

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: P199122

Luminaire Tested: **XNV-AF-01-LED-U-5MQ-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199122  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24129)  
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-5MQ-8030-600  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3463 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - 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

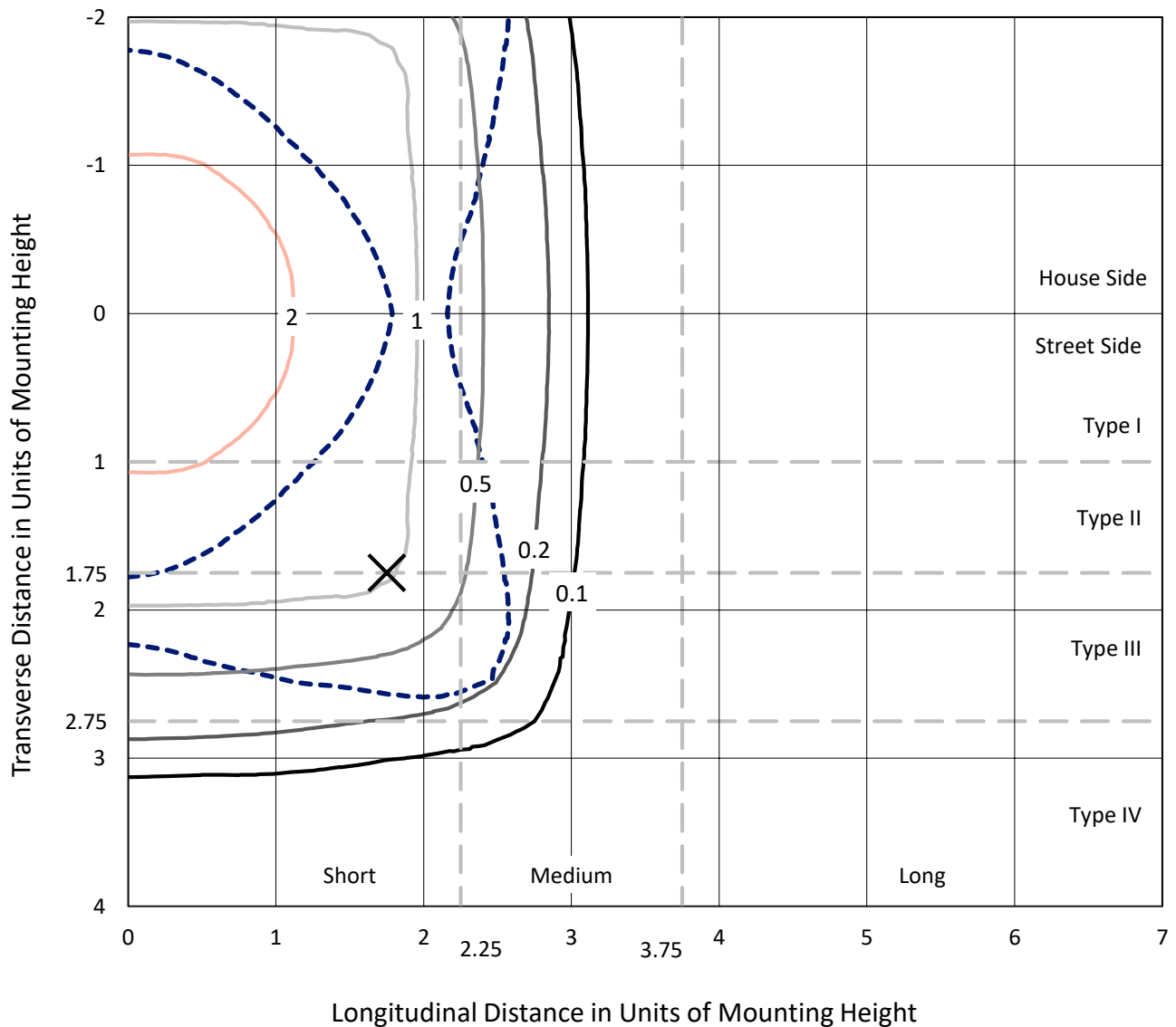


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

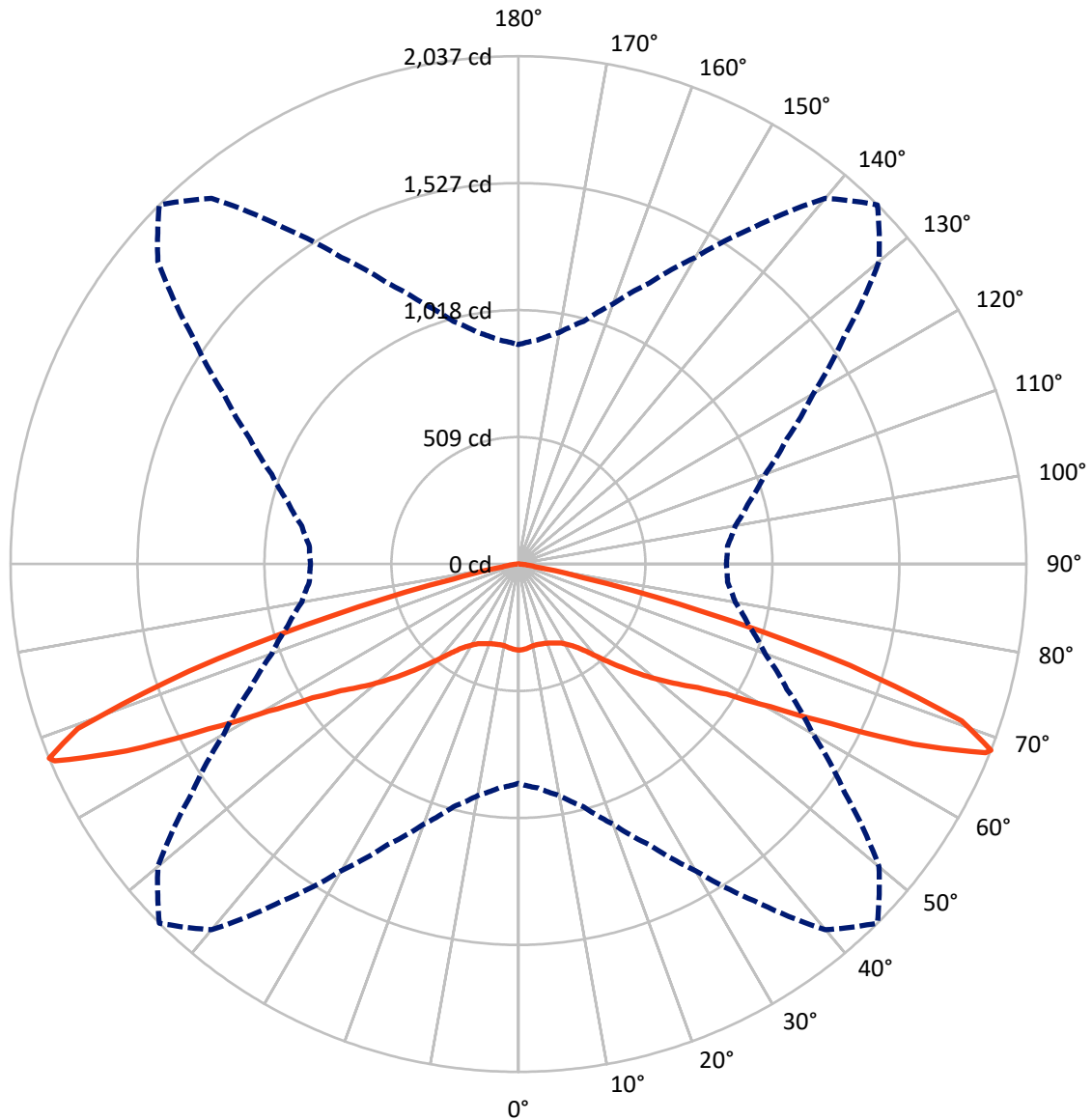


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1731.5	0.0	1731.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1731.5	0.0	1731.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3463.0	0.0	3463.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.3	0.9
10°-20°	93.7	2.7
20°-30°	159.4	4.6
30°-40°	260.8	7.5
40°-50°	466.1	13.5
50°-60°	787.2	22.7
60°-70°	1220.7	35.2
70°-80°	419.7	12.1
80°-90°	23.1	0.7
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°	3463.0	100.0
0°-180°	3463.0	100.0



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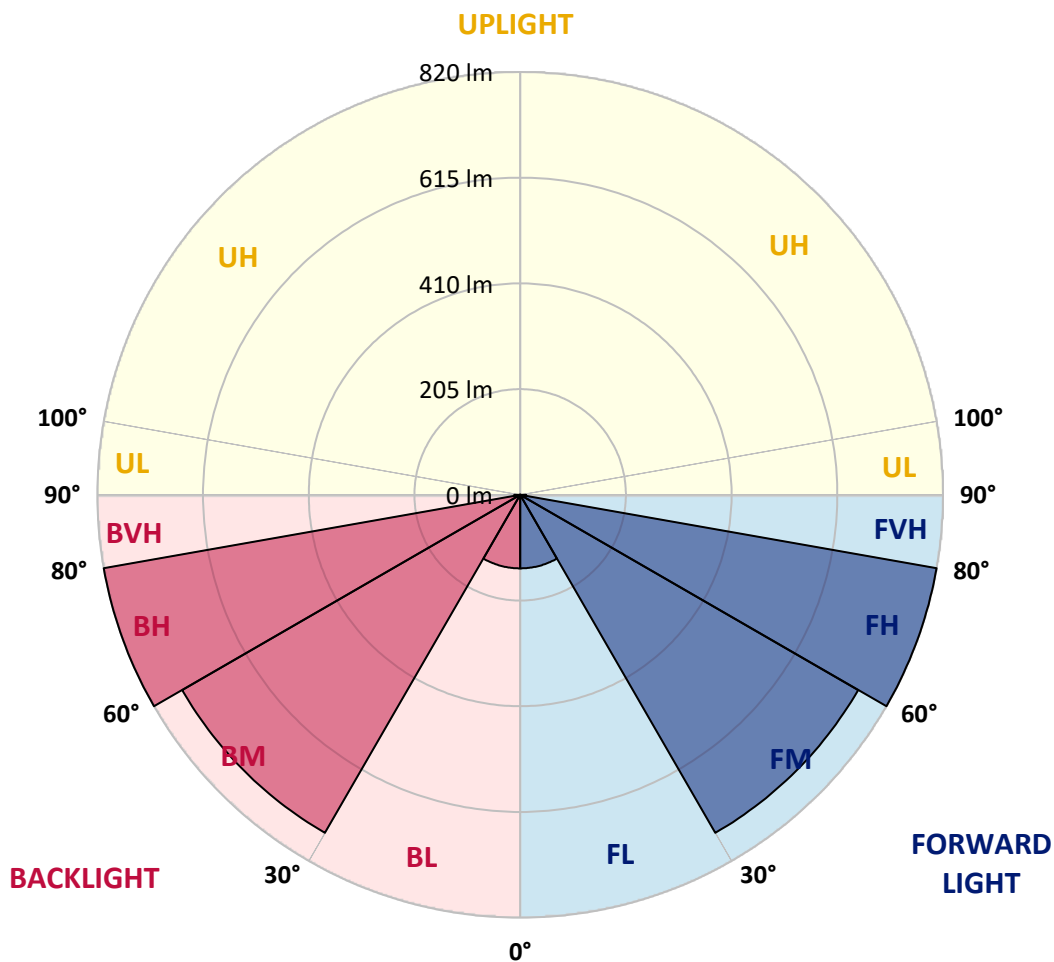
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	142.7	4.1			
FM	(30°-60°)	757.1	21.9			
FH	(60°-80°)	820.2	23.7			G1/1800
FVH	(80°-90°)	11.5	0.3			G1/100
BL	(0°-30°)	142.7	4.1	B1/500		
BM	(30°-60°)	757.1	21.9	B1/1000		
BH	(60°-80°)	820.2	23.7	B2/1000		G1/1800
BVH	(80°-90°)	11.5	0.3			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	345.4	345.4	345.4	345.4	345.4	345.4	345.4	345.4	345.4	345.4	345.4
2.5°	346.9	346.9	347.4	347.1	346.5	345.9	345.2	344.6	344.2	343.7	343.3
5°	343.3	343.3	344.0	343.5	343.1	342.5	342.1	341.4	341.0	340.6	340.8
7.5°	338.7	339.1	339.5	339.3	338.4	338.2	337.6	337.4	337.0	336.3	336.5
10°	334.6	334.8	335.3	335.1	334.8	334.2	334.0	333.8	333.6	332.7	332.5
12.5°	330.6	331.0	331.4	331.7	331.4	331.7	331.9	332.1	331.9	331.4	331.4
15°	327.4	327.8	328.5	329.1	329.3	330.6	331.4	332.3	332.9	333.1	332.5
17.5°	325.7	326.4	327.2	328.5	329.5	331.0	332.5	333.8	334.8	335.1	334.4
20°	325.5	326.1	327.4	328.9	330.8	332.7	335.1	337.0	338.0	338.7	338.0
22.5°	327.0	327.8	329.5	331.4	333.8	336.3	339.3	341.4	343.5	344.4	343.7
25°	331.2	332.1	334.0	336.3	338.9	342.1	345.0	347.8	349.9	351.0	350.1
27.5°	340.1	340.4	342.5	345.0	348.0	350.7	354.6	355.8	357.5	358.6	357.5
30°	352.7	353.1	355.0	359.0	361.8	365.4	367.5	368.8	370.7	371.7	370.5
32.5°	371.7	372.2	373.9	377.7	380.2	383.0	385.5	386.4	388.3	389.6	388.1
35°	398.7	399.5	401.0	403.5	405.7	407.8	409.7	409.1	410.3	412.0	410.5
37.5°	435.6	435.4	435.8	437.7	439.8	441.1	444.1	442.6	443.8	445.3	444.5
40°	478.6	478.6	478.4	481.8	482.6	483.9	487.1	485.2	486.9	488.6	487.1
42.5°	527.6	528.5	529.5	532.3	534.6	535.0	536.5	535.7	537.8	539.3	537.8
45°	584.0	585.3	586.6	592.9	594.0	594.8	595.9	593.1	595.5	596.7	596.3
47.5°	642.5	644.9	647.6	654.2	658.4	660.4	661.2	658.0	658.2	660.1	660.4
50°	708.7	711.2	714.0	721.4	725.5	728.8	729.9	726.3	726.7	728.2	728.6
52.5°	769.8	772.7	778.7	788.6	794.4	800.3	800.7	796.3	798.2	799.3	798.4
55°	827.2	831.1	838.9	852.3	862.7	874.3	879.6	874.7	874.7	873.9	873.5
57.5°	894.3	898.5	906.6	922.0	936.5	953.2	967.6	972.5	981.4	984.4	979.7
60°	995.2	999.6	1007.9	1028.3	1046.5	1070.9	1094.6	1113.9	1145.3	1162.3	1147.0
62.5°	1087.4	1094.2	1113.7	1149.4	1188.8	1234.0	1286.4	1323.7	1380.7	1409.1	1370.8
65°	1066.4	1080.2	1118.4	1174.4	1255.8	1353.8	1460.5	1562.9	1680.8	1741.2	1663.2
67.5°	931.6	943.2	984.4	1049.5	1151.1	1286.1	1452.0	1664.0	1907.3	2020.5	1882.5
68°	880.0	901.9	942.8	1007.5	1109.9	1242.7	1419.7	1648.8	1914.3	2036.6	1887.5
70°	674.8	682.6	721.8	780.0	890.4	1020.6	1199.4	1460.5	1760.5	1886.5	1733.2
72.5°	320.6	325.3	350.7	408.0	478.2	584.2	742.0	988.2	1258.6	1389.6	1236.7
75°	117.5	118.5	124.5	138.1	164.3	204.2	279.9	433.0	641.1	764.5	643.6
77.5°	63.4	63.6	66.0	69.3	74.0	79.3	90.8	121.7	196.4	267.2	207.4
80°	39.9	39.7	42.0	44.7	47.9	50.5	51.5	55.1	62.1	72.7	66.8
82.5°	20.4	22.3	27.6	30.5	35.2	36.1	35.0	34.8	36.9	39.9	41.1
85°	11.2	10.0	14.6	19.5	21.2	21.8	22.1	20.8	20.4	19.9	21.0
87.5°	5.7	5.3	6.4	9.8	10.4	8.5	8.7	7.4	5.1	5.1	5.3
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°	345.4	345.4	345.4	345.4	345.4	345.4	345.4	345.4
2.5°	342.9	343.1	342.7	342.7	342.7	342.9	342.7	342.5
5°	340.1	340.6	340.6	340.8	341.0	341.0	341.0	341.0
7.5°	336.1	336.3	336.8	336.8	336.8	336.8	336.8	336.8
10°	332.3	331.9	331.7	331.2	331.2	330.6	330.8	331.0
12.5°	330.4	329.5	329.1	328.5	328.1	327.4	327.4	327.6
15°	331.2	330.0	328.7	328.3	327.8	327.4	327.0	327.2
17.5°	332.9	331.4	330.0	329.1	328.3	327.6	327.4	327.6
20°	336.5	334.4	332.1	330.6	328.9	328.5	327.8	328.5
22.5°	341.4	338.9	335.9	333.1	331.2	330.4	329.5	330.2
25°	347.4	344.6	341.6	338.4	336.3	335.7	334.6	334.6
27.5°	355.6	353.3	350.7	347.8	345.7	345.0	343.3	343.3
30°	368.8	366.4	364.1	361.6	359.4	358.8	356.7	356.7
32.5°	386.2	383.6	382.1	380.0	378.3	377.3	374.7	374.5
35°	409.5	407.2	406.9	405.5	403.8	404.0	401.4	401.0
37.5°	443.0	441.1	441.7	440.4	439.0	440.2	438.8	438.8
40°	485.8	485.2	485.8	485.0	485.2	485.4	484.1	484.6
42.5°	537.6	535.9	539.7	539.3	538.6	540.3	537.4	535.2
45°	597.2	596.5	600.3	601.0	599.7	600.8	595.5	595.3
47.5°	661.8	661.8	665.2	664.8	663.5	663.7	657.4	653.4
50°	729.3	728.8	732.2	731.4	729.7	729.5	722.9	718.9
52.5°	799.5	799.5	804.3	802.0	798.0	796.1	788.0	782.7
55°	877.1	876.0	877.5	869.9	862.0	856.3	846.3	842.3
57.5°	975.3	963.0	952.4	942.6	931.6	924.8	913.1	908.9
60°	1114.6	1081.7	1067.5	1048.0	1029.8	1020.6	1005.2	996.9
62.5°	1307.6	1253.1	1214.5	1171.4	1129.9	1100.6	1077.0	1066.7
65°	1530.6	1411.9	1313.7	1221.5	1143.2	1081.1	1046.5	1035.7
67.5°	1615.5	1397.5	1228.0	1095.7	1000.7	926.7	885.3	876.7
68°	1597.4	1364.4	1188.4	1052.9	957.4	882.8	841.7	833.8
70°	1409.1	1151.1	965.3	830.4	741.4	670.3	641.3	628.8
72.5°	960.6	739.2	567.0	453.6	387.0	342.1	315.3	306.2
75°	442.1	298.8	199.5	149.1	126.6	115.8	107.5	105.4
77.5°	128.9	93.7	80.6	74.6	70.2	66.4	63.6	63.4
80°	61.3	57.5	55.8	52.0	47.9	44.3	41.8	42.2
82.5°	41.1	40.1	40.1	36.3	29.9	25.7	21.2	19.1
85°	21.8	22.7	24.0	22.7	19.7	14.6	9.5	10.4
87.5°	7.4	8.5	8.9	8.7	7.8	5.9	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)