

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: P881529

Luminaire Tested: **NAV-SB1A-722-U-T3**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P881529  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1A-722-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

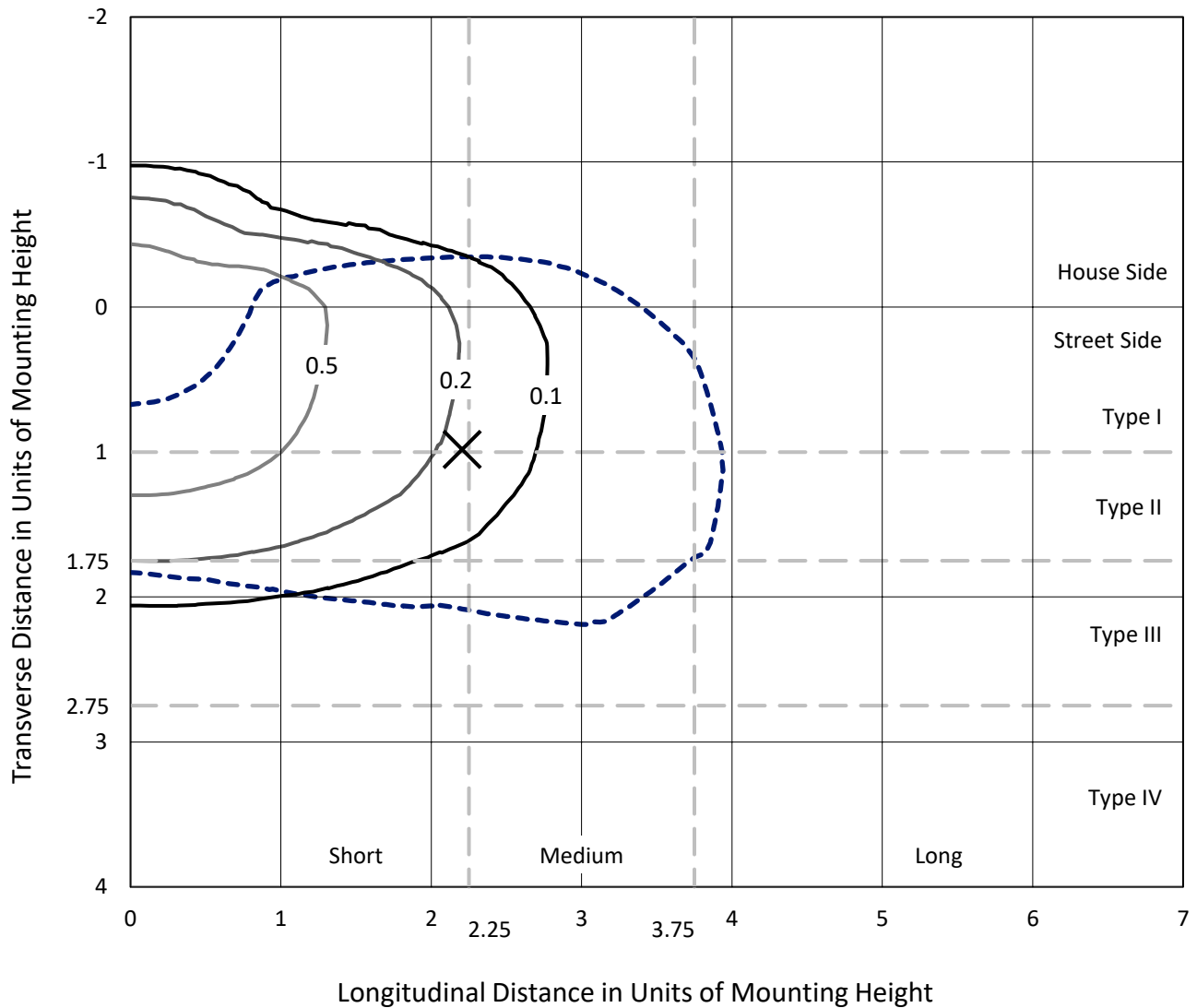
Lumens per Lamp: N/A  
Luminaire Lumens: 3580 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.263  
Voltage Rise (V): NR  
Power Factor: 0.995  
Total Harmonic Distortion (THDi): 6.356  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

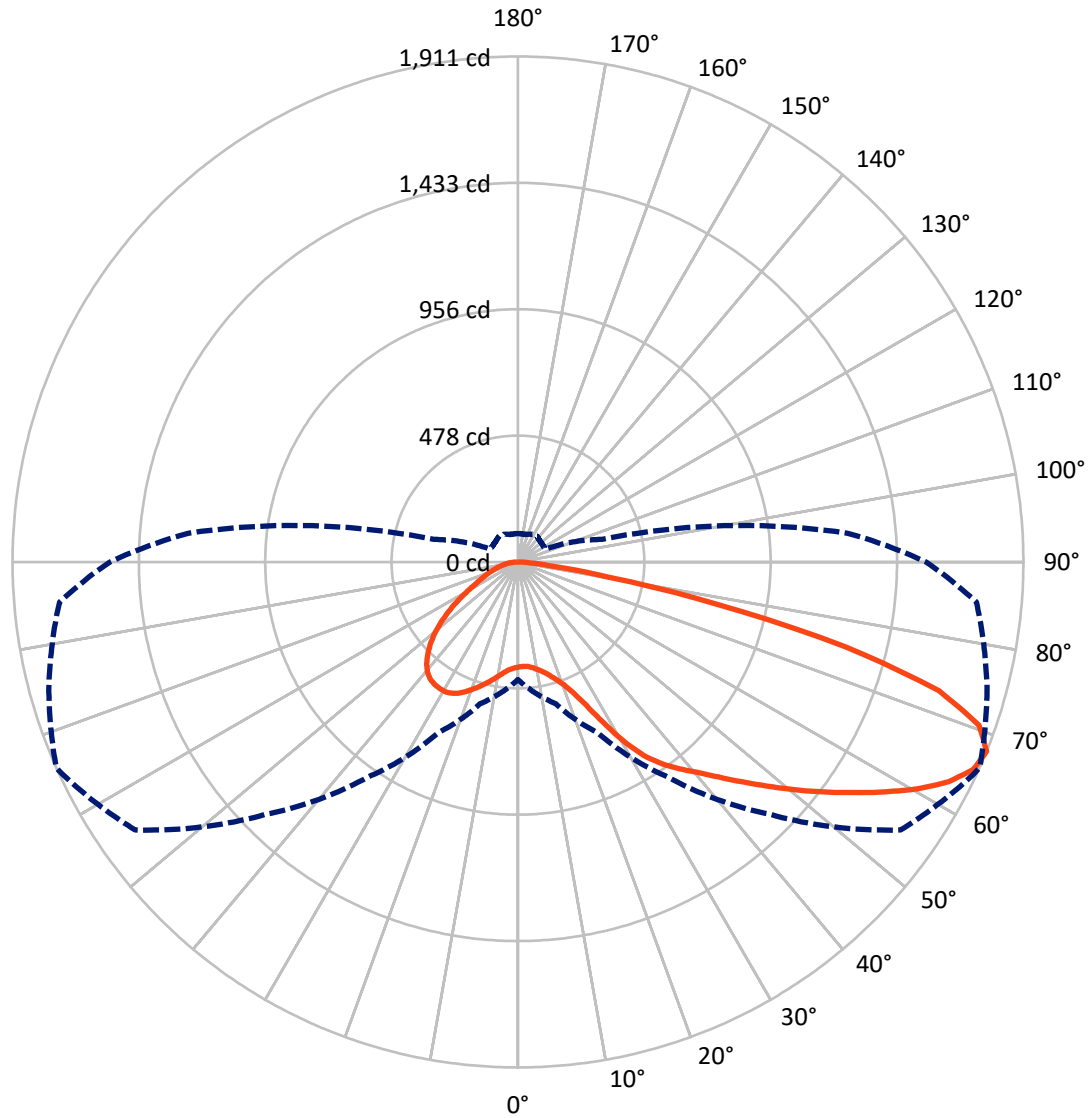
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	890.2	0.0	890.2
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	2689.8	0.0	2689.8
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	3580.0	0.0	3580.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.4	1.1
10°-20°	130.1	3.6
20°-30°	250.7	7.0
30°-40°	439.6	12.3
40°-50°	653.5	18.3
50°-60°	828.4	23.1
60°-70°	810.5	22.6
70°-80°	386.6	10.8
80°-90°	41.3	1.2
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°	3580.0	100.0
0°-180°	3580.0	100.0

**Coefficient of Utilization**



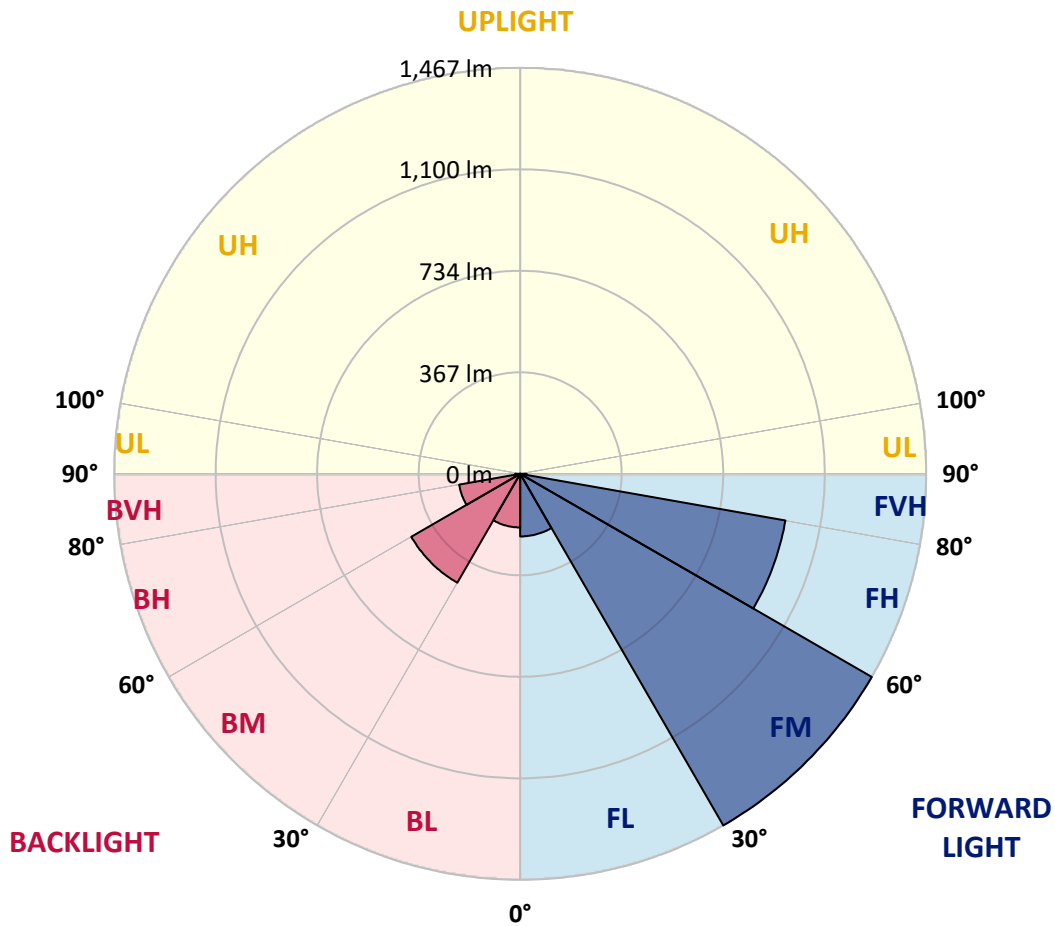
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	226.2	6.3			
FM (30°-60°)	1467.1	41.0			
FH (60°-80°)	973.1	27.2			G1/1800
FVH (80°-90°)	23.4	0.7			G1/100
BL (0°-30°)	193.9	5.4	B1/500		
BM (30°-60°)	454.3	12.7	B1/1000		
BH (60°-80°)	224.0	6.3	B1/500		G1/500
BVH (80°-90°)	17.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1
2.5°	392.9	395.2	394.6	393.7	393.5	393.9	394.4	395.0	394.8	395.8	397.3
5°	391.8	394.1	393.9	393.9	394.6	396.1	397.1	398.0	397.1	398.2	400.3
7.5°	392.6	394.2	395.0	395.8	397.6	400.5	402.7	404.8	403.7	405.0	407.6
10°	402.1	403.5	404.2	404.2	405.5	408.7	411.0	414.8	413.8	415.9	419.3
12.5°	419.6	421.0	421.0	420.2	421.1	423.2	424.0	428.1	426.4	429.8	433.2
15°	441.1	443.7	441.6	440.3	440.7	442.8	442.6	445.8	444.1	446.9	449.9
17.5°	464.8	468.2	464.8	464.6	463.8	466.1	466.3	469.1	466.1	468.2	470.2
20°	492.8	497.5	494.7	495.6	493.9	494.9	495.8	500.0	495.3	496.8	496.2
22.5°	532.3	538.0	534.9	538.5	537.4	536.6	536.4	543.8	536.4	537.0	531.6
25°	589.9	596.6	591.4	596.3	596.3	598.7	601.5	610.9	598.7	595.1	581.0
27.5°	674.9	681.7	671.3	674.3	673.4	679.4	676.4	699.7	686.5	680.7	652.3
30°	777.2	789.2	769.7	768.9	768.0	777.6	781.9	797.3	784.0	778.2	743.9
32.5°	887.8	900.4	877.1	870.3	866.7	872.6	869.0	881.4	872.2	863.2	820.8
35°	1004.8	1017.2	995.0	981.9	967.6	955.3	942.5	945.7	937.1	923.4	879.5
37.5°	1115.4	1138.2	1114.7	1100.5	1074.2	1050.3	1014.6	999.7	991.6	979.0	934.8
40°	1228.1	1241.1	1223.2	1211.1	1182.6	1145.1	1087.9	1056.5	1045.6	1033.4	996.0
42.5°	1311.0	1323.4	1313.8	1305.6	1283.2	1239.7	1165.8	1126.5	1110.7	1097.0	1065.2
45°	1376.9	1386.1	1380.1	1383.1	1373.5	1331.3	1246.5	1201.6	1185.2	1168.4	1143.4
47.5°	1403.4	1413.2	1422.8	1440.6	1457.0	1426.0	1333.2	1282.8	1265.5	1248.4	1223.7
50°	1400.4	1410.3	1438.2	1476.2	1527.0	1516.6	1424.6	1369.3	1353.3	1333.8	1311.0
52.5°	1376.3	1387.6	1423.3	1486.5	1567.4	1584.5	1517.7	1458.7	1443.6	1420.3	1397.5
55°	1313.1	1319.9	1373.5	1463.0	1577.0	1631.9	1609.0	1553.9	1538.8	1506.3	1481.4
57.5°	1195.9	1205.7	1283.8	1399.6	1552.9	1664.1	1689.1	1653.9	1639.4	1592.6	1566.6
60°	1043.0	1058.6	1147.9	1293.2	1491.6	1663.9	1761.9	1752.3	1740.3	1677.6	1650.5
62.5°	869.9	888.0	974.0	1142.7	1384.4	1616.7	1807.4	1834.7	1828.5	1756.1	1721.4
65°	668.1	680.5	766.1	948.0	1217.5	1515.3	1812.7	1890.9	1892.1	1815.7	1758.5
67.5°	444.8	480.6	554.9	711.4	994.1	1349.6	1766.4	1900.1	1911.0	1836.2	1739.9
70°	217.1	264.1	336.9	462.3	711.4	1095.5	1645.5	1824.5	1848.8	1776.4	1628.9
72.5°	90.1	105.3	145.0	228.2	408.4	739.2	1402.4	1619.5	1664.5	1574.0	1369.5
75°	60.8	65.8	83.0	117.0	186.0	364.5	1011.4	1207.6	1280.0	1188.8	971.7
77.5°	46.8	50.0	60.4	81.8	110.6	137.9	541.3	727.7	765.2	708.4	505.6
80°	36.9	39.3	45.1	59.6	78.4	73.7	184.5	329.7	351.4	294.7	162.5
82.5°	32.0	32.9	32.4	40.4	52.1	43.1	60.6	121.7	134.3	97.4	53.0
85°	23.1	25.8	26.9	25.0	27.7	21.8	24.8	43.1	47.4	42.3	29.9
87.5°	9.4	13.9	17.1	16.2	10.2	6.2	7.7	12.6	14.5	15.8	9.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1
2.5°	397.4	398.8	399.7	400.8	401.6	402.7	405.0	406.3	406.5	407.4	407.2
5°	401.0	402.9	405.0	408.0	411.4	414.2	418.5	421.5	422.7	423.6	423.4
7.5°	408.7	411.4	415.1	420.4	425.3	429.0	434.3	437.9	441.5	442.8	443.0
10°	420.2	424.0	429.4	436.6	441.8	446.7	452.2	455.2	458.8	460.3	461.0
12.5°	434.5	438.5	445.6	455.6	460.5	463.8	465.7	465.0	465.7	467.0	467.4
15°	450.9	455.2	463.3	474.0	477.4	474.4	470.2	466.5	465.9	466.3	467.6
17.5°	470.2	473.4	482.8	491.9	489.4	477.0	468.0	462.0	459.0	458.0	459.3
20°	497.3	497.3	505.0	510.7	494.3	473.2	459.1	449.4	443.2	440.5	440.0
22.5°	530.2	527.2	532.1	528.2	493.4	462.7	443.2	426.2	416.8	413.1	412.5
25°	572.0	568.4	567.1	542.7	486.6	446.0	414.2	393.7	385.4	383.3	383.7
27.5°	635.0	626.0	608.9	550.6	474.2	419.6	380.3	361.3	356.6	356.8	357.4
30°	718.9	700.8	658.9	551.9	453.9	382.4	345.7	332.2	329.9	330.9	334.1
32.5°	796.6	779.5	710.1	545.9	422.7	345.9	314.7	305.7	302.3	303.4	304.9
35°	857.5	852.8	757.5	537.4	384.3	311.7	286.8	279.1	272.6	271.0	272.2
37.5°	915.1	913.2	793.0	525.5	346.3	287.4	264.5	254.3	244.7	239.4	239.6
40°	978.3	976.4	816.3	507.3	312.6	266.3	244.3	231.0	219.1	209.5	210.5
42.5°	1049.4	1038.3	827.4	481.1	284.0	248.5	228.0	209.9	194.3	185.5	186.0
45°	1127.1	1102.1	827.2	447.9	259.9	232.1	210.5	184.9	170.4	162.1	161.8
47.5°	1209.5	1163.0	817.1	411.0	236.6	214.1	183.4	163.8	154.2	149.2	148.0
50°	1294.5	1220.0	799.8	368.7	212.7	193.6	166.5	153.1	145.8	141.1	139.4
52.5°	1374.4	1271.7	778.9	320.7	188.5	173.6	158.9	148.6	140.9	135.6	133.4
55°	1448.7	1316.3	749.4	271.6	168.7	160.3	155.4	146.7	137.9	131.7	129.2
57.5°	1514.7	1345.3	698.4	225.5	154.6	151.0	151.6	143.5	133.4	128.1	124.7
60°	1569.7	1366.5	623.0	182.8	143.1	142.0	145.8	137.5	125.6	119.6	117.0
62.5°	1602.6	1366.1	530.4	149.7	133.4	133.7	138.1	130.0	117.9	112.3	110.6
65°	1599.8	1332.7	428.9	128.1	124.0	124.3	130.0	121.7	111.5	108.2	108.0
67.5°	1543.1	1251.0	329.0	114.0	113.6	115.3	121.9	116.1	107.6	107.2	107.8
70°	1389.8	1081.5	237.0	102.7	102.9	105.3	114.0	112.5	105.5	106.3	106.1
72.5°	1114.5	824.6	159.1	90.9	91.0	95.0	106.5	109.7	103.5	113.4	114.9
75°	742.2	514.3	102.3	78.2	78.4	83.5	99.9	104.2	97.8	113.0	114.0
77.5°	356.6	231.2	74.1	65.8	65.8	70.5	86.3	93.3	83.3	87.8	80.5
80°	123.2	86.9	58.3	53.0	51.9	55.1	72.8	80.9	71.9	66.2	62.1
82.5°	48.5	45.1	46.8	41.2	37.4	39.5	56.6	66.8	52.9	47.8	47.6
85°	27.8	29.3	33.1	27.3	21.6	24.3	41.6	48.0	39.9	35.2	35.9
87.5°	7.5	10.3	15.2	14.1	9.8	10.3	19.8	26.5	22.9	17.7	18.2
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)