

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: P840937

Luminaire Tested: **ARCH4-110-727-U-5WQ**

Issue Date: 5/27/2024

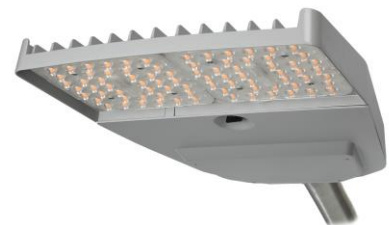
Test Information

Test Method: LM-79-08
Report Number: P840937
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: ARCH4-110-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18091 lumens
Efficiency: N/A
Efficacy: 160.7 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

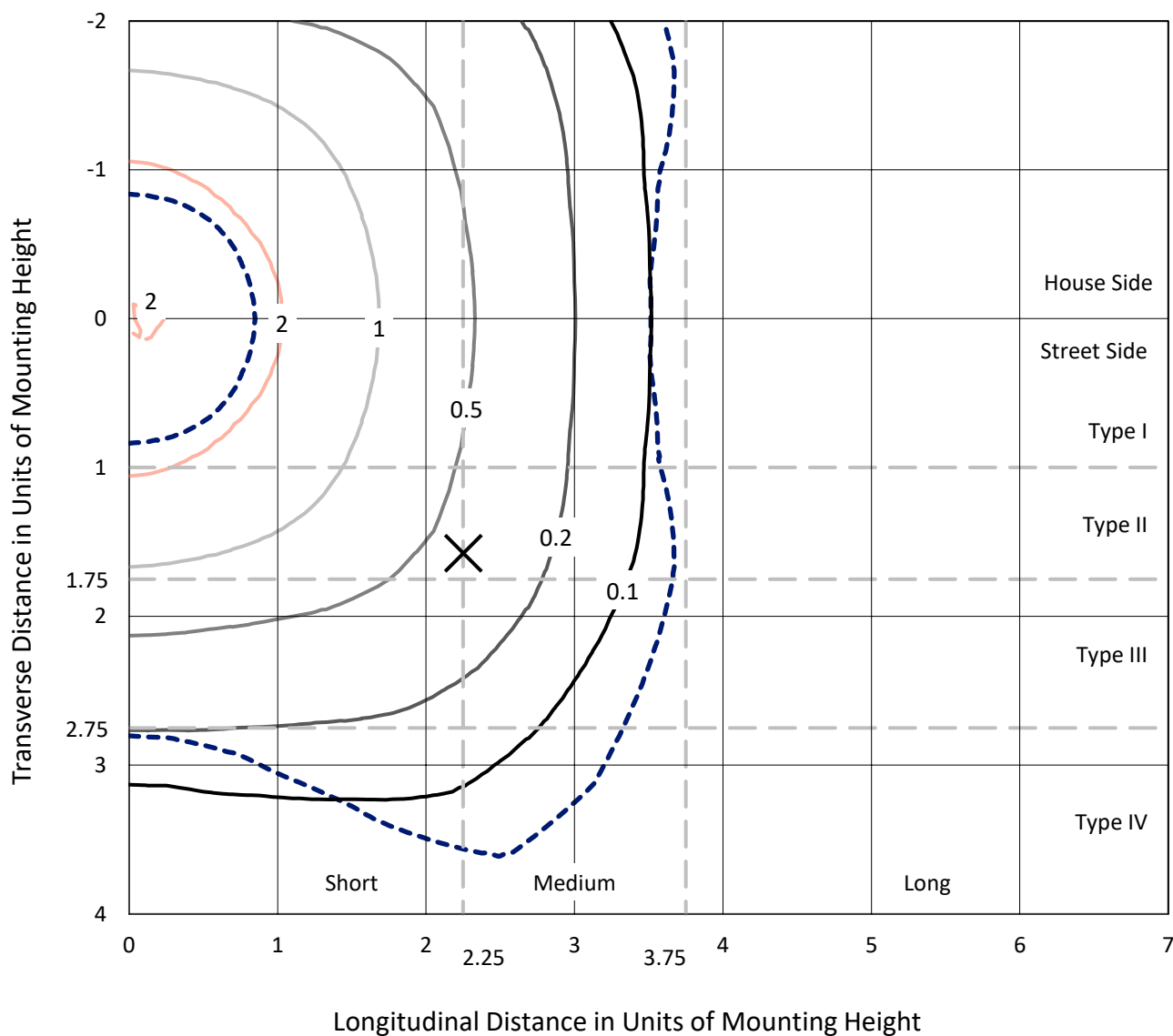


REPORT NUMBER: P840937

CATALOG NUMBER: ARCH4-110-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

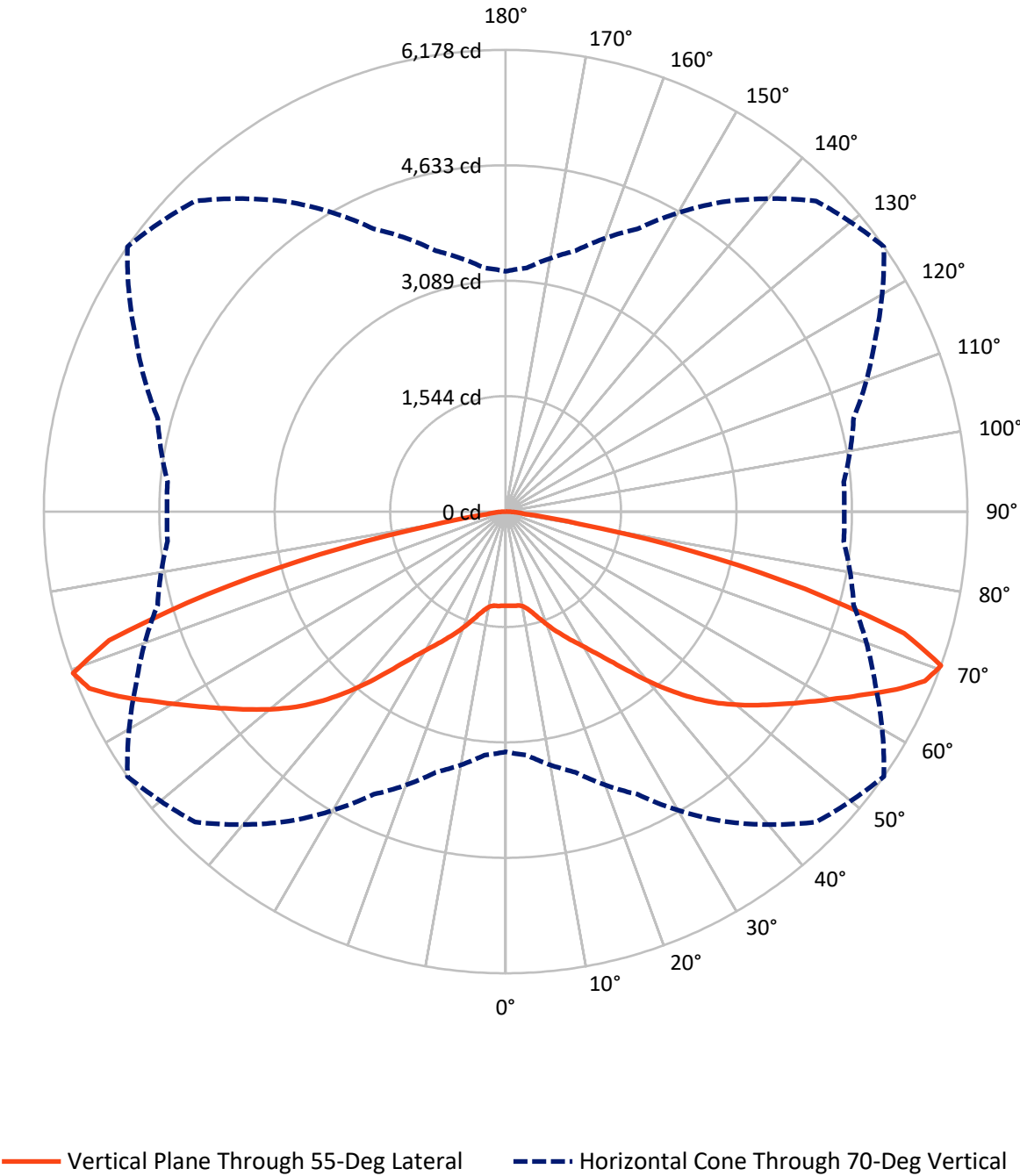
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type V - Medium - N/A

REPORT NUMBER: P840937
CATALOG NUMBER: ARCH4-110-727-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P840937

CATALOG NUMBER: ARCH4-110-727-U-5WQ

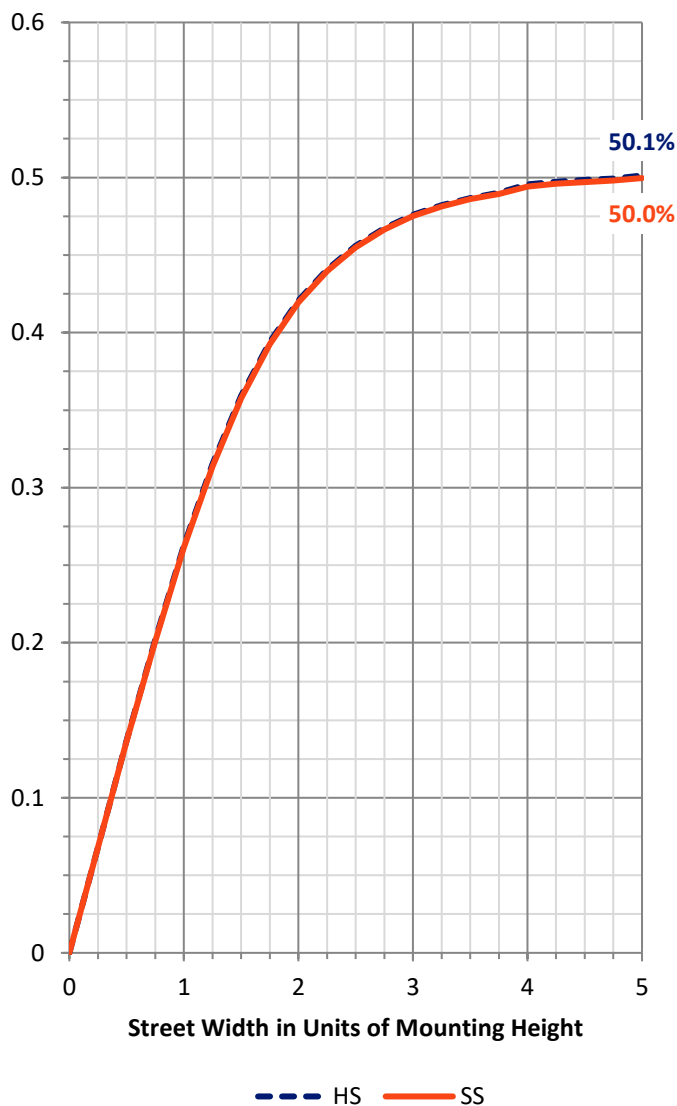
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9045.5	0.0	9045.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9045.5	0.0	9045.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18091.0	0.0	18091.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	0.7
10°-20°	414.4	2.3
20°-30°	861.0	4.8
30°-40°	1590.2	8.8
40°-50°	2793.6	15.4
50°-60°	4029.0	22.3
60°-70°	4931.1	27.3
70°-80°	3137.7	17.3
80°-90°	212.3	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°	18091.0	100.0
0°-180°	18091.0	100.0

Coefficient of Utilization



REPORT NUMBER: P840937

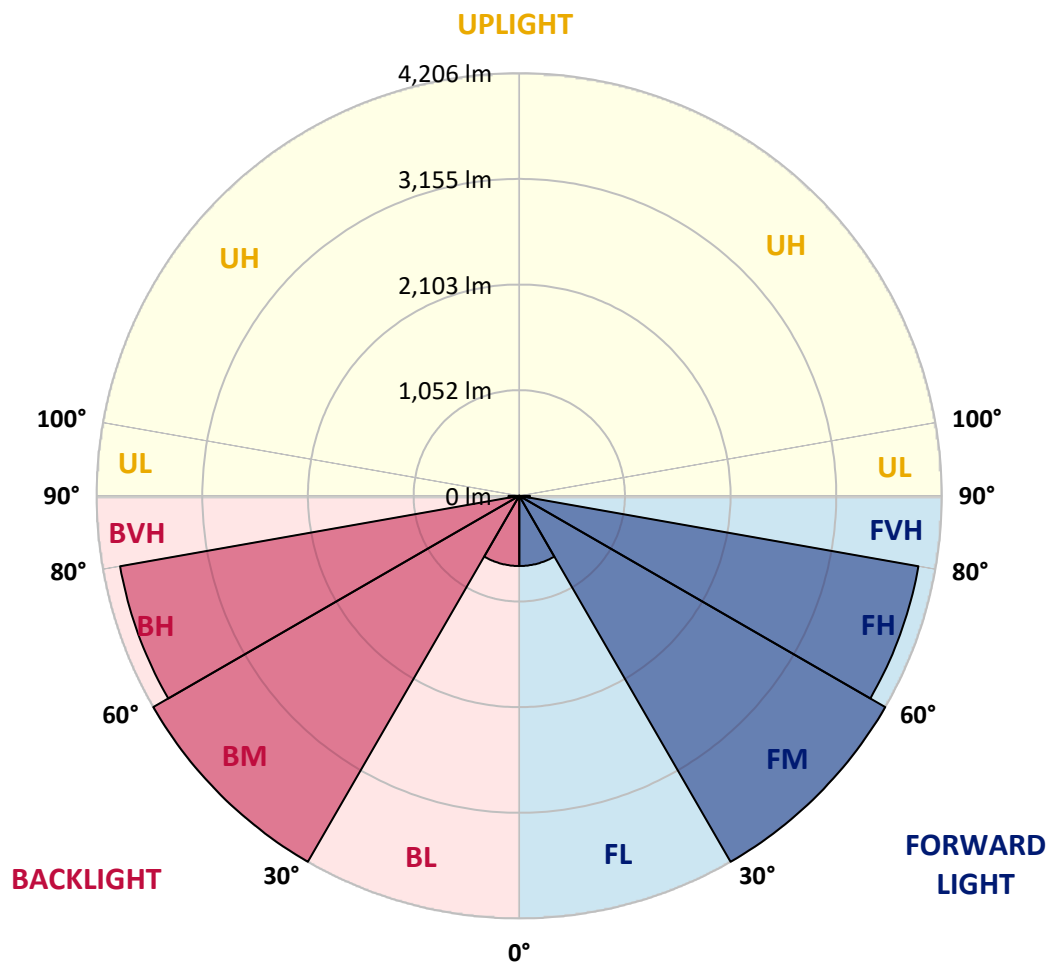
CATALOG NUMBER: ARCH4-110-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	698.5	3.9			
FM	(30°-60°)	4206.4	23.3			
FH	(60°-80°)	4034.4	22.3			G2/5000
FVH	(80°-90°)	106.2	0.6			G2/225
BL	(0°-30°)	698.5	3.9	B2/1000		
BM	(30°-60°)	4206.4	23.3	B3/5000		
BH	(60°-80°)	4034.4	22.3	B4/5000		G2/5000
BVH	(80°-90°)	106.2	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



REPORT NUMBER: P840937

CATALOG NUMBER: ARCH4-110-727-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1261.1	1261.1	1261.1	1261.1	1261.1	1261.1	1261.1	1261.1	1261.1	1261.1	1261.1
2.5°	1277.9	1277.9	1274.6	1274.6	1267.8	1264.5	1261.1	1261.1	1257.8	1257.8	1254.4
5°	1284.7	1284.7	1284.7	1281.3	1277.9	1274.6	1267.8	1261.1	1257.8	1254.4	1251.0
7.5°	1288.0	1288.0	1284.7	1284.7	1281.3	1277.9	1267.8	1257.8	1254.4	1251.0	1251.0
10°	1314.9	1311.6	1308.2	1301.5	1301.5	1301.5	1288.0	1277.9	1274.6	1274.6	1274.6
12.5°	1378.8	1375.5	1368.7	1358.6	1358.6	1362.0	1341.8	1328.4	1328.4	1325.0	1325.0
15°	1473.0	1469.6	1462.9	1446.1	1442.7	1449.4	1419.2	1405.7	1405.7	1405.7	1402.4
17.5°	1577.2	1570.5	1560.4	1547.0	1547.0	1547.0	1516.7	1499.9	1489.8	1489.8	1486.4
20°	1664.7	1661.3	1661.3	1657.9	1668.0	1668.0	1627.7	1600.8	1577.2	1563.8	1560.4
22.5°	1742.0	1738.7	1745.4	1758.8	1779.0	1785.7	1738.7	1698.3	1661.3	1634.4	1627.7
25°	1846.3	1842.9	1839.5	1859.7	1893.4	1903.4	1853.0	1802.6	1765.6	1752.1	1745.4
27.5°	1957.2	1960.6	1964.0	1984.2	2011.1	2027.9	1977.4	1930.3	1900.1	1879.9	1873.2
30°	2081.7	2088.4	2098.5	2128.8	2148.9	2155.7	2111.9	2078.3	2051.4	2034.6	2024.5
32.5°	2239.7	2253.2	2266.6	2293.5	2303.6	2296.9	2276.7	2253.2	2233.0	2209.5	2206.1
35°	2475.1	2488.6	2485.2	2495.3	2498.7	2492.0	2481.9	2468.4	2458.3	2428.1	2424.7
37.5°	2771.1	2784.5	2764.4	2754.3	2730.7	2734.1	2730.7	2740.8	2744.2	2713.9	2710.6
40°	3070.4	3083.8	3056.9	3030.0	3006.5	2996.4	3013.2	3046.8	3046.8	3026.7	3026.7
42.5°	3389.9	3400.0	3356.2	3322.6	3292.3	3285.6	3295.7	3336.1	3346.2	3342.8	3342.8
45°	3709.4	3702.6	3645.5	3611.8	3584.9	3568.1	3571.5	3601.7	3621.9	3632.0	3632.0
47.5°	3954.9	3944.8	3897.7	3870.8	3854.0	3830.4	3830.4	3847.2	3857.3	3860.7	3860.7
50°	4149.9	4139.8	4092.7	4089.4	4089.4	4079.3	4069.2	4065.8	4059.1	4062.5	4062.5
52.5°	4318.1	4304.6	4271.0	4277.7	4308.0	4314.7	4301.2	4274.3	4247.4	4237.3	4240.7
55°	4499.7	4479.5	4452.6	4472.7	4533.3	4560.2	4540.0	4486.2	4439.1	4408.9	4408.9
57.5°	4644.3	4620.7	4620.7	4677.9	4788.9	4842.7	4799.0	4698.1	4617.4	4583.7	4587.1
60°	4543.4	4523.2	4603.9	4856.1	5064.6	5155.4	5081.4	4903.2	4772.1	4731.7	4738.4
62.5°	4345.0	4331.5	4432.4	4822.5	5313.5	5501.8	5390.8	5135.3	4940.2	4893.1	4893.1
65°	4052.4	4049.0	4190.3	4671.2	5370.7	5834.8	5740.6	5387.5	5135.3	5071.4	5084.8
67.5°	3749.7	3749.7	3877.5	4412.2	5303.4	5976.0	6050.0	5616.2	5229.4	5071.4	5074.7
70°	3215.0	3272.2	3611.8	4173.4	5057.9	5875.1	6177.8	5454.7	4819.1	4540.0	4529.9
72.5°	2118.7	2192.7	2868.6	3756.4	4815.8	5508.5	5575.8	4792.2	4001.9	3675.7	3658.9
75°	1277.9	1341.8	1859.7	2932.5	4234.0	4435.8	4139.8	3756.4	2989.7	2734.1	2734.1
77.5°	376.7	420.4	857.6	1859.7	2929.1	2915.7	2552.5	2212.8	1768.9	1503.2	1523.4
80°	222.0	228.7	279.1	847.5	1214.0	1277.9	985.3	615.4	615.4	457.4	443.9
82.5°	171.5	171.5	178.2	211.9	292.6	326.2	248.9	211.9	242.1	205.1	195.1
85°	121.1	121.1	121.1	124.4	127.8	131.2	137.9	141.2	154.7	127.8	121.1
87.5°	37.0	40.4	43.7	50.4	60.5	63.9	67.3	60.5	60.5	57.2	53.8
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)