

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: P959885

Luminaire Tested: **NAV-SB1B-750-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959885
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-750-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

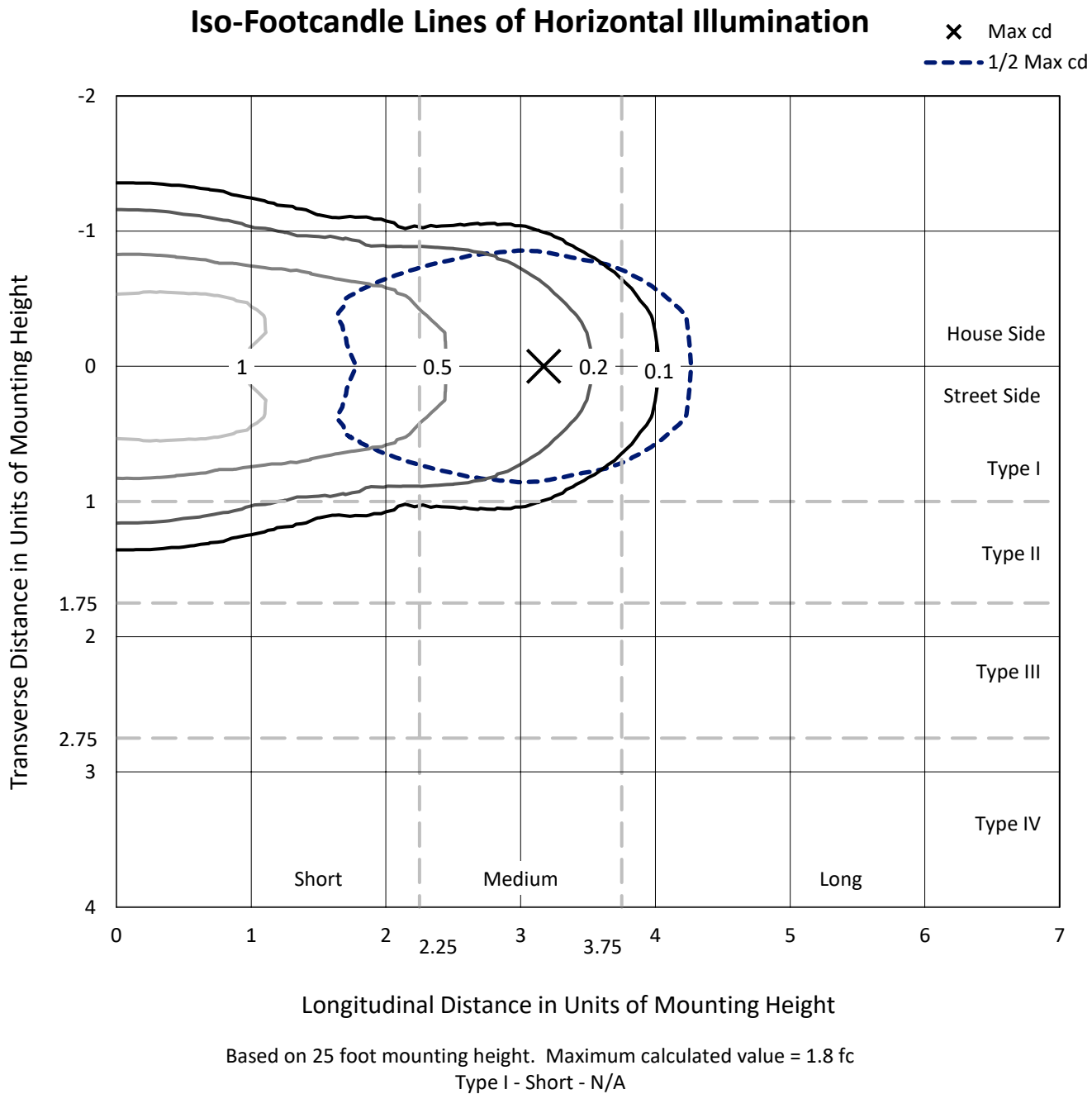
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6042.4 lumens
Efficiency: N/A
Efficacy: 151.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

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

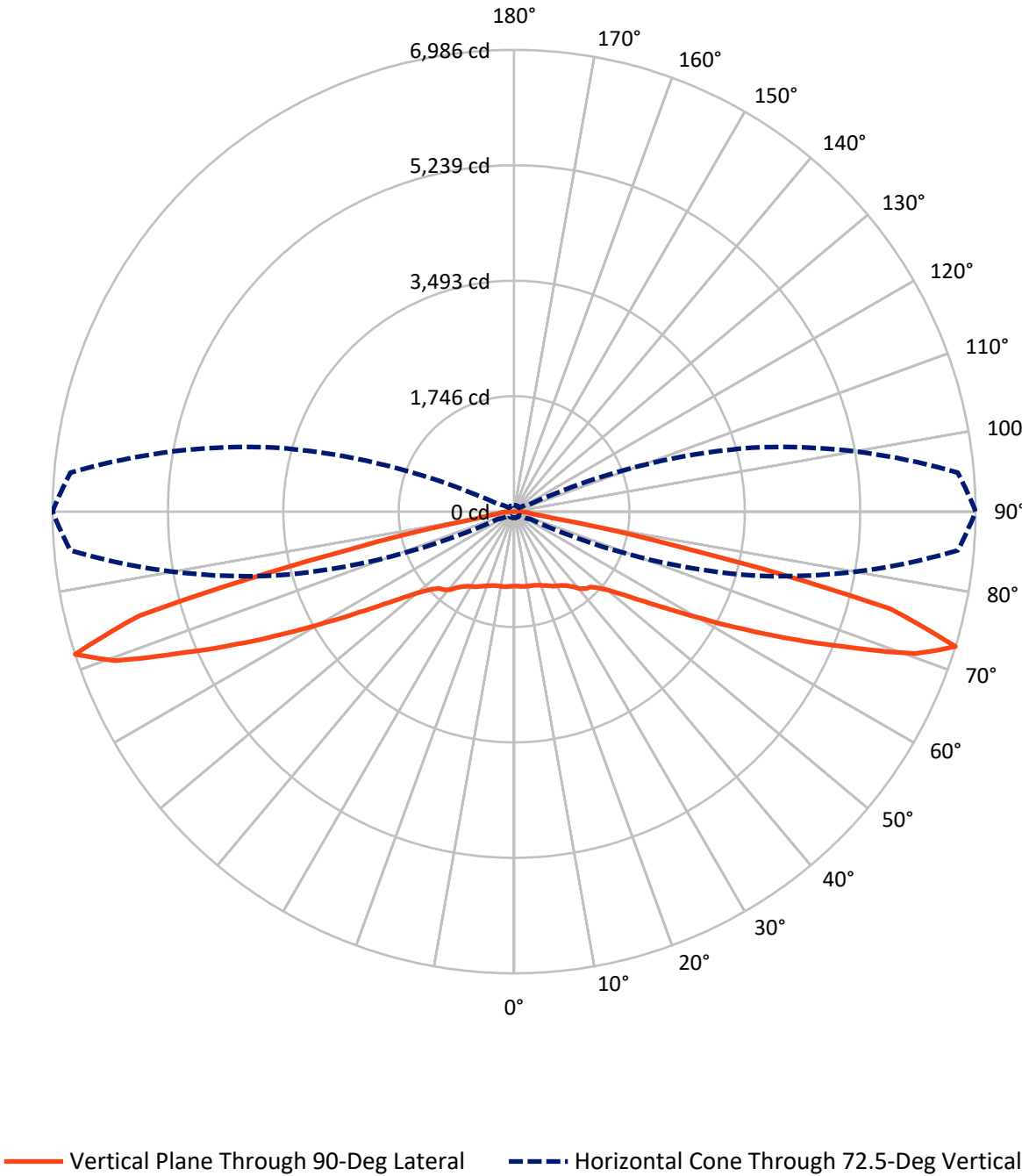


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Luminous Intensity Polar Plot



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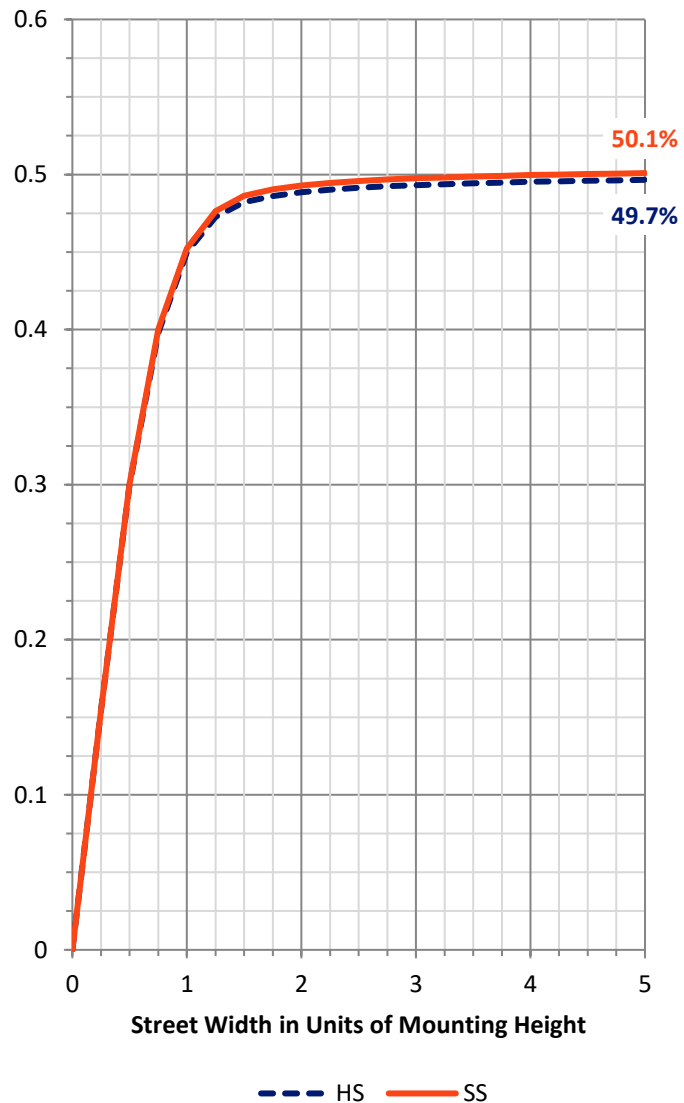
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3021.2	0.0	3021.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3021.2	0.0	3021.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	6042.4	0.0	6042.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	1.8
10°-20°	334.7	5.5
20°-30°	558.1	9.2
30°-40°	767.6	12.7
40°-50°	937.5	15.5
50°-60°	1084.3	17.9
60°-70°	1292.8	21.4
70°-80°	902.3	14.9
80°-90°	55.4	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°	6042.4	100.0
0°-180°	6042.4	100.0

Coefficient of Utilization



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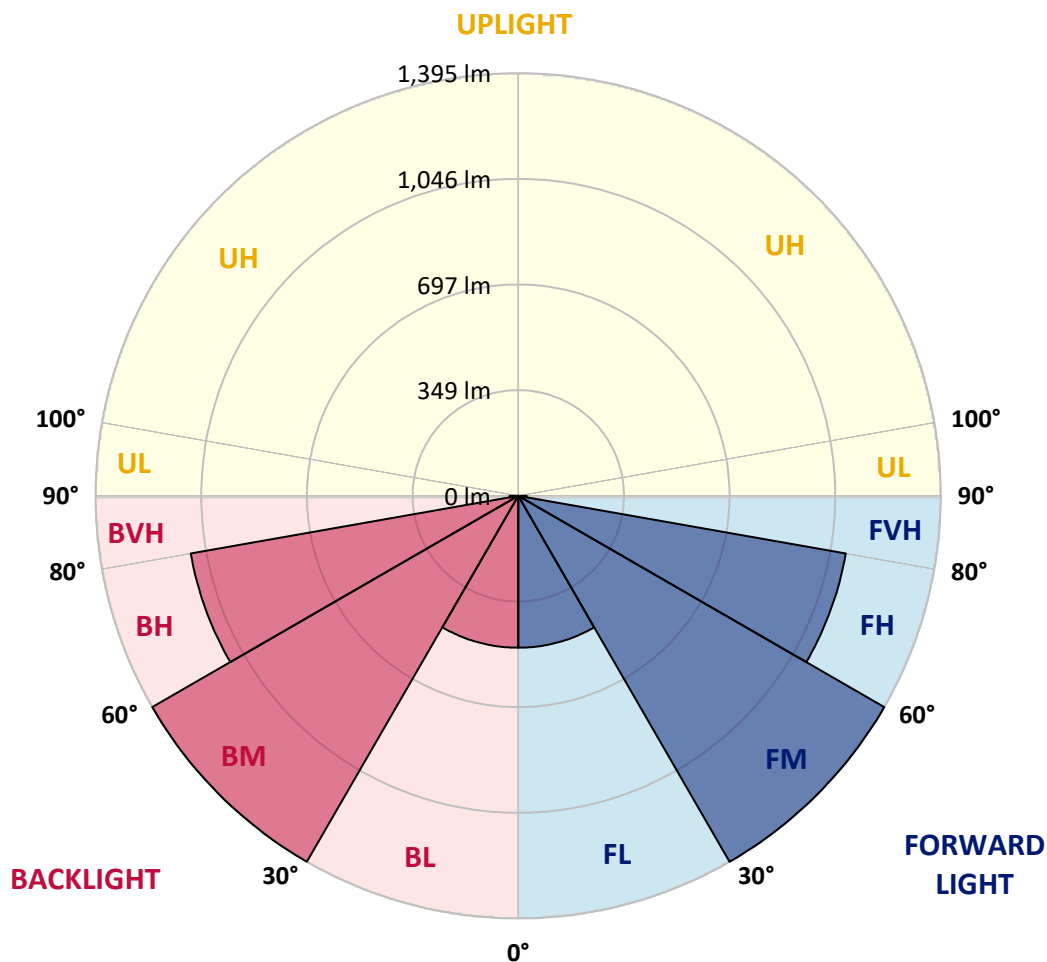
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	501.2	8.3			
FM	(30°-60°)	1394.7	23.1			
FH	(60°-80°)	1097.6	18.2			G1/1800
FVH	(80°-90°)	27.7	0.5			G1/100
BL	(0°-30°)	501.2	8.3	B2/1000		
BM	(30°-60°)	1394.7	23.1	B2/2500		
BH	(60°-80°)	1097.6	18.2	B3/2500		G3/2500
BVH	(80°-90°)	27.7	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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1129.0	1129.0	1129.0	1129.0	1129.0	1129.0	1129.0	1129.0	1129.0	1129.0	1129.0
2.5°	1130.1	1131.3	1131.3	1130.4	1132.6	1130.7	1130.7	1129.8	1130.7	1129.8	1129.8
5°	1135.8	1137.4	1138.1	1137.8	1140.6	1139.1	1139.1	1137.8	1138.1	1137.1	1137.1
7.5°	1146.8	1149.0	1150.3	1151.9	1156.1	1154.1	1152.8	1149.0	1147.4	1144.8	1144.8
10°	1150.3	1152.8	1157.0	1165.3	1175.0	1175.4	1171.5	1161.8	1154.5	1148.7	1147.7
12.5°	1139.4	1142.9	1151.6	1168.6	1190.1	1198.7	1192.7	1176.6	1162.1	1151.9	1150.3
15°	1125.6	1129.4	1142.6	1168.3	1200.1	1220.3	1219.6	1198.4	1175.4	1159.3	1156.7
17.5°	1104.0	1107.9	1126.8	1162.8	1207.8	1241.2	1250.2	1228.4	1195.9	1174.3	1170.9
20°	1065.2	1068.7	1095.0	1145.4	1210.3	1263.3	1286.8	1267.5	1227.0	1197.8	1192.4
22.5°	1014.7	1020.2	1051.0	1115.6	1204.3	1286.5	1328.5	1315.4	1263.3	1222.8	1215.4
25°	960.8	966.6	1002.6	1079.0	1188.5	1303.1	1377.9	1369.6	1304.4	1254.0	1243.7
27.5°	914.2	920.3	959.5	1042.7	1164.1	1309.5	1426.8	1430.9	1354.2	1288.3	1277.5
30°	877.6	883.4	925.2	1013.5	1132.6	1303.1	1469.4	1498.3	1405.0	1318.3	1302.5
32.5°	837.5	844.9	888.9	977.8	1095.3	1287.7	1506.7	1571.2	1463.7	1350.3	1330.4
35°	786.8	793.6	839.8	929.1	1046.5	1263.0	1537.9	1652.2	1547.9	1399.1	1377.0
37.5°	725.1	731.5	777.5	868.0	998.0	1228.4	1561.7	1743.4	1648.0	1469.4	1439.9
40°	663.2	669.2	712.3	799.9	939.9	1184.0	1570.0	1832.7	1763.0	1566.1	1534.6
42.5°	606.3	611.7	651.3	732.8	874.7	1127.5	1559.0	1910.4	1866.1	1633.5	1593.2
45°	553.9	558.7	593.8	669.8	807.0	1058.7	1526.3	1993.8	1988.7	1681.7	1627.2
47.5°	494.3	499.1	535.4	608.8	739.2	978.2	1470.8	2076.0	2159.3	1790.9	1727.9
50°	421.3	425.5	462.8	538.5	668.9	892.4	1393.7	2140.6	2374.4	1956.3	1877.3
52.5°	335.0	339.5	375.8	451.5	585.4	800.2	1292.2	2182.7	2623.0	2197.8	2100.5
55°	249.2	252.4	283.9	352.0	482.1	695.3	1165.0	2194.6	2905.0	2528.0	2406.2
57.5°	180.8	182.8	203.0	253.7	365.4	563.9	1010.5	2163.8	3240.5	2951.2	2797.9
60°	146.5	147.1	153.1	175.7	254.0	415.5	824.0	2057.8	3604.6	3496.8	3303.8
62.5°	132.9	132.9	134.6	140.6	171.8	274.3	598.3	1838.1	3995.1	4186.2	3927.7
65°	123.6	123.6	124.2	127.2	135.5	174.7	377.6	1480.4	4324.3	4993.8	4666.9
67.5°	115.3	115.6	115.3	116.2	121.1	129.0	219.0	1022.4	4501.6	5830.7	5477.8
70°	106.6	107.2	105.7	105.7	109.5	109.8	137.1	560.7	4354.5	6532.0	6439.3
72.5°	96.4	97.3	94.7	94.1	97.0	95.7	103.1	269.1	3738.6	6741.4	6985.5
75°	87.3	88.7	82.8	81.3	81.3	80.3	83.8	138.1	2426.5	5499.3	5882.1
77.5°	79.3	81.9	72.6	67.4	66.1	63.2	68.4	84.5	1061.3	2581.9	2528.3
80°	65.5	69.1	59.8	53.6	51.4	48.2	53.9	59.0	315.7	599.5	574.2
82.5°	48.8	50.4	42.4	38.2	36.3	34.0	40.5	41.1	102.8	212.3	239.8
85°	31.2	31.8	26.0	22.4	21.5	20.6	25.7	22.4	39.2	156.1	226.7
87.5°	11.0	12.5	9.9	9.0	9.6	8.0	11.9	6.8	11.0	110.2	136.5
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)