

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: P841117

Luminaire Tested: **ARCH4-130-750-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841117
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: ARCH4-130-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22725 lumens
Efficiency: N/A
Efficacy: 172.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B5 - U0 - G3

Input Watts (W): 132
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

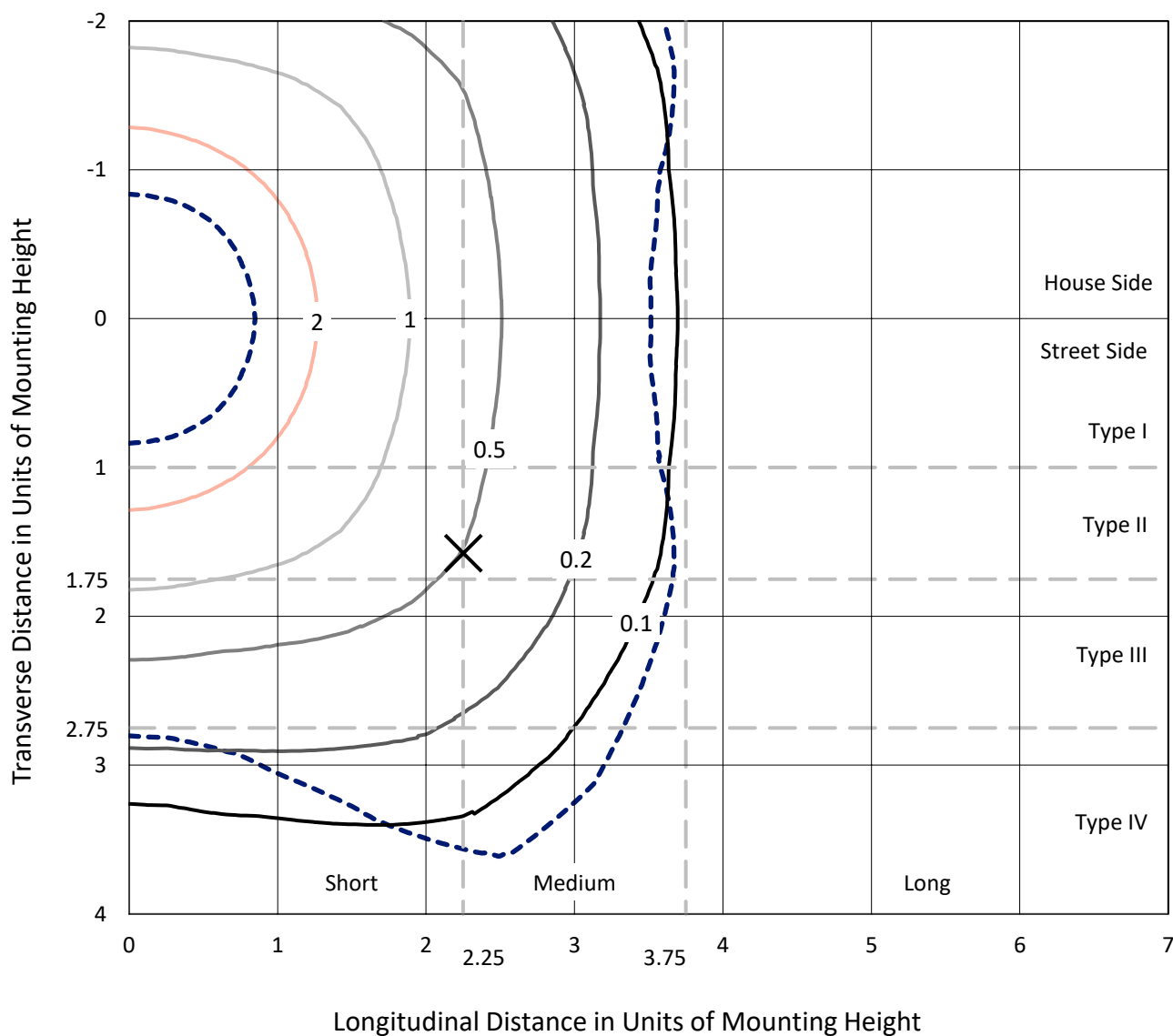


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Iso-Footcandle Lines of Horizontal Illumination

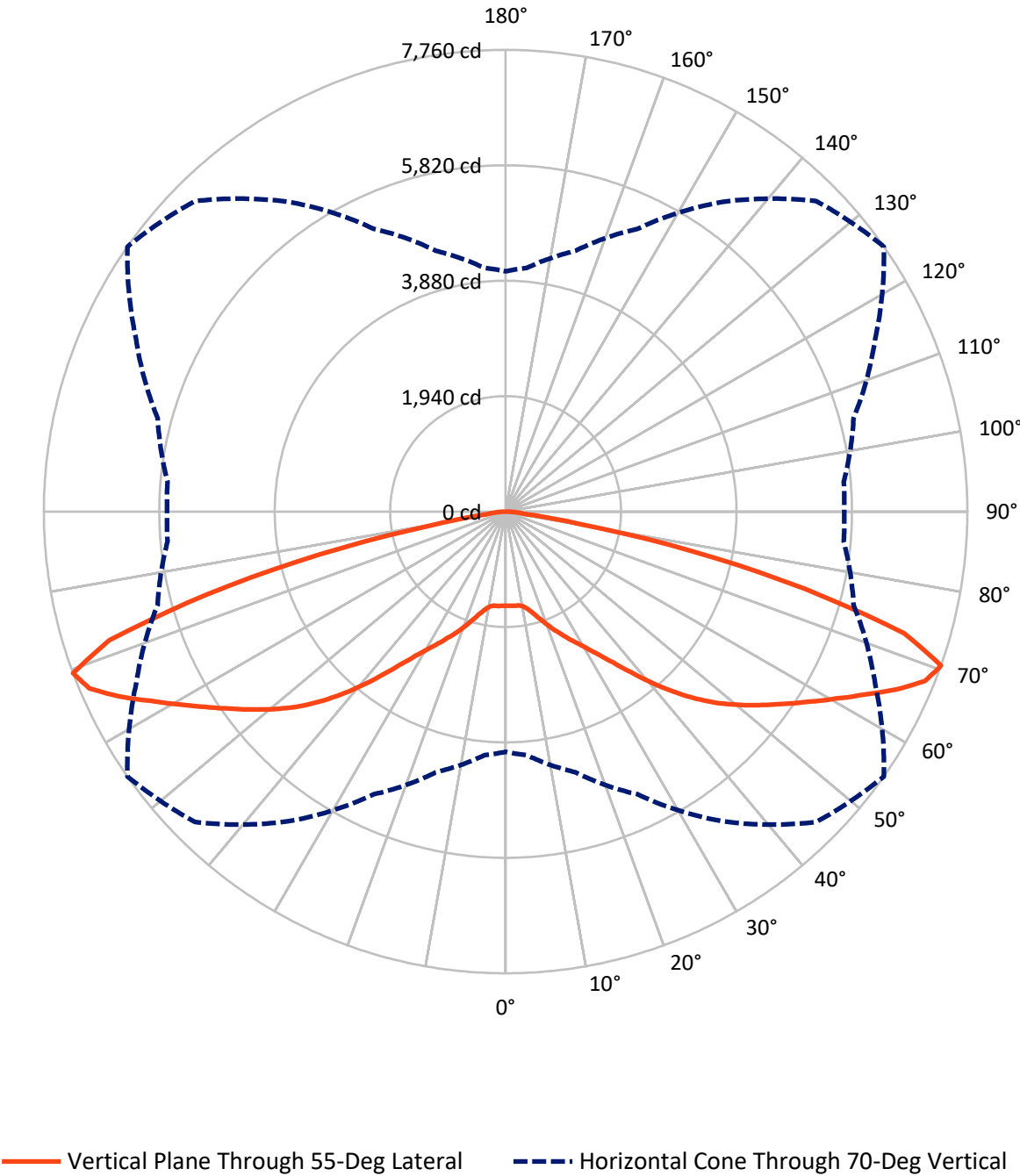
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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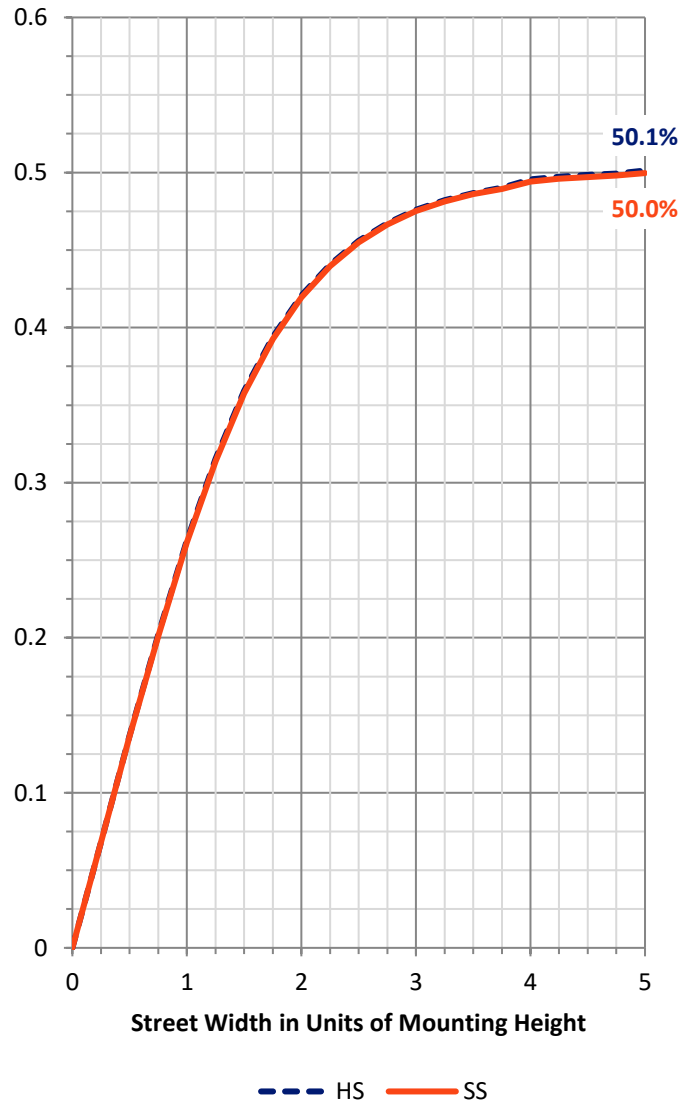
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11362.5	0.0	11362.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11362.5	0.0	11362.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22725.0	0.0	22725.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	0.7
10°-20°	520.5	2.3
20°-30°	1081.5	4.8
30°-40°	1997.5	8.8
40°-50°	3509.2	15.4
50°-60°	5061.0	22.3
60°-70°	6194.2	27.3
70°-80°	3941.5	17.3
80°-90°	266.7	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°	22725.0	100.0
0°-180°	22725.0	100.0

Coefficient of Utilization



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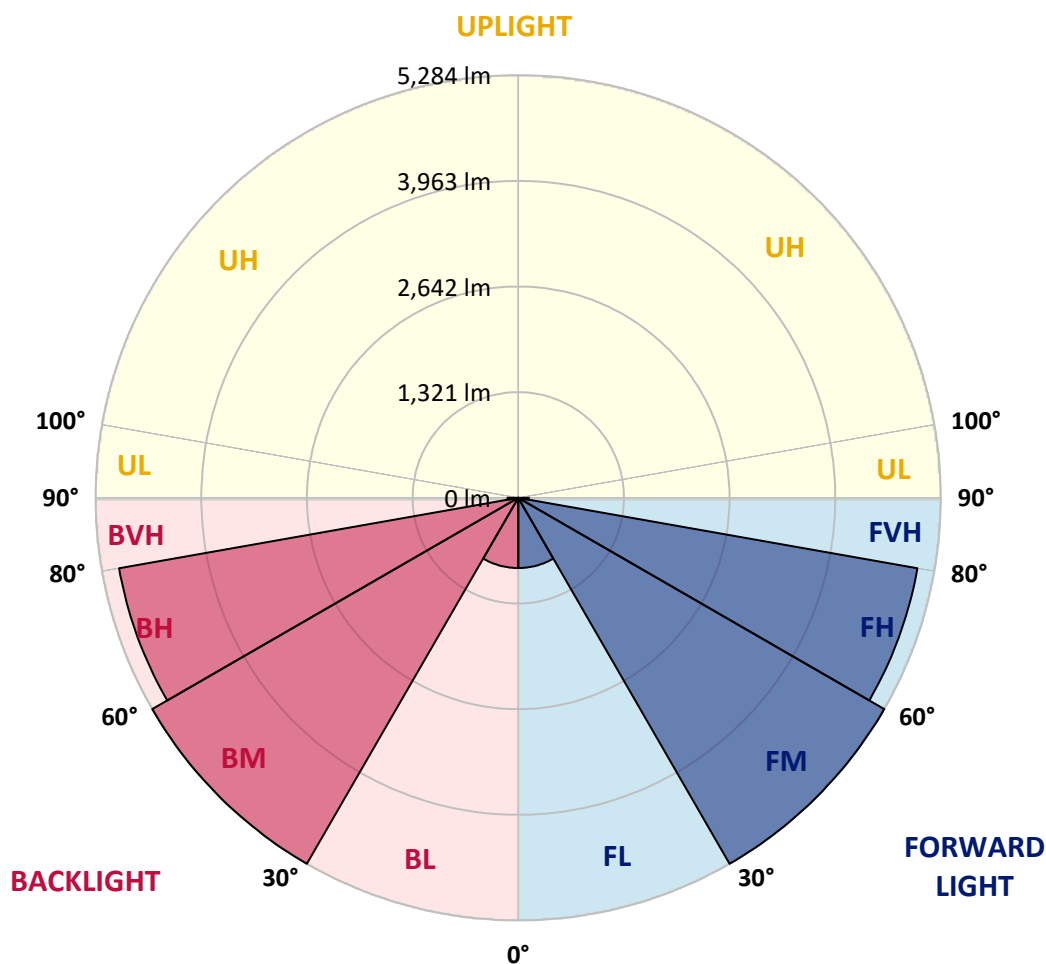
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	877.5	3.9			
FM	(30°-60°)	5283.9	23.3			
FH	(60°-80°)	5067.8	22.3			G3/7500
FVH	(80°-90°)	133.3	0.6			G2/225
BL	(0°-30°)	877.5	3.9	B2/1000		
BM	(30°-60°)	5283.9	23.3	B4/8500		
BH	(60°-80°)	5067.8	22.3	B5		G3/7500
BVH	(80°-90°)	133.3	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-G3

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1
2.5°	1605.3	1605.3	1601.0	1601.0	1592.6	1588.4	1584.1	1584.1	1579.9	1579.9	1575.7
5°	1613.7	1613.7	1613.7	1609.5	1605.3	1601.0	1592.6	1584.1	1579.9	1575.7	1571.5
7.5°	1617.9	1617.9	1613.7	1613.7	1609.5	1605.3	1592.6	1579.9	1575.7	1571.5	1571.5
10°	1651.7	1647.5	1643.3	1634.8	1634.8	1634.8	1617.9	1605.3	1601.0	1601.0	1601.0
12.5°	1732.0	1727.8	1719.3	1706.7	1706.7	1710.9	1685.5	1668.6	1668.6	1664.4	1664.4
15°	1850.3	1846.1	1837.6	1816.5	1812.3	1820.7	1782.7	1765.8	1765.8	1765.8	1761.6
17.5°	1981.2	1972.8	1960.1	1943.2	1943.2	1943.2	1905.2	1884.1	1871.4	1871.4	1867.2
20°	2091.1	2086.8	2086.8	2082.6	2095.3	2095.3	2044.6	2010.8	1981.2	1964.3	1960.1
22.5°	2188.2	2184.0	2192.5	2209.4	2234.7	2243.2	2184.0	2133.3	2086.8	2053.1	2044.6
25°	2319.2	2315.0	2310.7	2336.1	2378.3	2391.0	2327.6	2264.3	2217.8	2200.9	2192.5
27.5°	2458.6	2462.8	2467.0	2492.4	2526.2	2547.3	2483.9	2424.8	2386.8	2361.4	2353.0
30°	2614.9	2623.3	2636.0	2674.0	2699.4	2707.8	2652.9	2610.7	2576.9	2555.8	2543.1
32.5°	2813.4	2830.3	2847.2	2881.0	2893.7	2885.3	2859.9	2830.3	2805.0	2775.4	2771.2
35°	3109.2	3126.0	3121.8	3134.5	3138.7	3130.3	3117.6	3100.7	3088.0	3050.0	3045.8
37.5°	3480.9	3497.8	3472.4	3459.8	3430.2	3434.4	3430.2	3442.9	3447.1	3409.1	3404.9
40°	3856.9	3873.8	3840.0	3806.2	3776.6	3763.9	3785.1	3827.3	3827.3	3802.0	3802.0
42.5°	4258.2	4270.9	4215.9	4173.7	4135.7	4127.2	4139.9	4190.6	4203.3	4199.0	4199.0
45°	4659.5	4651.1	4579.2	4537.0	4503.2	4482.1	4486.3	4524.3	4549.7	4562.3	4562.3
47.5°	4967.9	4955.2	4896.1	4862.3	4841.2	4811.6	4811.6	4832.7	4845.4	4849.6	4849.6
50°	5212.9	5200.2	5141.1	5136.9	5136.9	5124.2	5111.5	5107.3	5098.8	5103.1	5103.1
52.5°	5424.1	5407.2	5365.0	5373.4	5411.4	5419.9	5403.0	5369.2	5335.4	5322.7	5327.0
55°	5652.2	5626.9	5593.1	5618.4	5694.5	5728.3	5702.9	5635.3	5576.2	5538.2	5538.2
57.5°	5833.9	5804.3	5804.3	5876.1	6015.5	6083.1	6028.2	5901.5	5800.1	5757.8	5762.1
60°	5707.2	5681.8	5783.2	6100.0	6361.9	6476.0	6383.1	6159.2	5994.4	5943.7	5952.2
62.5°	5457.9	5441.0	5567.7	6057.8	6674.5	6911.1	6771.7	6450.6	6205.6	6146.5	6146.5
65°	5090.4	5086.2	5263.6	5867.7	6746.4	7329.3	7211.0	6767.5	6450.6	6370.4	6387.3
67.5°	4710.2	4710.2	4870.7	5542.4	6661.9	7506.7	7599.7	7054.7	6568.9	6370.4	6374.6
70°	4038.5	4110.3	4537.0	5242.5	6353.5	7380.0	7760.2	6852.0	6053.6	5702.9	5690.3
72.5°	2661.4	2754.3	3603.4	4718.6	6049.3	6919.6	7004.0	6019.8	5027.0	4617.3	4596.1
75°	1605.3	1685.5	2336.1	3683.7	5318.5	5572.0	5200.2	4718.6	3755.5	3434.4	3434.4
77.5°	473.1	528.0	1077.2	2336.1	3679.4	3662.5	3206.3	2779.6	2222.0	1888.3	1913.6
80°	278.8	287.3	350.6	1064.5	1525.0	1605.3	1237.7	773.1	773.1	574.5	557.6
82.5°	215.4	215.4	223.9	266.1	367.5	409.8	312.6	266.1	304.2	257.7	245.0
85°	152.1	152.1	152.1	156.3	160.5	164.8	173.2	177.4	194.3	160.5	152.1
87.5°	46.5	50.7	54.9	63.4	76.0	80.3	84.5	76.0	76.0	71.8	67.6
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)