

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: P959978

Luminaire Tested: **NAV-SB1B-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959978
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-SB1B-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

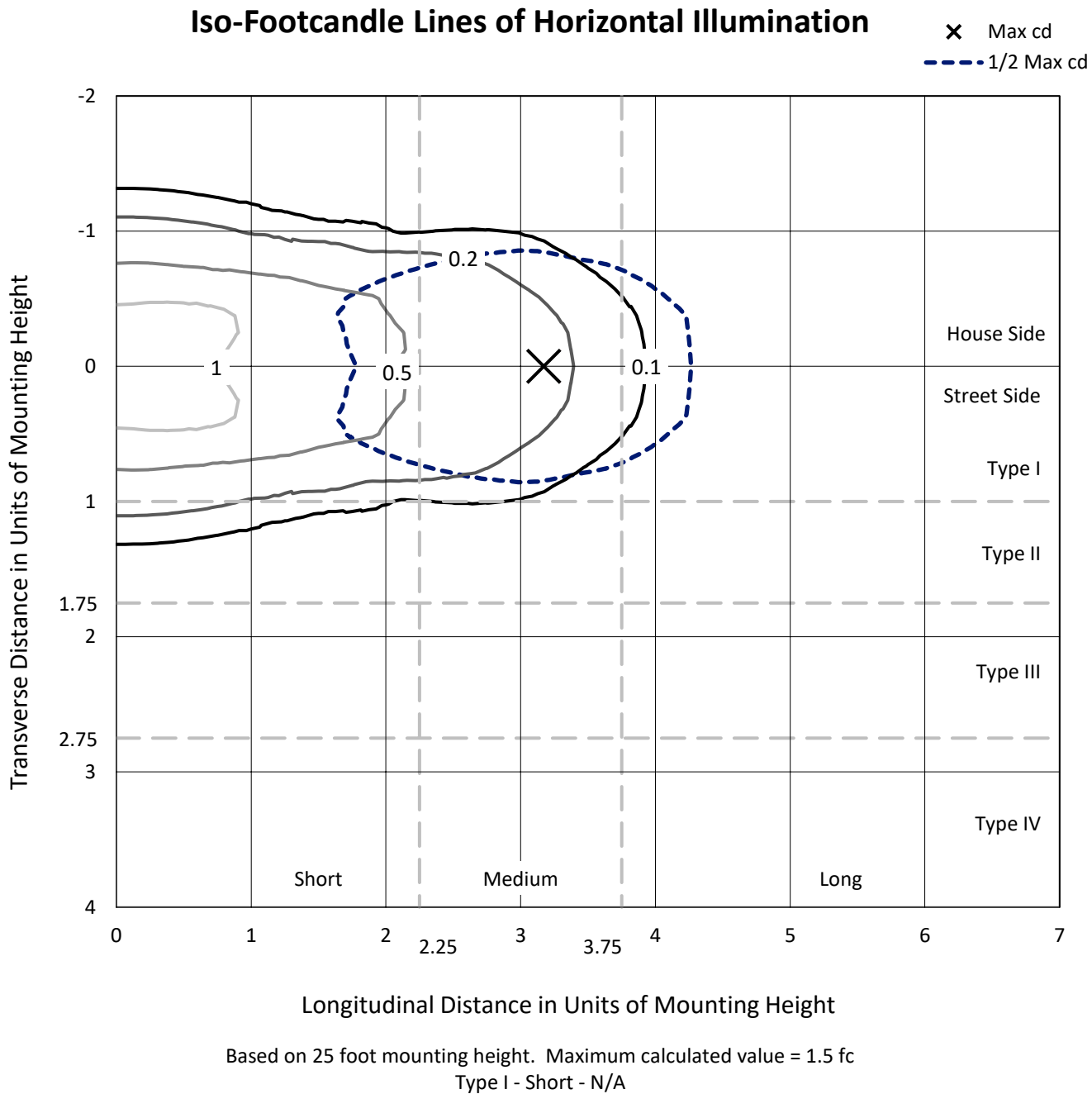
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5132.2 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 39.8
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

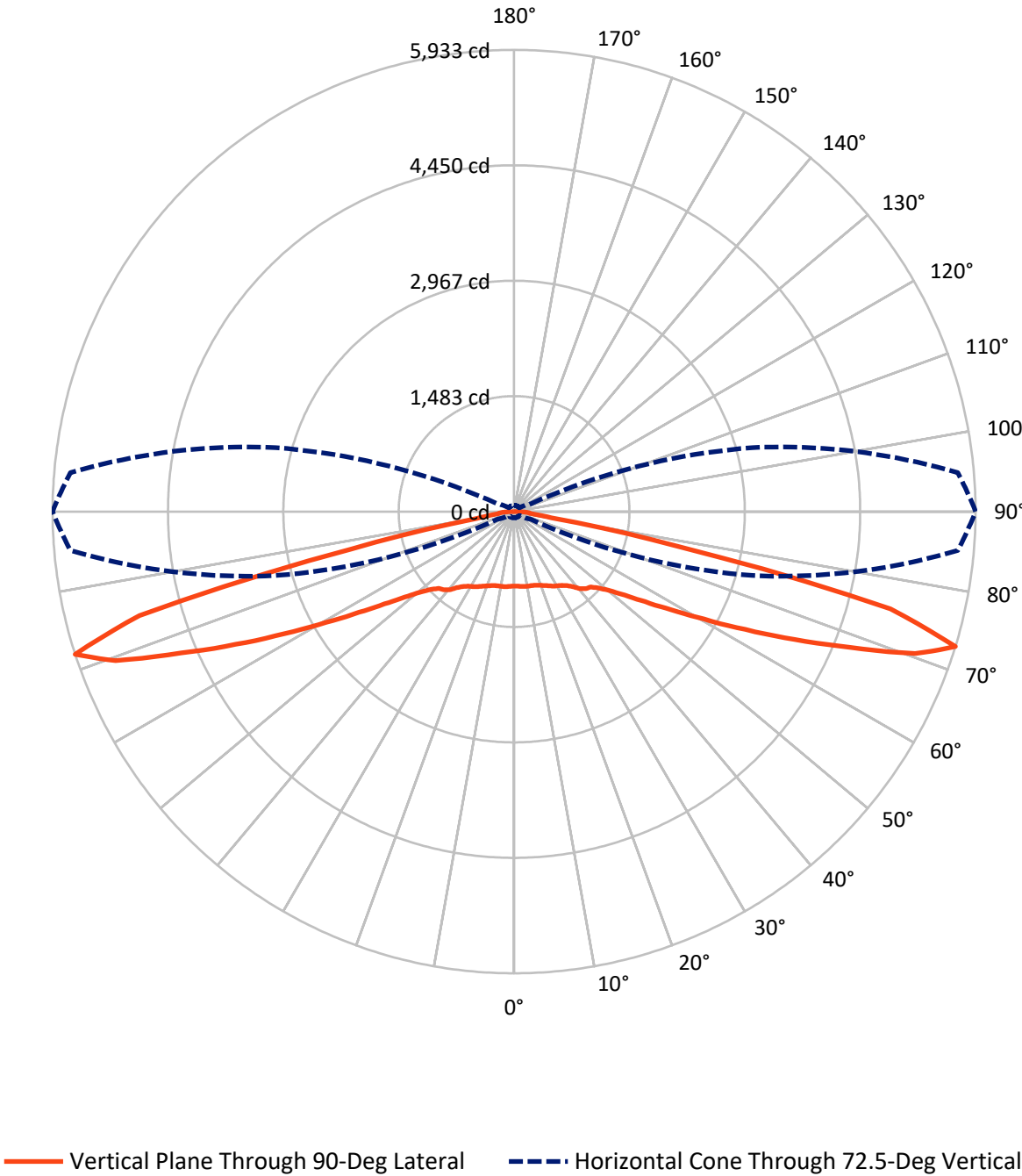


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Luminous Intensity Polar Plot



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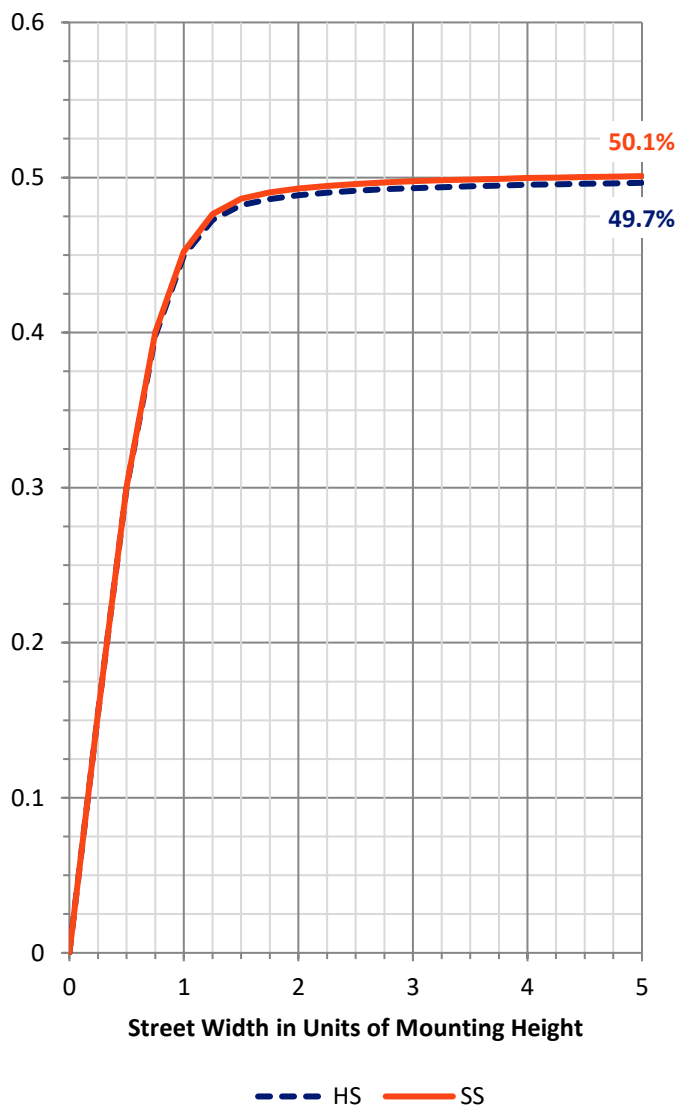
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2566.1	0.0	2566.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2566.1	0.0	2566.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	5132.2	0.0	5132.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	1.8
10°-20°	284.3	5.5
20°-30°	474.1	9.2
30°-40°	652.0	12.7
40°-50°	796.3	15.5
50°-60°	921.0	17.9
60°-70°	1098.1	21.4
70°-80°	766.4	14.9
80°-90°	47.1	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°	5132.2	100.0
0°-180°	5132.2	100.0

Coefficient of Utilization



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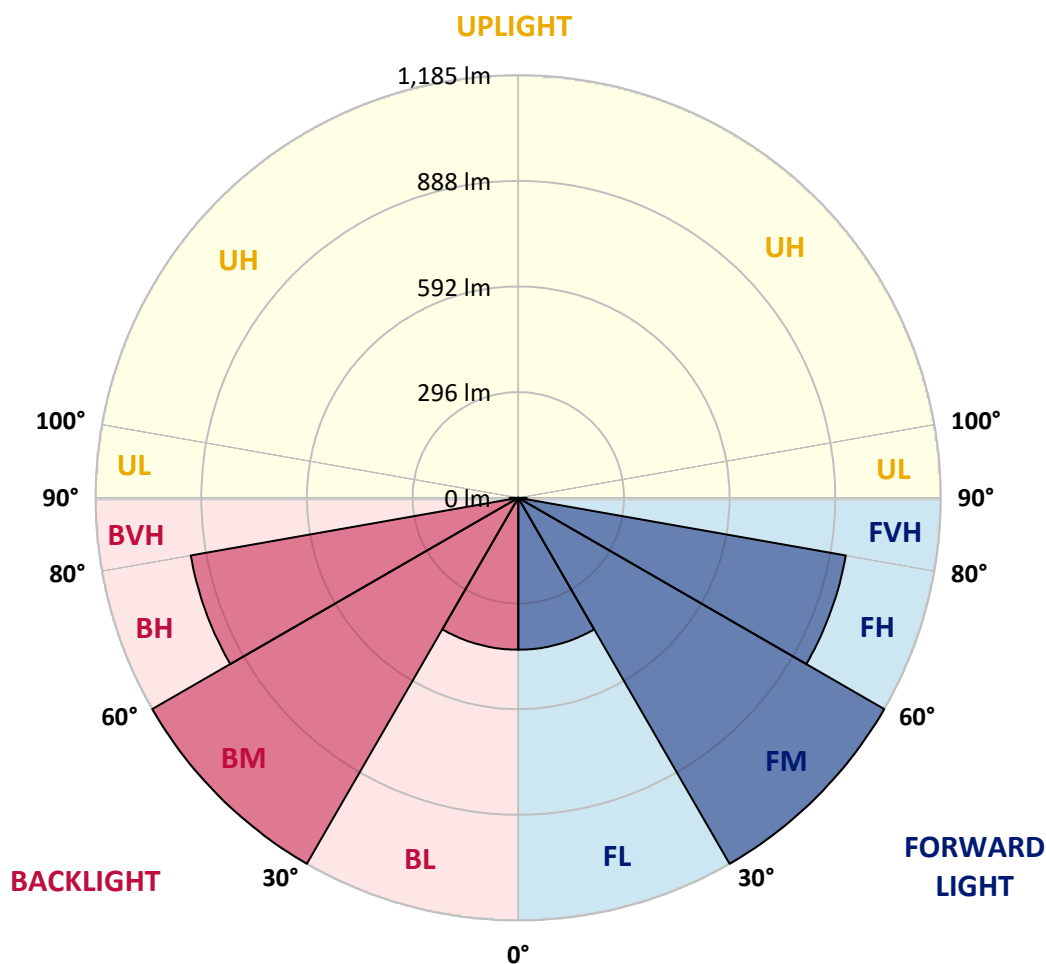
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	425.7	8.3			
FM	(30°-60°)	1184.6	23.1			
FH	(60°-80°)	932.3	18.2			G1/1800
FVH	(80°-90°)	23.5	0.5			G1/100
BL	(0°-30°)	425.7	8.3	B1/500		
BM	(30°-60°)	1184.6	23.1	B2/2500		
BH	(60°-80°)	932.3	18.2	B2/1000		G2/1000
BVH	(80°-90°)	23.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	959.0	959.0	959.0	959.0	959.0	959.0	959.0	959.0	959.0	959.0	959.0
2.5°	959.8	960.9	960.9	960.1	962.0	960.3	960.3	959.5	960.3	959.5	959.5
5°	964.7	966.1	966.7	966.4	968.8	967.5	967.5	966.4	966.7	965.9	965.9
7.5°	974.0	975.9	977.0	978.4	982.0	980.3	979.2	975.9	974.6	972.3	972.3
10°	977.0	979.2	982.8	989.8	998.0	998.2	995.0	986.9	980.5	975.6	974.8
12.5°	967.7	970.8	978.1	992.5	1010.9	1018.2	1013.0	999.4	987.1	978.4	977.0
15°	956.0	959.3	970.5	992.3	1019.3	1036.5	1036.0	1017.9	998.2	984.6	982.5
17.5°	937.8	941.0	957.0	987.7	1025.8	1054.2	1061.8	1043.2	1015.8	997.4	994.5
20°	904.8	907.7	930.1	972.9	1028.0	1073.0	1093.0	1076.6	1042.2	1017.4	1012.7
22.5°	861.9	866.5	892.7	947.5	1022.8	1092.6	1128.4	1117.1	1073.0	1038.6	1032.4
25°	816.1	821.0	851.6	916.5	1009.4	1106.8	1170.3	1163.3	1107.9	1065.1	1056.4
27.5°	776.5	781.7	815.0	885.6	988.7	1112.3	1211.9	1215.3	1150.2	1094.3	1085.0
30°	745.5	750.3	785.8	860.8	962.0	1106.8	1248.1	1272.6	1193.3	1119.6	1106.3
32.5°	711.3	717.6	755.0	830.6	930.4	1093.8	1279.7	1334.6	1243.2	1147.0	1130.1
35°	668.2	673.9	713.3	789.0	888.9	1072.8	1306.3	1403.3	1314.7	1188.4	1169.5
37.5°	615.9	621.4	660.3	737.3	847.7	1043.2	1326.4	1480.8	1399.7	1248.1	1223.0
40°	563.2	568.5	605.0	679.5	798.4	1005.6	1333.5	1556.6	1497.4	1330.2	1303.5
42.5°	515.0	519.6	553.2	622.4	743.0	957.7	1324.2	1622.6	1585.0	1387.5	1353.1
45°	470.5	474.6	504.3	569.0	685.4	899.2	1296.4	1693.5	1689.2	1428.4	1382.0
47.5°	419.7	423.8	454.7	517.1	627.9	830.8	1249.2	1763.3	1834.0	1521.1	1467.7
50°	357.8	361.4	393.1	457.5	568.2	758.0	1183.8	1818.1	2016.8	1661.6	1594.5
52.5°	284.4	288.3	319.1	383.5	497.2	679.7	1097.6	1853.9	2227.8	1866.7	1784.1
55°	211.7	214.4	241.1	298.9	409.4	590.5	989.5	1864.0	2467.3	2147.1	2043.7
57.5°	153.5	155.2	172.4	215.5	310.4	479.0	858.3	1837.8	2752.3	2506.6	2376.5
60°	124.3	124.9	130.1	149.2	215.8	352.9	699.9	1747.8	3061.7	2970.0	2806.0
62.5°	113.0	113.0	114.3	119.5	146.0	233.0	508.1	1561.3	3393.4	3555.6	3336.1
65°	105.0	105.0	105.6	108.0	115.1	148.4	320.7	1257.4	3672.9	4241.6	3963.9
67.5°	97.9	98.2	97.9	98.7	102.8	109.7	186.0	868.5	3823.5	4952.4	4652.6
70°	90.5	91.1	89.7	89.7	93.0	93.3	116.4	476.2	3698.5	5548.1	5469.3
72.5°	81.8	82.6	80.5	79.9	82.4	81.3	87.5	228.6	3175.3	5726.0	5933.2
75°	74.2	75.2	70.4	69.0	69.0	68.2	71.2	117.3	2061.0	4670.9	4996.1
77.5°	67.3	69.6	61.6	57.3	56.2	53.7	58.1	71.8	901.5	2193.0	2147.4
80°	55.7	58.6	50.7	45.5	43.7	40.9	45.8	50.2	268.1	509.2	487.7
82.5°	41.4	42.8	36.0	32.5	30.9	28.9	34.3	35.0	87.3	180.3	203.8
85°	26.4	27.0	22.1	19.1	18.2	17.4	21.8	19.1	33.3	132.5	192.6
87.5°	9.2	10.7	8.4	7.7	8.2	6.9	10.0	5.7	9.2	93.6	115.9
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)