

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: P968926

Luminaire Tested: **NAV-SB5C-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-830-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35879.1 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 249.5
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

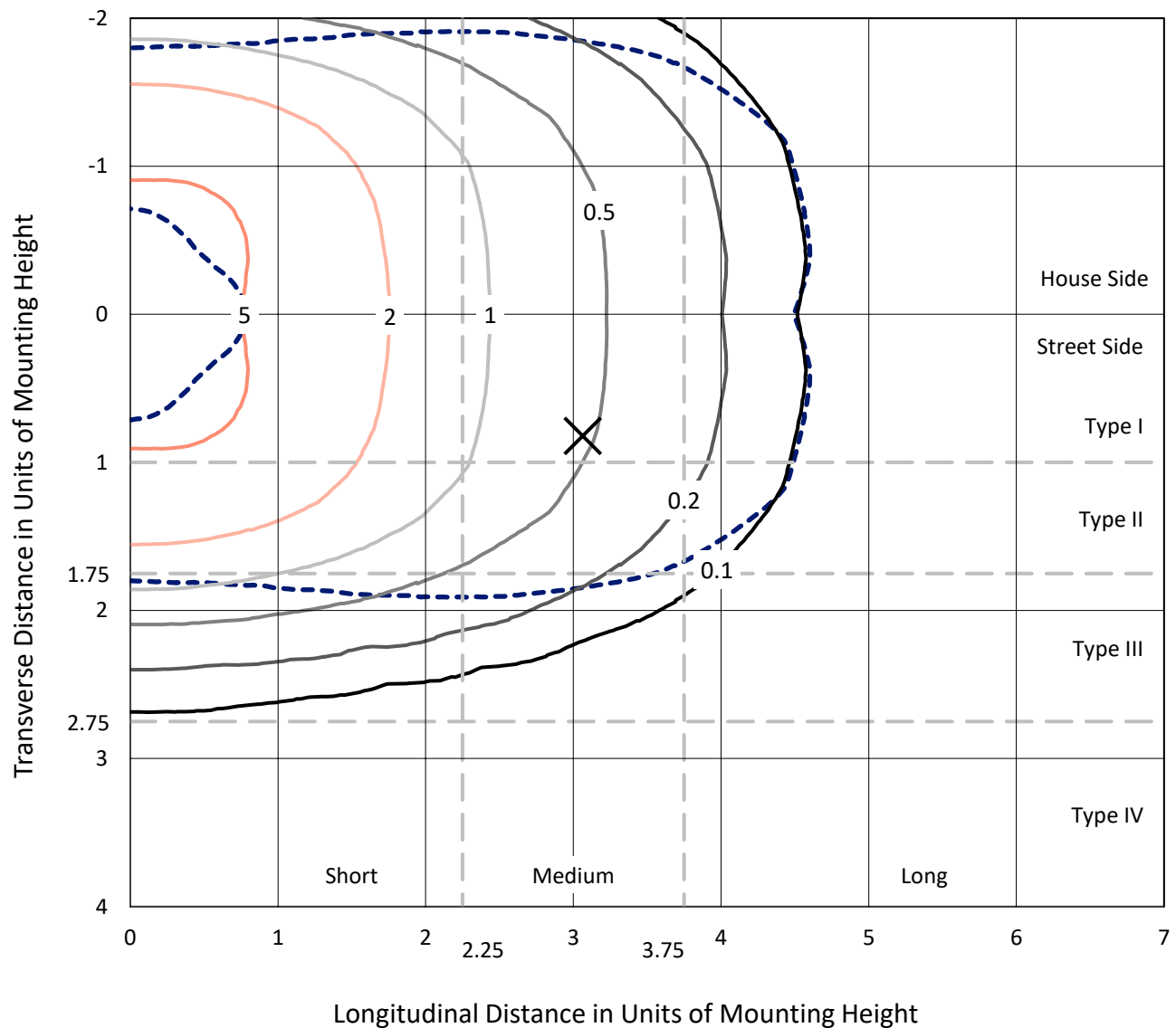


REPORT NUMBER: P968926

CATALOG NUMBER: NAV-SB5C-830-U-RW

Iso-Footcandle Lines of Horizontal Illumination

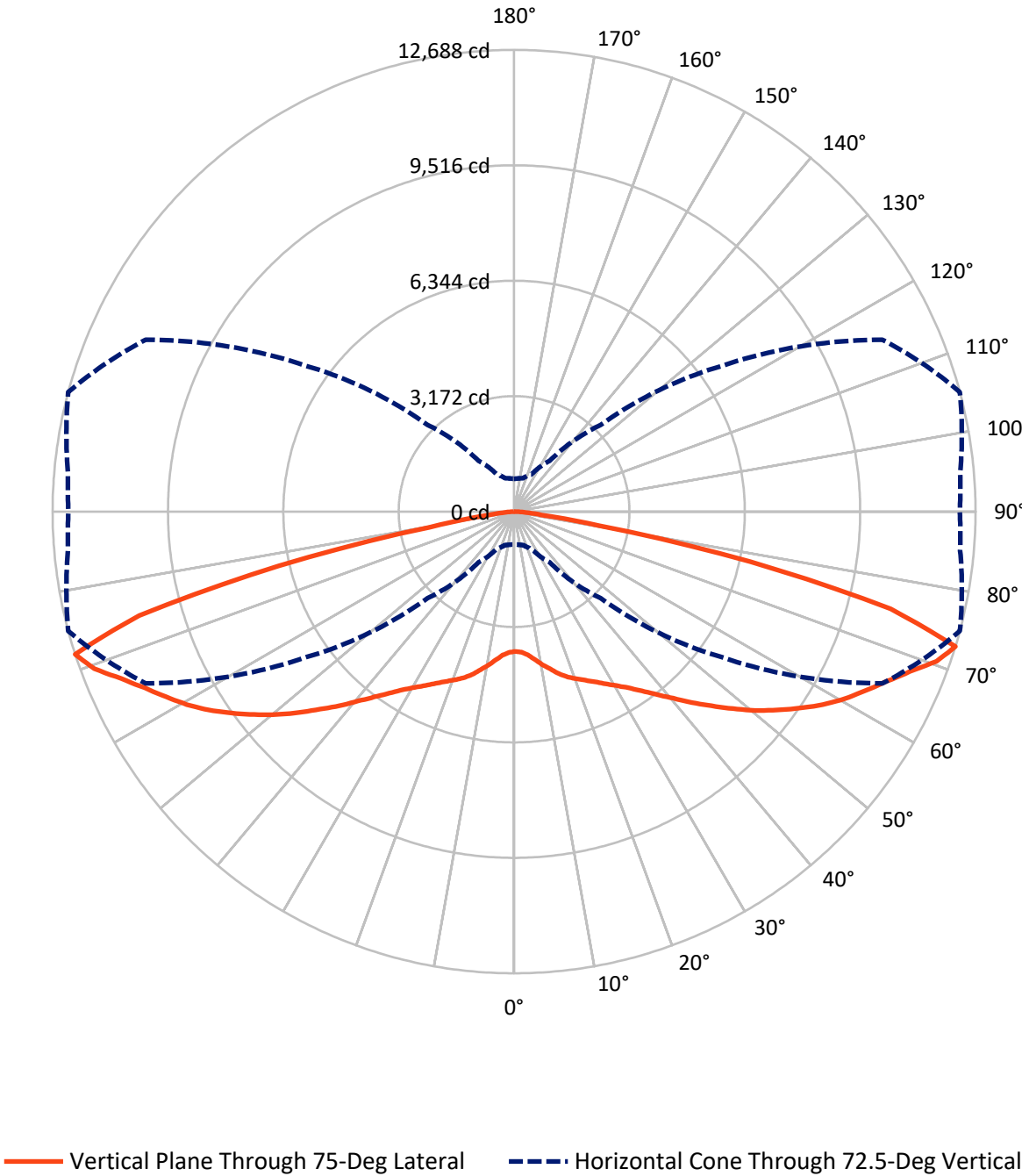
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
Type III - Medium - N/A

REPORT NUMBER: P968926
CATALOG NUMBER: NAV-SB5C-830-U-RW

Luminous Intensity Polar Plot



REPORT NUMBER: P968926

CATALOG NUMBER: NAV-SB5C-830-U-RW

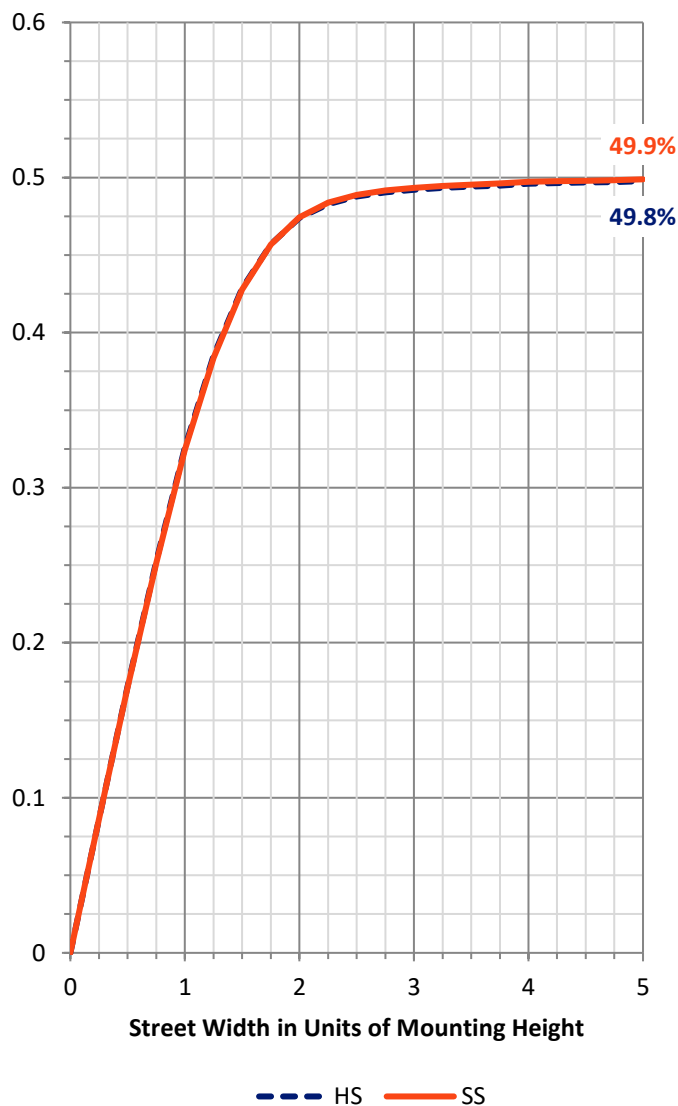
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17939.6	0.0	17939.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17939.6	0.0	17939.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	35879.1	0.0	35879.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.5	1.0
10°-20°	1241.7	3.5
20°-30°	2399.4	6.7
30°-40°	4051.5	11.3
40°-50°	6425.2	17.9
50°-60°	8602.6	24.0
60°-70°	8186.9	22.8
70°-80°	4272.1	11.9
80°-90°	323.4	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°	35879.1	100.0
0°-180°	35879.1	100.0

Coefficient of Utilization



REPORT NUMBER: P968926

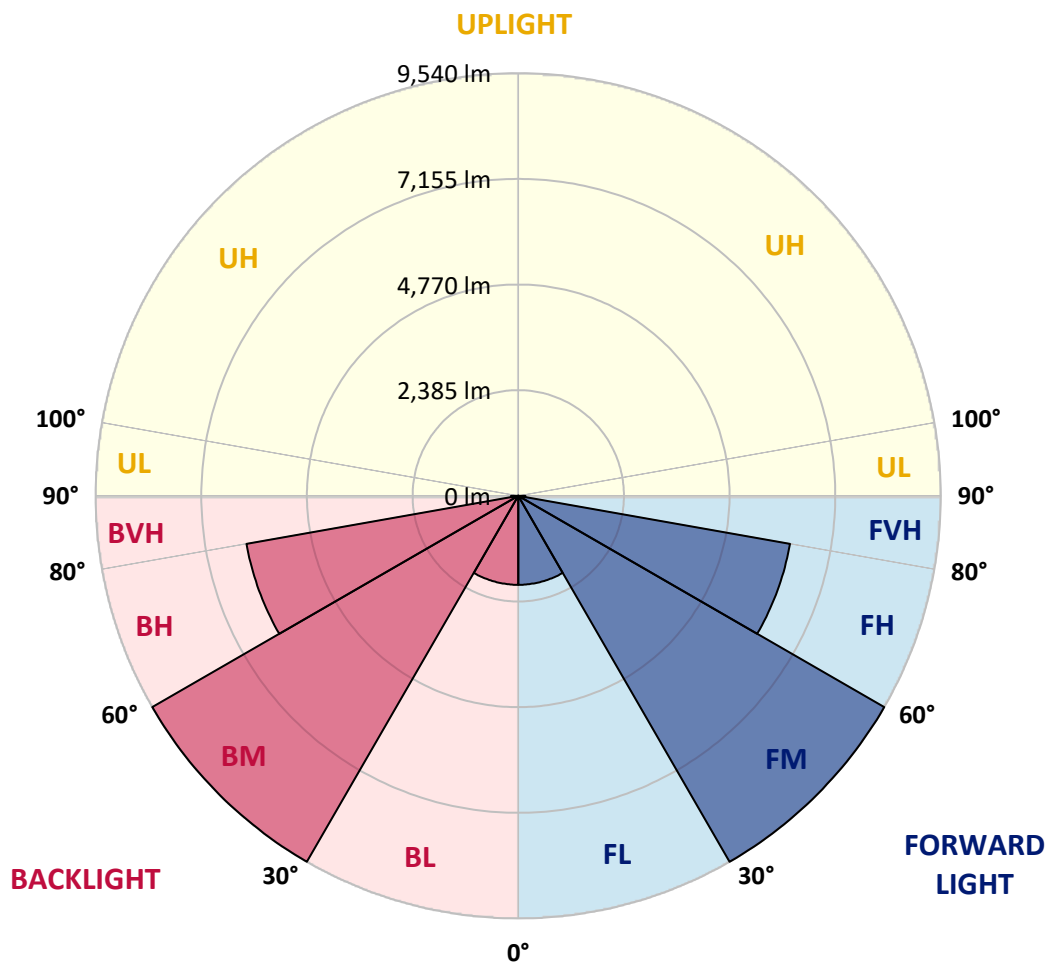
CATALOG NUMBER: NAV-SB5C-830-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2008.8	5.6			
FM	(30°-60°)	9539.6	26.6			
FH	(60°-80°)	6229.5	17.4			G3/7500
FVH	(80°-90°)	161.7	0.5			G2/225
BL	(0°-30°)	2008.8	5.6	B3/2500		
BM	(30°-60°)	9539.6	26.6	B5		
BH	(60°-80°)	6229.5	17.4	B5		G5
BVH	(80°-90°)	161.7	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 III Medium



REPORT NUMBER: P968926

CATALOG NUMBER: NAV-SB5C-830-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3843.3	3843.3	3843.3	3843.3	3843.3	3843.3	3843.3	3843.3	3843.3	3843.3	3843.3
2.5°	3843.3	3839.6	3843.3	3846.9	3845.1	3845.1	3854.3	3859.7	3870.8	3869.0	3867.1
5°	3817.6	3815.8	3830.4	3846.9	3859.7	3881.8	3909.2	3929.4	3955.1	3960.5	3960.5
7.5°	3804.8	3799.4	3825.0	3854.3	3894.6	3949.5	4002.6	4057.7	4101.6	4116.2	4119.9
10°	3814.0	3815.8	3850.6	3905.6	3969.7	4046.6	4121.7	4215.2	4277.4	4292.1	4306.7
12.5°	3856.2	3852.5	3911.1	3999.0	4087.0	4184.0	4272.0	4374.5	4442.3	4477.1	4491.8
15°	3933.0	3925.7	4008.2	4138.2	4266.5	4380.0	4451.5	4548.5	4627.4	4671.3	4687.8
17.5°	4024.7	4028.4	4136.4	4304.9	4473.5	4601.7	4669.5	4718.9	4779.4	4817.8	4836.2
20°	4185.9	4193.2	4314.1	4513.8	4706.1	4852.7	4907.6	4889.2	4905.8	4935.1	4957.1
22.5°	4402.1	4405.7	4541.3	4757.4	4959.0	5120.1	5156.8	5081.6	5035.8	5056.0	5070.7
25°	4653.0	4676.8	4812.4	5034.0	5241.0	5394.9	5411.4	5297.8	5184.2	5189.8	5198.9
27.5°	4959.0	4980.9	5118.2	5338.1	5548.7	5682.5	5680.7	5528.6	5361.9	5319.7	5332.7
30°	5290.4	5314.3	5455.4	5682.5	5878.5	5995.7	5970.1	5788.8	5550.6	5471.9	5481.0
32.5°	5684.3	5699.0	5841.9	6069.0	6250.3	6343.8	6290.7	6067.2	5770.4	5680.7	5702.7
35°	6160.7	6182.6	6288.9	6503.2	6662.6	6739.5	6649.8	6386.0	6052.5	5951.8	5966.4
37.5°	6704.7	6690.1	6810.9	7001.5	7133.4	7180.9	7058.3	6745.0	6375.0	6255.9	6277.8
40°	7272.6	7265.3	7397.1	7580.4	7651.8	7681.0	7499.7	7157.2	6746.9	6618.6	6660.8
42.5°	7787.3	7781.8	7959.5	8162.9	8249.0	8216.0	7987.0	7594.9	7177.4	7030.8	7067.4
45°	8199.5	8192.2	8410.2	8696.0	8864.5	8809.6	8501.8	8078.6	7613.3	7461.3	7496.0
47.5°	8516.4	8520.1	8754.6	9108.2	9403.0	9423.2	9027.5	8571.4	8093.3	7921.1	7972.3
50°	8745.4	8756.4	9007.4	9399.4	9802.4	9980.1	9564.3	9077.0	8589.7	8395.6	8454.1
52.5°	8802.2	8822.4	9124.7	9584.5	10058.8	10397.8	10110.2	9562.4	9060.5	8875.5	8923.1
55°	8499.9	8540.2	8923.1	9569.8	10216.4	10672.6	10590.1	10055.2	9535.0	9344.4	9397.6
57.5°	7805.7	7862.5	8309.5	9154.0	10181.6	10861.2	10962.0	10527.9	10009.4	9826.3	9868.4
60°	6833.0	6900.7	7329.4	8250.8	9690.7	10930.8	11224.0	10987.7	10445.4	10267.7	10306.2
62.5°	5365.6	5453.5	5966.4	7047.3	8653.9	10606.6	11447.4	11403.4	10837.4	10615.8	10641.4
65°	3442.2	3535.5	4075.9	5352.8	7270.7	9613.7	11517.1	11808.3	11251.4	10941.9	10980.3
67.5°	2075.5	2117.6	2385.1	3244.2	5314.3	8117.1	10927.2	12257.2	11735.0	11350.3	11379.7
70°	1328.1	1352.0	1511.3	1905.2	3004.3	5922.4	9465.4	12341.4	12321.2	11769.9	11766.2
72.5°	901.3	908.7	950.8	1128.4	1700.0	3365.2	6981.3	11172.7	12687.7	12310.2	12251.6
75°	659.5	699.8	767.5	798.7	965.4	1681.7	4000.9	7849.7	10692.7	10857.6	10458.3
77.5°	491.0	492.8	586.2	622.8	688.8	895.7	1692.7	4381.9	6638.7	6970.3	6217.4
80°	415.8	393.8	392.1	501.9	518.4	558.7	756.6	1513.1	2377.8	1441.7	1090.0
82.5°	346.2	322.4	291.3	392.1	353.5	342.6	327.9	615.5	756.6	371.9	316.9
85°	241.8	230.8	219.9	256.5	201.5	172.2	157.5	287.6	318.8	157.5	139.2
87.5°	104.4	108.0	109.9	113.6	84.3	60.5	60.5	80.6	80.6	62.3	45.8
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)