

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: P457329

Luminaire Tested: **GALN-SA8C-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457329
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-SA8C-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46544 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 429
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

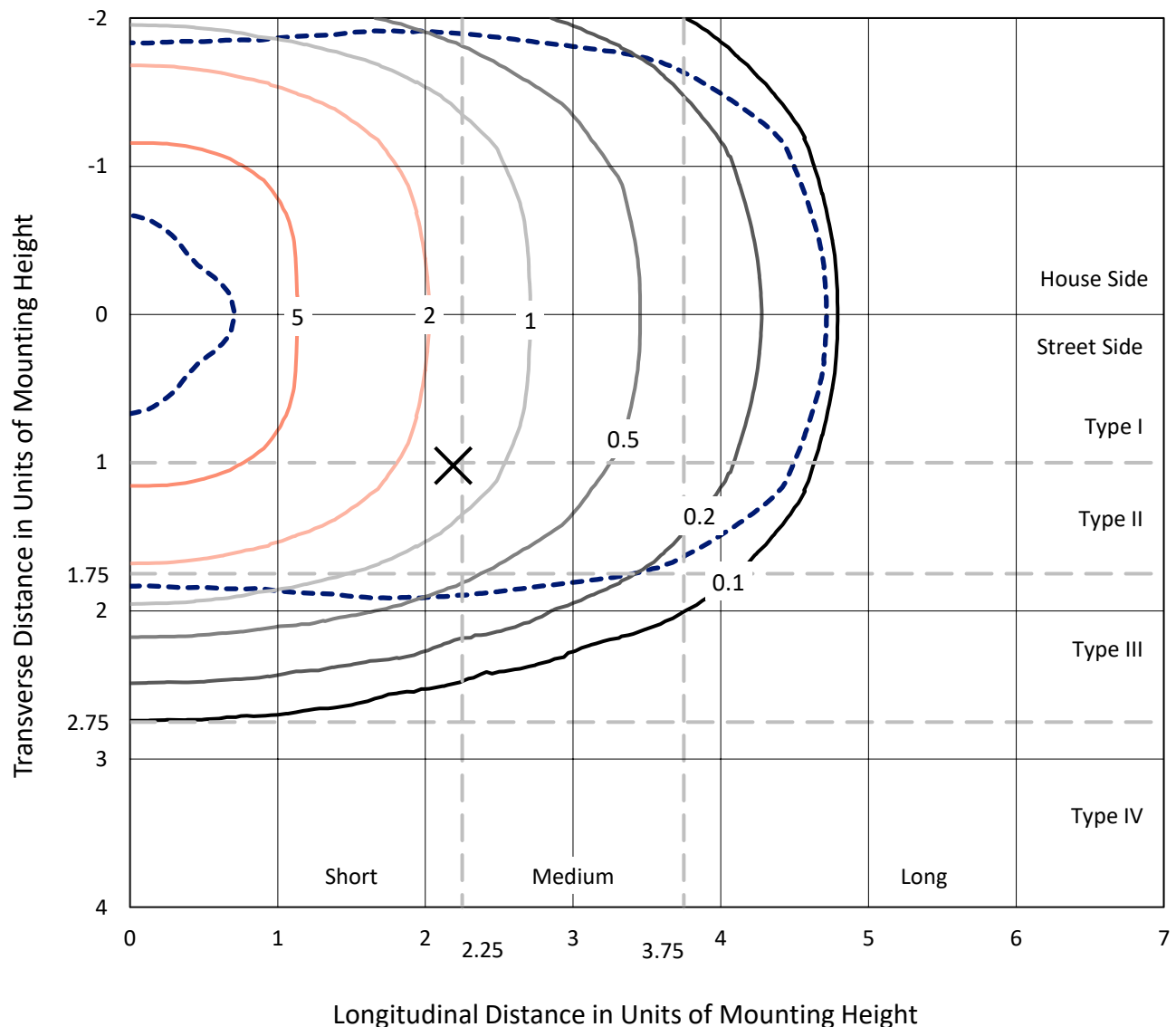


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

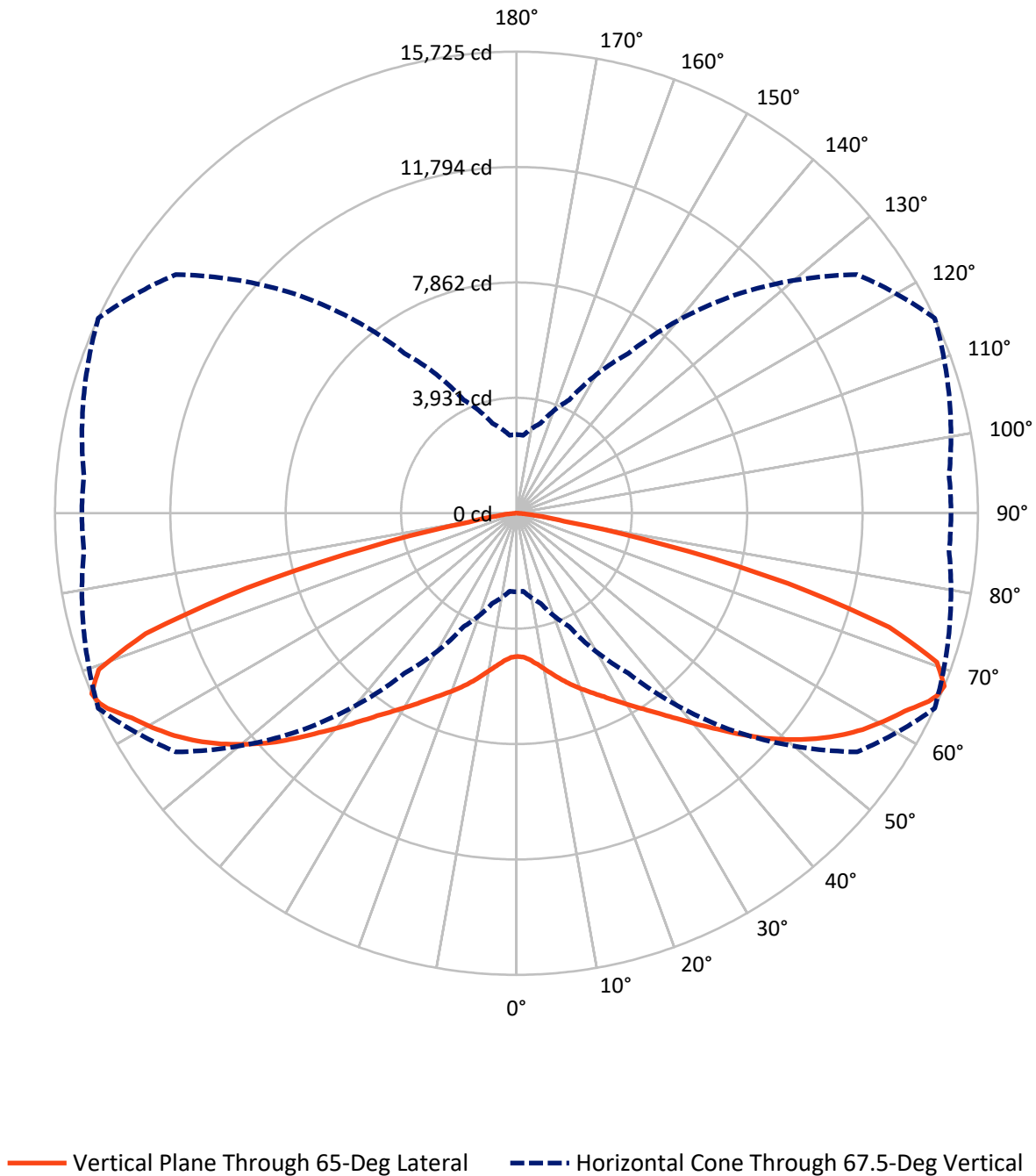


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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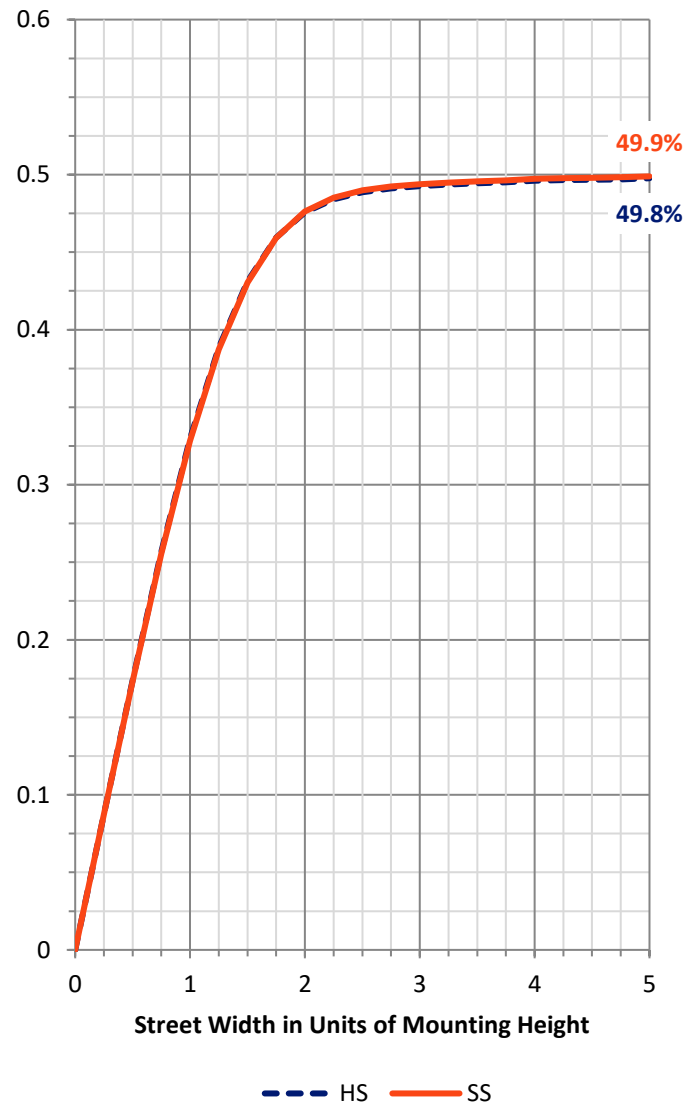
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23272.0	0.0	23272.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23272.0	0.0	23272.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	46544.0	0.0	46544.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.8	1.0
10°-20°	1609.2	3.5
20°-30°	3147.8	6.8
30°-40°	5354.0	11.5
40°-50°	8473.7	18.2
50°-60°	11236.0	24.1
60°-70°	10599.0	22.8
70°-80°	5239.6	11.3
80°-90°	403.8	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°	46544.0	100.0
0°-180°	46544.0	100.0

Coefficient of Utilization



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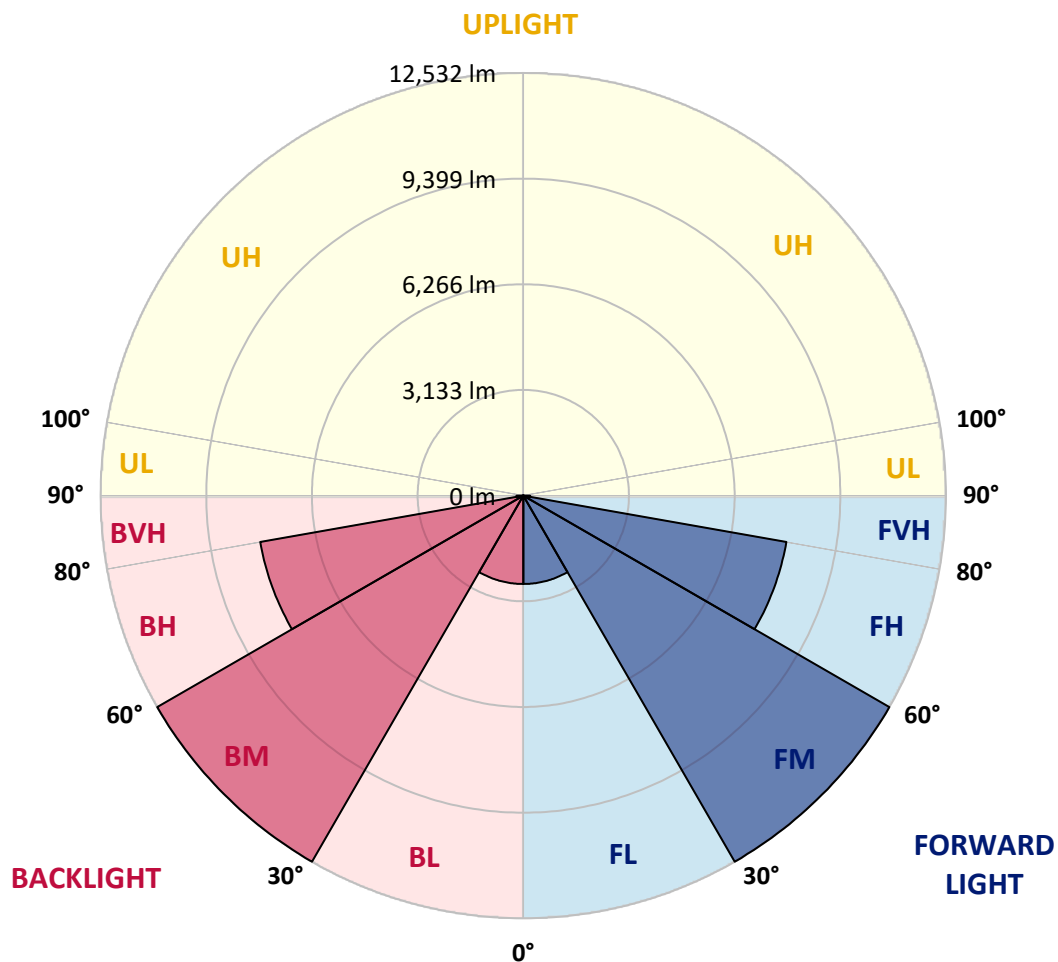
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2618.9	5.6			
FM	(30°-60°)	12531.9	26.9			
FH	(60°-80°)	7919.3	17.0			G4/12000
FVH	(80°-90°)	201.9	0.4			G2/225
BL	(0°-30°)	2618.9	5.6	B4/5000		
BM	(30°-60°)	12531.9	26.9	B5		
BH	(60°-80°)	7919.3	17.0	B5		G5
BVH	(80°-90°)	201.9	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4875.1	4875.1	4875.1	4875.1	4875.1	4875.1	4875.1	4875.1	4875.1	4875.1	4875.1
2.5°	4850.1	4855.1	4860.1	4867.6	4877.6	4892.5	4902.5	4910.0	4929.9	4932.4	4929.9
5°	4832.7	4837.7	4850.1	4872.6	4905.0	4949.9	4984.8	5027.2	5059.6	5082.0	5077.1
7.5°	4830.2	4840.2	4860.1	4907.5	4969.8	5047.1	5126.9	5199.2	5261.6	5311.5	5304.0
10°	4870.1	4882.6	4915.0	4984.8	5082.0	5194.3	5306.5	5413.7	5503.5	5568.3	5590.7
12.5°	4937.4	4947.4	5007.2	5112.0	5251.6	5391.3	5518.4	5650.6	5775.3	5885.0	5885.0
15°	5054.6	5072.1	5146.9	5299.0	5471.1	5633.1	5762.8	5902.5	6037.1	6161.8	6199.2
17.5°	5216.7	5241.6	5353.9	5548.4	5767.8	5917.4	6039.6	6154.3	6271.5	6391.2	6408.7
20°	5438.6	5463.6	5613.2	5847.6	6106.9	6286.5	6368.8	6396.2	6453.5	6568.3	6583.2
22.5°	5740.4	5765.3	5932.4	6196.7	6486.0	6680.5	6715.4	6650.5	6635.6	6725.4	6735.3
25°	6082.0	6104.4	6296.5	6580.7	6880.0	7091.9	7081.9	6922.4	6832.6	6887.4	6902.4
27.5°	6466.0	6498.4	6692.9	6987.2	7311.4	7498.4	7468.5	7236.6	7044.5	7034.6	7039.6
30°	6957.3	6992.2	7176.7	7458.5	7777.7	7949.7	7887.4	7575.7	7278.9	7179.2	7179.2
32.5°	7475.9	7563.2	7750.2	8044.5	8293.9	8418.5	8323.8	7949.7	7555.7	7416.1	7408.6
35°	8151.7	8199.1	8383.6	8670.4	8857.4	8954.7	8772.6	8371.2	7917.3	7752.7	7730.3
37.5°	8812.5	8852.4	9066.9	9341.2	9568.1	9563.1	9316.3	8872.4	8366.2	8181.6	8166.7
40°	9488.3	9530.7	9775.1	10026.9	10253.9	10233.9	9934.7	9438.4	8899.8	8692.8	8732.7
42.5°	10074.3	10121.7	10398.5	10757.6	10962.1	10957.1	10610.5	10051.9	9490.8	9306.3	9341.2
45°	10608.0	10650.4	10972.0	11383.5	11682.7	11720.1	11341.1	10750.1	10174.1	9937.2	9947.1
47.5°	10984.5	11064.3	11400.9	11872.2	12278.7	12410.9	12039.3	11460.8	10797.5	10550.6	10565.6
50°	11271.3	11321.1	11687.7	12223.8	12737.5	13011.8	12712.6	12119.1	11420.9	11159.1	11194.0
52.5°	11306.2	11366.0	11765.0	12383.4	13041.8	13458.2	13311.1	12762.5	12056.8	11787.5	11862.3
55°	11021.9	11056.8	11533.1	12283.7	13161.5	13789.8	13827.3	13360.9	12662.7	12458.2	12508.1
57.5°	10211.5	10301.2	10904.7	11817.4	12996.9	13966.9	14213.8	13904.6	13276.2	13074.2	13154.0
60°	8882.4	8972.1	9578.1	10735.1	12376.0	13884.6	14533.0	14385.8	13832.2	13670.2	13712.5
62.5°	6959.8	6952.3	7702.9	9121.7	11141.6	13480.6	14769.9	14849.6	14380.8	14176.4	14241.2
65°	4511.0	4533.4	5259.1	6787.7	9278.8	12453.3	14822.2	15440.6	14919.5	14610.3	14657.6
66°	3628.3	3695.6	4311.5	5720.4	8328.8	11780.0	14665.1	15615.2	15084.1	14710.0	14732.4
67.5°	2678.2	2665.7	3171.9	4259.1	6650.5	10500.7	14173.9	15724.9	15271.1	14799.8	14809.7
70°	1528.6	1526.1	1705.7	2339.0	3910.0	7393.7	11947.0	15198.8	15650.1	15123.9	15096.5
72.5°	1117.2	1109.7	1134.6	1291.7	1907.6	3733.0	8241.5	13283.6	15455.6	15071.6	14994.3
75°	937.6	932.6	927.6	947.6	1069.8	1690.7	4373.9	9555.6	13410.8	14146.4	14066.6
77.5°	765.5	765.5	768.0	763.1	768.0	890.2	1812.9	5121.9	8166.7	9116.8	9338.7
80°	598.5	596.0	638.4	620.9	581.0	571.0	803.0	1648.3	2710.6	2695.6	2224.3
82.5°	441.4	411.5	486.3	473.8	428.9	364.1	468.8	703.2	905.2	588.5	436.4
85°	279.3	276.8	344.1	314.2	261.8	172.1	224.4	301.7	374.0	226.9	184.5
87.5°	49.9	47.4	109.7	79.8	79.8	49.9	62.3	82.3	122.2	84.8	62.3
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)