

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: STREETWORKS

Report Number: P881536

Luminaire Tested: **NVN-SB1A-727-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1A-727-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2971 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

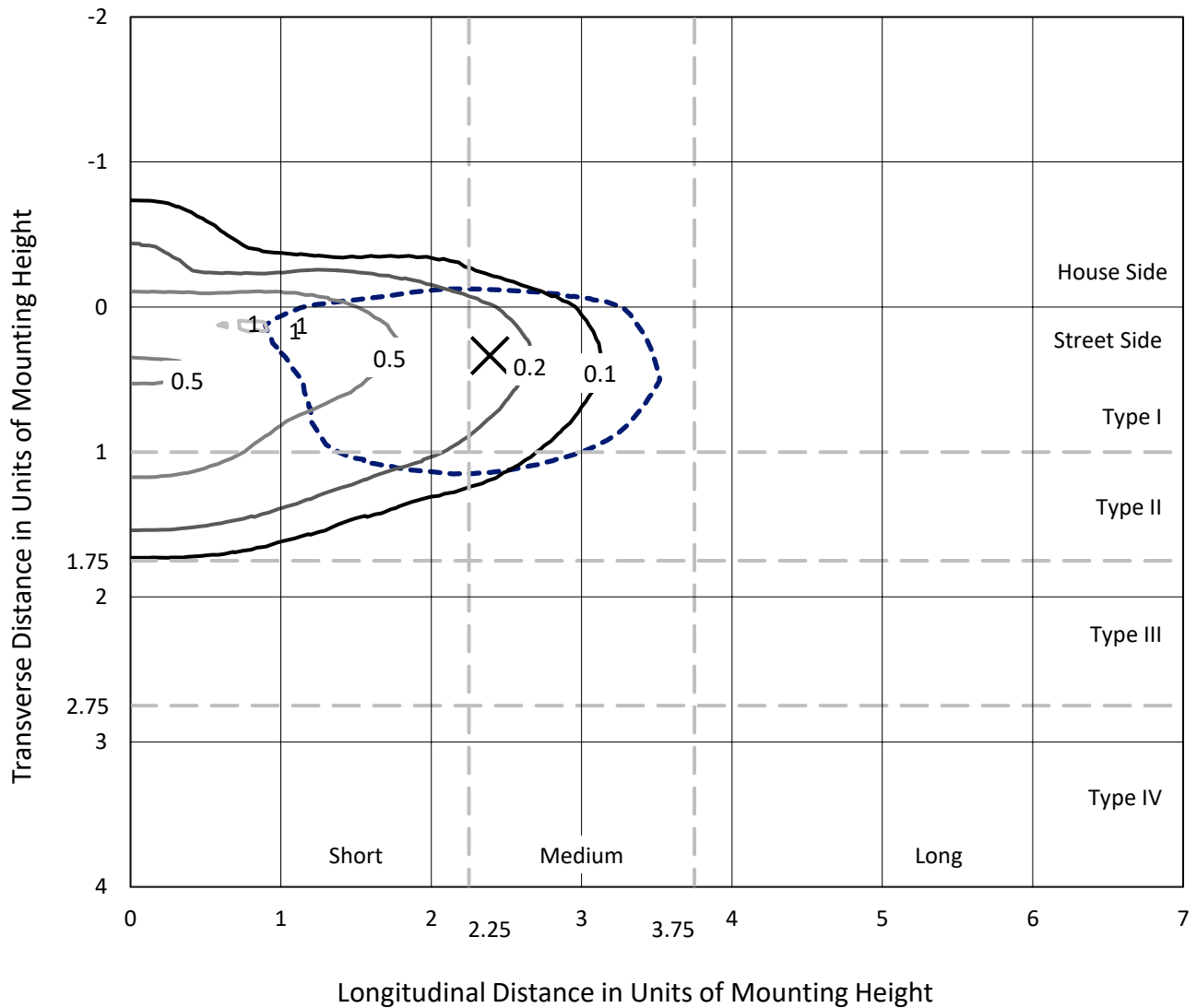
Input Watts (W): 30.9
Input Voltage (V): 120.0
Input Current (Ain): 0.263
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 6.356
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P881536
 CATALOG NUMBER: NVN-SB1A-727-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

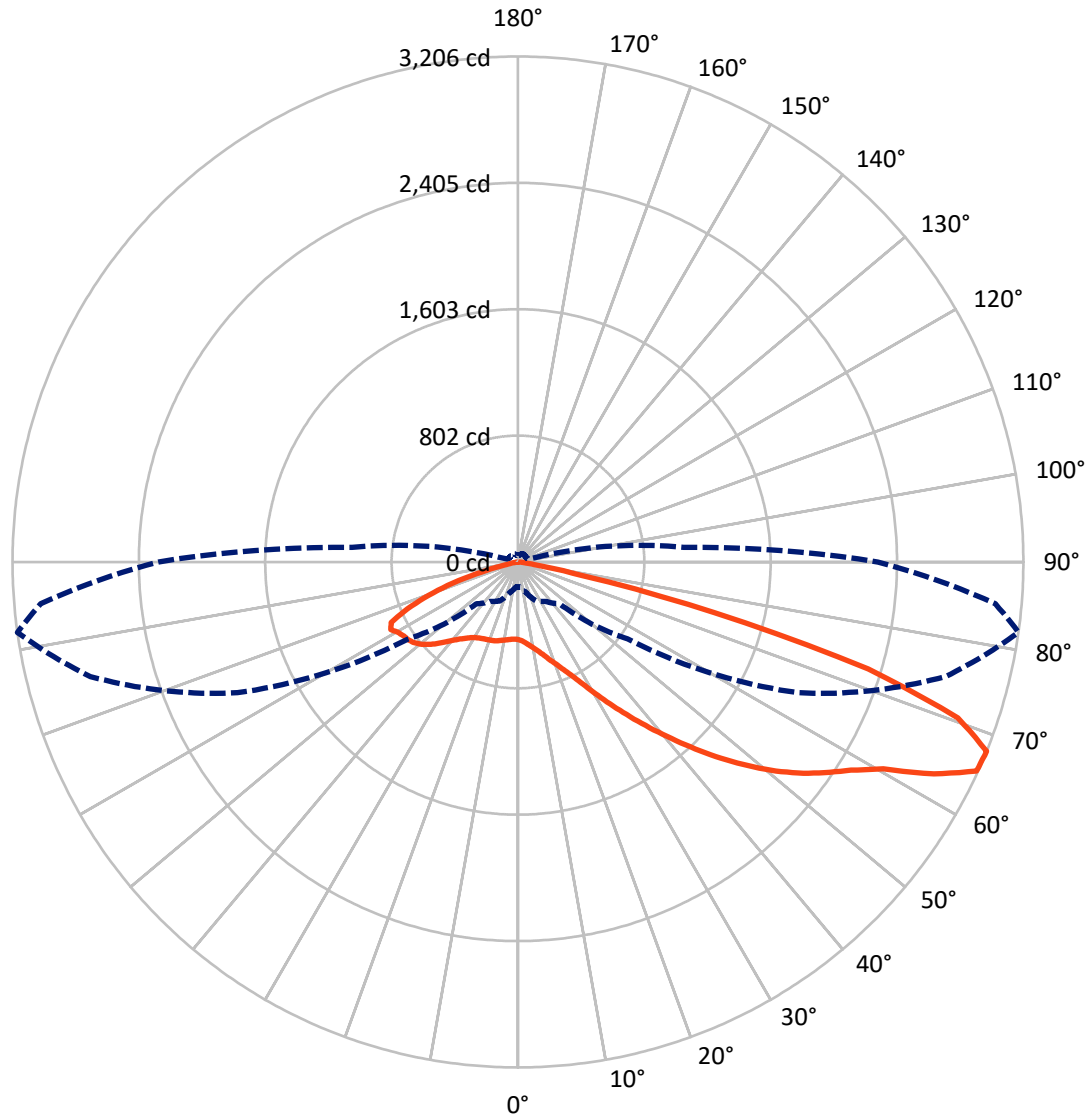
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P881536
CATALOG NUMBER: NVN-SB1A-727-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P881536

CATALOG NUMBER: NVN-SB1A-727-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	538.2	0.0	538.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	2432.8	0.0	2432.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	2971.0	0.0	2971.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.9	1.5
10°-20°	113.9	3.8
20°-30°	182.5	6.1
30°-40°	322.7	10.9
40°-50°	565.5	19.0
50°-60°	754.2	25.4
60°-70°	702.1	23.6
70°-80°	269.5	9.1
80°-90°	16.7	0.6
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°	2971.0	100.0
0°-180°	2971.0	100.0

Coefficient of Utilization



REPORT NUMBER: P881536

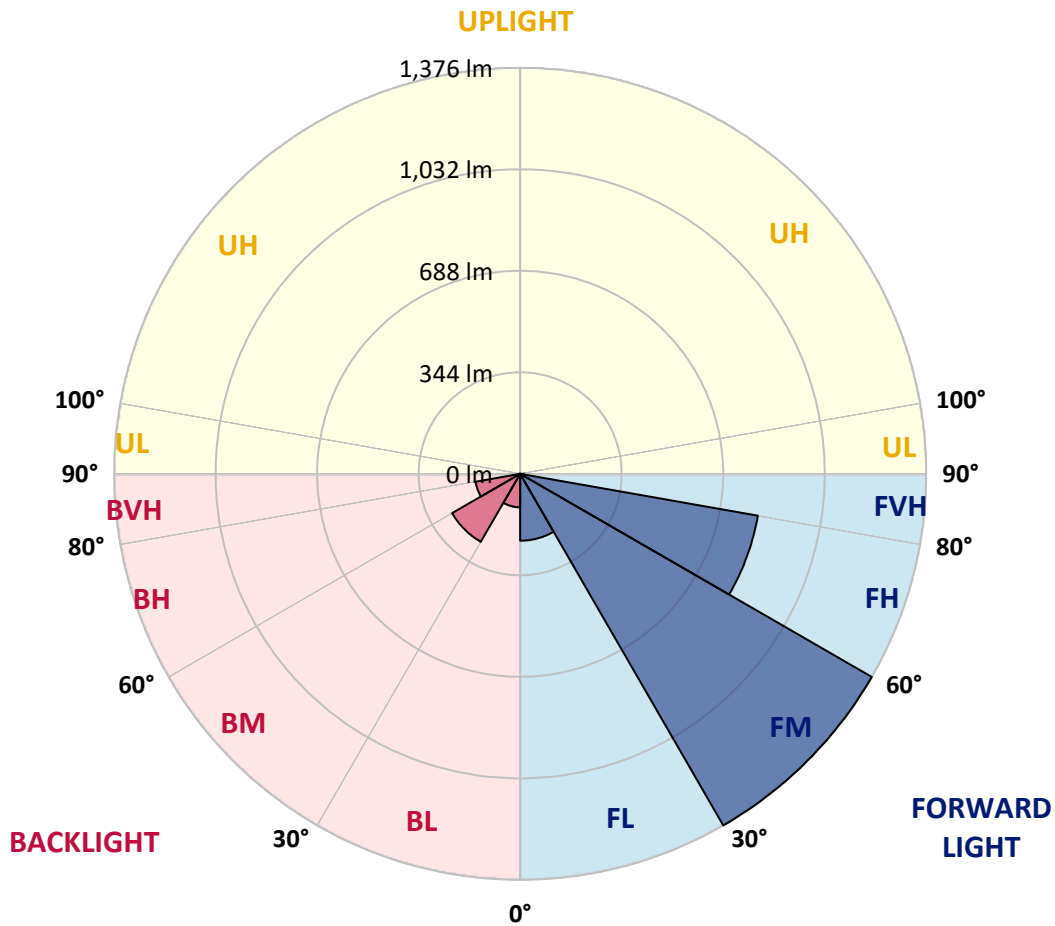
CATALOG NUMBER: NVN-SB1A-727-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	226.7	7.6			
FM (30°-60°)	1376.0	46.3			
FH (60°-80°)	818.0	27.5			G1/1800
FVH (80°-90°)	12.2	0.4			G1/100
BL (0°-30°)	113.7	3.8	B1/500		
BM (30°-60°)	266.3	9.0	B1/1000		
BH (60°-80°)	153.6	5.2	B1/500		G1/500
BVH (80°-90°)	4.6	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



REPORT NUMBER: P881536

CATALOG NUMBER: NVN-SB1A-727-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2
2.5°	520.2	523.2	521.5	520.6	519.1	517.0	515.3	509.9	504.4	500.8	499.5
5°	530.7	533.7	533.5	534.3	535.4	536.0	535.6	529.6	521.7	515.5	511.9
7.5°	521.7	525.1	527.9	532.2	539.7	547.6	551.4	550.2	542.0	533.5	529.0
10°	496.3	499.9	506.5	516.6	532.4	549.5	563.9	570.5	565.3	555.9	549.7
12.5°	449.6	453.3	466.3	488.1	514.7	544.4	571.8	589.5	590.8	581.4	574.1
15°	397.2	400.9	414.8	442.1	482.6	530.3	576.0	609.6	621.0	612.8	604.1
17.5°	364.7	367.9	378.4	400.4	442.6	502.0	574.5	631.0	656.9	650.5	640.0
20°	354.9	357.6	362.6	378.0	413.0	472.7	564.7	651.1	695.6	692.0	680.2
22.5°	365.3	367.9	369.4	376.3	398.3	453.5	552.3	671.7	740.5	741.0	726.6
25°	389.5	392.1	390.4	394.7	404.3	447.5	547.6	695.8	797.0	801.7	785.5
27.5°	429.3	429.5	425.5	425.2	426.7	456.5	552.5	721.7	868.2	877.0	856.9
30°	509.1	505.9	490.3	473.4	465.7	483.4	566.2	752.3	952.3	967.9	942.7
32.5°	632.1	627.4	598.7	558.3	517.6	526.8	590.8	787.2	1043.9	1072.1	1041.3
35°	765.6	764.3	734.3	674.2	603.2	588.7	630.8	832.9	1143.7	1188.7	1152.1
37.5°	889.6	889.0	871.9	801.1	714.7	674.9	695.0	892.8	1250.7	1315.7	1272.5
40°	1003.0	1004.9	987.8	924.5	837.4	785.5	782.2	966.8	1369.6	1454.1	1402.8
42.5°	1101.0	1103.1	1085.8	1038.9	958.7	907.8	889.4	1057.5	1485.8	1602.8	1542.0
45°	1167.5	1180.8	1178.2	1140.8	1083.2	1030.4	1018.2	1171.3	1618.2	1760.4	1689.2
47.5°	1186.3	1198.5	1217.8	1222.9	1187.8	1135.8	1150.4	1308.5	1752.1	1918.3	1837.2
50°	1139.9	1151.2	1191.2	1244.5	1268.9	1252.8	1278.9	1455.4	1889.2	2075.7	1982.5
52.5°	1048.3	1059.9	1110.4	1194.7	1294.1	1344.6	1407.9	1600.2	2022.0	2224.8	2120.0
55°	915.9	928.1	992.9	1088.3	1246.0	1382.5	1515.5	1744.8	2143.8	2358.9	2244.1
57.5°	735.8	744.8	812.2	945.7	1124.9	1344.8	1594.9	1902.7	2258.4	2490.7	2367.1
60°	479.6	487.5	565.8	714.7	924.3	1219.0	1610.7	2078.7	2410.7	2662.0	2532.8
62.5°	318.9	324.3	370.7	480.0	650.9	977.5	1518.1	2219.3	2634.0	2960.2	2817.1
65°	218.8	224.2	270.6	346.7	420.5	646.6	1251.8	2200.6	2836.4	3197.0	3027.8
67.5°	156.2	160.6	200.0	271.9	304.4	375.6	848.6	1962.8	2807.3	3206.0	3039.2
70°	111.9	114.4	147.0	211.8	241.9	225.7	471.9	1501.2	2458.0	2960.4	2807.7
72.5°	78.3	79.1	102.0	161.3	194.9	164.7	224.6	1000.9	1859.0	2323.6	2176.7
75°	53.0	54.1	68.7	118.3	156.4	125.8	118.9	536.7	1091.3	1286.2	1152.9
77.5°	32.5	32.9	44.3	80.9	117.0	95.8	76.6	227.4	422.2	414.5	353.4
80°	18.4	18.4	28.2	50.3	79.8	61.8	53.7	96.7	133.7	117.4	103.5
82.5°	10.3	10.5	20.5	31.2	52.8	36.6	29.5	44.7	57.8	51.1	44.5
85°	4.3	4.7	12.6	14.8	25.2	18.2	12.0	18.8	21.4	19.0	13.9
87.5°	0.4	0.6	3.9	2.8	3.0	3.6	1.7	3.6	3.0	3.0	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P881536

CATALOG NUMBER: NVN-SB1A-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2
2.5°	495.4	492.2	484.1	474.7	462.2	456.3	448.1	442.6	437.9	438.3	434.0
5°	505.0	496.9	478.7	456.0	427.8	407.7	386.3	371.6	359.6	357.0	351.2
7.5°	518.3	505.5	473.6	432.7	385.0	348.9	316.6	295.8	281.1	276.4	271.7
10°	535.4	516.8	467.0	403.4	334.8	288.8	254.1	237.9	227.8	224.4	221.8
12.5°	555.3	529.8	458.2	367.7	283.0	238.7	216.7	208.6	205.3	204.3	203.6
15°	580.3	546.1	444.9	325.3	239.1	208.1	198.7	197.6	198.1	197.6	197.4
17.5°	610.1	563.9	423.3	281.7	209.6	192.5	189.1	189.9	191.0	190.8	190.4
20°	642.6	581.4	395.7	243.0	189.5	181.4	179.5	180.3	181.2	180.7	180.5
22.5°	679.6	600.2	365.1	212.8	176.0	171.1	169.0	169.2	169.2	168.3	167.9
25°	723.9	621.0	333.0	191.4	165.8	161.9	159.4	158.5	157.2	154.7	154.2
27.5°	776.7	643.0	302.2	176.5	157.6	154.0	151.0	148.9	145.7	141.4	141.0
30°	836.2	669.7	276.2	167.1	151.2	147.6	144.2	141.0	136.3	130.9	130.5
32.5°	906.1	698.4	257.1	160.9	145.5	141.6	137.5	133.7	128.6	123.2	123.4
35°	989.5	733.1	246.0	156.6	141.0	135.8	131.3	127.1	123.2	118.5	118.1
37.5°	1080.0	769.8	242.6	154.4	138.0	130.1	124.9	121.9	121.5	118.7	118.5
40°	1179.0	813.5	245.1	153.2	134.8	124.5	118.9	118.3	119.4	114.4	114.7
42.5°	1283.9	865.2	249.4	151.7	130.3	118.9	113.6	113.6	112.7	105.9	105.9
45°	1397.2	924.9	253.7	148.0	124.9	113.4	109.3	107.8	104.2	97.5	97.3
47.5°	1511.4	985.7	256.9	141.4	118.5	108.7	105.0	101.6	96.3	90.3	90.1
50°	1619.9	1040.2	253.5	131.6	111.2	104.2	100.3	95.6	89.8	85.8	85.1
52.5°	1716.8	1087.5	238.9	120.0	103.5	99.5	96.0	91.1	86.4	82.1	81.7
55°	1801.1	1125.8	213.3	109.1	96.7	95.4	92.0	85.8	79.4	75.7	75.3
57.5°	1881.9	1154.9	181.2	100.1	90.5	90.9	85.8	80.2	74.2	70.4	69.9
60°	1989.5	1193.8	148.7	91.8	83.9	85.1	79.6	75.5	68.0	63.1	62.5
62.5°	2161.5	1254.3	118.1	81.5	76.1	76.6	74.2	69.3	60.3	54.5	54.1
65°	2298.0	1232.1	93.0	70.4	67.4	68.0	68.0	62.7	53.0	46.4	45.8
67.5°	2282.6	1055.0	74.2	59.5	59.0	59.5	61.0	56.5	47.1	41.7	40.9
70°	2102.7	839.1	59.5	49.4	51.3	50.3	54.5	51.6	42.4	37.0	36.4
72.5°	1715.7	604.5	45.3	40.9	39.4	41.1	49.2	46.4	35.3	29.3	28.7
75°	1002.6	322.6	33.8	32.3	28.4	34.2	43.6	39.6	27.0	21.6	21.0
77.5°	326.4	112.5	24.8	23.7	21.2	27.6	37.2	33.4	22.0	17.1	16.5
80°	87.5	34.0	16.9	15.6	13.7	20.5	29.5	26.5	15.8	11.1	10.9
82.5°	35.1	14.3	9.8	8.8	7.5	14.1	23.3	21.4	11.8	7.1	7.1
85°	11.3	4.7	3.6	2.8	3.4	8.8	13.9	14.5	8.3	3.6	2.8
87.5°	1.5	0.6	0.6	0.9	0.6	1.5	4.3	4.1	2.4	0.4	0.0
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)