

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: P842188

Luminaire Tested: **ARCH4-280-740-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842188
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: ARCH4-280-740-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1085mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41198 lumens
Efficiency: N/A
Efficacy: 147.3 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): 279.7
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

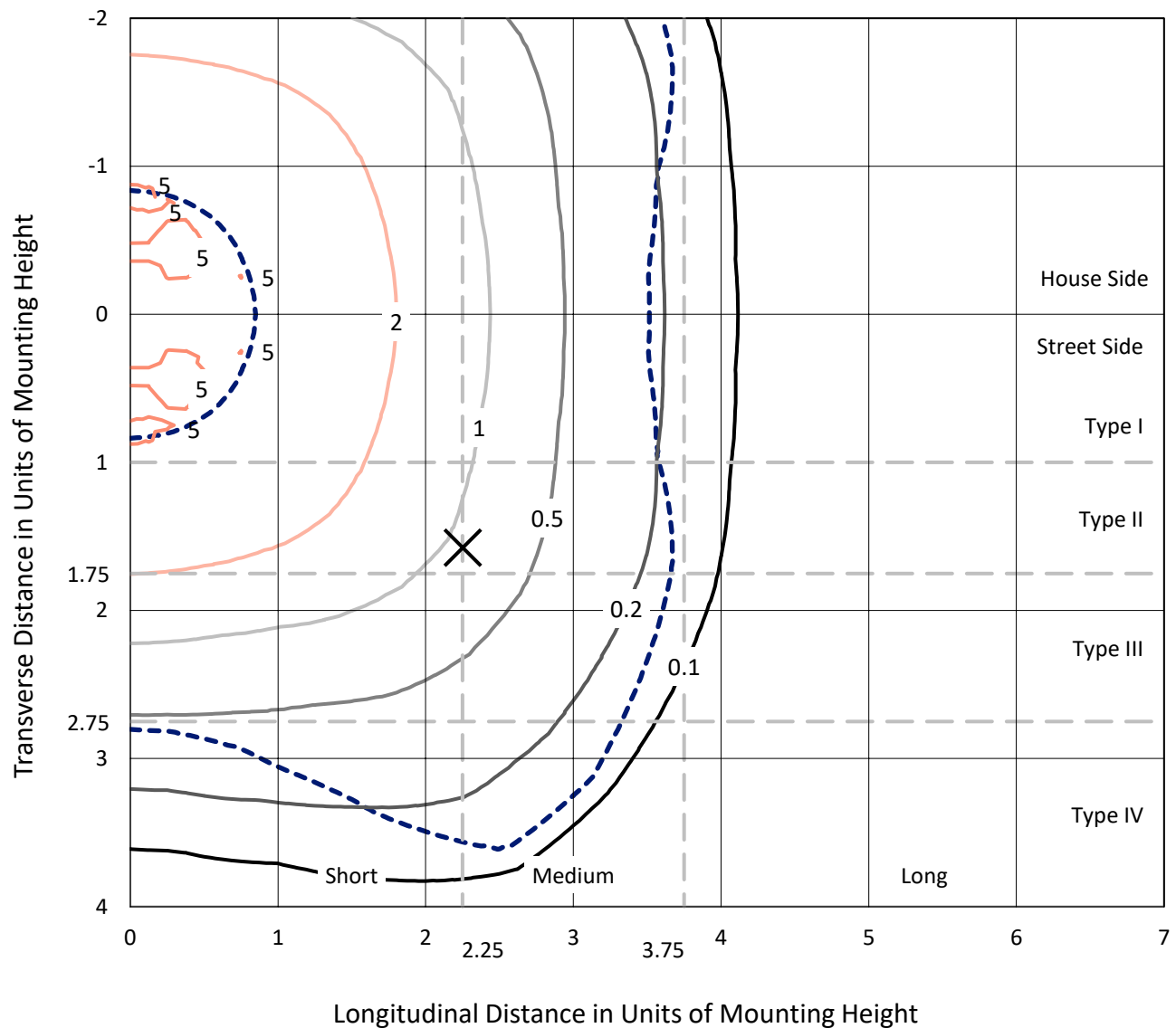


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Iso-Footcandle Lines of Horizontal Illumination

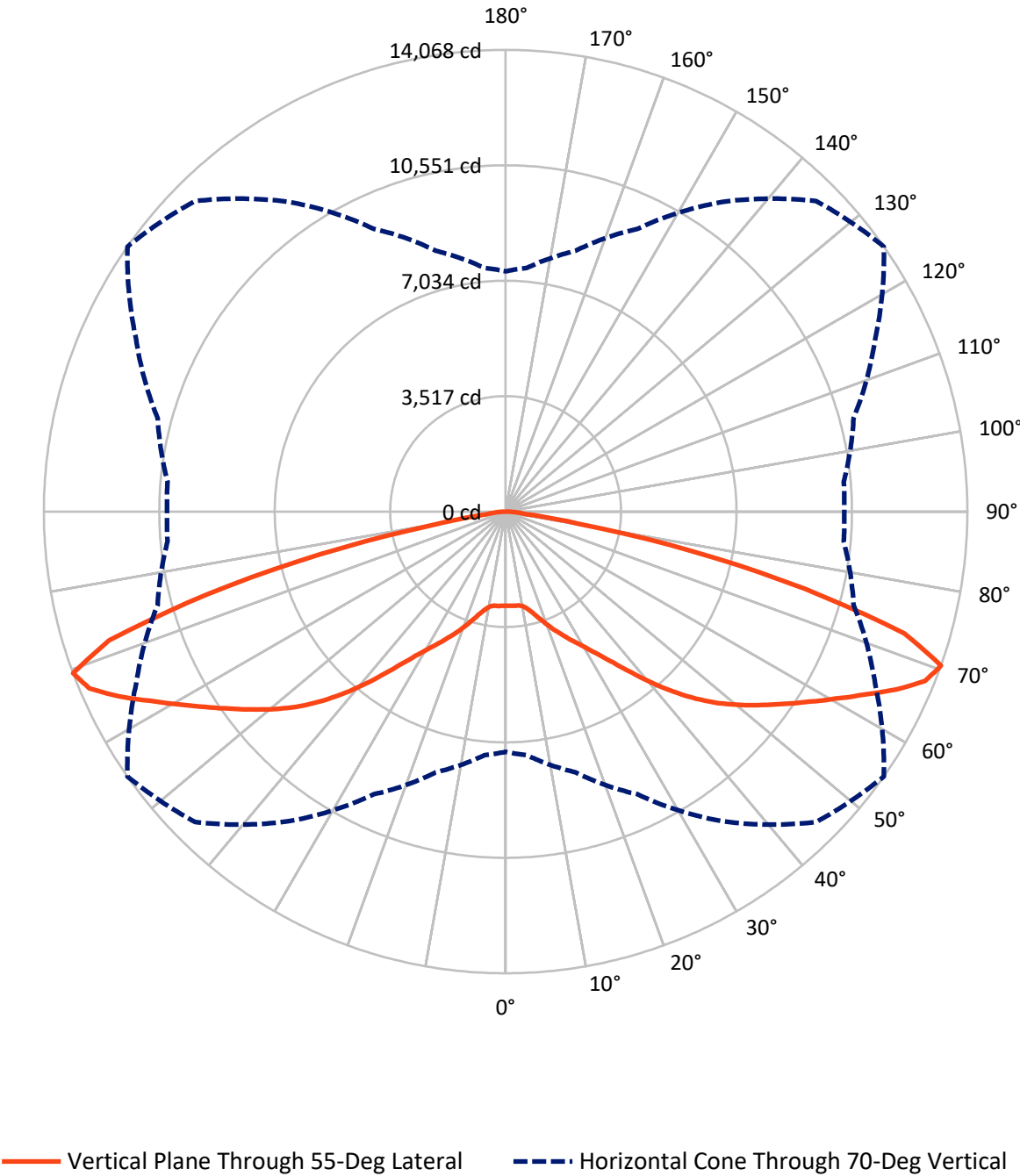
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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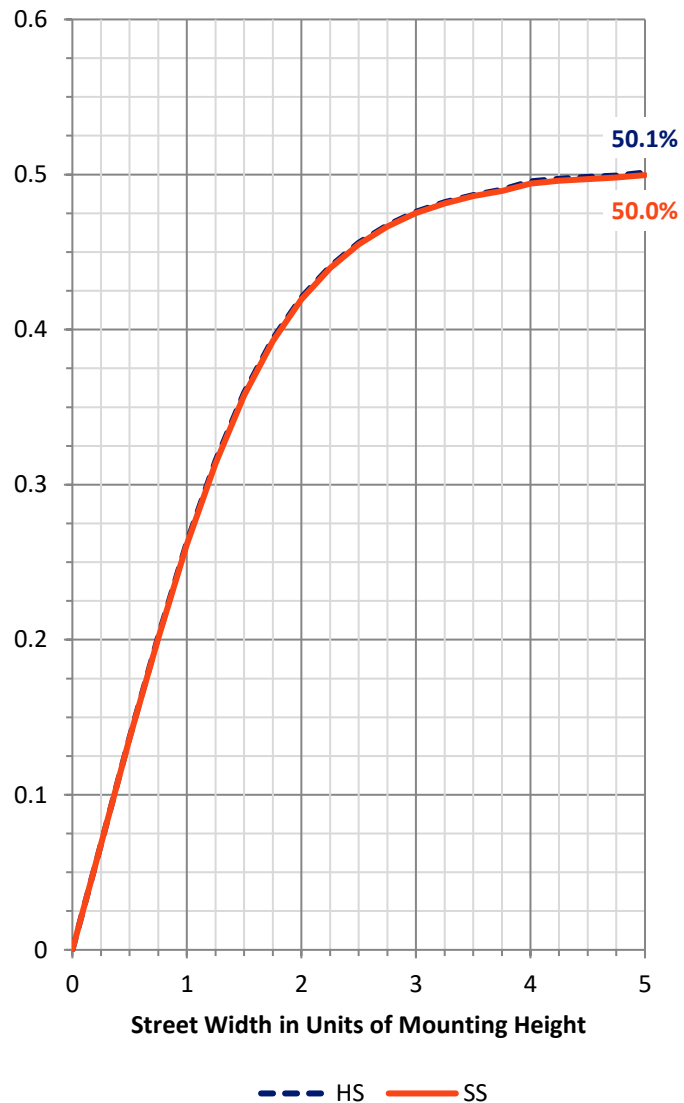
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20599.0	0.0	20599.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20599.0	0.0	20599.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	41198.0	0.0	41198.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.3	0.7
10°-20°	943.6	2.3
20°-30°	1960.7	4.8
30°-40°	3621.2	8.8
40°-50°	6361.7	15.4
50°-60°	9175.1	22.3
60°-70°	11229.4	27.3
70°-80°	7145.5	17.3
80°-90°	483.5	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°	41198.0	100.0
0°-180°	41198.0	100.0

Coefficient of Utilization



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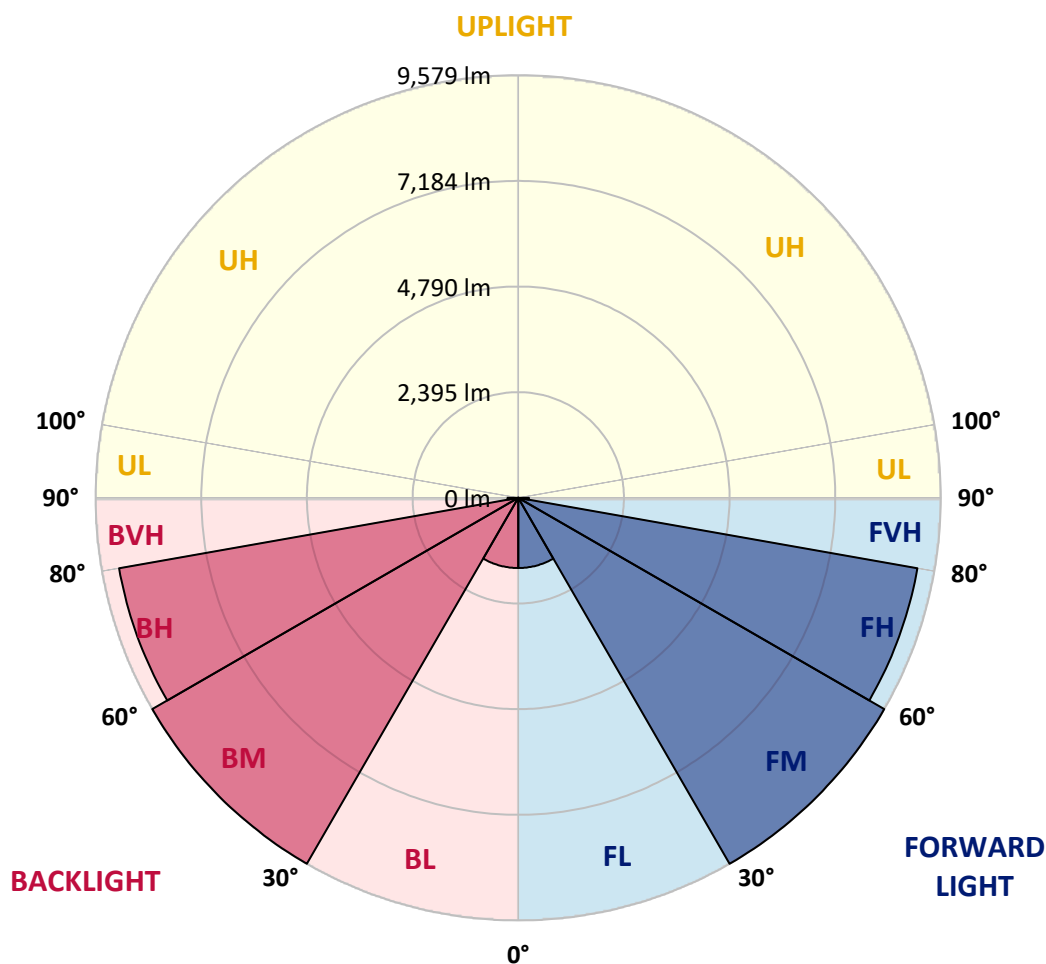
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1590.8	3.9			
FM	(30°-60°)	9579.1	23.3			
FH	(60°-80°)	9187.4	22.3			G4/12000
FVH	(80°-90°)	241.8	0.6			G3/500
BL	(0°-30°)	1590.8	3.9	B3/2500		
BM	(30°-60°)	9579.1	23.3	B5		
BH	(60°-80°)	9187.4	22.3	B5		G4/12000
BVH	(80°-90°)	241.8	0.6			G3/500
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°	2871.9	2871.9	2871.9	2871.9	2871.9	2871.9	2871.9	2871.9	2871.9	2871.9	2871.9
2.5°	2910.2	2910.2	2902.5	2902.5	2887.2	2879.5	2871.9	2871.9	2864.2	2864.2	2856.6
5°	2925.5	2925.5	2925.5	2917.8	2910.2	2902.5	2887.2	2871.9	2864.2	2856.6	2848.9
7.5°	2933.2	2933.2	2925.5	2925.5	2917.8	2910.2	2887.2	2864.2	2856.6	2848.9	2848.9
10°	2994.4	2986.8	2979.1	2963.8	2963.8	2963.8	2933.2	2910.2	2902.5	2902.5	2902.5
12.5°	3139.9	3132.3	3117.0	3094.0	3094.0	3101.6	3055.7	3025.1	3025.1	3017.4	3017.4
15°	3354.4	3346.7	3331.4	3293.1	3285.4	3300.8	3231.8	3201.2	3201.2	3201.2	3193.5
17.5°	3591.8	3576.5	3553.5	3522.9	3522.9	3522.9	3453.9	3415.6	3392.7	3392.7	3385.0
20°	3790.9	3783.2	3783.2	3775.6	3798.6	3798.6	3706.7	3645.4	3591.8	3561.1	3553.5
22.5°	3967.0	3959.4	3974.7	4005.3	4051.3	4066.6	3959.4	3867.5	3783.2	3722.0	3706.7
25°	4204.4	4196.8	4189.1	4235.1	4311.7	4334.6	4219.8	4104.9	4020.6	3990.0	3974.7
27.5°	4457.2	4464.8	4472.5	4518.4	4579.7	4618.0	4503.1	4395.9	4327.0	4281.0	4265.7
30°	4740.5	4755.8	4778.8	4847.7	4893.7	4909.0	4809.5	4732.9	4671.6	4633.3	4610.3
32.5°	5100.5	5131.1	5161.7	5223.0	5246.0	5230.7	5184.7	5131.1	5085.2	5031.5	5023.9
35°	5636.6	5667.2	5659.5	5682.5	5690.2	5674.9	5651.9	5621.2	5598.3	5529.3	5521.7
37.5°	6310.5	6341.1	6295.2	6272.2	6218.6	6226.3	6218.6	6241.6	6249.2	6180.3	6172.6
40°	6992.1	7022.7	6961.5	6900.2	6846.6	6823.6	6861.9	6938.5	6938.5	6892.5	6892.5
42.5°	7719.6	7742.6	7643.1	7566.5	7497.5	7482.2	7505.2	7597.1	7620.1	7612.4	7612.4
45°	8447.2	8431.9	8301.7	8225.1	8163.8	8125.5	8133.2	8202.1	8248.1	8271.0	8271.0
47.5°	9006.2	8983.3	8876.1	8814.8	8776.5	8722.9	8722.9	8761.2	8784.2	8791.8	8791.8
50°	9450.4	9427.5	9320.2	9312.6	9312.6	9289.6	9266.6	9259.0	9243.7	9251.3	9251.3
52.5°	9833.3	9802.7	9726.1	9741.4	9810.4	9825.7	9795.1	9733.8	9672.5	9649.5	9657.2
55°	10246.9	10201.0	10139.7	10185.6	10323.5	10384.8	10338.8	10216.3	10109.1	10040.1	10040.1
57.5°	10576.2	10522.6	10522.6	10652.8	10905.5	11028.1	10928.5	10698.7	10514.9	10438.4	10446.0
60°	10346.5	10300.5	10484.3	11058.7	11533.5	11740.3	11571.8	11165.9	10867.2	10775.3	10790.6
62.5°	9894.6	9864.0	10093.7	10982.1	12100.2	12529.1	12276.4	11694.3	11250.1	11142.9	11142.9
65°	9228.3	9220.7	9542.3	10637.5	12230.4	13287.3	13072.8	12268.7	11694.3	11548.8	11579.5
67.5°	8539.1	8539.1	8830.1	10047.8	12077.3	13608.9	13777.4	12789.5	11908.8	11548.8	11556.5
70°	7321.4	7451.6	8225.1	9504.0	11518.2	13379.2	14068.4	12421.9	10974.4	10338.8	10315.8
72.5°	4824.8	4993.3	6532.6	8554.4	10966.8	12544.4	12697.6	10913.2	9113.5	8370.6	8332.3
75°	2910.2	3055.7	4235.1	6678.1	9641.9	10101.4	9427.5	8554.4	6808.3	6226.3	6226.3
77.5°	857.7	957.3	1952.9	4235.1	6670.4	6639.8	5812.7	5039.2	4028.3	3423.3	3469.2
80°	505.5	520.8	635.6	1929.9	2764.7	2910.2	2243.9	1401.5	1401.5	1041.5	1010.9
82.5°	390.6	390.6	405.9	482.5	666.3	742.9	566.7	482.5	551.4	467.2	444.2
85°	275.7	275.7	275.7	283.4	291.0	298.7	314.0	321.7	352.3	291.0	275.7
87.5°	84.2	91.9	99.6	114.9	137.9	145.5	153.2	137.9	137.9	130.2	122.5
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)