

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: P960468

Luminaire Tested: **NVN-SB1C-827-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1C-827-U-SL4-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4660.7 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

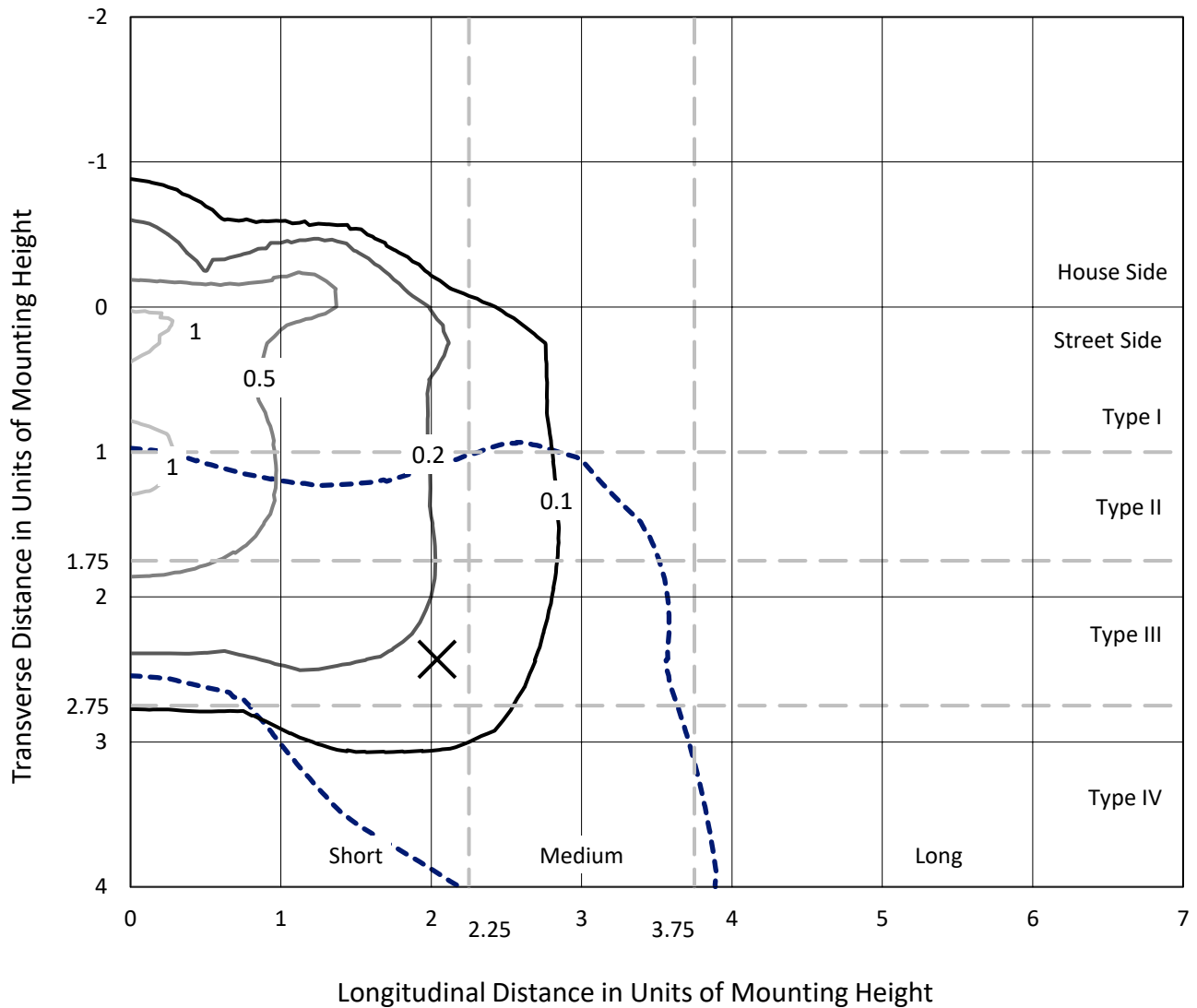
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

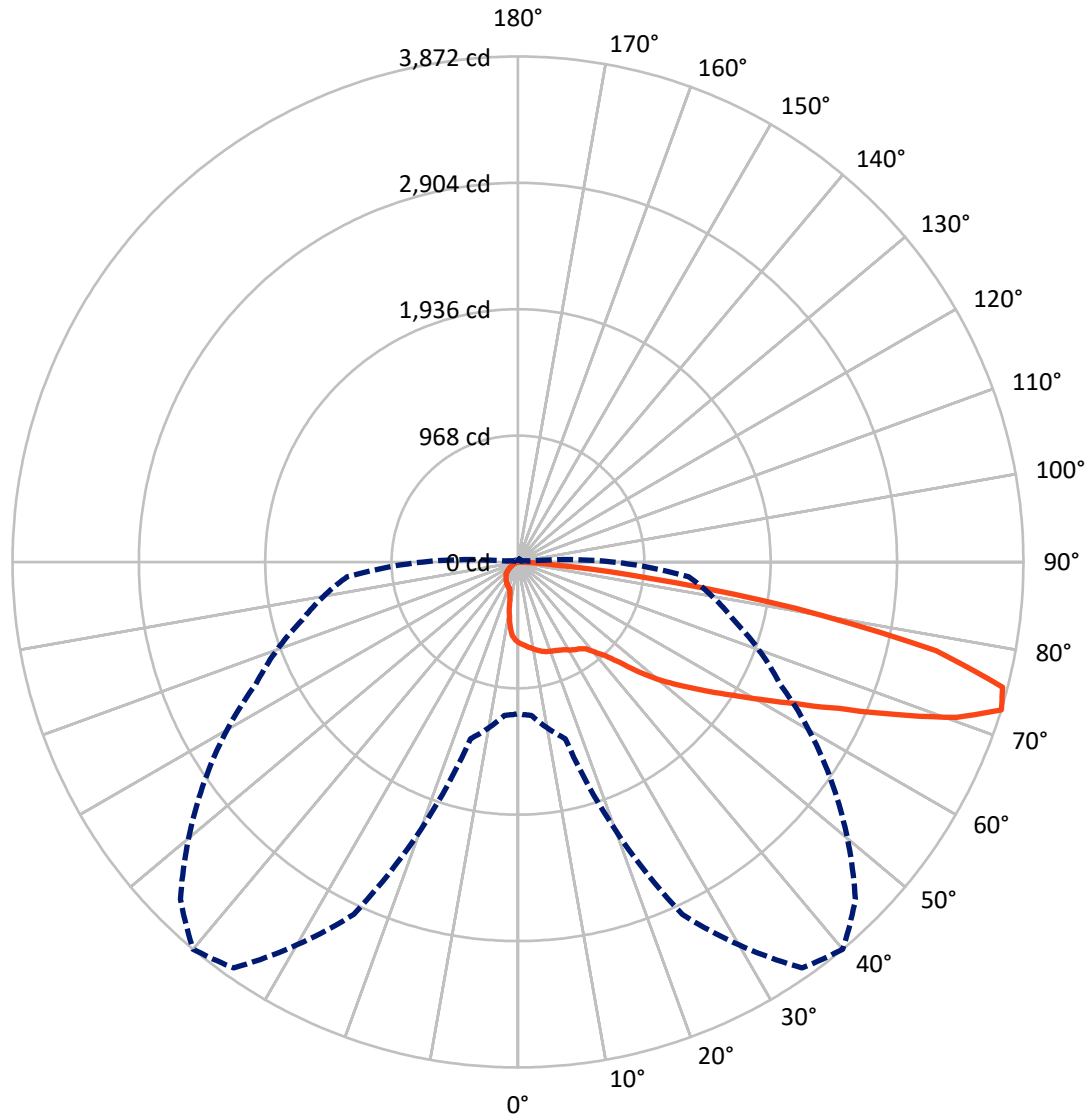
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	601.9	0.0	601.9
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	4058.8	0.0	4058.8
	% Fixture	87.1	0.0	87.1
Total	Lumens	4660.7	0.0	4660.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.4	1.2
10°-20°	153.1	3.3
20°-30°	247.7	5.3
30°-40°	365.6	7.8
40°-50°	615.4	13.2
50°-60°	955.5	20.5
60°-70°	1195.6	25.7
70°-80°	978.8	21.0
80°-90°	92.8	2.0
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°	4660.7	100.0
0°-180°	4660.7	100.0

Coefficient of Utilization



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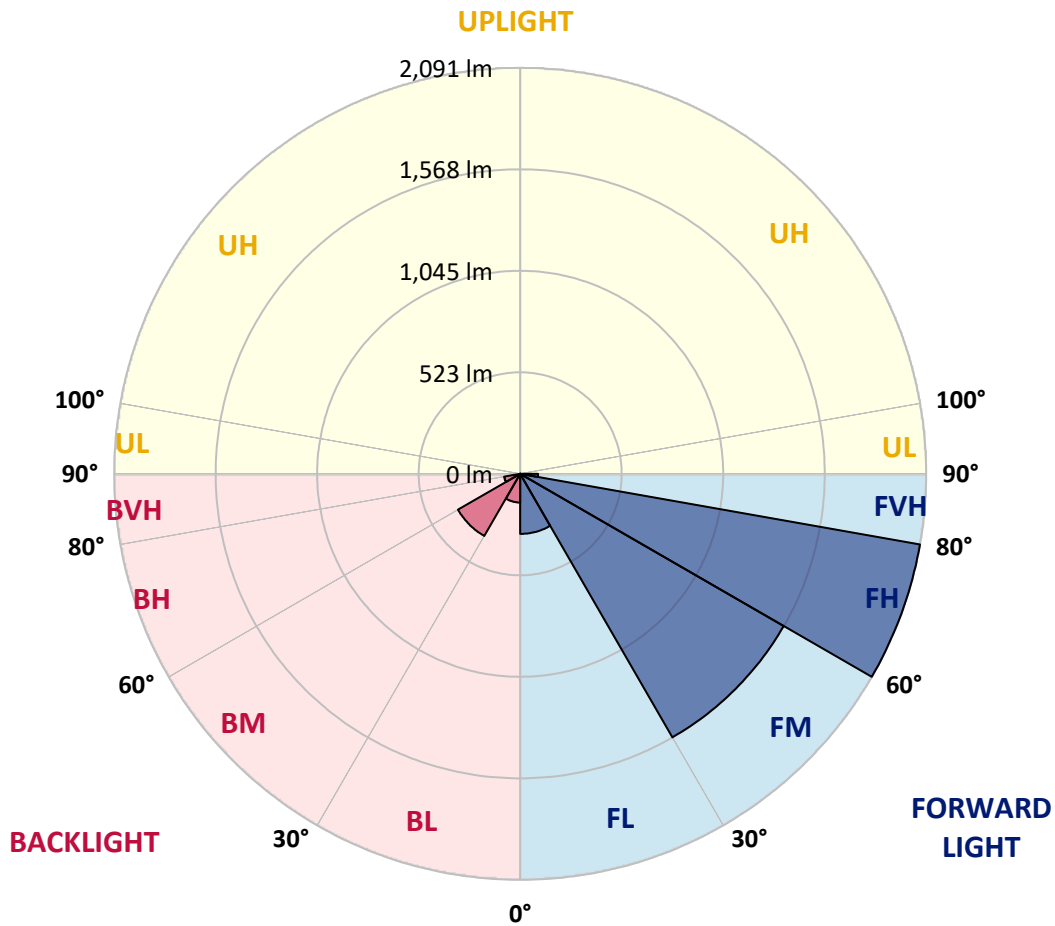
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	309.3	6.6			
FM (30°-60°)	1566.8	33.6			
FH (60°-80°)	2090.5	44.9			G2/5000
FVH (80°-90°)	92.1	2.0			G1/100
BL (0°-30°)	147.7	3.2	B1/500		
BM (30°-60°)	369.6	7.9	B1/1000		
BH (60°-80°)	83.8	1.8	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	617.2	617.2	617.2	617.2	617.2	617.2	617.2	617.2	617.2	617.2	617.2
2.5°	635.7	638.2	636.7	634.0	633.2	631.8	630.1	629.3	626.9	624.8	622.4
5°	653.6	656.1	654.4	650.5	648.7	647.0	644.5	642.4	637.4	632.9	627.3
7.5°	673.3	675.4	673.3	667.7	664.8	662.8	659.3	656.1	650.5	643.8	636.7
10°	695.1	696.8	693.6	686.2	681.7	678.6	675.4	671.9	666.6	659.3	650.8
12.5°	715.4	717.5	712.6	703.8	698.5	695.4	691.9	689.1	683.8	676.8	668.0
15°	734.0	737.2	728.8	719.2	713.3	710.8	707.4	705.6	702.0	697.1	689.1
17.5°	748.0	750.2	741.4	730.1	723.4	721.7	719.2	720.3	719.7	717.2	711.9
20°	759.9	761.4	749.8	736.2	728.8	729.1	728.4	731.8	733.3	733.3	733.0
22.5°	774.7	775.1	760.3	743.1	734.3	736.8	737.9	741.7	744.6	747.3	753.7
25°	794.1	793.3	775.8	752.2	744.6	748.0	750.5	751.9	755.0	759.6	774.0
27.5°	822.8	820.7	798.3	767.0	757.9	761.1	765.6	764.9	763.5	767.0	791.2
30°	859.4	856.5	826.7	787.7	779.3	782.1	783.5	777.2	767.0	770.2	806.4
32.5°	917.3	912.4	870.9	810.9	797.9	801.0	799.3	786.3	771.2	774.4	821.4
35°	1018.0	1006.0	947.4	859.4	819.0	815.5	811.2	798.6	780.0	776.8	834.0
37.5°	1232.2	1211.0	1111.0	953.8	866.7	843.9	830.9	818.3	789.5	776.8	848.4
40°	1473.6	1452.2	1336.7	1111.7	946.1	907.4	876.5	841.4	799.3	781.4	870.9
42.5°	1725.7	1702.1	1583.5	1307.6	1059.4	980.1	922.5	860.0	815.5	795.4	900.8
45°	2007.2	1977.7	1822.6	1511.9	1224.1	1100.8	996.6	898.3	843.6	820.3	941.5
47.5°	2304.2	2265.9	2060.9	1710.2	1401.3	1267.9	1132.1	966.8	885.0	857.6	996.6
50°	2567.4	2529.5	2307.0	1917.7	1567.0	1426.9	1286.5	1061.5	947.1	910.2	1070.6
52.5°	2756.6	2727.8	2530.9	2131.8	1739.3	1576.1	1426.6	1171.8	1025.7	977.6	1158.0
55°	2883.3	2857.1	2689.6	2334.7	1939.8	1740.4	1564.6	1291.4	1120.5	1058.3	1254.6
57.5°	2960.2	2945.1	2804.4	2515.9	2138.5	1920.1	1722.5	1423.1	1232.2	1153.5	1362.3
60°	2987.6	2975.4	2875.6	2688.6	2378.6	2136.0	1908.2	1571.5	1367.7	1261.6	1472.9
62.5°	2914.6	2917.0	2926.9	2893.2	2631.7	2388.8	2130.8	1749.9	1517.8	1384.2	1576.9
65°	2570.9	2591.3	2778.1	3120.0	2966.9	2705.4	2414.1	1967.5	1689.8	1523.5	1659.3
67.5°	2128.6	2158.1	2390.5	3252.6	3324.3	3116.4	2808.6	2244.9	1894.8	1665.3	1690.5
70°	1629.4	1661.1	1942.6	3225.0	3658.7	3565.8	3296.5	2597.7	2107.2	1763.6	1610.9
72.5°	1163.0	1179.2	1401.0	2978.1	3796.1	3871.8	3656.0	2931.8	2215.7	1709.2	1313.9
75°	817.2	814.4	961.4	2398.2	3582.3	3834.6	3530.0	2751.0	2005.1	1357.8	810.2
77.5°	356.0	356.6	480.2	1456.4	2859.1	3275.1	2934.3	1723.2	1397.8	719.7	341.9
80°	92.4	95.1	176.2	579.9	1721.5	2161.6	1789.5	757.5	645.9	175.5	65.3
82.5°	32.6	34.7	81.1	182.1	635.0	991.3	796.8	242.2	168.5	50.2	17.5
85°	9.4	11.3	43.6	55.9	131.3	280.1	193.4	47.0	41.4	25.9	4.6
87.5°	0.0	1.4	8.8	7.7	7.7	5.2	9.8	5.2	6.7	3.2	1.4
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°	617.2	617.2	617.2	617.2	617.2	617.2	617.2	617.2	617.2	617.2	617.2
2.5°	620.2	617.8	612.5	606.9	601.7	596.8	595.3	590.1	587.6	587.9	587.6
5°	623.4	618.9	608.6	596.4	583.7	569.4	557.4	540.6	526.2	524.4	523.4
7.5°	631.8	624.5	608.0	584.1	552.5	512.8	476.0	439.5	418.8	407.5	406.8
10°	644.8	635.0	609.8	564.1	497.0	426.2	370.3	324.3	300.8	290.0	287.8
12.5°	660.3	649.4	612.5	530.0	425.5	332.4	272.0	244.0	239.0	238.3	238.0
15°	682.0	670.1	615.7	484.1	347.9	253.1	225.4	225.7	229.6	231.6	231.3
17.5°	706.2	694.3	611.1	427.9	271.3	216.3	215.6	218.7	224.3	226.4	226.0
20°	730.8	719.7	595.0	361.9	219.4	206.0	208.9	212.4	218.0	220.8	220.8
22.5°	756.1	746.3	569.4	291.7	198.0	198.6	202.2	205.7	212.1	215.1	215.1
25°	783.1	774.7	535.4	233.8	188.8	191.0	195.6	199.8	206.4	210.2	210.2
27.5°	810.6	804.2	496.7	195.2	180.4	182.9	188.2	193.7	200.4	205.0	205.3
30°	840.4	836.8	465.9	180.8	172.4	174.5	180.4	186.8	194.1	199.8	200.4
32.5°	870.9	870.2	450.7	191.3	165.0	166.4	171.7	177.9	187.1	194.1	194.9
35°	901.1	902.5	442.0	221.2	162.6	158.7	162.2	167.8	178.7	187.5	188.8
37.5°	939.7	943.2	441.6	253.5	168.5	151.0	153.4	157.2	166.8	176.9	178.7
40°	997.3	1015.9	464.0	281.2	179.1	143.9	144.6	145.3	150.3	158.7	161.4
42.5°	1073.8	1128.2	545.2	300.1	183.3	137.6	135.2	131.3	130.6	135.2	137.6
45°	1168.9	1264.0	687.7	310.7	179.1	130.6	123.9	113.8	109.9	113.1	113.1
47.5°	1280.9	1412.9	856.5	313.1	172.0	121.8	109.9	96.6	93.4	94.4	94.1
50°	1390.1	1524.5	1005.0	292.7	160.4	110.6	94.4	83.2	81.1	81.5	81.5
52.5°	1486.7	1562.8	1047.1	244.7	144.9	96.9	81.1	73.4	72.0	72.0	71.6
55°	1550.5	1521.4	933.8	187.1	125.7	82.8	69.5	65.6	65.0	64.6	63.9
57.5°	1563.8	1386.6	705.2	135.2	98.3	69.9	61.8	59.7	58.2	56.9	56.2
60°	1516.1	1161.9	449.0	94.4	73.7	59.7	54.7	53.4	50.5	47.8	46.6
62.5°	1412.9	877.6	248.6	65.6	59.3	50.9	48.5	46.6	41.4	36.9	35.5
65°	1274.3	583.4	109.9	51.2	48.5	42.8	41.4	38.9	32.6	27.4	26.3
67.5°	1134.9	335.9	49.5	41.1	38.9	35.1	34.0	32.3	27.8	22.9	22.1
70°	975.9	170.3	34.0	32.6	30.2	26.6	27.8	27.4	22.9	18.7	17.9
72.5°	726.6	84.6	25.6	24.6	21.7	19.0	22.9	22.4	17.9	14.0	13.3
75°	411.4	41.8	18.7	17.2	13.0	14.0	18.2	17.2	12.3	9.1	8.4
77.5°	163.2	21.4	12.3	10.6	7.7	9.4	13.3	11.6	6.4	3.9	3.5
80°	37.5	10.6	6.4	4.6	3.5	5.6	7.0	4.2	1.7	0.3	0.0
82.5°	10.6	4.6	2.2	1.7	1.7	2.2	1.7	0.7	0.0	0.0	0.0
85°	3.5	2.2	0.7	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)