

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: STREETWORKS

Report Number: P842098

Luminaire Tested: **ARCH4-270-730-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-270-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1045mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37762 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B5 - U0 - G4

Input Watts (W): 269
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

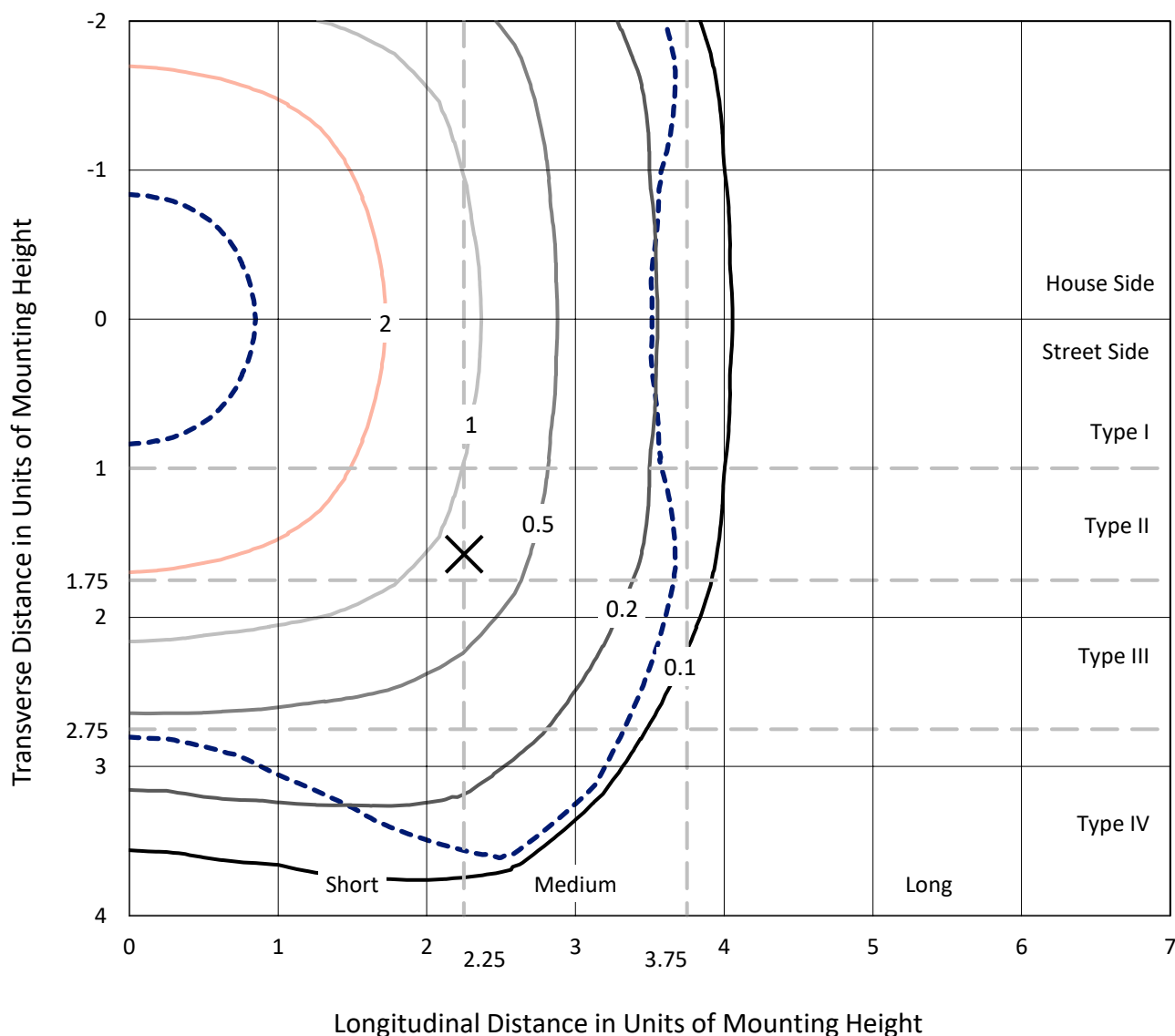


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Iso-Footcandle Lines of Horizontal Illumination

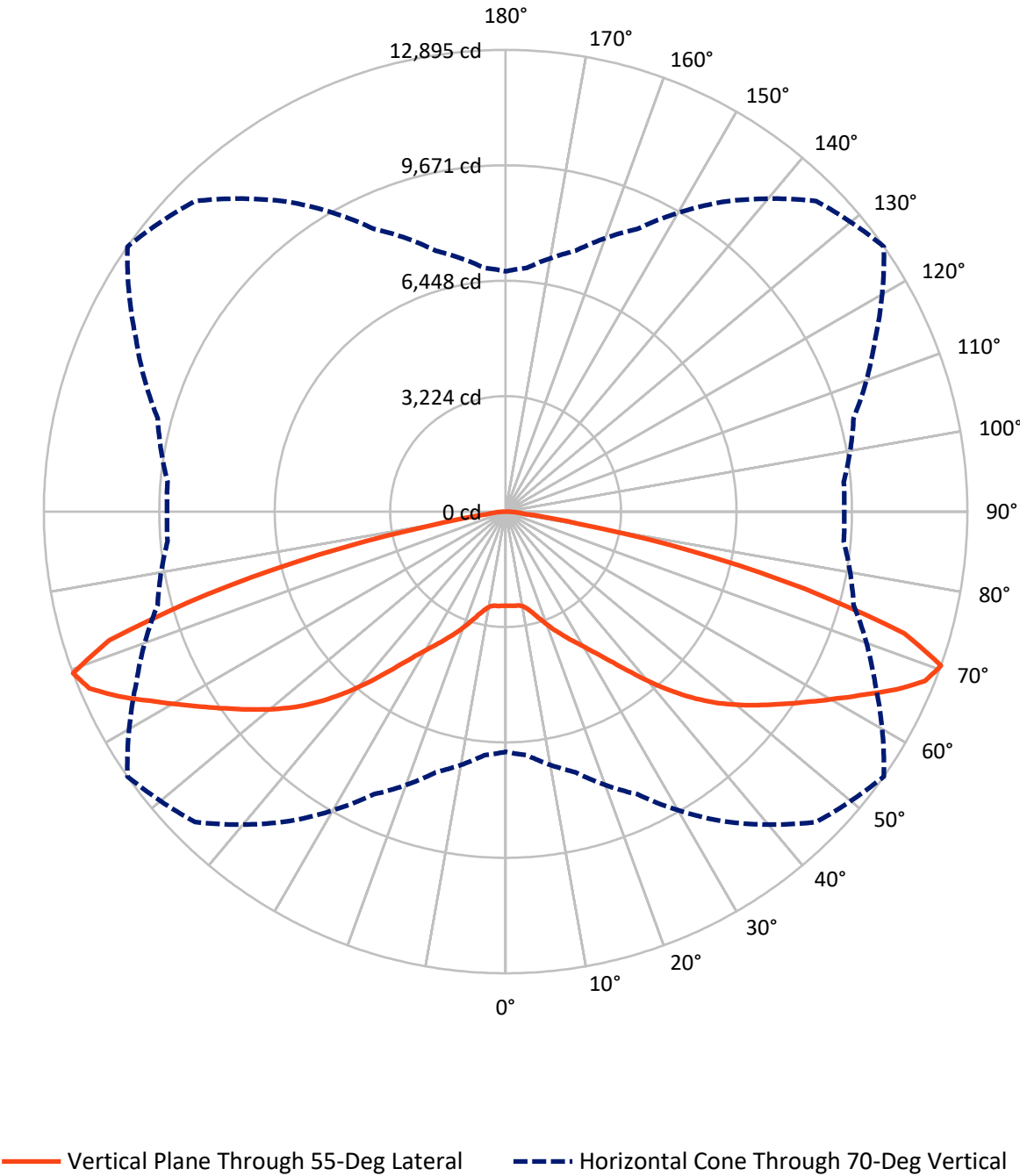
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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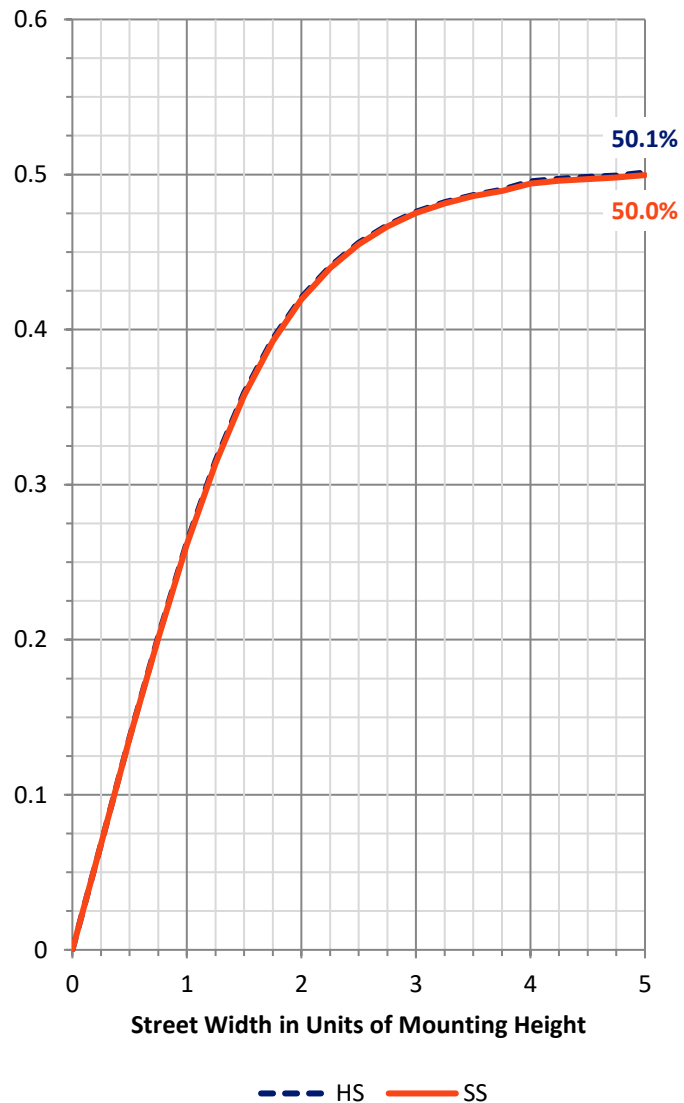
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18881.0	0.0	18881.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18881.0	0.0	18881.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37762.0	0.0	37762.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.1	0.7
10°-20°	864.9	2.3
20°-30°	1797.2	4.8
30°-40°	3319.2	8.8
40°-50°	5831.2	15.4
50°-60°	8409.9	22.3
60°-70°	10292.8	27.3
70°-80°	6549.5	17.3
80°-90°	443.2	1.2
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°	37762.0	100.0
0°-180°	37762.0	100.0

Coefficient of Utilization



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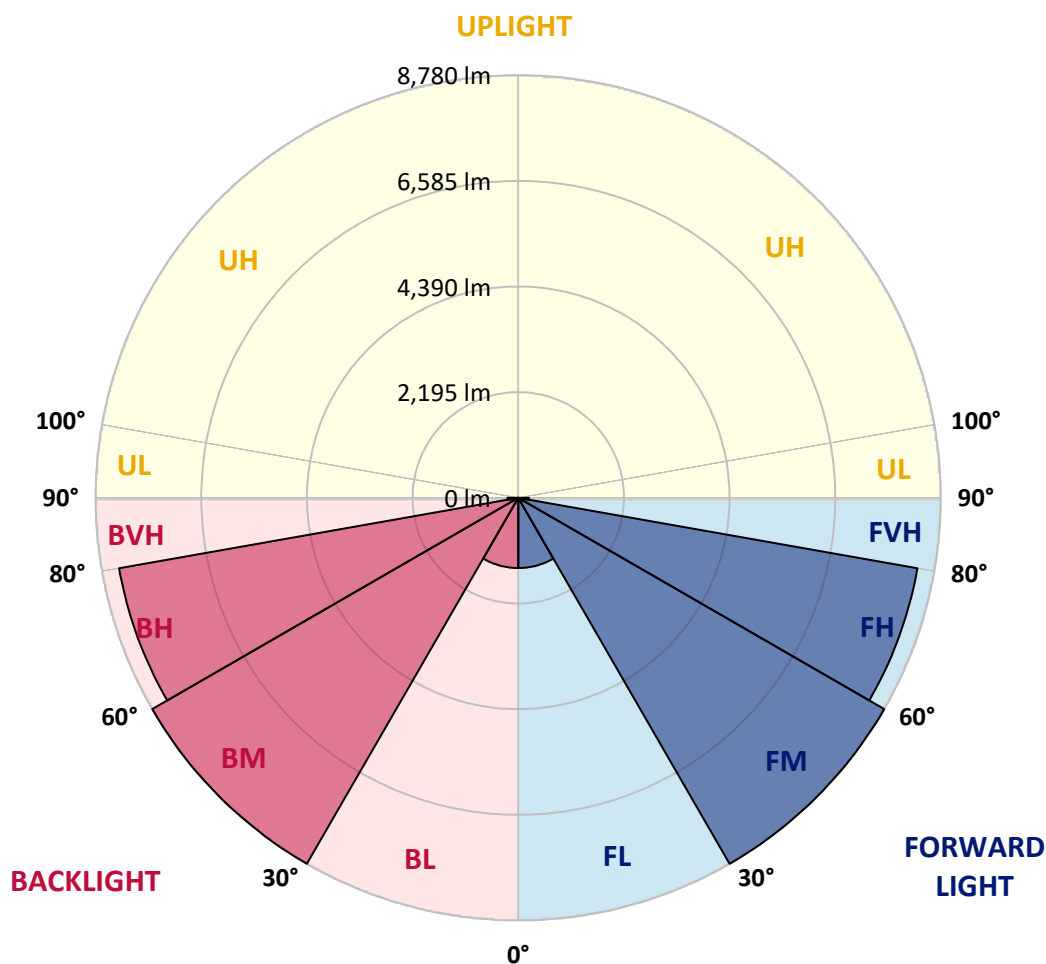
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1458.1	3.9			
FM	(30°-60°)	8780.1	23.3			
FH	(60°-80°)	8421.2	22.3			G4/12000
FVH	(80°-90°)	221.6	0.6			G2/225
BL	(0°-30°)	1458.1	3.9	B3/2500		
BM	(30°-60°)	8780.1	23.3	B5		
BH	(60°-80°)	8421.2	22.3	B5		G4/12000
BVH	(80°-90°)	221.6	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2632.4	2632.4	2632.4	2632.4	2632.4	2632.4	2632.4	2632.4	2632.4	2632.4	2632.4
2.5°	2667.5	2667.5	2660.4	2660.4	2646.4	2639.4	2632.4	2632.4	2625.3	2625.3	2618.3
5°	2681.5	2681.5	2681.5	2674.5	2667.5	2660.4	2646.4	2632.4	2625.3	2618.3	2611.3
7.5°	2688.5	2688.5	2681.5	2681.5	2674.5	2667.5	2646.4	2625.3	2618.3	2611.3	2611.3
10°	2744.7	2737.7	2730.6	2716.6	2716.6	2716.6	2688.5	2667.5	2660.4	2660.4	2660.4
12.5°	2878.1	2871.0	2857.0	2835.9	2835.9	2843.0	2800.8	2772.8	2772.8	2765.7	2765.7
15°	3074.6	3067.6	3053.5	3018.4	3011.4	3025.5	2962.3	2934.2	2934.2	2934.2	2927.2
17.5°	3292.2	3278.2	3257.1	3229.0	3229.0	3229.0	3165.9	3130.8	3109.7	3109.7	3102.7
20°	3474.7	3467.7	3467.7	3460.7	3481.7	3481.7	3397.5	3341.4	3292.2	3264.1	3257.1
22.5°	3636.2	3629.2	3643.2	3671.3	3713.4	3727.4	3629.2	3544.9	3467.7	3411.5	3397.5
25°	3853.8	3846.8	3839.7	3881.9	3952.1	3973.1	3867.8	3762.5	3685.3	3657.2	3643.2
27.5°	4085.4	4092.5	4099.5	4141.6	4197.7	4232.8	4127.6	4029.3	3966.1	3924.0	3909.9
30°	4345.2	4359.2	4380.3	4443.4	4485.6	4499.6	4408.3	4338.1	4282.0	4246.9	4225.8
32.5°	4675.1	4703.2	4731.2	4787.4	4808.5	4794.4	4752.3	4703.2	4661.0	4611.9	4604.9
35°	5166.5	5194.5	5187.5	5208.6	5215.6	5201.6	5180.5	5152.4	5131.4	5068.2	5061.2
37.5°	5784.2	5812.3	5770.1	5749.1	5700.0	5707.0	5700.0	5721.0	5728.0	5664.9	5657.8
40°	6408.9	6437.0	6380.9	6324.7	6275.6	6254.5	6289.6	6359.8	6359.8	6317.7	6317.7
42.5°	7075.8	7096.9	7005.6	6935.4	6872.2	6858.2	6879.3	6963.5	6984.5	6977.5	6977.5
45°	7742.7	7728.6	7609.3	7539.1	7482.9	7447.8	7454.9	7518.0	7560.2	7581.2	7581.2
47.5°	8255.1	8234.0	8135.8	8079.6	8044.5	7995.4	7995.4	8030.5	8051.5	8058.6	8058.6
50°	8662.2	8641.2	8542.9	8535.9	8535.9	8514.8	8493.8	8486.8	8472.7	8479.7	8479.7
52.5°	9013.2	8985.1	8915.0	8929.0	8992.2	9006.2	8978.1	8922.0	8865.8	8844.8	8851.8
55°	9392.3	9350.2	9294.0	9336.1	9462.5	9518.6	9476.5	9364.2	9265.9	9202.8	9202.8
57.5°	9694.1	9645.0	9645.0	9764.3	9996.0	10108.3	10017.0	9806.4	9638.0	9567.8	9574.8
60°	9483.5	9441.4	9609.9	10136.4	10571.6	10761.1	10606.7	10234.6	9960.9	9876.6	9890.7
62.5°	9069.4	9041.3	9251.9	10066.2	11091.0	11484.1	11252.5	10719.0	10311.9	10213.6	10213.6
65°	8458.7	8451.7	8746.5	9750.3	11210.4	12179.1	11982.5	11245.5	10719.0	10585.6	10613.7
67.5°	7826.9	7826.9	8093.7	9209.8	11070.0	12473.9	12628.3	11722.8	10915.6	10585.6	10592.6
70°	6710.8	6830.1	7539.1	8711.4	10557.5	12263.3	12895.1	11385.9	10059.2	9476.5	9455.5
72.5°	4422.4	4576.8	5987.8	7840.9	10052.1	11498.2	11638.6	10003.0	8353.4	7672.5	7637.4
75°	2667.5	2800.8	3881.9	6121.1	8837.7	9258.9	8641.2	7840.9	6240.5	5707.0	5707.0
77.5°	786.2	877.5	1790.0	3881.9	6114.1	6086.0	5327.9	4618.9	3692.3	3137.8	3179.9
80°	463.3	477.3	582.6	1769.0	2534.1	2667.5	2056.8	1284.6	1284.6	954.7	926.6
82.5°	358.0	358.0	372.0	442.2	610.7	680.9	519.5	442.2	505.4	428.2	407.1
85°	252.7	252.7	252.7	259.7	266.7	273.8	287.8	294.8	322.9	266.7	252.7
87.5°	77.2	84.2	91.3	105.3	126.4	133.4	140.4	126.4	126.4	119.3	112.3
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)