

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: P842593

Luminaire Tested: **ARCH4-70-727-U-5WQ**

Issue Date: 5/27/2024

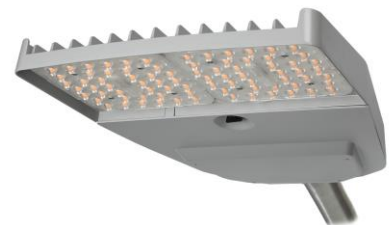
Test Information

Test Method: LM-79-08
Report Number: P842593
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: ARCH4-70-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12173 lumens
Efficiency: N/A
Efficacy: 164.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 73.8
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

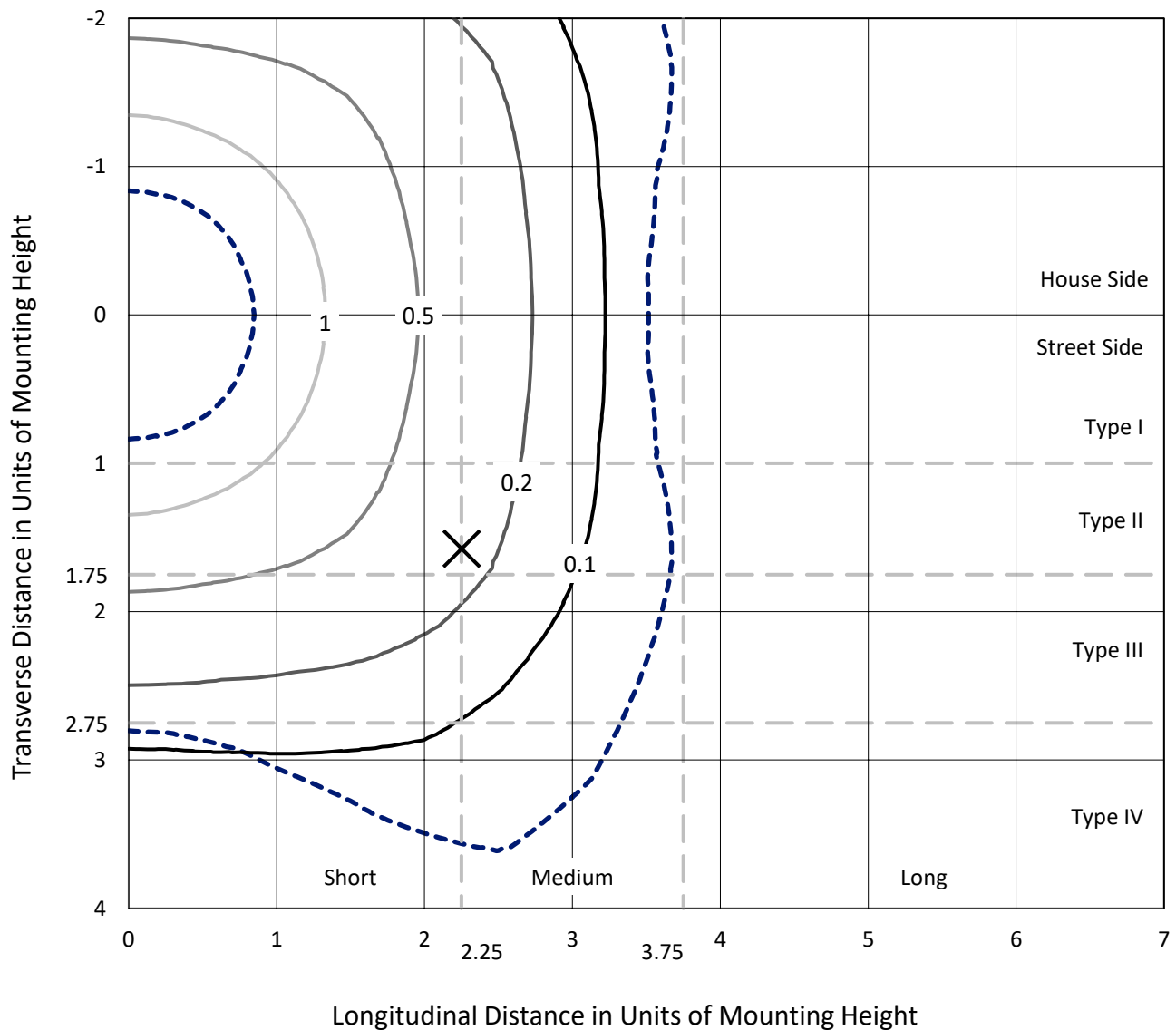


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Iso-Footcandle Lines of Horizontal Illumination

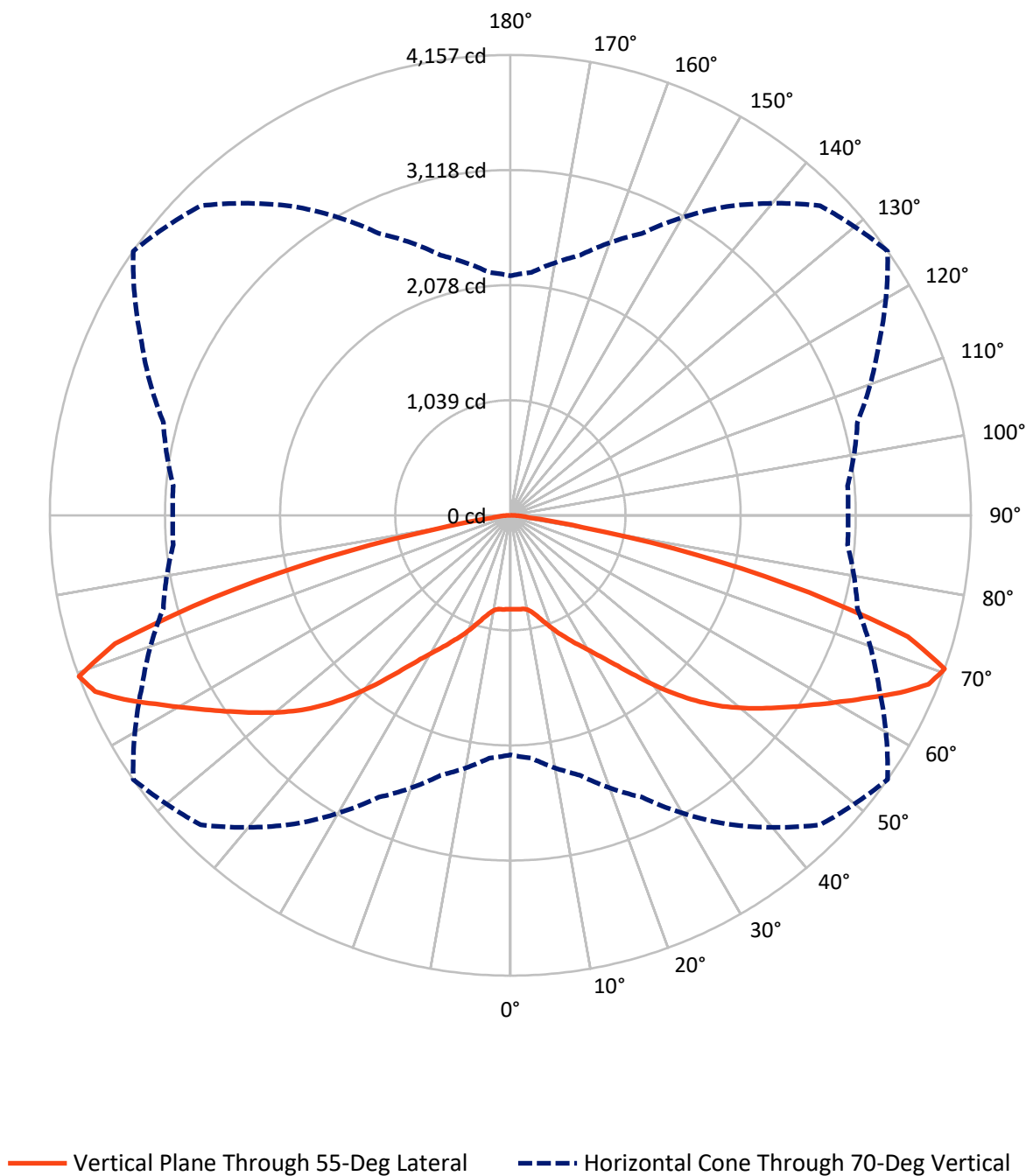
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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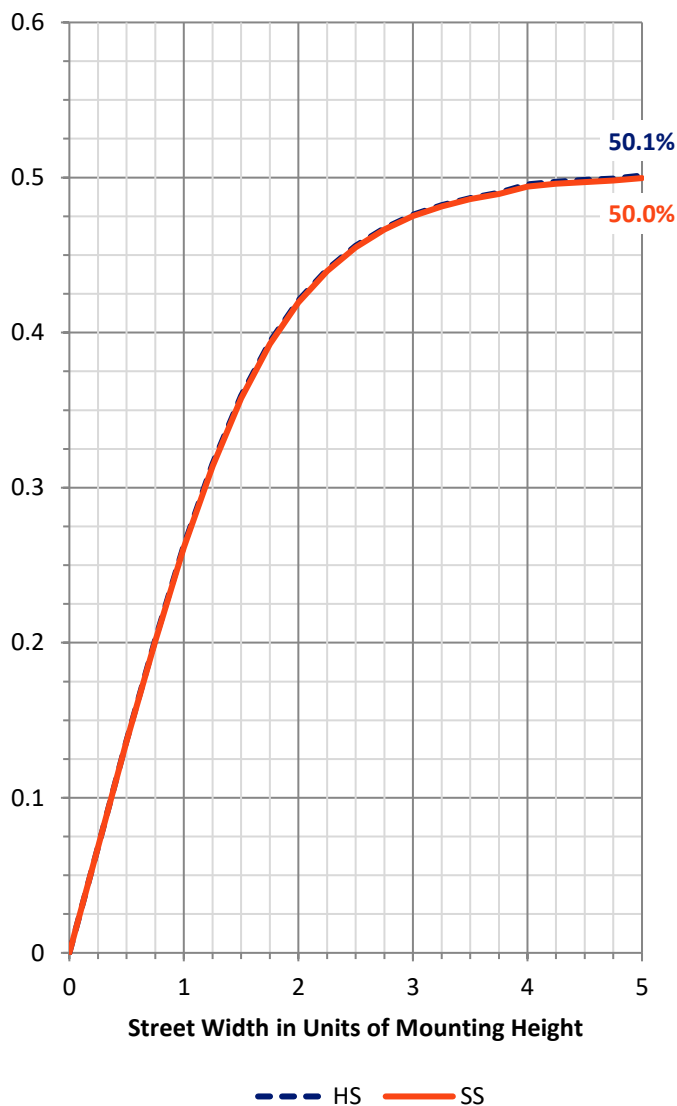
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6086.5	0.0	6086.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6086.5	0.0	6086.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12173.0	0.0	12173.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	0.7
10°-20°	278.8	2.3
20°-30°	579.3	4.8
30°-40°	1070.0	8.8
40°-50°	1879.7	15.4
50°-60°	2711.0	22.3
60°-70°	3318.0	27.3
70°-80°	2111.3	17.3
80°-90°	142.9	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°	12173.0	100.0
0°-180°	12173.0	100.0

Coefficient of Utilization



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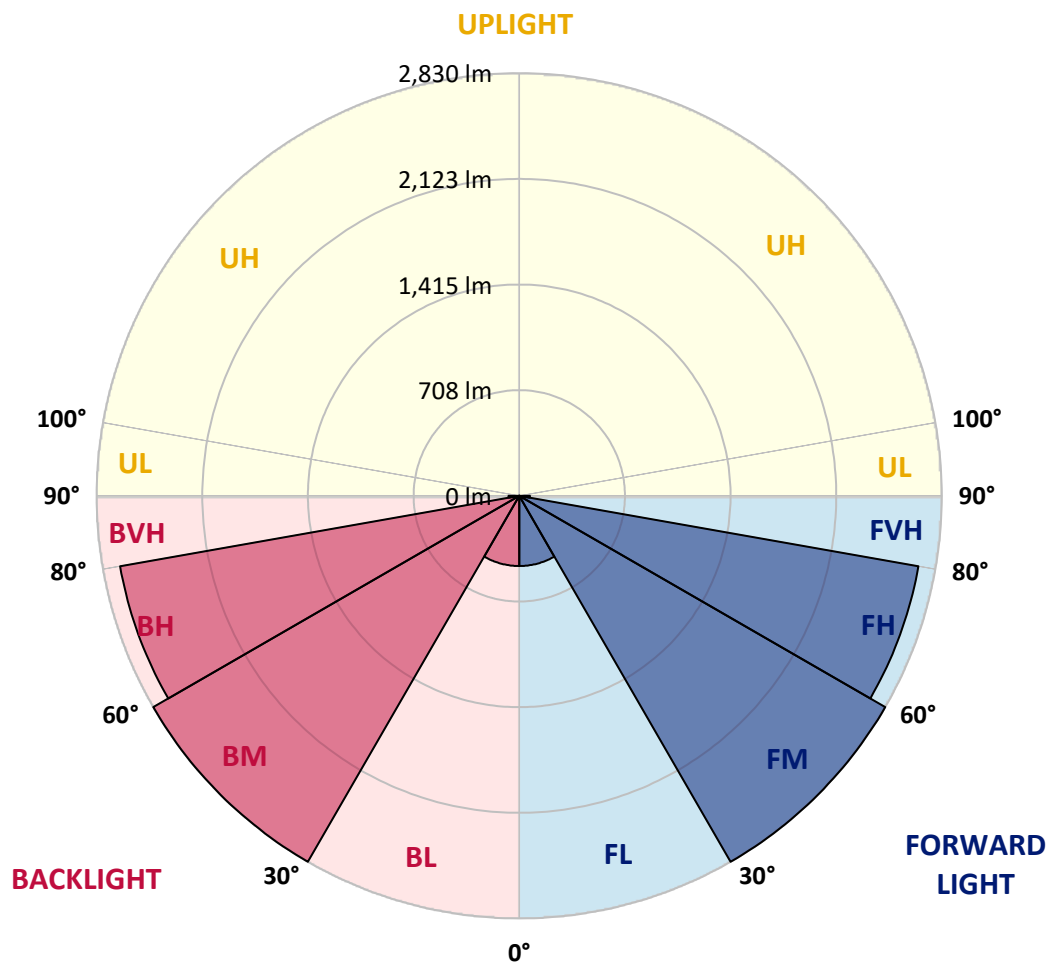
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	470.0	3.9			
FM	(30°-60°)	2830.4	23.3			
FH	(60°-80°)	2714.7	22.3			G2/5000
FVH	(80°-90°)	71.4	0.6			G1/100
BL	(0°-30°)	470.0	3.9	B1/500		
BM	(30°-60°)	2830.4	23.3	B3/5000		
BH	(60°-80°)	2714.7	22.3	B4/5000		G2/5000
BVH	(80°-90°)	71.4	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°	848.6	848.6	848.6	848.6	848.6	848.6	848.6	848.6	848.6	848.6	848.6
2.5°	859.9	859.9	857.6	857.6	853.1	850.8	848.6	848.6	846.3	846.3	844.0
5°	864.4	864.4	864.4	862.2	859.9	857.6	853.1	848.6	846.3	844.0	841.8
7.5°	866.7	866.7	864.4	864.4	862.2	859.9	853.1	846.3	844.0	841.8	841.8
10°	884.8	882.5	880.3	875.7	875.7	875.7	866.7	859.9	857.6	857.6	857.6
12.5°	927.8	925.5	921.0	914.2	914.2	916.5	902.9	893.8	893.8	891.6	891.6
15°	991.1	988.9	984.3	973.0	970.8	975.3	954.9	945.9	945.9	945.9	943.6
17.5°	1061.3	1056.8	1050.0	1040.9	1040.9	1040.9	1020.6	1009.2	1002.4	1002.4	1000.2
20°	1120.1	1117.9	1117.9	1115.6	1122.4	1122.4	1095.2	1077.1	1061.3	1052.2	1050.0
22.5°	1172.2	1169.9	1174.4	1183.5	1197.1	1201.6	1169.9	1142.7	1117.9	1099.8	1095.2
25°	1242.3	1240.0	1237.8	1251.4	1274.0	1280.8	1246.8	1212.9	1188.0	1179.0	1174.4
27.5°	1317.0	1319.2	1321.5	1335.1	1353.2	1364.5	1330.6	1298.9	1278.5	1264.9	1260.4
30°	1400.7	1405.2	1412.0	1432.4	1446.0	1450.5	1421.1	1398.4	1380.3	1369.0	1362.2
32.5°	1507.1	1516.1	1525.2	1543.3	1550.1	1545.5	1532.0	1516.1	1502.5	1486.7	1484.4
35°	1665.5	1674.5	1672.3	1679.0	1681.3	1676.8	1670.0	1660.9	1654.2	1633.8	1631.5
37.5°	1864.6	1873.6	1860.1	1853.3	1837.4	1839.7	1837.4	1844.2	1846.5	1826.1	1823.9
40°	2066.0	2075.0	2056.9	2038.8	2023.0	2016.2	2027.5	2050.2	2050.2	2036.6	2036.6
42.5°	2281.0	2287.8	2258.3	2235.7	2215.3	2210.8	2217.6	2244.8	2251.5	2249.3	2249.3
45°	2495.9	2491.4	2452.9	2430.3	2412.2	2400.9	2403.2	2423.5	2437.1	2443.9	2443.9
47.5°	2661.1	2654.3	2622.7	2604.6	2593.2	2577.4	2577.4	2588.7	2595.5	2597.8	2597.8
50°	2792.4	2785.6	2753.9	2751.6	2751.6	2744.9	2738.1	2735.8	2731.3	2733.5	2733.5
52.5°	2905.5	2896.5	2873.8	2878.4	2898.7	2903.3	2894.2	2876.1	2858.0	2851.2	2853.5
55°	3027.7	3014.1	2996.0	3009.6	3050.3	3068.4	3054.9	3018.7	2987.0	2966.6	2966.6
57.5°	3125.0	3109.2	3109.2	3147.6	3222.3	3258.5	3229.1	3161.2	3106.9	3084.3	3086.5
60°	3057.1	3043.5	3097.9	3267.6	3407.9	3469.0	3419.2	3299.3	3211.0	3183.8	3188.4
62.5°	2923.6	2914.6	2982.5	3244.9	3575.3	3702.0	3627.4	3455.4	3324.1	3292.5	3292.5
65°	2726.7	2724.5	2819.5	3143.1	3613.8	3926.1	3862.7	3625.1	3455.4	3412.4	3421.4
67.5°	2523.1	2523.1	2609.1	2968.9	3568.5	4021.1	4070.9	3779.0	3518.7	3412.4	3414.7
70°	2163.3	2201.8	2430.3	2808.2	3403.3	3953.2	4156.9	3670.4	3242.7	3054.9	3048.1
72.5°	1425.6	1475.4	1930.2	2527.6	3240.4	3706.6	3751.8	3224.6	2692.8	2473.3	2462.0
75°	859.9	902.9	1251.4	1973.2	2848.9	2984.7	2785.6	2527.6	2011.7	1839.7	1839.7
77.5°	253.4	282.9	577.0	1251.4	1971.0	1961.9	1717.5	1489.0	1190.3	1011.5	1025.1
80°	149.3	153.9	187.8	570.2	816.9	859.9	663.0	414.1	414.1	307.7	298.7
82.5°	115.4	115.4	119.9	142.6	196.9	219.5	167.5	142.6	162.9	138.0	131.2
85°	81.5	81.5	81.5	83.7	86.0	88.3	92.8	95.0	104.1	86.0	81.5
87.5°	24.9	27.2	29.4	33.9	40.7	43.0	45.3	40.7	40.7	38.5	36.2
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)