

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: P960381

Luminaire Tested: **NAV-SB1C-740-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960381
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-740-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

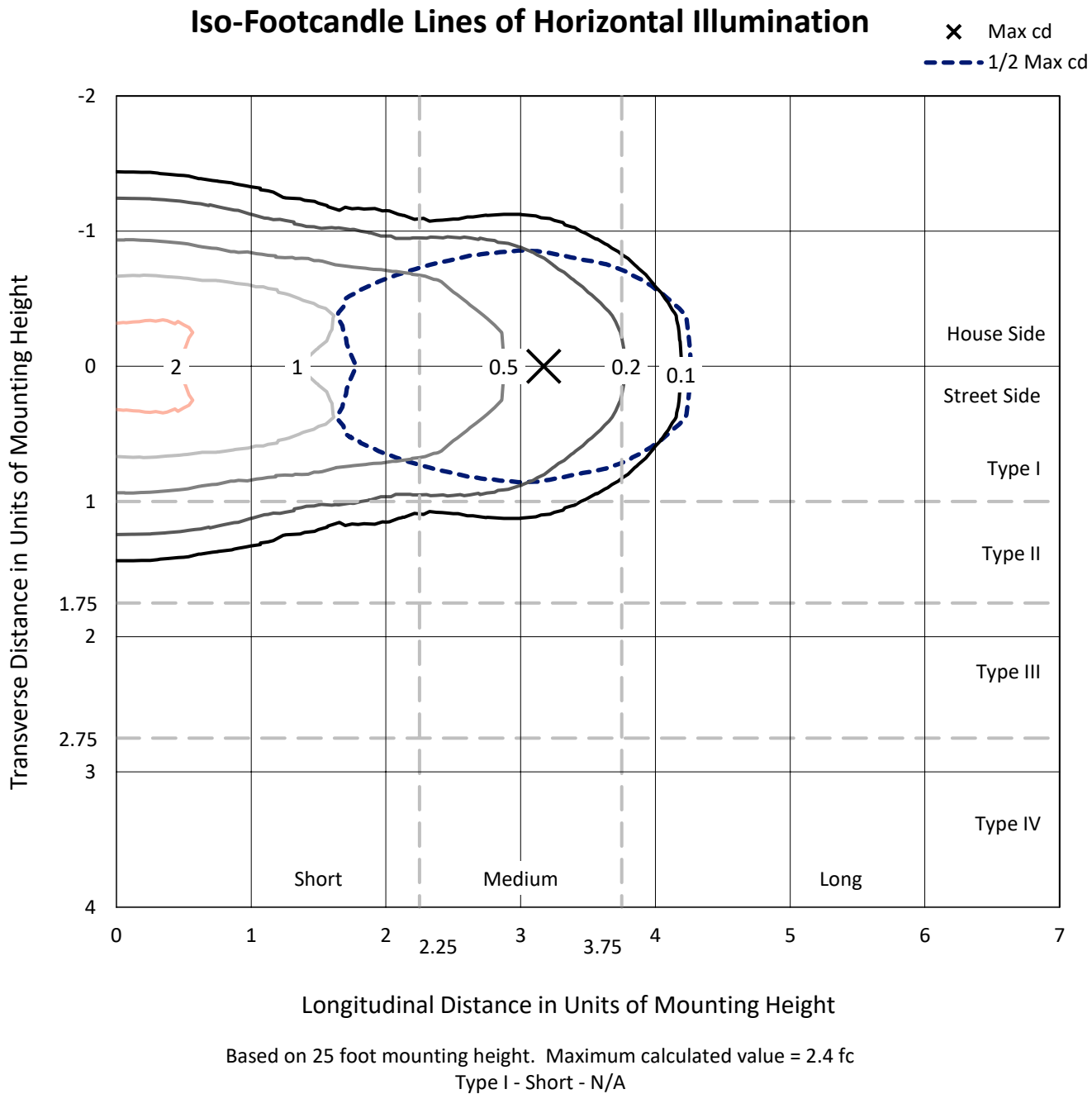
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8037 lumens
Efficiency: N/A
Efficacy: 147.7 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

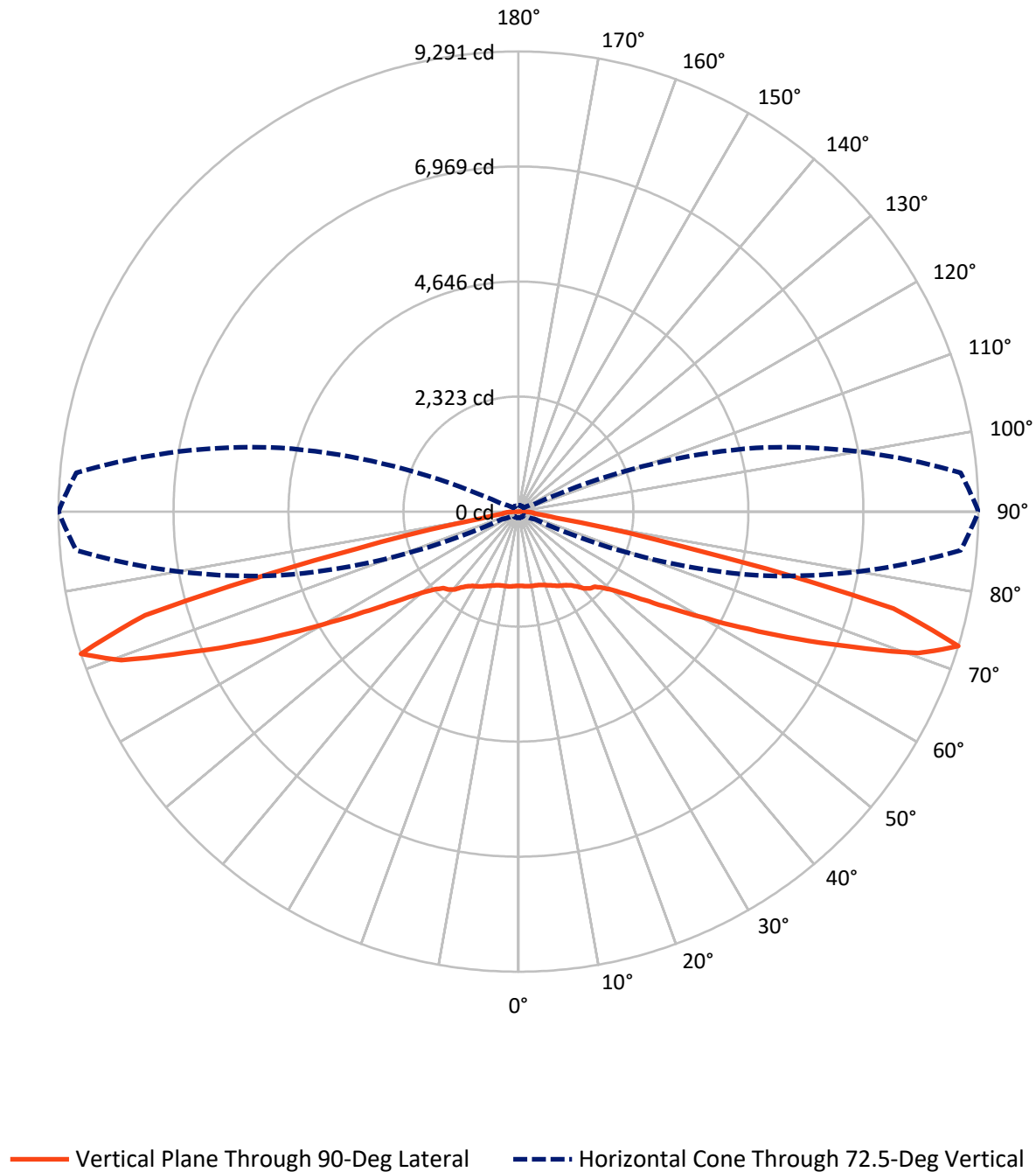


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Luminous Intensity Polar Plot



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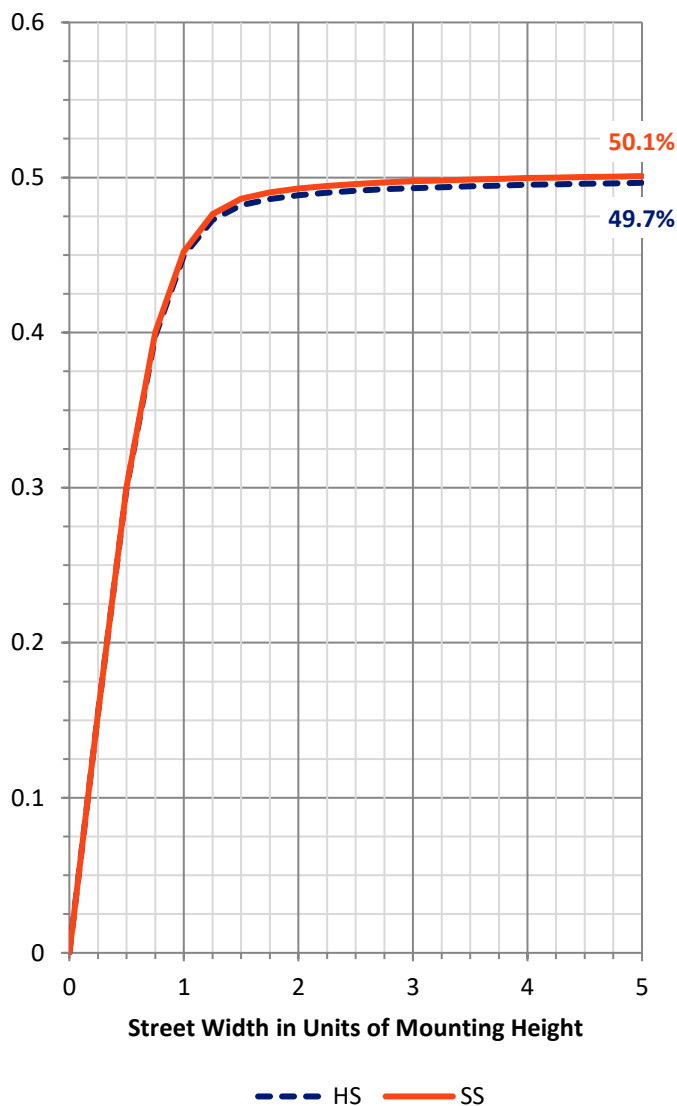
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4018.5	0.0	4018.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4018.5	0.0	4018.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8037.0	0.0	8037.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.6	1.8
10°-20°	445.2	5.5
20°-30°	742.4	9.2
30°-40°	1021.0	12.7
40°-50°	1247.0	15.5
50°-60°	1442.2	17.9
60°-70°	1719.6	21.4
70°-80°	1200.2	14.9
80°-90°	73.7	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°	8037.0	100.0
0°-180°	8037.0	100.0

Coefficient of Utilization



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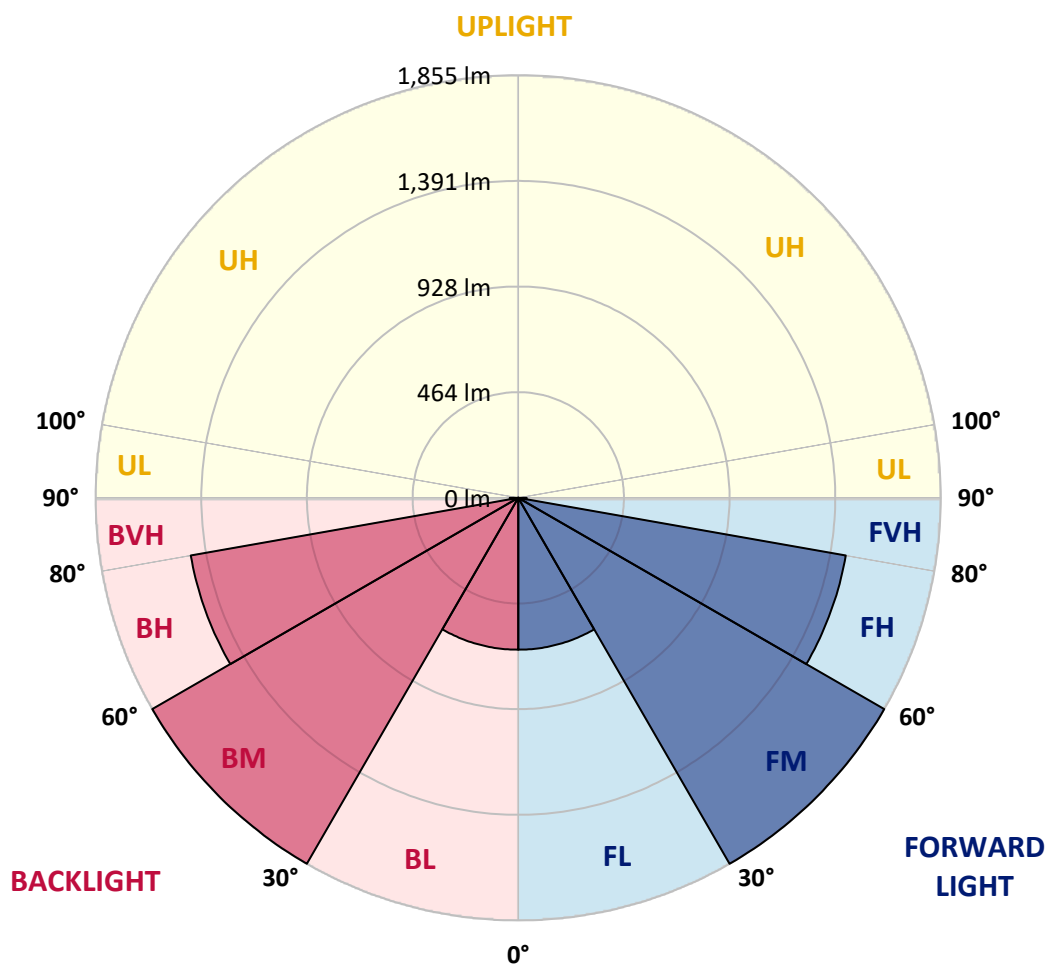
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	666.6	8.3			
FM	(30°-60°)	1855.1	23.1			
FH	(60°-80°)	1459.9	18.2			G1/1800
FVH	(80°-90°)	36.9	0.5			G1/100
BL	(0°-30°)	666.6	8.3	B2/1000		
BM	(30°-60°)	1855.1	23.1	B2/2500		
BH	(60°-80°)	1459.9	18.2	B3/2500		G3/2500
BVH	(80°-90°)	36.9	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°	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8
2.5°	1503.1	1504.8	1504.8	1503.5	1506.5	1504.0	1504.0	1502.6	1504.0	1502.6	1502.6
5°	1510.7	1512.9	1513.7	1513.3	1517.2	1515.1	1515.1	1513.3	1513.7	1512.5	1512.5
7.5°	1525.3	1528.3	1530.0	1532.2	1537.7	1535.1	1533.4	1528.3	1526.1	1522.7	1522.7
10°	1530.0	1533.4	1538.9	1550.1	1562.9	1563.3	1558.2	1545.4	1535.6	1527.9	1526.5
12.5°	1515.5	1520.2	1531.7	1554.3	1582.9	1594.5	1586.4	1565.0	1545.8	1532.2	1530.0
15°	1497.1	1502.2	1519.8	1553.9	1596.2	1623.1	1622.3	1594.1	1563.3	1541.9	1538.5
17.5°	1468.5	1473.6	1498.9	1546.6	1606.5	1650.9	1662.9	1633.7	1590.7	1562.0	1557.3
20°	1416.8	1421.5	1456.5	1523.6	1609.9	1680.4	1711.5	1685.9	1632.1	1593.3	1586.0
22.5°	1349.7	1357.0	1398.0	1483.9	1601.8	1711.1	1767.1	1749.6	1680.4	1626.6	1616.7
25°	1278.0	1285.7	1333.5	1435.2	1580.9	1733.3	1832.8	1821.7	1735.0	1668.0	1654.2
27.5°	1216.1	1224.2	1276.2	1386.9	1548.4	1741.9	1897.8	1903.3	1801.2	1713.7	1699.1
30°	1167.4	1175.1	1230.6	1348.1	1506.5	1733.3	1954.6	1993.0	1868.7	1753.4	1732.5
32.5°	1114.0	1123.8	1182.3	1300.6	1456.9	1712.8	2004.1	2090.0	1946.9	1796.1	1769.7
35°	1046.5	1055.4	1116.9	1235.7	1392.1	1679.9	2045.6	2197.6	2058.8	1861.0	1831.6
37.5°	964.4	973.0	1034.1	1154.6	1327.6	1633.7	2077.2	2319.0	2192.1	1954.6	1915.3
40°	882.0	890.1	947.4	1063.9	1250.2	1574.8	2088.2	2437.7	2345.0	2083.1	2041.3
42.5°	806.5	813.6	866.2	974.7	1163.5	1499.7	2073.8	2541.0	2482.0	2172.8	2119.0
45°	736.8	743.2	789.8	891.0	1073.4	1408.2	2030.2	2652.1	2645.2	2236.9	2164.3
47.5°	657.3	663.8	712.1	809.9	983.3	1301.0	1956.3	2761.5	2872.0	2382.1	2298.4
50°	560.4	565.9	615.5	716.3	889.7	1187.1	1853.7	2847.2	3158.2	2602.1	2497.0
52.5°	445.5	451.5	499.8	600.5	778.7	1064.5	1718.8	2903.2	3488.8	2923.3	2793.8
55°	331.5	335.7	377.6	468.1	641.1	924.8	1549.6	2919.0	3863.8	3362.4	3200.6
57.5°	240.5	243.0	270.0	337.4	486.1	750.1	1344.2	2878.0	4310.2	3925.3	3721.6
60°	194.7	195.7	203.8	233.6	337.8	552.7	1096.0	2737.1	4794.5	4651.0	4394.4
62.5°	176.8	176.8	179.0	187.1	228.5	364.8	795.7	2444.9	5314.0	5568.1	5224.3
65°	164.4	164.4	165.3	169.1	180.3	232.4	502.4	1969.1	5751.8	6642.4	6207.5
67.5°	153.3	153.8	153.3	154.7	161.0	171.7	291.3	1360.0	5987.5	7755.5	7286.0
70°	141.8	142.7	140.5	140.5	145.7	146.1	182.3	745.8	5792.0	8688.3	8564.9
72.5°	128.1	129.5	126.0	125.2	128.9	127.3	137.1	357.9	4972.7	8966.8	9291.4
75°	116.1	117.9	110.2	108.0	108.0	106.8	111.5	183.7	3227.4	7314.7	7823.8
77.5°	105.5	109.0	96.6	89.7	87.9	84.2	91.0	112.3	1411.6	3434.2	3362.8
80°	87.1	91.8	79.4	71.3	68.4	64.1	71.8	78.6	419.8	797.4	763.7
82.5°	64.9	67.0	56.4	50.8	48.3	45.3	53.8	54.6	136.6	282.3	319.1
85°	41.4	42.3	34.6	29.9	28.6	27.4	34.1	29.9	52.1	207.6	301.6
87.5°	14.6	16.7	13.2	12.0	12.8	10.7	15.8	9.0	14.6	146.5	181.5
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)