

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: P572868

Luminaire Tested: **ARCH-S-PA2-120-830-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-120-830-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12816 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

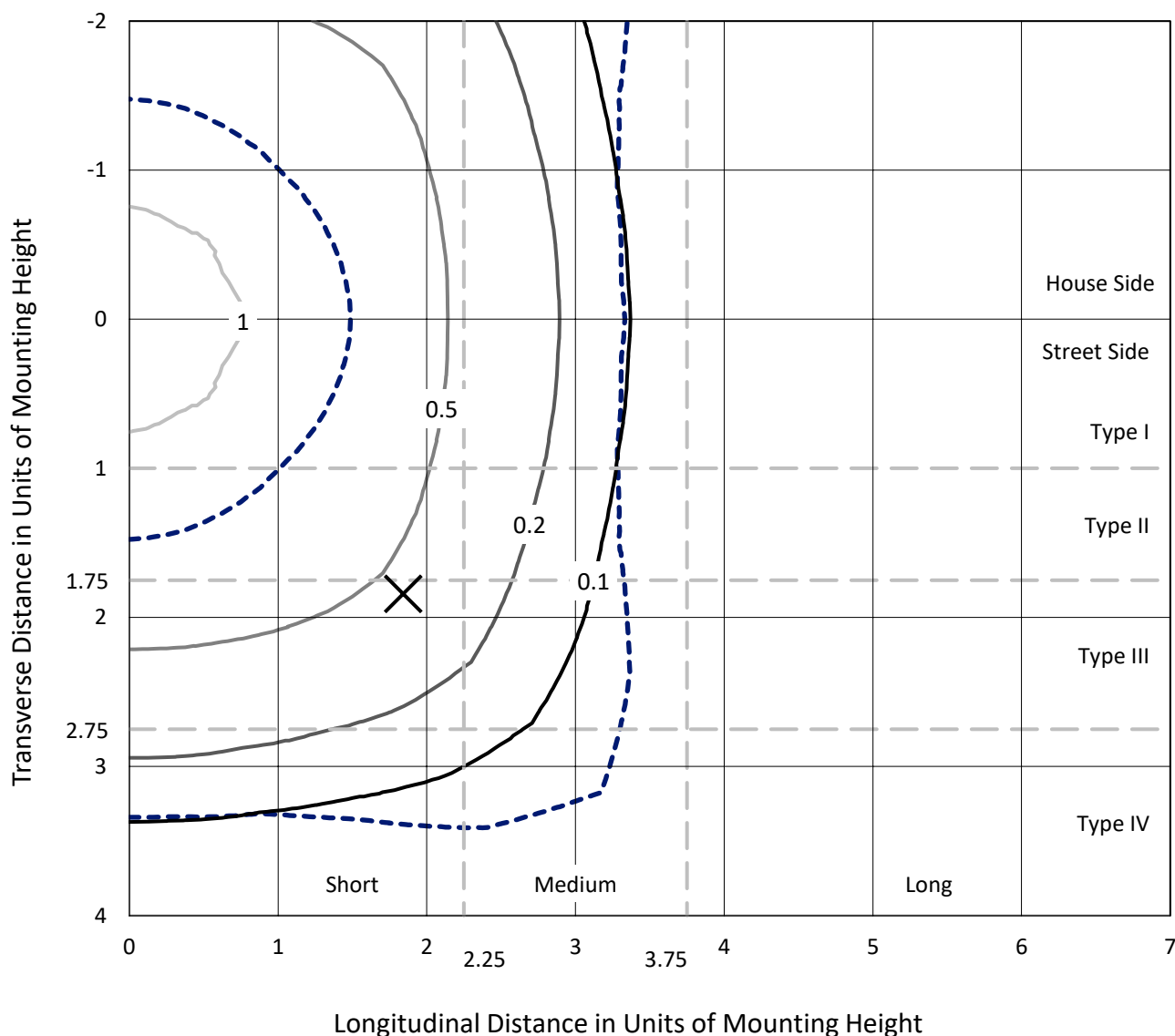
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

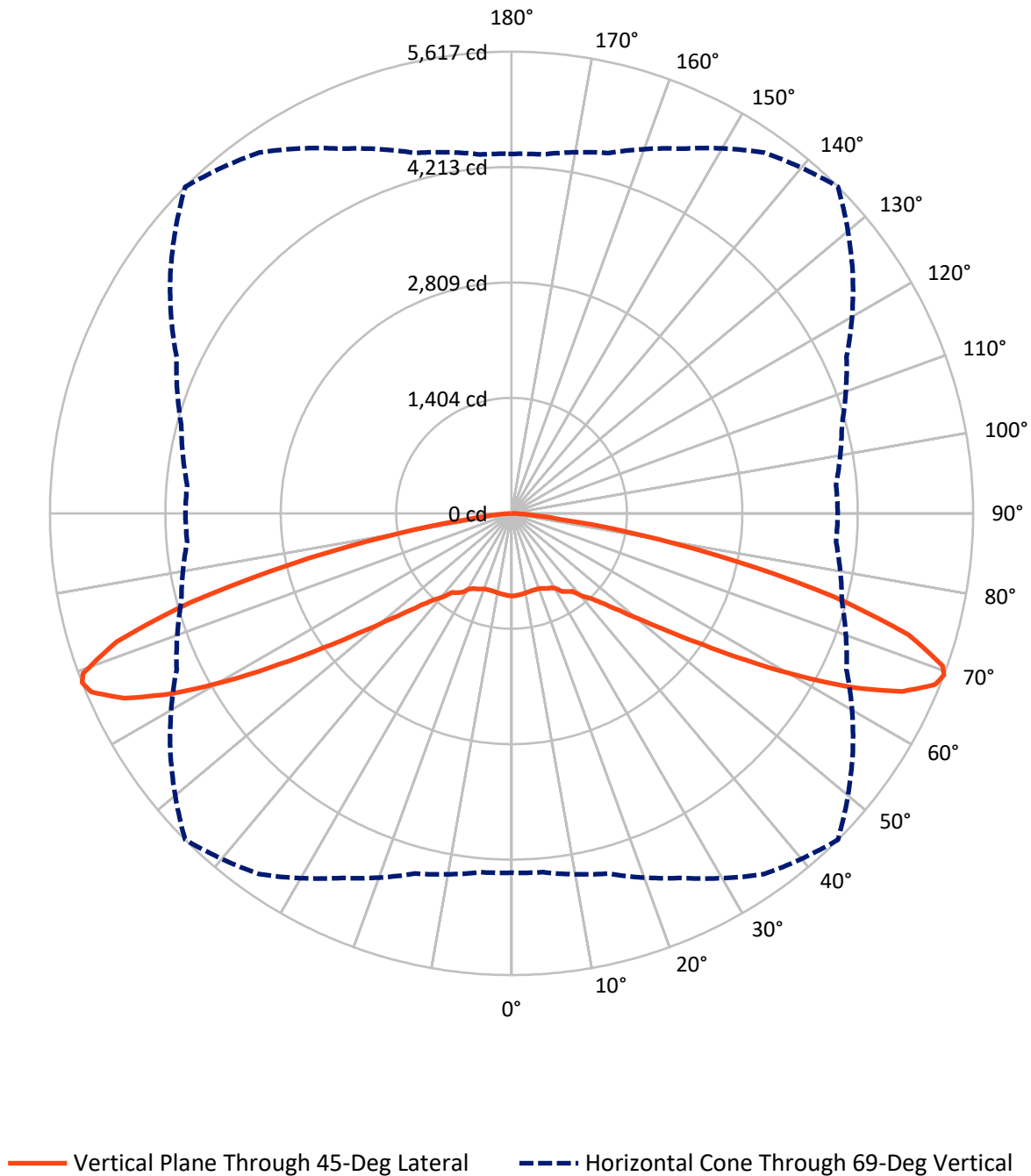
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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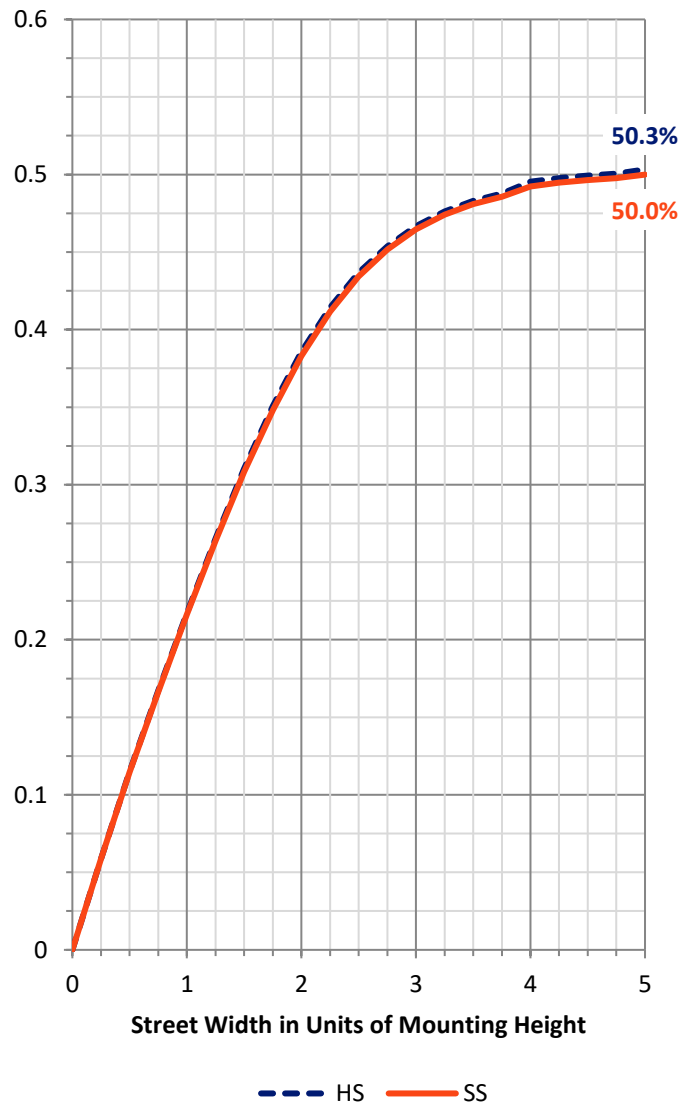
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6408.0	0.0	6408.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6408.0	0.0	6408.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12816.0	0.0	12816.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	0.7
10°-20°	278.6	2.2
20°-30°	472.4	3.7
30°-40°	734.4	5.7
40°-50°	1260.8	9.8
50°-60°	2508.5	19.6
60°-70°	4468.5	34.9
70°-80°	2814.2	22.0
80°-90°	183.8	1.4
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°	12816.0	100.0
0°-180°	12816.0	100.0

Coefficient of Utilization



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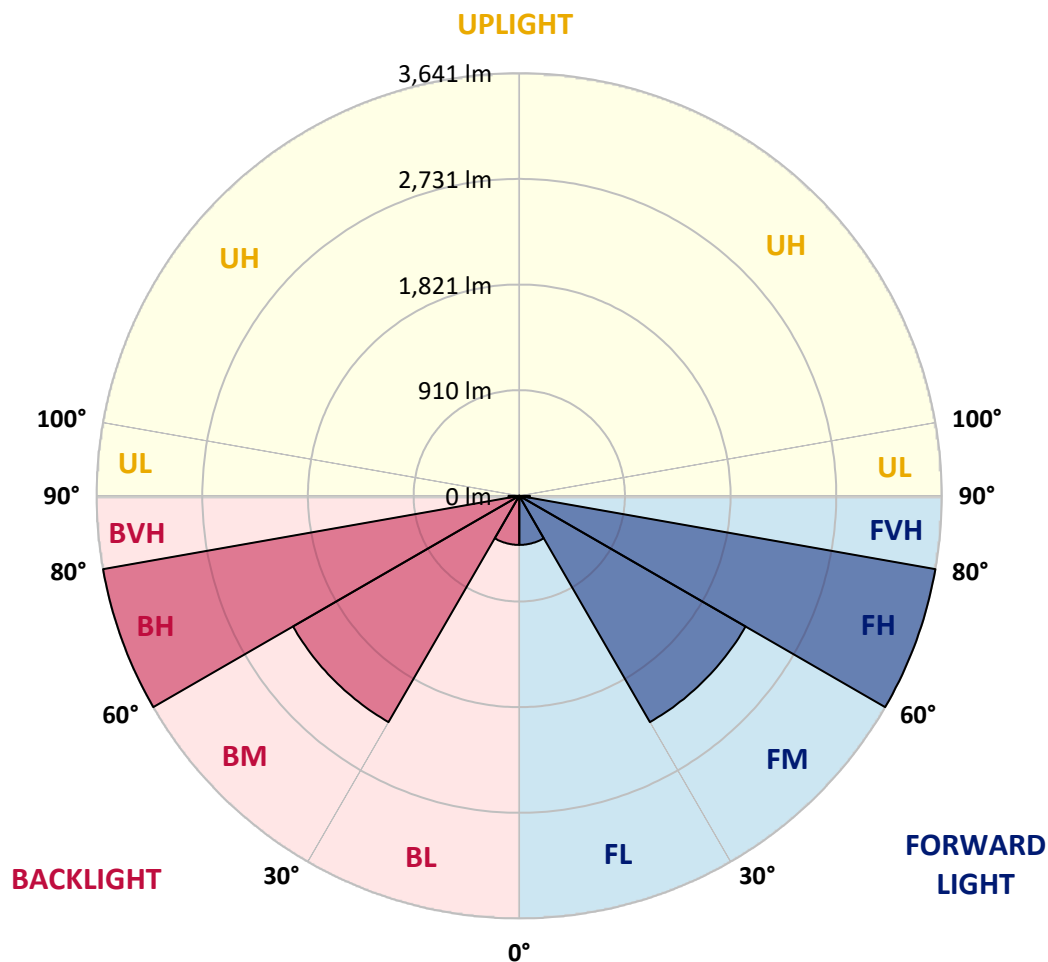
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	422.9	3.3			
FM	(30°-60°)	2251.9	17.6			
FH	(60°-80°)	3641.4	28.4			G2/5000
FVH	(80°-90°)	91.9	0.7			G1/100
BL	(0°-30°)	422.9	3.3	B1/500		
BM	(30°-60°)	2251.9	17.6	B2/2500		
BH	(60°-80°)	3641.4	28.4	B4/5000		G2/5000
BVH	(80°-90°)	91.9	0.7			G1/100
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7
2.5°	1012.4	1009.1	1009.1	1005.7	1002.3	1002.3	1002.3	999.0	1002.3	1002.3	1002.3
5°	1009.1	1005.7	1002.3	999.0	999.0	995.6	999.0	995.6	995.6	995.6	995.6
7.5°	999.0	999.0	992.2	992.2	988.9	988.9	985.5	985.5	985.5	982.1	982.1
10°	999.0	995.6	992.2	985.5	982.1	982.1	982.1	978.8	982.1	982.1	982.1
12.5°	999.0	999.0	988.9	982.1	975.4	975.4	975.4	975.4	982.1	985.5	985.5
15°	1005.7	1002.3	992.2	978.8	972.1	972.1	972.1	975.4	982.1	988.9	988.9
17.5°	1009.1	1002.3	988.9	975.4	972.1	972.1	972.1	975.4	985.5	992.2	995.6
20°	1012.4	1009.1	992.2	978.8	975.4	975.4	975.4	975.4	985.5	995.6	999.0
22.5°	1022.5	1019.1	1002.3	992.2	988.9	992.2	988.9	988.9	999.0	1012.4	1012.4
25°	1036.0	1029.2	1012.4	1005.7	1005.7	1012.4	1012.4	1005.7	1015.8	1025.9	1029.2
27.5°	1059.5	1052.8	1036.0	1029.2	1025.9	1025.9	1025.9	1025.9	1032.6	1049.4	1049.4
30°	1079.7	1076.3	1069.6	1069.6	1066.2	1059.5	1059.5	1066.2	1069.6	1076.3	1079.7
32.5°	1106.6	1099.9	1093.1	1093.1	1113.3	1133.5	1116.7	1089.8	1086.4	1089.8	1093.1
35°	1163.8	1157.0	1140.2	1130.1	1150.3	1170.5	1143.6	1126.8	1136.9	1147.0	1147.0
37.5°	1244.5	1241.1	1227.7	1207.5	1200.8	1204.1	1194.0	1207.5	1234.4	1254.6	1258.0
40°	1328.6	1325.2	1311.8	1301.7	1305.0	1321.9	1315.1	1301.7	1318.5	1332.0	1332.0
42.5°	1459.8	1446.3	1426.1	1399.2	1402.6	1416.0	1399.2	1412.7	1436.2	1459.8	1463.1
45°	1634.7	1621.2	1594.3	1570.8	1553.9	1560.7	1560.7	1584.2	1611.1	1638.0	1648.1
47.5°	1823.0	1819.7	1792.8	1772.6	1755.8	1765.8	1765.8	1765.8	1809.6	1836.5	1836.5
50°	2055.1	2045.0	2045.0	2028.2	2021.5	2024.8	2011.4	2024.8	2045.0	2051.7	2041.7
52.5°	2330.9	2320.8	2327.6	2334.3	2351.1	2374.6	2341.0	2337.6	2327.6	2317.5	2314.1
55°	2660.5	2670.6	2697.5	2741.3	2768.2	2815.3	2764.8	2704.3	2677.4	2650.5	2630.3
57.5°	3054.1	3070.9	3111.3	3215.5	3329.9	3373.6	3286.2	3175.2	3081.0	3003.6	3020.4
60°	3568.7	3558.6	3625.9	3767.1	3928.6	4016.0	3878.1	3696.5	3545.1	3508.1	3518.2
62.5°	4116.9	4137.1	4184.2	4372.6	4574.4	4668.6	4500.4	4231.3	4036.2	3935.3	3935.3
65°	4460.0	4473.5	4604.7	4870.4	5095.7	5223.5	4984.7	4594.6	4315.4	4147.2	4137.1
67.5°	4510.5	4523.9	4671.9	5011.6	5381.6	5559.9	5146.2	4638.3	4312.0	4106.9	4100.1
69°	4372.6	4382.7	4537.4	4893.9	5358.1	5617.1	5068.8	4497.0	4160.7	3962.2	3968.9
70°	4174.1	4214.5	4332.2	4695.5	5233.6	5566.6	4927.6	4338.9	3989.1	3831.0	3804.1
72.5°	3272.7	3299.6	3494.7	3945.4	4671.9	5052.0	4328.8	3673.0	3316.4	3151.6	3192.0
75°	1853.3	1846.6	2095.5	2741.3	3602.3	4046.3	3407.2	2643.7	2125.7	1927.3	1954.2
77.5°	706.3	736.6	904.8	1405.9	2263.6	2764.8	2260.3	1412.7	988.9	770.2	733.2
80°	228.7	242.2	319.5	511.3	965.3	1560.7	1056.1	544.9	343.1	259.0	242.2
82.5°	90.8	100.9	121.1	171.5	326.3	588.6	356.5	198.4	148.0	121.1	111.0
85°	50.5	47.1	63.9	77.4	111.0	168.2	121.1	94.2	80.7	57.2	53.8
87.5°	16.8	16.8	26.9	26.9	30.3	26.9	30.3	33.6	33.6	20.2	16.8
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)