

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: P458021

Luminaire Tested: **GALN-SA9B-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458021
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-SA9B-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42780 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): 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

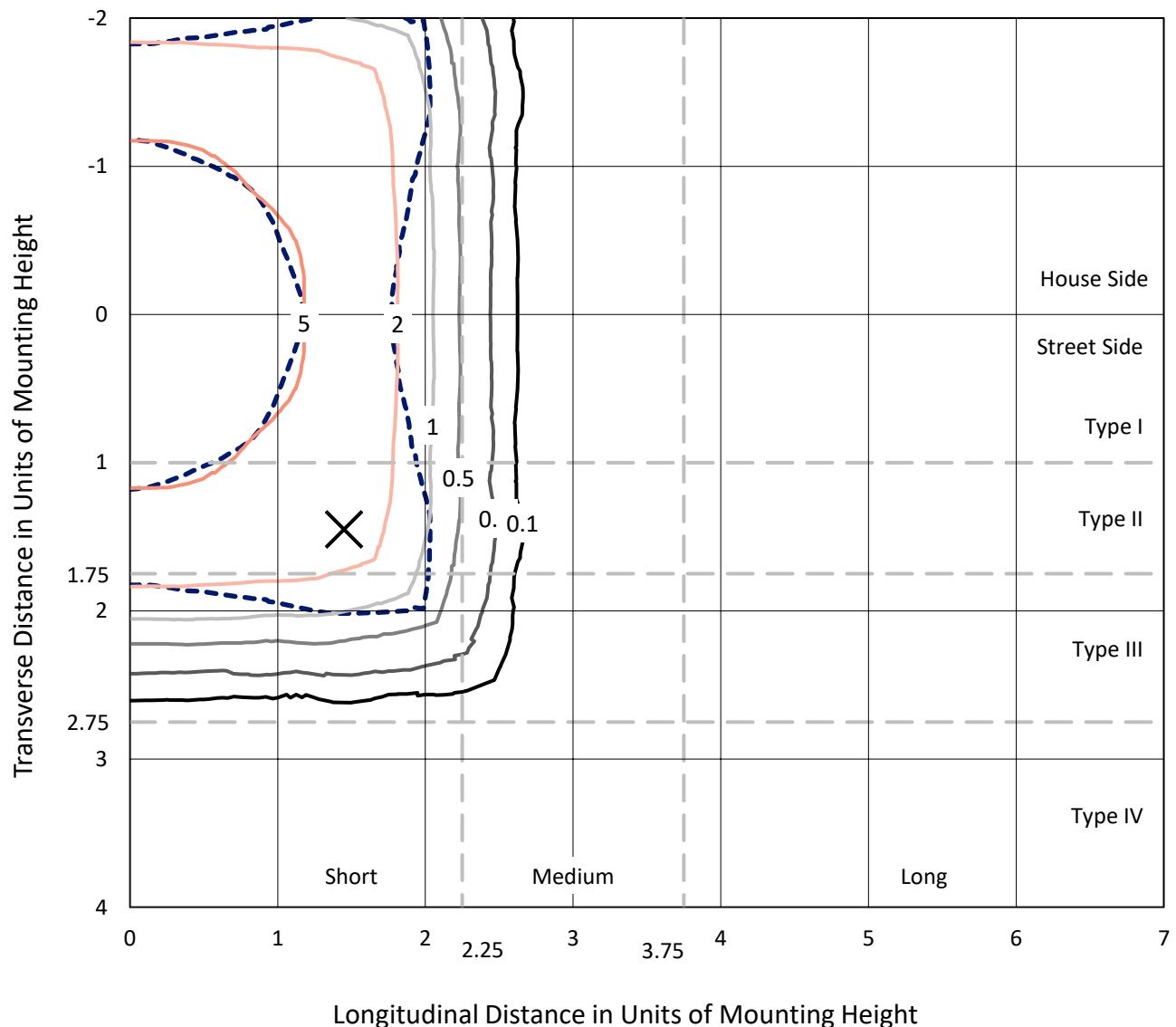


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

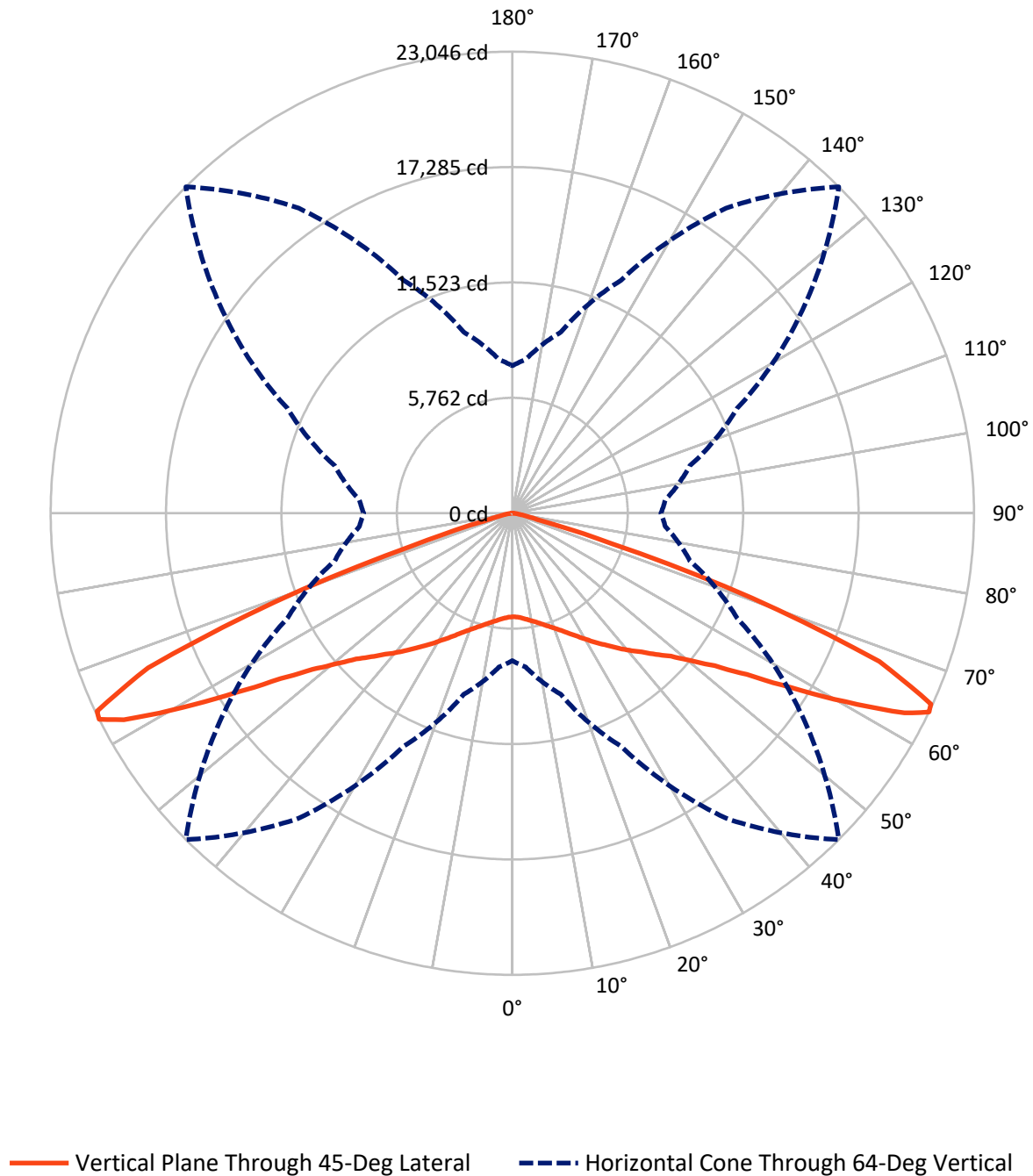


Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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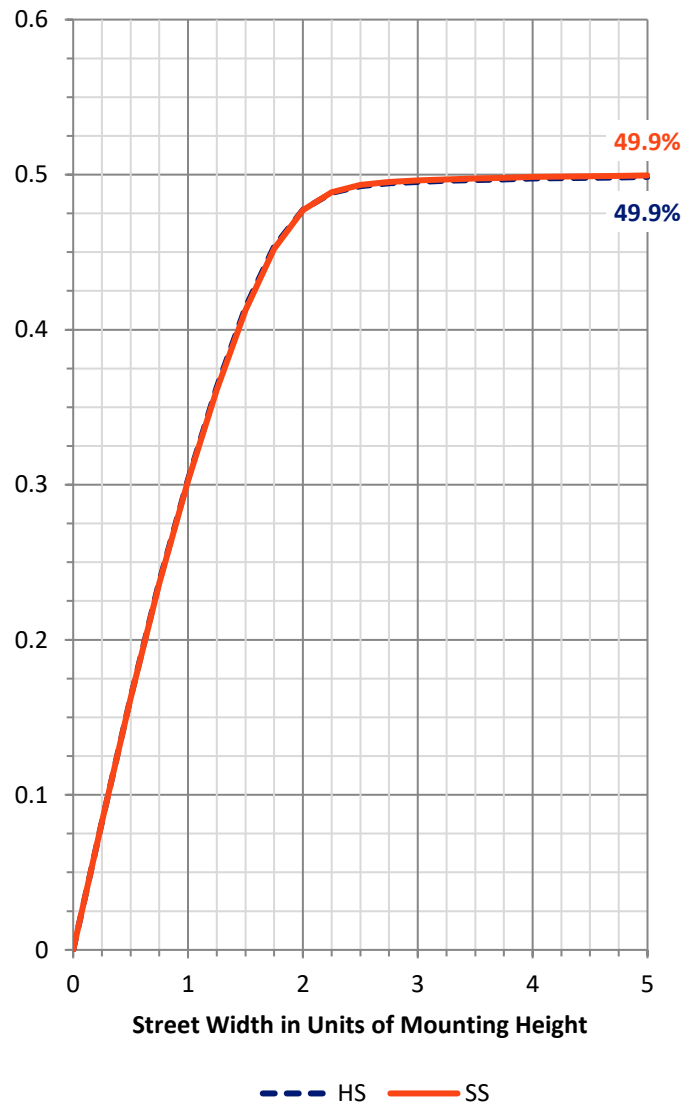
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21390.0	0.0	21390.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21390.0	0.0	21390.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	42780.0	0.0	42780.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.0	1.2
10°-20°	1638.6	3.8
20°-30°	3096.4	7.2
30°-40°	5128.1	12.0
40°-50°	8005.7	18.7
50°-60°	12376.7	28.9
60°-70°	10672.2	24.9
70°-80°	1209.4	2.8
80°-90°	144.9	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°	42780.0	100.0
0°-180°	42780.0	100.0

Coefficient of Utilization



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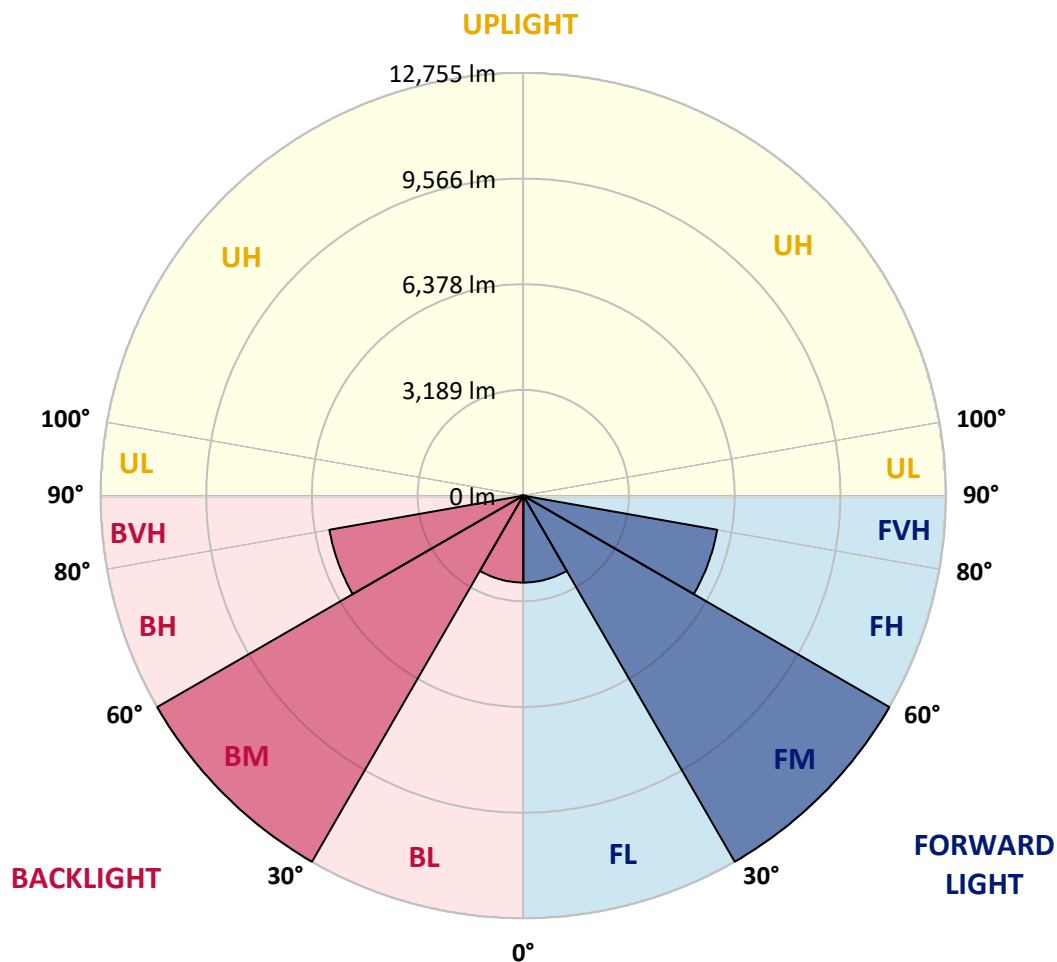
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2621.5	6.1			
FM	(30°-60°)	12755.2	29.8			
FH	(60°-80°)	5940.8	13.9			G3/7500
FVH	(80°-90°)	72.4	0.2			G1/100
BL	(0°-30°)	2621.5	6.1	B4/5000		
BM	(30°-60°)	12755.2	29.8	B5		
BH	(60°-80°)	5940.8	13.9	B5		G3/7500
BVH	(80°-90°)	72.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5170.7	5170.7	5170.7	5170.7	5170.7	5170.7	5170.7	5170.7	5170.7	5170.7	5170.7
2.5°	5191.1	5202.4	5193.3	5191.1	5188.8	5188.8	5188.8	5191.1	5200.1	5206.9	5202.4
5°	5256.8	5265.8	5261.3	5259.1	5256.8	5259.1	5254.5	5252.3	5259.1	5259.1	5256.8
7.5°	5338.4	5349.7	5345.2	5349.7	5352.0	5354.2	5342.9	5333.8	5331.6	5338.4	5333.8
10°	5449.4	5458.4	5460.7	5463.0	5467.5	5465.2	5451.6	5435.8	5433.5	5431.3	5429.0
12.5°	5574.0	5580.8	5583.1	5592.1	5598.9	5601.2	5585.3	5571.7	5549.1	5553.6	5544.5
15°	5714.5	5728.1	5725.8	5739.4	5757.5	5762.1	5746.2	5723.6	5703.2	5691.8	5685.0
17.5°	5886.7	5895.8	5891.2	5904.8	5927.5	5938.8	5925.2	5895.8	5875.4	5850.4	5836.8
20°	6090.6	6106.5	6111.0	6111.0	6131.4	6142.7	6122.3	6113.3	6081.6	6063.4	6052.1
22.5°	6321.7	6328.5	6342.1	6355.7	6376.1	6371.6	6364.8	6351.2	6321.7	6305.9	6287.7
25°	6582.3	6589.1	6623.1	6652.6	6659.3	6654.8	6645.8	6639.0	6611.8	6575.5	6561.9
27.5°	6885.9	6899.5	6944.8	6972.0	6972.0	6974.3	6956.2	6978.8	6919.9	6876.9	6872.3
30°	7266.6	7275.7	7314.2	7341.4	7327.8	7316.4	7311.9	7334.6	7271.1	7194.1	7176.0
32.5°	7642.7	7674.5	7708.4	7767.4	7719.8	7699.4	7694.8	7710.7	7638.2	7552.1	7527.2
35°	8046.1	8068.7	8132.2	8182.0	8139.0	8091.4	8111.8	8161.6	8075.5	7960.0	7955.4
37.5°	8492.4	8512.8	8594.4	8646.5	8614.8	8533.2	8567.2	8626.1	8540.0	8397.3	8367.8
40°	8956.9	9000.0	9101.9	9156.3	9104.2	8995.4	9058.9	9122.3	9045.3	8879.9	8814.2
42.5°	9478.1	9546.0	9693.3	9720.5	9620.8	9473.5	9584.6	9686.5	9632.2	9441.8	9416.9
45°	10087.6	10128.4	10309.6	10368.6	10230.3	10046.8	10185.0	10370.8	10330.0	10110.2	10062.7
47.5°	10769.6	10808.1	10996.2	11084.6	10910.1	10663.1	10912.4	11154.8	11129.9	10894.2	10871.6
50°	11576.3	11585.3	11845.9	11945.6	11771.1	11558.1	11780.2	12081.5	11981.8	11680.5	11676.0
52.5°	12459.9	12471.3	12799.8	12992.4	12895.0	12654.8	12917.6	13101.2	12847.4	12453.1	12423.7
55°	13225.8	13282.4	13731.1	14243.2	14376.9	14202.4	14281.7	14195.6	13570.2	13017.3	12931.2
57.5°	13538.5	13649.5	14331.5	15287.7	16157.8	16416.1	15804.3	14984.1	13858.0	13076.3	12992.4
60°	12774.9	12895.0	13953.1	15768.1	17988.6	19110.2	17390.4	15117.8	13203.1	12104.2	11972.8
62.5°	10230.3	10264.3	11821.0	14637.4	19055.8	21960.7	18058.9	13978.1	11297.6	9804.4	9752.2
64°	7361.8	7710.7	9360.2	12833.8	18589.1	23046.0	17673.7	12380.6	9176.7	7665.4	7420.7
65°	5506.0	5601.2	7545.3	10959.9	17766.6	22964.4	16925.9	10853.4	7599.7	5866.3	5594.4
67.5°	2080.1	2091.4	2784.7	5463.0	12648.0	19758.3	12917.6	5904.8	3201.7	2315.7	2231.9
70°	863.3	879.2	1021.9	1837.6	5435.8	12686.5	6228.8	2129.9	1171.4	949.4	935.8
72.5°	632.2	641.2	684.3	815.7	1672.2	5209.2	2048.3	904.1	686.6	614.0	607.2
75°	496.2	500.8	532.5	600.5	779.5	1443.3	852.0	620.8	523.4	471.3	466.8
77.5°	378.4	389.7	412.4	457.7	523.4	684.3	564.2	464.5	403.3	360.3	353.5
80°	260.6	274.2	317.2	335.3	351.2	444.1	385.2	351.2	315.0	262.8	247.0
82.5°	160.9	169.9	213.0	228.9	222.1	249.2	247.0	251.5	224.3	163.1	151.8
85°	83.8	88.4	115.6	120.1	111.0	102.0	126.9	147.3	138.2	92.9	90.6
87.5°	18.1	20.4	24.9	22.7	24.9	24.9	31.7	47.6	49.8	31.7	29.5
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)