

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: P456876

Luminaire Tested: **GALN-SA8A-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29293 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 244
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

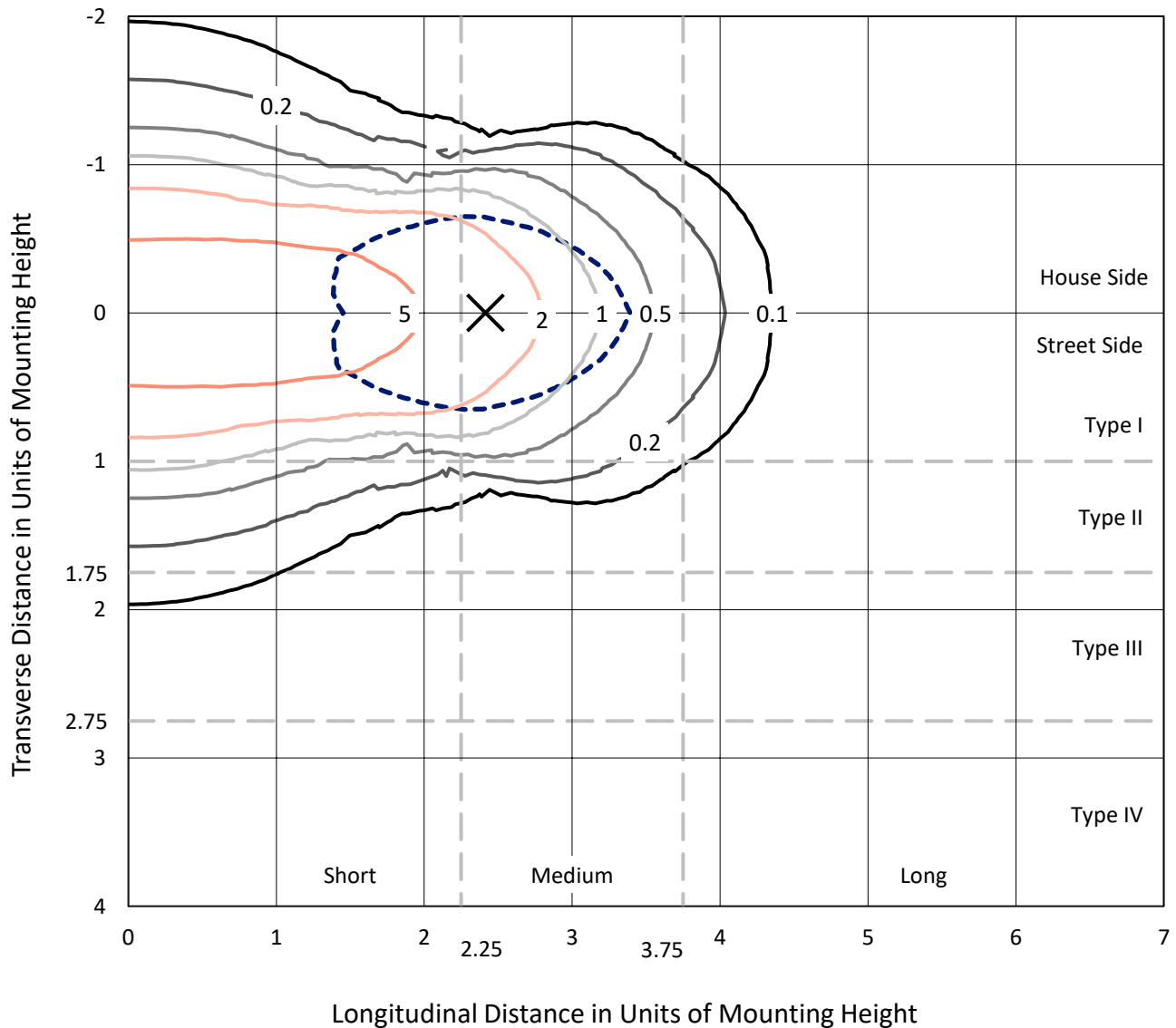


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

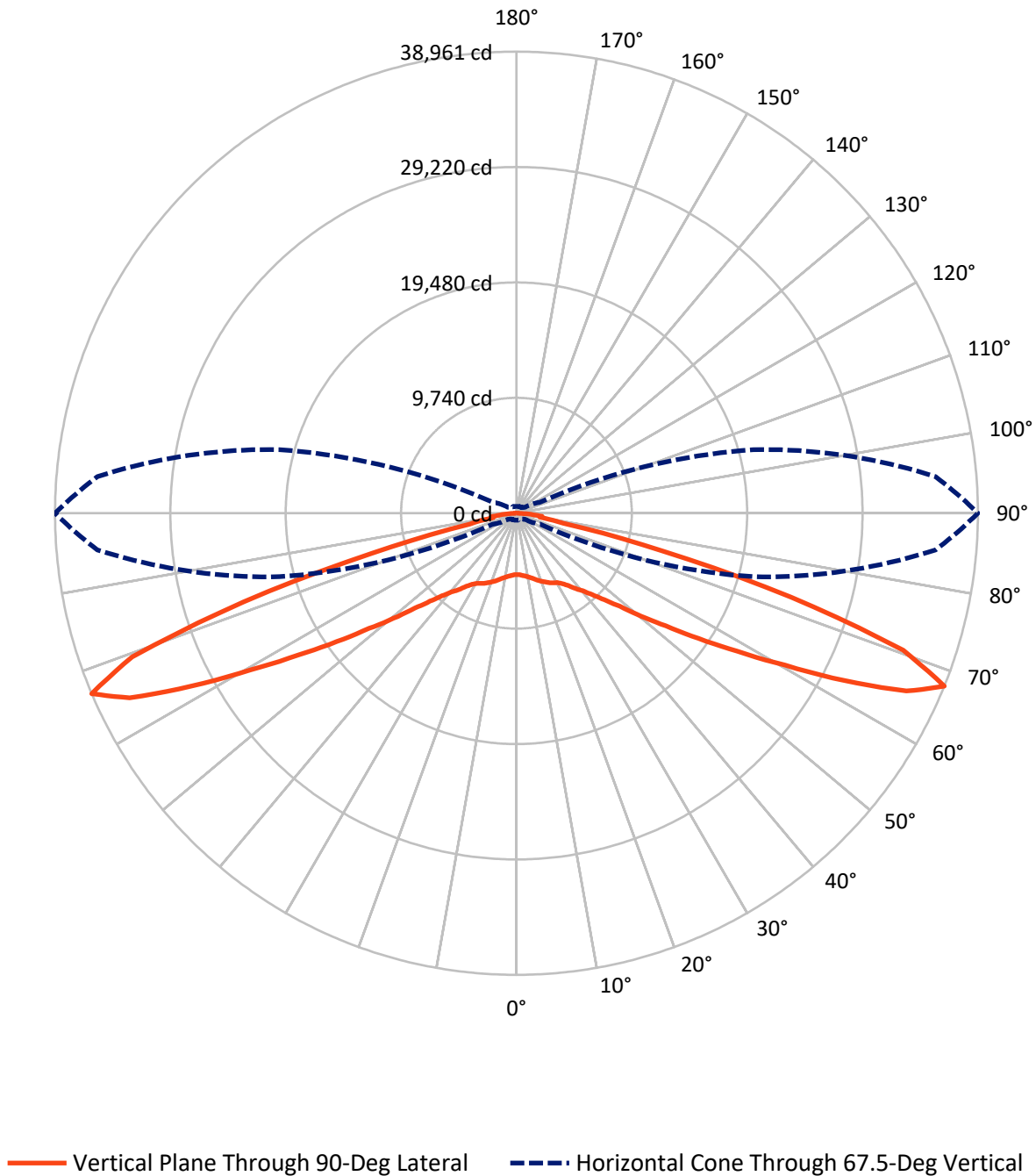


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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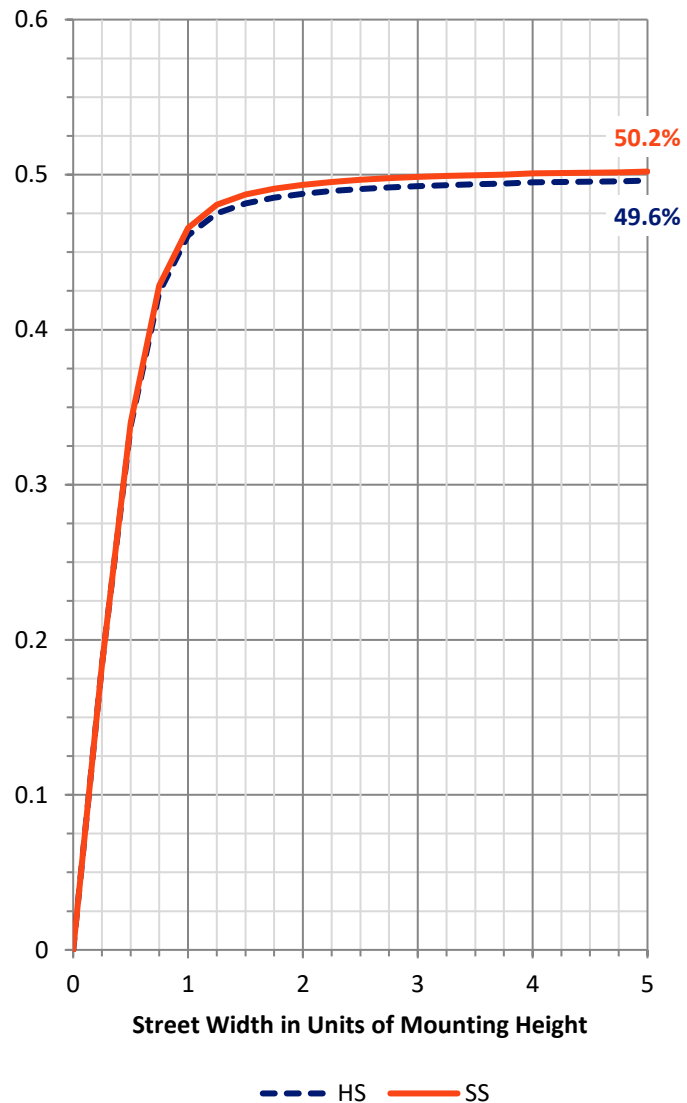
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14646.5	0.0	14646.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14646.5	0.0	14646.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29293.0	0.0	29293.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.0	1.8
10°-20°	1654.2	5.6
20°-30°	2768.7	9.5
30°-40°	3750.8	12.8
40°-50°	4751.1	16.2
50°-60°	5935.3	20.3
60°-70°	6976.6	23.8
70°-80°	2668.9	9.1
80°-90°	270.4	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°	29293.0	100.0
0°-180°	29293.0	100.0

Coefficient of Utilization



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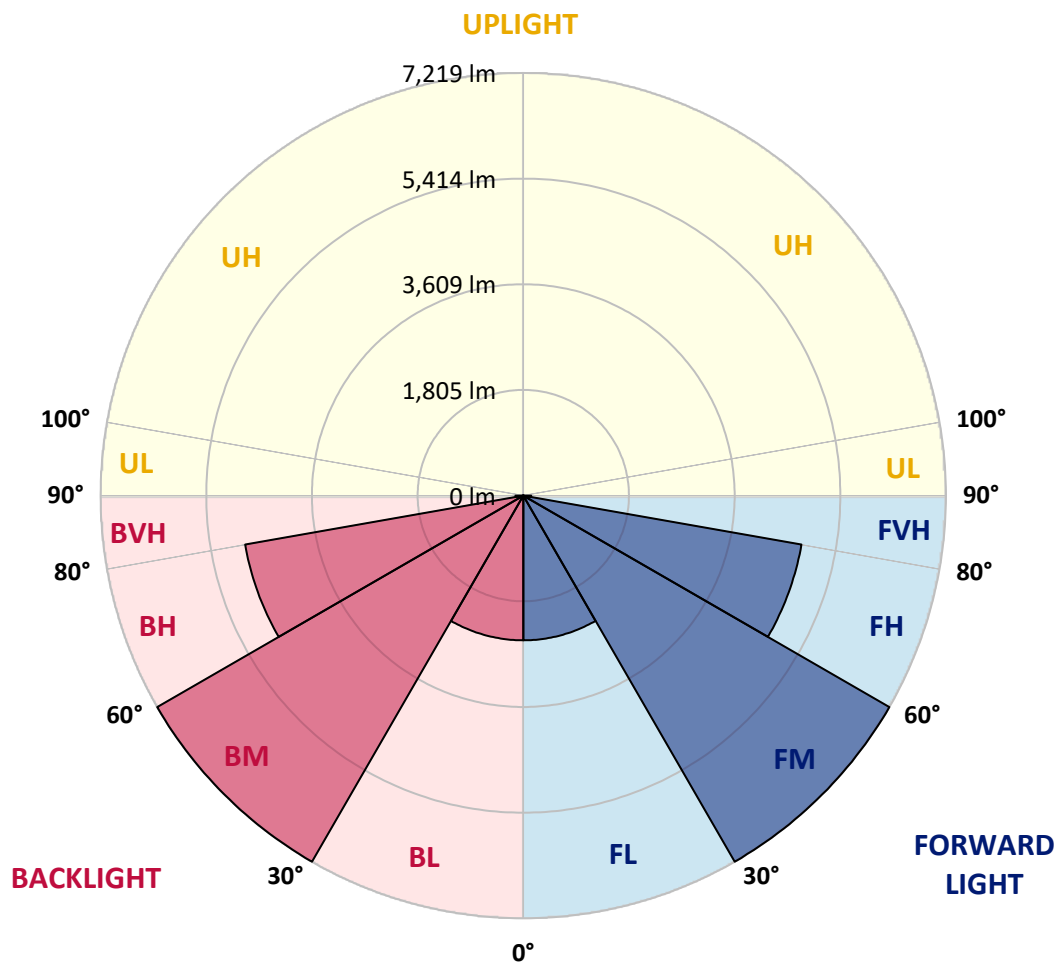
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2469.9	8.4			
FM	(30°-60°)	7218.6	24.6			
FH	(60°-80°)	4822.8	16.5			G2/5000
FVH	(80°-90°)	135.2	0.5			G2/225
BL	(0°-30°)	2469.9	8.4	B3/2500		
BM	(30°-60°)	7218.6	24.6	B4/8500		
BH	(60°-80°)	4822.8	16.5	B4/5000		G4/5000
BVH	(80°-90°)	135.2	0.5			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5185.8	5185.8	5185.8	5185.8	5185.8	5185.8	5185.8	5185.8	5185.8	5185.8	5185.8
2.5°	5252.3	5249.0	5250.7	5249.0	5253.9	5250.7	5231.2	5215.0	5202.0	5203.6	5198.7
5°	5364.2	5365.8	5367.4	5359.3	5370.7	5364.2	5333.4	5307.4	5281.5	5271.7	5268.5
7.5°	5456.7	5464.8	5469.6	5477.7	5497.2	5497.2	5481.0	5443.7	5386.9	5354.5	5352.8
10°	5549.1	5555.6	5570.2	5596.2	5628.6	5659.4	5652.9	5602.6	5529.7	5474.5	5461.5
12.5°	5581.6	5589.7	5638.3	5712.9	5785.9	5846.0	5846.0	5805.4	5711.3	5627.0	5602.6
15°	5468.0	5482.6	5570.2	5729.2	5920.6	6052.0	6081.2	6024.4	5923.8	5794.1	5764.9
17.5°	5242.5	5278.2	5406.4	5641.6	5959.5	6232.0	6316.4	6288.8	6159.0	5993.6	5959.5
20°	5000.9	5039.8	5176.0	5487.5	5927.1	6337.4	6582.4	6588.9	6428.3	6188.2	6137.9
22.5°	4734.8	4764.0	4939.2	5304.2	5829.7	6361.8	6811.1	6923.0	6705.7	6382.9	6311.5
25°	4436.4	4468.8	4652.1	5046.3	5646.4	6334.2	7020.3	7266.9	6996.0	6590.5	6499.7
27.5°	4150.9	4163.9	4360.1	4760.8	5404.8	6262.8	7174.4	7583.2	7317.2	6762.4	6647.3
30°	3876.8	3907.6	4081.1	4476.9	5127.4	6123.3	7307.4	7943.3	7662.7	6942.5	6794.9
32.5°	3586.4	3623.7	3811.9	4212.5	4850.0	5914.1	7388.6	8337.5	8144.4	7234.5	7077.1
35°	3307.4	3331.7	3521.5	3910.8	4579.1	5670.8	7403.1	8781.9	8765.7	7677.3	7468.0
37.5°	3021.9	3057.6	3249.0	3622.1	4292.0	5412.9	7330.2	9253.9	9515.1	8292.0	8066.6
40°	2747.8	2778.6	2966.8	3343.1	3966.0	5098.2	7156.6	9685.4	10389.4	8924.7	8605.1
42.5°	2449.3	2457.4	2663.4	3046.3	3646.4	4733.2	6906.8	10069.8	11364.3	9773.0	9375.6
45°	2110.3	2131.4	2322.8	2699.1	3279.8	4324.5	6567.8	10387.8	12600.3	10949.0	10407.2
47.5°	1771.3	1789.1	1964.3	2335.8	2879.2	3855.7	6045.5	10666.8	13868.7	12442.9	11732.5
50°	1440.4	1450.1	1592.9	1922.2	2428.2	3362.6	5398.3	10756.0	15302.7	14558.1	13651.4
52.5°	1138.7	1153.3	1262.0	1519.9	1946.5	2780.2	4699.2	10535.4	16976.6	17065.8	15787.7
55°	923.0	927.8	1008.9	1198.7	1521.5	2170.3	3855.7	9920.6	18777.1	20279.2	18649.0
57.5°	794.8	798.1	843.5	948.9	1171.1	1636.7	2991.1	8757.6	20394.3	24044.0	21948.3
60°	721.8	723.4	749.4	811.0	927.8	1255.5	2142.8	7116.0	21990.5	28233.8	26048.9
62.5°	676.4	676.4	694.2	728.3	785.1	963.5	1552.3	5133.9	23083.7	32485.3	31103.3
65°	632.6	632.6	645.6	669.9	700.7	788.3	1146.8	3348.0	23056.2	35581.8	36186.9
67.5°	582.3	582.3	592.1	616.4	634.2	678.0	885.7	2193.0	20710.7	35513.7	38960.6
70°	522.3	522.3	535.3	556.4	571.0	598.5	699.1	1500.4	15215.1	30323.1	34649.1
72.5°	462.3	463.9	472.0	493.1	504.5	520.7	580.7	1051.1	9333.4	20647.4	24227.3
75°	395.8	399.0	407.1	428.2	438.0	444.4	489.9	749.4	4721.9	11132.3	12674.9
77.5°	319.5	326.0	330.9	353.6	360.1	369.8	403.9	541.8	2073.0	4000.0	4035.7
80°	233.6	241.7	256.3	277.4	282.2	288.7	308.2	384.4	939.2	1826.5	1983.8
82.5°	171.9	183.3	165.5	193.0	193.0	184.9	217.4	257.9	431.5	1808.6	2163.8
85°	94.1	95.7	86.0	98.9	105.4	103.8	115.2	126.5	209.2	1206.8	1244.1
87.5°	22.7	24.3	26.0	30.8	37.3	37.3	40.6	35.7	68.1	390.9	223.8
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)