

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: P457093

Luminaire Tested: **GALN-SA8B-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457093
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-SA8B-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 38105 lumens
Efficiency: N/A
Efficacy: 117.2 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): 325
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

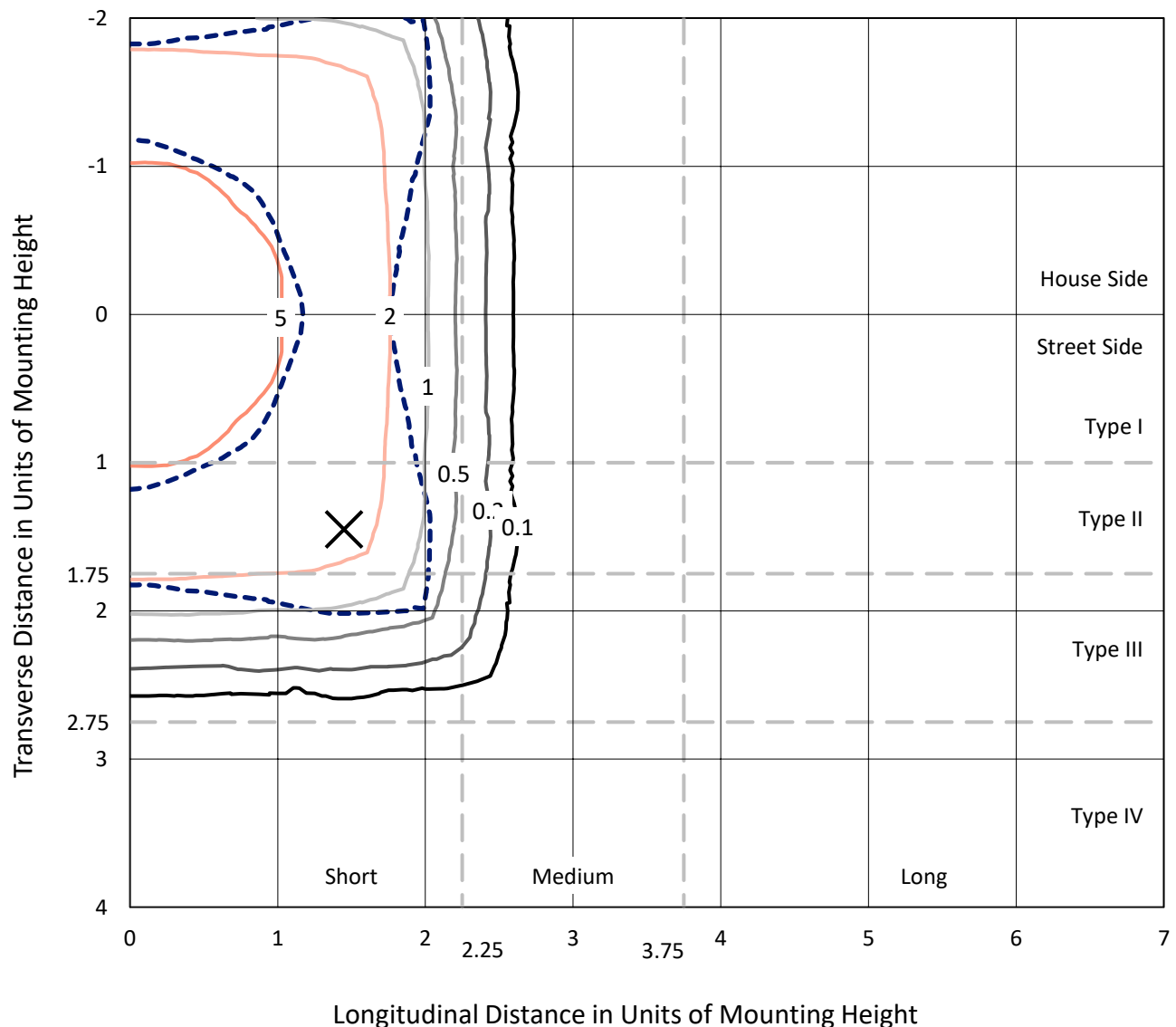


REPORT NUMBER: P457093

CATALOG NUMBER: GALN-SA8B-830-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

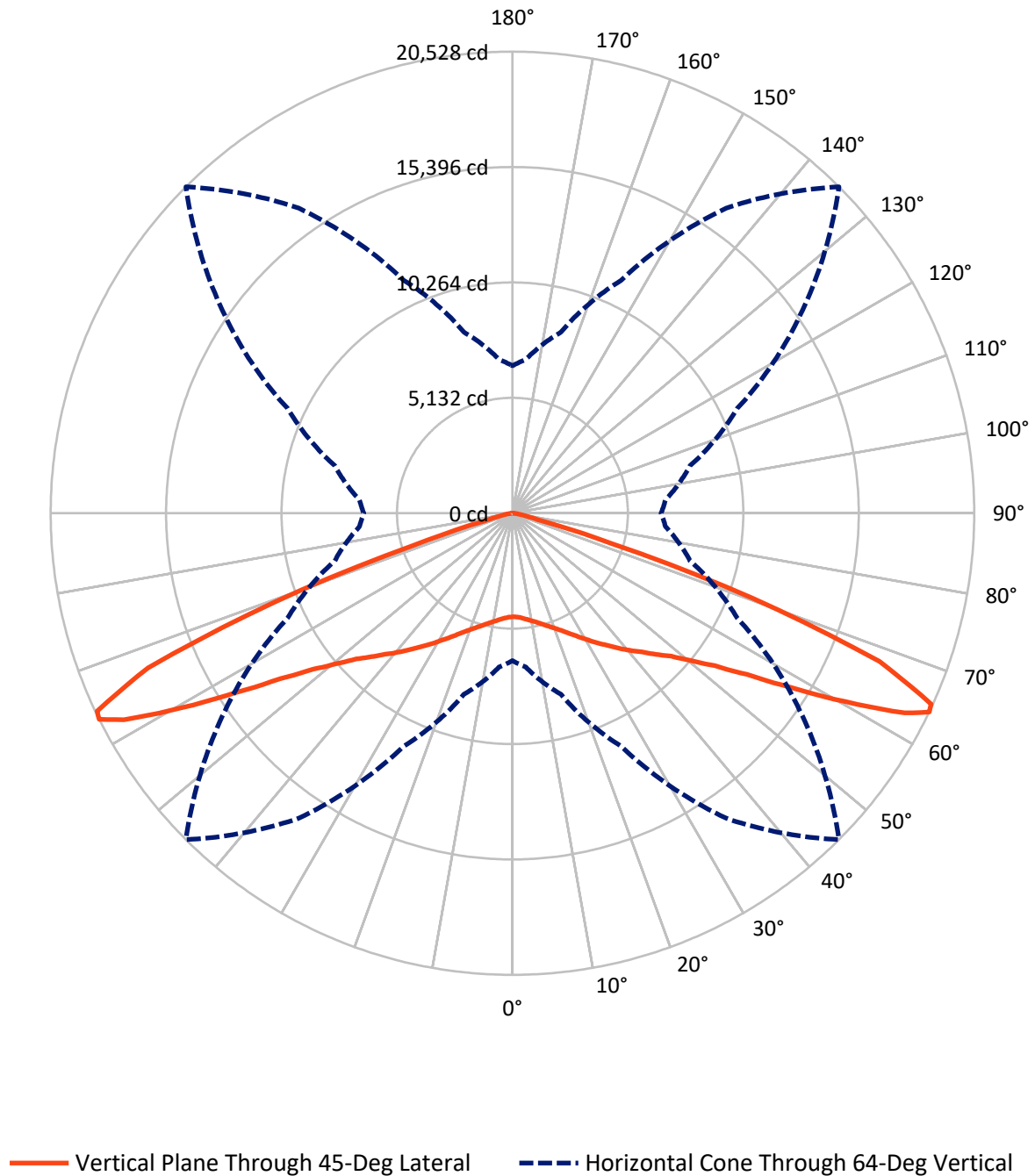


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type V - Short - N/A

REPORT NUMBER: P457093

CATALOG NUMBER: GALN-SA8B-830-U-5NQ

Luminous Intensity Polar Plot



REPORT NUMBER: P457093

CATALOG NUMBER: GALN-SA8B-830-U-5NQ

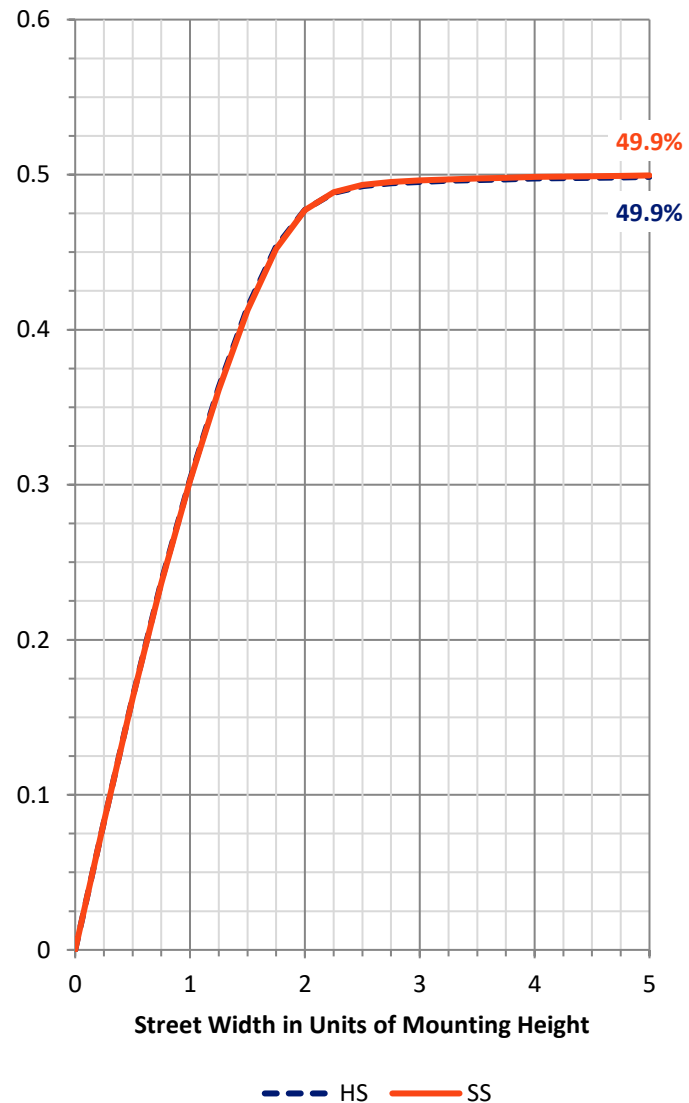
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19052.5	0.0	19052.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19052.5	0.0	19052.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	38105.0	0.0	38105.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.5	1.2
10°-20°	1459.5	3.8
20°-30°	2758.1	7.2
30°-40°	4567.7	12.0
40°-50°	7130.9	18.7
50°-60°	11024.1	28.9
60°-70°	9506.0	24.9
70°-80°	1077.3	2.8
80°-90°	129.1	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°	38105.0	100.0
0°-180°	38105.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457093

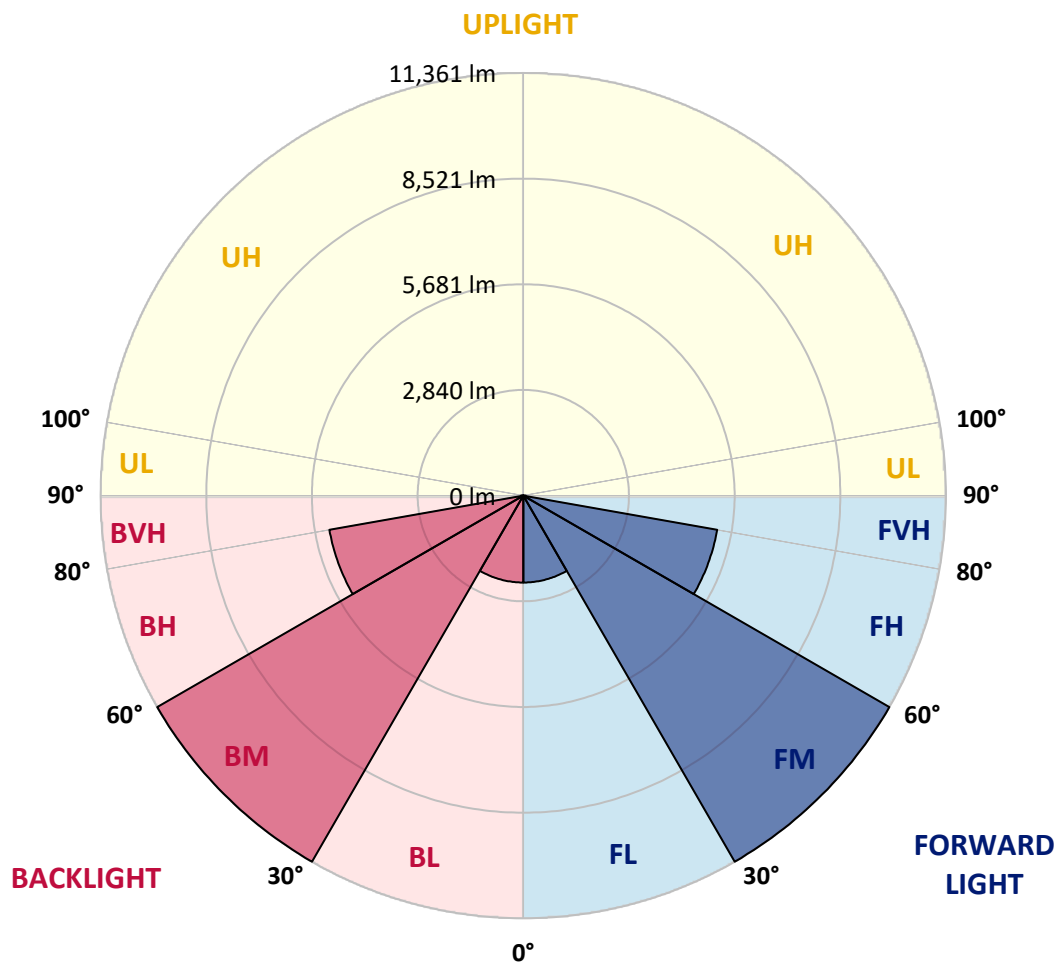
CATALOG NUMBER: GALN-SA8B-830-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2335.0	6.1			
FM	(30°-60°)	11361.3	29.8			
FH	(60°-80°)	5291.6	13.9			G3/7500
FVH	(80°-90°)	64.5	0.2			G1/100
BL	(0°-30°)	2335.0	6.1	B3/2500		
BM	(30°-60°)	11361.3	29.8	B5		
BH	(60°-80°)	5291.6	13.9	B5		G3/7500
BVH	(80°-90°)	64.5	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





REPORT NUMBER: P457093

CATALOG NUMBER: GALN-SA8B-830-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4605.6	4605.6	4605.6	4605.6	4605.6	4605.6	4605.6	4605.6	4605.6	4605.6	4605.6
2.5°	4623.8	4633.9	4625.8	4623.8	4621.8	4621.8	4621.8	4623.8	4631.9	4637.9	4633.9
5°	4682.3	4690.4	4686.4	4684.3	4682.3	4684.3	4680.3	4678.3	4684.3	4684.3	4682.3
7.5°	4755.0	4765.1	4761.0	4765.1	4767.1	4769.1	4759.0	4750.9	4748.9	4755.0	4750.9
10°	4853.9	4861.9	4864.0	4866.0	4870.0	4868.0	4855.9	4841.8	4839.7	4837.7	4835.7
12.5°	4964.9	4970.9	4973.0	4981.0	4987.1	4989.1	4975.0	4962.9	4942.7	4946.7	4938.6
15°	5090.0	5102.1	5100.1	5112.2	5128.4	5132.4	5118.3	5098.1	5079.9	5069.8	5063.8
17.5°	5243.4	5251.5	5247.4	5259.5	5279.7	5289.8	5277.7	5251.5	5233.3	5211.1	5199.0
20°	5425.0	5439.2	5443.2	5443.2	5461.4	5471.5	5453.3	5445.2	5417.0	5400.8	5390.7
22.5°	5630.9	5637.0	5649.1	5661.2	5679.3	5675.3	5669.2	5657.1	5630.9	5616.8	5600.6
25°	5863.0	5869.0	5899.3	5925.6	5931.6	5927.6	5919.5	5913.5	5889.2	5856.9	5844.8
27.5°	6133.4	6145.5	6185.9	6210.1	6210.1	6212.2	6196.0	6216.2	6163.7	6125.4	6121.3
30°	6472.5	6480.6	6514.9	6539.1	6527.0	6516.9	6512.9	6533.1	6476.5	6407.9	6391.8
32.5°	6807.5	6835.8	6866.1	6918.5	6876.2	6858.0	6854.0	6868.1	6803.5	6726.8	6704.6
35°	7166.8	7187.0	7243.5	7287.9	7249.5	7207.1	7225.3	7269.7	7193.0	7090.1	7086.1
37.5°	7564.4	7582.5	7655.2	7701.6	7673.4	7600.7	7631.0	7683.5	7606.8	7479.6	7453.4
40°	7978.1	8016.5	8107.3	8155.7	8109.3	8012.4	8068.9	8125.4	8056.8	7909.5	7851.0
42.5°	8442.3	8502.9	8634.0	8658.3	8569.5	8438.3	8537.2	8628.0	8579.6	8410.0	8387.8
45°	8985.2	9021.5	9183.0	9235.5	9112.4	8948.9	9072.0	9237.5	9201.2	9005.4	8963.0
47.5°	9592.7	9627.0	9794.5	9873.2	9717.8	9497.9	9719.9	9935.8	9913.6	9703.7	9683.5
50°	10311.2	10319.3	10551.4	10640.2	10484.8	10295.1	10492.8	10761.3	10672.5	10404.0	10400.0
52.5°	11098.3	11108.4	11401.1	11572.6	11485.8	11271.9	11506.0	11669.5	11443.4	11092.3	11066.0
55°	11780.5	11830.9	12230.6	12686.7	12805.8	12650.3	12721.0	12644.3	12087.3	11594.8	11518.1
57.5°	12059.0	12157.9	12765.4	13617.1	14392.1	14622.2	14077.2	13346.6	12343.6	11647.3	11572.6
60°	11378.9	11485.8	12428.3	14045.0	16022.8	17021.9	15490.0	13465.7	11760.3	10781.5	10664.4
62.5°	9112.4	9142.6	10529.2	13037.8	16973.4	19560.8	16085.4	12450.5	10063.0	8732.9	8686.5
64°	6557.3	6868.1	8337.4	11431.3	16557.7	20527.5	15742.3	11027.7	8173.9	6827.7	6609.7
65°	4904.3	4989.1	6720.7	9762.2	15825.0	20454.9	15076.3	9667.4	6769.2	5225.2	4983.0
67.5°	1852.7	1862.8	2480.4	4866.0	11265.8	17599.1	11506.0	5259.5	2851.8	2062.6	1988.0
70°	769.0	783.1	910.2	1636.8	4841.8	11300.1	5548.1	1897.1	1043.4	845.6	833.5
72.5°	563.1	571.2	609.5	726.6	1489.5	4639.9	1824.5	805.3	611.5	546.9	540.9
75°	442.0	446.0	474.3	534.8	694.3	1285.6	758.9	553.0	466.2	419.8	415.8
77.5°	337.0	347.1	367.3	407.7	466.2	609.5	502.5	413.7	359.2	320.9	314.8
80°	232.1	244.2	282.6	298.7	312.8	395.6	343.1	312.8	280.5	234.1	220.0
82.5°	143.3	151.4	189.7	203.8	197.8	222.0	220.0	224.0	199.8	145.3	135.2
85°	74.7	78.7	102.9	107.0	98.9	90.8	113.0	131.2	123.1	82.7	80.7
87.5°	16.1	18.2	22.2	20.2	22.2	22.2	28.3	42.4	44.4	28.3	26.2
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)