

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: P960463

Luminaire Tested: **NAV-SB1C-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960463
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-SB1C-827-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

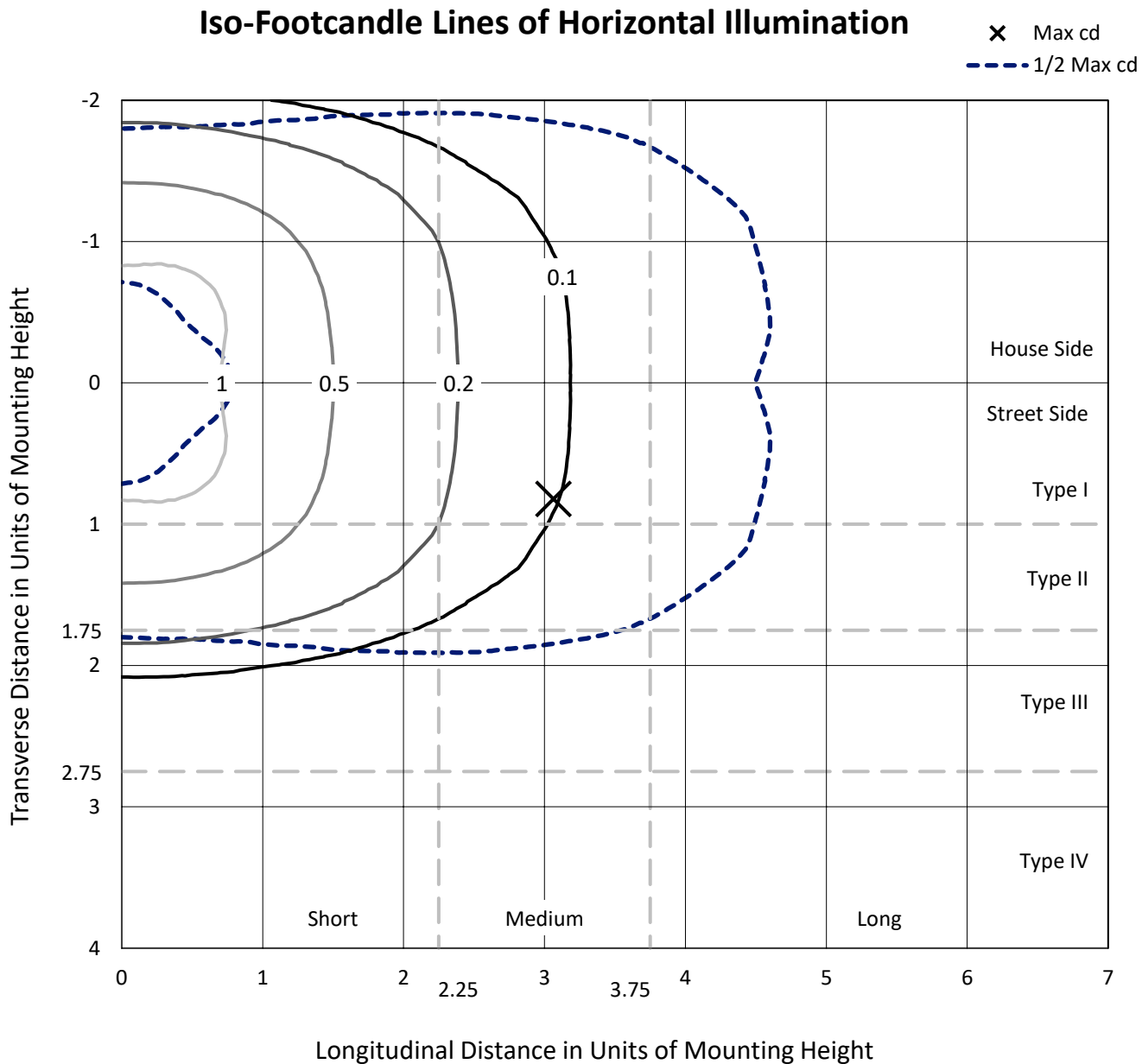
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6875.7 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

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

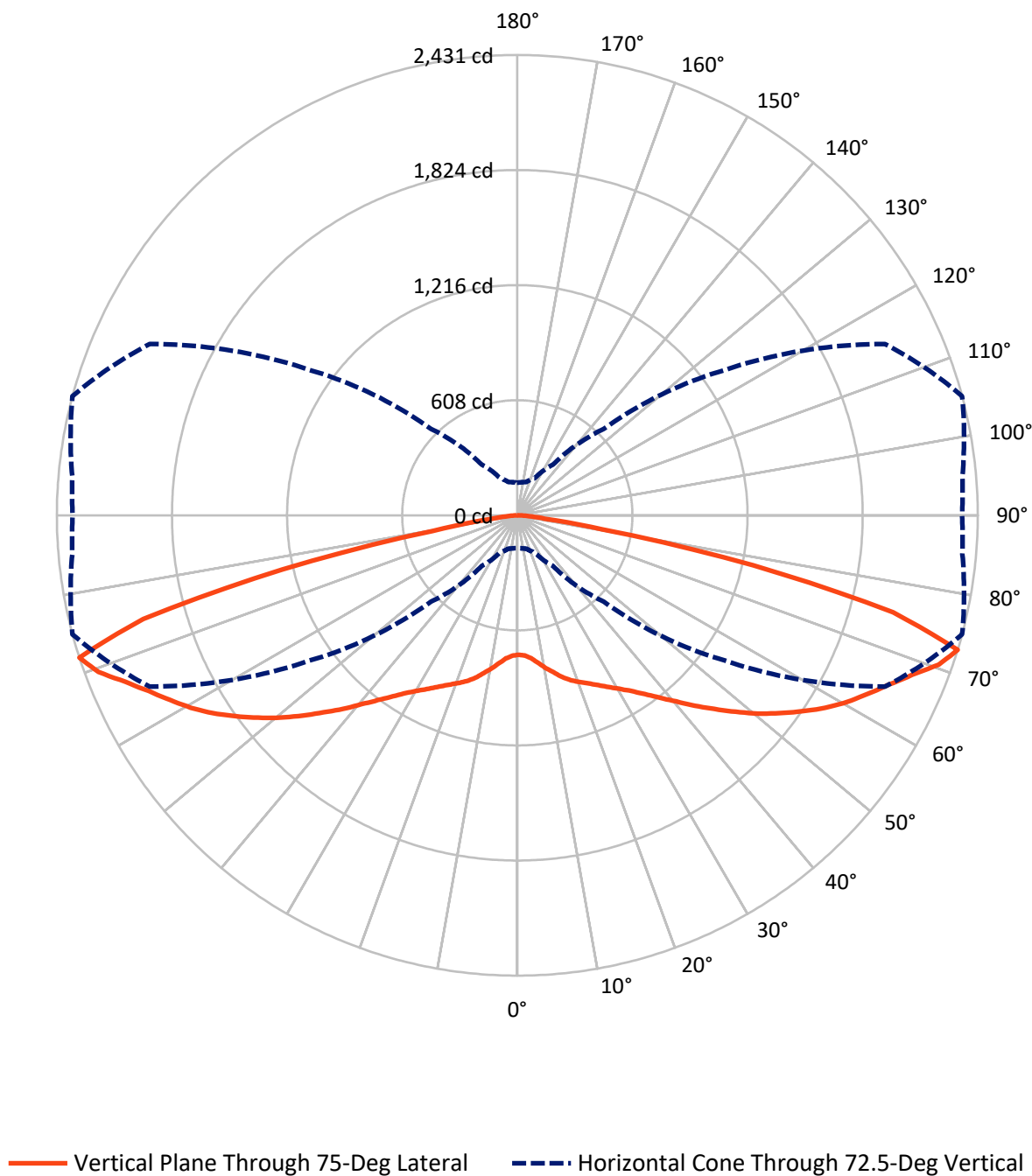


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Luminous Intensity Polar Plot



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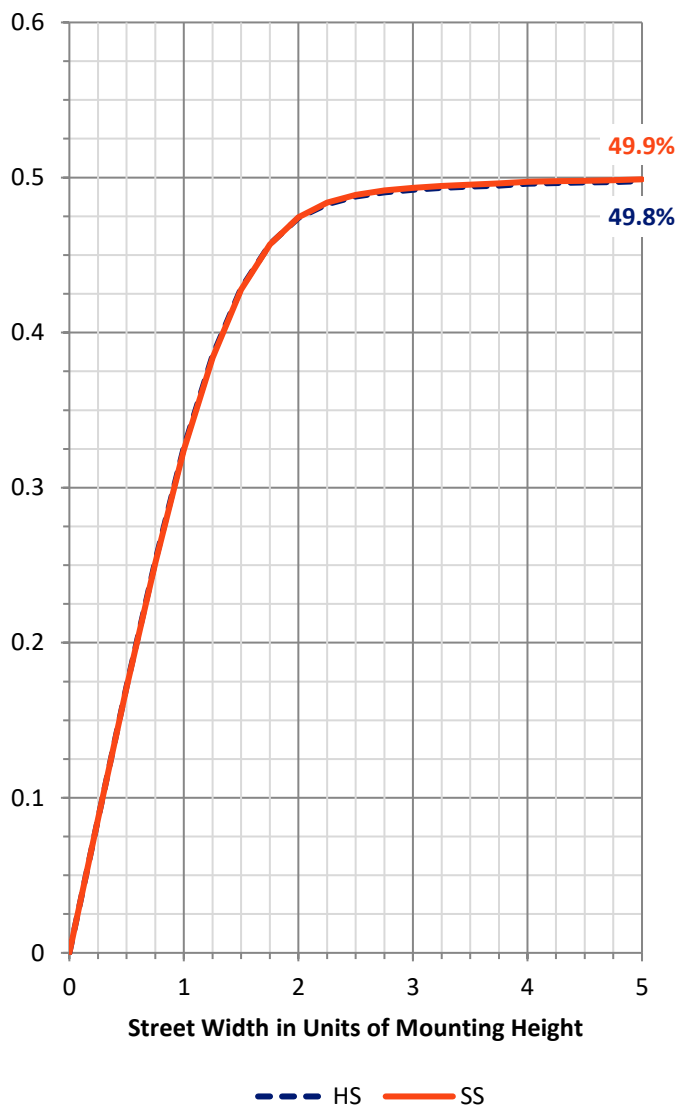
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3437.8	0.0	3437.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3437.8	0.0	3437.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	6875.7	0.0	6875.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	1.0
10°-20°	238.0	3.5
20°-30°	459.8	6.7
30°-40°	776.4	11.3
40°-50°	1231.3	17.9
50°-60°	1648.6	24.0
60°-70°	1568.9	22.8
70°-80°	818.7	11.9
80°-90°	62.0	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°	6875.7	100.0
0°-180°	6875.7	100.0

Coefficient of Utilization



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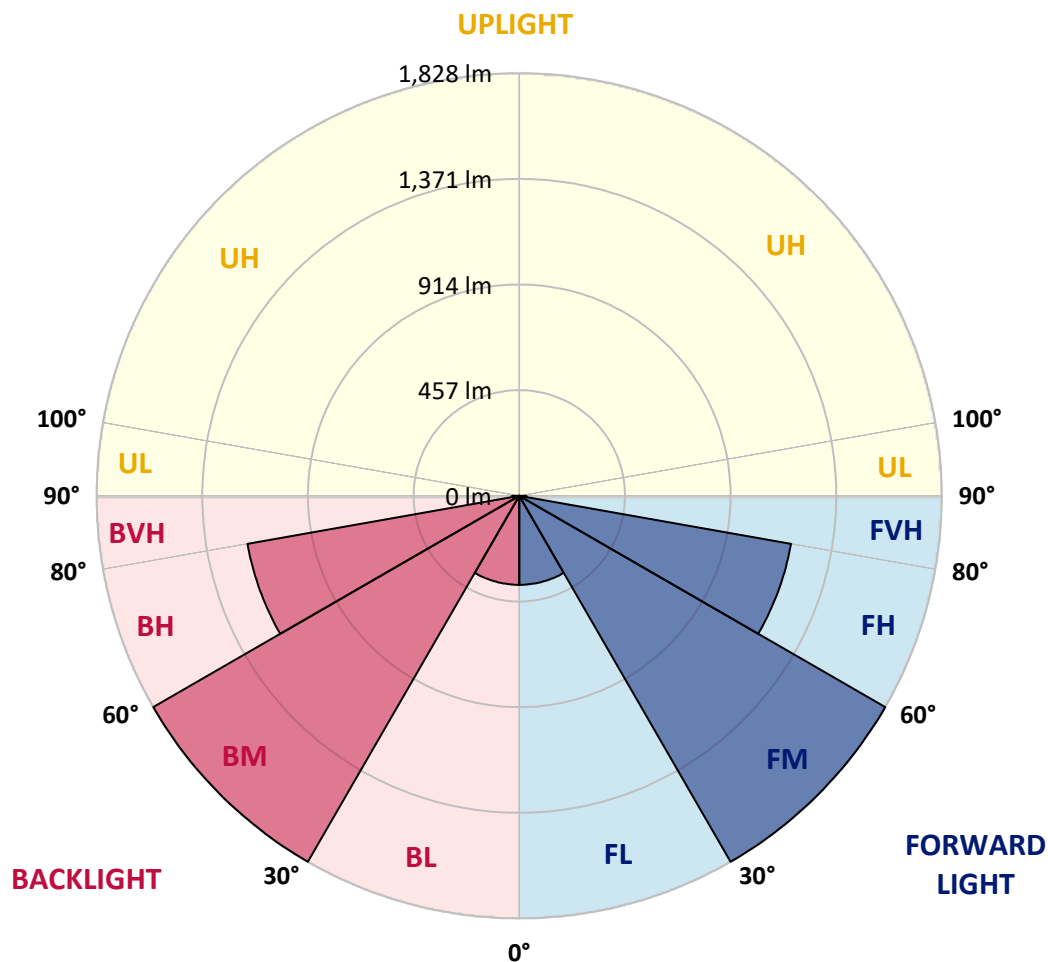
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	385.0	5.6			
FM	(30°-60°)	1828.1	26.6			
FH	(60°-80°)	1193.8	17.4			G1/1800
FVH	(80°-90°)	31.0	0.5			G1/100
BL	(0°-30°)	385.0	5.6	B1/500		
BM	(30°-60°)	1828.1	26.6	B2/2500		
BH	(60°-80°)	1193.8	17.4	B3/2500		G3/2500
BVH	(80°-90°)	31.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	736.5	736.5	736.5	736.5	736.5	736.5	736.5	736.5	736.5	736.5	736.5
2.5°	736.5	735.8	736.5	737.2	736.9	736.9	738.6	739.6	741.8	741.4	741.1
5°	731.6	731.2	734.0	737.2	739.6	743.8	749.2	753.0	757.9	759.0	759.0
7.5°	729.2	728.1	733.0	738.6	746.3	756.9	767.0	777.6	786.0	788.8	789.6
10°	730.9	731.2	737.9	748.5	760.8	775.5	789.9	807.8	819.7	822.6	825.3
12.5°	738.9	738.3	749.5	766.4	783.2	801.9	818.7	838.3	851.3	857.9	860.8
15°	753.7	752.3	768.1	793.0	817.6	839.4	853.1	871.7	886.7	895.2	898.3
17.5°	771.3	771.9	792.6	825.0	857.3	881.8	894.8	904.4	915.9	923.3	926.8
20°	802.2	803.6	826.8	865.0	901.9	930.0	940.4	937.0	940.1	945.8	950.0
22.5°	843.6	844.3	870.2	911.7	950.3	981.2	988.2	973.9	965.0	968.9	971.7
25°	891.6	896.3	922.2	964.7	1004.4	1033.8	1037.0	1015.3	993.5	994.6	996.3
27.5°	950.3	954.5	980.8	1023.0	1063.3	1089.0	1088.7	1059.4	1027.6	1019.5	1021.9
30°	1013.8	1018.4	1045.4	1089.0	1126.6	1149.0	1144.1	1109.4	1063.6	1048.6	1050.3
32.5°	1089.4	1092.1	1119.5	1163.1	1197.8	1215.6	1205.5	1162.7	1105.8	1088.7	1092.9
35°	1180.6	1184.8	1205.2	1246.2	1276.7	1291.5	1274.3	1223.7	1159.9	1140.6	1143.4
37.5°	1284.8	1282.1	1305.2	1341.7	1367.0	1376.2	1352.6	1292.6	1221.7	1198.8	1203.0
40°	1393.7	1392.3	1417.6	1452.6	1466.4	1472.0	1437.3	1371.6	1292.9	1268.3	1276.4
42.5°	1492.3	1491.3	1525.3	1564.3	1580.8	1574.5	1530.6	1455.5	1375.4	1347.4	1354.3
45°	1571.3	1569.9	1611.7	1666.4	1698.7	1688.2	1629.2	1548.2	1459.0	1429.9	1436.5
47.5°	1632.0	1632.7	1677.7	1745.5	1802.0	1805.8	1730.0	1642.6	1550.9	1517.9	1527.8
50°	1676.0	1678.0	1726.1	1801.2	1878.5	1912.5	1832.8	1739.4	1646.0	1608.8	1620.1
52.5°	1686.8	1690.6	1748.5	1836.7	1927.6	1992.6	1937.5	1832.5	1736.4	1700.9	1710.0
55°	1628.9	1636.6	1710.0	1833.9	1957.9	2045.3	2029.4	1926.9	1827.3	1790.7	1800.9
57.5°	1495.9	1506.7	1592.3	1754.2	1951.2	2081.4	2100.7	2017.5	1918.2	1883.0	1891.1
60°	1309.4	1322.5	1404.6	1581.2	1857.1	2094.7	2150.9	2105.7	2001.7	1967.7	1975.1
62.5°	1028.3	1045.1	1143.4	1350.5	1658.3	2032.6	2193.7	2185.3	2076.9	2034.3	2039.2
65°	659.6	677.5	781.0	1025.8	1393.3	1842.3	2207.0	2262.9	2156.2	2096.8	2104.2
67.5°	397.7	405.8	457.0	621.8	1018.4	1555.5	2094.1	2348.9	2248.8	2175.2	2180.8
70°	254.5	259.1	289.7	365.1	575.7	1135.0	1813.9	2365.1	2361.2	2255.5	2254.8
72.5°	172.7	174.1	182.2	216.3	325.7	644.9	1337.8	2141.1	2431.4	2359.0	2347.9
75°	126.4	134.1	147.1	153.0	185.0	322.3	766.7	1504.3	2049.1	2080.6	2004.2
77.5°	94.1	94.4	112.3	119.3	132.0	171.7	324.4	839.7	1272.2	1335.8	1191.5
80°	79.6	75.4	75.1	96.1	99.3	107.1	144.9	290.0	455.7	276.2	208.9
82.5°	66.3	61.8	55.9	75.1	67.8	65.6	62.8	118.0	144.9	71.2	60.8
85°	46.3	44.3	42.1	49.1	38.6	33.0	30.2	55.1	61.1	30.2	26.6
87.5°	20.0	20.7	21.0	21.7	16.2	11.6	11.6	15.5	15.5	11.9	8.8
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)