

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: P230976

Luminaire Tested: **ARCH-M-AF48-90-D-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-M-AF48-90-D-U-5WQ-7050
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 600mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12629 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 92
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: 28.75 FT

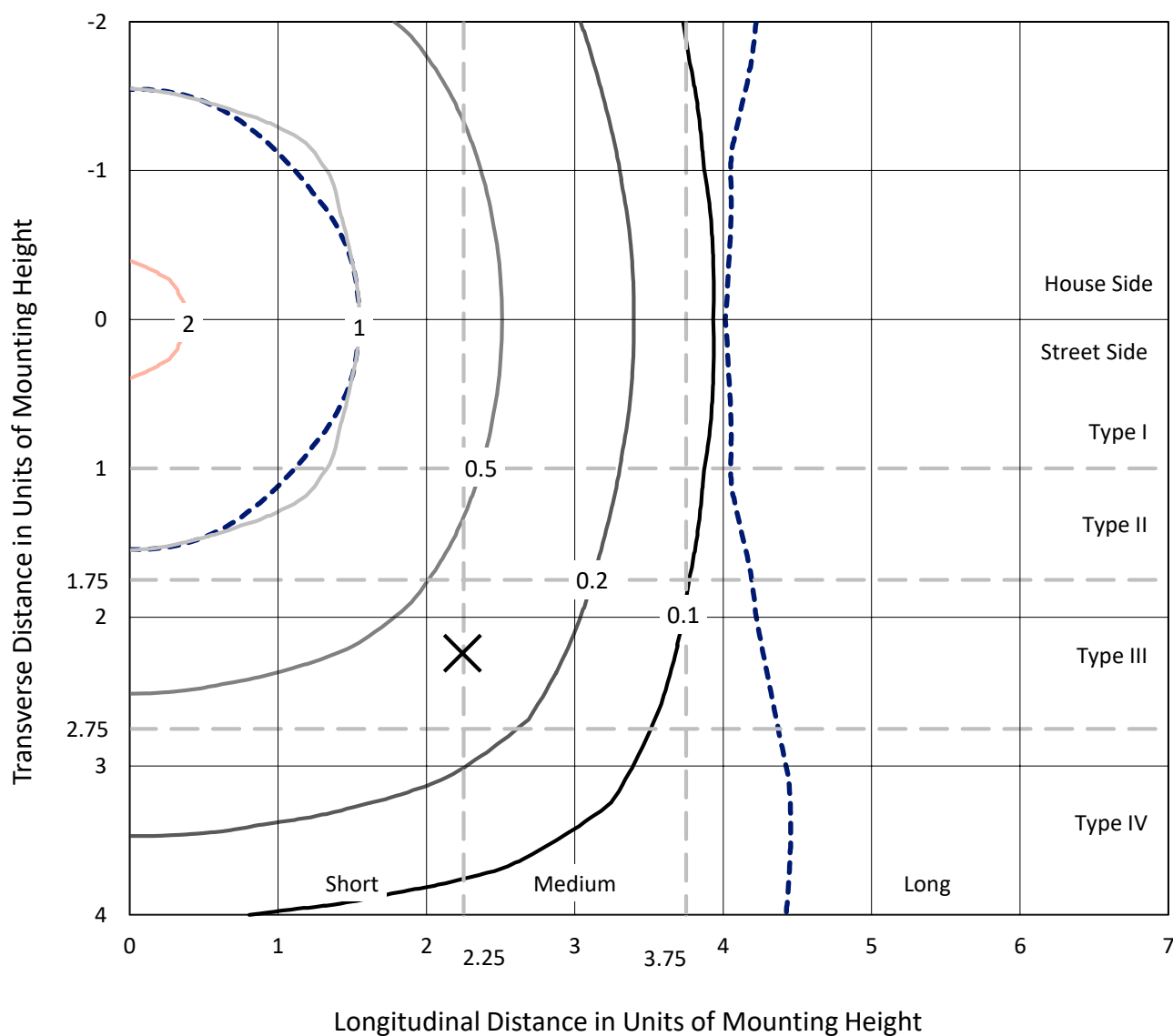


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

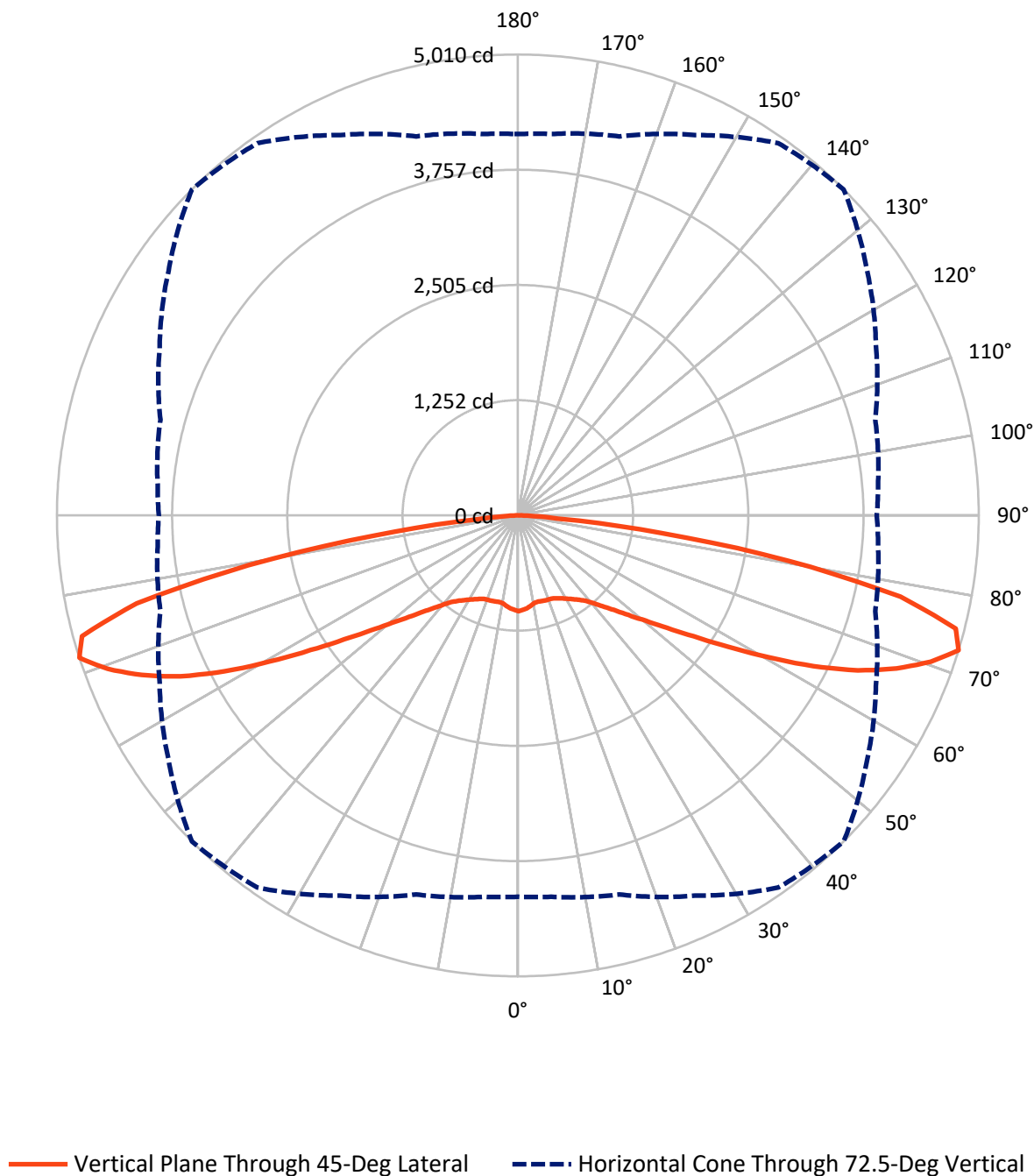


Based on 20 foot mounting height. Maximum calculated value = 2.6 fc
Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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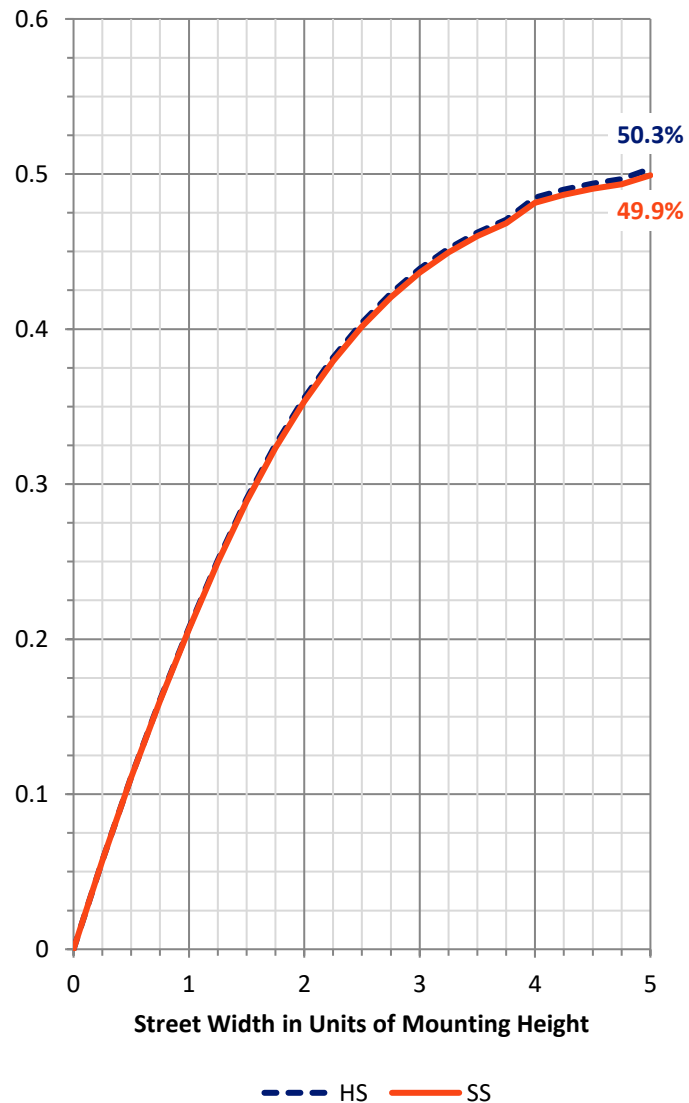
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6314.5	0.0	6314.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6314.5	0.0	6314.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12629.0	0.0	12629.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	0.8
10°-20°	276.3	2.2
20°-30°	462.5	3.7
30°-40°	710.6	5.6
40°-50°	1176.5	9.3
50°-60°	2091.6	16.6
60°-70°	3659.2	29.0
70°-80°	3723.0	29.5
80°-90°	433.5	3.4
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°	12629.0	100.0
0°-180°	12629.0	100.0

Coefficient of Utilization



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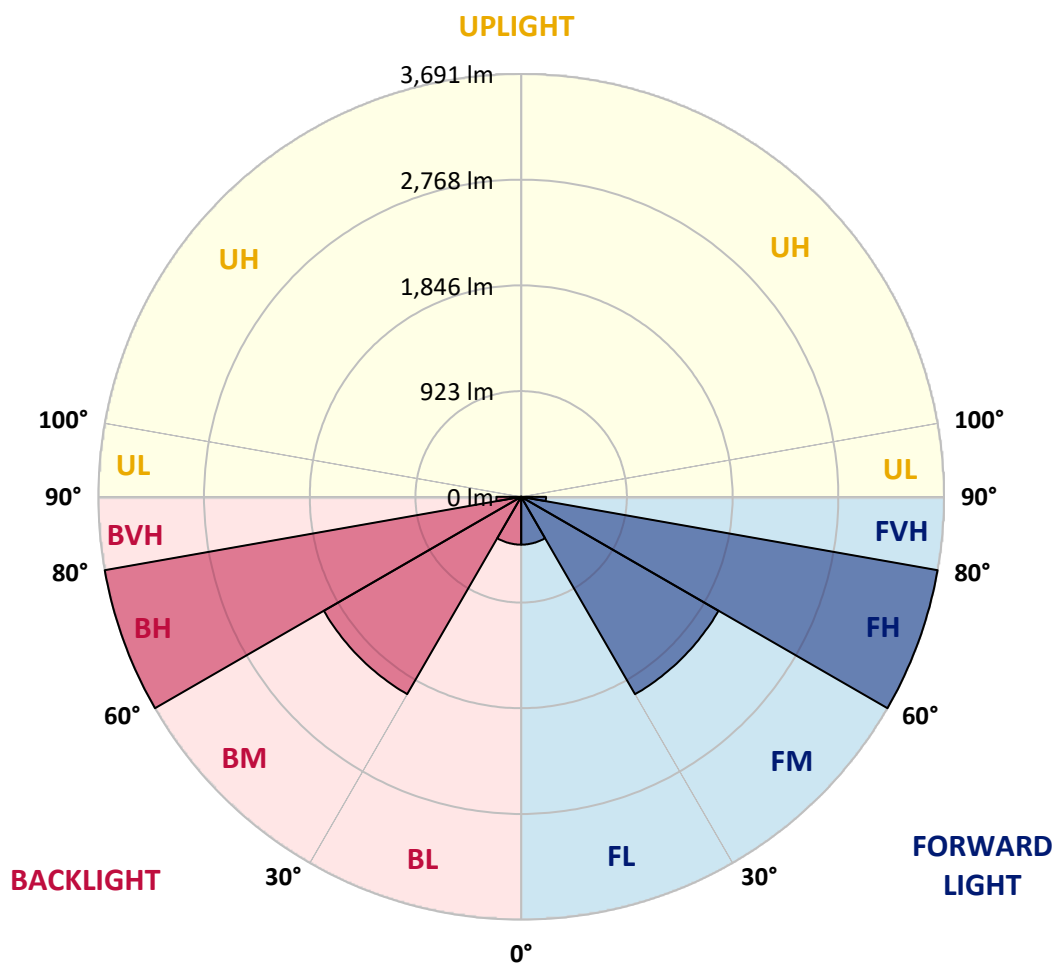
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	417.3	3.3			
FM	(30°-60°)	1989.3	15.8			
FH	(60°-80°)	3691.1	29.2			G2/5000
FVH	(80°-90°)	216.8	1.7			G2/225
BL	(0°-30°)	417.3	3.3	B1/500		
BM	(30°-60°)	1989.3	15.8	B2/2500		
BH	(60°-80°)	3691.1	29.2	B4/5000		G2/5000
BVH	(80°-90°)	216.8	1.7			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1040.9	1040.9	1040.9	1040.9	1040.9	1040.9	1040.9	1040.9	1040.9	1040.9	1040.9
2.5°	1031.3	1033.7	1028.9	1028.9	1028.9	1026.5	1028.9	1026.5	1028.9	1031.3	1031.3
5°	1021.7	1021.7	1016.9	1016.9	1016.9	1014.5	1016.9	1016.9	1019.3	1021.7	1021.7
7.5°	1000.1	1000.1	997.7	995.2	992.8	992.8	995.2	995.2	997.7	1000.1	1000.1
10°	988.0	985.6	980.8	973.6	971.2	968.8	973.6	978.4	985.6	992.8	990.4
12.5°	983.2	980.8	971.2	964.0	959.2	961.6	966.4	971.2	983.2	990.4	988.0
15°	988.0	983.2	971.2	959.2	961.6	966.4	971.2	971.2	985.6	992.8	992.8
17.5°	988.0	985.6	971.2	961.6	964.0	971.2	973.6	971.2	983.2	995.2	995.2
20°	990.4	990.4	971.2	964.0	966.4	973.6	976.0	973.6	983.2	997.7	997.7
22.5°	995.2	992.8	973.6	968.8	973.6	978.4	980.8	978.4	988.0	1000.1	1002.5
25°	1004.9	1000.1	983.2	980.8	990.4	997.7	997.7	992.8	997.7	1009.7	1009.7
27.5°	1016.9	1014.5	995.2	995.2	1007.3	1021.7	1014.5	1004.9	1009.7	1021.7	1021.7
30°	1038.5	1036.1	1016.9	1016.9	1033.7	1050.5	1033.7	1021.7	1028.9	1040.9	1043.3
32.5°	1069.8	1069.8	1052.9	1048.1	1077.0	1084.2	1077.0	1052.9	1057.8	1074.6	1074.6
35°	1122.7	1117.9	1101.0	1098.6	1127.5	1125.1	1122.7	1101.0	1105.8	1125.1	1125.1
37.5°	1192.4	1190.0	1175.5	1168.3	1182.8	1173.1	1177.9	1168.3	1180.4	1194.8	1197.2
40°	1281.3	1278.9	1266.9	1257.3	1262.1	1247.7	1252.5	1257.3	1269.3	1278.9	1281.3
42.5°	1391.9	1391.9	1379.9	1363.1	1355.8	1348.6	1348.6	1358.2	1370.3	1382.3	1382.3
45°	1528.9	1528.9	1514.5	1497.7	1476.0	1464.0	1468.8	1478.4	1492.9	1507.3	1512.1
47.5°	1690.0	1690.0	1670.8	1653.9	1632.3	1617.9	1617.9	1622.7	1644.3	1656.3	1663.6
50°	1870.3	1863.1	1843.9	1827.0	1815.0	1795.8	1798.2	1795.8	1815.0	1831.8	1836.6
52.5°	2057.8	2055.4	2036.2	2031.4	2038.6	2029.0	2029.0	2004.9	2012.1	2021.7	2019.3
55°	2291.0	2283.8	2267.0	2276.6	2305.4	2319.8	2315.0	2276.6	2254.9	2259.7	2257.3
57.5°	2545.8	2538.6	2533.8	2562.6	2627.5	2687.6	2675.6	2586.7	2545.8	2548.2	2550.6
60°	2805.4	2805.4	2819.9	2892.0	3031.4	3130.0	3093.9	2944.9	2872.8	2858.3	2853.5
62.5°	3072.3	3079.5	3110.7	3230.9	3444.9	3608.4	3517.0	3305.5	3197.3	3168.4	3158.8
65°	3382.4	3389.6	3435.3	3584.3	3868.0	4062.7	3906.5	3706.9	3555.5	3495.4	3485.8
67.5°	3831.9	3836.8	3872.8	4017.0	4283.9	4440.1	4279.1	4101.2	3937.7	3868.0	3863.2
70°	4235.8	4240.6	4271.9	4461.8	4707.0	4762.3	4584.4	4358.4	4187.7	4132.4	4122.8
72.5°	4144.5	4161.3	4264.7	4560.3	4937.8	5009.9	4634.9	4295.9	4021.9	3930.5	3901.7
75°	3476.2	3502.6	3666.1	4110.8	4711.8	4916.1	4336.8	3714.1	3305.5	3130.0	3084.3
77.5°	2029.0	2127.5	2408.8	2978.5	3836.8	4252.6	3572.3	2718.9	2031.4	1742.9	1646.7
80°	555.3	608.2	812.5	1370.3	2406.4	2978.5	2279.0	1247.7	673.1	504.8	468.8
82.5°	175.5	233.2	295.7	394.3	944.8	1569.8	846.2	367.8	288.5	238.0	211.6
85°	93.8	101.0	165.9	192.3	283.7	439.9	262.0	192.3	173.1	127.4	120.2
87.5°	48.1	50.5	93.8	93.8	125.0	103.4	113.0	103.4	98.6	62.5	55.3
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)