

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: P836269

Luminaire Tested: **ARCH3-160-740-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836269
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: ARCH3-160-740-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23025 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B5 - U0 - G3

Input Watts (W): 161
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

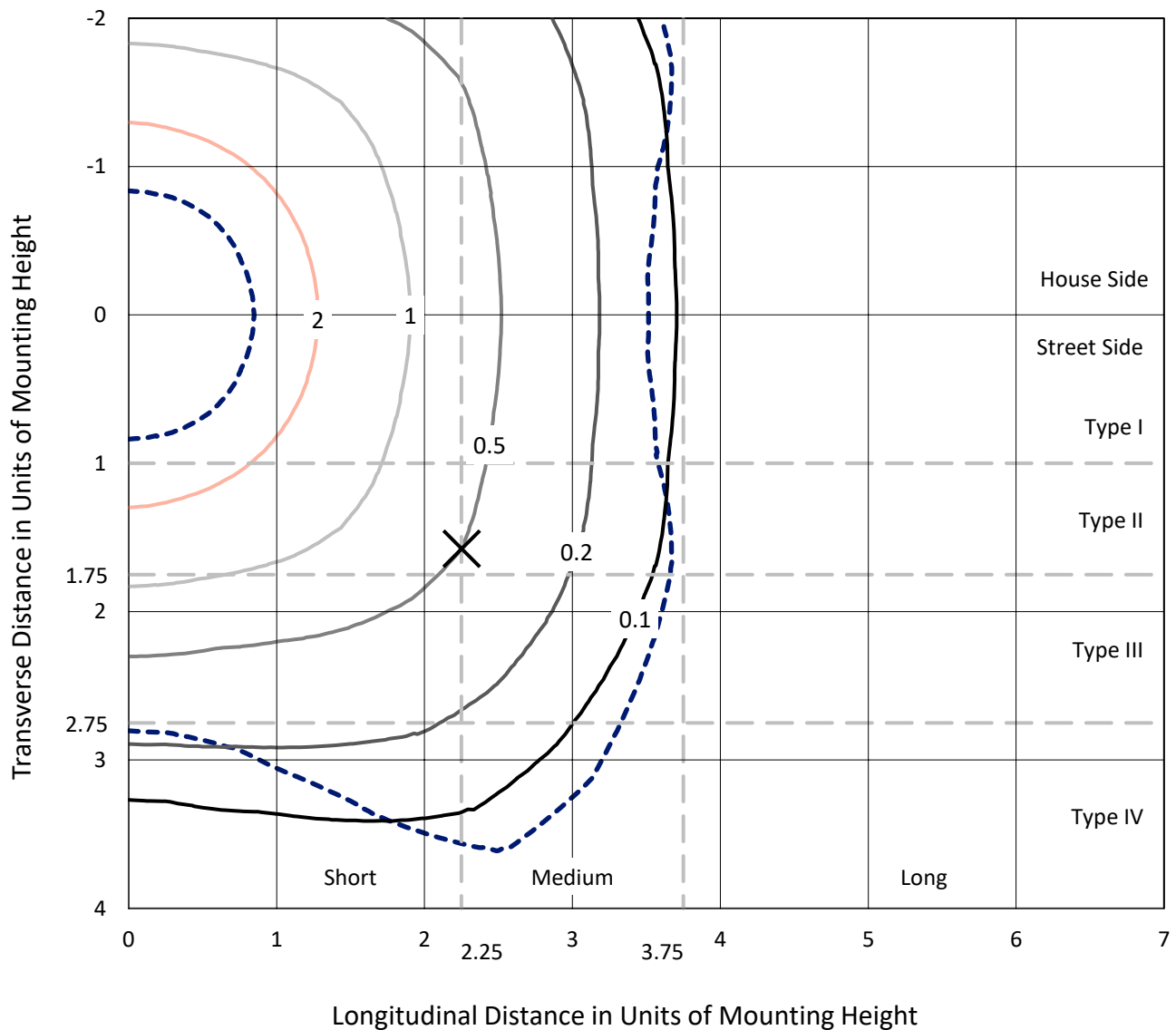


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Iso-Footcandle Lines of Horizontal Illumination

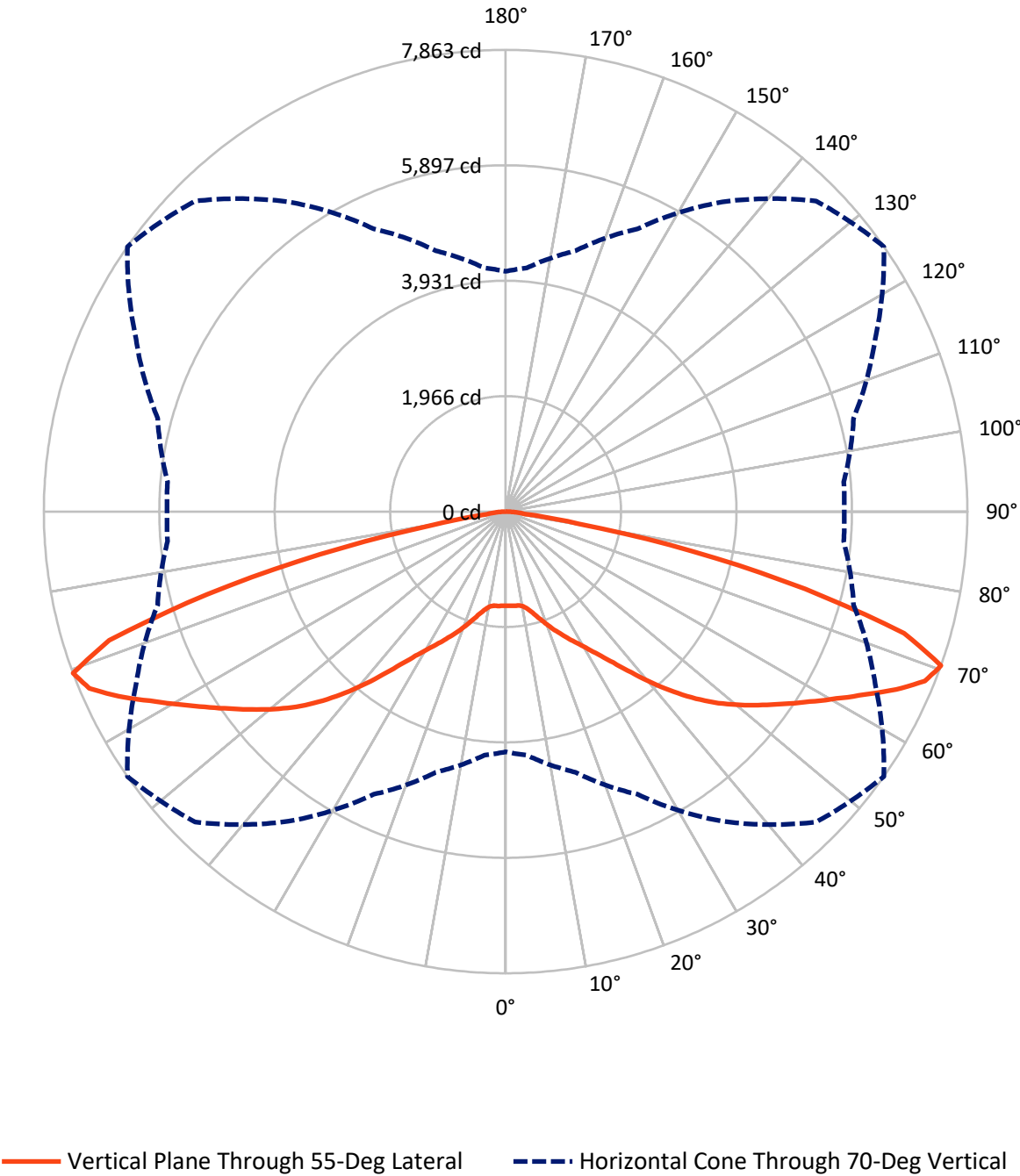
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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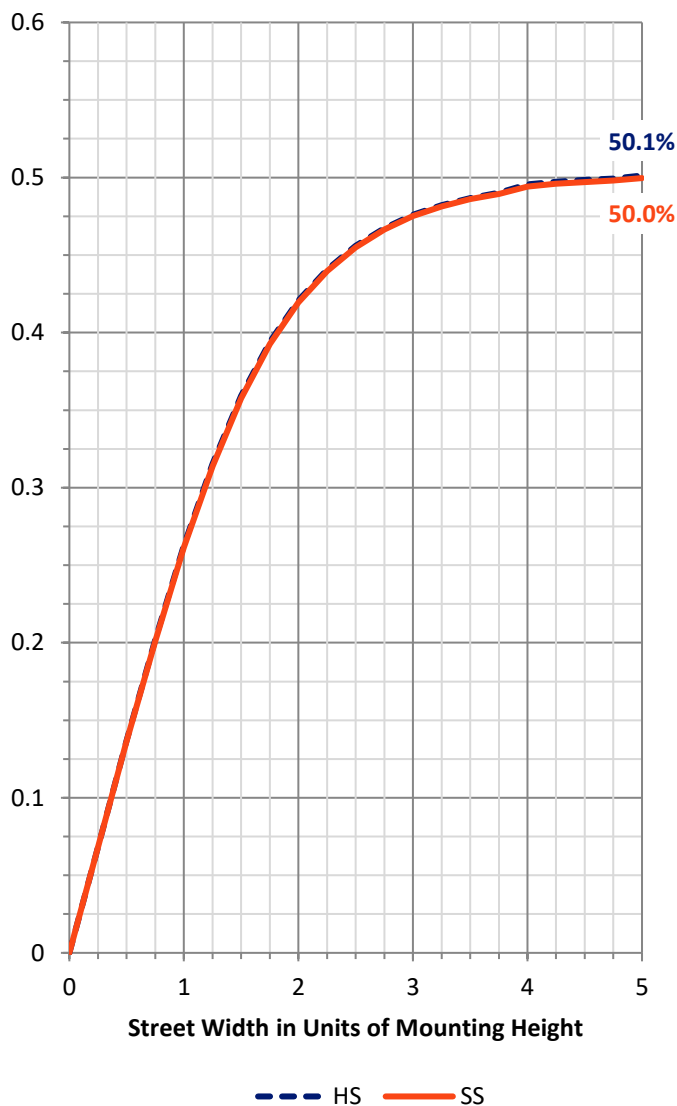
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11512.5	0.0	11512.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11512.5	0.0	11512.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23025.0	0.0	23025.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	0.7
10°-20°	527.4	2.3
20°-30°	1095.8	4.8
30°-40°	2023.9	8.8
40°-50°	3555.5	15.4
50°-60°	5127.9	22.3
60°-70°	6275.9	27.3
70°-80°	3993.5	17.3
80°-90°	270.2	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°	23025.0	100.0
0°-180°	23025.0	100.0

Coefficient of Utilization



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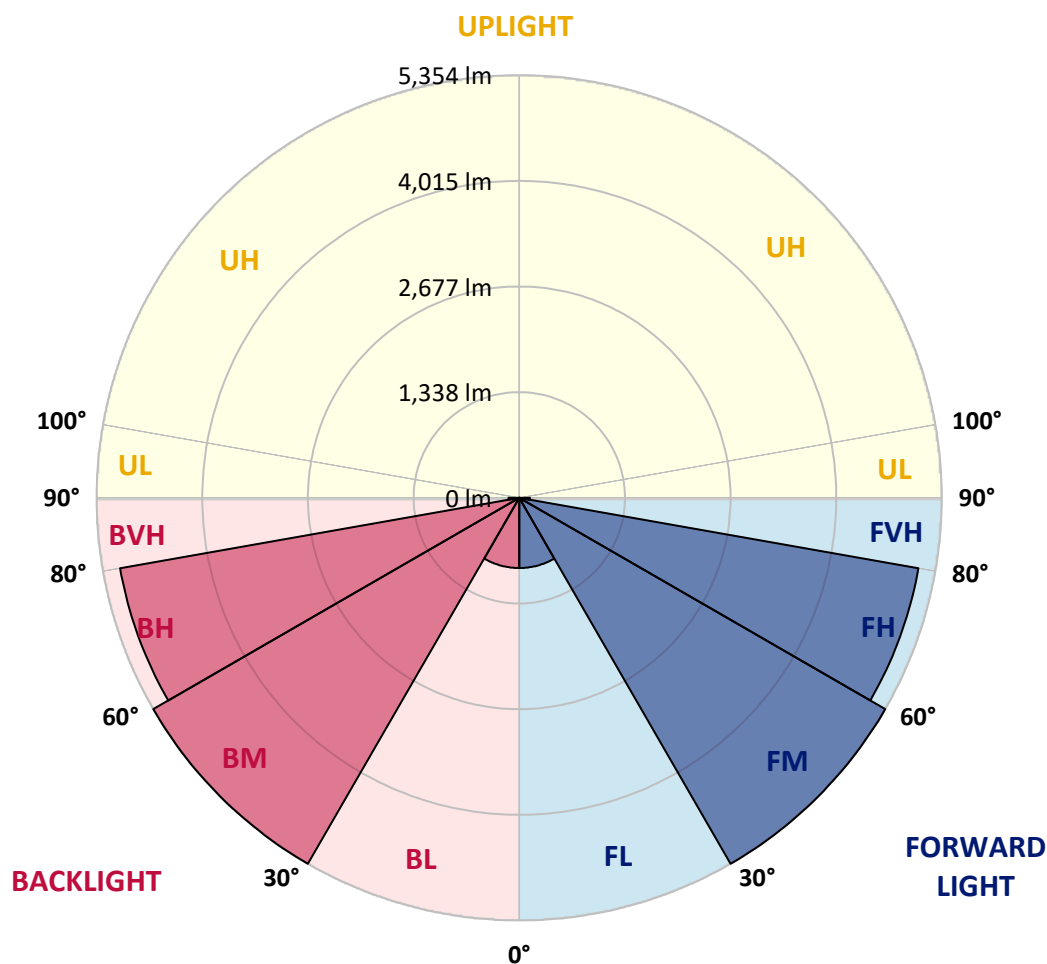
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	889.1	3.9			
FM	(30°-60°)	5353.6	23.3			
FH	(60°-80°)	5134.7	22.3			G3/7500
FVH	(80°-90°)	135.1	0.6			G2/225
BL	(0°-30°)	889.1	3.9	B2/1000		
BM	(30°-60°)	5353.6	23.3	B4/8500		
BH	(60°-80°)	5134.7	22.3	B5		G3/7500
BVH	(80°-90°)	135.1	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1605.1	1605.1	1605.1	1605.1	1605.1	1605.1	1605.1	1605.1	1605.1	1605.1	1605.1
2.5°	1626.5	1626.5	1622.2	1622.2	1613.6	1609.3	1605.1	1605.1	1600.8	1600.8	1596.5
5°	1635.0	1635.0	1635.0	1630.7	1626.5	1622.2	1613.6	1605.1	1600.8	1596.5	1592.2
7.5°	1639.3	1639.3	1635.0	1635.0	1630.7	1626.5	1613.6	1600.8	1596.5	1592.2	1592.2
10°	1673.5	1669.3	1665.0	1656.4	1656.4	1656.4	1639.3	1626.5	1622.2	1622.2	1622.2
12.5°	1754.9	1750.6	1742.0	1729.2	1729.2	1733.5	1707.8	1690.7	1690.7	1686.4	1686.4
15°	1874.7	1870.4	1861.9	1840.5	1836.2	1844.7	1806.2	1789.1	1789.1	1789.1	1784.8
17.5°	2007.4	1998.8	1986.0	1968.9	1968.9	1968.9	1930.4	1909.0	1896.1	1896.1	1891.8
20°	2118.7	2114.4	2114.4	2110.1	2123.0	2123.0	2071.6	2037.4	2007.4	1990.3	1986.0
22.5°	2217.1	2212.8	2221.4	2238.5	2264.2	2272.8	2212.8	2161.5	2114.4	2080.2	2071.6
25°	2349.8	2345.5	2341.2	2366.9	2409.7	2422.6	2358.4	2294.2	2247.1	2230.0	2221.4
27.5°	2491.1	2495.3	2499.6	2525.3	2559.5	2580.9	2516.7	2456.8	2418.3	2392.6	2384.0
30°	2649.4	2658.0	2670.8	2709.3	2735.0	2743.6	2687.9	2645.1	2610.9	2589.5	2576.7
32.5°	2850.6	2867.7	2884.8	2919.1	2931.9	2923.3	2897.7	2867.7	2842.0	2812.1	2807.8
35°	3150.2	3167.3	3163.0	3175.9	3180.2	3171.6	3158.8	3141.6	3128.8	3090.3	3086.0
37.5°	3526.9	3544.0	3518.3	3505.5	3475.5	3479.8	3475.5	3488.3	3492.6	3454.1	3449.8
40°	3907.8	3924.9	3890.7	3856.4	3826.5	3813.6	3835.0	3877.8	3877.8	3852.1	3852.1
42.5°	4314.4	4327.2	4271.6	4228.8	4190.3	4181.7	4194.6	4245.9	4258.8	4254.5	4254.5
45°	4721.0	4712.5	4639.7	4596.9	4562.6	4541.2	4545.5	4584.1	4609.7	4622.6	4622.6
47.5°	5033.5	5020.6	4960.7	4926.5	4905.1	4875.1	4875.1	4896.5	4909.3	4913.6	4913.6
50°	5281.7	5268.9	5209.0	5204.7	5204.7	5191.8	5179.0	5174.7	5166.2	5170.4	5170.4
52.5°	5495.7	5478.6	5435.8	5444.4	5482.9	5491.4	5474.3	5440.1	5405.8	5393.0	5397.3
55°	5726.9	5701.2	5666.9	5692.6	5769.7	5803.9	5778.2	5709.7	5649.8	5611.3	5611.3
57.5°	5910.9	5880.9	5880.9	5953.7	6094.9	6163.4	6107.8	5979.4	5876.7	5833.9	5838.1
60°	5782.5	5756.8	5859.5	6180.5	6445.9	6561.5	6467.3	6240.5	6073.5	6022.2	6030.7
62.5°	5530.0	5512.8	5641.2	6137.7	6762.7	7002.3	6861.1	6535.8	6287.6	6227.6	6227.6
65°	5157.6	5153.3	5333.1	5945.1	6835.4	7426.1	7306.2	6856.8	6535.8	6454.5	6471.6
67.5°	4772.4	4772.4	4935.0	5615.6	6749.8	7605.8	7700.0	7147.9	6655.6	6454.5	6458.8
70°	4091.8	4164.6	4596.9	5311.7	6437.4	7477.4	7862.7	6942.4	6133.5	5778.2	5765.4
72.5°	2696.5	2790.7	3651.0	4780.9	6129.2	7010.9	7096.5	6099.2	5093.4	4678.2	4656.8
75°	1626.5	1707.8	2366.9	3732.3	5388.7	5645.5	5268.9	4780.9	3805.1	3479.8	3479.8
77.5°	479.4	535.0	1091.4	2366.9	3728.0	3710.9	3248.6	2816.3	2251.4	1913.2	1938.9
80°	282.5	291.1	355.3	1078.6	1545.1	1626.5	1254.1	783.3	783.3	582.1	565.0
82.5°	218.3	218.3	226.8	269.7	372.4	415.2	316.7	269.7	308.2	261.1	248.2
85°	154.1	154.1	154.1	158.4	162.6	166.9	175.5	179.8	196.9	162.6	154.1
87.5°	47.1	51.4	55.6	64.2	77.0	81.3	85.6	77.0	77.0	72.8	68.5
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)