

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: P198484

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198484
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-7030-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4607 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full 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

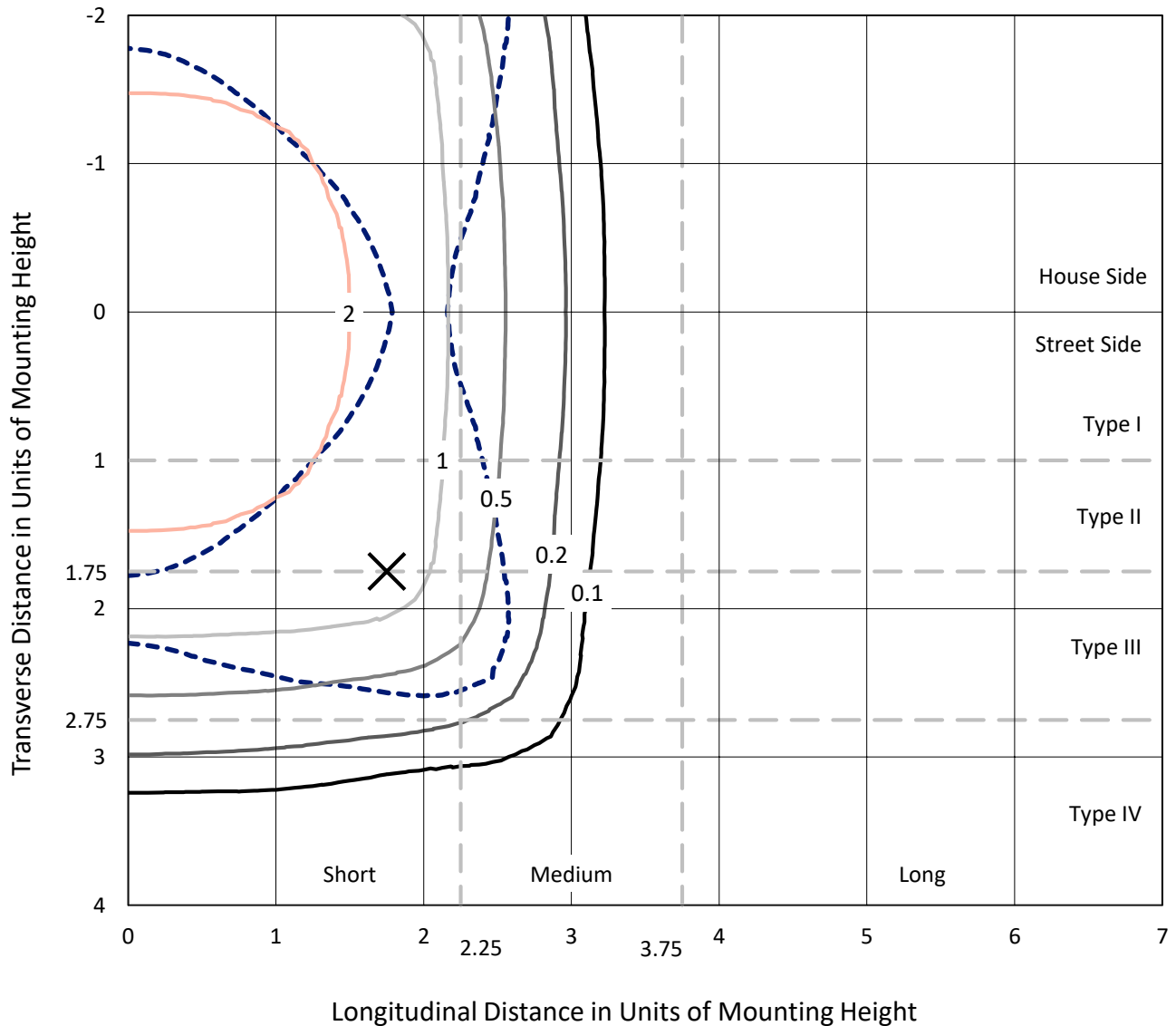


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

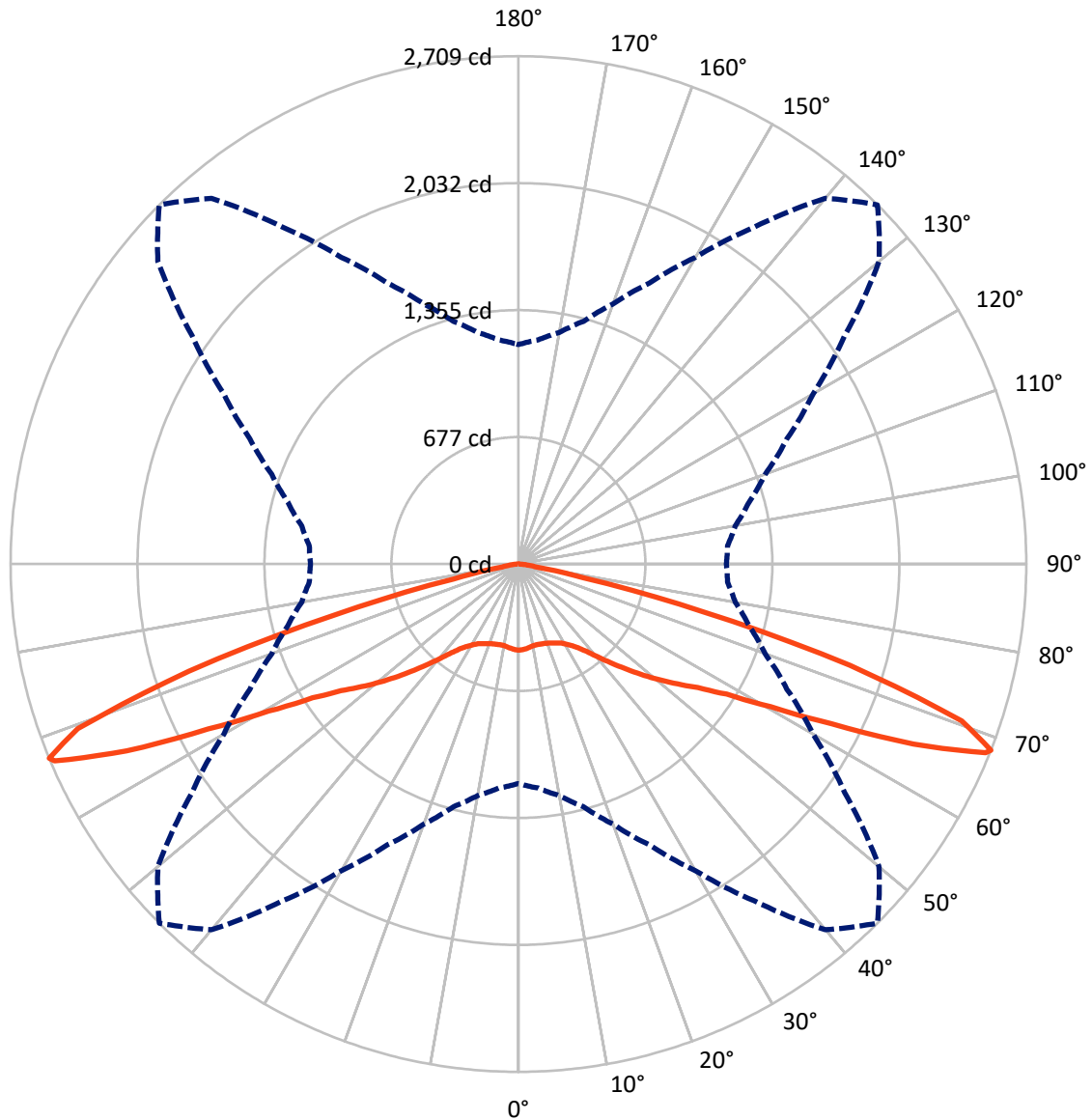


Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - Full Cutoff

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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
House Side	Lumens	2303.5	0.0	2303.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2303.5	0.0	2303.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4607.0	0.0	4607.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	0.9
10°-20°	124.7	2.7
20°-30°	212.0	4.6
30°-40°	347.0	7.5
40°-50°	620.1	13.5
50°-60°	1047.3	22.7
60°-70°	1623.9	35.2
70°-80°	558.3	12.1
80°-90°	30.7	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°	4607.0	100.0
0°-180°	4607.0	100.0



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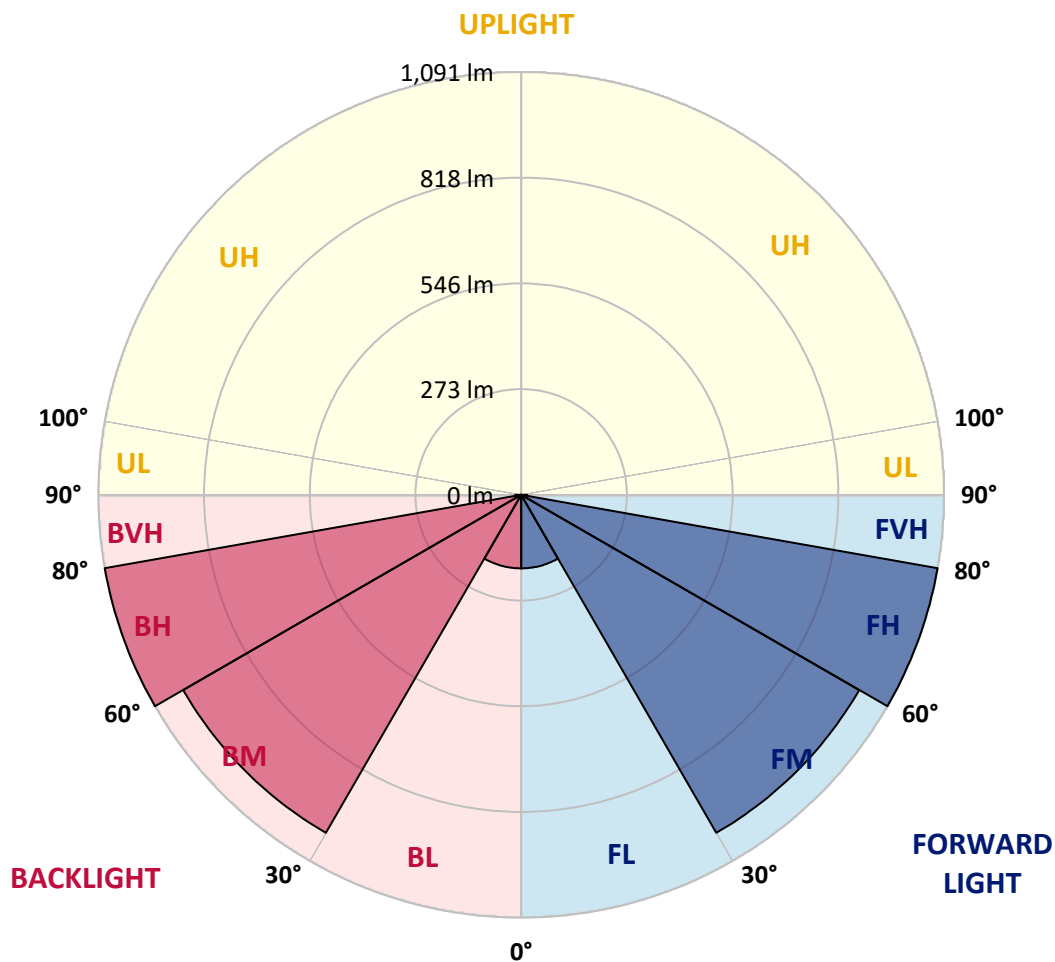
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	189.9	4.1			
FM	(30°-60°)	1007.2	21.9			
FH	(60°-80°)	1091.1	23.7			G1/1800
FVH	(80°-90°)	15.3	0.3			G1/100
BL	(0°-30°)	189.9	4.1	B1/500		
BM	(30°-60°)	1007.2	21.9	B2/2500		
BH	(60°-80°)	1091.1	23.7	B3/2500		G1/1800
BVH	(80°-90°)	15.3	0.3			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°	459.6	459.6	459.6	459.6	459.6	459.6	459.6	459.6	459.6	459.6	459.6
2.5°	461.5	461.5	462.1	461.8	461.0	460.1	459.3	458.4	457.9	457.3	456.7
5°	456.7	456.7	457.6	457.0	456.5	455.6	455.0	454.2	453.6	453.1	453.4
7.5°	450.5	451.1	451.7	451.4	450.3	450.0	449.1	448.8	448.3	447.4	447.7
10°	445.2	445.5	446.0	445.7	445.5	444.6	444.3	444.0	443.8	442.6	442.4
12.5°	439.8	440.4	440.9	441.2	440.9	441.2	441.5	441.8	441.5	440.9	440.9
15°	435.6	436.1	437.0	437.8	438.1	439.8	440.9	442.1	442.9	443.2	442.4
17.5°	433.3	434.2	435.3	437.0	438.4	440.4	442.4	444.0	445.5	445.7	444.9
20°	433.0	433.9	435.6	437.6	440.1	442.6	445.7	448.3	449.7	450.5	449.7
22.5°	435.0	436.1	438.4	440.9	444.0	447.4	451.4	454.2	457.0	458.2	457.3
25°	440.7	441.8	444.3	447.4	450.8	455.0	459.0	462.7	465.5	466.9	465.8
27.5°	452.5	452.8	455.6	459.0	462.9	466.6	471.7	473.4	475.6	477.1	475.6
30°	469.2	469.7	472.3	477.6	481.3	486.1	488.9	490.6	493.1	494.5	492.9
32.5°	494.5	495.1	497.4	502.4	505.8	509.5	512.9	514.0	516.5	518.2	516.3
35°	530.4	531.5	533.5	536.9	539.7	542.5	545.0	544.2	545.9	548.1	546.2
37.5°	579.5	579.2	579.7	582.3	585.1	586.8	590.7	588.8	590.5	592.4	591.3
40°	636.7	636.7	636.4	641.0	642.1	643.8	648.0	645.5	647.7	650.0	648.0
42.5°	701.9	703.0	704.4	708.1	711.2	711.8	713.7	712.6	715.4	717.4	715.4
45°	776.9	778.6	780.3	788.8	790.2	791.3	792.7	789.1	792.2	793.9	793.3
47.5°	854.8	857.9	861.6	870.3	876.0	878.5	879.6	875.4	875.7	878.2	878.5
50°	942.8	946.2	949.9	959.7	965.1	969.6	971.0	966.2	966.8	968.8	969.3
52.5°	1024.1	1028.0	1035.9	1049.2	1056.8	1064.7	1065.3	1059.3	1061.9	1063.3	1062.2
55°	1100.5	1105.6	1116.0	1133.8	1147.6	1163.2	1170.2	1163.7	1163.7	1162.6	1162.0
57.5°	1189.7	1195.3	1206.0	1226.6	1245.8	1268.1	1287.3	1293.8	1305.6	1309.6	1303.4
60°	1324.0	1329.9	1340.9	1368.0	1392.2	1424.7	1456.3	1481.9	1523.7	1546.3	1525.9
62.5°	1446.7	1455.7	1481.7	1529.1	1581.5	1641.6	1711.3	1760.9	1836.8	1874.6	1823.6
65°	1418.7	1437.1	1487.9	1562.3	1670.7	1801.0	1942.9	2079.2	2236.0	2316.4	2212.6
67.5°	1239.3	1254.8	1309.6	1396.2	1531.3	1711.0	1931.6	2213.7	2537.3	2688.0	2504.3
68°	1170.8	1199.8	1254.3	1340.3	1476.6	1653.2	1888.7	2193.4	2546.6	2709.4	2511.1
70°	897.7	908.1	960.3	1037.6	1184.6	1357.8	1595.6	1942.9	2342.1	2509.7	2305.7
72.5°	426.6	432.8	466.6	542.8	636.2	777.2	987.1	1314.6	1674.3	1848.7	1645.3
75°	156.3	157.7	165.6	183.7	218.6	271.7	372.4	576.1	852.8	1017.0	856.2
77.5°	84.4	84.6	87.7	92.3	98.5	105.5	120.7	161.9	261.2	355.5	275.9
80°	53.0	52.8	55.9	59.5	63.8	67.1	68.6	73.3	82.7	96.8	88.9
82.5°	27.1	29.6	36.7	40.6	46.8	48.0	46.5	46.3	49.1	53.0	54.7
85°	15.0	13.3	19.5	26.0	28.2	29.1	29.3	27.6	27.1	26.5	27.9
87.5°	7.6	7.1	8.5	13.0	13.8	11.3	11.6	9.9	6.8	6.8	7.1
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°	459.6	459.6	459.6	459.6	459.6	459.6	459.6	459.6
2.5°	456.2	456.5	455.9	455.9	455.9	456.2	455.9	455.6
5°	452.5	453.1	453.1	453.4	453.6	453.6	453.6	453.6
7.5°	447.1	447.4	448.0	448.0	448.0	448.0	448.0	448.0
10°	442.1	441.5	441.2	440.7	440.7	439.8	440.1	440.4
12.5°	439.5	438.4	437.8	437.0	436.4	435.6	435.6	435.9
15°	440.7	439.0	437.3	436.7	436.1	435.6	435.0	435.3
17.5°	442.9	440.9	439.0	437.8	436.7	435.9	435.6	435.9
20°	447.7	444.9	441.8	439.8	437.6	437.0	436.1	437.0
22.5°	454.2	450.8	446.9	443.2	440.7	439.5	438.4	439.2
25°	462.1	458.4	454.5	450.3	447.4	446.6	445.2	445.2
27.5°	473.1	470.0	466.6	462.7	459.8	459.0	456.7	456.7
30°	490.6	487.5	484.4	481.0	478.2	477.3	474.5	474.5
32.5°	513.7	510.3	508.4	505.5	503.3	501.9	498.5	498.2
35°	544.8	541.7	541.4	539.4	537.1	537.4	534.0	533.5
37.5°	589.3	586.8	587.6	585.9	584.0	585.7	583.7	583.7
40°	646.3	645.5	646.3	645.2	645.5	645.8	644.1	644.6
42.5°	715.2	712.9	718.0	717.4	716.6	718.8	714.9	712.1
45°	794.4	793.6	798.7	799.5	797.8	799.2	792.2	791.9
47.5°	880.5	880.5	885.0	884.4	882.7	883.0	874.6	869.2
50°	970.2	969.6	974.1	973.0	970.8	970.5	961.7	956.4
52.5°	1063.6	1063.6	1070.1	1067.0	1061.6	1059.1	1048.3	1041.3
55°	1166.8	1165.4	1167.4	1157.2	1146.8	1139.2	1125.9	1120.6
57.5°	1297.4	1281.1	1267.0	1254.0	1239.3	1230.3	1214.8	1209.1
60°	1482.8	1439.1	1420.2	1394.2	1369.9	1357.8	1337.2	1326.2
62.5°	1739.5	1667.0	1615.7	1558.4	1503.1	1464.2	1432.9	1419.0
65°	2036.3	1878.3	1747.7	1625.0	1520.9	1438.2	1392.2	1377.8
67.5°	2149.1	1859.1	1633.7	1457.7	1331.3	1232.8	1177.8	1166.3
68°	2125.2	1815.1	1581.0	1400.7	1273.7	1174.4	1119.7	1109.3
70°	1874.6	1531.3	1284.2	1104.8	986.3	891.8	853.1	836.5
72.5°	1278.0	983.4	754.4	603.4	514.9	455.0	419.5	407.4
75°	588.2	397.5	265.5	198.3	168.4	154.0	143.0	140.2
77.5°	171.5	124.7	107.2	99.3	93.4	88.3	84.6	84.4
80°	81.5	76.5	74.2	69.1	63.8	59.0	55.6	56.1
82.5°	54.7	53.3	53.3	48.2	39.8	34.1	28.2	25.4
85°	29.1	30.2	31.9	30.2	26.2	19.5	12.7	13.8
87.5°	9.9	11.3	11.8	11.6	10.4	7.9	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)