

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: P842656

Luminaire Tested: **ARCH4-80-722-U-5WQ**

Issue Date: 5/27/2024

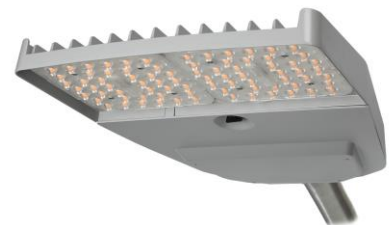
Test Information

Test Method: LM-79-08
Report Number: P842656
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: ARCH4-80-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12408 lumens
Efficiency: N/A
Efficacy: 148.8 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): 83.4
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

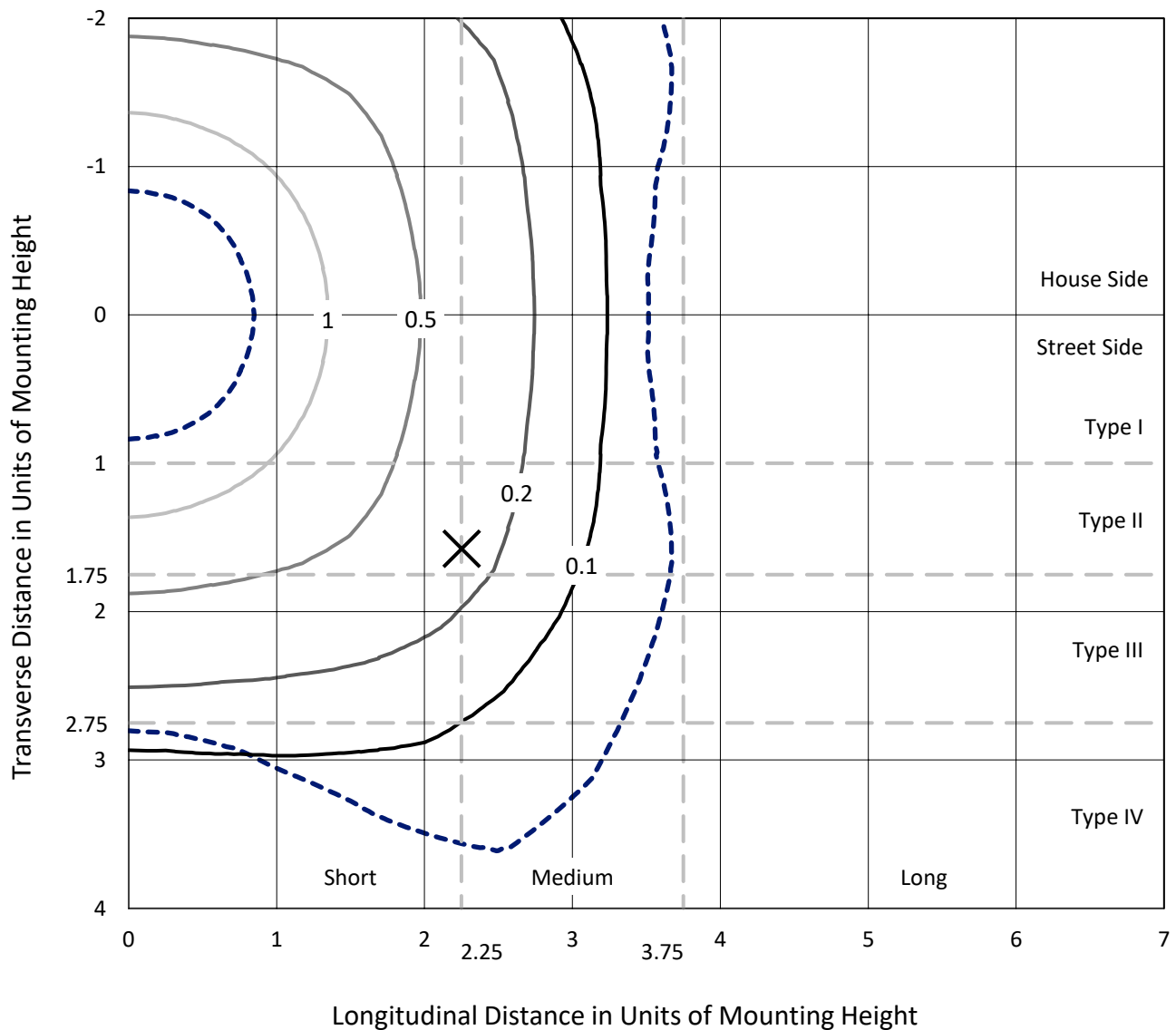


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Iso-Footcandle Lines of Horizontal Illumination

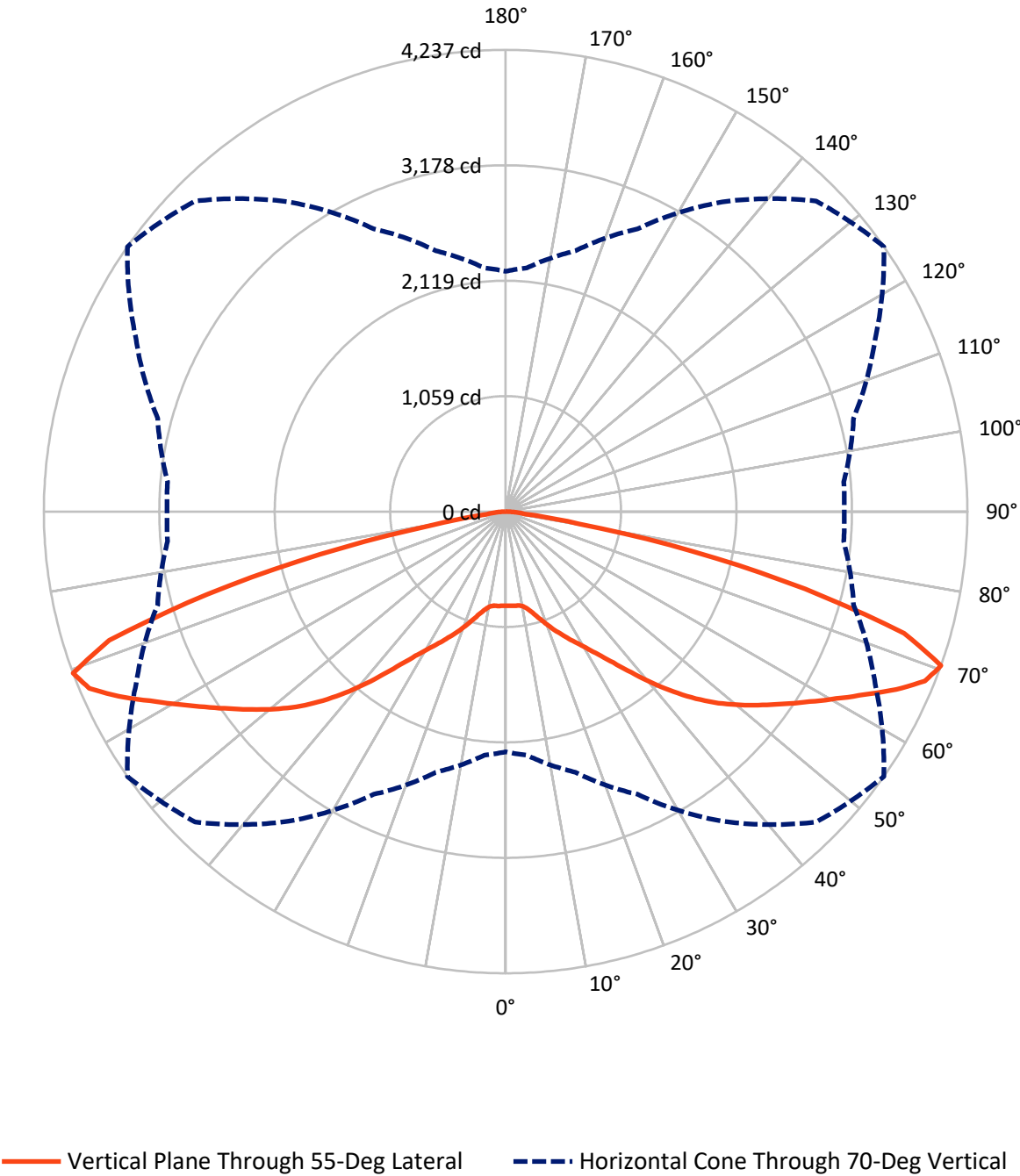
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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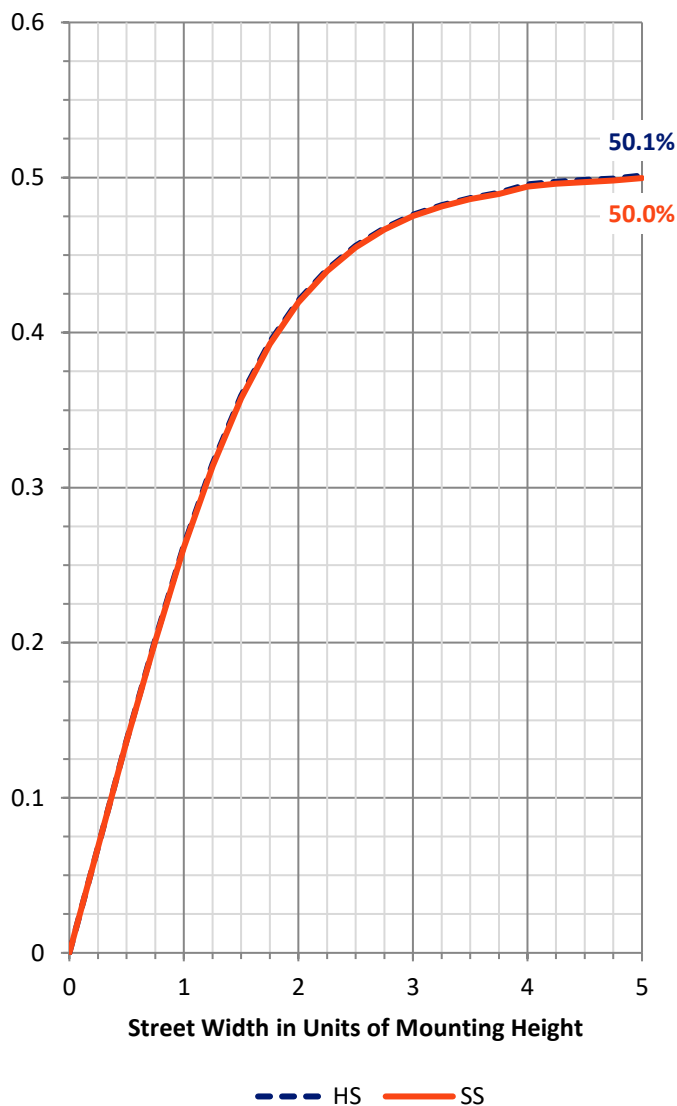
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6204.0	0.0	6204.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6204.0	0.0	6204.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12408.0	0.0	12408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	0.7
10°-20°	284.2	2.3
20°-30°	590.5	4.8
30°-40°	1090.6	8.8
40°-50°	1916.0	15.4
50°-60°	2763.4	22.3
60°-70°	3382.1	27.3
70°-80°	2152.1	17.3
80°-90°	145.6	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°	12408.0	100.0
0°-180°	12408.0	100.0

Coefficient of Utilization



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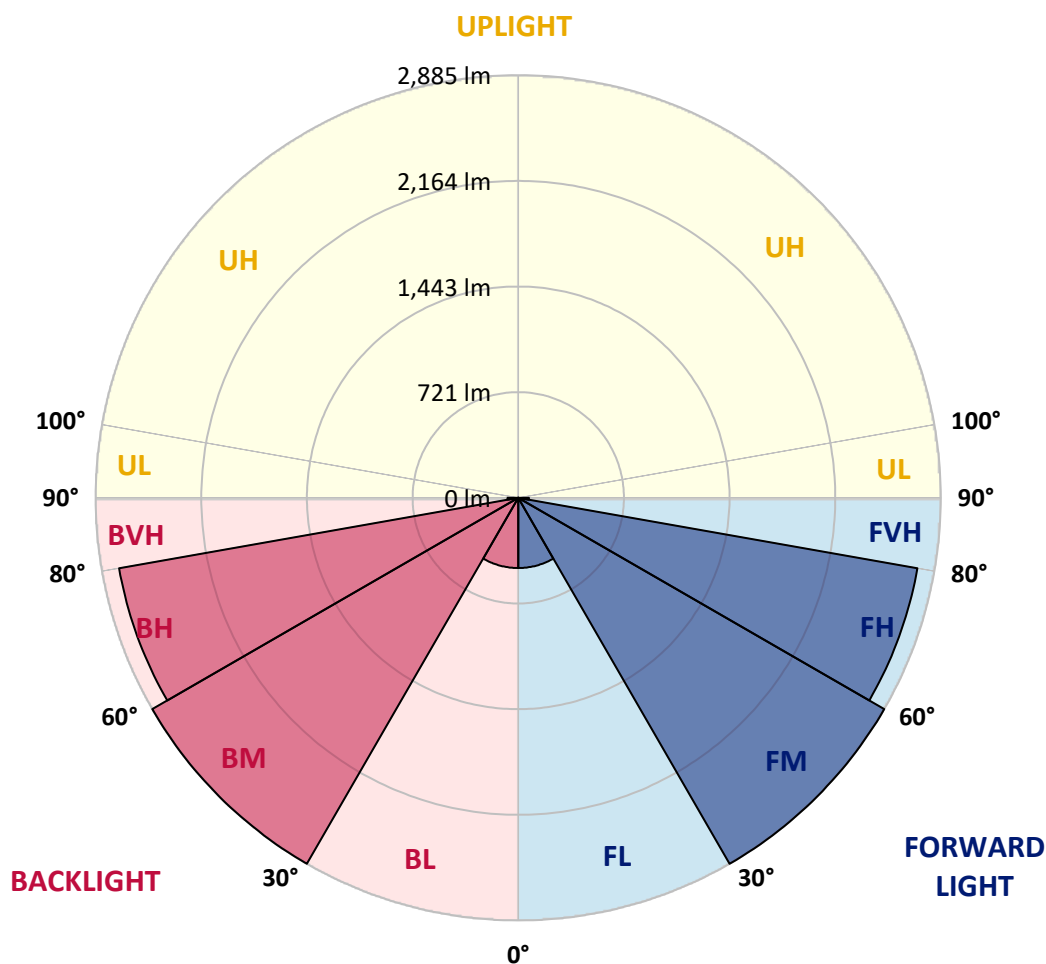
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	479.1	3.9			
FM	(30°-60°)	2885.0	23.3			
FH	(60°-80°)	2767.1	22.3			G2/5000
FVH	(80°-90°)	72.8	0.6			G1/100
BL	(0°-30°)	479.1	3.9	B1/500		
BM	(30°-60°)	2885.0	23.3	B3/5000		
BH	(60°-80°)	2767.1	22.3	B4/5000		G2/5000
BVH	(80°-90°)	72.8	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°	865.0	865.0	865.0	865.0	865.0	865.0	865.0	865.0	865.0	865.0	865.0
2.5°	876.5	876.5	874.2	874.2	869.6	867.3	865.0	865.0	862.6	862.6	860.3
5°	881.1	881.1	881.1	878.8	876.5	874.2	869.6	865.0	862.6	860.3	858.0
7.5°	883.4	883.4	881.1	881.1	878.8	876.5	869.6	862.6	860.3	858.0	858.0
10°	901.9	899.6	897.2	892.6	892.6	892.6	883.4	876.5	874.2	874.2	874.2
12.5°	945.7	943.4	938.8	931.8	931.8	934.2	920.3	911.1	911.1	908.8	908.8
15°	1010.3	1008.0	1003.3	991.8	989.5	994.1	973.4	964.1	964.1	964.1	961.8
17.5°	1081.8	1077.2	1070.2	1061.0	1061.0	1061.0	1040.3	1028.7	1021.8	1021.8	1019.5
20°	1141.7	1139.4	1139.4	1137.1	1144.0	1144.0	1116.4	1097.9	1081.8	1072.5	1070.2
22.5°	1194.8	1192.5	1197.1	1206.3	1220.2	1224.8	1192.5	1164.8	1139.4	1121.0	1116.4
25°	1266.3	1264.0	1261.7	1275.5	1298.6	1305.5	1270.9	1236.3	1210.9	1201.7	1197.1
27.5°	1342.4	1344.7	1347.0	1360.9	1379.3	1390.8	1356.2	1324.0	1303.2	1289.4	1284.7
30°	1427.8	1432.4	1439.3	1460.0	1473.9	1478.5	1448.5	1425.4	1407.0	1395.5	1388.5
32.5°	1536.2	1545.4	1554.6	1573.1	1580.0	1575.4	1561.5	1545.4	1531.5	1515.4	1513.1
35°	1697.6	1706.8	1704.5	1711.5	1713.8	1709.2	1702.2	1693.0	1686.1	1665.3	1663.0
37.5°	1900.6	1909.8	1896.0	1889.1	1872.9	1875.2	1872.9	1879.8	1882.1	1861.4	1859.1
40°	2105.9	2115.1	2096.7	2078.2	2062.1	2055.1	2066.7	2089.7	2089.7	2075.9	2075.9
42.5°	2325.0	2331.9	2301.9	2278.9	2258.1	2253.5	2260.4	2288.1	2295.0	2292.7	2292.7
45°	2544.1	2539.5	2500.3	2477.2	2458.8	2447.2	2449.6	2470.3	2484.1	2491.1	2491.1
47.5°	2712.5	2705.6	2673.3	2654.8	2643.3	2627.2	2627.2	2638.7	2645.6	2647.9	2647.9
50°	2846.3	2839.4	2807.1	2804.8	2804.8	2797.8	2790.9	2788.6	2784.0	2786.3	2786.3
52.5°	2961.6	2952.4	2929.3	2933.9	2954.7	2959.3	2950.1	2931.6	2913.2	2906.2	2908.6
55°	3086.2	3072.3	3053.9	3067.7	3109.2	3127.7	3113.8	3076.9	3044.6	3023.9	3023.9
57.5°	3185.3	3169.2	3169.2	3208.4	3284.5	3321.4	3291.4	3222.2	3166.9	3143.8	3146.1
60°	3116.1	3102.3	3157.7	3330.7	3473.7	3535.9	3485.2	3362.9	3273.0	3245.3	3249.9
62.5°	2980.1	2970.8	3040.0	3307.6	3644.3	3773.5	3697.4	3522.1	3388.3	3356.0	3356.0
65°	2779.4	2777.1	2874.0	3203.8	3683.6	4001.9	3937.3	3695.1	3522.1	3478.3	3487.5
67.5°	2571.8	2571.8	2659.4	3026.2	3637.4	4098.7	4149.5	3851.9	3586.7	3478.3	3480.6
70°	2205.1	2244.3	2477.2	2862.4	3469.0	4029.5	4237.1	3741.2	3305.3	3113.8	3106.9
72.5°	1453.1	1503.9	1967.5	2576.4	3303.0	3778.1	3824.3	3286.8	2744.8	2521.1	2509.5
75°	876.5	920.3	1275.5	2011.3	2903.9	3042.3	2839.4	2576.4	2050.5	1875.2	1875.2
77.5°	258.3	288.3	588.2	1275.5	2009.0	1999.8	1750.7	1517.7	1213.2	1031.0	1044.9
80°	152.2	156.8	191.4	581.2	832.7	876.5	675.8	422.1	422.1	313.7	304.5
82.5°	117.6	117.6	122.2	145.3	200.7	223.7	170.7	145.3	166.1	140.7	133.8
85°	83.0	83.0	83.0	85.3	87.6	90.0	94.6	96.9	106.1	87.6	83.0
87.5°	25.4	27.7	30.0	34.6	41.5	43.8	46.1	41.5	41.5	39.2	36.9
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)