

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: McGRAW-EDISON

Report Number: P938722

Luminaire Tested: **GALN-SB1A-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB1A-727-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4126 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

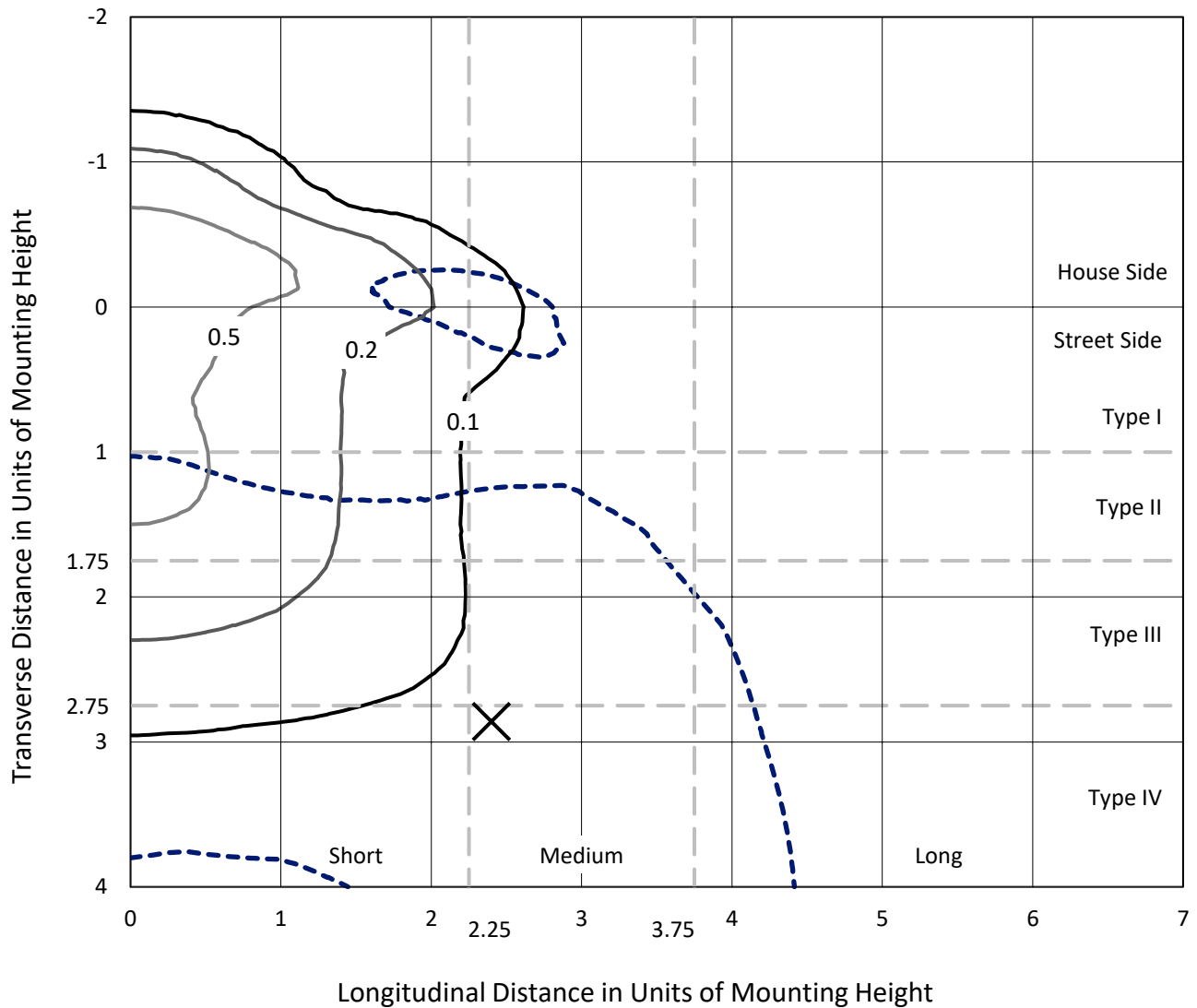
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

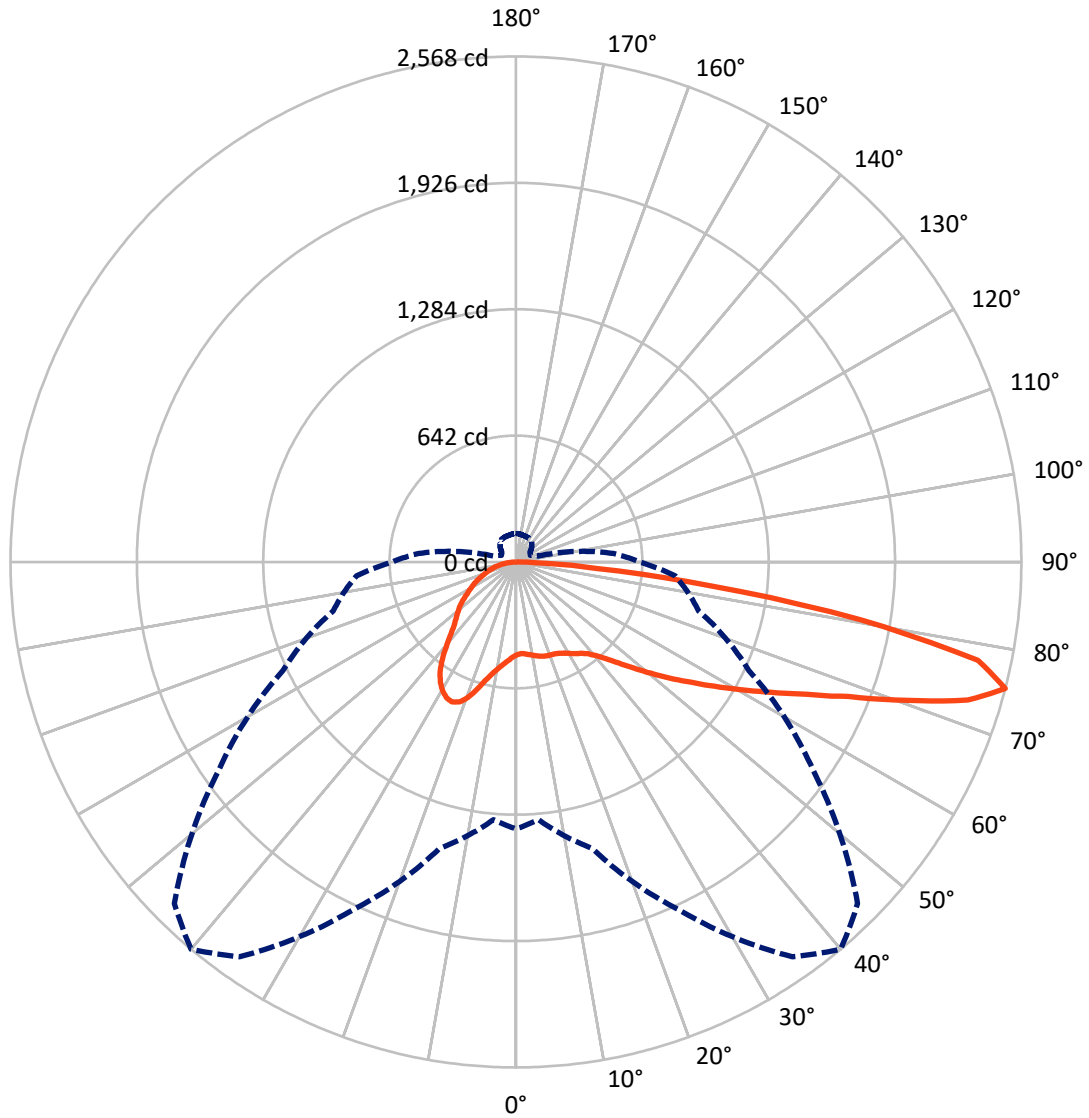
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1278.4	0.0	1278.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	2847.6	0.0	2847.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	4126.0	0.0	4126.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.1	1.1
10°-20°	158.1	3.8
20°-30°	288.7	7.0
30°-40°	409.5	9.9
40°-50°	552.9	13.4
50°-60°	743.8	18.0
60°-70°	944.1	22.9
70°-80°	856.8	20.8
80°-90°	124.9	3.0
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°	4126.0	100.0
0°-180°	4126.0	100.0

Coefficient of Utilization



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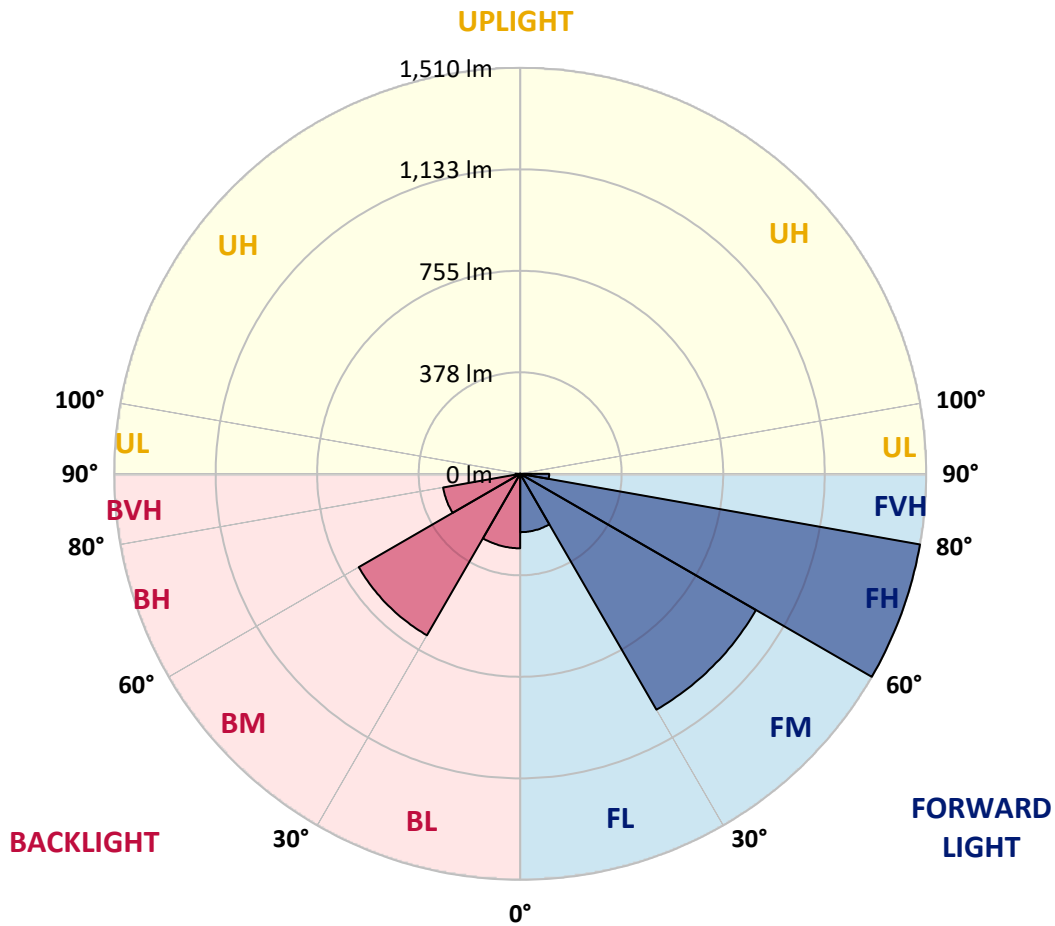
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	217.0	5.3			
FM (30°-60°)	1012.8	24.5			
FH (60°-80°)	1510.1	36.6			G1/1800
FVH (80°-90°)	107.7	2.6			G2/225
BL (0°-30°)	276.9	6.7	B1/500		
BM (30°-60°)	693.4	16.8	B1/1000		
BH (60°-80°)	290.9	7.0	B1/500		G1/500
BVH (80°-90°)	17.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	471.8	471.8	471.8	471.8	471.8	471.8	471.8	471.8	471.8	471.8	471.8
2.5°	464.6	467.2	466.6	465.7	465.7	465.9	465.7	467.2	468.7	470.3	472.7
5°	469.4	472.0	470.7	469.6	468.7	468.5	467.9	467.7	468.5	470.5	473.8
7.5°	478.8	481.4	479.5	477.5	475.8	474.9	474.0	472.7	472.0	473.1	477.7
10°	489.3	491.9	489.5	486.0	483.2	482.1	481.2	479.9	479.0	479.7	484.7
12.5°	499.8	502.5	499.2	494.4	490.6	490.0	488.9	488.4	488.2	488.0	493.0
15°	509.7	511.9	507.7	502.0	498.1	497.0	495.9	496.5	497.6	498.9	504.6
17.5°	517.3	519.5	513.4	506.0	502.2	501.8	501.1	503.3	506.4	509.7	516.7
20°	524.3	526.5	518.6	508.6	504.2	504.2	504.4	509.0	513.4	518.2	527.8
22.5°	534.2	535.9	526.3	512.5	506.2	506.6	508.4	513.0	518.4	525.0	538.3
25°	548.8	550.2	538.3	520.0	512.7	514.0	515.6	517.8	523.0	530.7	548.6
27.5°	572.5	573.6	558.0	533.1	522.1	524.3	526.5	525.0	527.4	534.0	556.9
30°	605.7	606.4	586.7	553.7	538.1	539.2	539.7	533.3	528.7	534.0	562.8
32.5°	645.1	644.9	621.5	578.6	556.3	555.2	551.5	539.0	528.3	532.9	568.1
35°	706.2	703.8	673.6	613.6	576.9	570.1	561.3	545.3	530.5	531.8	572.7
37.5°	807.3	799.9	758.1	671.0	607.5	590.2	577.3	555.6	535.3	531.3	578.2
40°	921.3	911.9	865.9	749.5	653.4	625.7	604.9	570.3	543.2	533.3	586.3
42.5°	1056.5	1043.2	993.7	842.1	711.7	671.4	640.1	588.9	554.8	539.7	597.2
45°	1222.6	1204.9	1134.9	946.5	785.0	731.4	689.6	617.1	572.5	551.9	613.6
47.5°	1390.5	1394.9	1295.3	1066.0	872.9	805.3	751.5	659.6	598.3	571.6	640.1
50°	1568.8	1571.9	1454.8	1198.4	972.7	888.9	821.1	707.1	634.2	599.6	679.7
52.5°	1708.0	1708.5	1599.7	1336.9	1076.7	980.8	896.1	761.3	675.8	636.8	732.4
55°	1795.1	1794.0	1701.2	1468.0	1196.2	1077.3	979.3	823.0	726.5	680.6	798.8
57.5°	1858.4	1855.1	1771.3	1580.7	1323.5	1191.4	1073.4	893.1	786.5	732.7	886.1
60°	1882.4	1880.5	1818.8	1678.0	1457.5	1317.4	1181.9	971.4	854.6	794.2	998.3
62.5°	1891.6	1895.4	1865.4	1772.4	1600.8	1457.0	1301.2	1065.1	931.2	863.8	1116.7
65°	1924.0	1930.8	1924.7	1895.8	1762.7	1620.5	1459.4	1176.5	1014.7	938.4	1240.4
67.5°	1988.1	1994.9	1997.5	2043.5	1960.6	1824.2	1656.8	1315.2	1112.6	1015.8	1333.4
70°	1986.6	1984.6	2031.0	2161.0	2208.3	2106.3	1922.9	1485.9	1229.2	1080.2	1345.2
72.5°	1808.3	1792.5	1902.1	2159.7	2414.4	2400.9	2247.9	1706.1	1329.9	1088.1	1167.3
75°	1356.6	1314.6	1508.2	1946.3	2448.8	2568.1	2454.5	1842.6	1306.0	961.4	812.3
77.5°	580.1	537.9	766.2	1440.8	2191.7	2400.6	2265.0	1607.6	1042.5	635.7	398.9
80°	151.9	151.7	231.5	653.2	1490.5	1772.8	1555.3	1038.2	595.7	227.2	110.1
82.5°	62.8	61.3	85.1	254.1	728.3	994.8	811.9	463.1	215.1	61.5	36.5
85°	23.4	23.2	41.4	87.8	256.9	410.3	297.0	118.4	53.6	30.0	16.4
87.5°	6.6	6.3	9.0	30.4	62.6	95.0	50.8	19.5	15.1	11.8	4.8
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°	471.8	471.8	471.8	471.8	471.8	471.8	471.8	471.8	471.8	471.8	471.8
2.5°	473.3	474.4	476.4	477.9	479.9	482.1	485.2	487.1	489.1	490.4	489.5
5°	475.3	477.7	482.8	487.8	493.7	499.2	505.5	510.1	513.8	514.9	515.4
7.5°	479.7	483.6	492.2	500.7	510.1	519.1	528.3	536.2	542.5	544.9	545.1
10°	487.4	492.6	504.6	516.7	529.1	542.9	554.8	566.1	575.1	578.8	579.0
12.5°	497.0	503.5	519.3	535.9	553.2	572.3	587.6	601.6	612.7	617.8	617.8
15°	509.5	518.0	538.1	560.4	585.8	612.3	631.8	647.3	659.8	665.9	665.5
17.5°	523.0	534.4	559.8	593.5	629.8	664.6	687.4	698.7	711.7	717.6	717.3
20°	536.2	550.2	586.5	635.5	683.9	720.9	739.2	742.3	743.2	743.8	745.6
22.5°	549.7	568.5	620.0	688.5	740.3	765.9	768.6	755.4	737.0	728.5	730.9
25°	564.6	589.5	663.7	746.9	788.9	792.0	771.8	739.9	705.1	689.1	691.5
27.5°	579.0	613.8	716.3	802.7	823.9	797.0	753.7	708.4	666.4	649.5	651.5
30°	593.5	641.6	774.2	851.5	839.9	784.5	725.0	674.5	632.2	614.5	616.5
32.5°	608.1	674.0	841.0	886.7	837.1	758.1	689.3	636.4	599.2	580.6	583.0
35°	624.8	713.8	904.2	906.0	818.0	719.1	642.3	590.9	558.5	543.6	546.9
37.5°	646.4	764.4	960.0	910.8	784.8	662.0	583.9	537.0	510.3	503.5	508.4
40°	673.4	825.2	1002.7	903.1	735.5	592.6	520.0	482.5	467.4	469.0	474.2
42.5°	708.4	893.3	1032.7	883.4	667.0	521.1	463.9	447.3	454.5	460.7	466.3
45°	753.9	964.0	1051.3	850.0	589.5	460.4	430.9	434.8	440.3	441.0	445.3
47.5°	812.1	1035.5	1063.6	799.4	510.5	417.8	409.9	410.8	409.7	405.1	408.6
50°	884.8	1105.1	1074.5	732.4	443.4	391.1	380.6	377.5	362.4	347.5	349.5
52.5°	967.5	1169.0	1079.1	649.3	391.1	368.7	351.7	332.4	304.2	299.6	301.1
55°	1059.4	1228.1	1067.3	547.1	347.1	340.1	314.3	291.1	288.0	284.1	284.7
57.5°	1169.2	1291.8	1043.2	433.1	302.0	306.6	281.4	284.1	278.6	272.5	271.4
60°	1289.4	1357.7	1001.0	329.1	255.4	264.8	272.9	272.7	271.1	266.1	264.4
62.5°	1397.5	1401.0	917.8	252.1	214.5	232.4	254.5	254.3	253.0	250.1	249.0
65°	1461.8	1394.4	779.1	198.5	180.8	205.7	229.6	231.3	231.5	231.3	231.3
67.5°	1450.5	1317.6	588.7	158.0	153.0	178.6	204.8	207.2	209.0	209.4	209.9
70°	1321.8	1148.9	383.8	126.1	128.2	154.7	181.4	183.8	185.4	187.1	188.0
72.5°	1030.3	844.7	219.7	102.0	106.6	134.1	158.2	161.1	161.9	165.2	166.5
75°	627.8	496.8	118.6	80.3	87.5	114.7	135.2	138.5	140.1	144.0	144.4
77.5°	298.5	215.1	67.6	62.6	70.5	93.7	114.2	118.0	113.8	116.0	114.2
80°	100.9	79.9	42.7	47.7	53.8	73.1	91.5	95.2	86.4	86.0	85.1
82.5°	35.2	32.4	27.1	31.7	34.8	52.3	69.2	74.0	64.3	64.1	61.1
85°	13.8	13.1	15.1	17.3	20.8	32.2	45.5	47.9	39.6	32.0	31.5
87.5°	2.8	3.1	3.7	3.9	6.3	11.2	16.4	20.1	16.0	13.6	12.5
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)