

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: P841189

Luminaire Tested: **ARCH4-140-750-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841189
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: ARCH4-140-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24086 lumens
Efficiency: N/A
Efficacy: 170.5 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): 141.3
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

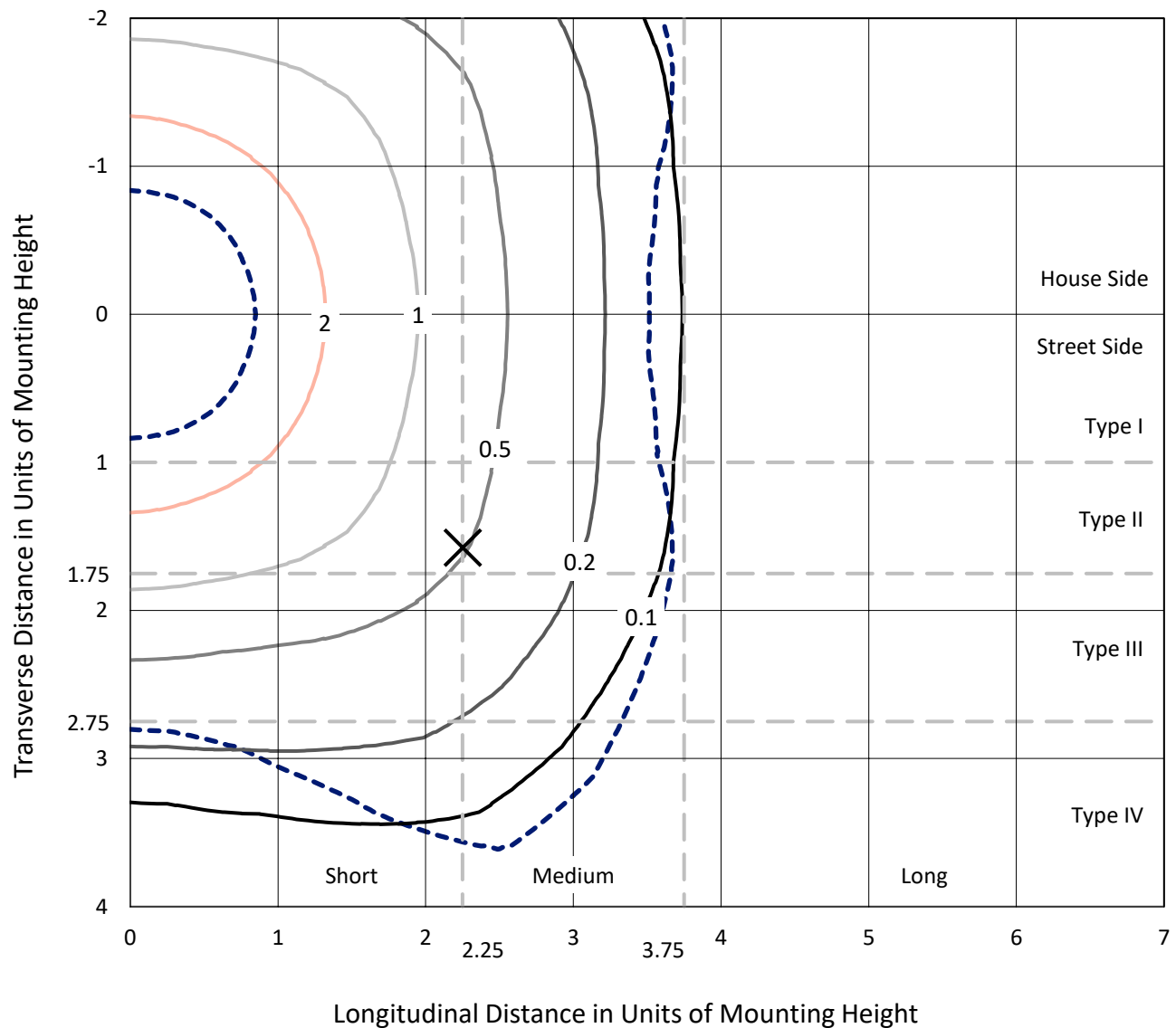


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Iso-Footcandle Lines of Horizontal Illumination

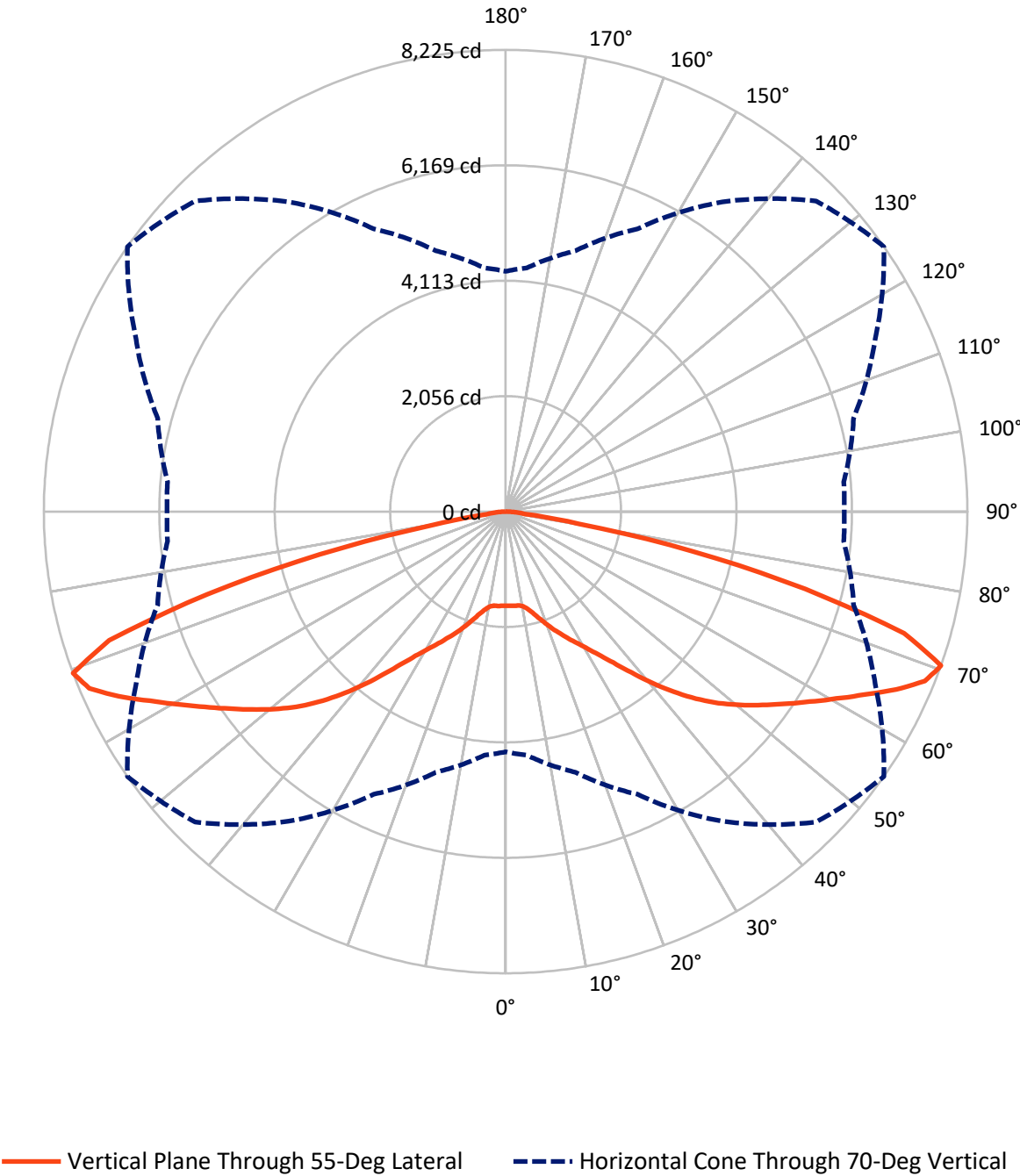
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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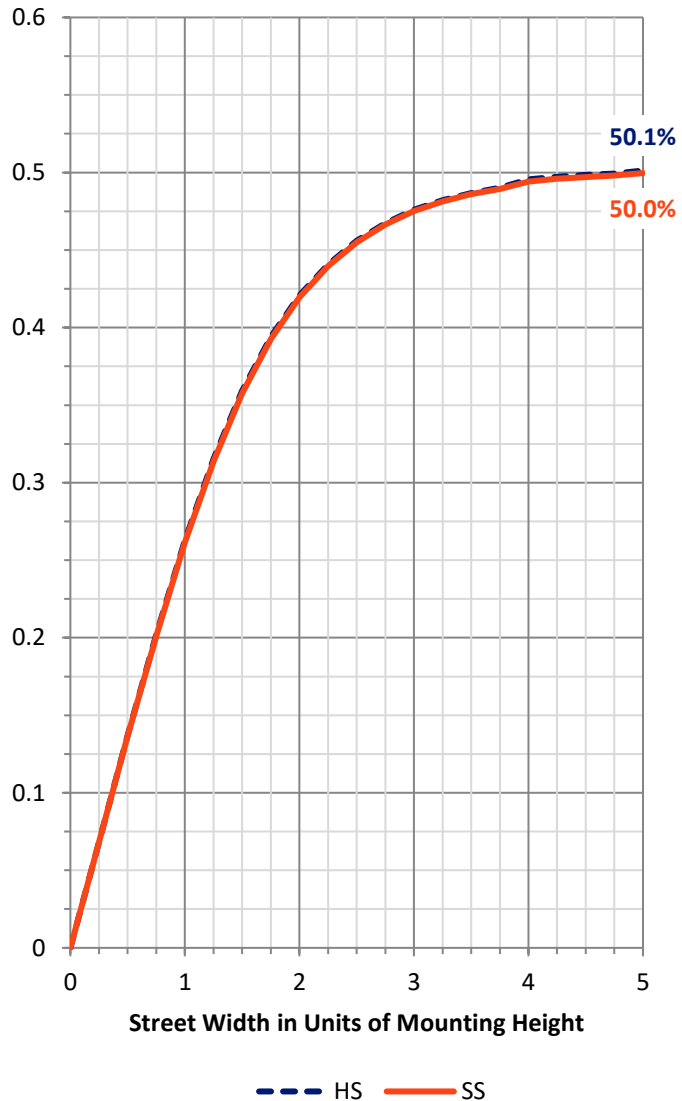
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12043.0	0.0	12043.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12043.0	0.0	12043.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24086.0	0.0	24086.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.1	0.7
10°-20°	551.7	2.3
20°-30°	1146.3	4.8
30°-40°	2117.1	8.8
40°-50°	3719.3	15.4
50°-60°	5364.2	22.3
60°-70°	6565.1	27.3
70°-80°	4177.5	17.3
80°-90°	282.7	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°	24086.0	100.0
0°-180°	24086.0	100.0

Coefficient of Utilization



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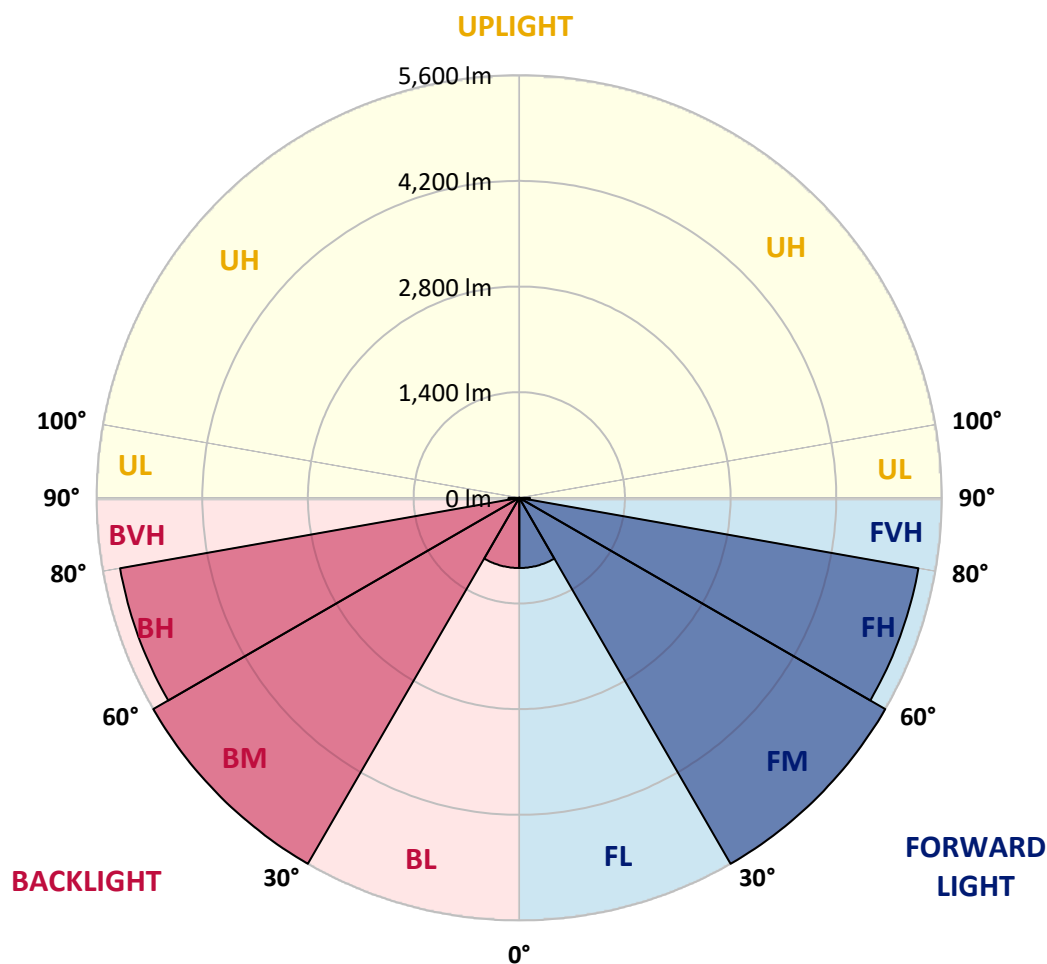
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	930.0	3.9			
FM	(30°-60°)	5600.3	23.3			
FH	(60°-80°)	5371.3	22.3			G3/7500
FVH	(80°-90°)	141.3	0.6			G2/225
BL	(0°-30°)	930.0	3.9	B2/1000		
BM	(30°-60°)	5600.3	23.3	B4/8500		
BH	(60°-80°)	5371.3	22.3	B5		G3/7500
BVH	(80°-90°)	141.3	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°	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0	1679.0
2.5°	1701.4	1701.4	1696.9	1696.9	1688.0	1683.5	1679.0	1679.0	1674.5	1674.5	1670.1
5°	1710.4	1710.4	1710.4	1705.9	1701.4	1696.9	1688.0	1679.0	1674.5	1670.1	1665.6
7.5°	1714.8	1714.8	1710.4	1710.4	1705.9	1701.4	1688.0	1674.5	1670.1	1665.6	1665.6
10°	1750.7	1746.2	1741.7	1732.8	1732.8	1732.8	1714.8	1701.4	1696.9	1696.9	1696.9
12.5°	1835.7	1831.3	1822.3	1808.9	1808.9	1813.3	1786.5	1768.6	1768.6	1764.1	1764.1
15°	1961.1	1956.6	1947.7	1925.3	1920.8	1929.8	1889.5	1871.5	1871.5	1871.5	1867.1
17.5°	2099.9	2090.9	2077.5	2059.6	2059.6	2059.6	2019.3	1996.9	1983.5	1983.5	1979.0
20°	2216.3	2211.8	2211.8	2207.4	2220.8	2220.8	2167.1	2131.2	2099.9	2082.0	2077.5
22.5°	2319.3	2314.8	2323.8	2341.7	2368.5	2377.5	2314.8	2261.1	2211.8	2176.0	2167.1
25°	2458.1	2453.6	2449.1	2476.0	2520.8	2534.2	2467.0	2399.9	2350.6	2332.7	2323.8
27.5°	2605.8	2610.3	2614.8	2641.7	2677.5	2699.9	2632.7	2570.0	2529.7	2502.9	2493.9
30°	2771.5	2780.5	2793.9	2834.2	2861.1	2870.0	2811.8	2767.0	2731.2	2708.8	2695.4
32.5°	2981.9	2999.9	3017.8	3053.6	3067.0	3058.1	3031.2	2999.9	2973.0	2941.6	2937.2
35°	3295.4	3313.3	3308.8	3322.2	3326.7	3317.7	3304.3	3286.4	3273.0	3232.7	3228.2
37.5°	3689.4	3707.3	3680.4	3667.0	3635.6	3640.1	3635.6	3649.1	3653.6	3613.3	3608.8
40°	4087.9	4105.8	4069.9	4034.1	4002.8	3989.4	4011.7	4056.5	4056.5	4029.7	4029.7
42.5°	4513.2	4526.6	4468.4	4423.7	4383.4	4374.4	4387.8	4441.6	4455.0	4450.5	4450.5
45°	4938.6	4929.6	4853.5	4808.7	4772.9	4750.5	4755.0	4795.3	4822.1	4835.6	4835.6
47.5°	5265.4	5252.0	5189.3	5153.5	5131.1	5099.7	5099.7	5122.1	5135.6	5140.0	5140.0
50°	5525.1	5511.7	5449.0	5444.5	5444.5	5431.1	5417.6	5413.2	5404.2	5408.7	5408.7
52.5°	5749.0	5731.1	5686.3	5695.2	5735.5	5744.5	5726.6	5690.8	5654.9	5641.5	5646.0
55°	5990.7	5963.9	5928.1	5954.9	6035.5	6071.3	6044.5	5972.8	5910.2	5869.9	5869.9
57.5°	6183.3	6151.9	6151.9	6228.1	6375.8	6447.4	6389.2	6254.9	6147.5	6102.7	6107.2
60°	6049.0	6022.1	6129.5	6465.4	6743.0	6863.8	6765.3	6528.0	6353.4	6299.7	6308.6
62.5°	5784.8	5766.9	5901.2	6420.6	7074.3	7325.0	7177.3	6837.0	6577.3	6514.6	6514.6
65°	5395.3	5390.8	5578.8	6219.1	7150.4	7768.3	7642.9	7172.8	6837.0	6751.9	6769.8
67.5°	4992.3	4992.3	5162.4	5874.3	7060.8	7956.3	8054.8	7477.2	6962.3	6751.9	6756.4
70°	4280.4	4356.5	4808.7	5556.4	6734.0	7822.0	8225.0	7262.3	6416.1	6044.5	6031.0
72.5°	2820.8	2919.3	3819.2	5001.2	6411.6	7334.0	7423.5	6380.3	5328.1	4893.8	4871.4
75°	1701.4	1786.5	2476.0	3904.3	5637.0	5905.7	5511.7	5001.2	3980.4	3640.1	3640.1
77.5°	501.5	559.7	1141.7	2476.0	3899.8	3881.9	3398.3	2946.1	2355.1	2001.4	2028.3
80°	295.5	304.5	371.6	1128.3	1616.3	1701.4	1311.9	819.4	819.4	608.9	591.0
82.5°	228.3	228.3	237.3	282.1	389.5	434.3	331.3	282.1	322.4	273.1	259.7
85°	161.2	161.2	161.2	165.7	170.1	174.6	183.6	188.1	206.0	170.1	161.2
87.5°	49.3	53.7	58.2	67.2	80.6	85.1	89.5	80.6	80.6	76.1	71.6
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)