

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: P962489

Luminaire Tested: **NAV-SB2C-740-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962489
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-SB2C-740-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16066.9 lumens
Efficiency: N/A
Efficacy: 159.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 100.9
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



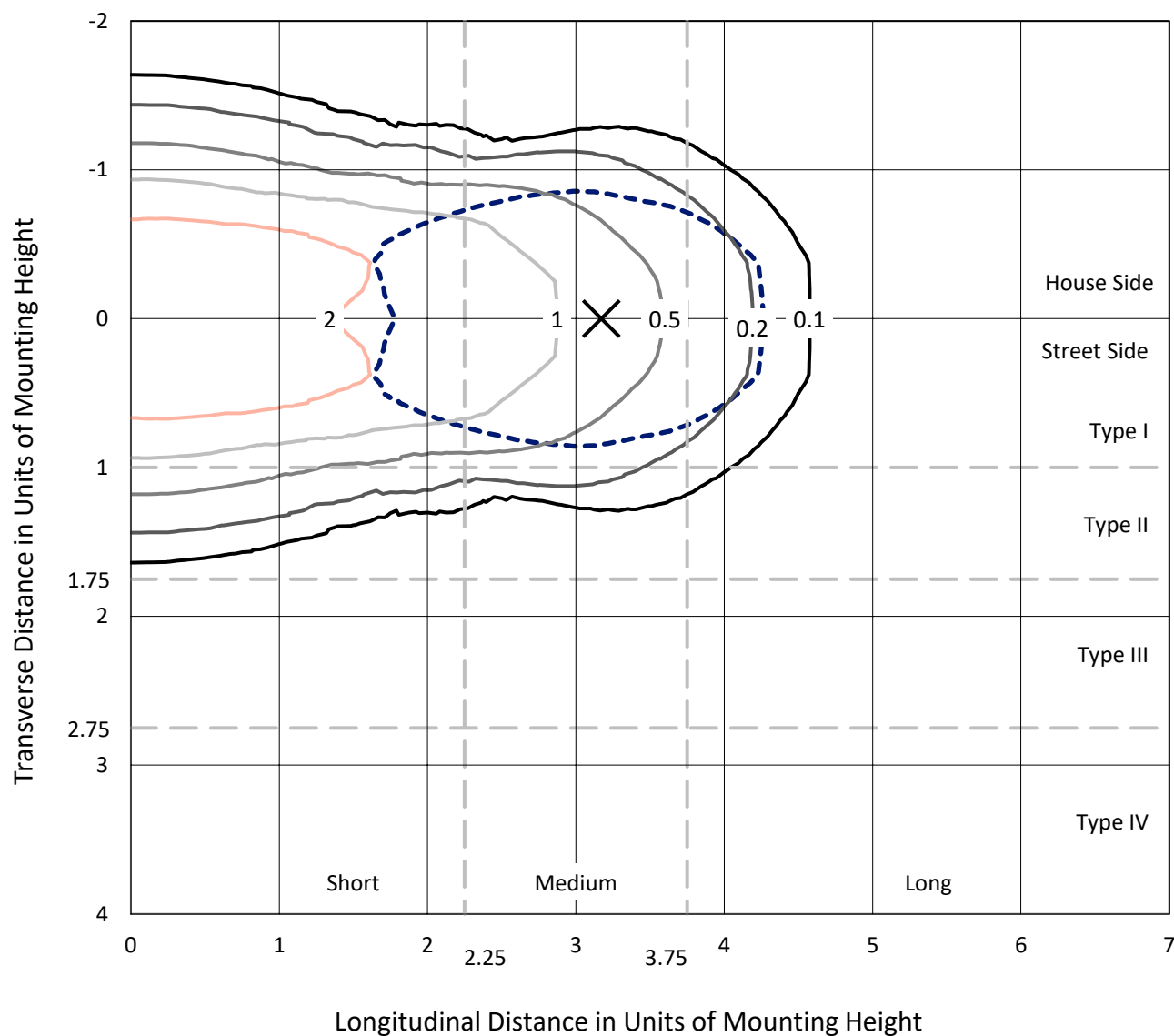
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

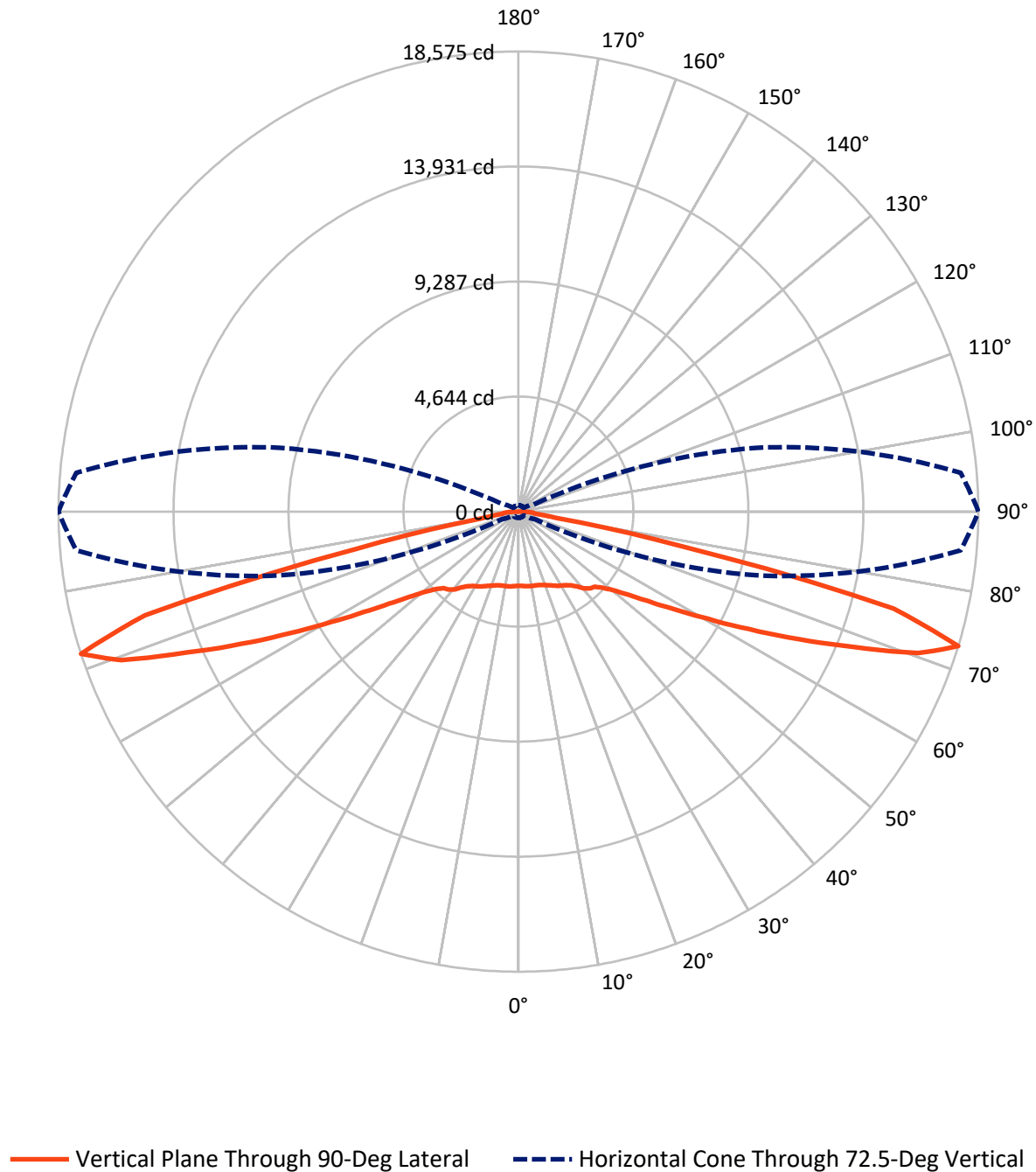


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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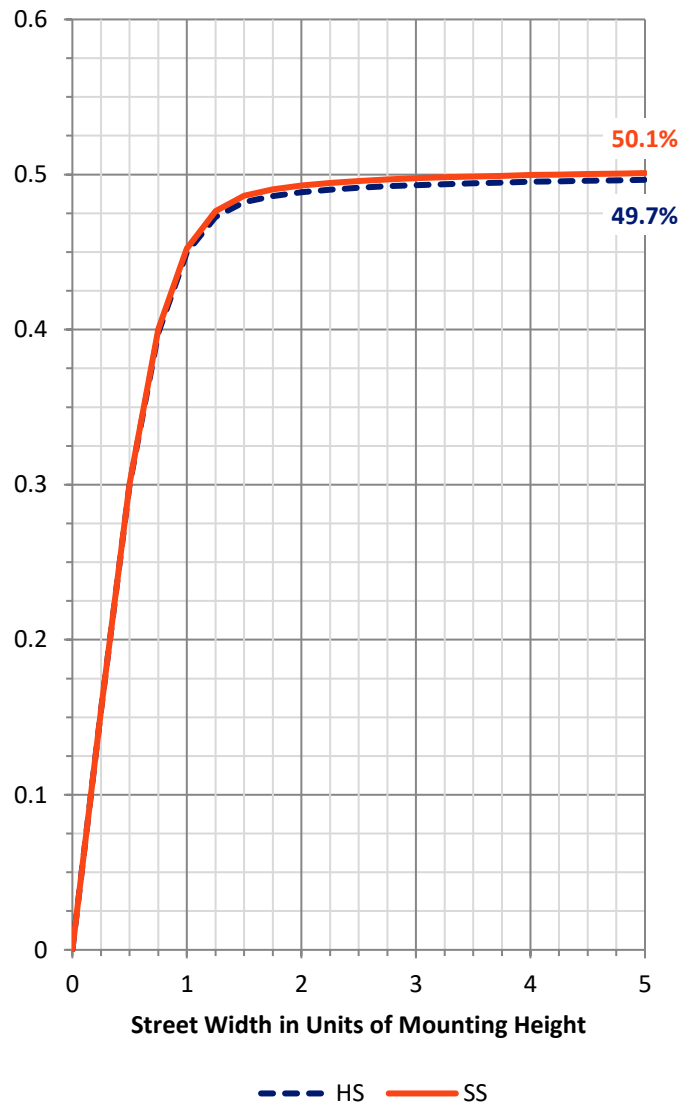
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8033.4	0.0	8033.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8033.4	0.0	8033.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	16066.9	0.0	16066.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.1	1.8
10°-20°	890.1	5.5
20°-30°	1484.1	9.2
30°-40°	2041.2	12.7
40°-50°	2492.8	15.5
50°-60°	2883.2	17.9
60°-70°	3437.7	21.4
70°-80°	2399.3	14.9
80°-90°	147.4	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°	16066.9	100.0
0°-180°	16066.9	100.0

Coefficient of Utilization



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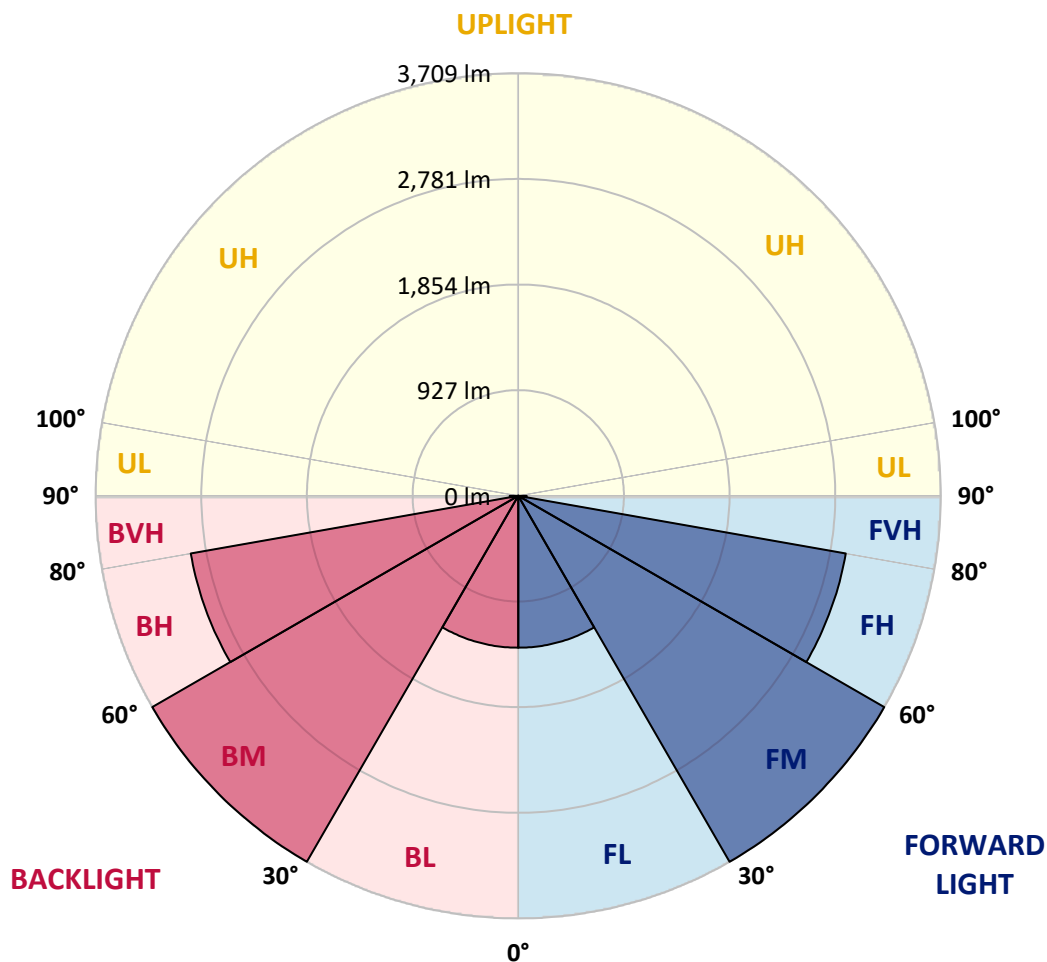
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1332.7	8.3			
FM	(30°-60°)	3708.6	23.1			
FH	(60°-80°)	2918.5	18.2			G2/5000
FVH	(80°-90°)	73.7	0.5			G1/100
BL	(0°-30°)	1332.7	8.3	B3/2500		
BM	(30°-60°)	3708.6	23.1	B3/5000		
BH	(60°-80°)	2918.5	18.2	B4/5000		G4/5000
BVH	(80°-90°)	73.7	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3002.2	3002.2	3002.2	3002.2	3002.2	3002.2	3002.2	3002.2	3002.2	3002.2	3002.2
2.5°	3004.8	3008.3	3008.3	3005.7	3011.7	3006.5	3006.5	3004.0	3006.5	3004.0	3004.0
5°	3020.2	3024.5	3026.2	3025.3	3033.0	3028.8	3028.8	3025.3	3026.2	3023.6	3023.6
7.5°	3049.3	3055.2	3058.6	3062.9	3074.0	3068.8	3065.5	3055.2	3050.9	3044.1	3044.1
10°	3058.6	3065.5	3076.5	3098.8	3124.4	3125.2	3115.0	3089.4	3069.8	3054.4	3051.8
12.5°	3029.6	3039.0	3062.1	3107.3	3164.5	3187.5	3171.4	3128.6	3090.2	3062.9	3058.6
15°	2992.9	3003.1	3038.1	3106.5	3190.9	3244.7	3243.1	3186.7	3125.2	3082.5	3075.7
17.5°	2935.7	2946.0	2996.3	3091.9	3211.4	3300.3	3324.2	3266.2	3179.9	3122.7	3113.2
20°	2832.4	2841.7	2911.7	3045.8	3218.3	3359.2	3421.6	3370.3	3262.7	3185.0	3170.5
22.5°	2698.3	2712.8	2794.8	2966.5	3202.1	3420.6	3532.6	3497.5	3359.2	3251.6	3231.9
25°	2554.8	2570.2	2665.8	2869.1	3160.3	3465.1	3664.1	3641.8	3468.5	3334.4	3307.1
27.5°	2431.0	2447.3	2551.4	2772.5	3095.3	3482.1	3793.8	3804.9	3600.8	3425.8	3396.7
30°	2333.7	2349.0	2460.0	2694.8	3011.7	3465.1	3907.4	3984.3	3735.7	3505.2	3463.4
32.5°	2226.9	2246.6	2363.5	2600.1	2912.6	3424.1	4006.4	4178.1	3892.0	3590.6	3537.7
35°	2092.0	2110.0	2233.0	2470.2	2782.8	3358.3	4089.2	4393.3	4115.7	3720.3	3661.5
37.5°	1928.0	1945.1	2067.2	2308.1	2653.9	3266.2	4152.5	4635.8	4382.2	3907.4	3828.8
40°	1763.3	1779.5	1893.9	2127.1	2499.4	3148.3	4174.6	4873.2	4687.8	4164.4	4080.7
42.5°	1612.1	1626.7	1731.6	1948.5	2326.0	2998.0	4145.6	5079.8	4961.9	4343.7	4236.1
45°	1472.9	1485.7	1578.8	1781.2	2145.8	2815.3	4058.5	5301.8	5288.1	4471.8	4326.6
47.5°	1314.2	1327.0	1423.4	1619.0	1965.6	2600.9	3910.8	5520.3	5741.5	4762.2	4594.8
50°	1120.3	1131.4	1230.4	1431.9	1778.7	2373.0	3705.9	5692.0	6313.6	5201.9	4991.9
52.5°	890.6	902.5	999.1	1200.6	1556.7	2127.9	3436.0	5803.9	6974.5	5844.0	5585.2
55°	662.7	671.2	754.8	935.8	1281.7	1848.7	3097.9	5835.4	7724.3	6721.7	6398.2
57.5°	480.7	485.8	539.7	674.6	971.7	1499.5	2687.1	5753.5	8616.6	7847.2	7440.0
60°	389.4	391.0	407.3	467.1	675.5	1104.9	2191.0	5471.7	9584.9	9298.0	8784.8
62.5°	353.5	353.5	357.8	374.0	456.8	729.2	1590.8	4887.6	10623.2	11131.3	10443.9
65°	328.7	328.7	330.5	338.1	360.4	464.5	1004.2	3936.4	11498.4	13278.8	12409.6
67.5°	306.6	307.4	306.6	309.1	322.0	343.3	582.3	2718.8	11969.7	15504.0	14565.6
70°	283.5	285.2	281.0	281.0	291.2	292.0	364.6	1490.9	11578.7	17368.9	17122.1
72.5°	256.1	258.7	251.9	250.2	257.9	254.5	274.1	715.6	9941.0	17925.6	18574.6
75°	232.3	235.6	220.3	216.1	216.1	213.5	222.8	367.2	6452.0	14622.9	15640.7
77.5°	210.9	217.7	193.0	179.3	175.9	168.2	181.8	224.6	2822.1	6865.2	6722.7
80°	174.1	183.6	158.8	142.6	136.6	128.1	143.5	157.1	839.4	1594.2	1526.7
82.5°	129.8	134.1	112.7	101.6	96.5	90.5	107.6	109.3	273.3	564.5	637.9
85°	82.8	84.6	69.2	59.8	57.2	54.6	68.3	59.8	104.1	415.0	602.8
87.5°	29.0	33.3	26.4	23.9	25.6	21.3	31.6	17.9	29.0	292.8	363.0
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)