

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: P966674

Luminaire Tested: **NAV-SB4C-735-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966674
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-SB4C-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30434.3 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

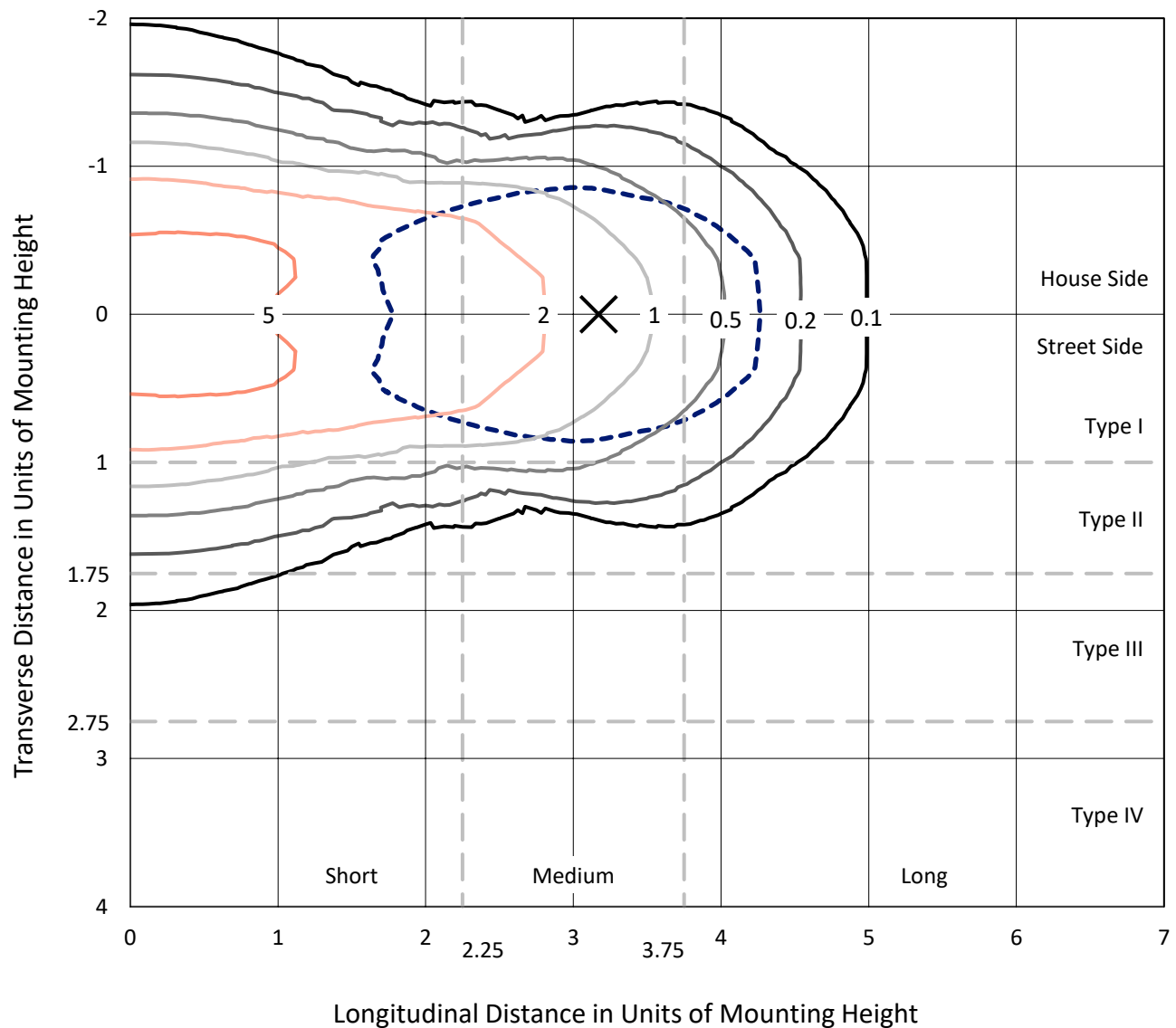
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P966674
CATALOG NUMBER: NAV-SB4C-735-U-T1

Iso-Footcandle Lines of Horizontal Illumination

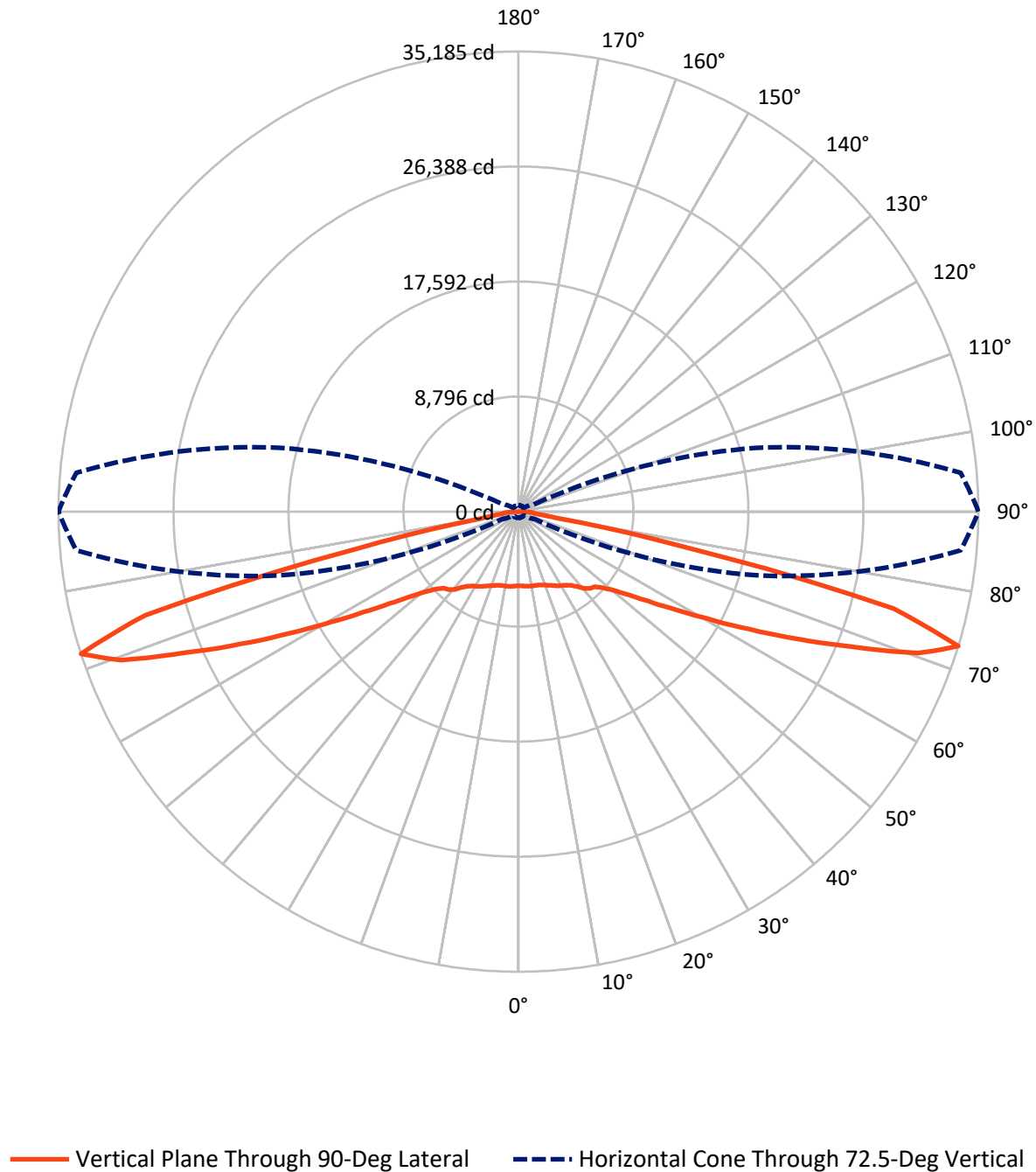
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
Type I - Short - N/A

REPORT NUMBER: P966674
CATALOG NUMBER: NAV-SB4C-735-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P966674

CATALOG NUMBER: NAV-SB4C-735-U-T1

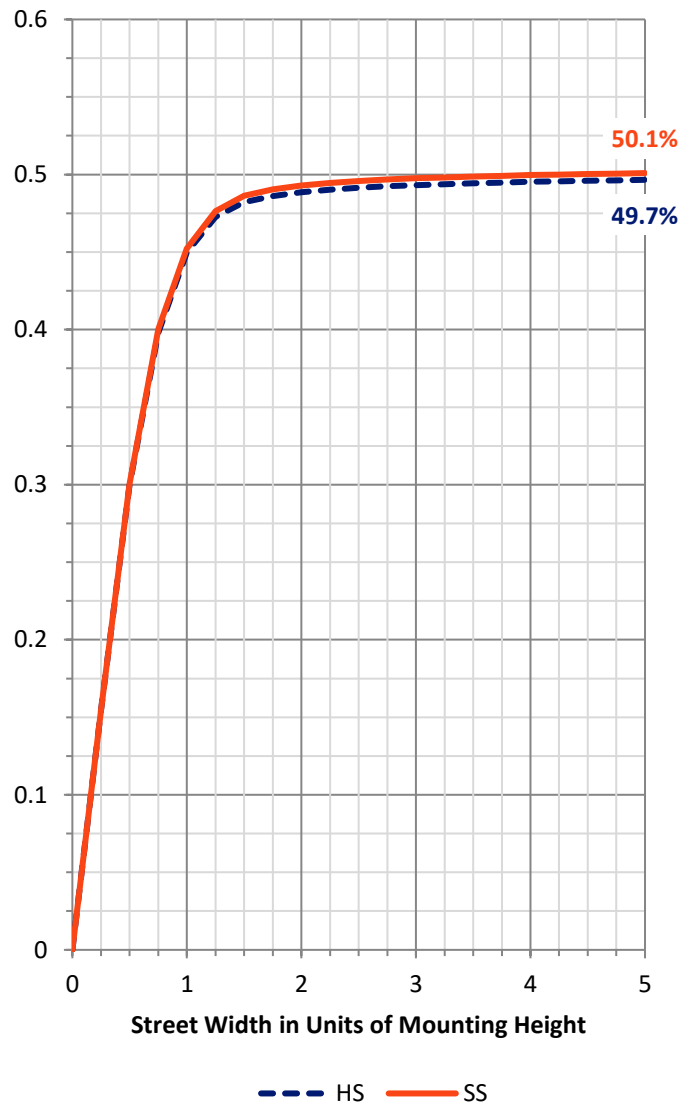
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15217.2	0.0	15217.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15217.2	0.0	15217.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	30434.3	0.0	30434.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.4	1.8
10°-20°	1686.0	5.5
20°-30°	2811.3	9.2
30°-40°	3866.4	12.7
40°-50°	4721.9	15.5
50°-60°	5461.4	17.9
60°-70°	6511.8	21.4
70°-80°	4544.8	14.9
80°-90°	279.2	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°	30434.3	100.0
0°-180°	30434.3	100.0

Coefficient of Utilization



REPORT NUMBER: P966674

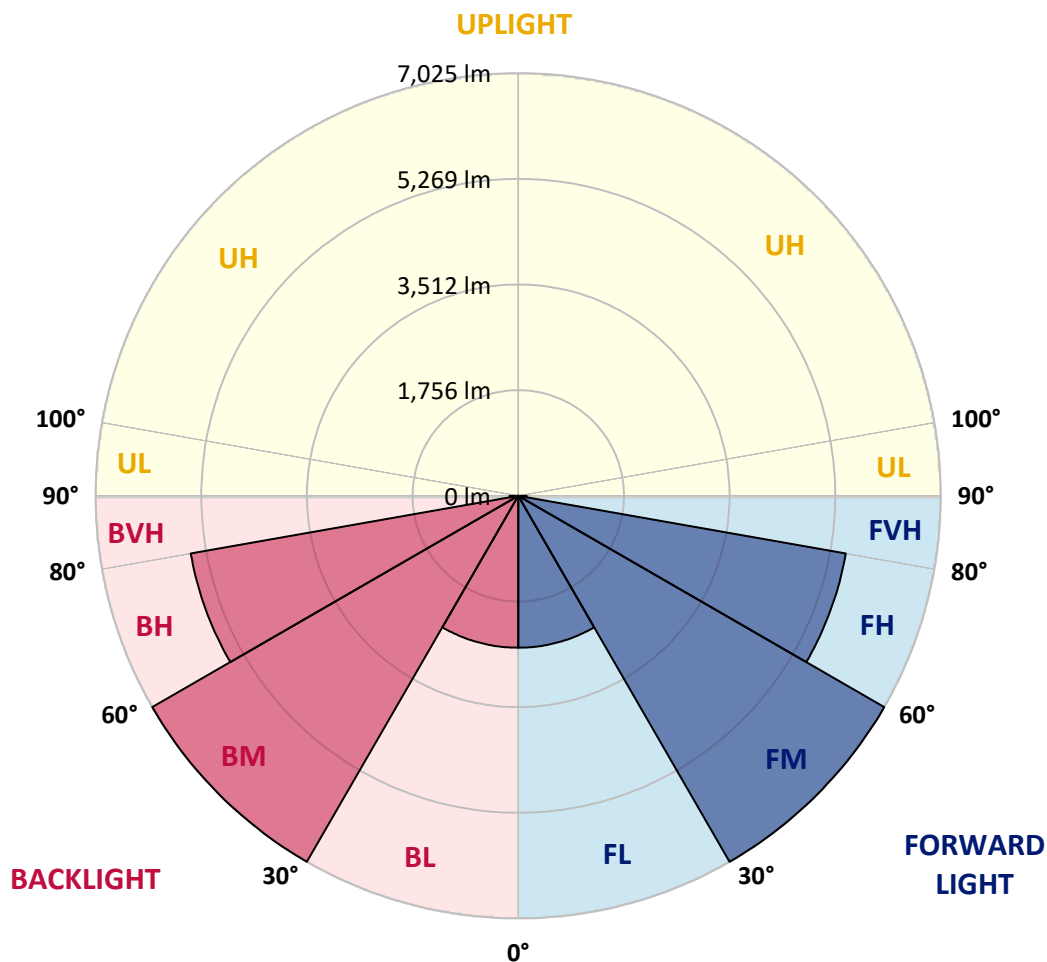
CATALOG NUMBER: NAV-SB4C-735-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2524.4	8.3			
FM	(30°-60°)	7024.9	23.1			
FH	(60°-80°)	5528.3	18.2			G3/7500
FVH	(80°-90°)	139.6	0.5			G2/225
BL	(0°-30°)	2524.4	8.3	B4/5000		
BM	(30°-60°)	7024.9	23.1	B4/8500		
BH	(60°-80°)	5528.3	18.2	B5		G5
BVH	(80°-90°)	139.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short



REPORT NUMBER: P966674

CATALOG NUMBER: NAV-SB4C-735-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5687.0	5687.0	5687.0	5687.0	5687.0	5687.0	5687.0	5687.0	5687.0	5687.0	5687.0
2.5°	5691.8	5698.3	5698.3	5693.5	5704.7	5695.1	5695.1	5690.2	5695.1	5690.2	5690.2
5°	5720.9	5729.0	5732.2	5730.7	5745.2	5737.1	5737.1	5730.7	5732.2	5727.4	5727.4
7.5°	5776.0	5787.3	5793.7	5801.8	5822.8	5813.1	5806.6	5787.3	5779.2	5766.2	5766.2
10°	5793.7	5806.6	5827.7	5869.8	5918.2	5919.9	5900.5	5851.9	5814.7	5785.6	5780.8
12.5°	5738.8	5756.5	5800.2	5886.0	5994.3	6038.0	6007.2	5926.3	5853.6	5801.8	5793.7
15°	5669.2	5688.5	5754.9	5884.3	6044.4	6146.3	6143.1	6036.3	5919.9	5839.0	5826.1
17.5°	5560.8	5580.2	5675.6	5856.8	6083.3	6251.5	6296.8	6186.8	6023.4	5915.1	5897.2
20°	5365.1	5382.9	5515.5	5769.4	6096.2	6363.1	6481.2	6384.1	6180.3	6033.2	6005.6
22.5°	5111.2	5138.6	5293.9	5619.0	6065.4	6479.5	6691.4	6625.1	6363.1	6159.2	6122.0
25°	4839.4	4868.5	5049.7	5434.7	5986.2	6563.6	6940.5	6898.5	6570.1	6316.2	6264.4
27.5°	4604.9	4635.7	4833.0	5251.9	5863.3	6596.0	7186.4	7207.4	6820.8	6489.3	6434.2
30°	4420.5	4449.6	4659.9	5104.7	5704.7	6563.6	7401.4	7547.1	7076.4	6639.6	6560.4
32.5°	4218.3	4255.5	4477.1	4925.1	5517.2	6486.0	7589.1	7914.2	7372.3	6801.4	6701.1
35°	3962.8	3996.7	4229.7	4679.3	5271.3	6361.5	7746.0	8321.8	7796.2	7047.3	6935.7
37.5°	3652.2	3684.6	3915.8	4371.9	5027.0	6186.8	7865.6	8781.2	8300.8	7401.4	7252.7
40°	3340.1	3370.8	3587.5	4029.1	4734.3	5963.6	7907.8	9230.8	8879.8	7888.3	7729.8
42.5°	3053.8	3081.3	3280.2	3691.0	4406.0	5678.9	7852.7	9622.2	9399.0	8228.0	8024.2
45°	2790.2	2814.3	2990.6	3374.0	4064.6	5332.8	7687.8	10042.7	10016.9	8470.6	8195.6
47.5°	2489.2	2513.5	2696.3	3066.7	3723.4	4926.8	7408.0	10456.8	10875.8	9020.5	8703.5
50°	2122.1	2143.2	2330.7	2712.5	3369.2	4494.9	7019.7	10782.0	11959.5	9853.5	9455.6
52.5°	1687.0	1709.7	1892.5	2274.2	2948.6	4030.7	6508.6	10993.8	13211.3	11069.9	10579.7
55°	1255.1	1271.3	1429.9	1772.7	2427.8	3501.8	5868.1	11053.7	14631.5	12732.7	12119.6
57.5°	910.6	920.3	1022.2	1277.8	1840.7	2840.3	5090.2	10898.4	16321.7	14864.4	14092.9
60°	737.6	740.8	771.5	884.8	1279.4	2092.9	4150.4	10364.7	18155.9	17612.5	16640.4
62.5°	669.6	669.6	677.7	708.5	865.3	1381.3	3013.3	9258.3	20122.8	21085.2	19783.1
65°	622.7	622.7	626.0	640.5	682.5	879.9	1902.1	7456.5	21780.6	25153.0	23506.4
67.5°	580.7	582.3	580.7	585.5	609.8	650.3	1103.1	5150.0	22673.5	29368.1	27590.5
70°	537.0	540.3	532.2	532.2	551.6	553.2	690.6	2824.1	21932.6	32900.7	32433.2
72.5°	485.2	490.1	477.1	474.0	488.5	482.0	519.2	1355.5	18830.4	33955.2	35184.5
75°	439.9	446.4	417.3	409.2	409.2	404.4	422.2	695.5	12221.5	27698.9	29626.9
77.5°	399.5	412.5	365.5	339.7	333.2	318.7	344.5	425.4	5345.7	13004.4	12734.2
80°	329.9	347.8	300.8	270.1	258.8	242.6	271.7	297.7	1590.0	3019.8	2892.0
82.5°	245.9	253.9	213.5	192.5	182.8	171.5	203.8	207.0	517.6	1069.2	1208.3
85°	156.9	160.1	131.0	113.3	108.3	103.5	129.4	113.3	197.3	786.1	1142.0
87.5°	55.0	63.0	50.1	45.3	48.5	40.5	59.9	33.9	55.0	554.8	687.5
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)