

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: P456629

Luminaire Tested: **GALN-SA7D-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456629
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-SA7D-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 44685 lumens
Efficiency: N/A
Efficacy: 103.2 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): 433
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



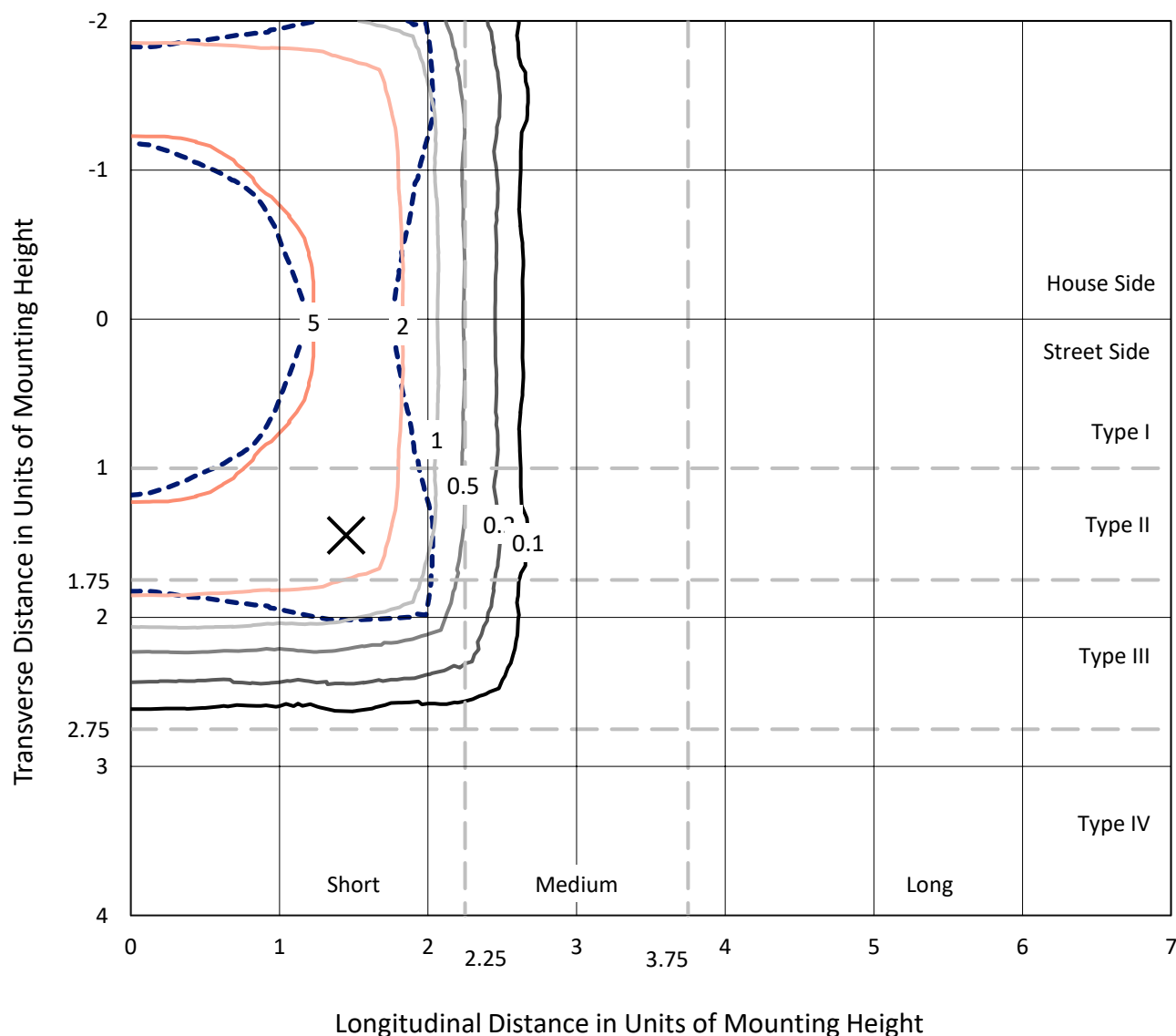
REPORT NUMBER: P456629

CATALOG NUMBER: GALN-SA7D-830-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



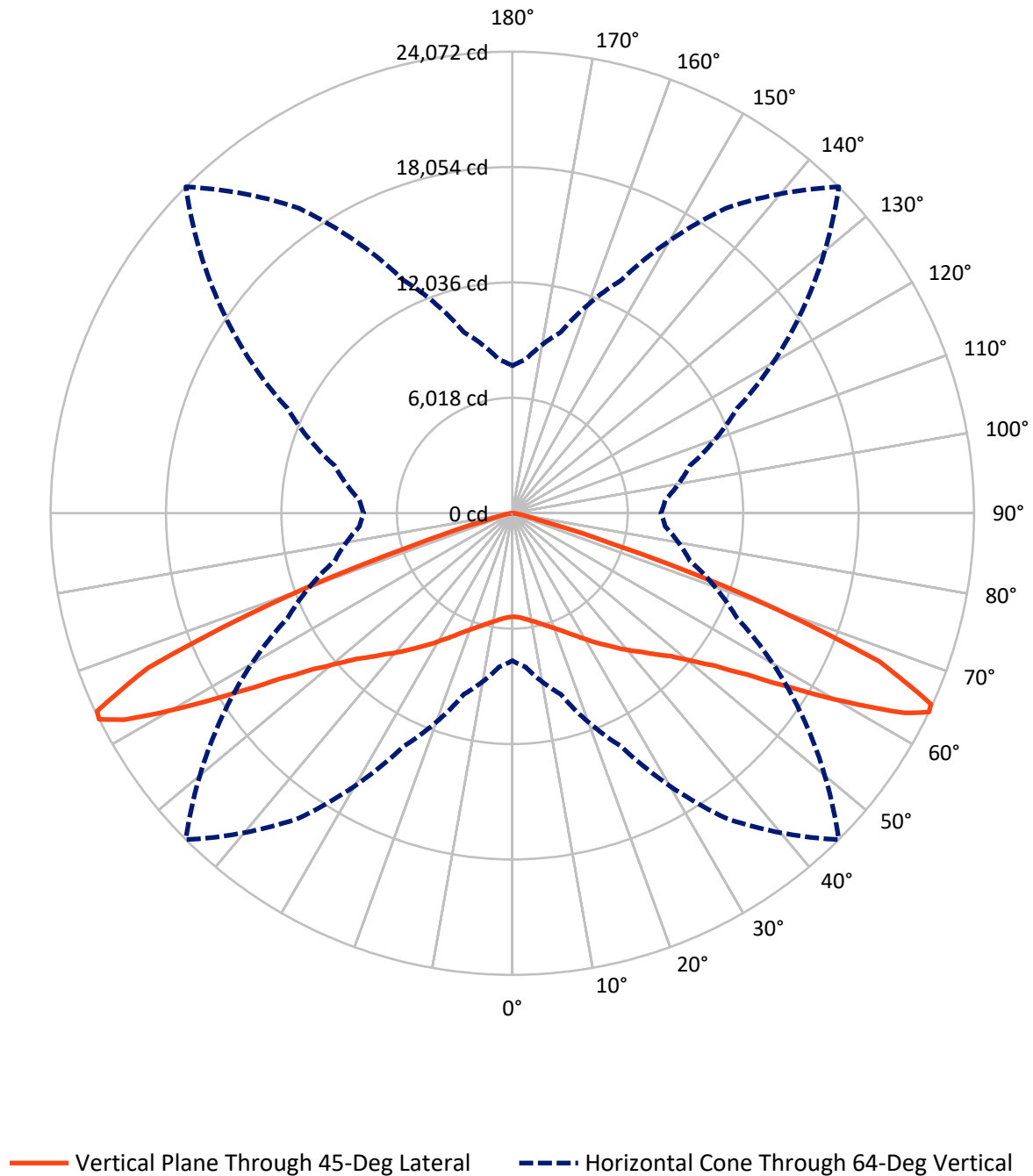
Based on 25 foot mounting height. Maximum calculated value = 8.7 fc

Type V - Short - N/A

REPORT NUMBER: P456629

CATALOG NUMBER: GALN-SA7D-830-U-5NQ

Luminous Intensity Polar Plot



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CATALOG NUMBER: GALN-SA7D-830-U-5NQ

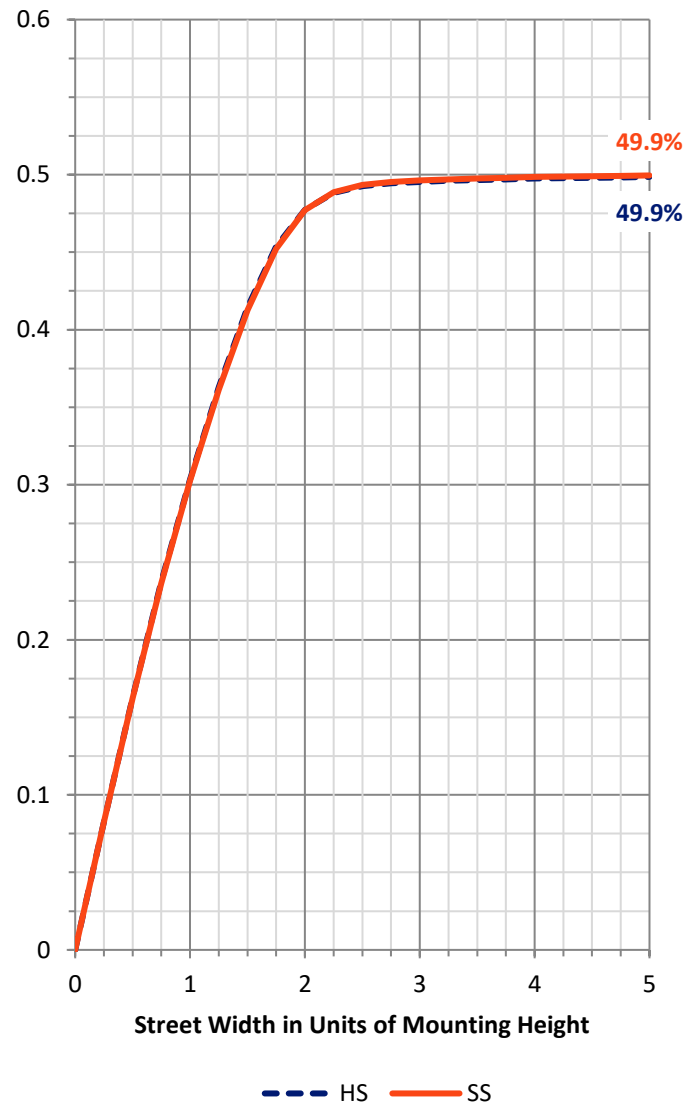
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22342.5	0.0	22342.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22342.5	0.0	22342.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	44685.0	0.0	44685.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.6	1.2
10°-20°	1711.5	3.8
20°-30°	3234.3	7.2
30°-40°	5356.4	12.0
40°-50°	8362.2	18.7
50°-60°	12927.8	28.9
60°-70°	11147.5	24.9
70°-80°	1263.3	2.8
80°-90°	151.3	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°	44685.0	100.0
0°-180°	44685.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456629

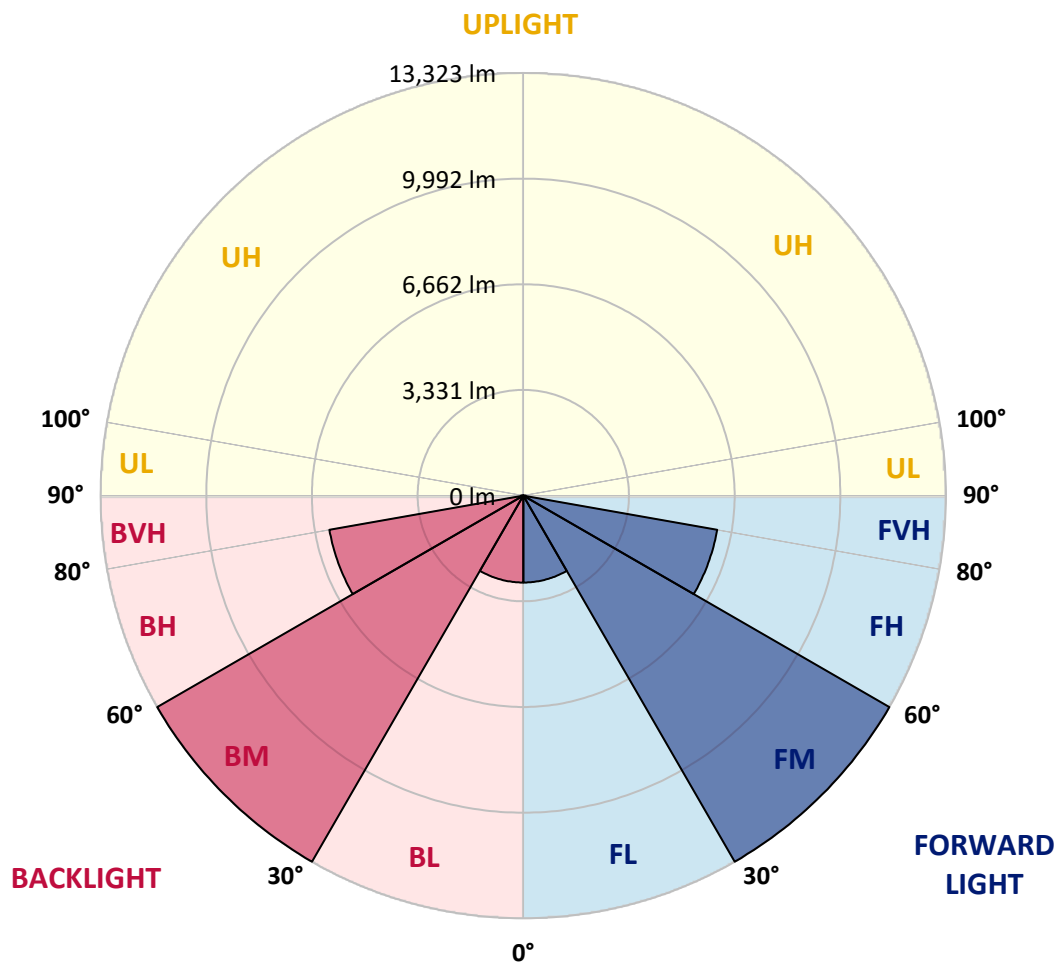
CATALOG NUMBER: GALN-SA7D-830-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2738.2	6.1			
FM	(30°-60°)	13323.2	29.8			
FH	(60°-80°)	6205.4	13.9			G3/7500
FVH	(80°-90°)	75.7	0.2			G1/100
BL	(0°-30°)	2738.2	6.1	B4/5000		
BM	(30°-60°)	13323.2	29.8	B5		
BH	(60°-80°)	6205.4	13.9	B5		G3/7500
BVH	(80°-90°)	75.7	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°	5400.9	5400.9	5400.9	5400.9	5400.9	5400.9	5400.9	5400.9	5400.9	5400.9	5400.9
2.5°	5422.2	5434.1	5424.6	5422.2	5419.9	5419.9	5419.9	5422.2	5431.7	5438.8	5434.1
5°	5490.9	5500.3	5495.6	5493.2	5490.9	5493.2	5488.5	5486.1	5493.2	5493.2	5490.9
7.5°	5576.1	5587.9	5583.2	5587.9	5590.3	5592.6	5580.8	5571.3	5569.0	5576.1	5571.3
10°	5692.0	5701.5	5703.9	5706.2	5711.0	5708.6	5694.4	5677.8	5675.5	5673.1	5670.7
12.5°	5822.2	5829.3	5831.7	5841.1	5848.3	5850.6	5834.0	5819.8	5796.2	5800.9	5791.4
15°	5969.0	5983.2	5980.8	5995.0	6013.9	6018.7	6002.1	5978.4	5957.1	5945.3	5938.2
17.5°	6148.8	6158.3	6153.6	6167.8	6191.4	6203.3	6189.1	6158.3	6137.0	6111.0	6096.8
20°	6361.8	6378.4	6383.1	6383.1	6404.4	6416.3	6395.0	6385.5	6352.4	6333.4	6321.6
22.5°	6603.2	6610.3	6624.5	6638.7	6660.0	6655.3	6648.2	6634.0	6603.2	6586.7	6567.7
25°	6875.4	6882.5	6918.0	6948.8	6955.9	6951.2	6941.7	6934.6	6906.2	6868.3	6854.1
27.5°	7192.6	7206.8	7254.1	7282.5	7282.5	7284.9	7265.9	7289.6	7228.1	7183.1	7178.4
30°	7590.2	7599.6	7639.9	7668.3	7654.1	7642.3	7637.5	7661.2	7594.9	7514.4	7495.5
32.5°	7983.1	8016.2	8051.7	8113.2	8063.5	8042.2	8037.5	8054.1	7978.3	7888.4	7862.4
35°	8404.3	8428.0	8494.3	8546.4	8501.4	8451.7	8473.0	8525.0	8435.1	8314.4	8309.7
37.5°	8870.6	8891.9	8977.1	9031.5	8998.4	8913.2	8948.7	9010.2	8920.3	8771.2	8740.4
40°	9355.8	9400.7	9507.3	9564.1	9509.6	9396.0	9462.3	9528.6	9448.1	9275.3	9206.7
42.5°	9900.1	9971.1	10125.0	10153.4	10049.2	9895.4	10011.4	10117.9	10061.1	9862.3	9836.2
45°	10536.8	10579.4	10768.7	10830.3	10685.9	10494.2	10638.6	10832.6	10790.0	10560.5	10510.8
47.5°	11249.2	11289.4	11485.9	11578.2	11395.9	11137.9	11398.3	11651.5	11625.5	11379.4	11355.7
50°	12091.7	12101.2	12373.4	12477.5	12295.3	12072.8	12304.8	12619.5	12515.4	12200.6	12195.9
52.5°	13014.8	13026.6	13369.8	13571.0	13469.2	13218.3	13492.9	13684.6	13419.5	13007.7	12976.9
55°	13814.7	13873.9	14342.5	14877.4	15017.1	14834.8	14917.7	14827.7	14174.5	13597.0	13507.1
57.5°	14141.4	14257.3	14969.7	15968.5	16877.3	17147.1	16508.1	15651.3	14475.1	13658.5	13571.0
60°	13343.8	13469.2	14574.5	16470.2	18789.7	19961.2	18164.8	15791.0	13791.1	12643.2	12505.9
62.5°	10685.9	10721.4	12347.4	15289.2	19904.4	22938.6	18863.0	14600.5	11800.6	10240.9	10186.5
64°	7689.6	8054.1	9777.1	13405.3	19416.9	24072.3	18460.7	12931.9	9585.4	8006.7	7751.1
65°	5751.2	5850.6	7881.3	11448.0	18557.7	23987.1	17679.7	11336.8	7938.1	6127.5	5843.5
67.5°	2172.7	2184.5	2908.7	5706.2	13211.2	20638.1	13492.9	6167.8	3344.2	2418.8	2331.3
70°	901.7	918.3	1067.4	1919.4	5677.8	13251.5	6506.2	2224.7	1223.6	991.7	977.5
72.5°	660.3	669.8	714.8	852.0	1746.7	5441.2	2139.5	944.3	717.1	641.4	634.3
75°	518.3	523.1	556.2	627.2	814.2	1507.6	889.9	648.5	546.7	492.3	487.6
77.5°	395.2	407.1	430.7	478.1	546.7	714.8	589.3	485.2	421.3	376.3	369.2
80°	272.2	286.4	331.3	350.3	366.8	463.9	402.3	366.8	329.0	274.5	258.0
82.5°	168.0	177.5	222.5	239.0	231.9	260.3	258.0	262.7	234.3	170.4	158.6
85°	87.6	92.3	120.7	125.4	116.0	106.5	132.5	153.8	144.4	97.0	94.7
87.5°	18.9	21.3	26.0	23.7	26.0	26.0	33.1	49.7	52.1	33.1	30.8
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)