

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: P646938

Luminaire Tested: **GALN-SA5C-835-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646938
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-SA5C-835-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28442.5 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

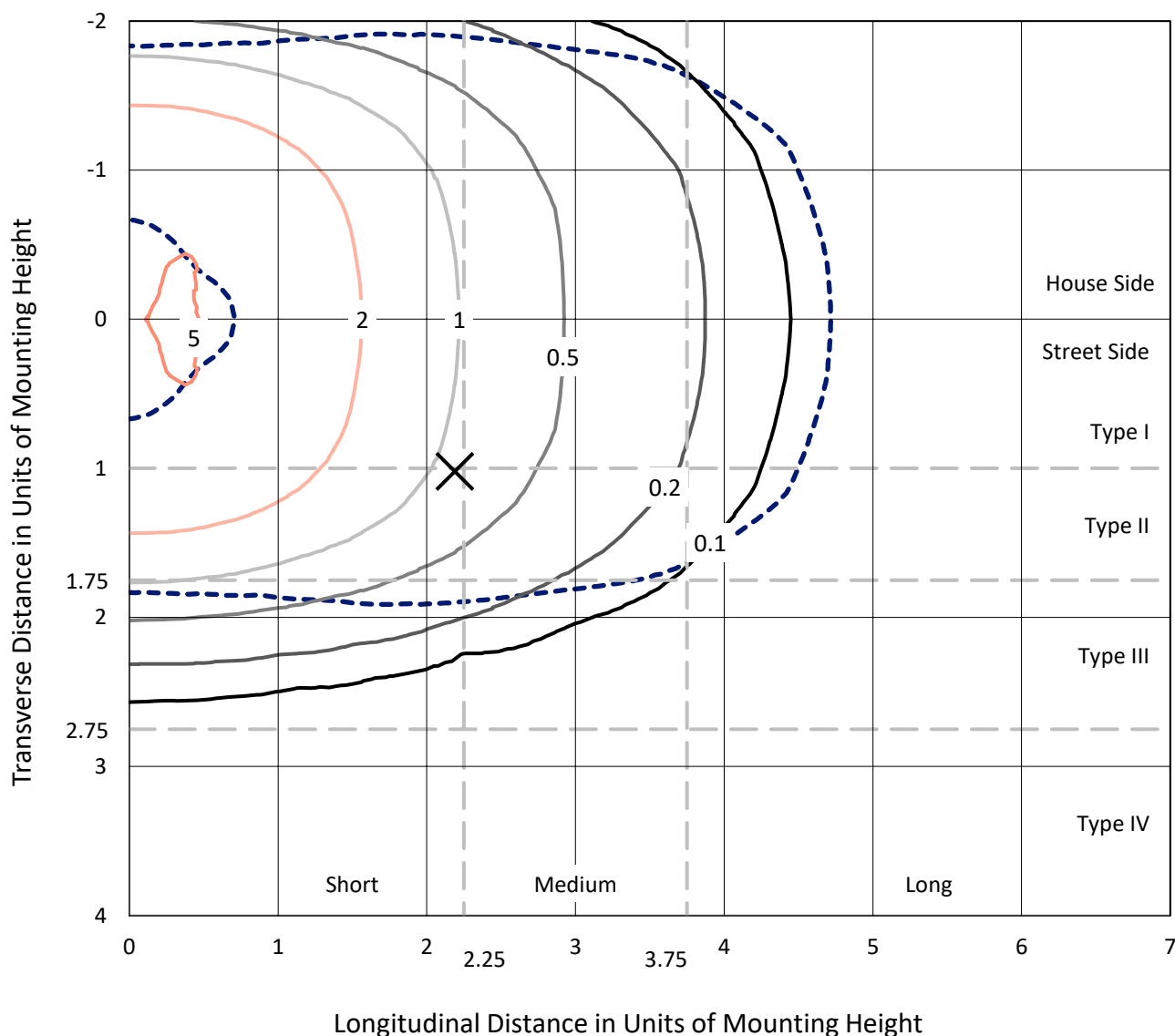
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

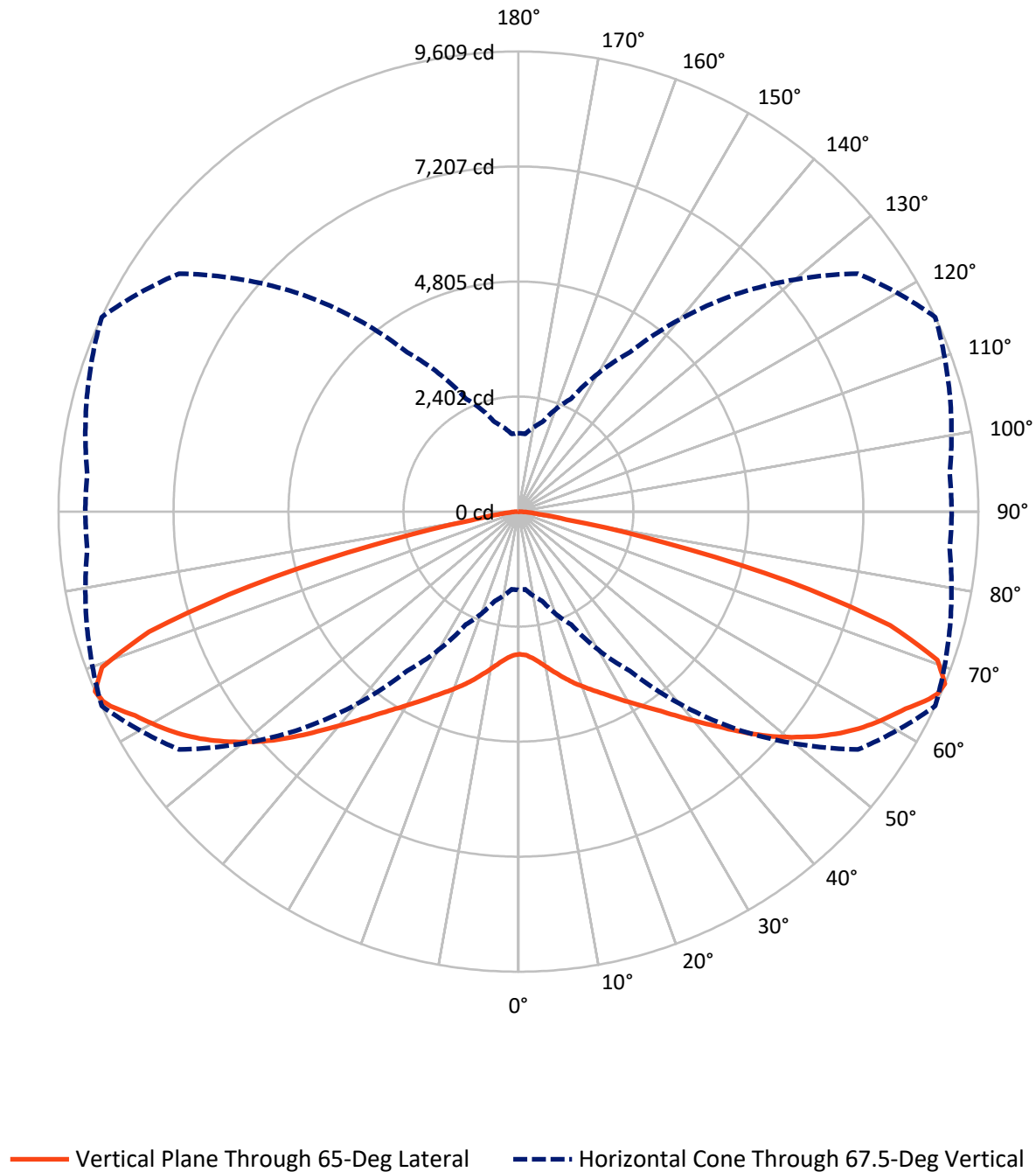
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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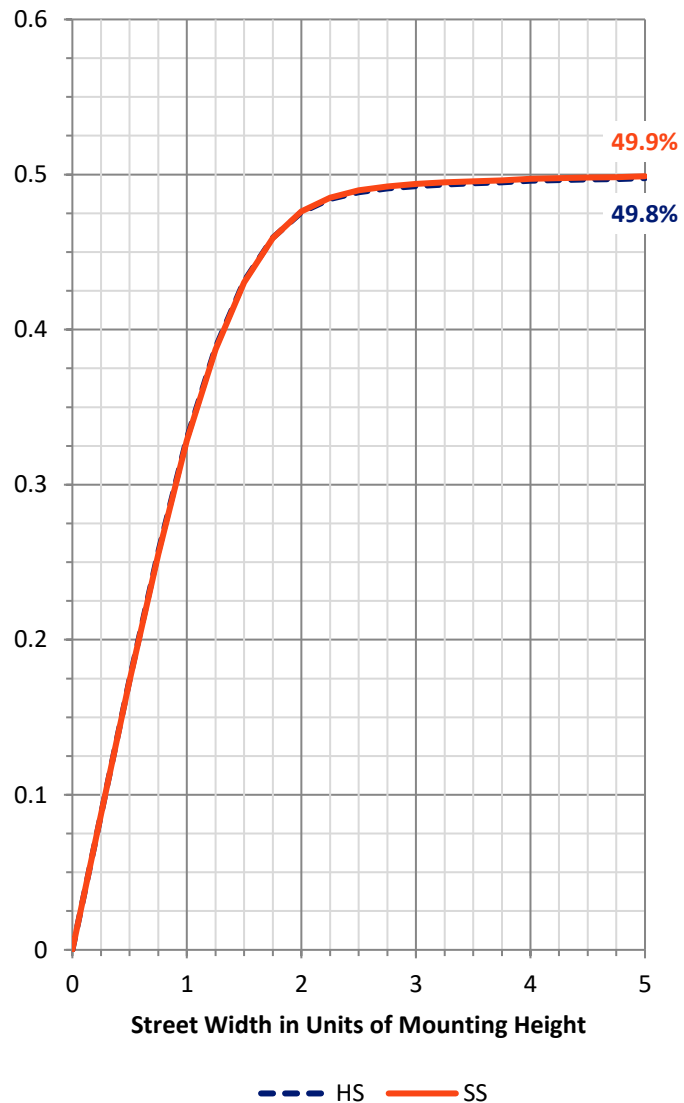
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14221.2	0.0	14221.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14221.2	0.0	14221.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	28442.5	0.0	28442.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.8	1.0
10°-20°	983.4	3.5
20°-30°	1923.6	6.8
30°-40°	3271.7	11.5
40°-50°	5178.2	18.2
50°-60°	6866.2	24.1
60°-70°	6476.9	22.8
70°-80°	3201.9	11.3
80°-90°	246.8	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°	28442.5	100.0
0°-180°	28442.5	100.0

Coefficient of Utilization



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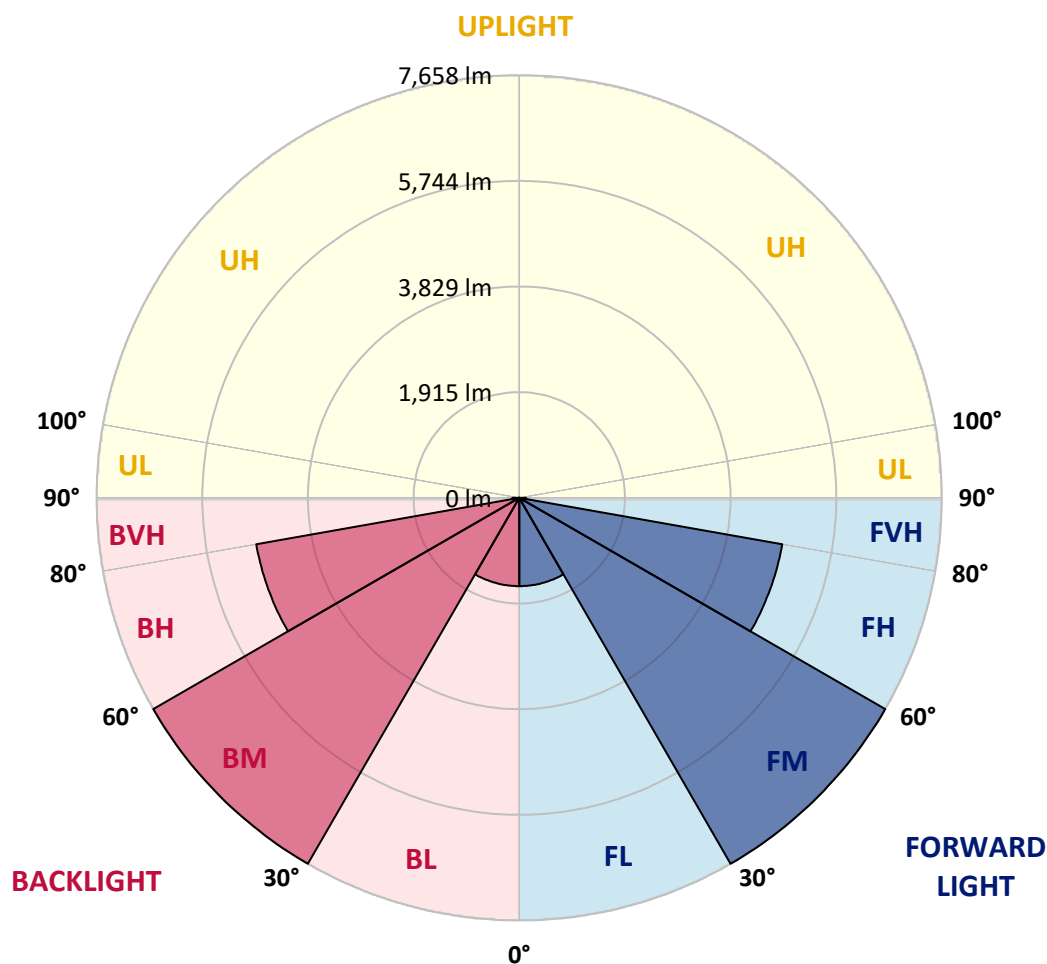
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1600.4	5.6			
FM	(30°-60°)	7658.1	26.9			
FH	(60°-80°)	4839.4	17.0			G2/5000
FVH	(80°-90°)	123.4	0.4			G2/225
BL	(0°-30°)	1600.4	5.6	B3/2500		
BM	(30°-60°)	7658.1	26.9	B4/8500		
BH	(60°-80°)	4839.4	17.0	B4/5000		G4/5000
BVH	(80°-90°)	123.4	0.4			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°	2979.1	2979.1	2979.1	2979.1	2979.1	2979.1	2979.1	2979.1	2979.1	2979.1	2979.1
2.5°	2963.9	2966.9	2969.9	2974.5	2980.6	2989.7	2995.8	3000.5	3012.6	3014.2	3012.6
5°	2953.2	2956.2	2963.9	2977.6	2997.4	3024.8	3046.2	3072.0	3091.8	3105.6	3102.6
7.5°	2951.7	2957.8	2969.9	2998.9	3037.0	3084.2	3133.0	3177.2	3215.3	3245.8	3241.2
10°	2976.0	2983.7	3003.5	3046.2	3105.6	3174.1	3242.7	3308.3	3363.1	3402.8	3416.5
12.5°	3017.2	3023.3	3059.9	3123.9	3209.2	3294.6	3372.2	3453.0	3529.2	3596.2	3596.2
15°	3088.8	3099.5	3145.2	3238.2	3343.3	3442.4	3521.6	3606.9	3689.2	3765.4	3788.2
17.5°	3187.8	3203.1	3271.7	3390.5	3524.6	3616.1	3690.7	3760.8	3832.5	3905.6	3916.3
20°	3323.5	3338.7	3430.2	3573.4	3731.9	3841.6	3891.9	3908.7	3943.7	4013.8	4022.9
22.5°	3507.8	3523.1	3625.2	3786.7	3963.5	4082.3	4103.7	4064.1	4054.9	4109.8	4115.9
25°	3716.7	3730.4	3847.7	4021.4	4204.2	4333.8	4327.7	4230.2	4175.3	4208.9	4217.9
27.5°	3951.3	3971.1	4090.0	4269.8	4467.9	4582.2	4563.9	4422.1	4304.9	4298.7	4301.8
30°	4251.5	4272.8	4385.6	4557.8	4752.8	4858.0	4819.9	4629.4	4448.1	4387.1	4387.1
32.5°	4568.5	4621.8	4736.1	4915.9	5068.3	5144.5	5086.5	4858.0	4617.2	4531.9	4527.3
35°	4981.4	5010.3	5123.2	5298.4	5412.6	5472.1	5360.9	5115.5	4838.2	4737.6	4723.9
37.5°	5385.2	5409.6	5540.7	5708.3	5847.0	5843.9	5693.0	5421.8	5112.4	4999.7	4990.5
40°	5798.2	5824.1	5973.4	6127.4	6266.0	6253.8	6071.0	5767.7	5438.6	5312.1	5336.5
42.5°	6156.3	6185.2	6354.4	6573.8	6698.8	6695.7	6483.9	6142.6	5799.7	5686.9	5708.3
45°	6482.4	6508.3	6704.9	6956.3	7139.2	7162.0	6930.4	6569.3	6217.3	6072.5	6078.6
47.5°	6712.5	6761.3	6967.0	7255.0	7503.3	7584.1	7357.1	7003.5	6598.2	6447.4	6456.5
50°	6887.7	6918.2	7142.2	7469.8	7783.7	7951.4	7768.5	7405.8	6979.2	6819.1	6840.5
52.5°	6909.0	6945.7	7189.4	7567.4	7969.7	8224.2	8134.2	7799.0	7367.7	7203.2	7248.9
55°	6735.4	6756.7	7047.7	7506.4	8042.8	8426.8	8449.7	8164.7	7738.0	7613.1	7643.6
57.5°	6240.1	6294.9	6663.7	7221.5	7942.2	8535.0	8685.9	8496.9	8112.9	7989.5	8038.2
60°	5427.9	5482.7	5853.1	6560.1	7562.8	8484.7	8880.9	8791.0	8452.7	8353.7	8379.6
62.5°	4253.0	4248.5	4707.2	5574.2	6808.5	8237.9	9025.6	9074.4	8787.9	8663.0	8702.7
65°	2756.6	2770.3	3213.7	4147.9	5670.2	7610.1	9057.7	9435.6	9117.1	8928.2	8957.1
66°	2217.1	2258.3	2634.7	3495.7	5089.6	7198.6	8961.7	9542.3	9217.7	8989.1	9002.9
67.5°	1636.6	1629.0	1938.3	2602.7	4064.1	6416.8	8661.5	9609.3	9332.0	9044.0	9050.1
70°	934.1	932.6	1042.3	1429.4	2389.4	4518.1	7300.7	9287.8	9563.6	9242.1	9225.3
72.5°	682.7	678.1	693.3	789.3	1165.7	2281.2	5036.3	8117.4	9444.7	9210.0	9162.8
75°	573.0	569.9	566.9	579.0	653.7	1033.2	2672.8	5839.3	8195.2	8644.7	8595.9
77.5°	467.8	467.8	469.3	466.3	469.3	544.0	1107.9	3130.0	4990.5	5571.1	5706.7
80°	365.7	364.2	390.1	379.4	355.1	349.0	490.7	1007.3	1656.4	1647.3	1359.3
82.5°	269.7	251.4	297.1	289.6	262.1	222.5	286.5	429.7	553.2	359.6	266.7
85°	170.7	169.1	210.3	192.0	160.0	105.2	137.2	184.4	228.6	138.7	112.8
87.5°	30.5	29.0	67.0	48.8	48.8	30.5	38.1	50.3	74.7	51.8	38.1
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)