

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: P271222

Luminaire Tested: **XNV-AF-01-LED-U-RW-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271222  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24161)  
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-RW-7027-600  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3538.2 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Medium - Full Cutoff  
BUG Rating: B2 - U0 - G1

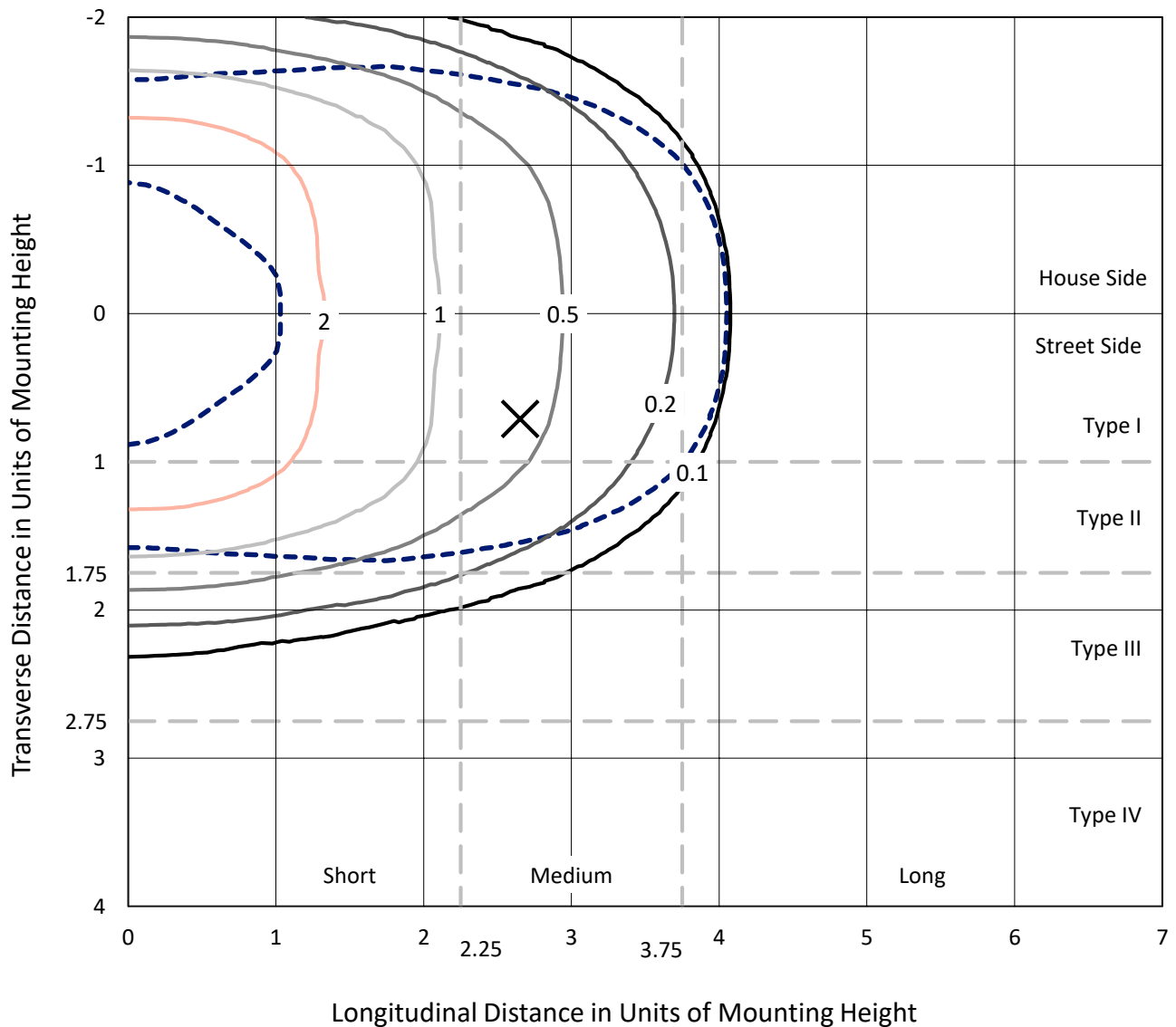
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

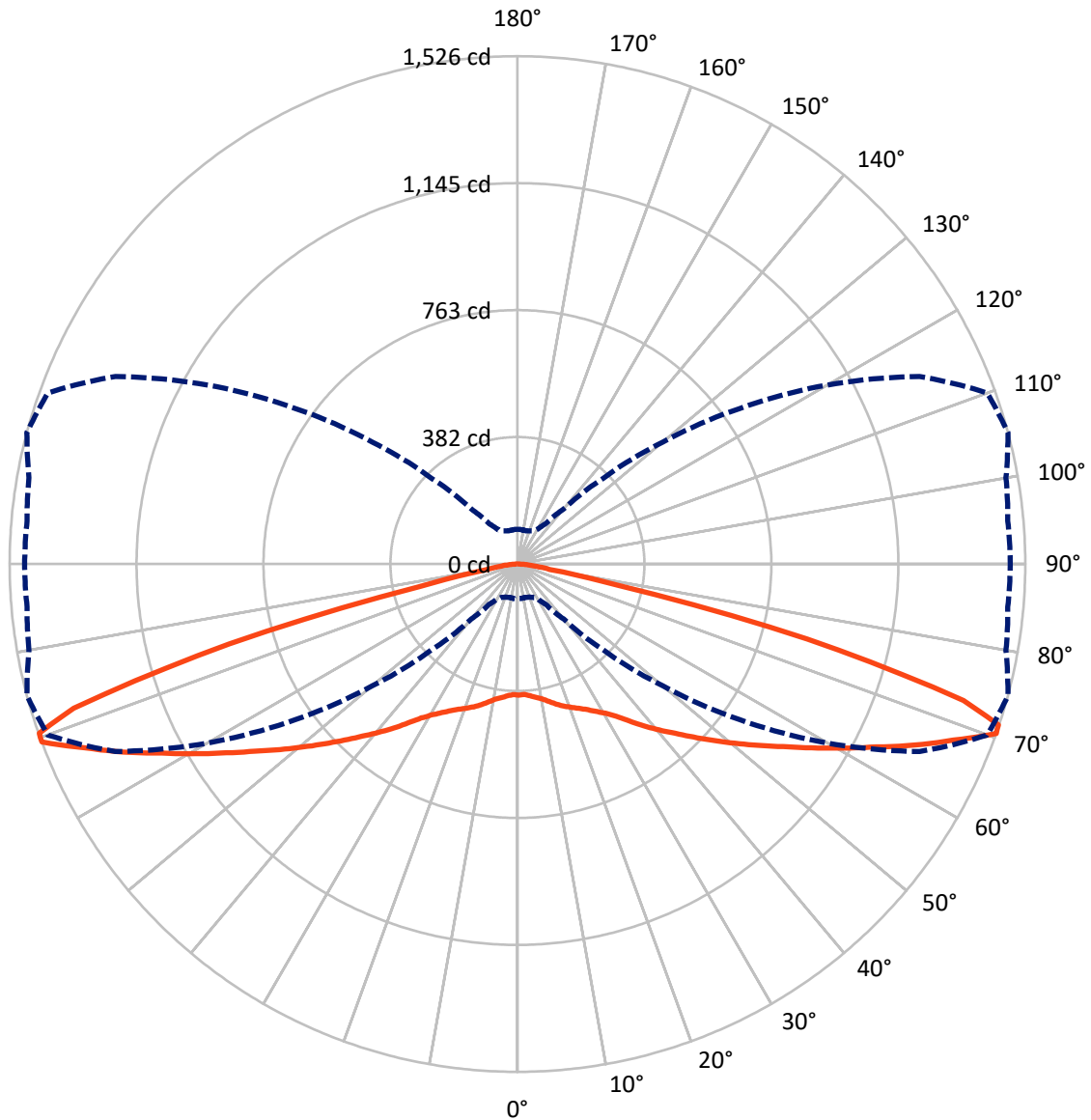
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4 fc  
 Type V - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1769.1	0.0	1769.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1769.1	0.0	1769.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3538.2	0.0	3538.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.8	1.1
10°-20°	117.2	3.3
20°-30°	220.1	6.2
30°-40°	387.8	11.0
40°-50°	642.7	18.2
50°-60°	894.1	25.3
60°-70°	844.0	23.9
70°-80°	360.5	10.2
80°-90°	34.1	1.0
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°	3538.2	100.0
0°-180°	3538.2	100.0

**Coefficient of Utilization**



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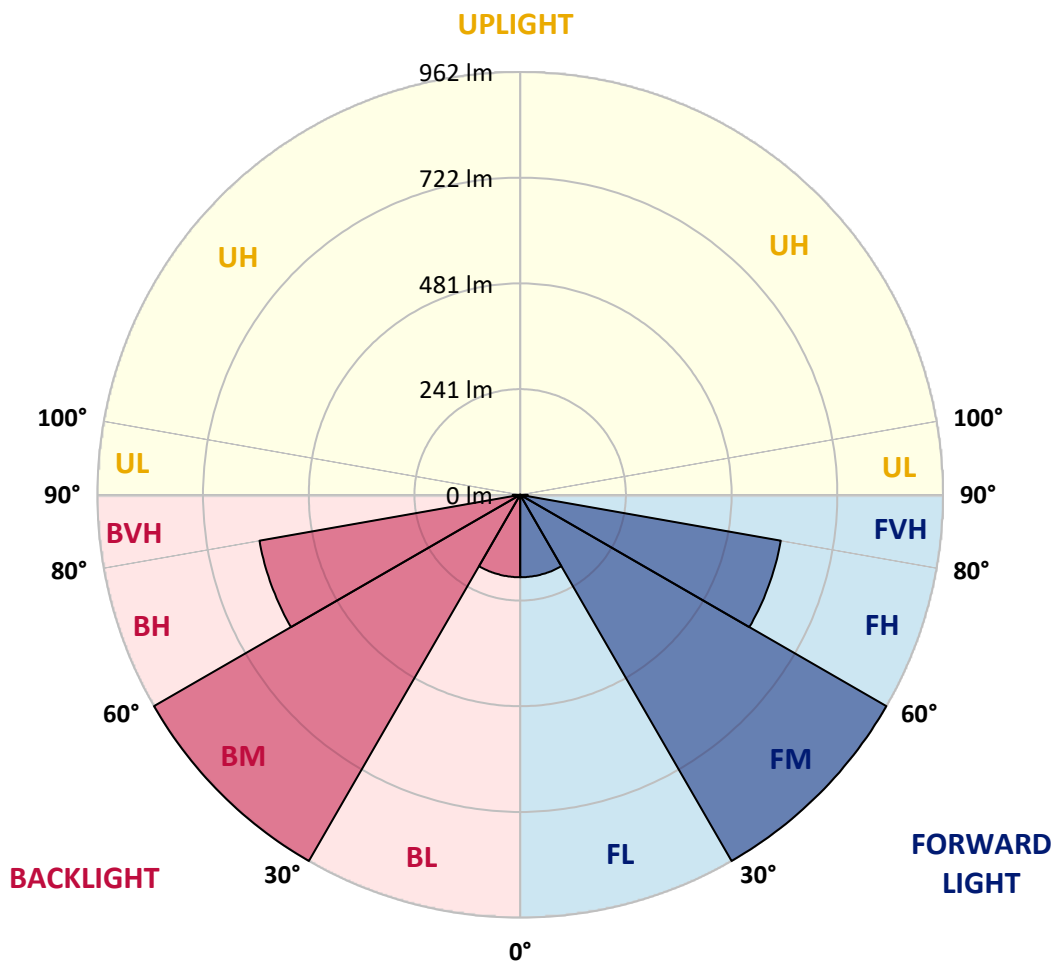
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	187.6	5.3			
FM	(30°-60°)	962.3	27.2			
FH	(60°-80°)	602.3	17.0			G0/660
FVH	(80°-90°)	17.0	0.5			G1/100
BL	(0°-30°)	187.6	5.3	B1/500		
BM	(30°-60°)	962.3	27.2	B1/1000		
BH	(60°-80°)	602.3	17.0	B2/1000		G0/660
BVH	(80°-90°)	17.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	394.0	394.0	394.0	394.0	394.0	394.0	394.0	394.0	394.0	394.0	394.0
2.5°	396.4	396.2	396.4	395.9	396.1	395.9	395.9	395.0	395.0	394.4	393.7
5°	392.0	392.5	392.5	392.5	393.1	393.1	394.0	394.3	395.0	395.6	396.1
7.5°	384.7	385.0	385.6	386.0	387.3	389.1	390.9	392.9	394.6	397.0	399.3
10°	378.5	378.9	380.1	381.2	383.5	385.8	389.0	392.0	395.2	398.8	402.7
12.5°	375.1	375.9	377.6	379.4	383.1	386.0	390.3	395.2	399.3	402.9	407.1
15°	375.6	375.9	378.2	380.7	386.0	390.0	396.1	401.8	406.9	410.9	415.7
17.5°	382.0	382.5	385.0	388.4	393.5	398.7	405.0	411.1	418.0	422.7	428.4
20°	394.6	395.3	397.9	401.8	407.3	412.6	419.2	425.4	432.7	438.2	443.9
22.5°	411.1	412.2	415.0	419.8	425.3	431.7	438.6	445.0	451.7	457.1	462.1
25°	433.1	434.4	437.5	442.1	447.6	454.5	461.6	468.2	475.2	479.3	483.4
27.5°	462.5	464.8	468.0	471.8	476.7	484.0	490.7	496.3	503.0	507.5	510.1
30°	502.2	505.3	508.0	511.9	515.5	523.4	528.7	533.1	538.2	540.8	541.5
32.5°	550.8	553.6	556.3	559.3	564.0	571.2	576.4	578.7	581.5	580.9	578.5
35°	605.5	607.8	609.3	614.4	622.3	627.0	630.8	631.7	632.1	627.5	622.9
37.5°	663.2	665.9	667.3	675.2	682.7	688.0	689.8	691.9	690.4	682.7	674.3
40°	725.6	728.3	732.4	739.2	748.1	753.1	755.5	755.2	754.0	745.1	731.3
42.5°	786.6	790.2	793.7	805.6	812.8	821.5	822.6	822.4	820.0	809.6	793.7
45°	838.6	842.8	849.6	863.0	874.7	885.2	889.3	890.8	888.5	877.4	859.1
47.5°	881.3	884.3	892.9	909.2	924.1	939.4	947.9	953.9	953.7	945.6	926.4
50°	910.6	913.9	924.6	942.9	961.6	979.6	996.2	1009.8	1016.3	1010.5	992.4
52.5°	919.1	923.3	937.2	959.0	980.9	1005.2	1029.9	1053.9	1068.4	1071.9	1057.8
55°	883.7	888.2	908.6	938.8	975.0	1010.7	1048.3	1082.5	1112.2	1125.9	1120.5
57.5°	780.3	783.6	809.6	848.5	900.2	963.1	1026.5	1088.9	1139.9	1175.6	1181.8
60°	617.0	621.3	649.7	690.9	749.6	829.0	917.8	1020.1	1120.1	1202.0	1242.5
62.5°	416.5	419.2	446.5	484.2	548.5	625.1	723.9	853.7	996.2	1142.4	1256.8
65°	218.6	218.6	237.1	263.5	314.6	383.1	484.5	617.6	787.2	969.6	1161.0
67.5°	126.8	126.7	130.9	136.8	153.0	180.6	236.7	334.3	494.8	707.3	925.1
70°	104.7	104.1	103.3	103.3	105.8	110.0	120.6	147.4	215.8	364.7	569.2
71°	100.0	99.5	97.7	97.1	98.3	100.4	105.1	117.5	153.3	248.8	425.1
72.5°	94.4	93.3	90.6	89.7	89.8	90.6	92.0	96.8	107.7	141.5	242.4
75°	86.1	83.4	80.0	78.5	77.9	77.7	77.7	79.0	81.3	85.3	99.4
77.5°	76.3	72.6	69.0	67.5	66.3	65.7	65.1	64.3	63.9	65.7	70.7
80°	64.5	60.5	57.6	56.8	56.1	54.7	53.0	51.3	50.1	51.1	54.1
82.5°	49.9	46.0	46.4	46.5	45.5	43.3	41.4	39.4	37.5	37.0	38.5
85°	39.6	37.6	36.4	39.3	36.8	34.1	31.7	28.3	23.7	19.6	21.3
87.5°	17.1	17.2	24.9	37.5	32.8	26.4	22.0	17.7	11.3	8.4	8.7
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°	394.0	394.0	394.0	394.0	394.0	394.0	394.0	394.0
2.5°	393.5	393.5	392.9	392.5	392.5	392.5	392.0	392.2
5°	396.2	396.7	397.1	397.0	397.6	398.2	397.9	397.8
7.5°	400.6	402.0	403.2	404.0	404.9	405.8	406.0	405.3
10°	405.0	407.8	409.7	411.6	412.6	413.5	414.2	413.9
12.5°	410.6	414.4	418.0	421.6	424.0	425.3	426.6	426.2
15°	419.8	424.0	428.4	433.1	436.8	438.8	440.8	440.3
17.5°	432.2	435.9	439.5	444.1	448.9	450.9	453.3	452.9
20°	447.6	450.6	452.6	455.3	459.7	462.1	464.1	463.4
22.5°	465.4	466.3	466.5	467.4	470.9	473.9	476.6	477.2
25°	484.7	484.0	482.7	482.0	484.5	487.6	491.0	491.8
27.5°	508.7	506.5	503.1	500.4	501.2	505.0	508.9	509.8
30°	538.9	533.8	526.5	521.6	520.6	524.8	528.8	530.2
32.5°	573.2	566.3	556.5	548.8	545.5	549.3	552.7	554.8
35°	614.0	606.4	594.7	584.6	579.3	581.8	588.0	590.2
37.5°	662.3	651.9	638.9	626.2	617.2	617.8	624.4	627.0
40°	715.8	700.7	684.0	668.2	655.5	654.5	660.6	662.5
42.5°	771.5	752.2	732.6	711.9	695.9	693.1	700.9	701.0
45°	831.3	806.5	782.2	758.3	741.7	736.6	744.2	745.1
47.5°	895.2	864.1	835.5	809.6	791.5	783.6	790.9	792.2
50°	961.6	929.4	896.2	867.5	846.4	836.6	845.2	846.2
52.5°	1027.5	997.1	964.2	931.1	905.5	894.4	904.7	907.7
55°	1093.7	1064.5	1033.5	1000.4	968.4	958.5	969.6	973.0
57.5°	1162.8	1134.6	1106.4	1073.1	1041.9	1027.0	1039.0	1043.7
60°	1238.9	1214.0	1187.4	1154.0	1123.2	1105.8	1116.0	1121.4
62.5°	1313.5	1308.4	1284.2	1249.5	1210.5	1193.2	1201.8	1205.5
65°	1319.7	1402.4	1401.4	1366.7	1312.2	1283.1	1285.7	1287.5
67.5°	1151.8	1341.7	1463.0	1473.8	1413.2	1367.6	1362.3	1363.4
70°	815.5	1076.1	1333.5	1502.4	1526.4	1491.1	1479.6	1481.3
71°	653.4	923.3	1206.7	1434.0	1524.7	1514.5	1508.1	1512.7
72.5°	417.1	680.2	956.1	1228.0	1402.1	1451.9	1459.2	1462.1
75°	151.5	292.7	495.3	709.8	899.6	1030.1	1102.0	1107.8
77.5°	81.3	104.9	162.1	242.2	304.3	337.5	341.4	343.1
80°	59.8	69.3	79.4	90.6	97.7	99.2	96.7	91.5
82.5°	42.3	47.9	51.9	55.9	58.7	56.4	46.8	35.8
85°	24.7	27.0	29.3	31.4	31.7	30.0	19.8	16.2
87.5°	9.7	10.6	10.4	11.8	11.3	10.4	7.7	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)