

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: P881531

Luminaire Tested: **NAV-SB1A-722-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-722-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3536 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

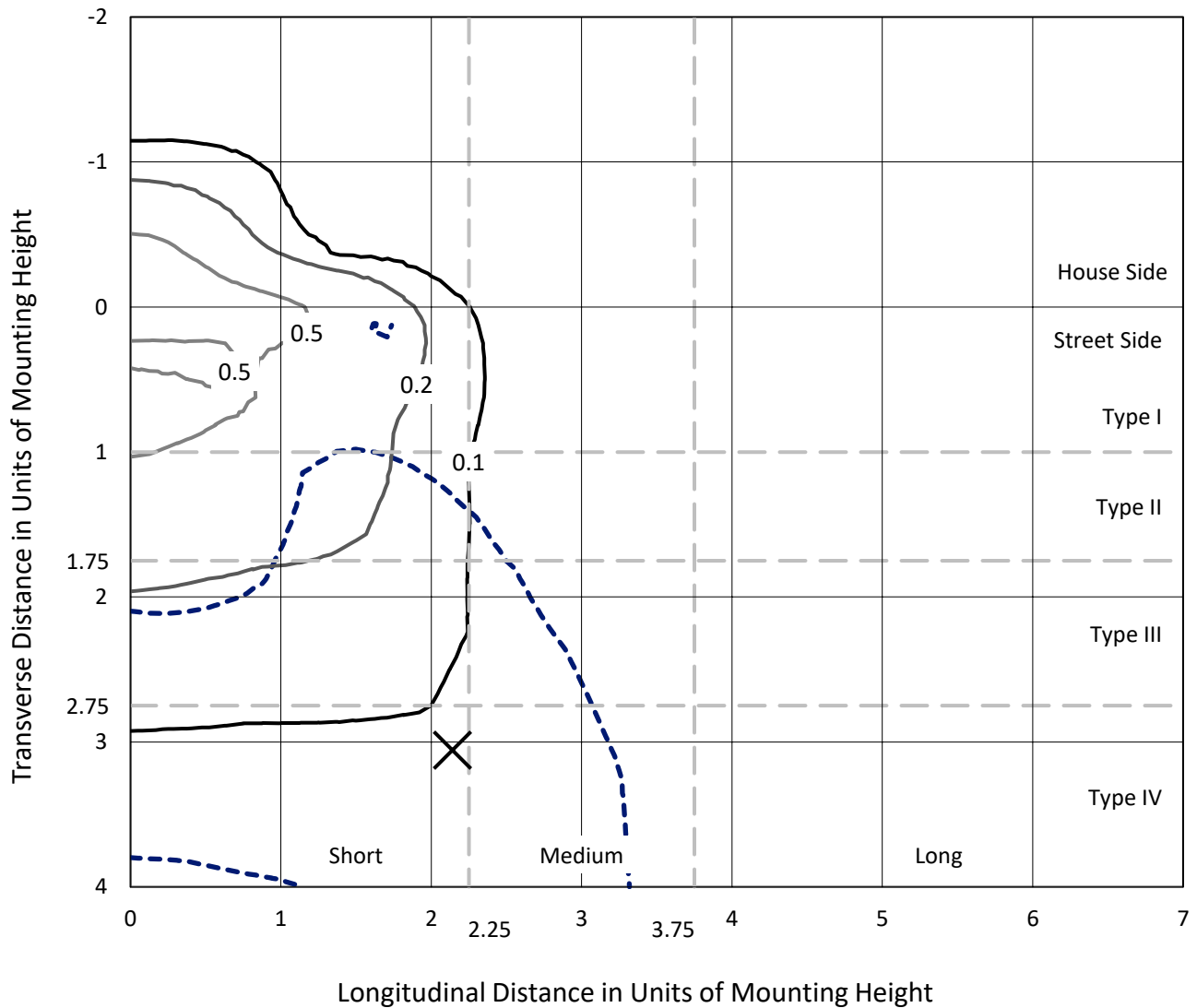
Input Watts (W): 30.9
Input Voltage (V): 120.0
Input Current (Ain): 0.263
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 6.356
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

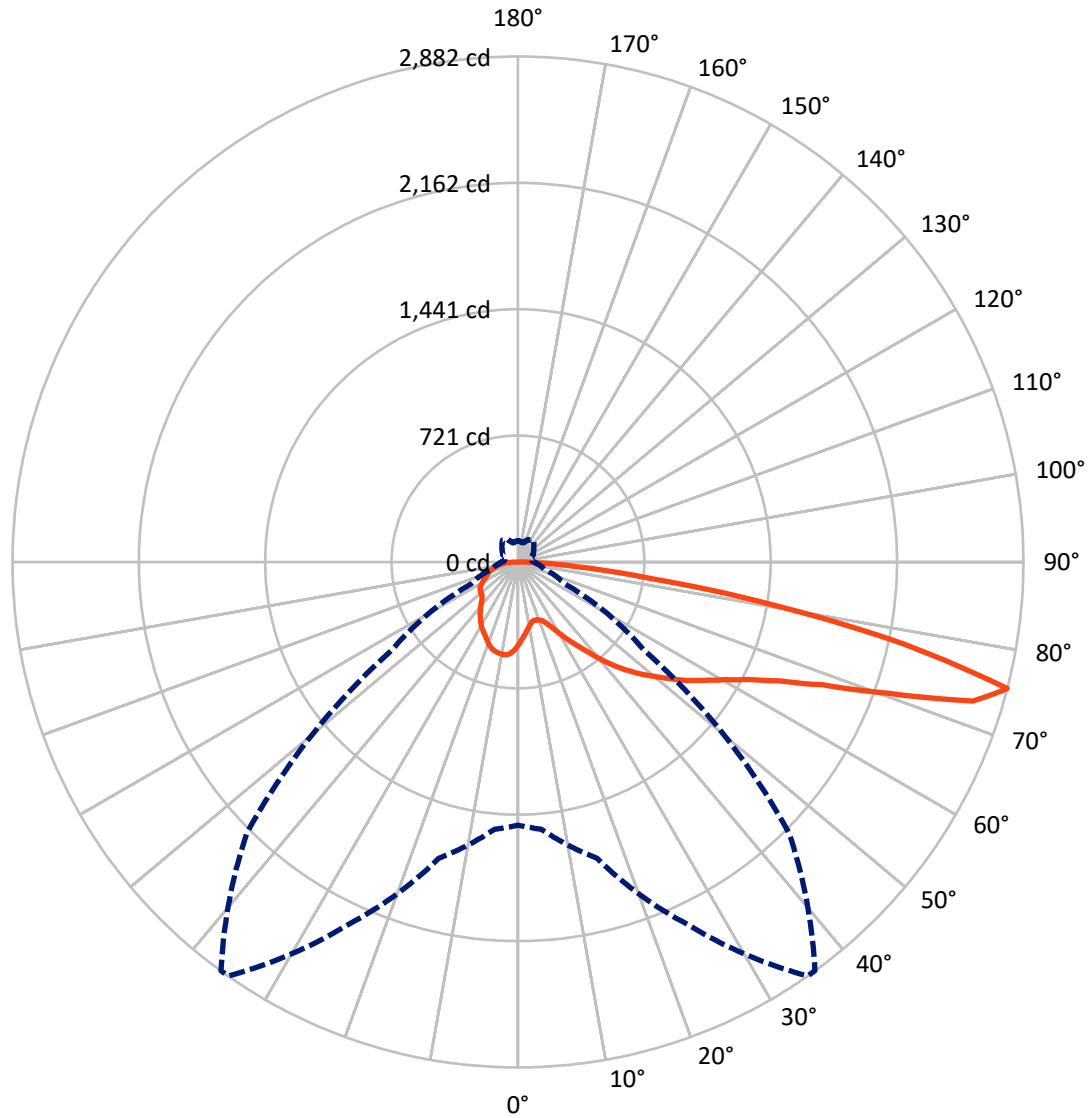
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	841.5	0.0	841.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	2694.5	0.0	2694.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	3536.0	0.0	3536.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	1.3
10°-20°	128.7	3.6
20°-30°	216.1	6.1
30°-40°	335.8	9.5
40°-50°	498.5	14.1
50°-60°	688.2	19.5
60°-70°	834.9	23.6
70°-80°	690.0	19.5
80°-90°	99.2	2.8
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°	3536.0	100.0
0°-180°	3536.0	100.0



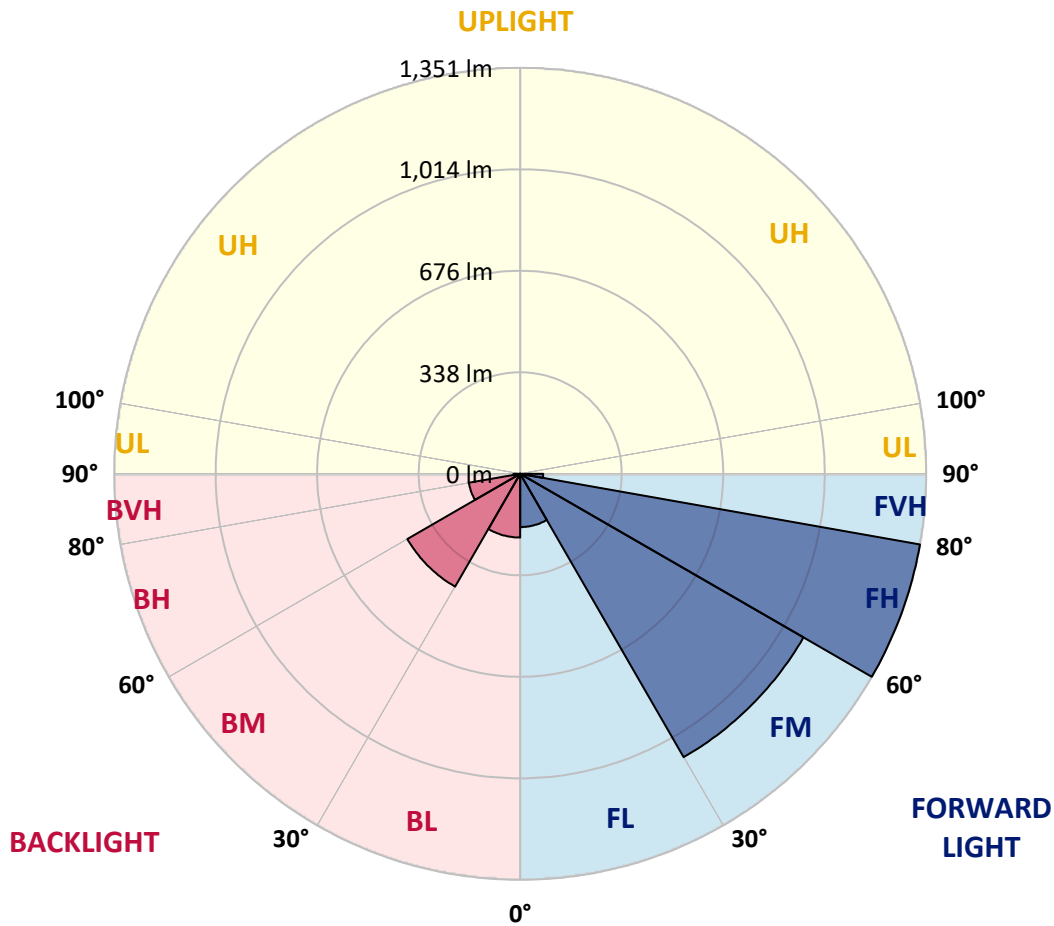
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	177.3	5.0			
FM (30°-60°)	1088.9	30.8			
FH (60°-80°)	1351.4	38.2			G1/1800
FVH (80°-90°)	76.9	2.2			G1/100
BL (0°-30°)	212.1	6.0	B1/500		
BM (30°-60°)	433.6	12.3	B1/1000		
BH (60°-80°)	173.5	4.9	B1/500		G1/500
BVH (80°-90°)	22.4	0.6			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	471.2	471.2	471.2	471.2	471.2	471.2	471.2	471.2	471.2	471.2	471.2
2.5°	434.5	437.2	438.3	437.7	440.6	440.2	444.2	449.2	456.1	462.8	472.5
5°	401.0	403.9	406.4	408.7	414.2	416.0	422.3	431.8	444.4	457.2	473.3
7.5°	369.9	372.4	376.2	380.4	389.8	391.5	402.0	416.9	434.5	453.2	475.4
10°	344.5	346.9	351.0	355.7	367.4	369.5	382.9	402.8	425.7	449.4	477.7
12.5°	333.6	334.3	336.6	341.4	351.5	352.9	367.6	390.3	417.1	446.5	481.1
15°	333.0	334.5	334.7	337.2	345.6	346.2	359.8	382.3	411.7	446.0	486.3
17.5°	338.7	339.9	338.2	339.7	346.8	347.7	358.4	378.5	410.0	448.4	495.1
20°	354.0	355.0	349.8	347.7	352.9	353.6	364.1	381.0	411.7	453.6	507.1
22.5°	386.5	387.1	374.5	365.9	366.3	366.6	375.8	391.1	418.4	463.0	522.4
25°	437.2	436.8	416.7	400.1	390.5	388.4	394.5	407.5	429.7	475.4	542.1
27.5°	496.4	493.6	473.5	448.6	427.8	424.7	423.4	429.0	445.8	491.8	566.2
30°	563.3	560.7	539.1	506.6	477.7	472.7	460.1	457.2	469.7	514.2	599.7
32.5°	636.7	635.0	609.2	569.8	531.2	525.5	504.3	496.6	506.4	548.0	646.3
35°	698.3	696.8	675.3	634.8	587.6	580.5	558.9	550.3	555.3	591.4	707.3
37.5°	753.9	753.1	734.8	702.9	654.1	645.5	621.3	618.4	617.4	648.6	781.2
40°	805.5	803.6	784.5	767.7	731.5	723.7	702.3	699.8	692.6	718.9	865.0
42.5°	862.7	857.7	830.0	822.2	812.4	805.9	793.1	793.5	777.4	798.3	953.7
45°	909.3	906.5	878.0	873.4	883.9	881.2	892.3	895.2	864.0	881.4	1045.8
47.5°	959.4	956.7	932.6	929.4	957.9	958.6	997.8	998.8	948.5	967.8	1138.1
50°	1021.1	1017.3	993.4	997.4	1029.4	1032.2	1103.9	1097.4	1026.3	1055.6	1229.7
52.5°	1061.9	1064.2	1059.0	1065.5	1109.1	1111.8	1208.3	1191.7	1103.3	1142.1	1319.5
55°	1091.9	1096.5	1112.5	1127.4	1193.2	1195.9	1306.7	1281.3	1167.2	1222.4	1404.0
57.5°	1130.5	1124.0	1154.0	1183.1	1273.1	1280.2	1402.5	1367.7	1223.8	1291.6	1461.9
60°	1185.9	1181.3	1204.7	1247.7	1362.5	1373.8	1503.8	1445.5	1265.3	1346.5	1473.2
62.5°	1298.3	1286.9	1290.5	1328.5	1475.3	1490.2	1618.1	1513.4	1285.9	1367.9	1412.8
65°	1466.3	1446.7	1428.3	1454.7	1634.2	1648.9	1747.2	1566.7	1278.3	1326.4	1252.4
67.5°	1678.0	1658.5	1635.9	1660.8	1868.2	1879.8	1906.4	1596.7	1218.0	1166.6	969.0
70°	1852.5	1845.2	1872.2	1974.4	2241.9	2242.2	2110.5	1571.9	1053.1	827.1	560.7
72.5°	1829.3	1825.0	1967.0	2283.1	2712.9	2702.7	2303.8	1383.8	709.4	373.1	210.1
75°	1500.8	1529.2	1749.3	2277.6	2882.0	2880.7	2185.5	879.7	293.4	154.6	108.6
77.5°	804.8	849.9	1135.6	1681.6	2249.9	2283.7	1536.5	307.8	126.0	99.0	75.1
80°	262.5	301.8	452.7	856.2	1461.9	1455.6	658.5	120.8	86.2	70.2	52.0
82.5°	111.4	116.0	202.2	404.3	750.3	738.6	209.7	69.4	60.6	48.0	32.1
85°	43.6	48.7	89.3	186.9	325.0	317.9	75.7	34.4	38.8	31.3	19.1
87.5°	14.3	17.4	31.9	64.0	101.1	97.5	18.5	11.9	16.8	14.3	6.9
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°	471.2	471.2	471.2	471.2	471.2	471.2	471.2	471.2	471.2	471.2	471.2
2.5°	475.2	478.3	481.9	487.3	491.8	495.7	499.7	502.2	503.1	506.0	505.8
5°	478.7	485.3	494.3	503.1	511.7	516.9	521.5	523.8	525.9	527.4	527.8
7.5°	484.4	493.0	507.1	518.6	525.9	530.1	533.1	532.4	533.1	533.5	534.1
10°	489.4	501.4	518.2	529.1	534.7	534.9	534.1	531.4	530.1	530.3	530.6
12.5°	495.3	508.7	526.8	536.0	537.5	533.3	530.1	525.5	523.8	523.0	522.6
15°	503.3	518.6	536.2	539.6	535.8	530.5	524.9	517.5	513.6	510.6	511.5
17.5°	513.1	529.9	543.5	541.0	532.7	524.0	515.0	503.7	495.9	492.6	492.8
20°	526.6	541.7	549.0	538.1	525.7	512.3	497.0	483.2	476.0	472.7	472.3
22.5°	543.1	557.6	554.3	533.1	515.5	494.1	475.0	464.9	461.3	459.0	459.3
25°	562.8	575.2	558.2	525.9	498.9	470.0	455.3	452.1	450.4	448.6	448.6
27.5°	588.4	595.1	561.0	515.2	472.9	444.4	439.1	439.7	439.1	436.2	436.8
30°	622.2	620.9	563.7	497.8	443.1	421.3	421.7	424.2	424.6	422.6	423.6
32.5°	666.7	653.2	565.1	475.2	414.6	401.0	401.4	404.1	406.0	402.8	404.3
35°	720.7	690.8	563.0	446.9	392.6	381.7	378.9	379.6	380.2	377.1	379.3
37.5°	783.5	733.1	553.6	415.6	374.5	362.8	356.7	351.5	348.5	345.6	347.5
40°	852.5	779.1	536.4	385.0	354.2	342.7	333.6	323.8	313.5	309.7	311.4
42.5°	924.8	826.6	515.5	355.7	330.9	321.5	311.8	297.6	282.1	274.3	275.3
45°	999.7	875.1	495.1	326.9	307.0	303.0	291.7	274.7	257.9	247.9	247.2
47.5°	1073.1	921.0	465.1	297.8	284.6	289.0	280.2	264.6	245.8	230.2	228.4
50°	1143.3	964.0	416.0	268.4	266.5	284.8	276.4	253.9	232.4	212.4	210.7
52.5°	1212.9	998.8	353.1	241.6	256.7	283.7	271.4	246.6	220.4	199.4	197.1
55°	1271.9	1016.8	292.5	218.7	242.6	273.9	265.5	238.0	203.4	181.0	179.1
57.5°	1305.6	1002.2	242.0	196.1	223.1	257.9	255.4	219.6	183.1	165.9	163.6
60°	1291.1	943.3	200.7	176.4	204.5	240.5	237.8	201.5	167.6	151.4	149.1
62.5°	1211.0	831.1	168.0	159.2	187.7	222.7	220.2	187.5	155.8	140.1	137.6
65°	1049.6	676.1	142.6	144.9	170.7	201.3	204.9	175.9	146.4	131.1	128.6
67.5°	800.6	489.7	122.7	132.5	154.1	180.3	190.8	167.5	138.6	124.1	121.8
70°	456.3	278.1	105.9	120.4	139.4	160.8	179.9	160.8	130.2	118.1	116.6
72.5°	173.0	127.7	91.6	108.4	125.2	144.3	167.8	150.2	120.4	111.4	109.9
75°	92.3	77.8	77.0	94.2	109.0	128.3	152.7	139.9	113.2	117.8	121.6
77.5°	62.9	55.1	64.4	80.7	91.2	110.5	136.7	124.3	98.1	97.7	90.0
80°	43.6	39.0	52.4	65.0	70.5	92.9	119.3	106.7	79.9	74.6	71.3
82.5°	26.2	25.4	39.2	48.6	49.9	71.7	98.8	89.5	65.4	57.0	57.3
85°	14.3	15.1	25.0	28.5	29.1	50.1	77.4	69.2	50.3	42.2	42.6
87.5°	4.0	5.2	9.2	11.3	14.0	26.0	46.1	41.1	25.2	17.6	17.6
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)