

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: P960474

Luminaire Tested: **NAV-SB1C-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960474
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-SB1C-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

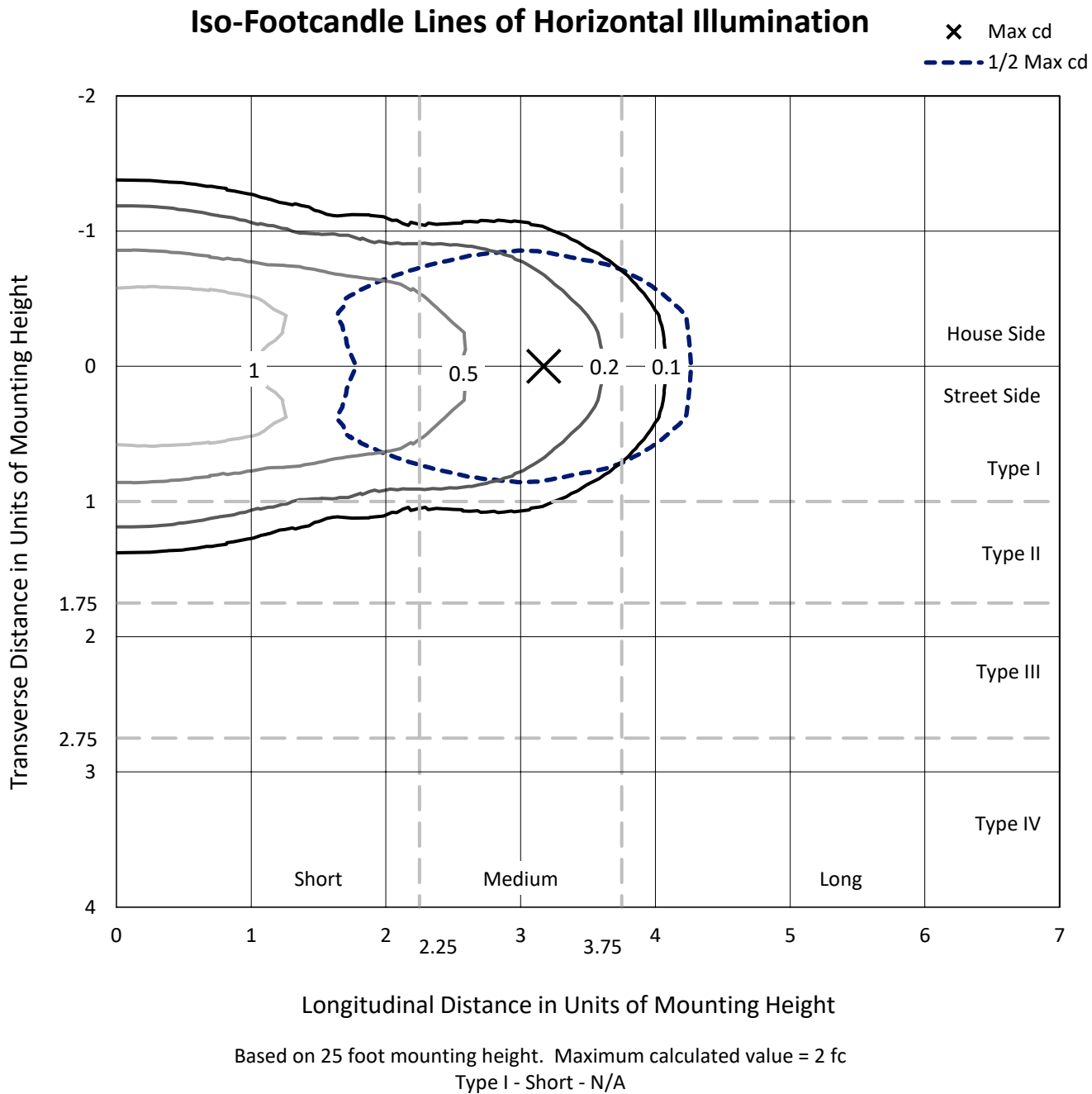
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6605.1 lumens
Efficiency: N/A
Efficacy: 121.4 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): 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

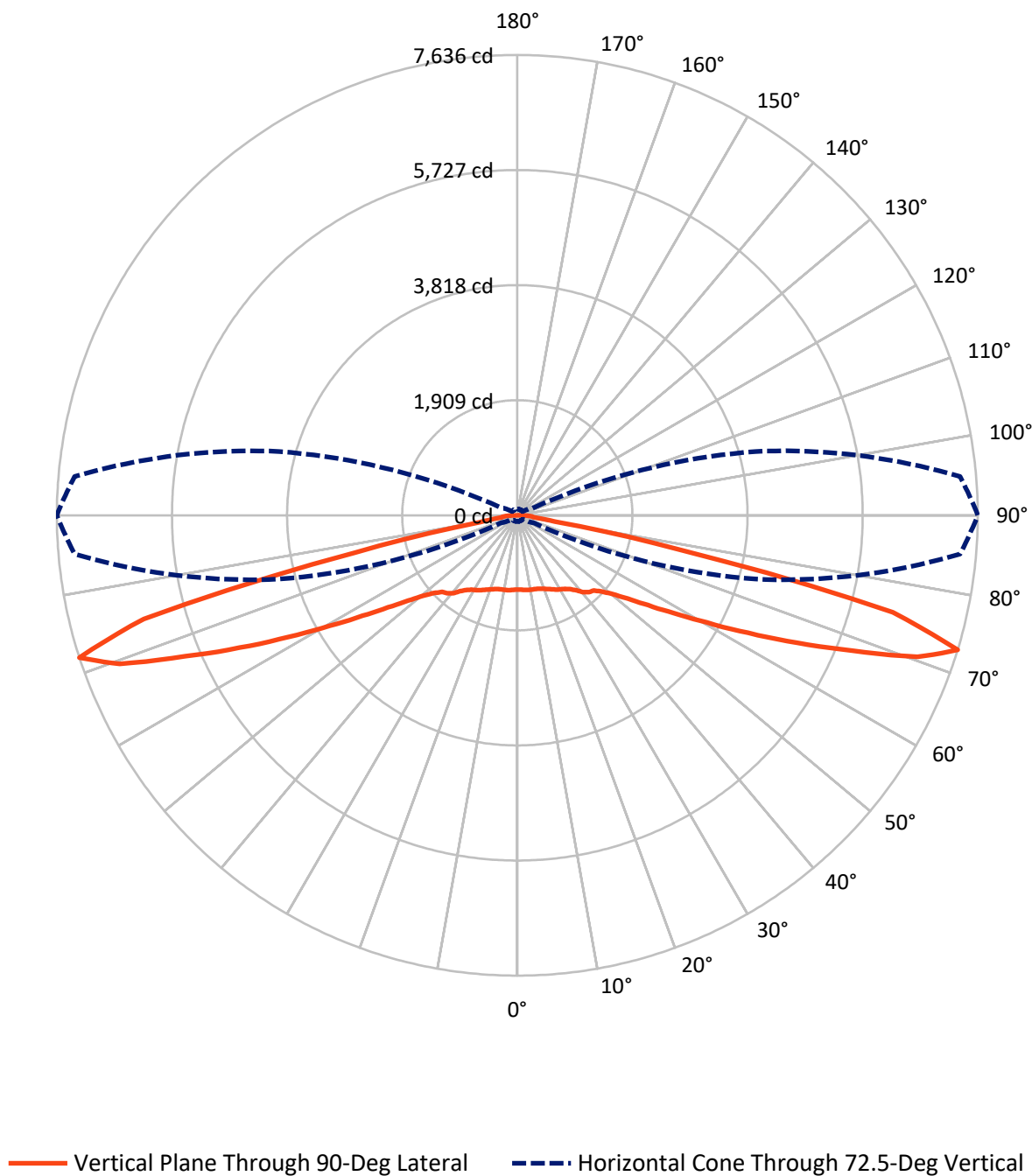


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CATALOG NUMBER: NAV-SB1C-827-U-T1



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Luminous Intensity Polar Plot



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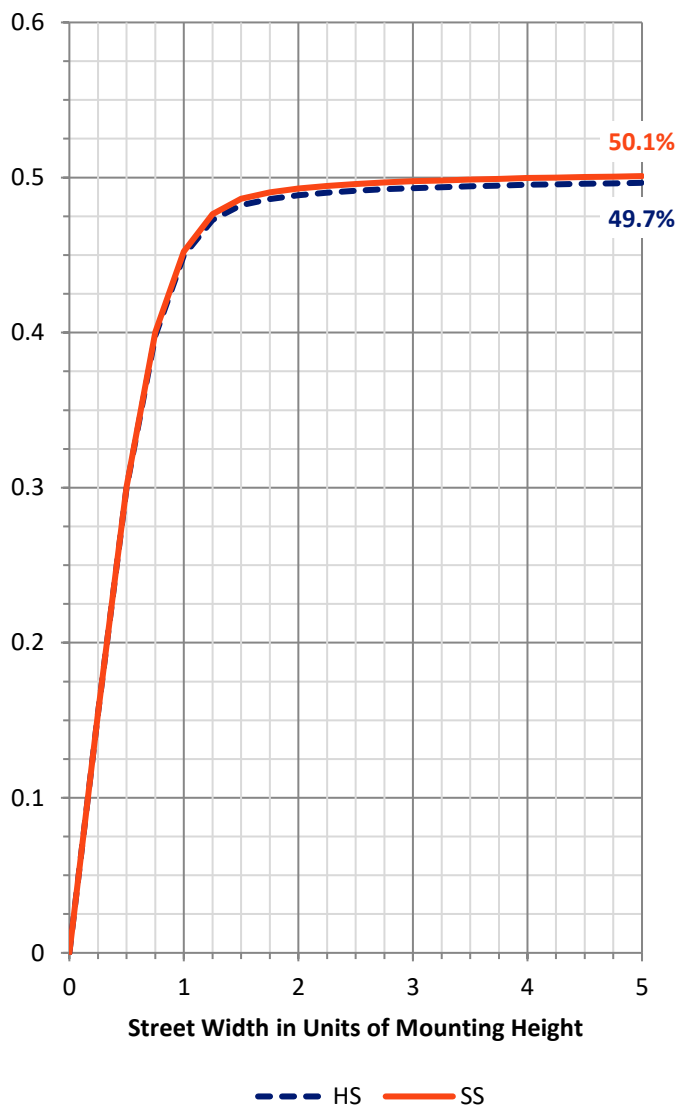
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3302.5	0.0	3302.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3302.5	0.0	3302.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6605.1	0.0	6605.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	1.8
10°-20°	365.9	5.5
20°-30°	610.1	9.2
30°-40°	839.1	12.7
40°-50°	1024.8	15.5
50°-60°	1185.3	17.9
60°-70°	1413.3	21.4
70°-80°	986.4	14.9
80°-90°	60.6	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°	6605.1	100.0
0°-180°	6605.1	100.0

Coefficient of Utilization



REPORT NUMBER: P960474

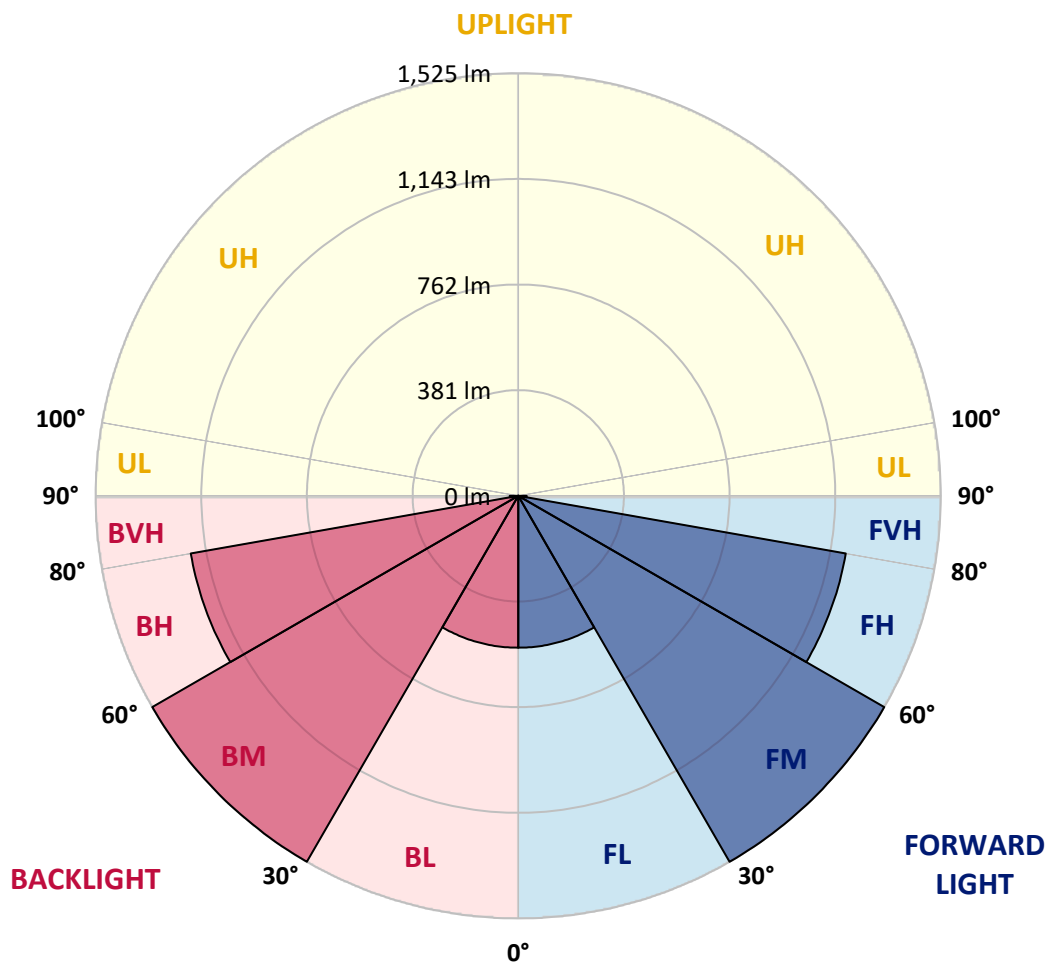
CATALOG NUMBER: NAV-SB1C-827-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	547.9	8.3			
FM	(30°-60°)	1524.6	23.1			
FH	(60°-80°)	1199.8	18.2			G1/1800
FVH	(80°-90°)	30.3	0.5			G1/100
BL	(0°-30°)	547.9	8.3	B2/1000		
BM	(30°-60°)	1524.6	23.1	B2/2500		
BH	(60°-80°)	1199.8	18.2	B3/2500		G3/2500
BVH	(80°-90°)	30.3	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



REPORT NUMBER: P960474

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1234.2	1234.2	1234.2	1234.2	1234.2	1234.2	1234.2	1234.2	1234.2	1234.2	1234.2
2.5°	1235.3	1236.7	1236.7	1235.6	1238.1	1235.9	1235.9	1234.9	1235.9	1234.9	1234.9
5°	1241.6	1243.3	1244.0	1243.7	1246.9	1245.1	1245.1	1243.7	1244.0	1243.0	1243.0
7.5°	1253.6	1256.0	1257.4	1259.1	1263.7	1261.6	1260.2	1256.0	1254.3	1251.4	1251.4
10°	1257.4	1260.2	1264.7	1273.9	1284.4	1284.7	1280.5	1270.1	1262.0	1255.6	1254.6
12.5°	1245.5	1249.4	1258.8	1277.5	1300.9	1310.4	1303.7	1286.2	1270.4	1259.1	1257.4
15°	1230.4	1234.6	1249.0	1277.0	1311.8	1333.9	1333.2	1310.1	1284.7	1267.2	1264.4
17.5°	1206.8	1211.0	1231.7	1271.1	1320.2	1356.8	1366.5	1342.7	1307.3	1283.7	1279.9
20°	1164.4	1168.2	1197.0	1252.1	1323.1	1381.0	1406.6	1385.5	1341.3	1309.3	1303.4
22.5°	1109.3	1115.2	1148.9	1219.4	1316.4	1406.2	1452.2	1437.9	1381.0	1336.7	1328.7
25°	1050.3	1056.6	1095.9	1179.5	1299.2	1424.4	1506.2	1497.1	1425.9	1370.8	1359.6
27.5°	999.4	1006.0	1048.9	1139.8	1272.5	1431.5	1559.6	1564.3	1480.3	1408.4	1396.5
30°	959.4	965.7	1011.4	1107.8	1238.1	1424.4	1606.3	1637.9	1535.8	1440.9	1423.8
32.5°	915.5	923.5	971.7	1068.9	1197.4	1407.6	1647.1	1717.6	1600.0	1476.1	1454.4
35°	860.1	867.4	918.0	1015.6	1144.0	1380.6	1681.1	1806.0	1692.0	1529.4	1505.2
37.5°	792.6	799.6	849.8	948.8	1091.0	1342.7	1707.0	1905.8	1801.5	1606.3	1574.0
40°	724.9	731.5	778.6	874.4	1027.5	1294.3	1716.2	2003.4	1927.2	1712.0	1677.6
42.5°	662.8	668.7	711.9	801.0	956.2	1232.5	1704.3	2088.3	2039.9	1785.8	1741.5
45°	605.6	610.8	649.0	732.3	882.1	1157.3	1668.5	2179.6	2173.9	1838.3	1778.7
47.5°	540.3	545.5	585.2	665.5	808.1	1069.3	1607.7	2269.5	2360.4	1957.7	1888.9
50°	460.5	465.1	505.8	588.7	731.2	975.5	1523.5	2340.0	2595.5	2138.5	2052.2
52.5°	366.1	371.0	410.7	493.5	639.9	874.7	1412.6	2386.0	2867.2	2402.5	2296.1
55°	272.4	275.9	310.3	384.7	526.8	760.0	1273.6	2398.9	3175.4	2763.3	2630.3
57.5°	197.6	199.8	221.8	277.4	399.4	616.4	1104.7	2365.3	3542.3	3226.0	3058.6
60°	160.1	160.8	167.5	192.0	277.7	454.3	900.8	2249.5	3940.3	3822.4	3611.4
62.5°	145.3	145.3	147.1	153.8	187.8	299.8	653.9	2009.3	4367.2	4576.1	4293.5
65°	135.2	135.2	135.8	139.0	148.1	191.0	412.8	1618.3	4727.0	5458.9	5101.5
67.5°	126.0	126.4	126.0	127.1	132.3	141.1	239.4	1117.7	4920.8	6373.8	5987.9
70°	116.5	117.3	115.5	115.5	119.7	120.0	149.9	612.9	4760.0	7140.4	7038.9
72.5°	105.3	106.4	103.5	102.8	106.0	104.7	112.6	294.2	4086.8	7369.2	7636.0
75°	95.5	96.9	90.6	88.8	88.8	87.7	91.6	151.0	2652.4	6011.4	6429.8
77.5°	86.7	89.5	79.3	73.7	72.3	69.2	74.7	92.4	1160.2	2822.3	2763.7
80°	71.6	75.4	65.3	58.6	56.2	52.7	58.9	64.6	345.0	655.4	627.6
82.5°	53.4	55.1	46.3	41.8	39.7	37.2	44.3	44.9	112.3	232.1	262.2
85°	34.0	34.7	28.4	24.6	23.5	22.4	28.1	24.6	42.8	170.6	247.8
87.5°	11.9	13.7	10.9	9.8	10.6	8.8	13.0	7.4	11.9	120.4	149.2
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)