

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: P198644

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198644
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-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 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: 5323.4 lumens
Efficiency: N/A
Efficacy: 121.0 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

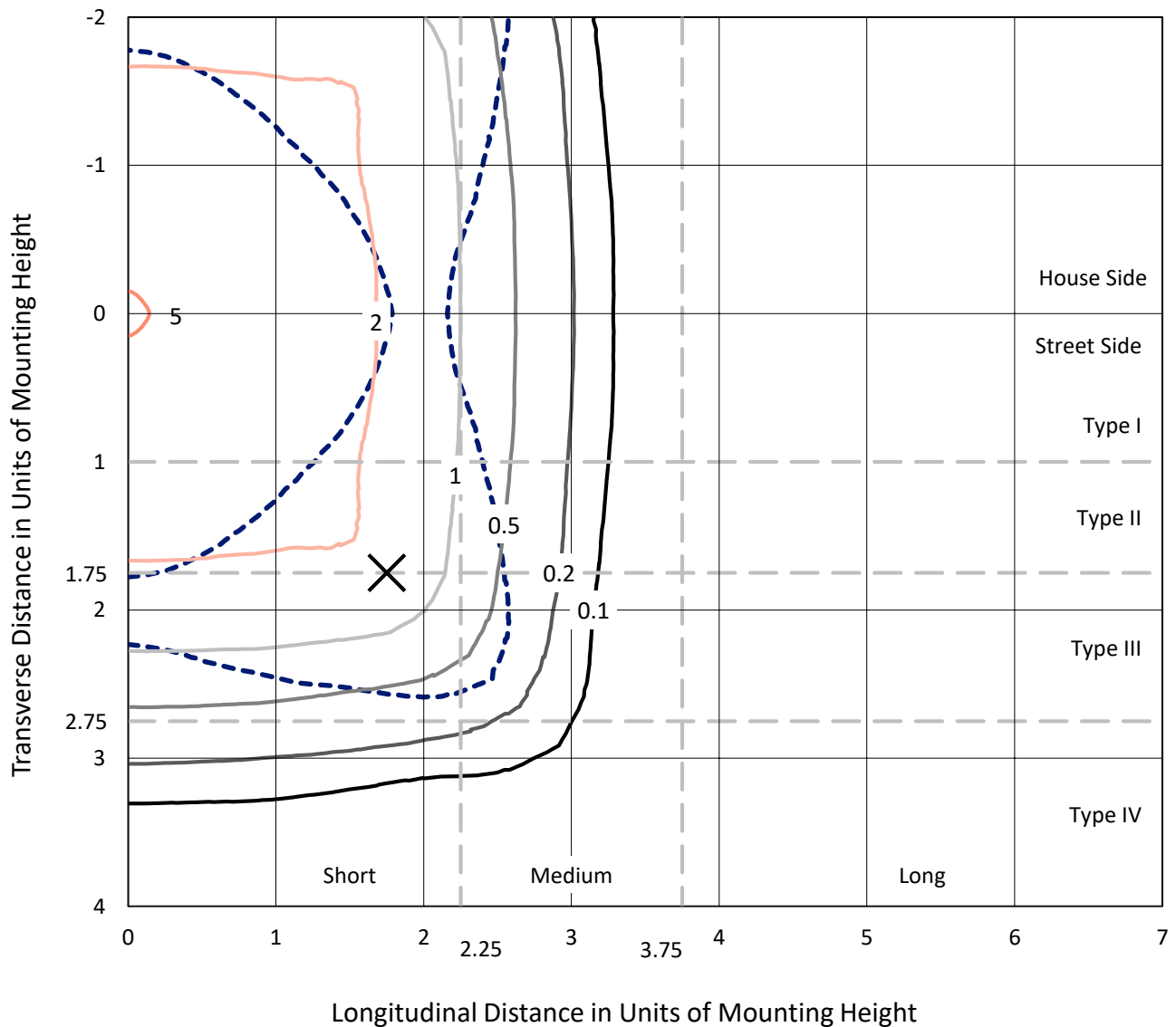


REPORT NUMBER: P198644

CATALOG NUMBER: XNV-AF-01-LED-U-5MQ-800

Iso-Footcandle Lines of Horizontal Illumination

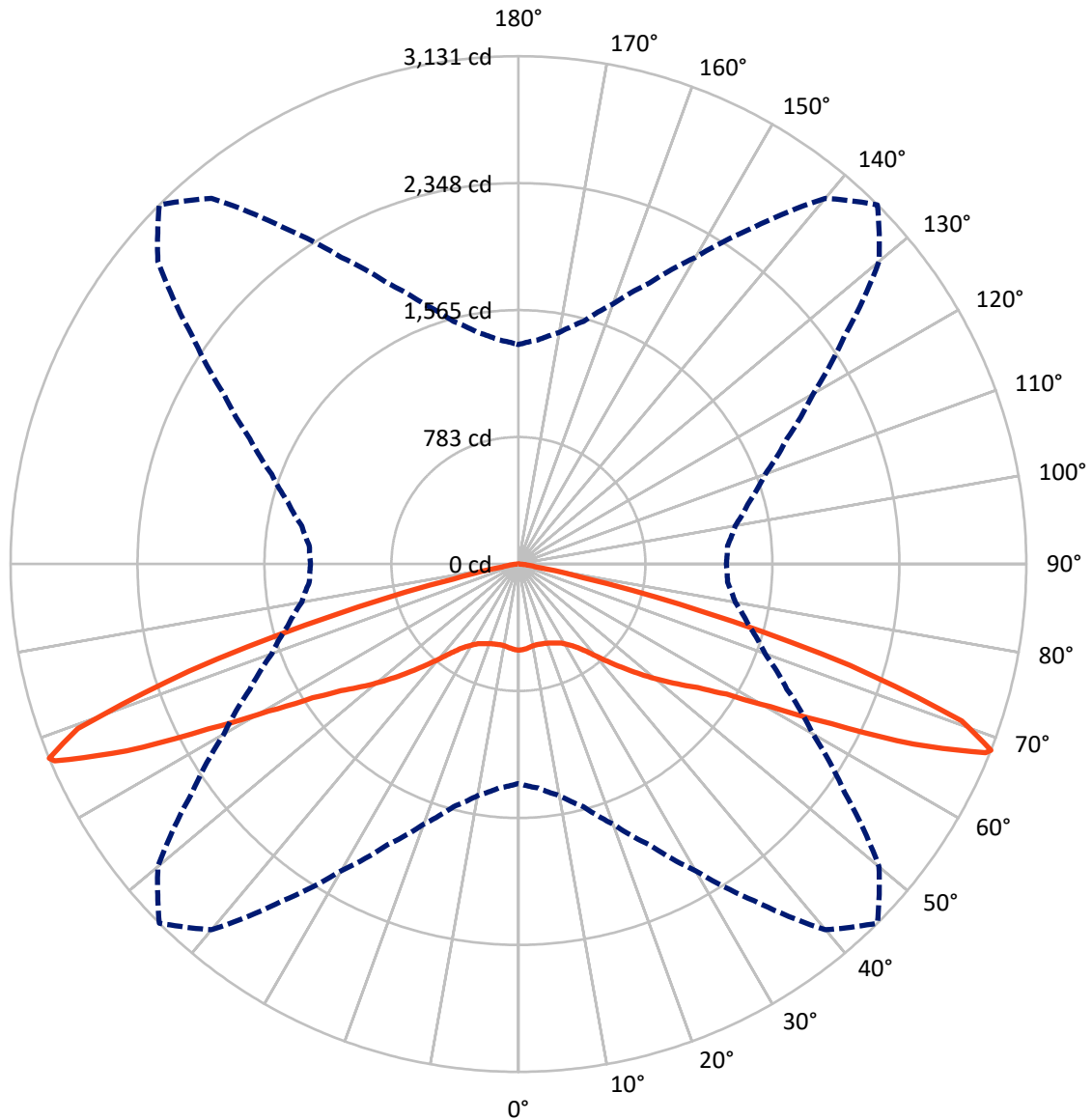
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P198644
CATALOG NUMBER: XNV-AF-01-LED-U-5MQ-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P198644

CATALOG NUMBER: XNV-AF-01-LED-U-5MQ-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2661.7	0.0	2661.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2661.7	0.0	2661.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	5323.4	0.0	5323.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	0.9
10°-20°	144.1	2.7
20°-30°	245.0	4.6
30°-40°	400.9	7.5
40°-50°	716.5	13.5
50°-60°	1210.1	22.7
60°-70°	1876.4	35.2
70°-80°	645.2	12.1
80°-90°	35.5	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°	5323.4	100.0
0°-180°	5323.4	100.0



REPORT NUMBER: P198644

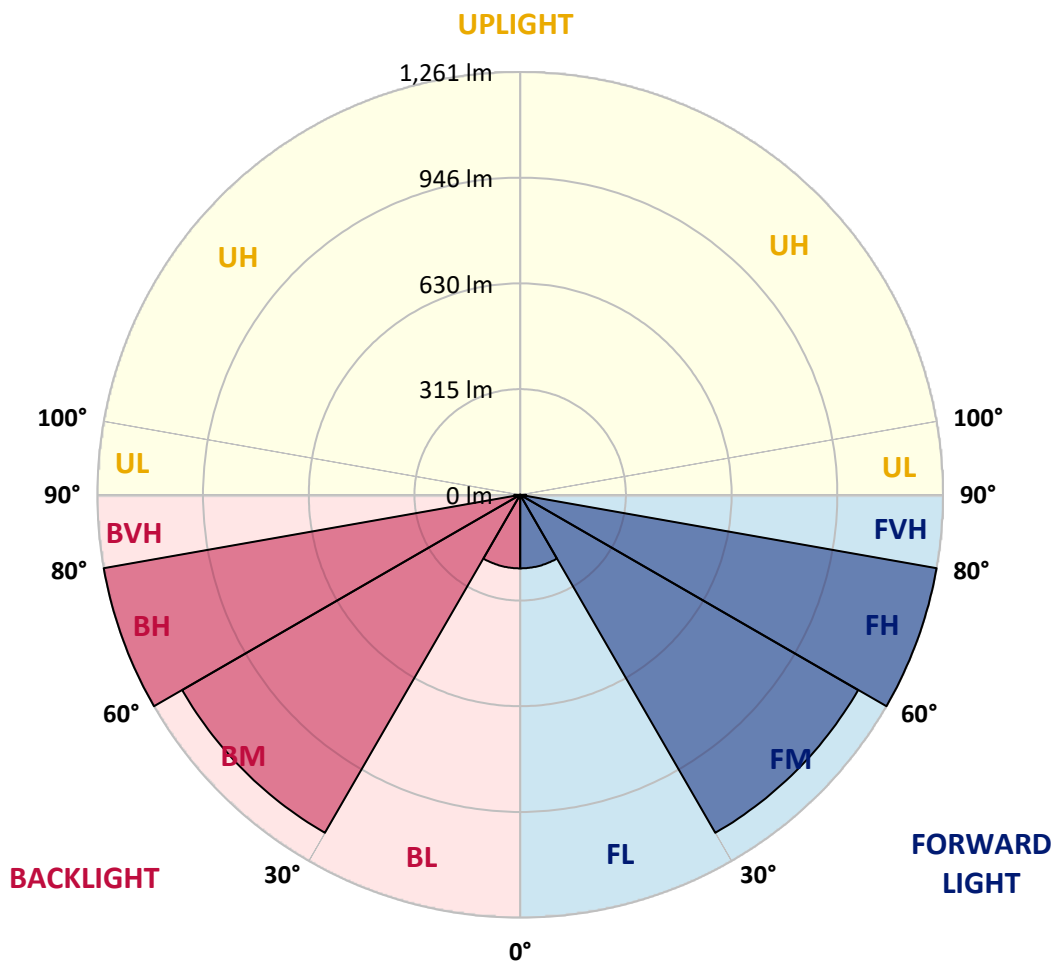
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	219.4	4.1			
FM	(30°-60°)	1163.8	21.9			
FH	(60°-80°)	1260.8	23.7			G1/1800
FVH	(80°-90°)	17.7	0.3			G1/100
BL	(0°-30°)	219.4	4.1	B1/500		
BM	(30°-60°)	1163.8	21.9	B2/2500		
BH	(60°-80°)	1260.8	23.7	B3/2500		G1/1800
BVH	(80°-90°)	17.7	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





REPORT NUMBER: P198644

CATALOG NUMBER: XNV-AF-01-LED-U-5MQ-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0
2.5°	533.3	533.3	534.0	533.7	532.7	531.7	530.7	529.7	529.1	528.5	527.7
5°	527.7	527.7	528.8	528.0	527.4	526.5	525.8	524.9	524.2	523.5	523.9
7.5°	520.6	521.3	521.9	521.6	520.3	520.0	518.9	518.6	518.0	517.0	517.3
10°	514.4	514.7	515.4	515.1	514.7	513.7	513.4	513.1	512.8	511.5	511.2
12.5°	508.2	508.8	509.5	509.8	509.5	509.8	510.1	510.5	510.1	509.5	509.5
15°	503.3	504.0	504.9	506.0	506.3	508.2	509.5	510.9	511.8	512.1	511.2
17.5°	500.7	501.7	503.0	504.9	506.6	508.8	511.2	513.1	514.7	515.1	514.0
20°	500.4	501.3	503.3	505.6	508.5	511.5	515.1	518.0	519.7	520.6	519.7
22.5°	502.7	504.0	506.6	509.5	513.1	517.0	521.6	524.9	528.0	529.4	528.5
25°	509.2	510.5	513.4	517.0	520.9	525.8	530.4	534.6	537.9	539.5	538.2
27.5°	522.8	523.2	526.5	530.4	534.9	539.2	545.0	547.0	549.6	551.3	549.6
30°	542.1	542.8	545.7	551.9	556.2	561.7	565.0	566.9	569.8	571.4	569.5
32.5°	571.4	572.1	574.7	580.6	584.5	588.7	592.6	593.9	596.9	598.8	596.6
35°	612.8	614.2	616.4	620.3	623.6	626.9	629.8	628.8	630.8	633.4	631.1
37.5°	669.5	669.2	669.9	672.8	676.1	678.0	682.6	680.4	682.3	684.6	683.2
40°	735.7	735.7	735.4	740.6	741.9	743.9	748.8	745.8	748.5	751.1	748.8
42.5°	811.1	812.3	814.0	818.3	821.8	822.5	824.7	823.5	826.6	829.0	826.6
45°	897.7	899.7	901.6	911.4	913.1	914.4	916.1	911.8	915.3	917.3	916.7
47.5°	987.8	991.3	995.5	1005.7	1012.2	1015.1	1016.4	1011.5	1011.9	1014.8	1015.1
50°	1089.4	1093.3	1097.6	1109.0	1115.2	1120.4	1122.1	1116.4	1117.2	1119.4	1120.1
52.5°	1183.3	1187.9	1197.1	1212.3	1221.1	1230.3	1230.9	1224.1	1227.0	1228.7	1227.3
55°	1271.6	1277.6	1289.6	1310.1	1326.2	1344.1	1352.1	1344.7	1344.7	1343.3	1342.7
57.5°	1374.6	1381.2	1393.6	1417.4	1439.5	1465.3	1487.5	1494.9	1508.6	1513.3	1506.1
60°	1529.8	1536.7	1549.4	1580.7	1608.7	1646.2	1682.8	1712.4	1760.6	1786.7	1763.3
62.5°	1671.6	1682.0	1712.1	1766.8	1827.5	1896.9	1977.5	2034.8	2122.5	2166.2	2107.2
65°	1639.4	1660.6	1719.3	1805.3	1930.5	2081.1	2245.1	2402.5	2583.8	2676.7	2556.7
67.5°	1432.0	1449.9	1513.3	1613.3	1769.4	1977.1	2232.0	2558.0	2931.9	3106.0	2893.7
68°	1352.9	1386.4	1449.3	1548.7	1706.2	1910.3	2182.5	2534.6	2942.6	3130.7	2901.6
70°	1037.3	1049.3	1109.7	1199.0	1368.8	1569.0	1843.8	2245.1	2706.3	2900.0	2664.3
72.5°	492.9	500.0	539.2	627.2	735.1	898.0	1140.6	1519.1	1934.7	2136.1	1901.2
75°	180.6	182.2	191.4	212.3	252.7	313.9	430.3	665.6	985.4	1175.2	989.4
77.5°	97.5	97.8	101.4	106.6	113.8	121.9	139.5	187.1	301.9	410.7	318.9
80°	61.3	61.0	64.5	68.7	73.7	77.5	79.2	84.8	95.5	111.8	102.7
82.5°	31.3	34.3	42.4	47.0	54.1	55.4	53.8	53.5	56.7	61.3	63.2
85°	17.3	15.3	22.5	30.0	32.6	33.6	33.9	31.9	31.3	30.7	32.2
87.5°	8.8	8.2	9.8	15.0	16.0	13.0	13.4	11.5	7.8	7.8	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P198644

CATALOG NUMBER: XNV-AF-01-LED-U-5MQ-800

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0
2.5°	527.1	527.4	526.8	526.8	526.8	527.1	526.8	526.5
5°	522.8	523.5	523.5	523.9	524.2	524.2	524.2	524.2
7.5°	516.7	517.0	517.6	517.6	517.6	517.6	517.6	517.6
10°	510.9	510.1	509.8	509.2	509.2	508.2	508.5	508.8
12.5°	507.9	506.6	506.0	504.9	504.3	503.3	503.3	503.6
15°	509.2	507.3	505.2	504.6	504.0	503.3	502.7	503.0
17.5°	511.8	509.5	507.3	506.0	504.6	503.6	503.3	503.6
20°	517.3	514.0	510.5	508.2	505.6	504.9	504.0	504.9
22.5°	524.9	520.9	516.4	512.1	509.2	507.9	506.6	507.6
25°	534.0	529.7	525.2	520.3	517.0	516.1	514.4	514.4
27.5°	546.7	543.1	539.2	534.6	531.3	530.4	527.7	527.7
30°	566.9	563.3	559.8	555.8	552.5	551.6	548.3	548.3
32.5°	593.6	589.7	587.4	584.2	581.5	579.9	576.0	575.7
35°	629.5	625.8	625.5	623.3	620.6	621.0	617.0	616.4
37.5°	681.0	678.0	679.0	677.1	674.7	676.8	674.4	674.4
40°	746.9	745.8	746.9	745.5	745.8	746.1	744.2	744.9
42.5°	826.3	823.8	829.6	829.0	828.0	830.6	826.0	822.8
45°	918.0	917.0	922.9	923.8	921.9	923.5	915.3	915.0
47.5°	1017.4	1017.4	1022.6	1021.9	1020.0	1020.3	1010.6	1004.3
50°	1121.1	1120.4	1125.7	1124.3	1121.7	1121.4	1111.2	1105.1
52.5°	1229.0	1229.0	1236.4	1232.9	1226.7	1223.8	1211.4	1203.2
55°	1348.2	1346.6	1349.0	1337.2	1325.1	1316.3	1301.0	1294.9
57.5°	1499.2	1480.3	1463.9	1449.0	1432.0	1421.6	1403.7	1397.1
60°	1713.3	1662.8	1641.0	1611.0	1583.0	1569.0	1545.2	1532.5
62.5°	2010.0	1926.2	1866.9	1800.7	1736.9	1691.9	1655.6	1639.7
65°	2353.0	2170.4	2019.5	1877.6	1757.4	1661.9	1608.7	1592.1
67.5°	2483.3	2148.2	1887.8	1684.4	1538.3	1424.6	1360.9	1347.6
68°	2455.6	2097.4	1826.8	1618.5	1471.8	1357.0	1293.8	1281.8
70°	2166.2	1769.4	1483.9	1276.5	1139.7	1030.4	985.8	966.6
72.5°	1476.7	1136.4	871.7	697.2	594.9	525.8	484.8	470.8
75°	679.6	459.3	306.8	229.1	194.6	178.0	165.3	162.0
77.5°	198.2	144.1	123.9	114.8	107.9	102.0	97.8	97.5
80°	94.2	88.4	85.7	79.9	73.7	68.1	64.2	64.9
82.5°	63.2	61.6	61.6	55.8	45.9	39.5	32.6	29.4
85°	33.6	34.9	36.8	34.9	30.3	22.5	14.6	16.0
87.5°	11.5	13.0	13.7	13.4	12.1	9.1	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)