

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: P836926

Luminaire Tested: **ARCH3-90-750-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-90-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15099 lumens
Efficiency: N/A
Efficacy: 162.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 93.1
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

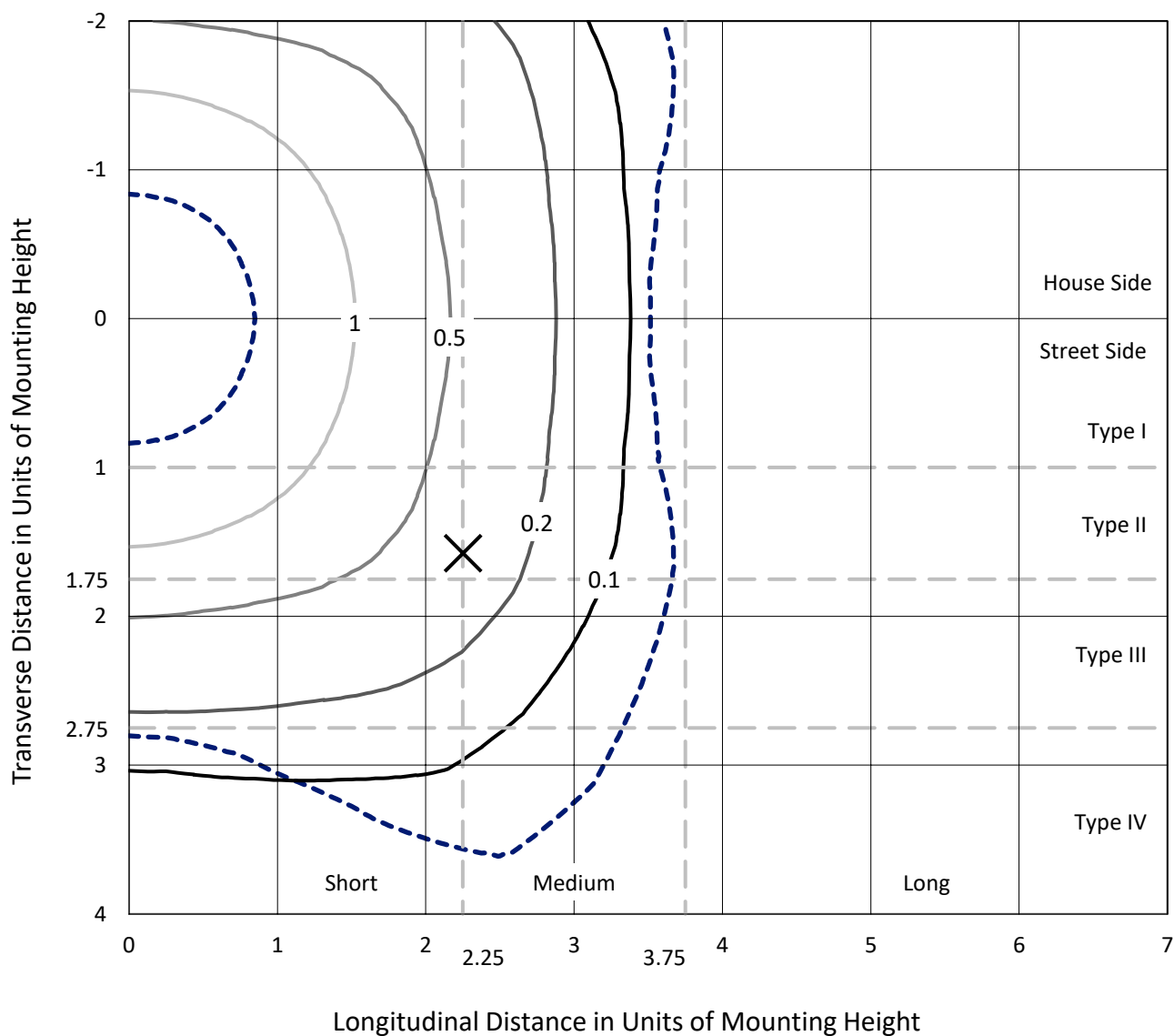


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Iso-Footcandle Lines of Horizontal Illumination

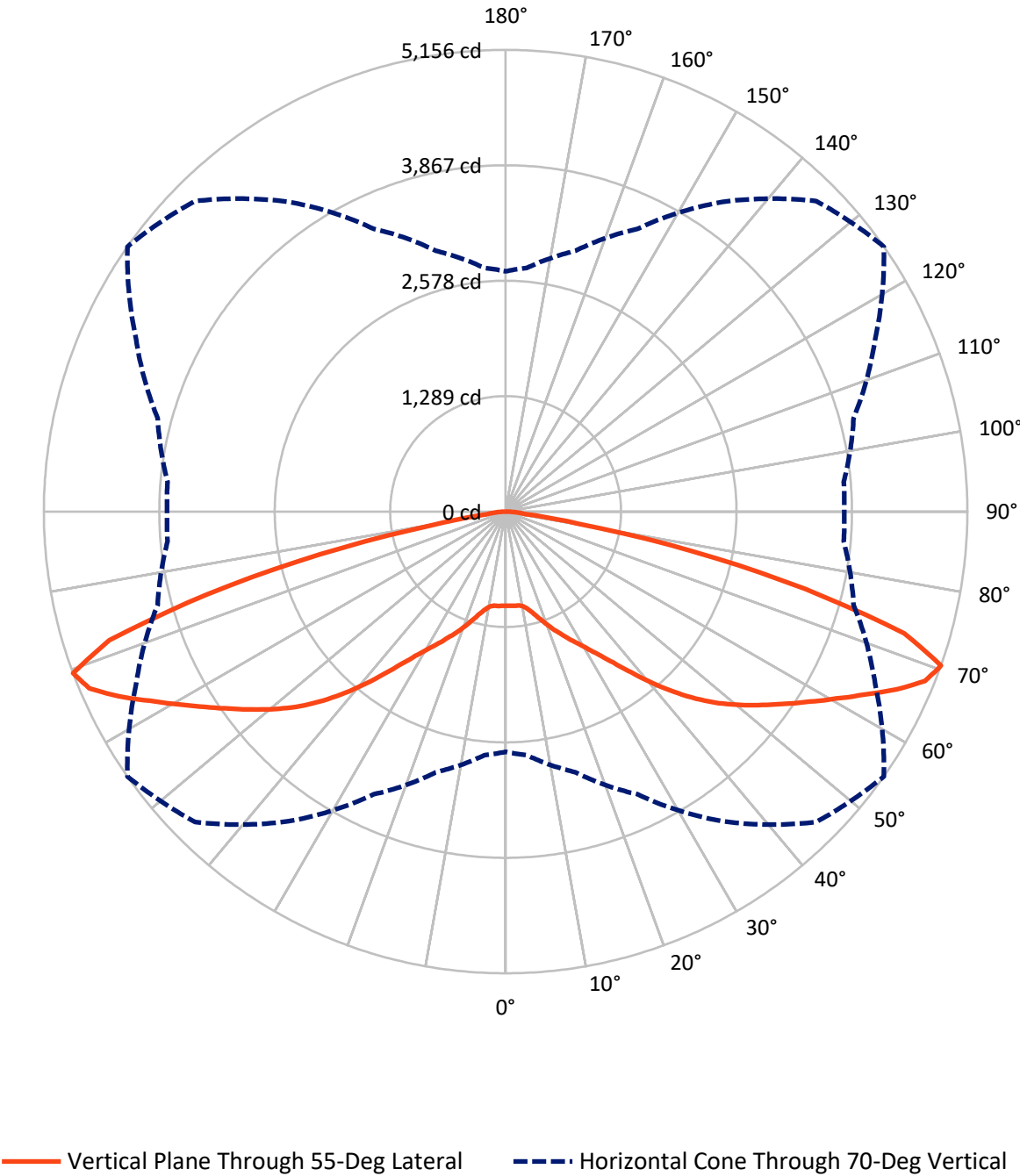
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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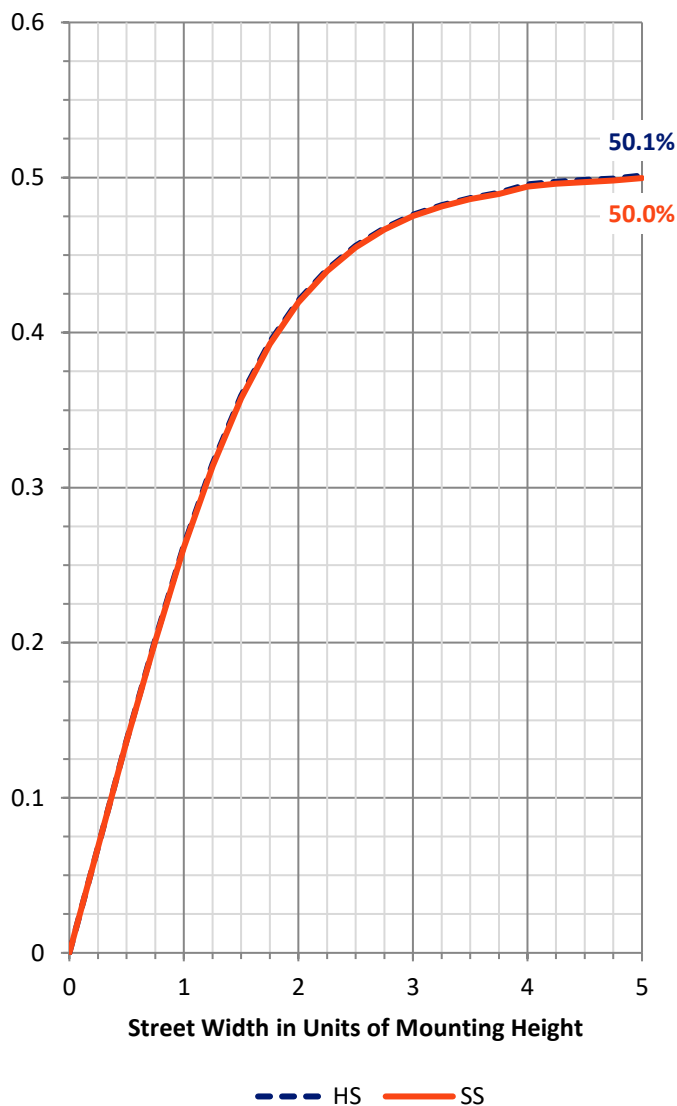
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7549.5	0.0	7549.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7549.5	0.0	7549.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15099.0	0.0	15099.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	0.7
10°-20°	345.8	2.3
20°-30°	718.6	4.8
30°-40°	1327.2	8.8
40°-50°	2331.6	15.4
50°-60°	3362.7	22.3
60°-70°	4115.5	27.3
70°-80°	2618.8	17.3
80°-90°	177.2	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°	15099.0	100.0
0°-180°	15099.0	100.0

Coefficient of Utilization



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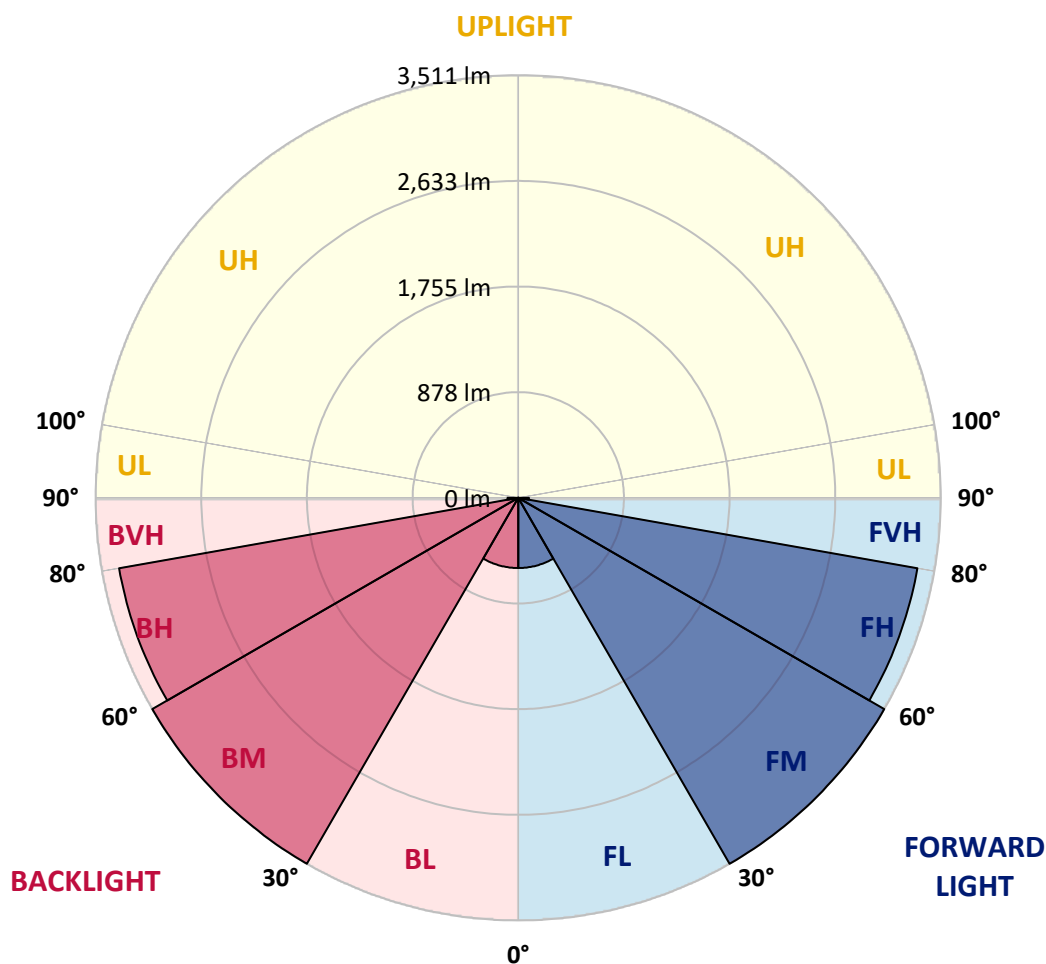
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	583.0	3.9			
FM	(30°-60°)	3510.7	23.3			
FH	(60°-80°)	3367.2	22.3			G2/5000
FVH	(80°-90°)	88.6	0.6			G1/100
BL	(0°-30°)	583.0	3.9	B2/1000		
BM	(30°-60°)	3510.7	23.3	B3/5000		
BH	(60°-80°)	3367.2	22.3	B4/5000		G2/5000
BVH	(80°-90°)	88.6	0.6			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1052.5	1052.5	1052.5	1052.5	1052.5	1052.5	1052.5	1052.5	1052.5	1052.5	1052.5
2.5°	1066.6	1066.6	1063.8	1063.8	1058.2	1055.3	1052.5	1052.5	1049.7	1049.7	1046.9
5°	1072.2	1072.2	1072.2	1069.4	1066.6	1063.8	1058.2	1052.5	1049.7	1046.9	1044.1
7.5°	1075.0	1075.0	1072.2	1072.2	1069.4	1066.6	1058.2	1049.7	1046.9	1044.1	1044.1
10°	1097.5	1094.6	1091.8	1086.2	1086.2	1086.2	1075.0	1066.6	1063.8	1063.8	1063.8
12.5°	1150.8	1148.0	1142.4	1133.9	1133.9	1136.7	1119.9	1108.7	1108.7	1105.9	1105.9
15°	1229.4	1226.6	1220.9	1206.9	1204.1	1209.7	1184.5	1173.2	1173.2	1173.2	1170.4
17.5°	1316.4	1310.8	1302.3	1291.1	1291.1	1291.1	1265.9	1251.8	1243.4	1243.4	1240.6
20°	1389.4	1386.5	1386.5	1383.7	1392.2	1392.2	1358.5	1336.0	1316.4	1305.2	1302.3
22.5°	1453.9	1451.1	1456.7	1467.9	1484.8	1490.4	1451.1	1417.4	1386.5	1364.1	1358.5
25°	1540.9	1538.1	1535.3	1552.1	1580.2	1588.6	1546.5	1504.4	1473.6	1462.3	1456.7
27.5°	1633.5	1636.4	1639.2	1656.0	1678.5	1692.5	1650.4	1611.1	1585.8	1569.0	1563.4
30°	1737.4	1743.0	1751.4	1776.7	1793.5	1799.1	1762.7	1734.6	1712.1	1698.1	1689.7
32.5°	1869.3	1880.5	1891.8	1914.2	1922.6	1917.0	1900.2	1880.5	1863.7	1844.1	1841.2
35°	2065.8	2077.0	2074.2	2082.6	2085.4	2079.8	2071.4	2060.2	2051.8	2026.5	2023.7
37.5°	2312.8	2324.0	2307.2	2298.8	2279.1	2281.9	2279.1	2287.5	2290.3	2265.1	2262.3
40°	2562.6	2573.8	2551.4	2528.9	2509.3	2500.8	2514.9	2542.9	2542.9	2526.1	2526.1
42.5°	2829.2	2837.7	2801.2	2773.1	2747.8	2742.2	2750.6	2784.3	2792.7	2789.9	2789.9
45°	3095.9	3090.3	3042.6	3014.5	2992.0	2978.0	2980.8	3006.1	3022.9	3031.3	3031.3
47.5°	3300.8	3292.4	3253.1	3230.6	3216.6	3196.9	3196.9	3211.0	3219.4	3222.2	3222.2
50°	3463.6	3455.1	3415.9	3413.0	3413.0	3404.6	3396.2	3393.4	3387.8	3390.6	3390.6
52.5°	3603.9	3592.7	3564.6	3570.2	3595.5	3601.1	3589.9	3567.4	3545.0	3536.5	3539.4
55°	3755.5	3738.6	3716.2	3733.0	3783.5	3806.0	3789.2	3744.2	3705.0	3679.7	3679.7
57.5°	3876.2	3856.5	3856.5	3904.2	3996.9	4041.8	4005.3	3921.1	3853.7	3825.6	3828.4
60°	3792.0	3775.1	3842.5	4053.0	4227.0	4302.8	4241.0	4092.3	3982.8	3949.1	3954.8
62.5°	3626.4	3615.1	3699.3	4024.9	4434.7	4591.9	4499.3	4286.0	4123.2	4083.9	4083.9
65°	3382.2	3379.4	3497.2	3898.6	4482.4	4869.8	4791.2	4496.5	4286.0	4232.6	4243.9
67.5°	3129.6	3129.6	3236.2	3682.5	4426.3	4987.6	5049.4	4687.3	4364.5	4232.6	4235.4
70°	2683.3	2731.0	3014.5	3483.2	4221.4	4903.4	5156.1	4552.6	4022.1	3789.2	3780.7
72.5°	1768.3	1830.0	2394.2	3135.2	4019.3	4597.5	4653.6	3999.7	3340.1	3067.8	3053.8
75°	1066.6	1119.9	1552.1	2447.5	3533.7	3702.1	3455.1	3135.2	2495.2	2281.9	2281.9
77.5°	314.4	350.8	715.7	1552.1	2444.7	2433.5	2130.3	1846.9	1476.4	1254.6	1271.5
80°	185.2	190.9	233.0	707.3	1013.2	1066.6	822.4	513.6	513.6	381.7	370.5
82.5°	143.1	143.1	148.8	176.8	244.2	272.3	207.7	176.8	202.1	171.2	162.8
85°	101.0	101.0	101.0	103.9	106.7	109.5	115.1	117.9	129.1	106.7	101.0
87.5°	30.9	33.7	36.5	42.1	50.5	53.3	56.1	50.5	50.5	47.7	44.9
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)