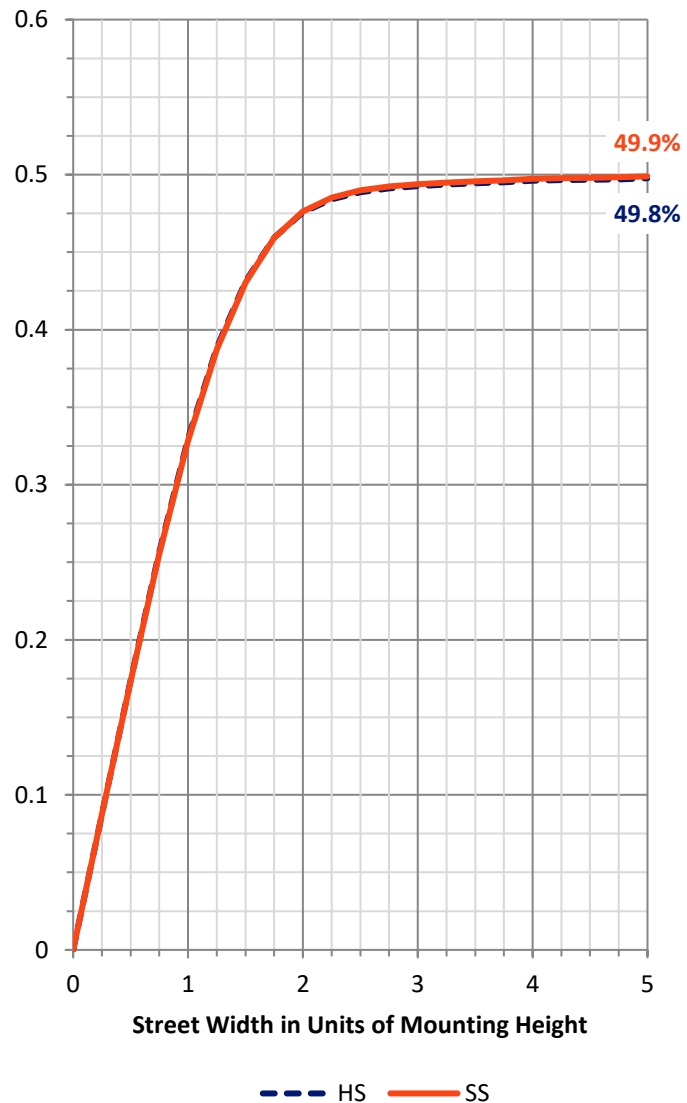
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28748.5	0.0	28748.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28748.5	0.0	28748.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	57497.0	0.0	57497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.0	1.0
10°-20°	1987.9	3.5
20°-30°	3888.5	6.8
30°-40°	6613.9	11.5
40°-50°	10467.8	18.2
50°-60°	13880.1	24.1
60°-70°	13093.2	22.8
70°-80°	6472.6	11.3
80°-90°	498.8	0.9
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°	57497.0	100.0
0°-180°	57497.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458489

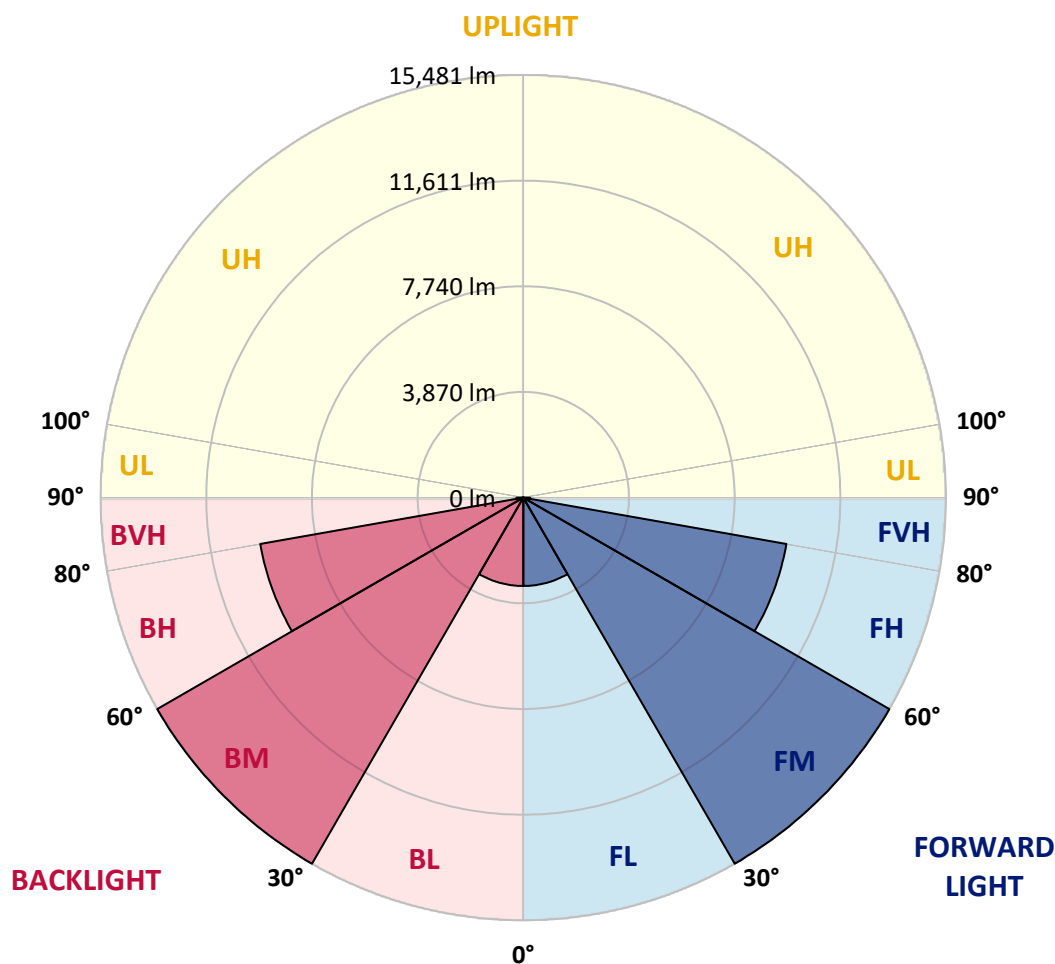
CATALOG NUMBER: GALN-SA9D-830-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3235.2	5.6			
FM	(30°-60°)	15480.9	26.9			
FH	(60°-80°)	9782.9	17.0			G4/12000
FVH	(80°-90°)	249.4	0.4			G3/500
BL	(0°-30°)	3235.2	5.6	B4/5000		
BM	(30°-60°)	15480.9	26.9	B5		
BH	(60°-80°)	9782.9	17.0	B5		G5
BVH	(80°-90°)	249.4	0.4			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





REPORT NUMBER: P458489

CATALOG NUMBER: GALN-SA9D-830-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6022.3	6022.3	6022.3	6022.3	6022.3	6022.3	6022.3	6022.3	6022.3	6022.3	6022.3
2.5°	5991.5	5997.7	6003.8	6013.1	6025.4	6043.9	6056.2	6065.4	6090.1	6093.2	6090.1
5°	5969.9	5976.1	5991.5	6019.2	6059.3	6114.7	6157.8	6210.2	6250.3	6278.0	6271.8
7.5°	5966.9	5979.2	6003.8	6062.3	6139.4	6234.9	6333.4	6422.8	6499.8	6561.4	6552.1
10°	6016.1	6031.5	6071.6	6157.8	6278.0	6416.6	6555.2	6687.7	6798.6	6878.7	6906.4
12.5°	6099.3	6111.6	6185.6	6314.9	6487.5	6660.0	6817.1	6980.3	7134.4	7269.9	7269.9
15°	6244.1	6265.7	6358.1	6546.0	6758.5	6958.8	7118.9	7291.5	7457.8	7611.8	7658.0
17.5°	6444.3	6475.1	6613.8	6854.0	7125.1	7309.9	7460.9	7602.6	7747.4	7895.2	7916.8
20°	6718.5	6749.3	6934.1	7223.7	7544.1	7765.8	7867.5	7901.4	7972.2	8113.9	8132.4
22.5°	7091.2	7122.0	7328.4	7654.9	8012.3	8252.6	8295.7	8215.6	8197.1	8308.0	8320.3
25°	7513.2	7541.0	7778.2	8129.3	8499.0	8760.8	8748.5	8551.4	8440.5	8508.2	8526.7
27.5°	7987.6	8027.7	8268.0	8631.5	9031.9	9262.9	9226.0	8939.5	8702.3	8690.0	8696.1
30°	8594.5	8637.6	8865.6	9213.7	9608.0	9820.5	9743.5	9358.4	8991.9	8868.7	8868.7
32.5°	9235.2	9343.0	9574.1	9937.6	10245.6	10399.6	10282.6	9820.5	9333.8	9161.3	9152.1
35°	10070.0	10128.6	10356.5	10710.8	10941.8	11061.9	10837.1	10341.1	9780.5	9577.2	9549.4
37.5°	10886.4	10935.6	11200.6	11539.4	11819.7	11813.6	11508.6	10960.3	10335.0	10107.0	10088.5
40°	11721.2	11773.5	12075.4	12386.5	12666.9	12642.2	12272.6	11659.5	10994.2	10738.5	10787.8
42.5°	12445.1	12503.6	12845.5	13289.1	13541.7	13535.6	13107.4	12417.3	11724.2	11496.3	11539.4
45°	13104.3	13156.7	13554.0	14062.3	14432.0	14478.2	14009.9	13279.9	12568.3	12275.6	12288.0
47.5°	13569.4	13668.0	14083.9	14666.1	15168.2	15331.5	14872.5	14157.8	13338.4	13033.4	13051.9
50°	13923.7	13985.3	14438.1	15100.4	15735.0	16073.9	15704.2	14971.0	14108.5	13785.1	13828.2
52.5°	13966.8	14040.7	14533.6	15297.6	16110.8	16625.3	16443.5	15765.8	14894.0	14561.3	14653.8
55°	13615.6	13658.8	14247.1	15174.4	16258.7	17035.0	17081.2	16505.1	15642.6	15390.0	15451.6
57.5°	12614.5	12725.4	13470.9	14598.3	16055.4	17253.7	17558.6	17176.7	16400.4	16150.9	16249.4
60°	10972.6	11083.5	11832.1	13261.4	15288.3	17152.0	17952.9	17771.2	17087.3	16887.1	16939.5
62.5°	8597.6	8588.3	9515.5	11268.3	13763.5	16653.0	18245.6	18344.2	17765.0	17512.4	17592.5
65°	5572.6	5600.3	6496.7	8385.0	11462.4	15383.8	18310.3	19074.2	18430.4	18048.4	18107.0
66°	4482.1	4565.2	5326.1	7066.6	10288.7	14552.1	18116.2	19289.9	18633.7	18171.6	18199.4
67.5°	3308.4	3293.0	3918.3	5261.4	8215.6	12971.8	17509.3	19425.4	18864.8	18282.5	18294.9
70°	1888.3	1885.2	2107.0	2889.5	4830.2	9133.6	14758.5	18775.4	19333.0	18683.0	18649.1
72.5°	1380.0	1370.8	1401.6	1595.7	2356.6	4611.5	10180.9	16409.6	19092.7	18618.3	18522.8
75°	1158.3	1152.1	1145.9	1170.6	1321.5	2088.6	5403.1	11804.3	16566.7	17475.5	17376.9
77.5°	945.7	945.7	948.8	942.6	948.8	1099.7	2239.5	6327.3	10088.5	11262.2	11536.3
80°	739.3	736.2	788.6	767.0	717.7	705.4	991.9	2036.2	3348.5	3330.0	2747.8
82.5°	545.2	508.3	600.7	585.3	529.8	449.7	579.1	868.7	1118.2	727.0	539.1
85°	345.0	341.9	425.1	388.1	323.4	212.6	277.2	372.7	462.1	280.3	228.0
87.5°	61.6	58.5	135.5	98.6	98.6	61.6	77.0	101.7	150.9	104.7	77.0
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)