

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: P452917

Luminaire Tested: **GALN-SA3D-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19152 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 184
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

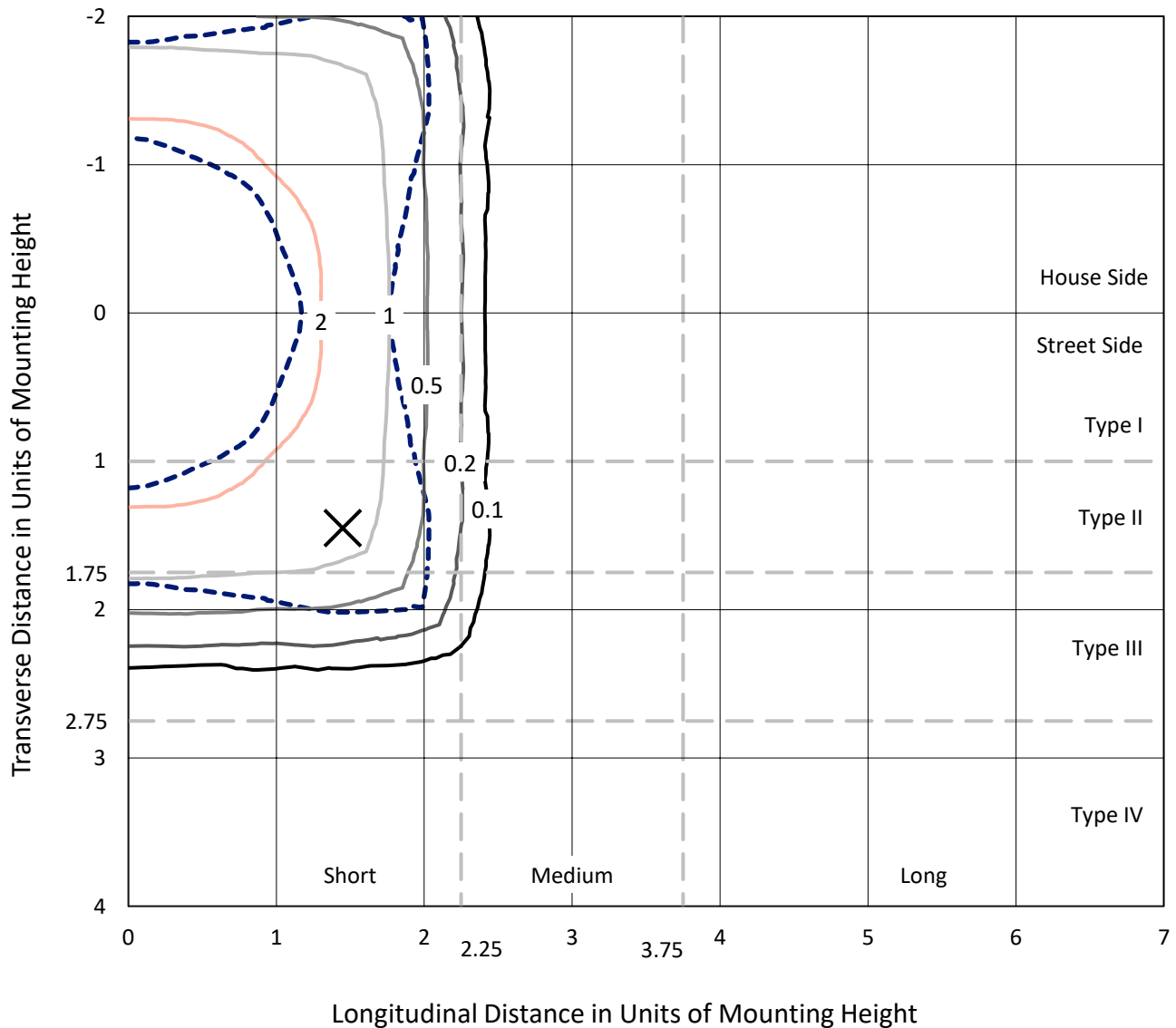


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

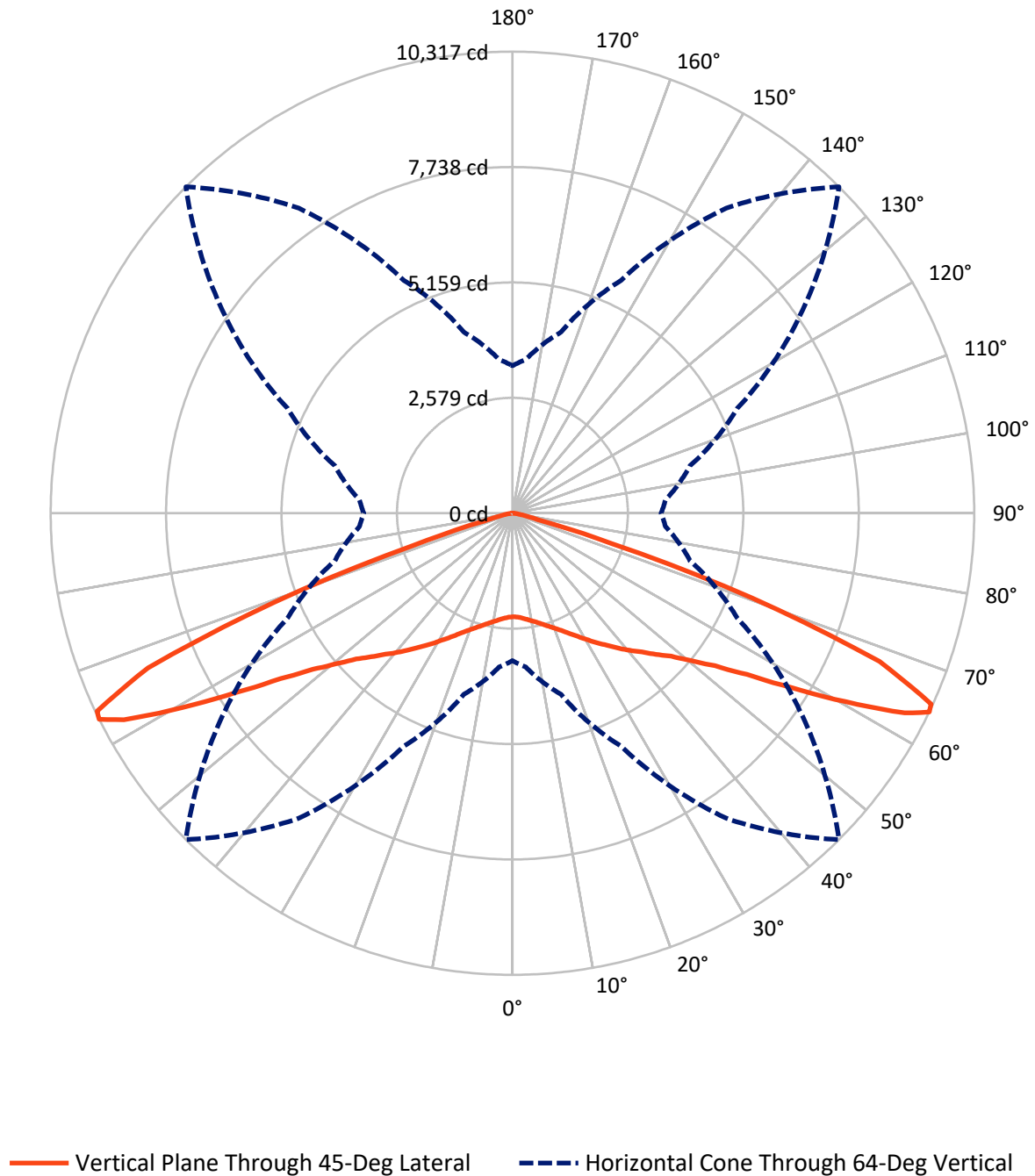


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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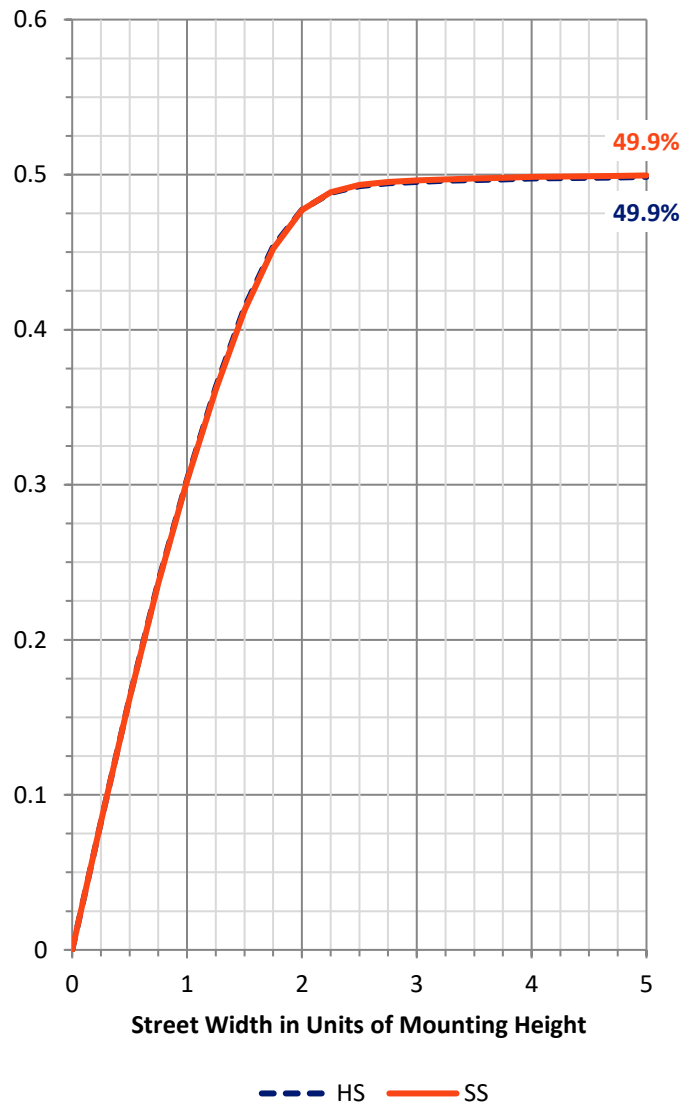
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9576.0	0.0	9576.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9576.0	0.0	9576.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19152.0	0.0	19152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.4	1.2
10°-20°	733.6	3.8
20°-30°	1386.2	7.2
30°-40°	2295.8	12.0
40°-50°	3584.0	18.7
50°-60°	5540.9	28.9
60°-70°	4777.8	24.9
70°-80°	541.4	2.8
80°-90°	64.9	0.3
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°	19152.0	100.0
0°-180°	19152.0	100.0

Coefficient of Utilization



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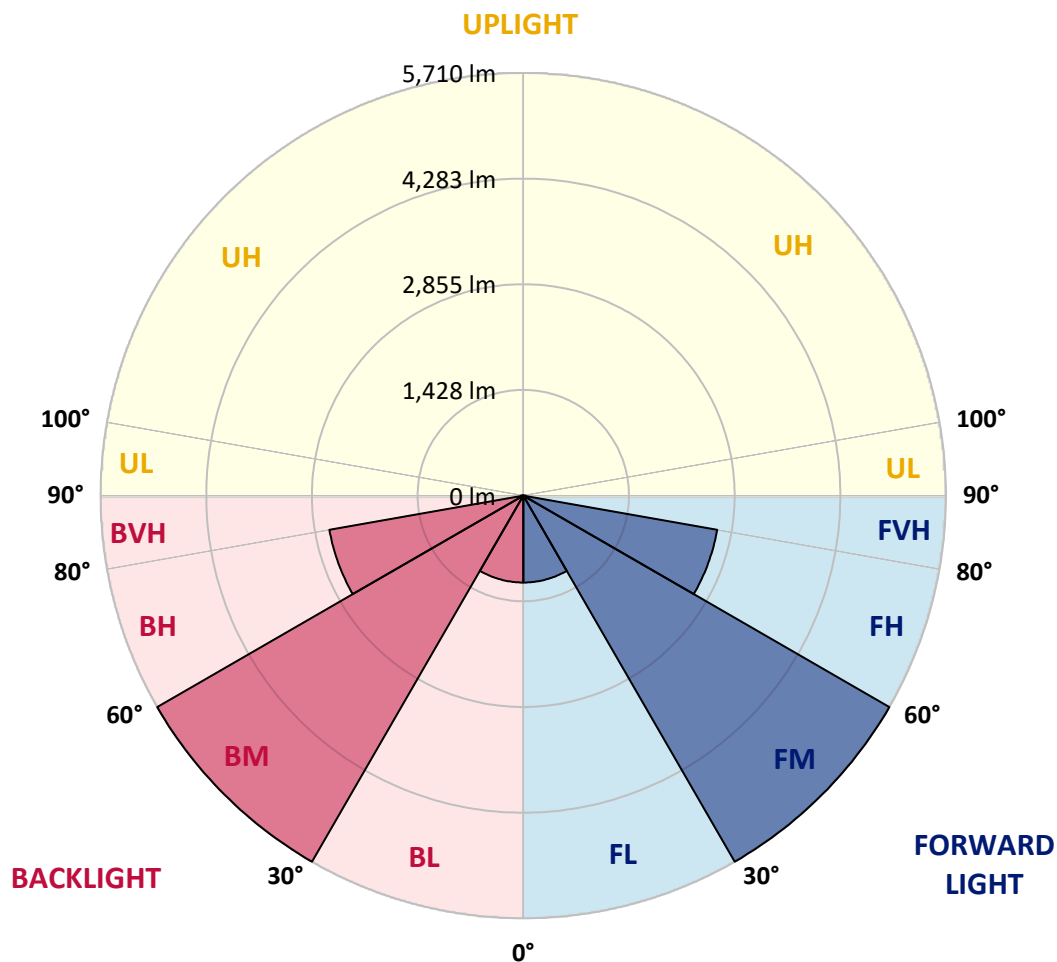
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1173.6	6.1			
FM	(30°-60°)	5710.3	29.8			
FH	(60°-80°)	2659.6	13.9			G2/5000
FVH	(80°-90°)	32.4	0.2			G1/100
BL	(0°-30°)	1173.6	6.1	B3/2500		
BM	(30°-60°)	5710.3	29.8	B4/8500		
BH	(60°-80°)	2659.6	13.9	B4/5000		G2/5000
BVH	(80°-90°)	32.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2314.8	2314.8	2314.8	2314.8	2314.8	2314.8	2314.8	2314.8	2314.8	2314.8	2314.8
2.5°	2324.0	2329.0	2325.0	2324.0	2323.0	2323.0	2323.0	2324.0	2328.0	2331.1	2329.0
5°	2353.4	2357.4	2355.4	2354.4	2353.4	2353.4	2352.4	2351.4	2354.4	2354.4	2353.4
7.5°	2389.9	2395.0	2392.9	2395.0	2396.0	2397.0	2391.9	2387.9	2386.9	2389.9	2387.9
10°	2439.6	2443.7	2444.7	2445.7	2447.7	2446.7	2440.6	2433.5	2432.5	2431.5	2430.5
12.5°	2495.4	2498.4	2499.5	2503.5	2506.6	2507.6	2500.5	2494.4	2484.2	2486.3	2482.2
15°	2558.3	2564.4	2563.4	2569.5	2577.6	2579.6	2572.5	2562.4	2553.2	2548.2	2545.1
17.5°	2635.4	2639.4	2637.4	2643.5	2653.6	2658.7	2652.6	2639.4	2630.3	2619.2	2613.1
20°	2726.7	2733.8	2735.8	2735.8	2744.9	2750.0	2740.9	2736.8	2722.6	2714.5	2709.4
22.5°	2830.2	2833.2	2839.3	2845.4	2854.5	2852.5	2849.4	2843.3	2830.2	2823.1	2814.9
25°	2946.8	2949.9	2965.1	2978.3	2981.3	2979.3	2975.2	2972.2	2960.0	2943.8	2937.7
27.5°	3082.7	3088.8	3109.1	3121.3	3121.3	3122.3	3114.2	3124.3	3098.0	3078.7	3076.6
30°	3253.2	3257.2	3274.5	3286.6	3280.5	3275.5	3273.4	3283.6	3255.2	3220.7	3212.6
32.5°	3421.5	3435.7	3451.0	3477.3	3456.0	3446.9	3444.9	3452.0	3419.5	3381.0	3369.8
35°	3602.1	3612.2	3640.7	3663.0	3643.7	3622.4	3631.5	3653.8	3615.3	3563.6	3561.5
37.5°	3801.9	3811.1	3847.6	3870.9	3856.7	3820.2	3835.4	3861.8	3823.2	3759.3	3746.1
40°	4009.9	4029.2	4074.8	4099.2	4075.8	4027.1	4055.5	4083.9	4049.5	3975.4	3946.0
42.5°	4243.2	4273.6	4339.6	4351.7	4307.1	4241.2	4290.9	4336.5	4312.2	4227.0	4215.8
45°	4516.1	4534.3	4615.5	4641.9	4580.0	4497.8	4559.7	4642.9	4624.6	4526.2	4504.9
47.5°	4821.4	4838.6	4922.8	4962.4	4884.3	4773.7	4885.3	4993.8	4982.7	4877.2	4867.1
50°	5182.5	5186.6	5303.2	5347.9	5269.8	5174.4	5273.8	5408.7	5364.1	5229.2	5227.2
52.5°	5578.1	5583.2	5730.3	5816.5	5772.9	5665.4	5783.0	5865.2	5751.6	5575.1	5561.9
55°	5921.0	5946.4	6147.2	6376.5	6436.3	6358.2	6393.7	6355.2	6075.2	5827.7	5789.1
57.5°	6061.0	6110.7	6416.0	6844.1	7233.6	7349.3	7075.4	6708.2	6204.0	5854.1	5816.5
60°	5719.1	5772.9	6246.6	7059.1	8053.3	8555.4	7785.5	6768.0	5910.9	5418.9	5360.0
62.5°	4580.0	4595.2	5292.1	6553.0	8531.0	9831.5	8084.7	6257.8	5057.8	4389.3	4365.9
64°	3295.8	3452.0	4190.5	5745.5	8322.1	10317.4	7912.3	5542.6	4108.3	3431.7	3322.1
65°	2465.0	2507.6	3377.9	4906.6	7953.8	10280.9	7577.5	4858.9	3402.3	2626.3	2504.5
67.5°	931.2	936.3	1246.7	2445.7	5662.3	8845.5	5783.0	2643.5	1433.3	1036.7	999.2
70°	386.5	393.6	457.5	822.7	2433.5	5679.6	2788.6	953.5	524.4	425.0	418.9
72.5°	283.0	287.1	306.3	365.2	748.6	2332.1	917.0	404.7	307.4	274.9	271.9
75°	222.2	224.2	238.4	268.8	349.0	646.2	381.4	277.9	234.3	211.0	209.0
77.5°	169.4	174.5	184.6	204.9	234.3	306.3	252.6	208.0	180.6	161.3	158.2
80°	116.7	122.7	142.0	150.1	157.2	198.8	172.4	157.2	141.0	117.7	110.6
82.5°	72.0	76.1	95.4	102.5	99.4	111.6	110.6	112.6	100.4	73.0	68.0
85°	37.5	39.6	51.7	53.8	49.7	45.6	56.8	65.9	61.9	41.6	40.6
87.5°	8.1	9.1	11.2	10.1	11.2	11.2	14.2	21.3	22.3	14.2	13.2
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)