

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: P453845

Luminaire Tested: **GALN-SA4D-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453845
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-SA4D-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 25379 lumens
Efficiency: N/A
Efficacy: 103.6 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): 245
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

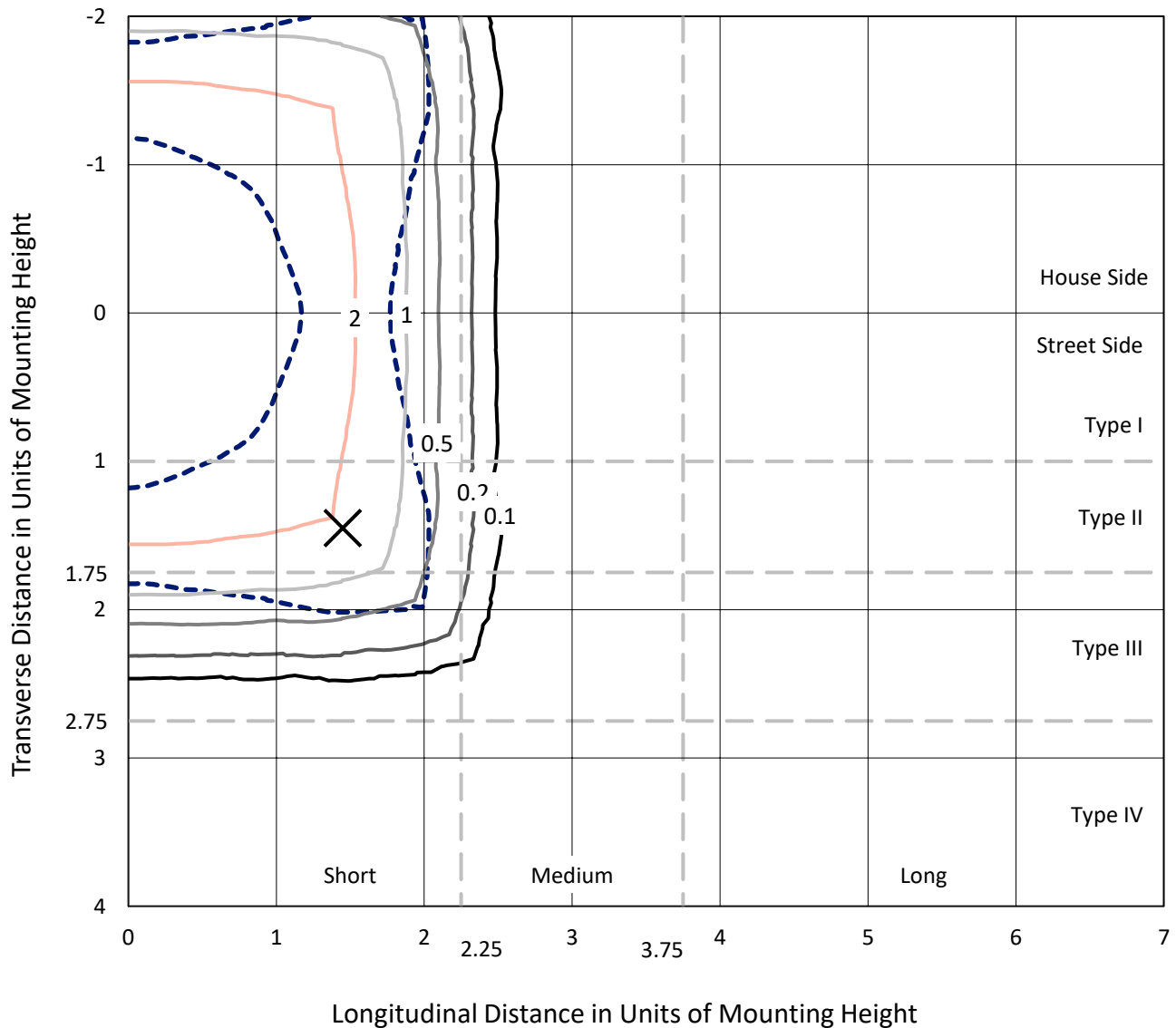


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



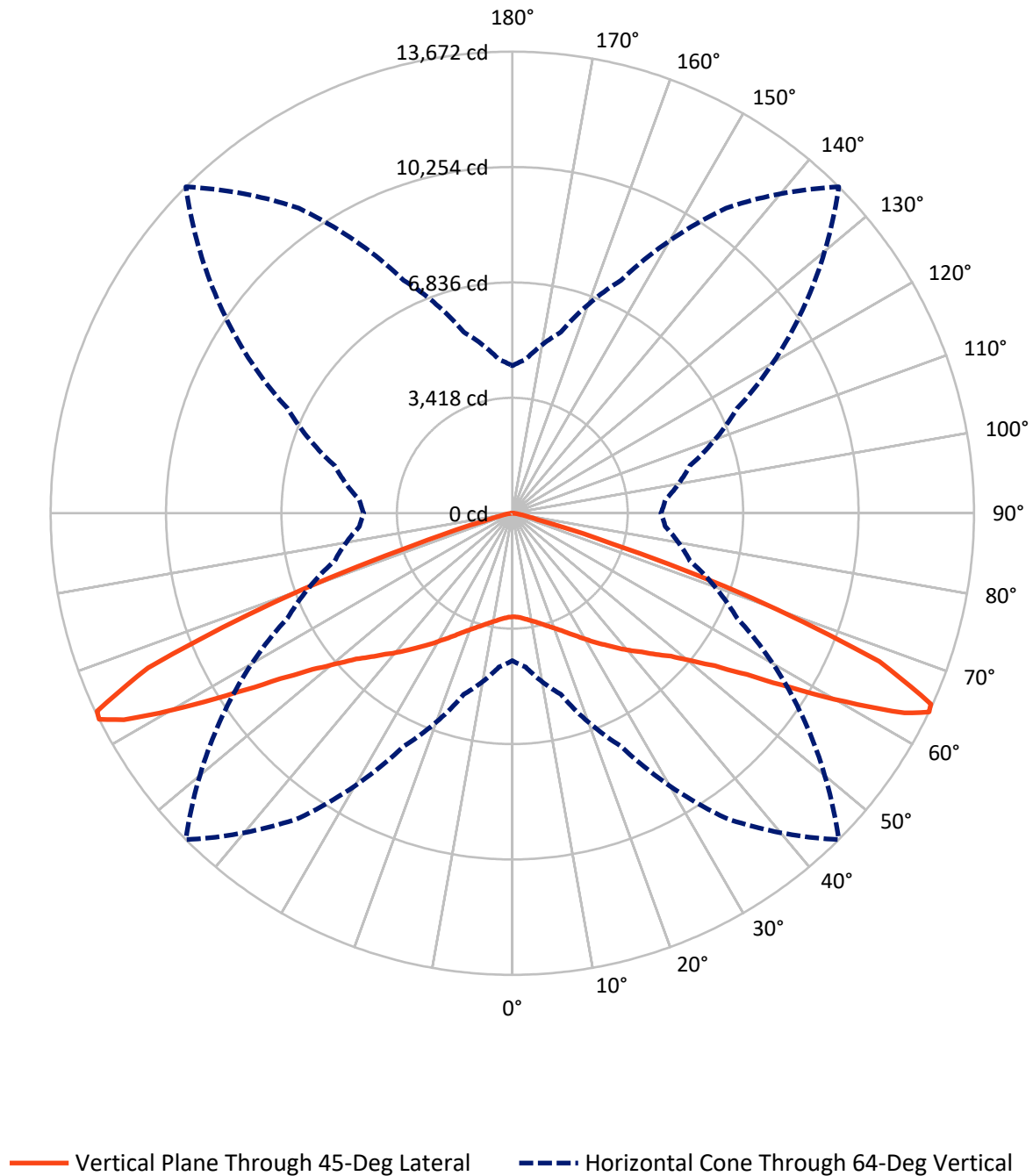
Based on 25 foot mounting height. Maximum calculated value = 5 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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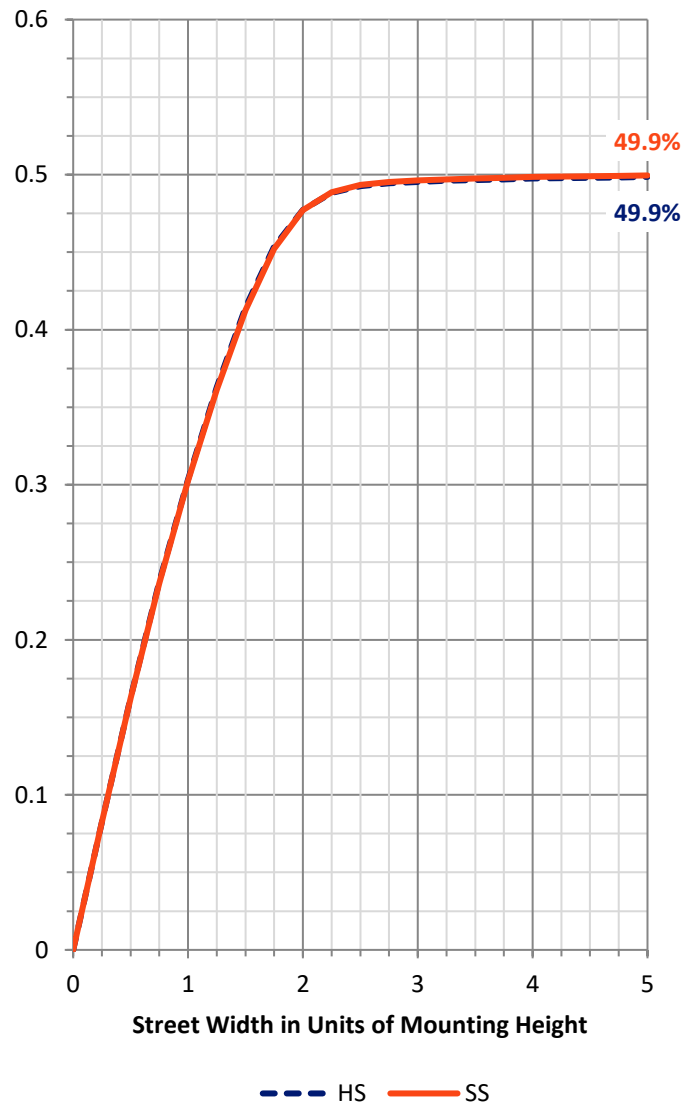
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12689.5	0.0	12689.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12689.5	0.0	12689.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25379.0	0.0	25379.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.4	1.2
10°-20°	972.1	3.8
20°-30°	1836.9	7.2
30°-40°	3042.2	12.0
40°-50°	4749.3	18.7
50°-60°	7342.4	28.9
60°-70°	6331.2	24.9
70°-80°	717.5	2.8
80°-90°	86.0	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°	25379.0	100.0
0°-180°	25379.0	100.0

Coefficient of Utilization



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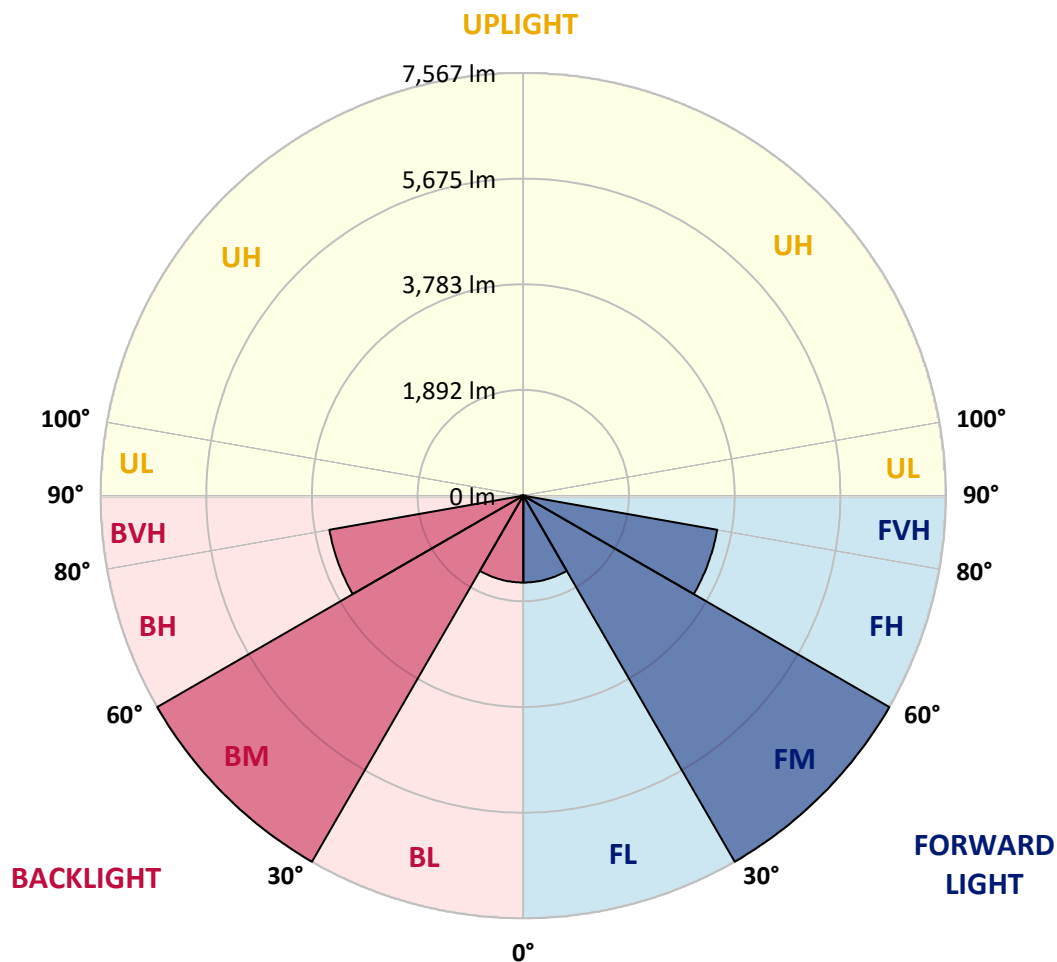
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1555.2	6.1			
FM	(30°-60°)	7567.0	29.8			
FH	(60°-80°)	3524.4	13.9			G2/5000
FVH	(80°-90°)	43.0	0.2			G1/100
BL	(0°-30°)	1555.2	6.1	B3/2500		
BM	(30°-60°)	7567.0	29.8	B4/8500		
BH	(60°-80°)	3524.4	13.9	B4/5000		G2/5000
BVH	(80°-90°)	43.0	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°	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5	3067.5
2.5°	3079.6	3086.3	3080.9	3079.6	3078.2	3078.2	3078.2	3079.6	3085.0	3089.0	3086.3
5°	3118.6	3123.9	3121.2	3119.9	3118.6	3119.9	3117.2	3115.9	3119.9	3119.9	3118.6
7.5°	3167.0	3173.7	3171.0	3173.7	3175.0	3176.4	3169.6	3164.3	3162.9	3167.0	3164.3
10°	3232.8	3238.2	3239.5	3240.9	3243.6	3242.2	3234.2	3224.8	3223.4	3222.1	3220.7
12.5°	3306.7	3310.8	3312.1	3317.5	3321.5	3322.9	3313.5	3305.4	3292.0	3294.6	3289.3
15°	3390.1	3398.2	3396.8	3404.9	3415.6	3418.3	3408.9	3395.5	3383.4	3376.6	3372.6
17.5°	3492.2	3497.6	3494.9	3503.0	3516.4	3523.2	3515.1	3497.6	3485.5	3470.7	3462.7
20°	3613.2	3622.6	3625.3	3625.3	3637.4	3644.1	3632.0	3626.7	3607.8	3597.1	3590.4
22.5°	3750.3	3754.4	3762.4	3770.5	3782.6	3779.9	3775.9	3767.8	3750.3	3740.9	3730.2
25°	3904.9	3909.0	3929.1	3946.6	3950.6	3947.9	3942.6	3938.5	3922.4	3900.9	3892.8
27.5°	4085.0	4093.1	4120.0	4136.1	4136.1	4137.5	4126.7	4140.2	4105.2	4079.7	4077.0
30°	4310.9	4316.2	4339.1	4355.2	4347.2	4340.4	4337.8	4351.2	4313.6	4267.9	4257.1
32.5°	4534.0	4552.8	4573.0	4607.9	4579.7	4567.6	4564.9	4574.3	4531.3	4480.2	4465.5
35°	4773.3	4786.7	4824.4	4853.9	4828.4	4800.2	4812.3	4841.8	4790.8	4722.2	4719.5
37.5°	5038.1	5050.2	5098.6	5129.5	5110.7	5062.3	5082.4	5117.4	5066.3	4981.6	4964.2
40°	5313.6	5339.2	5399.7	5431.9	5401.0	5336.5	5374.1	5411.8	5366.1	5267.9	5229.0
42.5°	5622.8	5663.1	5750.5	5766.6	5707.5	5620.1	5686.0	5746.5	5714.2	5601.3	5586.5
45°	5984.4	6008.6	6116.1	6151.1	6069.1	5960.2	6042.2	6152.4	6128.2	5997.8	5969.6
47.5°	6389.0	6411.9	6523.4	6575.9	6472.4	6325.8	6473.7	6617.5	6602.7	6462.9	6449.5
50°	6867.6	6872.9	7027.5	7086.7	6983.2	6856.8	6988.5	7167.3	7108.2	6929.4	6926.7
52.5°	7391.8	7398.5	7593.4	7707.7	7649.9	7507.4	7663.3	7772.2	7621.7	7387.8	7370.3
55°	7846.1	7879.7	8145.9	8449.7	8529.0	8425.5	8472.5	8421.5	8050.5	7722.5	7671.4
57.5°	8031.6	8097.5	8502.1	9069.4	9585.5	9738.8	9375.8	8889.2	8221.2	7757.4	7707.7
60°	7578.6	7649.9	8277.6	9354.3	10671.7	11337.0	10316.8	8968.5	7832.7	7180.8	7102.8
62.5°	6069.1	6089.3	7012.7	8683.6	11304.8	13028.0	10713.3	8292.4	6702.2	5816.4	5785.5
64°	4367.3	4574.3	5552.9	7613.6	11027.9	13671.9	10484.8	7344.7	5444.0	4547.5	4402.3
65°	3266.4	3322.9	4476.2	6501.9	10539.9	13623.5	10041.2	6438.7	4508.5	3480.2	3318.8
67.5°	1234.0	1240.7	1652.0	3240.9	7503.4	11721.5	7663.3	3503.0	1899.4	1373.8	1324.0
70°	512.1	521.6	606.2	1090.2	3224.8	7526.2	3695.2	1263.6	695.0	563.2	555.2
72.5°	375.0	380.4	406.0	483.9	992.0	3090.3	1215.2	536.3	407.3	364.3	360.2
75°	294.4	297.1	315.9	356.2	462.4	856.3	505.4	368.3	310.5	279.6	276.9
77.5°	224.5	231.2	244.6	271.5	310.5	406.0	334.7	275.6	239.3	213.7	209.7
80°	154.6	162.6	188.2	198.9	208.4	263.5	228.5	208.4	186.8	155.9	146.5
82.5°	95.4	100.8	126.4	135.8	131.7	147.9	146.5	149.2	133.1	96.8	90.1
85°	49.7	52.4	68.6	71.2	65.9	60.5	75.3	87.4	82.0	55.1	53.8
87.5°	10.8	12.1	14.8	13.4	14.8	14.8	18.8	28.2	29.6	18.8	17.5
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)