

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: P454313

Luminaire Tested: **GALN-SA5B-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454313
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-SA5B-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23363 lumens
Efficiency: N/A
Efficacy: 114.5 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): 204
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

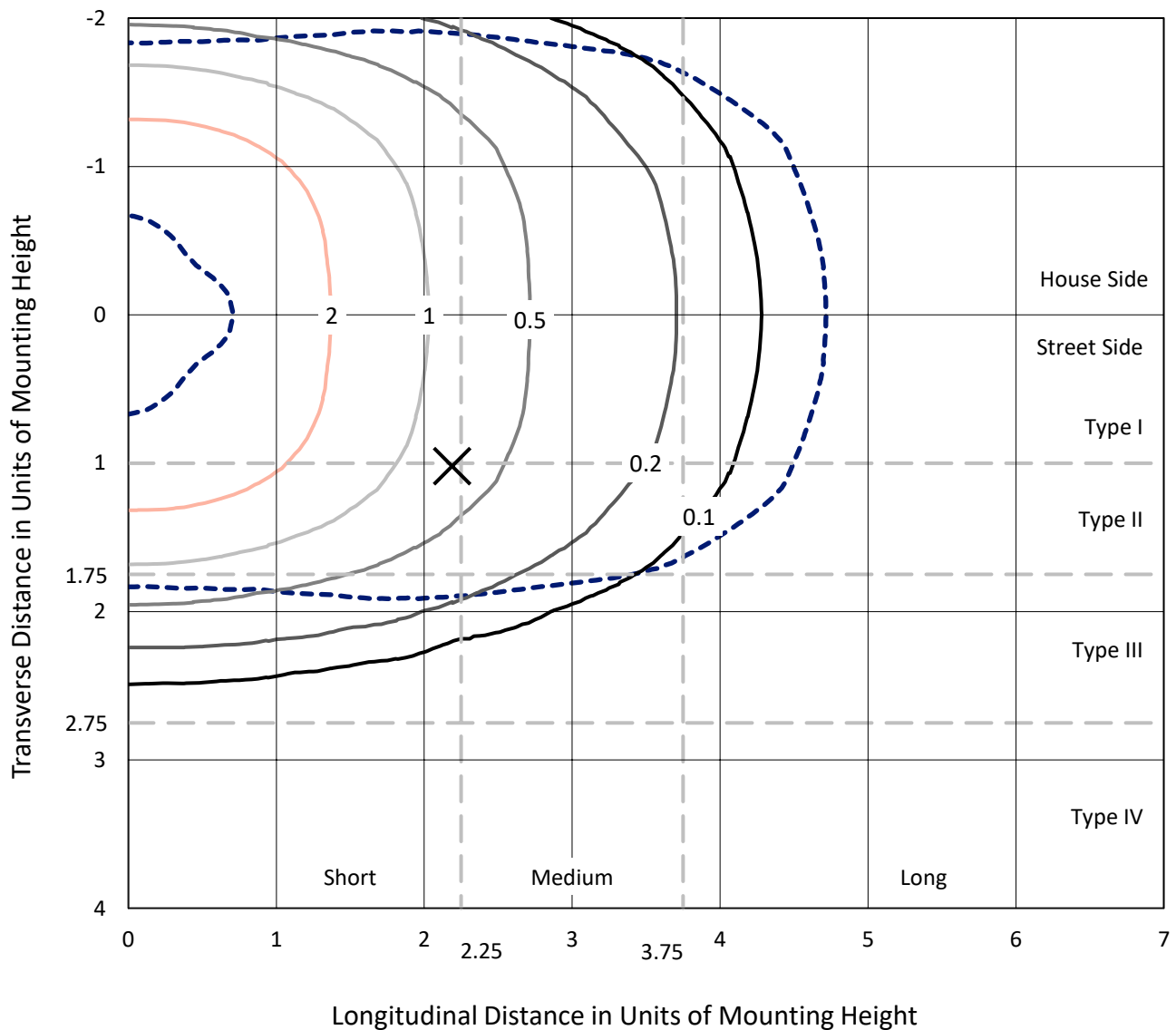


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

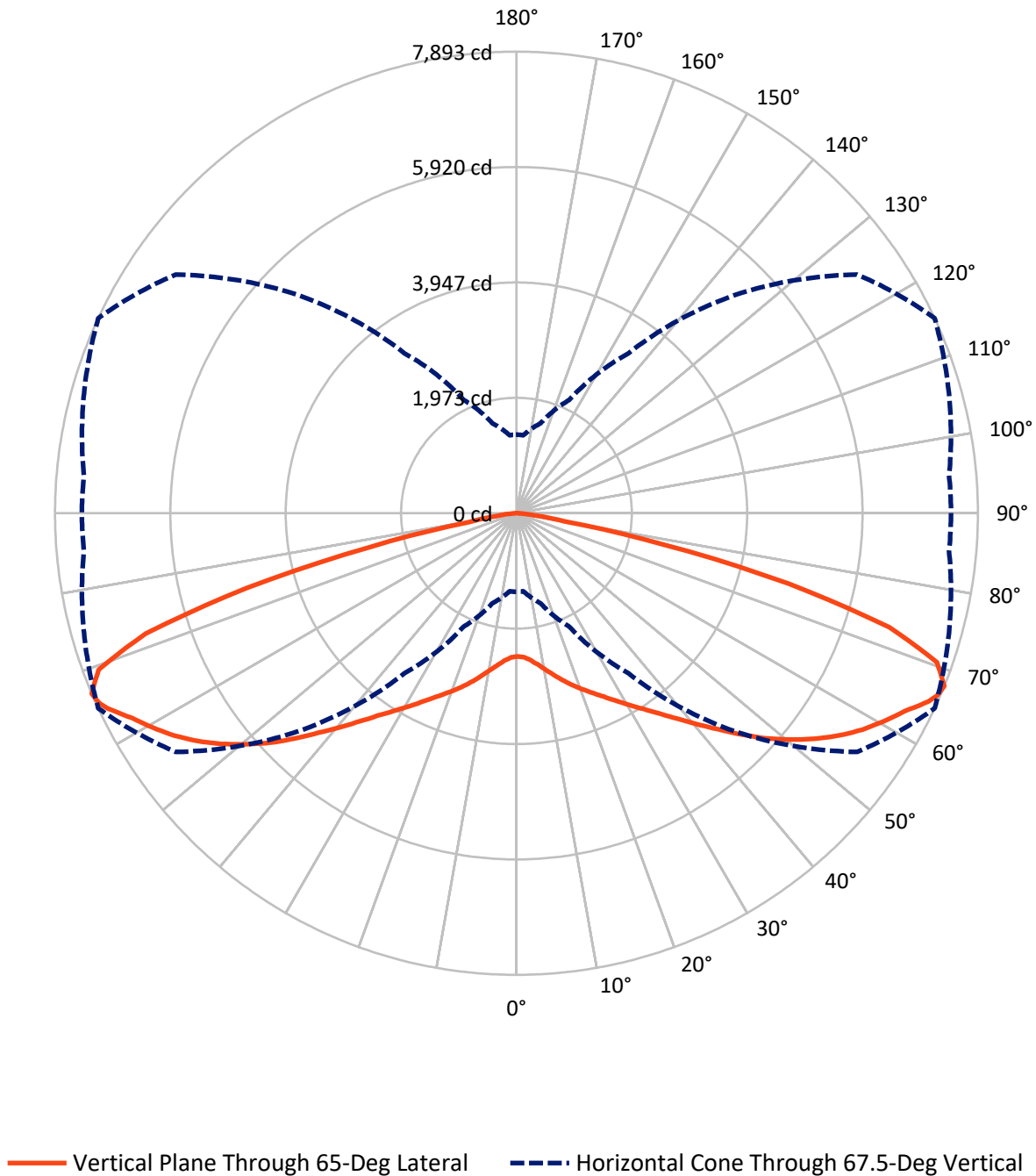


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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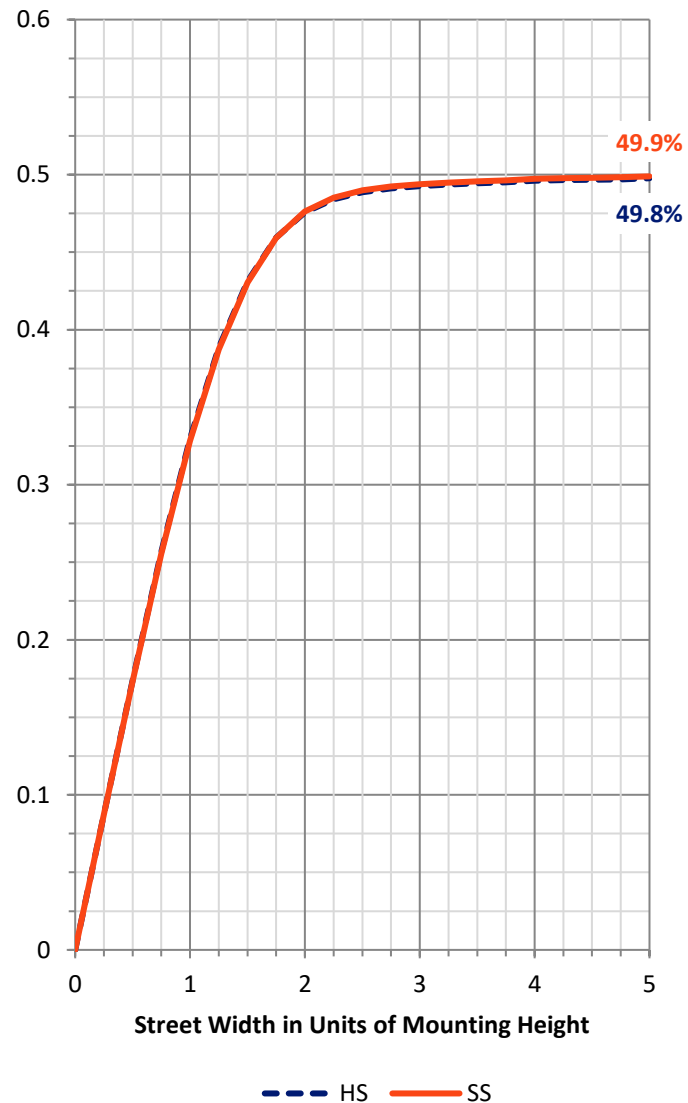
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11681.5	0.0	11681.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11681.5	0.0	11681.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23363.0	0.0	23363.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.3	1.0
10°-20°	807.8	3.5
20°-30°	1580.0	6.8
30°-40°	2687.5	11.5
40°-50°	4253.4	18.2
50°-60°	5640.0	24.1
60°-70°	5320.2	22.8
70°-80°	2630.1	11.3
80°-90°	202.7	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°	23363.0	100.0
0°-180°	23363.0	100.0

Coefficient of Utilization



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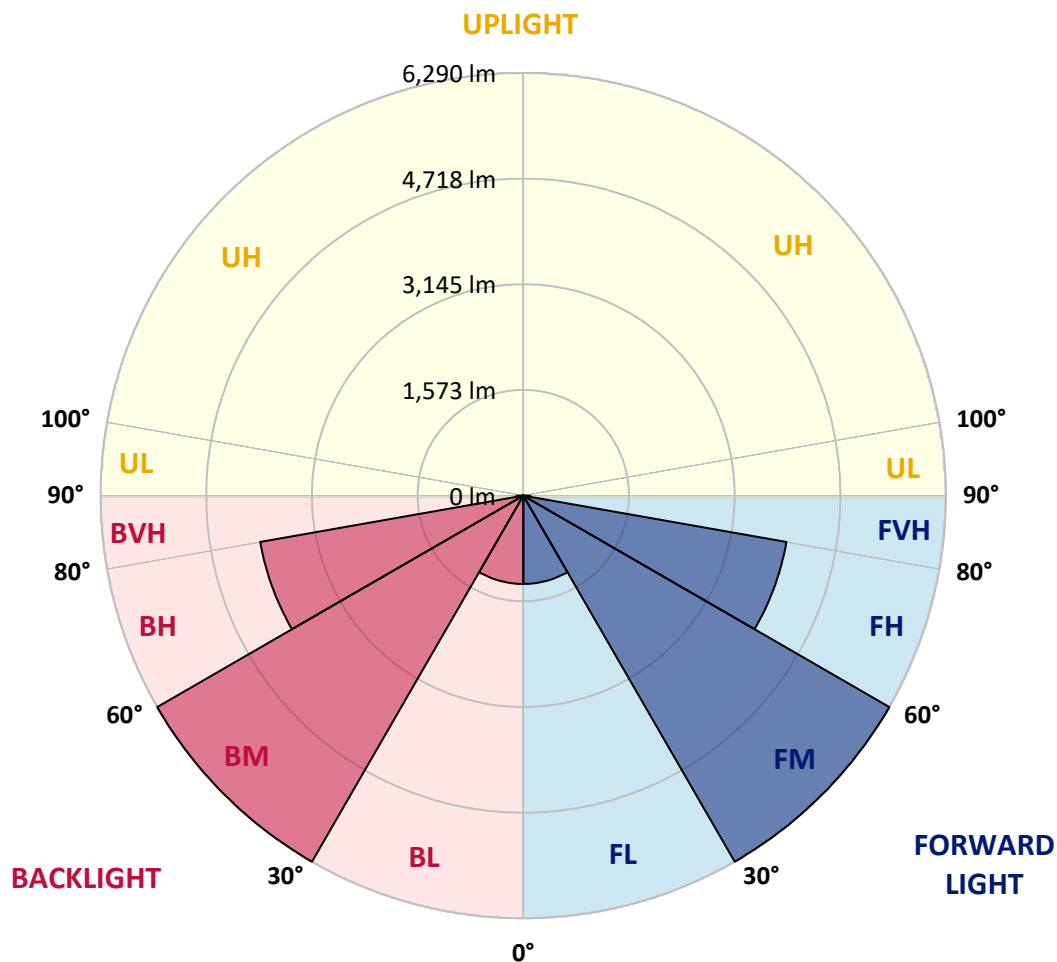
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1314.6	5.6			
FM	(30°-60°)	6290.4	26.9			
FH	(60°-80°)	3975.1	17.0			G2/5000
FVH	(80°-90°)	101.3	0.4			G2/225
BL	(0°-30°)	1314.6	5.6	B3/2500		
BM	(30°-60°)	6290.4	26.9	B4/8500		
BH	(60°-80°)	3975.1	17.0	B4/5000		G4/5000
BVH	(80°-90°)	101.3	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°	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1	2447.1
2.5°	2434.6	2437.1	2439.6	2443.3	2448.3	2455.8	2460.8	2464.6	2474.6	2475.9	2474.6
5°	2425.8	2428.3	2434.6	2445.8	2462.1	2484.6	2502.1	2523.4	2539.7	2551.0	2548.5
7.5°	2424.5	2429.5	2439.6	2463.3	2494.6	2533.4	2573.5	2609.8	2641.1	2666.1	2662.4
10°	2444.6	2450.8	2467.1	2502.1	2551.0	2607.3	2663.6	2717.4	2762.5	2795.0	2806.3
12.5°	2478.4	2483.4	2513.4	2566.0	2636.1	2706.2	2770.0	2836.3	2898.9	2954.0	2954.0
15°	2537.2	2546.0	2583.5	2659.9	2746.2	2827.6	2892.7	2962.8	3030.4	3092.9	3111.7
17.5°	2618.6	2631.1	2687.4	2785.0	2895.2	2970.3	3031.6	3089.2	3148.0	3208.1	3216.9
20°	2730.0	2742.5	2817.6	2935.2	3065.4	3155.5	3196.8	3210.6	3239.4	3297.0	3304.5
22.5°	2881.4	2893.9	2977.8	3110.5	3255.7	3353.3	3370.8	3338.3	3330.8	3375.8	3380.8
25°	3052.9	3064.2	3160.5	3303.2	3453.4	3559.8	3554.8	3474.7	3429.7	3457.2	3464.7
27.5°	3245.7	3261.9	3359.6	3507.3	3670.0	3763.9	3748.8	3632.4	3536.0	3531.0	3533.5
30°	3492.2	3509.8	3602.4	3743.8	3904.0	3990.4	3959.1	3802.7	3653.7	3603.6	3603.6
32.5°	3752.6	3796.4	3890.3	4038.0	4163.1	4225.7	4178.2	3990.4	3792.6	3722.5	3718.8
35°	4091.8	4115.6	4208.2	4352.2	4446.0	4494.8	4403.5	4201.9	3974.1	3891.5	3880.3
37.5°	4423.5	4443.5	4551.2	4688.9	4802.8	4800.3	4676.3	4453.5	4199.4	4106.8	4099.3
40°	4762.7	4784.0	4906.7	5033.1	5147.0	5137.0	4986.8	4737.7	4467.3	4363.4	4383.4
42.5°	5056.9	5080.6	5219.6	5399.8	5502.5	5500.0	5326.0	5045.6	4764.0	4671.3	4688.9
45°	5324.7	5346.0	5507.5	5714.0	5864.2	5883.0	5692.7	5396.1	5106.9	4988.0	4993.0
47.5°	5513.7	5553.8	5722.8	5959.3	6163.4	6229.7	6043.2	5752.8	5419.8	5295.9	5303.4
50°	5657.7	5682.7	5866.7	6135.8	6393.7	6531.4	6381.2	6083.2	5732.8	5601.3	5618.9
52.5°	5675.2	5705.2	5905.5	6215.9	6546.4	6755.4	6681.6	6406.2	6052.0	5916.8	5954.3
55°	5532.5	5550.0	5789.1	6165.9	6606.5	6921.9	6940.7	6706.6	6356.1	6253.5	6278.5
57.5°	5125.7	5170.8	5473.7	5931.8	6523.8	7010.8	7134.7	6979.5	6664.0	6562.6	6602.7
60°	4458.5	4503.6	4807.8	5388.6	6212.2	6969.5	7294.9	7221.0	6943.2	6861.8	6883.1
62.5°	3493.5	3489.7	3866.5	4578.7	5592.6	6766.7	7413.8	7453.9	7218.5	7115.9	7148.4
65°	2264.3	2275.6	2639.8	3407.1	4657.6	6251.0	7440.1	7750.5	7488.9	7333.7	7357.5
66°	1821.2	1855.0	2164.2	2871.4	4180.7	5913.0	7361.2	7838.1	7571.5	7383.8	7395.0
67.5°	1344.3	1338.1	1592.2	2137.9	3338.3	5270.9	7114.6	7893.2	7665.4	7428.8	7433.8
70°	767.3	766.0	856.2	1174.1	1962.7	3711.3	5996.9	7629.1	7855.7	7591.5	7577.8
72.5°	560.8	557.0	569.5	648.4	957.5	1873.8	4136.9	6667.8	7758.0	7565.3	7526.5
75°	470.6	468.1	465.6	475.6	537.0	848.7	2195.5	4796.5	6731.6	7100.9	7060.8
77.5°	384.3	384.3	385.5	383.0	385.5	446.9	910.0	2571.0	4099.3	4576.2	4687.6
80°	300.4	299.2	320.4	311.7	291.6	286.6	403.0	827.4	1360.6	1353.1	1116.5
82.5°	221.6	206.5	244.1	237.8	215.3	182.7	235.3	353.0	454.4	295.4	219.0
85°	140.2	138.9	172.7	157.7	131.4	86.4	112.7	151.5	187.8	113.9	92.6
87.5°	25.0	23.8	55.1	40.1	40.1	25.0	31.3	41.3	61.3	42.6	31.3
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)