

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: P960335

Luminaire Tested: **NAV-SB1C-735-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-735-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8046.3 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 54.4
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

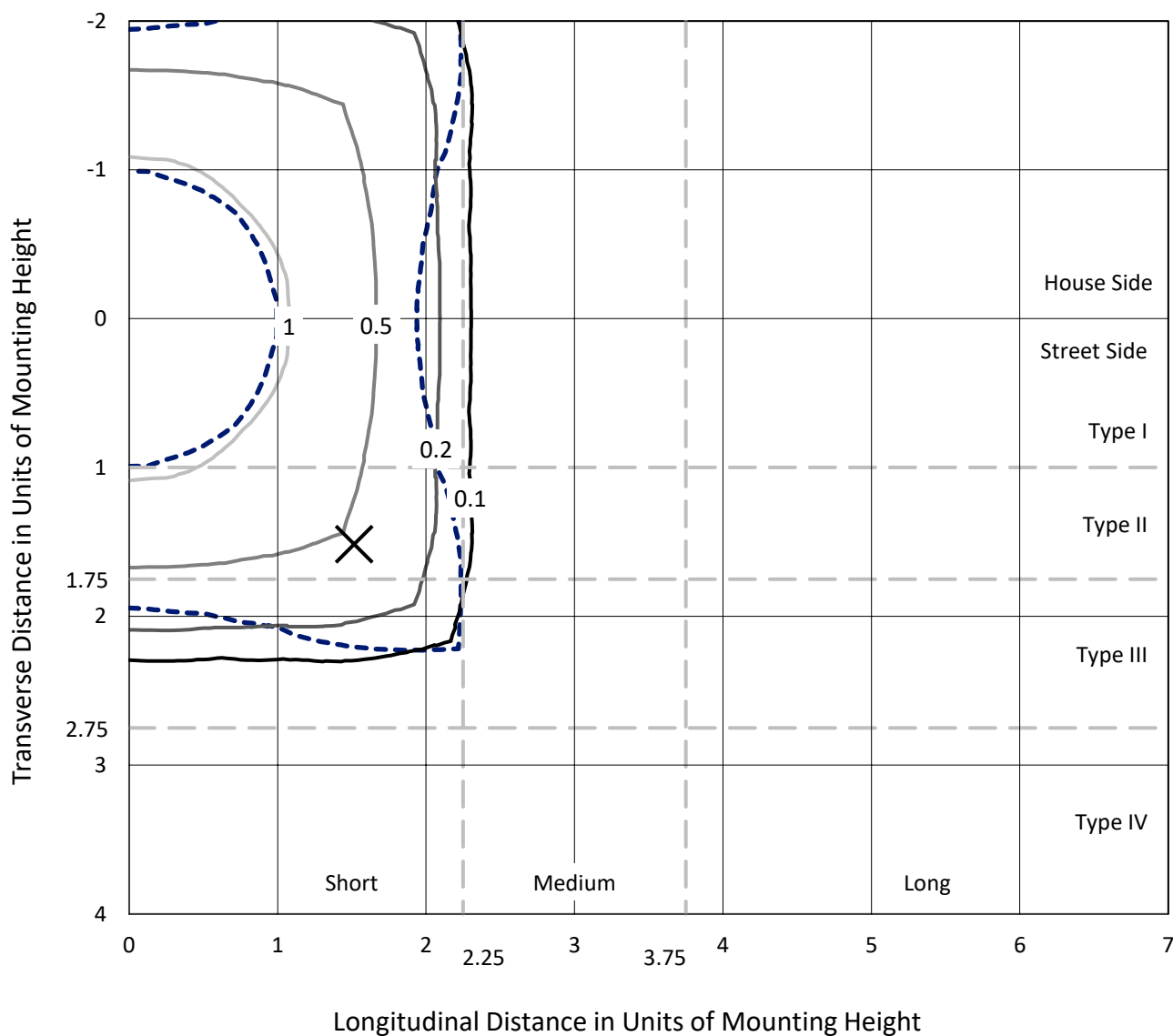


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Iso-Footcandle Lines of Horizontal Illumination

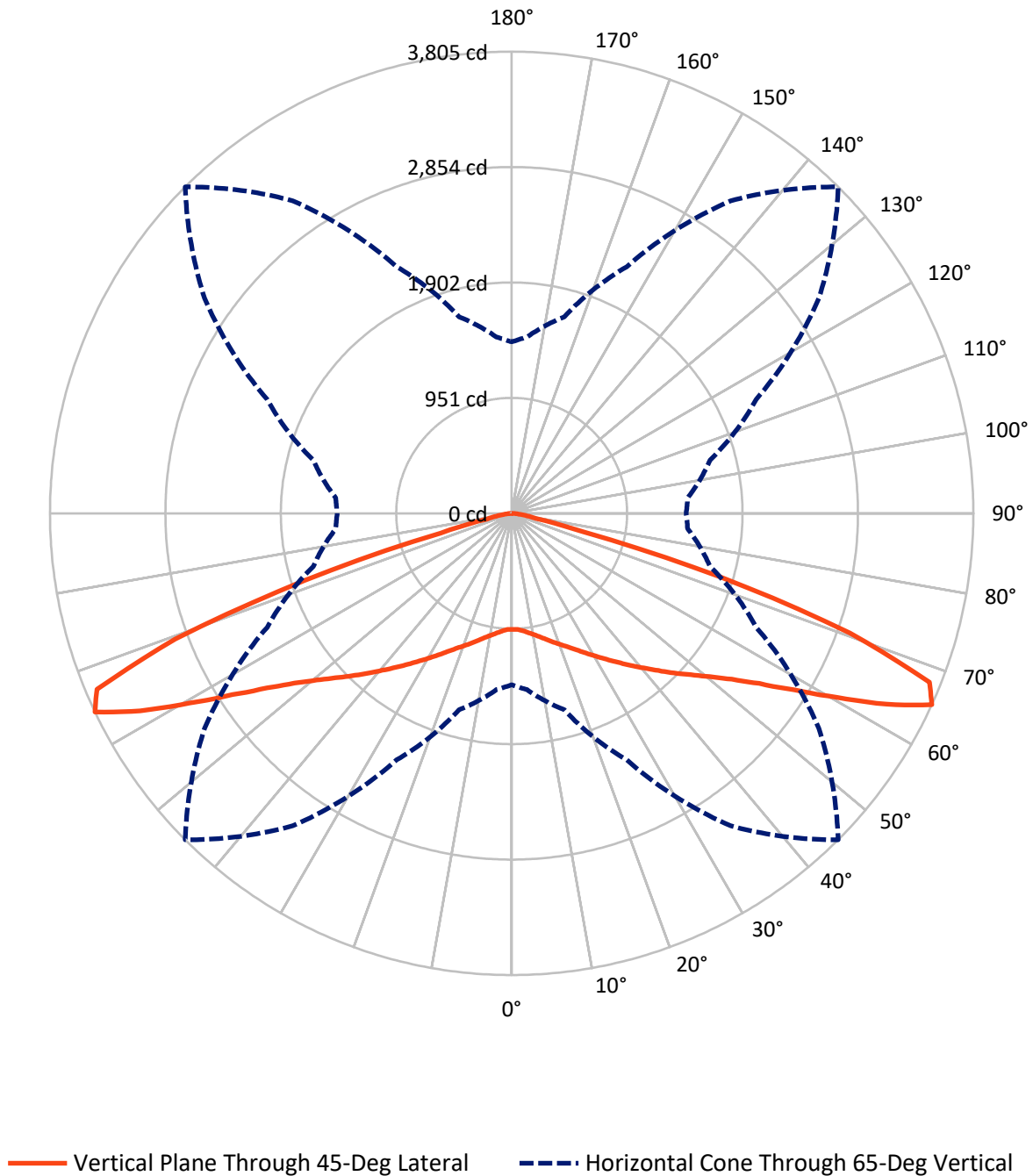
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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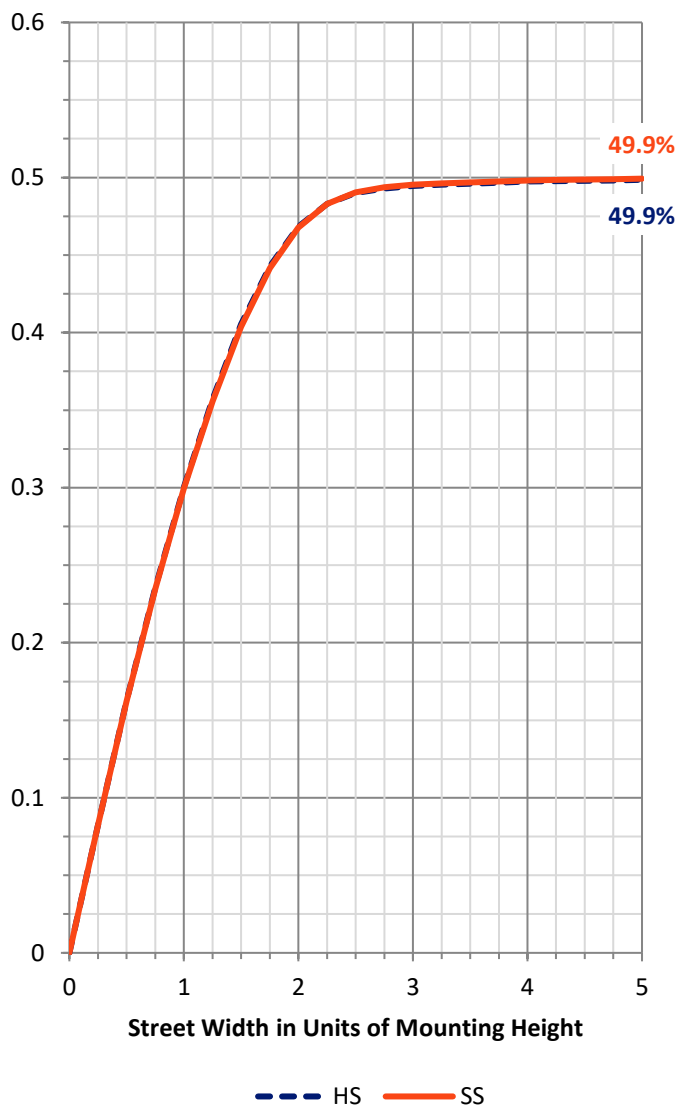
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4023.1	0.0	4023.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4023.1	0.0	4023.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	8046.3	0.0	8046.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	1.2
10°-20°	308.4	3.8
20°-30°	582.2	7.2
30°-40°	953.4	11.8
40°-50°	1478.3	18.4
50°-60°	2183.7	27.1
60°-70°	2078.7	25.8
70°-80°	335.4	4.2
80°-90°	31.6	0.4
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°	8046.3	100.0
0°-180°	8046.3	100.0

Coefficient of Utilization



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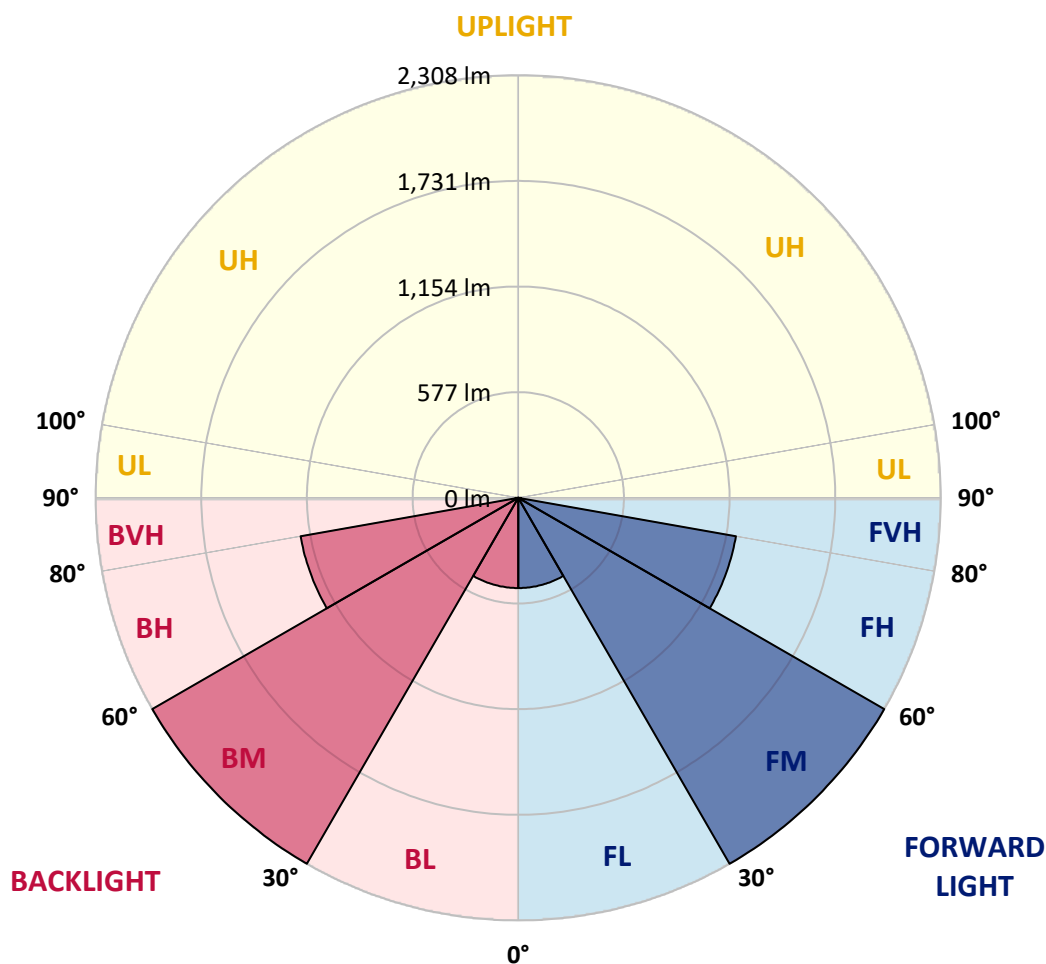
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	492.6	6.1			
FM	(30°-60°)	2307.7	28.7			
FH	(60°-80°)	1207.1	15.0			G1/1800
FVH	(80°-90°)	15.8	0.2			G1/100
BL	(0°-30°)	492.6	6.1	B1/500		
BM	(30°-60°)	2307.7	28.7	B2/2500		
BH	(60°-80°)	1207.1	15.0	B3/2500		G1/1800
BVH	(80°-90°)	15.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	957.6	957.6	957.6	957.6	957.6	957.6	957.6	957.6	957.6	957.6	957.6
2.5°	964.0	960.8	963.2	961.2	959.6	958.0	958.8	961.7	962.8	963.2	963.2
5°	976.9	974.2	975.4	975.4	972.5	971.7	972.1	974.2	976.5	976.5	976.5
7.5°	997.9	995.2	997.9	996.3	993.9	993.1	992.7	994.4	997.9	997.9	996.7
10°	1023.4	1020.2	1021.8	1021.0	1018.1	1016.9	1016.5	1019.0	1022.1	1021.8	1021.0
12.5°	1051.2	1047.7	1049.6	1047.2	1046.4	1045.2	1045.2	1044.8	1046.8	1045.2	1046.0
15°	1082.3	1079.9	1080.8	1079.1	1080.4	1079.5	1076.2	1074.6	1075.4	1073.1	1073.5
17.5°	1119.1	1113.5	1116.2	1115.4	1115.4	1117.0	1111.8	1109.8	1111.4	1108.9	1111.0
20°	1161.4	1155.8	1157.0	1155.4	1153.3	1155.0	1148.5	1150.2	1151.4	1149.7	1153.3
22.5°	1207.9	1200.6	1200.2	1201.0	1196.6	1197.0	1192.6	1196.6	1199.0	1194.5	1199.0
25°	1255.5	1247.8	1253.1	1251.1	1245.4	1246.6	1243.4	1247.4	1249.5	1243.8	1250.3
27.5°	1306.0	1300.7	1305.5	1306.8	1299.9	1304.7	1299.9	1303.6	1305.5	1297.1	1303.6
30°	1364.9	1359.7	1364.1	1367.4	1359.3	1366.9	1362.9	1365.3	1365.7	1355.7	1361.7
32.5°	1429.2	1421.1	1432.3	1434.0	1425.1	1434.4	1429.2	1432.3	1434.4	1420.6	1429.9
35°	1507.5	1497.3	1510.2	1508.2	1500.6	1508.2	1503.4	1508.2	1513.1	1496.5	1506.6
37.5°	1591.8	1581.3	1595.0	1591.4	1584.1	1589.4	1586.6	1589.8	1597.5	1579.7	1590.6
40°	1684.7	1671.8	1690.3	1683.9	1677.0	1676.2	1677.8	1679.8	1689.9	1670.1	1676.6
42.5°	1784.0	1770.3	1798.1	1788.0	1778.3	1771.8	1777.1	1781.1	1790.8	1768.6	1780.3
45°	1897.4	1881.7	1918.0	1905.9	1890.5	1877.2	1885.7	1891.7	1905.9	1879.2	1893.0
47.5°	2022.5	2004.8	2043.5	2040.0	2014.8	1985.8	2005.2	2022.5	2033.1	2000.8	2011.7
50°	2144.9	2131.2	2182.0	2186.4	2155.8	2115.0	2142.0	2168.3	2171.2	2128.7	2133.9
52.5°	2259.5	2245.8	2319.7	2347.6	2320.1	2271.6	2300.3	2327.0	2305.5	2250.7	2252.2
55°	2351.1	2339.9	2434.0	2505.8	2515.0	2475.1	2492.1	2491.3	2421.0	2336.6	2339.5
57.5°	2373.4	2371.7	2490.4	2642.7	2739.5	2744.3	2710.8	2625.3	2473.9	2360.5	2353.2
60°	2272.4	2282.6	2445.6	2714.1	2972.5	3079.8	2934.9	2690.7	2413.8	2256.3	2237.7
62.5°	1970.5	1997.1	2193.7	2626.9	3160.6	3465.8	3114.6	2591.4	2166.6	1961.2	1949.0
65°	1412.1	1458.6	1675.8	2241.8	3143.7	3804.9	3088.7	2223.6	1692.0	1455.0	1437.6
67.5°	640.7	687.9	872.4	1534.8	2732.6	3712.9	2726.2	1551.0	916.0	690.3	680.2
70°	232.2	240.2	299.5	614.5	1746.4	2958.4	1821.1	618.9	318.6	255.9	252.8
72.5°	140.5	141.7	154.3	220.1	606.8	1796.1	632.6	227.2	157.4	139.7	142.1
75°	89.2	88.5	109.8	134.5	215.1	606.0	225.7	134.5	109.4	99.7	100.6
77.5°	64.2	66.2	78.7	100.6	135.6	205.5	133.2	96.0	78.7	64.6	65.8
80°	48.1	49.3	57.3	78.3	95.3	128.0	84.8	71.0	59.3	40.4	41.6
82.5°	34.7	34.7	37.5	56.9	58.1	69.0	46.0	50.0	39.2	28.7	28.7
85°	20.6	20.2	23.4	33.9	30.2	25.4	21.0	30.6	24.6	17.7	17.3
87.5°	7.3	7.7	7.3	9.7	8.1	6.9	6.5	8.5	6.9	6.0	5.6
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)