

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: P965186

Luminaire Tested: **NAV-SB3D-760-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965186
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-SB3D-760-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32753.9 lumens
Efficiency: N/A
Efficacy: 150.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

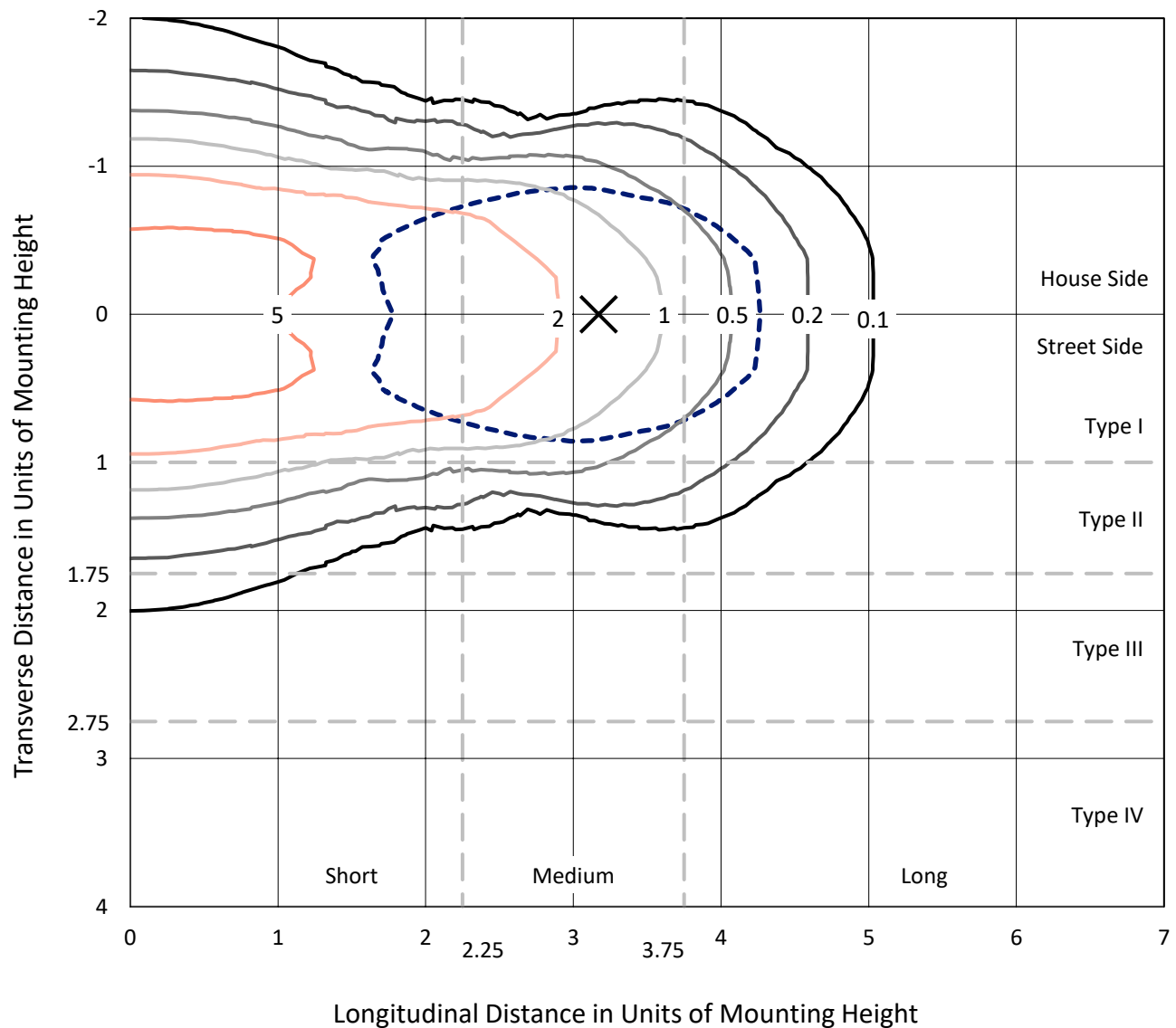
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P965186
CATALOG NUMBER: NAV-SB3D-760-U-T1

Iso-Footcandle Lines of Horizontal Illumination

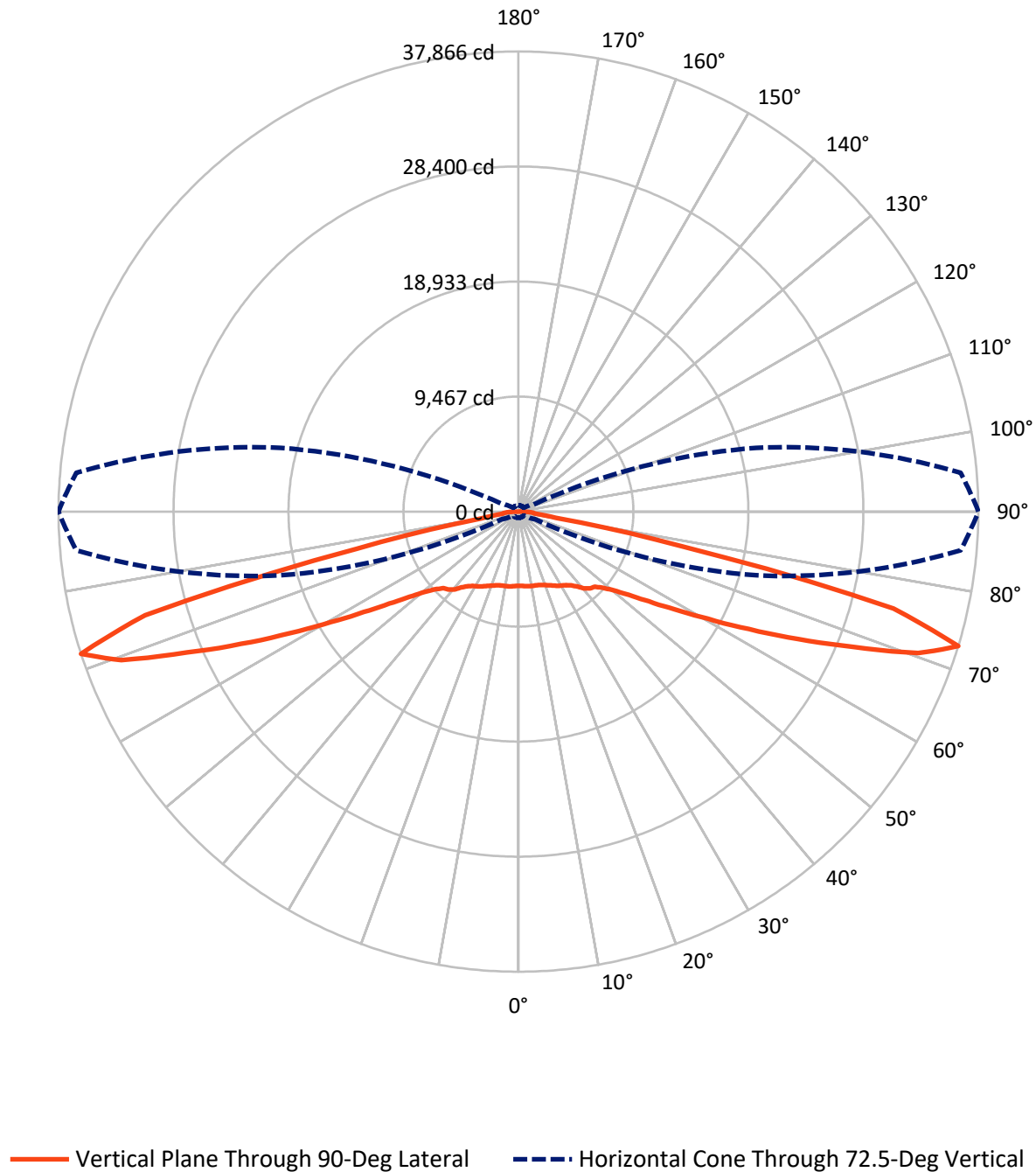
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
Type I - Short - N/A

REPORT NUMBER: P965186
CATALOG NUMBER: NAV-SB3D-760-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P965186

CATALOG NUMBER: NAV-SB3D-760-U-T1

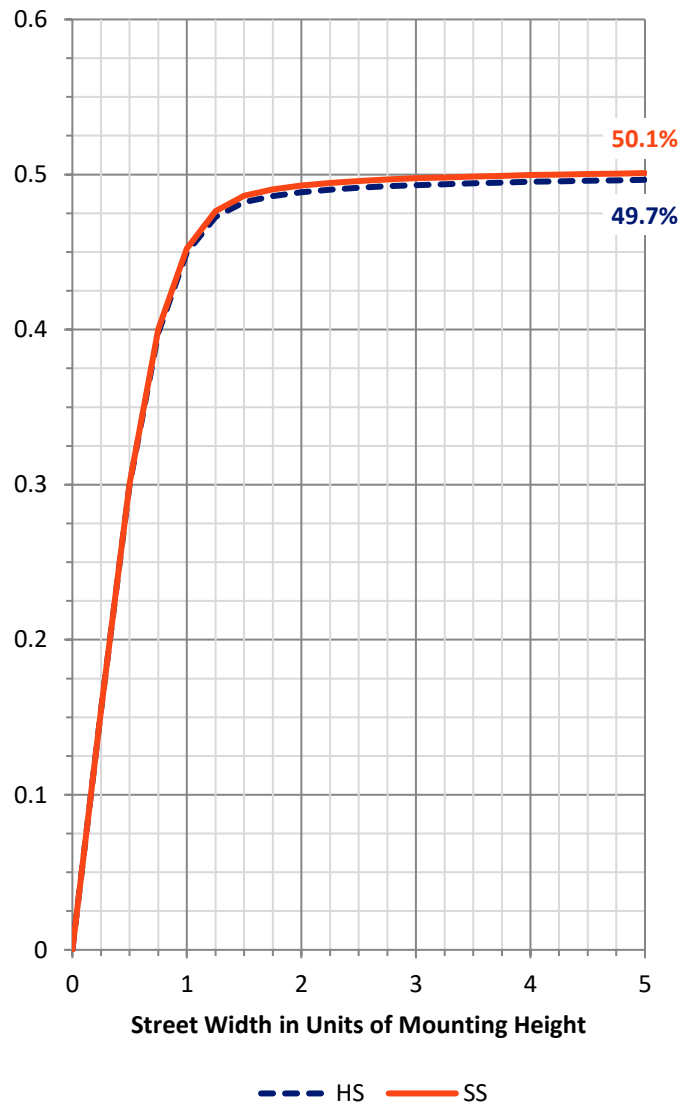
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16376.9	0.0	16376.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16376.9	0.0	16376.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	32753.9	0.0	32753.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.4	1.8
10°-20°	1814.5	5.5
20°-30°	3025.6	9.2
30°-40°	4161.1	12.7
40°-50°	5081.8	15.5
50°-60°	5877.7	17.9
60°-70°	7008.1	21.4
70°-80°	4891.2	14.9
80°-90°	300.4	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°	32753.9	100.0
0°-180°	32753.9	100.0

Coefficient of Utilization



REPORT NUMBER: P965186

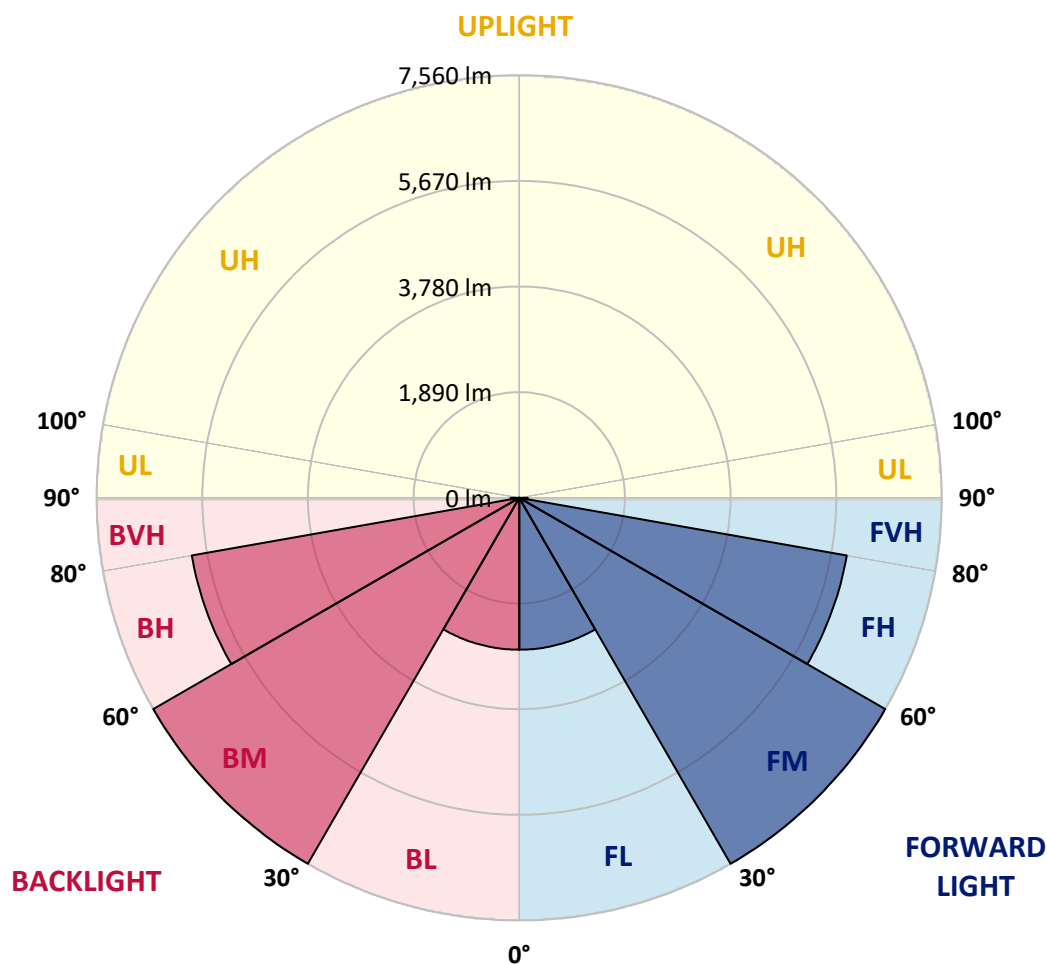
CATALOG NUMBER: NAV-SB3D-760-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2716.8	8.3			
FM	(30°-60°)	7560.3	23.1			
FH	(60°-80°)	5949.7	18.2			G3/7500
FVH	(80°-90°)	150.2	0.5			G2/225
BL	(0°-30°)	2716.8	8.3	B4/5000		
BM	(30°-60°)	7560.3	23.1	B4/8500		
BH	(60°-80°)	5949.7	18.2	B5		G5
BVH	(80°-90°)	150.2	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: P965186

CATALOG NUMBER: NAV-SB3D-760-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6120.4	6120.4	6120.4	6120.4	6120.4	6120.4	6120.4	6120.4	6120.4	6120.4	6120.4
2.5°	6125.6	6132.6	6132.6	6127.3	6139.5	6129.1	6129.1	6123.9	6129.1	6123.9	6123.9
5°	6157.0	6165.7	6169.2	6167.4	6183.1	6174.4	6174.4	6167.4	6169.2	6163.9	6163.9
7.5°	6216.1	6228.3	6235.3	6244.0	6266.6	6256.2	6249.2	6228.3	6219.6	6205.7	6205.7
10°	6235.3	6249.2	6271.9	6317.1	6369.3	6371.1	6350.2	6298.0	6257.9	6226.6	6221.3
12.5°	6176.1	6195.3	6242.2	6334.5	6451.1	6498.2	6465.1	6378.1	6299.8	6244.0	6235.3
15°	6101.2	6122.1	6193.6	6332.8	6505.1	6614.7	6611.2	6496.4	6371.1	6284.1	6270.1
17.5°	5984.7	6005.5	6108.2	6303.1	6546.9	6727.9	6776.7	6658.3	6482.5	6365.9	6346.7
20°	5774.0	5793.2	5935.9	6209.1	6560.8	6848.0	6975.1	6870.7	6651.3	6493.0	6463.3
22.5°	5500.7	5530.3	5697.4	6047.3	6527.7	6973.4	7201.4	7130.0	6848.0	6628.7	6588.7
25°	5208.2	5239.6	5434.5	5848.9	6442.4	7063.9	7469.5	7424.2	7070.9	6797.6	6741.8
27.5°	4955.9	4989.0	5201.3	5652.2	6310.1	7098.7	7734.0	7756.7	7340.6	6983.8	6924.6
30°	4757.4	4788.7	5015.0	5493.8	6139.5	7063.9	7965.6	8122.2	7615.6	7145.7	7060.4
32.5°	4539.8	4579.9	4818.3	5300.5	5937.6	6980.4	8167.5	8517.4	7934.2	7319.7	7211.8
35°	4264.8	4301.3	4552.0	5035.9	5673.1	6846.3	8336.3	8956.0	8390.3	7584.4	7464.3
37.5°	3930.6	3965.4	4214.3	4705.2	5410.2	6658.3	8465.2	9450.4	8933.4	7965.6	7805.5
40°	3594.6	3627.7	3861.0	4336.2	5095.1	6418.0	8510.5	9934.3	9556.6	8489.6	8318.9
42.5°	3286.5	3316.1	3530.2	3972.4	4741.8	6111.7	8451.2	10355.6	10115.4	8855.1	8635.7
45°	3002.7	3028.9	3218.6	3631.2	4374.5	5739.2	8273.7	10808.2	10780.3	9116.2	8820.3
47.5°	2678.9	2705.1	2901.8	3300.4	4007.1	5302.2	7972.6	11253.8	11704.7	9708.1	9366.9
50°	2283.8	2306.5	2508.4	2919.2	3625.9	4837.5	7554.8	11603.7	12870.9	10604.5	10176.3
52.5°	1815.6	1840.0	2036.7	2447.5	3173.4	4337.9	7004.7	11831.8	14218.3	11913.6	11386.1
55°	1350.8	1368.2	1538.8	1907.8	2612.8	3768.7	6315.3	11896.2	15746.7	13703.0	13043.3
57.5°	980.0	990.5	1100.1	1375.1	1980.9	3056.8	5478.1	11729.1	17565.7	15997.3	15167.0
60°	793.8	797.2	830.4	952.2	1376.9	2252.5	4466.7	11154.6	19539.7	18954.8	17908.6
62.5°	720.7	720.7	729.4	762.4	931.3	1486.6	3243.0	9963.9	21656.4	22692.2	21290.9
65°	670.1	670.1	673.6	689.3	734.6	947.0	2047.1	8024.7	23440.6	27070.0	25298.0
67.5°	624.9	626.7	624.9	630.2	656.2	699.8	1187.2	5542.5	24401.6	31606.4	29693.3
70°	577.9	581.4	572.7	572.7	593.6	595.3	743.3	3039.3	23604.3	35408.2	34905.1
72.5°	522.2	527.5	513.5	510.0	525.7	518.8	558.7	1458.8	20265.6	36543.2	37866.1
75°	473.4	480.4	449.2	440.4	440.4	435.2	454.3	748.6	13153.0	29810.0	31885.0
77.5°	430.0	443.9	393.4	365.5	358.5	343.0	370.7	457.8	5753.1	13995.5	13704.8
80°	355.1	374.2	323.8	290.7	278.5	261.1	292.4	320.3	1711.1	3250.0	3112.4
82.5°	264.6	273.3	229.8	207.2	196.7	184.5	219.4	222.8	557.0	1150.7	1300.3
85°	168.8	172.3	141.0	121.9	116.6	111.4	139.3	121.9	212.4	846.0	1229.0
87.5°	59.1	67.9	53.9	48.8	52.2	43.6	64.4	36.6	59.1	597.1	739.8
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)