

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: LUMARK

Report Number: P964163

Luminaire Tested: **NAV-SB3B-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

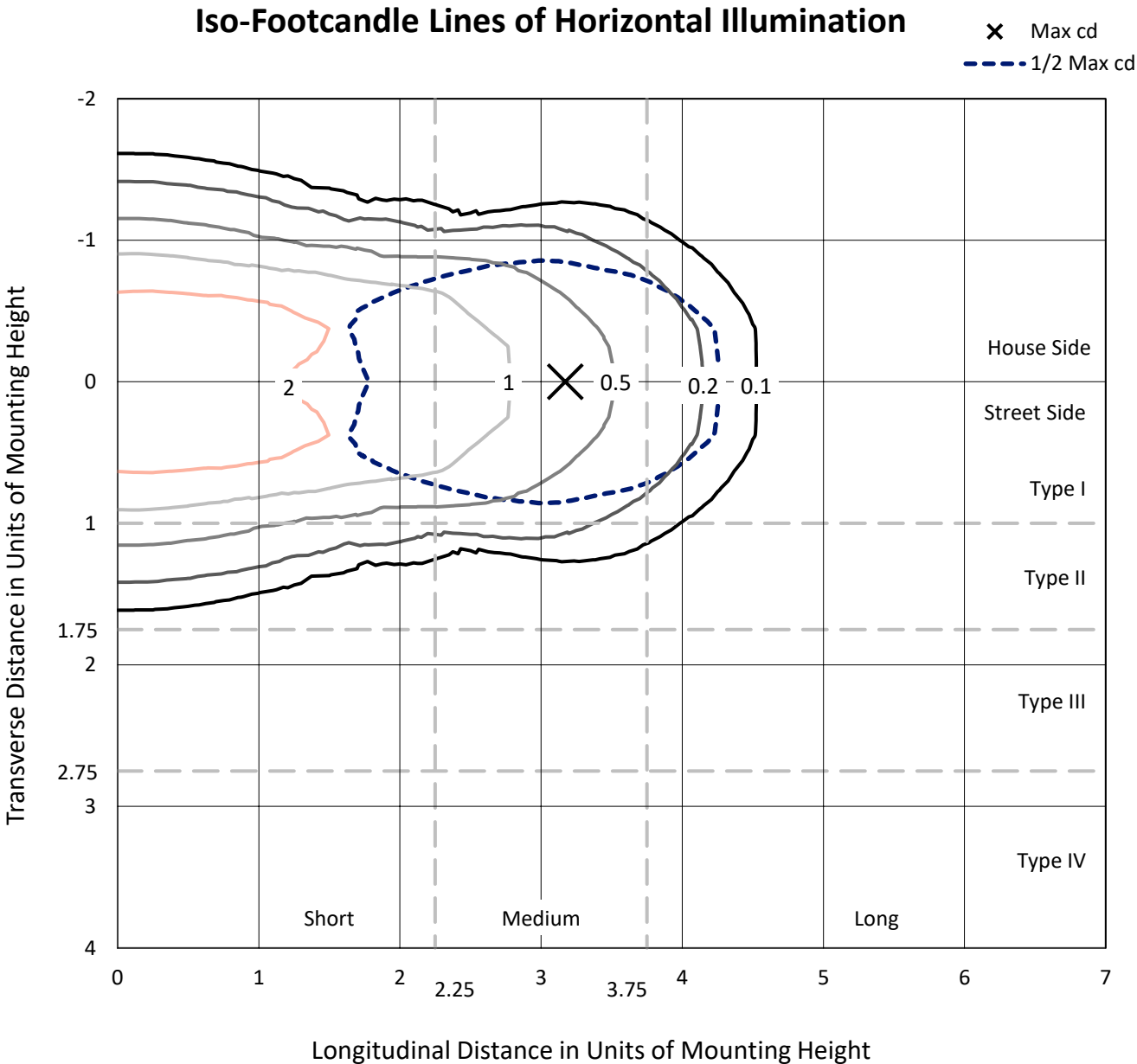
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14897.4 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 109.2
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



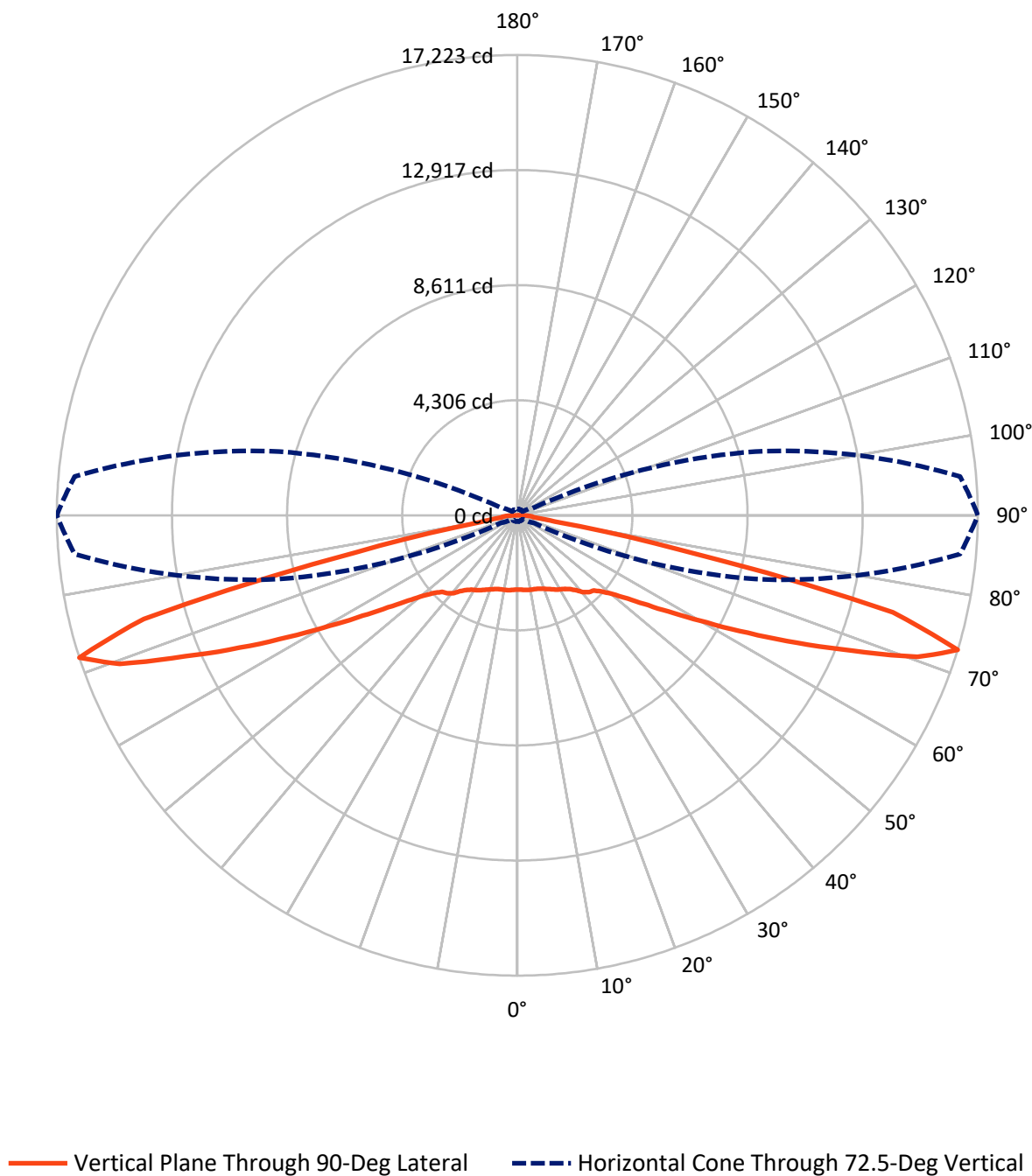
REPORT NUMBER: P964163
CATALOG NUMBER: NAV-SB3B-827-U-T1



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
Type I - Short - N/A

REPORT NUMBER: P964163
CATALOG NUMBER: NAV-SB3B-827-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P964163

CATALOG NUMBER: NAV-SB3B-827-U-T1

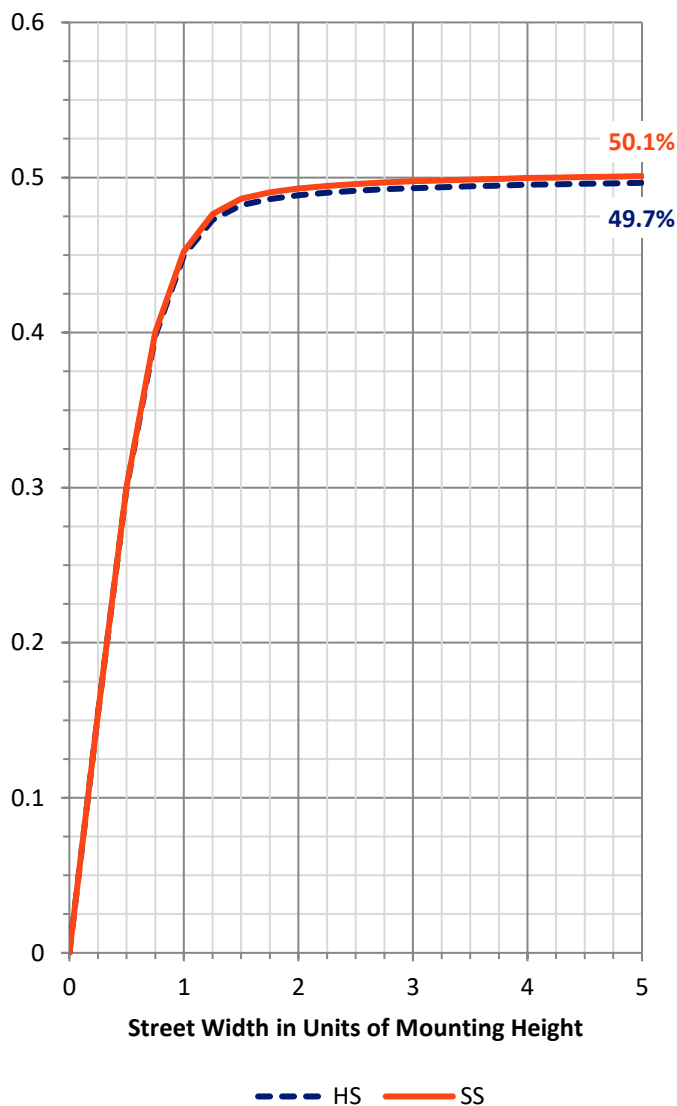
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7448.7	0.0	7448.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7448.7	0.0	7448.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	14897.4	0.0	14897.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.9	1.8
10°-20°	825.3	5.5
20°-30°	1376.1	9.2
30°-40°	1892.6	12.7
40°-50°	2311.4	15.5
50°-60°	2673.3	17.9
60°-70°	3187.5	21.4
70°-80°	2224.7	14.9
80°-90°	136.7	0.9
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°	14897.4	100.0
0°-180°	14897.4	100.0

Coefficient of Utilization



REPORT NUMBER: P964163

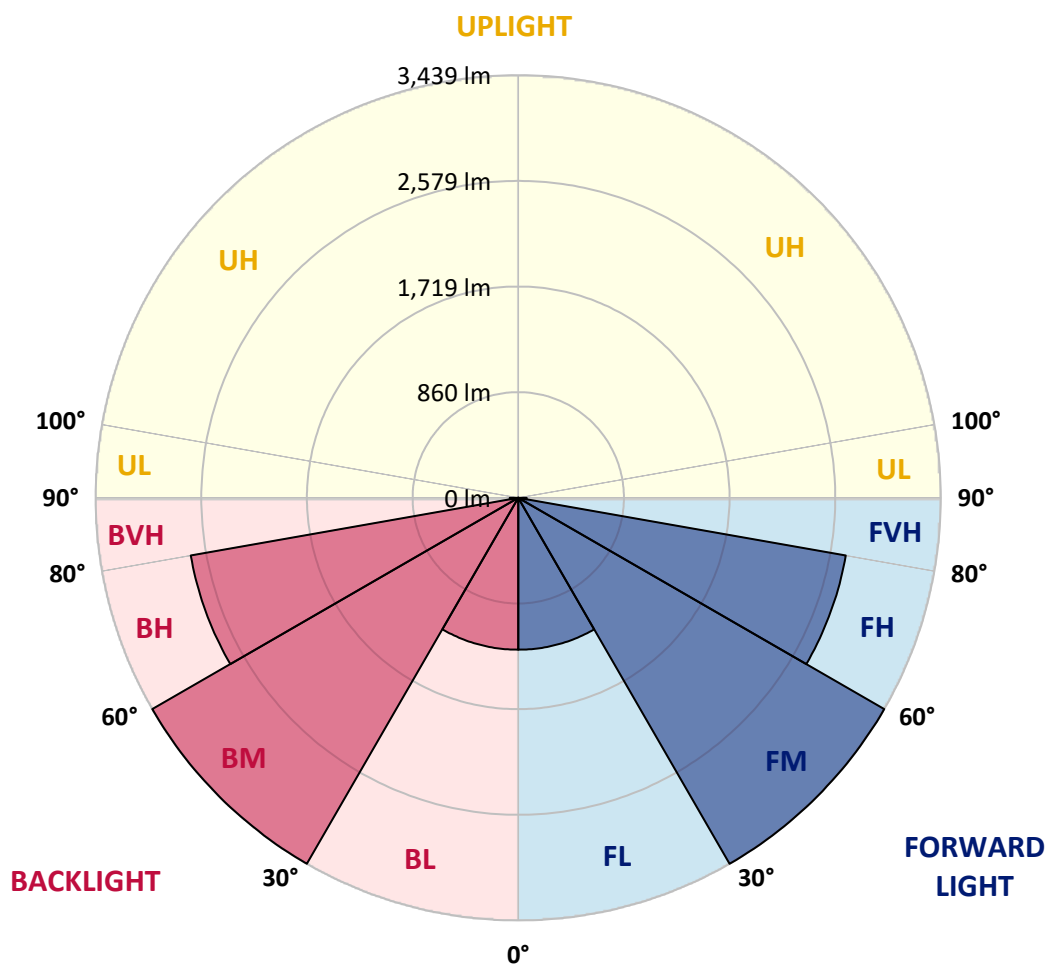
CATALOG NUMBER: NAV-SB3B-827-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1235.7	8.3			
FM	(30°-60°)	3438.6	23.1			
FH	(60°-80°)	2706.1	18.2			G2/5000
FVH	(80°-90°)	68.3	0.5			G1/100
BL	(0°-30°)	1235.7	8.3	B3/2500		
BM	(30°-60°)	3438.6	23.1	B3/5000		
BH	(60°-80°)	2706.1	18.2	B4/5000		G4/5000
BVH	(80°-90°)	68.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



REPORT NUMBER: P964163

CATALOG NUMBER: NAV-SB3B-827-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2783.7	2783.7	2783.7	2783.7	2783.7	2783.7	2783.7	2783.7	2783.7	2783.7	2783.7
2.5°	2786.1	2789.2	2789.2	2786.9	2792.4	2787.7	2787.7	2785.3	2787.7	2785.3	2785.3
5°	2800.4	2804.3	2805.9	2805.1	2812.2	2808.3	2808.3	2805.1	2805.9	2803.5	2803.5
7.5°	2827.3	2832.8	2836.0	2840.0	2850.2	2845.5	2842.3	2832.8	2828.9	2822.5	2822.5
10°	2836.0	2842.3	2852.6	2873.2	2897.0	2897.8	2888.2	2864.5	2846.3	2832.0	2829.6
12.5°	2809.0	2817.7	2839.1	2881.1	2934.2	2955.5	2940.5	2900.9	2865.3	2840.0	2836.0
15°	2775.0	2784.5	2817.0	2880.4	2958.7	3008.6	3007.0	2954.8	2897.8	2858.1	2851.9
17.5°	2722.0	2731.5	2778.2	2866.8	2977.7	3060.0	3082.2	3028.4	2948.4	2895.3	2886.6
20°	2626.2	2634.9	2699.8	2824.1	2984.1	3114.7	3172.5	3124.9	3025.2	2953.1	2939.7
22.5°	2501.8	2515.4	2591.3	2750.5	2969.0	3171.7	3275.4	3242.9	3114.7	3014.9	2996.7
25°	2368.9	2383.1	2471.8	2660.2	2930.2	3212.9	3397.4	3376.8	3216.0	3091.7	3066.4
27.5°	2254.1	2269.1	2365.7	2570.8	2870.0	3228.6	3517.7	3527.9	3338.7	3176.5	3149.5
30°	2163.8	2178.0	2280.9	2498.7	2792.4	3212.9	3623.0	3694.2	3463.8	3250.1	3211.2
32.5°	2064.9	2083.0	2191.6	2410.8	2700.6	3174.8	3714.8	3874.0	3608.7	3329.2	3280.1
35°	1939.7	1956.4	2070.4	2290.5	2580.2	3113.8	3791.6	4073.5	3816.2	3449.5	3394.9
37.5°	1787.7	1803.6	1916.7	2140.1	2460.7	3028.4	3850.2	4298.3	4063.2	3623.0	3550.1
40°	1634.9	1649.9	1756.0	1972.2	2317.4	2919.1	3870.8	4518.4	4346.6	3861.3	3783.7
42.5°	1494.8	1508.3	1605.7	1806.8	2156.7	2779.8	3843.9	4710.0	4600.7	4027.5	3927.8
45°	1365.7	1377.6	1463.9	1651.6	1989.6	2610.4	3763.1	4915.9	4903.2	4146.3	4011.7
47.5°	1218.5	1230.3	1319.8	1501.1	1822.6	2411.6	3626.1	5118.5	5323.6	4415.5	4260.3
50°	1038.7	1049.1	1140.9	1327.7	1649.2	2200.3	3436.1	5277.7	5854.1	4823.2	4628.5
52.5°	825.7	836.8	926.3	1113.1	1443.3	1973.0	3185.9	5381.4	6466.8	5418.6	5178.7
55°	614.4	622.3	699.9	867.8	1188.4	1714.1	2872.4	5410.7	7162.0	6232.5	5932.4
57.5°	445.8	450.5	500.4	625.5	901.0	1390.3	2491.6	5334.7	7989.4	7276.0	6898.4
60°	361.0	362.6	377.6	433.1	626.3	1024.5	2031.5	5073.4	8887.2	8621.2	8145.4
62.5°	327.8	327.8	331.7	346.8	423.5	676.1	1475.0	4531.8	9849.9	10321.0	9683.7
65°	304.8	304.8	306.4	313.5	334.2	430.7	931.1	3649.9	10661.4	12312.2	11506.2
67.5°	284.2	285.1	284.2	286.6	298.5	318.3	540.0	2520.9	11098.5	14375.4	13505.4
70°	262.8	264.4	260.5	260.5	270.0	270.8	338.0	1382.3	10735.8	16104.6	15875.8
72.5°	237.5	239.8	233.6	232.0	239.1	236.0	254.1	663.5	9217.3	16620.8	17222.6
75°	215.4	218.5	204.3	200.3	200.3	197.9	206.6	340.4	5982.3	13558.4	14502.1
77.5°	195.6	201.9	179.0	166.3	163.1	156.0	168.6	208.2	2616.7	6365.6	6233.3
80°	161.5	170.3	147.3	132.2	126.7	118.8	133.0	145.7	778.3	1478.2	1415.6
82.5°	120.3	124.3	104.6	94.2	89.5	83.9	99.7	101.4	253.4	523.4	591.4
85°	76.8	78.4	64.2	55.5	53.1	50.6	63.3	55.5	96.6	384.8	558.9
87.5°	27.0	30.9	24.5	22.1	23.8	19.8	29.3	16.6	27.0	271.5	336.5
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)