

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: P842530

Luminaire Tested: **ARCH4-60-730-U-5WQ**

Issue Date: 5/27/2024

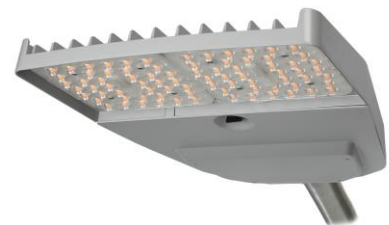
Test Information

Test Method: LM-79-08
Report Number: P842530
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: ARCH4-60-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10884 lumens
Efficiency: N/A
Efficacy: 172.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G2

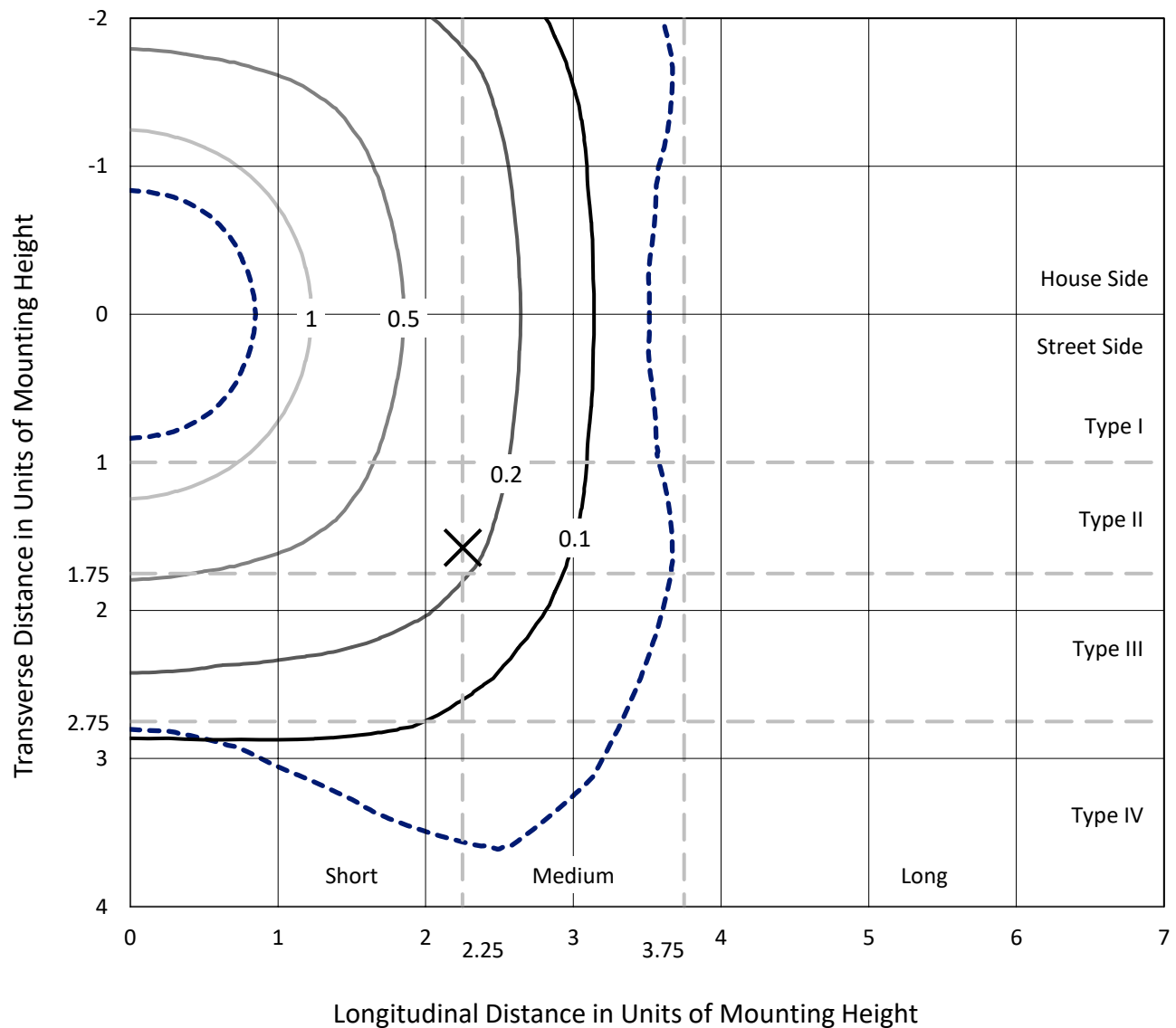
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P842530
 CATALOG NUMBER: ARCH4-60-730-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

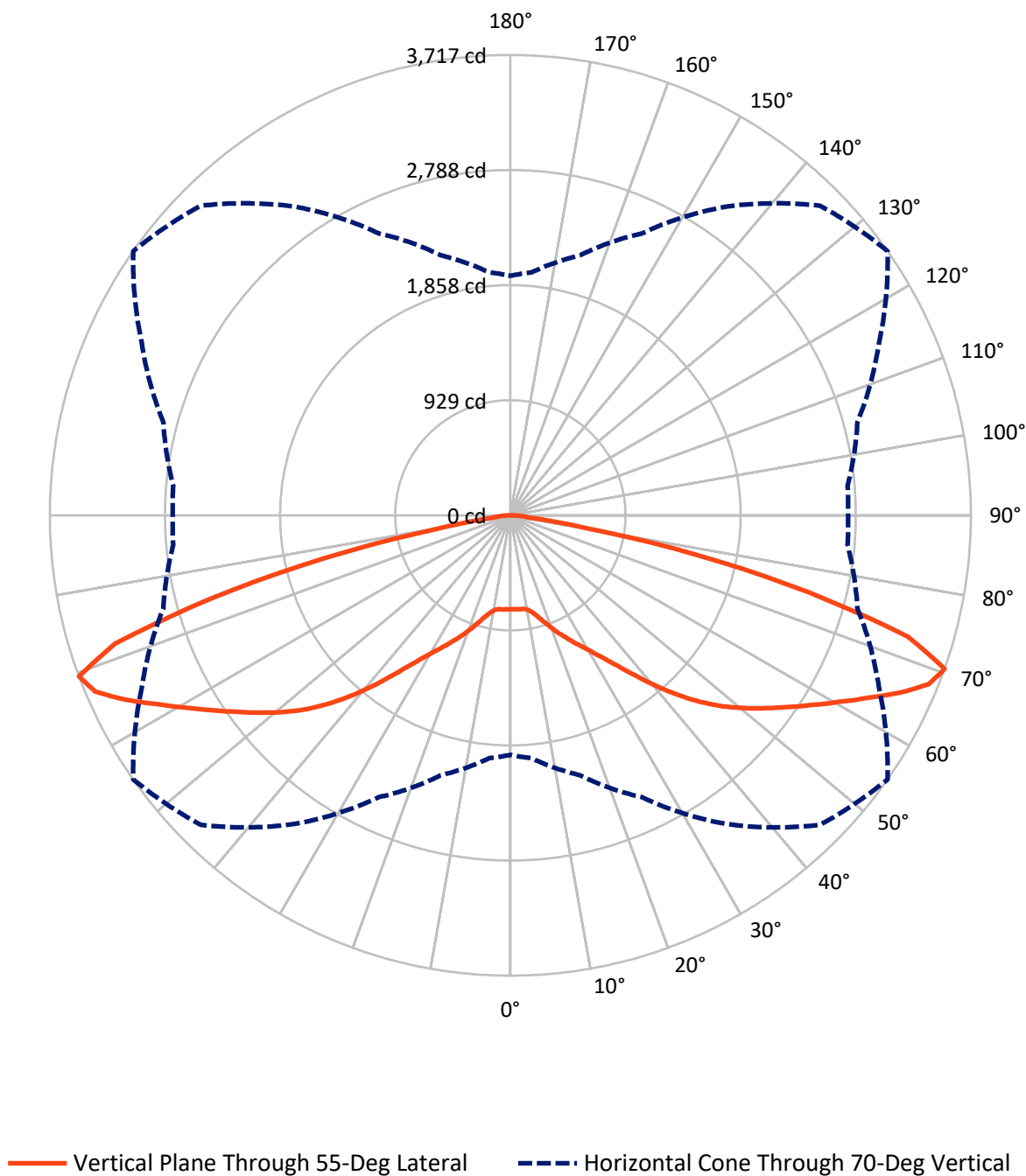
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type V - Medium - N/A

REPORT NUMBER: P842530
CATALOG NUMBER: ARCH4-60-730-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P842530

CATALOG NUMBER: ARCH4-60-730-U-5WQ

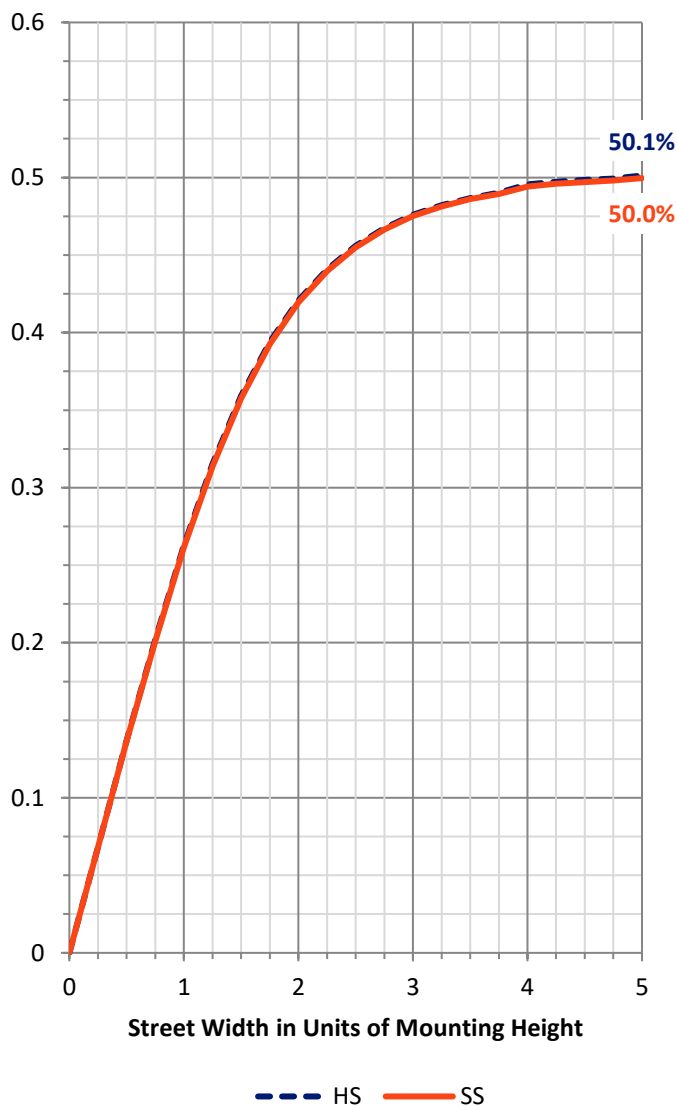
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5442.0	0.0	5442.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5442.0	0.0	5442.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10884.0	0.0	10884.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	0.7
10°-20°	249.3	2.3
20°-30°	518.0	4.8
30°-40°	956.7	8.8
40°-50°	1680.7	15.4
50°-60°	2424.0	22.3
60°-70°	2966.7	27.3
70°-80°	1887.8	17.3
80°-90°	127.7	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°	10884.0	100.0
0°-180°	10884.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842530

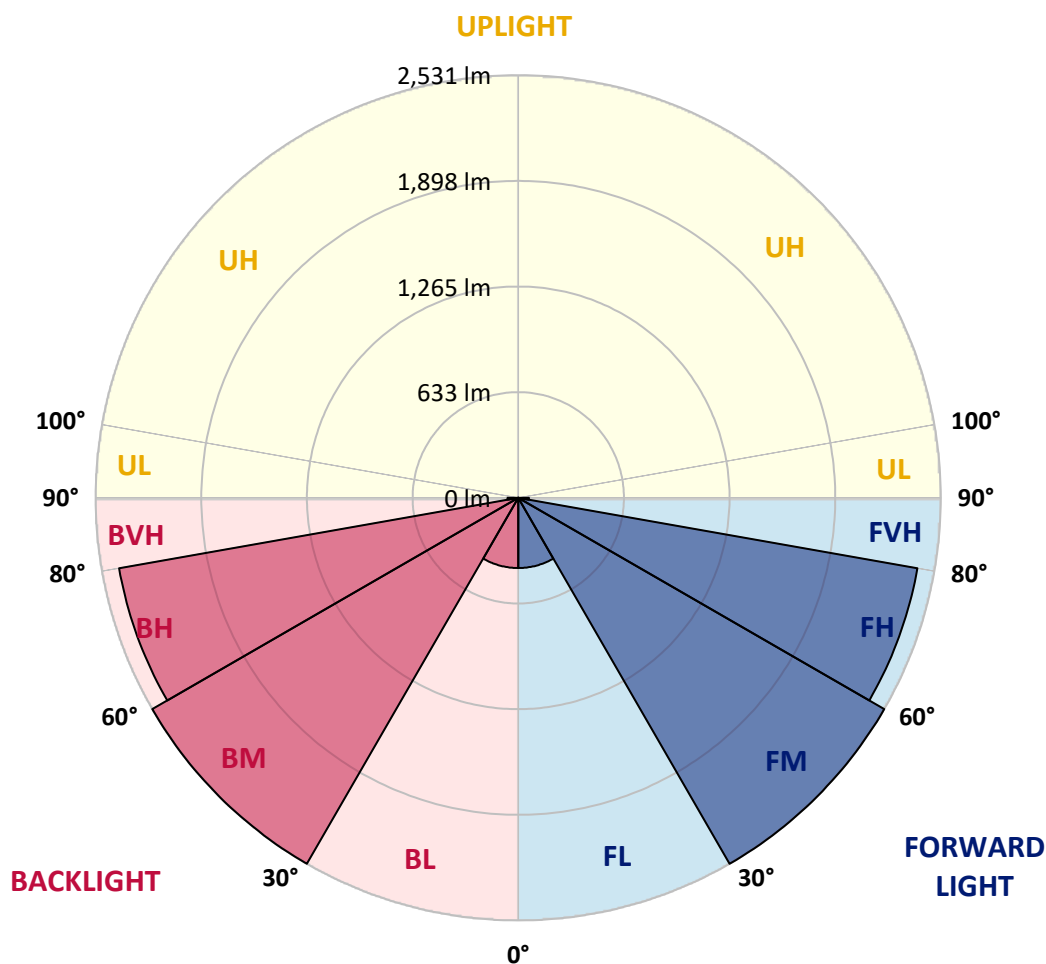
CATALOG NUMBER: ARCH4-60-730-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	420.3	3.9			
FM	(30°-60°)	2530.7	23.3			
FH	(60°-80°)	2427.2	22.3			G2/5000
FVH	(80°-90°)	63.9	0.6			G1/100
BL	(0°-30°)	420.3	3.9	B1/500		
BM	(30°-60°)	2530.7	23.3	B3/5000		
BH	(60°-80°)	2427.2	22.3	B3/2500		G2/5000
BVH	(80°-90°)	63.9	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Medium



REPORT NUMBER: P842530

CATALOG NUMBER: ARCH4-60-730-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	758.7	758.7	758.7	758.7	758.7	758.7	758.7	758.7	758.7	758.7	758.7
2.5°	768.8	768.8	766.8	766.8	762.8	760.7	758.7	758.7	756.7	756.7	754.7
5°	772.9	772.9	772.9	770.9	768.8	766.8	762.8	758.7	756.7	754.7	752.6
7.5°	774.9	774.9	772.9	772.9	770.9	768.8	762.8	756.7	754.7	752.6	752.6
10°	791.1	789.1	787.0	783.0	783.0	783.0	774.9	768.8	766.8	766.8	766.8
12.5°	829.5	827.5	823.5	817.4	817.4	819.4	807.3	799.2	799.2	797.2	797.2
15°	886.2	884.2	880.1	870.0	868.0	872.0	853.8	845.7	845.7	845.7	843.7
17.5°	948.9	944.9	938.8	930.7	930.7	930.7	912.5	902.4	896.3	896.3	894.3
20°	1001.5	999.5	999.5	997.5	1003.5	1003.5	979.3	963.1	948.9	940.8	938.8
22.5°	1048.0	1046.0	1050.1	1058.2	1070.3	1074.3	1046.0	1021.7	999.5	983.3	979.3
25°	1110.8	1108.7	1106.7	1118.9	1139.1	1145.2	1114.8	1084.5	1062.2	1054.1	1050.1
27.5°	1177.5	1179.6	1181.6	1193.7	1209.9	1220.0	1189.7	1161.3	1143.1	1131.0	1126.9
30°	1252.4	1256.4	1262.5	1280.7	1292.9	1296.9	1270.6	1250.4	1234.2	1224.1	1218.0
32.5°	1347.5	1355.6	1363.7	1379.9	1385.9	1381.9	1369.7	1355.6	1343.4	1329.3	1327.2
35°	1489.1	1497.2	1495.2	1501.2	1503.3	1499.2	1493.2	1485.1	1479.0	1460.8	1458.8
37.5°	1667.2	1675.2	1663.1	1657.0	1642.9	1644.9	1642.9	1648.9	1651.0	1632.8	1630.7
40°	1847.2	1855.3	1839.1	1822.9	1808.8	1802.7	1812.8	1833.1	1833.1	1820.9	1820.9
42.5°	2039.4	2045.5	2019.2	1999.0	1980.8	1976.7	1982.8	2007.1	2013.1	2011.1	2011.1
45°	2231.6	2227.6	2193.2	2173.0	2156.8	2146.7	2148.7	2166.9	2179.0	2185.1	2185.1
47.5°	2379.3	2373.3	2344.9	2328.8	2318.6	2304.5	2304.5	2314.6	2320.7	2322.7	2322.7
50°	2496.7	2490.6	2462.3	2460.3	2460.3	2454.2	2448.1	2446.1	2442.1	2444.1	2444.1
52.5°	2597.8	2589.8	2569.5	2573.6	2591.8	2595.8	2587.7	2571.5	2555.4	2549.3	2551.3
55°	2707.1	2695.0	2678.8	2690.9	2727.3	2743.5	2731.4	2699.0	2670.7	2652.5	2652.5
57.5°	2794.1	2779.9	2779.9	2814.3	2881.1	2913.5	2887.2	2826.5	2777.9	2757.7	2759.7
60°	2733.4	2721.3	2769.8	2921.6	3047.0	3101.6	3057.1	2949.9	2871.0	2846.7	2850.8
62.5°	2614.0	2605.9	2666.6	2901.3	3196.7	3310.0	3243.3	3089.5	2972.1	2943.8	2943.8
65°	2438.0	2436.0	2521.0	2810.3	3231.1	3510.3	3453.7	3241.2	3089.5	3051.1	3059.1
67.5°	2255.9	2255.9	2332.8	2654.5	3190.7	3595.3	3639.8	3378.8	3146.1	3051.1	3053.1
70°	1934.2	1968.6	2173.0	2510.8	3043.0	3534.6	3716.7	3281.7	2899.3	2731.4	2725.3
72.5°	1274.6	1319.2	1725.8	2260.0	2897.3	3314.1	3354.5	2883.1	2407.7	2211.4	2201.3
75°	768.8	807.3	1118.9	1764.3	2547.3	2668.7	2490.6	2260.0	1798.7	1644.9	1644.9
77.5°	226.6	252.9	515.9	1118.9	1762.2	1754.2	1535.6	1331.3	1064.2	904.4	916.5
80°	133.5	137.6	167.9	509.9	730.4	768.8	592.8	370.3	370.3	275.2	267.1
82.5°	103.2	103.2	107.2	127.5	176.0	196.3	149.7	127.5	145.7	123.4	117.3
85°	72.8	72.8	72.8	74.9	76.9	78.9	83.0	85.0	93.1	76.9	72.8
87.5°	22.3	24.3	26.3	30.3	36.4	38.4	40.5	36.4	36.4	34.4	32.4
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)