

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: P198500

Luminaire Tested: **XNV-AF-01-LED-U-5WQ-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198500  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24131)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: XNV-AF-01-LED-U-5WQ-7030-800  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4500 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G1

Input Watts (W): 44  
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: 28.75 FT

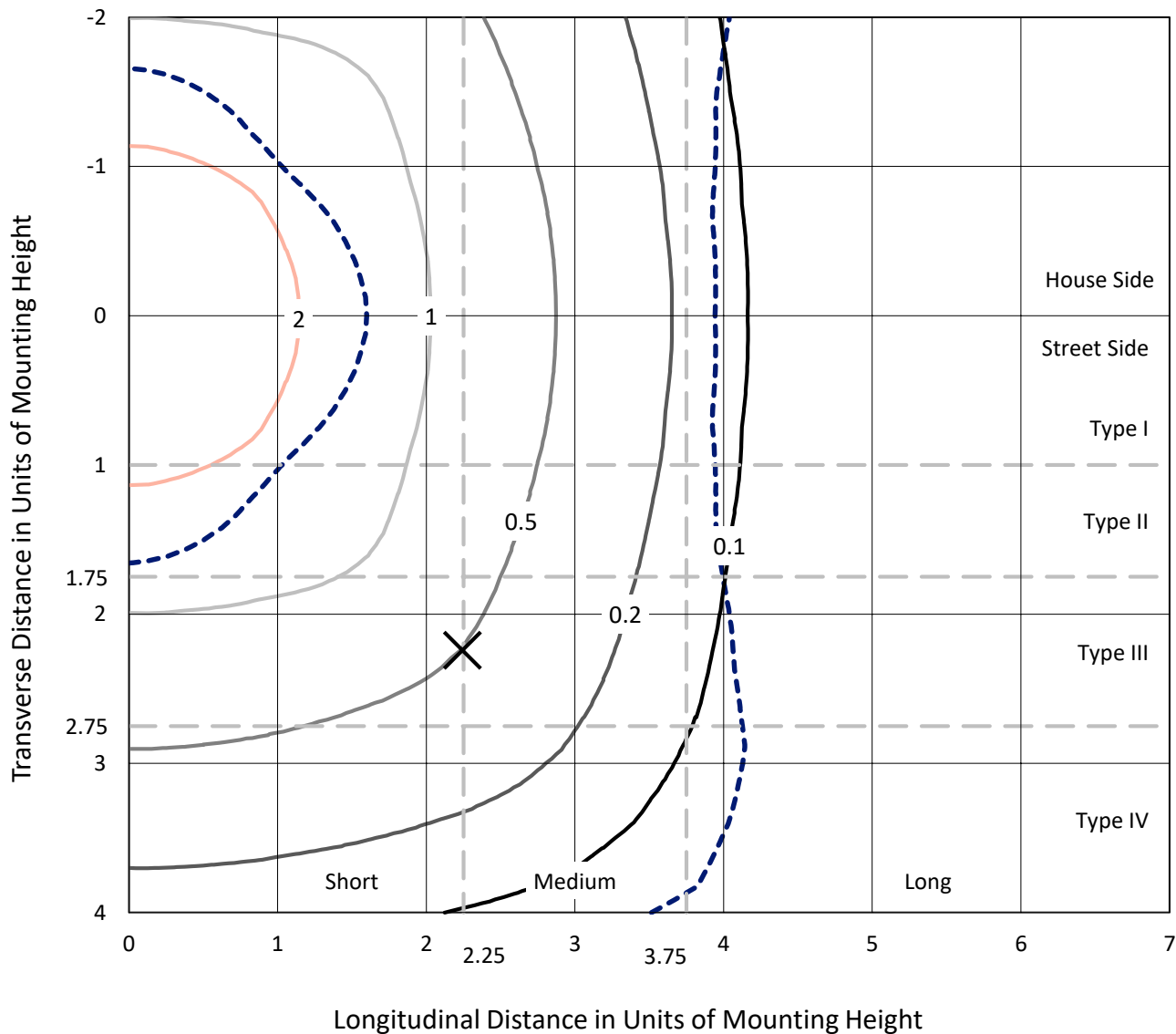


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### Iso-Footcandle Lines of Horizontal Illumination

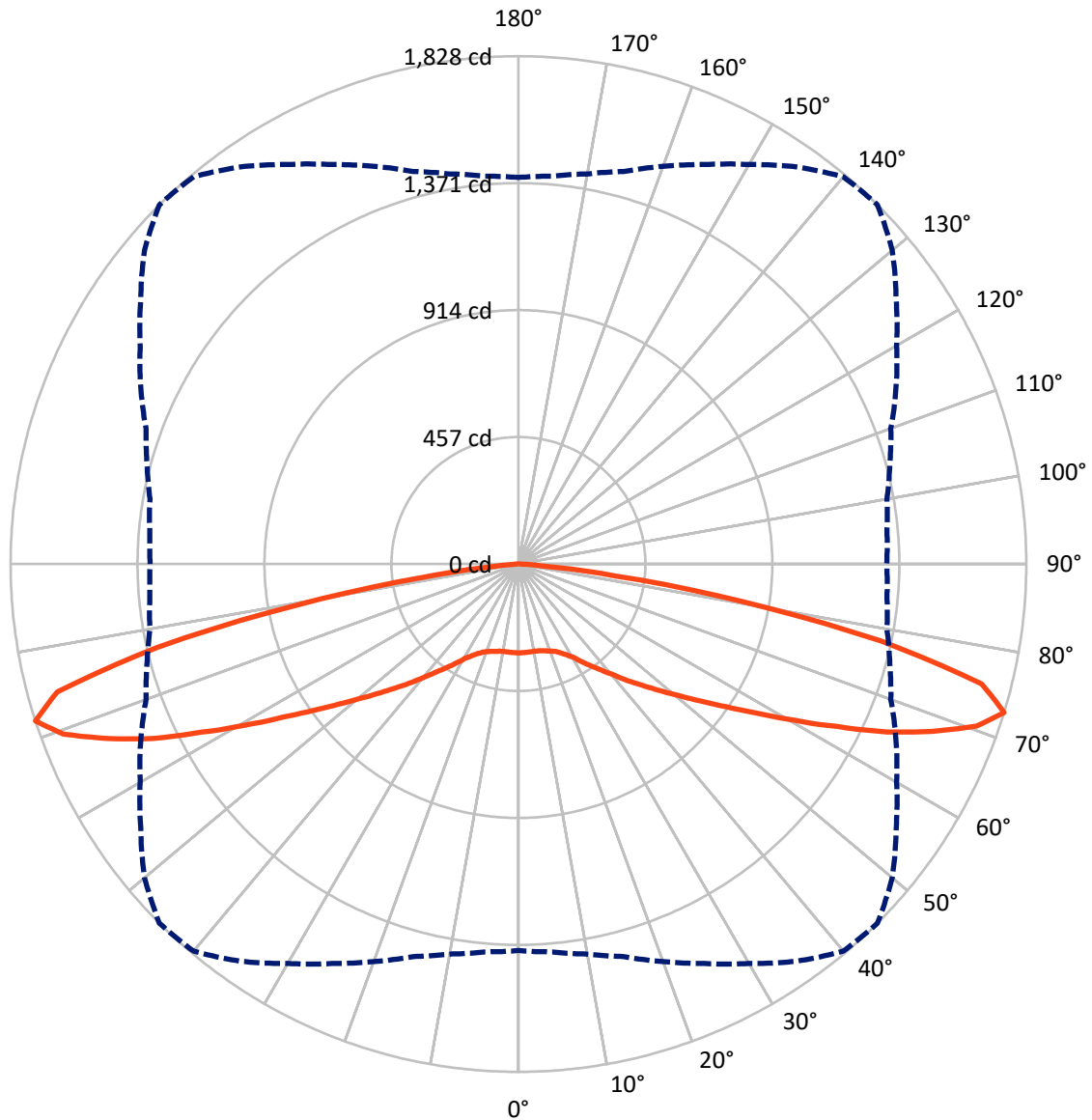
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.2 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2250.0	0.0	2250.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2250.0	0.0	2250.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4500.0	0.0	4500.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.5	0.7
10°-20°	92.4	2.1
20°-30°	166.8	3.7
30°-40°	284.6	6.3
40°-50°	484.5	10.8
50°-60°	779.7	17.3
60°-70°	1296.7	28.8
70°-80°	1254.4	27.9
80°-90°	110.4	2.5
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°	4500.0	100.0
0°-180°	4500.0	100.0



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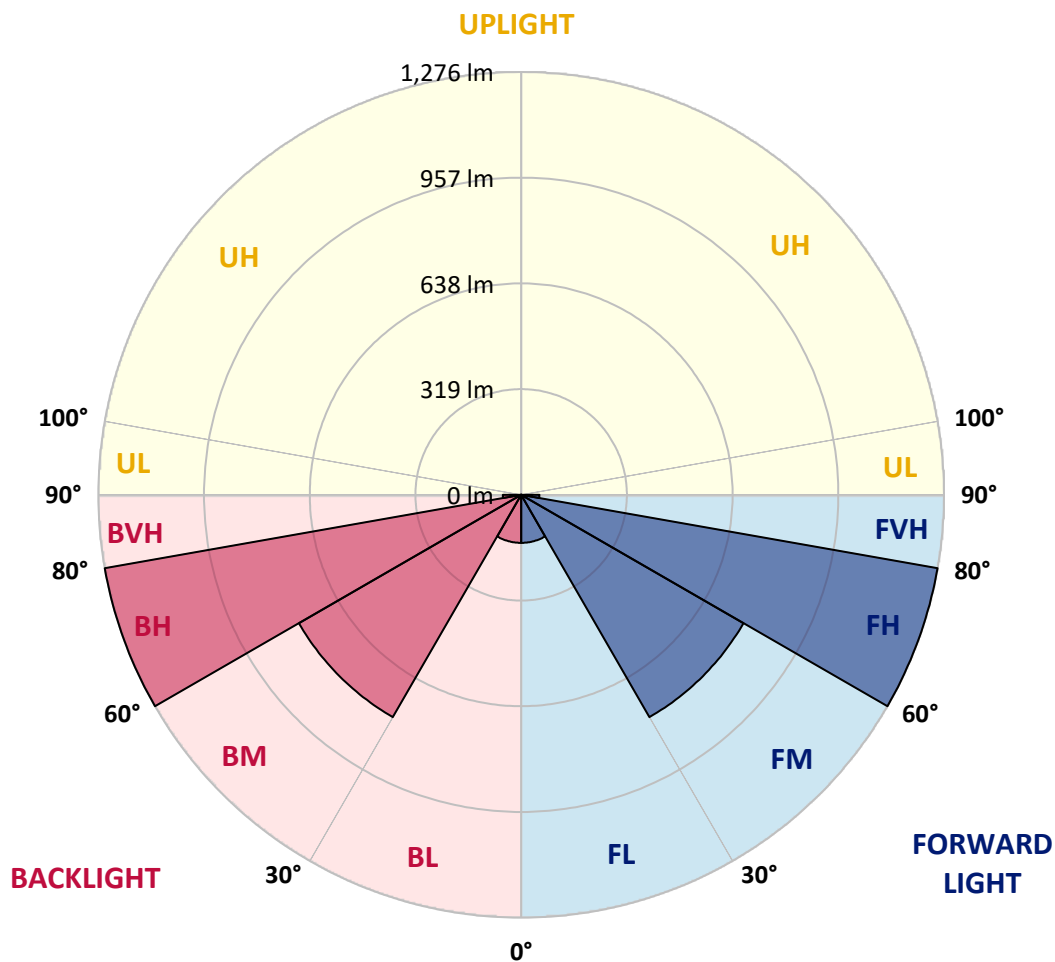
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	144.9	3.2			
FM	(30°-60°)	774.4	17.2			
FH	(60°-80°)	1275.5	28.3			G1/1800
FVH	(80°-90°)	55.2	1.2			G1/100
BL	(0°-30°)	144.9	3.2	B1/500		
BM	(30°-60°)	774.4	17.2	B1/1000		
BH	(60°-80°)	1275.5	28.3	B3/2500		G1/1800
BVH	(80°-90°)	55.2	1.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	319.9	319.9	319.9	319.9	319.9	319.9	319.9	319.9	319.9	319.9	319.9
2.5°	322.4	322.4	322.7	322.4	321.9	321.6	320.7	320.2	319.6	319.4	318.8
5°	322.7	322.7	323.0	322.7	322.1	321.6	321.0	320.2	319.6	319.1	318.8
7.5°	323.8	324.1	324.3	324.1	323.0	322.4	321.6	320.7	319.6	319.1	318.5
10°	326.0	326.0	326.0	325.7	324.9	323.8	322.7	321.9	320.5	319.1	318.3
12.5°	327.7	327.9	327.9	327.4	326.3	324.9	323.8	323.0	321.9	320.7	319.9
15°	330.2	330.2	329.9	328.8	327.1	326.0	325.5	325.2	324.9	324.3	323.5
17.5°	335.2	334.9	334.0	332.4	330.4	329.6	329.1	329.1	329.1	328.8	328.2
20°	342.4	342.4	341.2	338.5	336.8	336.0	335.2	335.2	335.2	334.3	333.5
22.5°	354.0	354.3	352.6	349.3	347.1	345.4	344.3	343.5	342.6	342.1	340.7
25°	369.8	369.5	367.6	363.4	361.7	360.1	357.9	356.5	355.4	354.5	352.9
27.5°	386.4	386.1	383.9	380.3	379.2	376.7	375.0	373.1	371.7	370.3	368.7
30°	407.7	406.3	404.7	401.9	401.3	399.4	397.2	394.4	392.2	390.0	388.1
32.5°	426.8	426.8	424.3	423.0	424.1	423.2	423.5	421.8	420.5	419.6	417.7
35°	453.4	453.4	452.3	450.7	450.9	449.0	448.7	449.0	450.1	450.1	447.9
37.5°	488.9	489.4	485.8	485.3	483.9	481.1	479.7	480.3	482.8	484.2	481.1
40°	532.9	534.0	532.9	529.3	527.7	522.9	520.2	520.2	522.1	523.5	522.4
42.5°	576.4	578.3	576.4	573.6	572.2	568.6	567.3	568.4	570.9	572.5	570.9
45°	624.9	626.3	623.8	620.4	618.8	616.8	616.0	616.8	619.6	621.3	620.7
47.5°	672.5	674.5	671.4	670.0	670.0	668.1	670.3	672.5	675.0	678.9	677.2
50°	719.0	721.5	719.6	719.9	722.1	725.7	729.9	734.3	738.7	742.9	743.4
52.5°	760.6	764.5	764.8	769.7	776.7	782.2	793.8	803.5	814.1	817.7	816.0
55°	804.4	809.6	816.5	824.3	835.4	846.7	866.4	883.9	897.7	906.3	904.9
57.5°	867.0	872.2	879.4	892.2	908.8	924.3	951.2	978.3	999.4	1012.4	1006.0
60°	948.1	953.7	963.1	976.6	998.2	1019.3	1056.1	1095.2	1127.9	1142.8	1131.2
62.5°	1055.6	1060.8	1066.9	1084.9	1109.0	1136.2	1182.4	1232.6	1274.1	1288.5	1272.2
65°	1208.8	1215.1	1217.1	1231.7	1255.3	1280.5	1330.4	1386.9	1434.2	1457.8	1425.1
67.5°	1381.3	1383.8	1391.6	1408.7	1432.8	1455.5	1494.9	1548.3	1593.8	1606.8	1571.9
70°	1482.4	1487.4	1501.0	1524.8	1553.6	1589.3	1632.3	1689.9	1741.4	1747.5	1703.2
72.5°	1391.0	1401.3	1425.4	1462.5	1522.9	1586.3	1660.2	1745.3	1819.2	1827.8	1756.6
75°	1115.7	1127.3	1156.1	1196.8	1268.3	1362.5	1469.4	1597.1	1707.9	1722.0	1627.8
77.5°	594.7	609.1	650.9	705.8	807.7	932.3	1061.1	1206.8	1301.0	1332.8	1265.0
80°	149.8	157.6	177.8	210.0	278.9	379.5	490.5	647.3	764.2	813.8	764.2
82.5°	58.2	64.0	69.5	73.4	80.0	93.9	129.6	211.3	284.7	350.7	303.6
85°	22.4	23.8	34.3	39.1	39.1	42.9	49.3	58.2	72.0	78.7	65.9
87.5°	8.9	9.7	11.9	18.3	18.8	16.6	17.7	19.9	15.2	12.7	14.4
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	319.9	319.9	319.9	319.9	319.9	319.9	319.9	319.9
2.5°	318.5	318.3	317.7	318.0	317.7	317.7	317.7	317.7
5°	318.3	318.3	317.7	317.7	317.7	318.0	317.7	317.7
7.5°	318.0	317.7	317.1	316.9	316.9	316.6	316.6	316.6
10°	317.4	316.9	316.3	316.0	316.0	315.5	315.5	315.5
12.5°	318.8	318.0	317.4	317.1	317.1	317.1	317.4	317.4
15°	322.7	321.0	320.2	319.9	320.2	320.7	321.0	321.3
17.5°	326.8	325.2	323.8	323.2	323.5	324.3	325.2	325.7
20°	332.1	330.7	329.1	328.5	328.5	329.6	330.2	331.0
22.5°	339.6	338.5	337.1	336.3	335.7	337.1	337.9	338.5
25°	351.5	350.4	349.3	348.4	348.2	349.6	350.1	350.4
27.5°	367.3	366.2	365.6	365.3	364.5	365.1	365.9	365.6
30°	387.8	388.6	387.8	387.8	386.4	386.9	386.4	385.8
32.5°	415.2	414.4	411.9	410.2	408.3	408.3	407.4	406.6
35°	442.6	439.9	438.5	439.3	438.5	439.0	437.6	436.2
37.5°	475.0	473.4	473.1	475.6	475.0	475.6	475.6	473.6
40°	518.0	516.9	518.8	522.9	524.6	524.3	524.9	522.4
42.5°	567.3	565.3	566.2	569.8	571.7	572.2	572.0	569.8
45°	616.6	617.1	617.1	621.0	622.9	624.0	622.1	621.3
47.5°	672.2	673.1	671.1	673.6	674.2	676.1	674.5	673.1
50°	736.5	733.5	729.0	729.9	729.9	729.3	727.4	725.7
52.5°	808.2	801.3	793.0	790.2	787.2	784.1	780.3	777.2
55°	889.9	878.0	863.1	856.2	850.3	843.4	834.6	831.5
57.5°	984.7	964.2	944.2	931.8	916.8	907.7	896.3	895.8
60°	1097.1	1069.4	1034.3	1015.7	1000.7	989.9	981.4	978.0
62.5°	1227.0	1179.4	1141.4	1121.5	1104.1	1097.4	1086.6	1088.0
65°	1360.3	1311.8	1275.0	1258.9	1242.5	1238.1	1228.1	1231.7
67.5°	1504.6	1464.7	1424.3	1409.3	1394.3	1389.9	1379.7	1382.7
70°	1633.9	1583.2	1537.3	1507.9	1482.4	1461.9	1448.9	1443.6
72.5°	1659.7	1571.9	1499.6	1426.2	1383.8	1346.7	1331.5	1325.6
75°	1491.3	1355.0	1252.0	1165.8	1118.2	1064.2	1058.4	1050.3
77.5°	1160.0	1004.9	880.3	769.5	705.5	639.6	616.8	599.7
80°	691.9	531.8	412.2	288.9	235.7	189.7	178.4	166.5
82.5°	247.6	158.7	106.9	83.4	74.5	68.7	64.3	58.4
85°	59.8	50.4	47.6	43.2	42.7	36.3	25.8	23.0
87.5°	19.1	17.4	17.7	16.9	17.7	13.3	10.8	9.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)