

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: P840973

Luminaire Tested: **ARCH4-110-750-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840973
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: ARCH4-110-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19685 lumens
Efficiency: N/A
Efficacy: 174.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 112.6
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

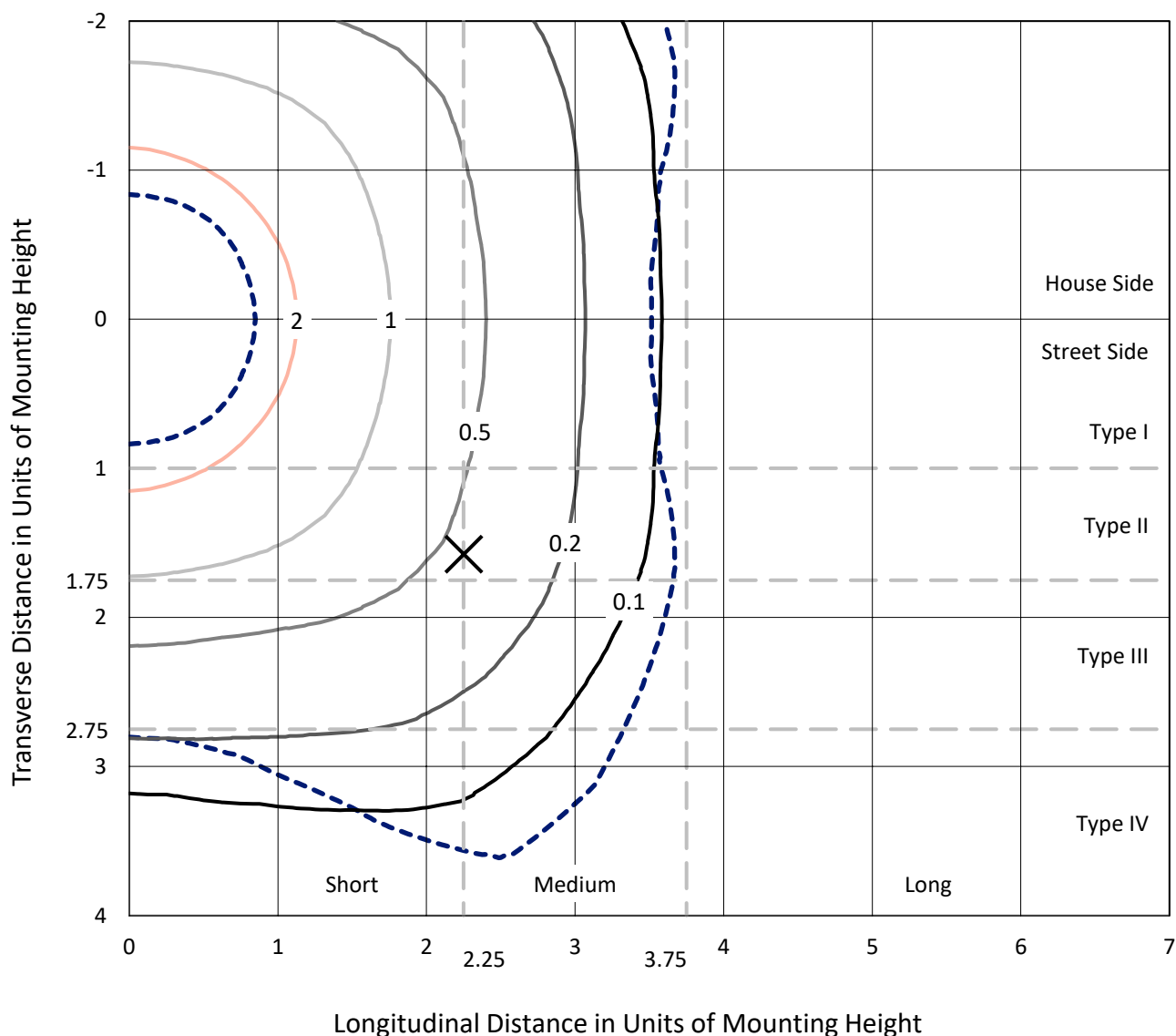


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Iso-Footcandle Lines of Horizontal Illumination

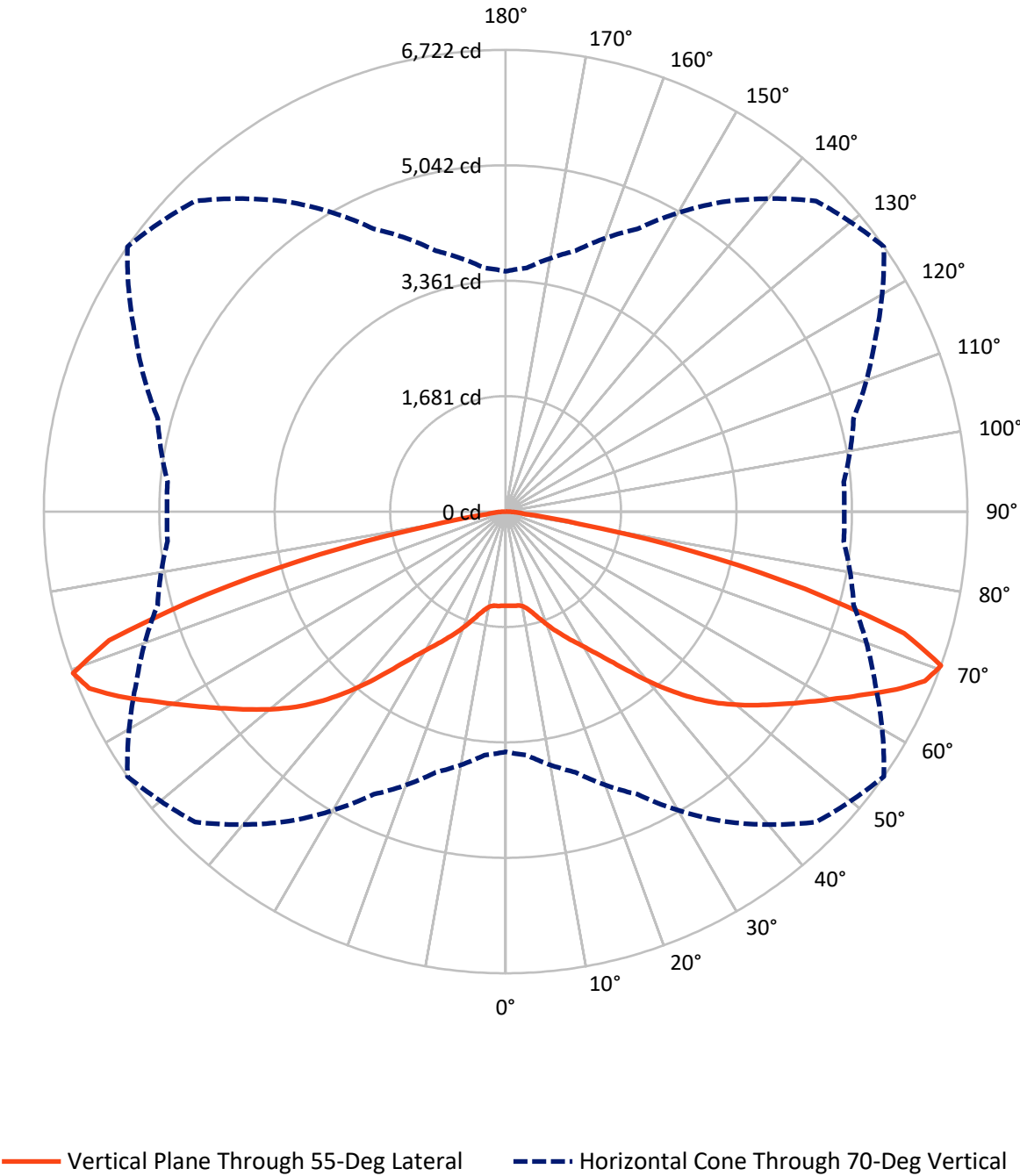
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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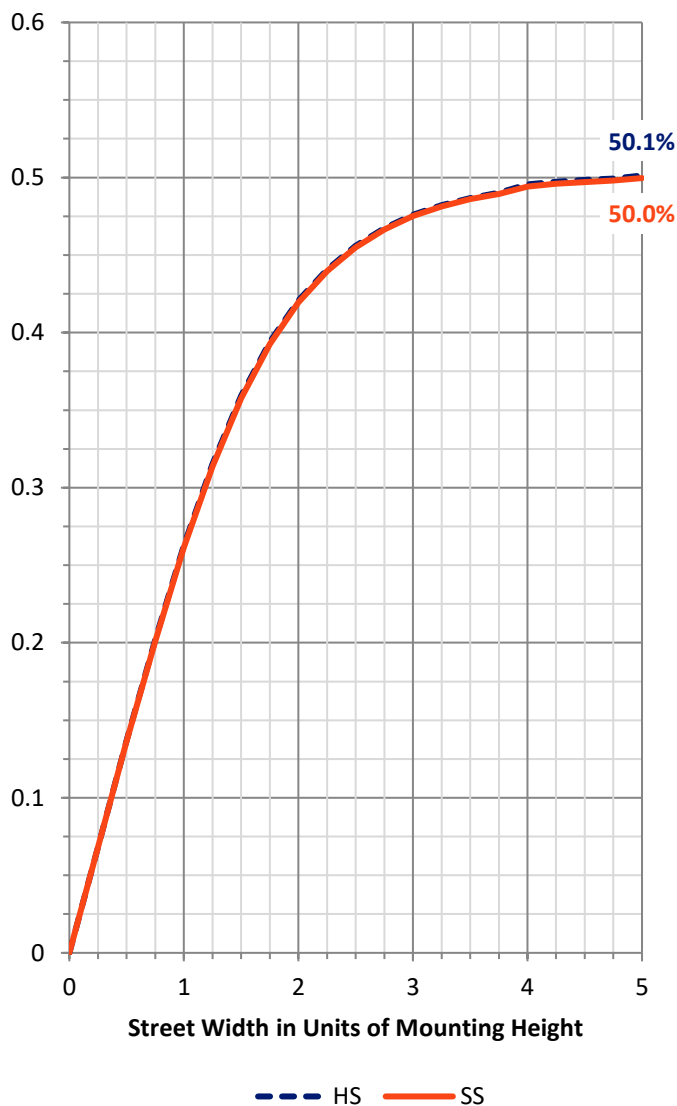
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9842.5	0.0	9842.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9842.5	0.0	9842.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19685.0	0.0	19685.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.5	0.7
10°-20°	450.9	2.3
20°-30°	936.8	4.8
30°-40°	1730.3	8.8
40°-50°	3039.7	15.4
50°-60°	4384.0	22.3
60°-70°	5365.6	27.3
70°-80°	3414.2	17.3
80°-90°	231.0	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°	19685.0	100.0
0°-180°	19685.0	100.0

Coefficient of Utilization



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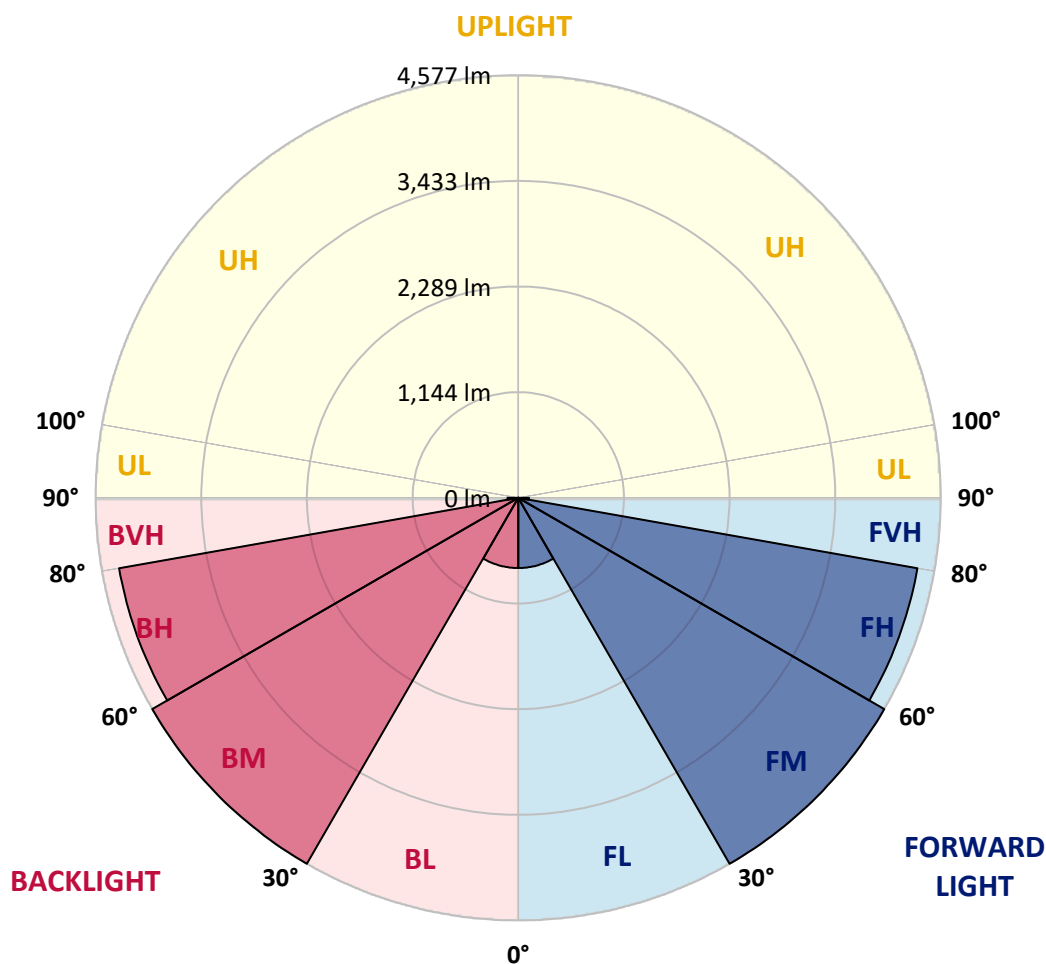
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	760.1	3.9			
FM	(30°-60°)	4577.0	23.3			
FH	(60°-80°)	4389.9	22.3			G2/5000
FVH	(80°-90°)	115.5	0.6			G2/225
BL	(0°-30°)	760.1	3.9	B2/1000		
BM	(30°-60°)	4577.0	23.3	B3/5000		
BH	(60°-80°)	4389.9	22.3	B4/5000		G2/5000
BVH	(80°-90°)	115.5	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2
2.5°	1390.5	1390.5	1386.9	1386.9	1379.5	1375.9	1372.2	1372.2	1368.6	1368.6	1364.9
5°	1397.8	1397.8	1397.8	1394.2	1390.5	1386.9	1379.5	1372.2	1368.6	1364.9	1361.3
7.5°	1401.5	1401.5	1397.8	1397.8	1394.2	1390.5	1379.5	1368.6	1364.9	1361.3	1361.3
10°	1430.8	1427.1	1423.5	1416.1	1416.1	1416.1	1401.5	1390.5	1386.9	1386.9	1386.9
12.5°	1500.3	1496.6	1489.3	1478.3	1478.3	1482.0	1460.1	1445.4	1445.4	1441.8	1441.8
15°	1602.8	1599.1	1591.8	1573.5	1569.8	1577.1	1544.2	1529.6	1529.6	1529.6	1525.9
17.5°	1716.2	1708.9	1697.9	1683.3	1683.3	1683.3	1650.3	1632.0	1621.1	1621.1	1617.4
20°	1811.3	1807.7	1807.7	1804.0	1815.0	1815.0	1771.1	1741.8	1716.2	1701.6	1697.9
22.5°	1895.5	1891.8	1899.2	1913.8	1935.8	1943.1	1891.8	1847.9	1807.7	1778.4	1771.1
25°	2008.9	2005.3	2001.6	2023.6	2060.2	2071.2	2016.3	1961.4	1921.1	1906.5	1899.2
27.5°	2129.7	2133.4	2137.0	2159.0	2188.2	2206.5	2151.7	2100.4	2067.5	2045.5	2038.2
30°	2265.1	2272.4	2283.4	2316.3	2338.3	2345.6	2298.0	2261.4	2232.2	2213.9	2202.9
32.5°	2437.1	2451.7	2466.4	2495.6	2506.6	2499.3	2477.3	2451.7	2429.8	2404.1	2400.5
35°	2693.2	2707.9	2704.2	2715.2	2718.8	2711.5	2700.5	2685.9	2674.9	2642.0	2638.3
37.5°	3015.2	3029.9	3007.9	2997.0	2971.3	2975.0	2971.3	2982.3	2986.0	2953.0	2949.4
40°	3340.9	3355.6	3326.3	3297.0	3271.4	3260.4	3278.7	3315.3	3315.3	3293.4	3293.4
42.5°	3688.6	3699.5	3652.0	3615.4	3582.4	3575.1	3586.1	3630.0	3641.0	3637.3	3637.3
45°	4036.2	4028.9	3966.7	3930.1	3900.8	3882.5	3886.2	3919.1	3941.0	3952.0	3952.0
47.5°	4303.3	4292.3	4241.1	4211.8	4193.5	4167.9	4167.9	4186.2	4197.2	4200.9	4200.9
50°	4515.6	4504.6	4453.3	4449.7	4449.7	4438.7	4427.7	4424.1	4416.8	4420.4	4420.4
52.5°	4698.5	4683.9	4647.3	4654.6	4687.5	4694.9	4680.2	4650.9	4621.7	4610.7	4614.4
55°	4896.1	4874.2	4844.9	4866.8	4932.7	4962.0	4940.0	4881.5	4830.3	4797.3	4797.3
57.5°	5053.5	5027.9	5027.9	5090.1	5210.8	5269.4	5221.8	5112.0	5024.2	4987.6	4991.3
60°	4943.7	4921.7	5009.6	5284.0	5510.9	5609.7	5529.2	5335.2	5192.5	5148.6	5155.9
62.5°	4727.8	4713.2	4822.9	5247.4	5781.7	5986.6	5865.8	5587.7	5375.5	5324.3	5324.3
65°	4409.4	4405.8	4559.5	5082.7	5843.9	6348.9	6246.4	5862.2	5587.7	5518.2	5532.8
67.5°	4080.1	4080.1	4219.2	4801.0	5770.7	6502.5	6583.0	6111.0	5690.2	5518.2	5521.9
70°	3498.3	3560.5	3930.1	4541.2	5503.6	6392.8	6722.1	5935.4	5243.7	4940.0	4929.1
72.5°	2305.3	2385.9	3121.4	4087.4	5240.1	5993.9	6067.1	5214.5	4354.5	3999.6	3981.3
75°	1390.5	1460.1	2023.6	3190.9	4607.0	4826.6	4504.6	4087.4	3253.1	2975.0	2975.0
77.5°	409.8	457.4	933.1	2023.6	3187.2	3172.6	2777.4	2407.8	1924.8	1635.7	1657.7
80°	241.5	248.8	303.7	922.1	1321.0	1390.5	1072.2	669.6	669.6	497.7	483.0
82.5°	186.6	186.6	193.9	230.5	318.4	355.0	270.8	230.5	263.5	223.2	212.2
85°	131.7	131.7	131.7	135.4	139.1	142.7	150.0	153.7	168.3	139.1	131.7
87.5°	40.3	43.9	47.6	54.9	65.9	69.5	73.2	65.9	65.9	62.2	58.5
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)