

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: P268164

Luminaire Tested: **GAN-AF-01-LED-U-5MQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-5MQ-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6240.3 lumens
Efficiency: N/A
Efficacy: 93.1 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): 67
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

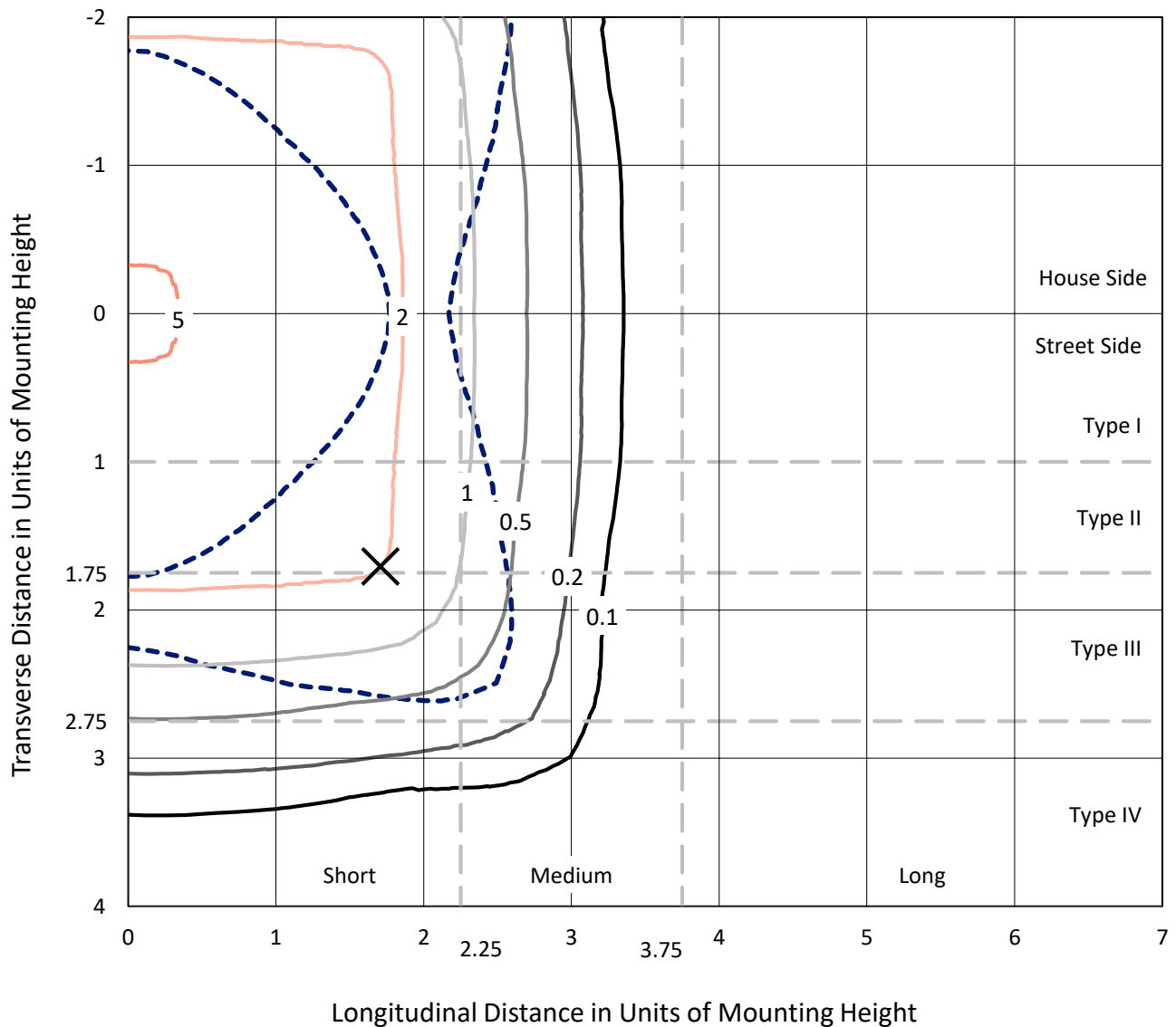


REPORT NUMBER: P268164

CATALOG NUMBER: GAN-AF-01-LED-U-5MQ-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

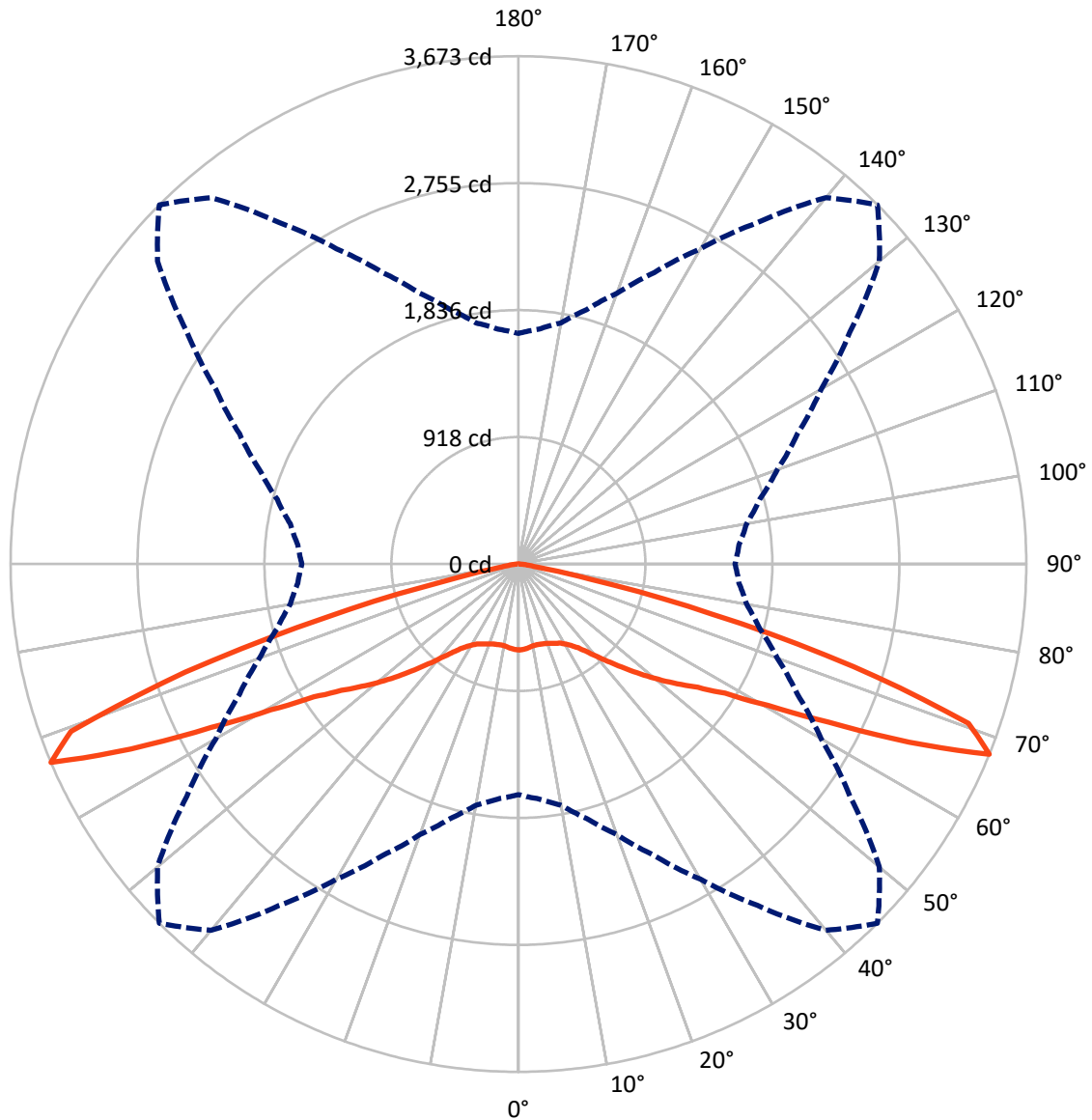
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P268164
CATALOG NUMBER: GAN-AF-01-LED-U-5MQ-7027-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P268164

CATALOG NUMBER: GAN-AF-01-LED-U-5MQ-7027-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3120.1	0.0	3120.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3120.1	0.0	3120.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	6240.3	0.0	6240.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	0.9
10°-20°	168.9	2.7
20°-30°	287.1	4.6
30°-40°	469.4	7.5
40°-50°	837.9	13.4
50°-60°	1412.7	22.6
60°-70°	2192.3	35.1
70°-80°	770.3	12.3
80°-90°	43.5	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°	6240.3	100.0
0°-180°	6240.3	100.0



REPORT NUMBER: P268164

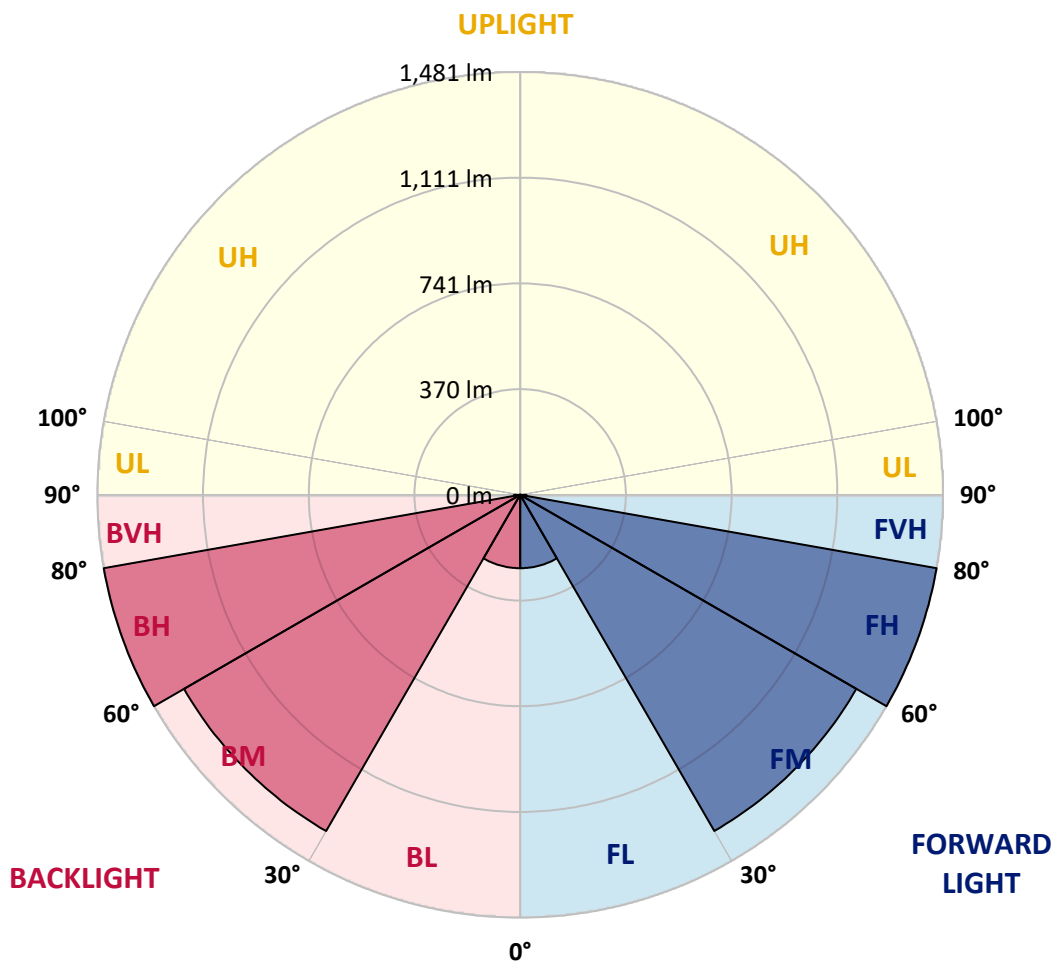
CATALOG NUMBER: GAN-AF-01-LED-U-5MQ-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	257.1	4.1			
FM	(30°-60°)	1360.0	21.8			
FH	(60°-80°)	1481.3	23.7			G1/1800
FVH	(80°-90°)	21.8	0.3			G1/100
BL	(0°-30°)	257.1	4.1	B1/500		
BM	(30°-60°)	1360.0	21.8	B2/2500		
BH	(60°-80°)	1481.3	23.7	B3/2500		G1/1800
BVH	(80°-90°)	21.8	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: P268164

CATALOG NUMBER: GAN-AF-01-LED-U-5MQ-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8
2.5°	619.7	620.1	620.1	620.1	619.9	619.9	619.3	619.9	619.7	618.8	619.0
5°	614.4	615.0	615.0	614.7	615.6	615.2	614.4	615.0	614.7	614.1	614.4
7.5°	607.0	607.9	607.9	607.6	608.4	608.2	607.6	607.9	607.9	607.0	607.0
10°	598.6	599.2	599.2	598.9	600.3	600.3	600.1	601.0	601.1	600.3	599.8
12.5°	590.8	591.8	591.8	592.9	594.3	594.9	596.4	597.5	598.6	598.4	597.3
15°	586.2	586.9	588.0	589.5	591.8	593.7	596.0	598.6	601.0	601.4	599.8
17.5°	583.4	584.3	586.1	588.0	591.2	594.6	598.0	601.4	604.6	605.7	603.8
20°	582.6	583.1	584.8	588.3	592.6	597.7	602.7	606.6	610.9	612.5	610.9
22.5°	584.3	585.4	587.4	591.4	597.3	603.8	609.5	615.0	620.4	623.1	621.0
25°	592.1	593.2	595.8	601.0	607.3	614.1	620.6	627.0	631.9	634.6	633.0
27.5°	606.4	607.9	610.9	616.1	623.1	630.5	637.6	642.7	646.8	647.7	646.1
30°	627.8	631.1	634.8	640.5	648.5	654.9	662.1	666.6	671.6	671.6	670.0
32.5°	661.5	664.7	668.7	674.1	680.3	687.4	693.6	697.7	702.8	703.1	699.6
35°	711.6	713.2	716.6	720.0	725.7	731.8	737.1	739.8	744.2	744.4	741.2
37.5°	778.0	778.3	780.5	781.7	786.8	793.5	798.7	800.4	804.4	803.9	800.7
40°	855.1	856.7	857.5	859.1	864.7	870.9	876.3	877.3	881.5	880.7	876.7
42.5°	944.4	944.9	949.9	952.5	957.7	960.7	967.7	968.6	973.8	971.3	966.8
45°	1044.5	1049.7	1054.3	1059.6	1064.9	1068.7	1074.2	1072.9	1076.3	1072.9	1070.4
47.5°	1149.9	1153.7	1163.9	1172.0	1180.9	1184.1	1191.8	1188.4	1191.8	1186.9	1186.0
50°	1265.8	1272.4	1281.3	1290.5	1299.9	1305.1	1315.2	1310.8	1315.5	1310.8	1308.3
52.5°	1380.1	1381.8	1401.3	1414.8	1427.9	1434.1	1440.1	1437.9	1438.2	1437.9	1435.4
55°	1488.5	1492.5	1512.0	1530.4	1553.3	1570.2	1580.7	1579.5	1577.0	1574.3	1570.0
57.5°	1610.8	1614.9	1637.3	1659.9	1685.9	1710.1	1731.0	1752.6	1760.9	1763.2	1753.8
60°	1776.0	1775.8	1805.7	1833.3	1870.5	1906.4	1952.2	1999.1	2052.6	2077.7	2044.7
62.5°	1944.2	1951.1	1994.1	2042.9	2119.9	2194.7	2279.4	2362.6	2447.6	2516.7	2443.3
65°	1924.2	1950.6	2014.5	2125.0	2267.1	2435.8	2618.3	2811.4	2986.0	3105.9	2971.4
67.5°	1667.7	1705.3	1770.3	1904.6	2082.4	2325.6	2632.2	3014.1	3458.0	3672.7	3406.6
70°	1208.7	1251.2	1319.5	1450.7	1626.6	1857.9	2190.7	2649.3	3237.0	3453.4	3160.4
72.5°	601.4	624.4	666.6	750.2	883.4	1071.0	1372.9	1813.7	2333.6	2532.2	2264.4
75°	204.4	215.0	222.2	249.4	291.6	365.3	515.4	792.9	1209.6	1450.0	1192.4
77.5°	117.9	118.2	123.1	128.0	135.1	143.2	163.3	214.3	370.8	526.5	383.7
80°	76.4	76.0	80.0	83.8	88.7	92.6	93.9	99.4	114.5	135.7	121.5
82.5°	39.5	44.5	53.4	58.3	67.5	69.2	66.8	64.9	68.6	71.1	72.9
85°	21.7	19.0	28.3	36.7	40.8	41.3	41.3	39.0	40.5	39.5	43.1
87.5°	10.1	9.3	11.1	18.1	19.3	16.3	17.2	15.2	10.9	10.6	12.0
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: P268164

CATALOG NUMBER: GAN-AF-01-LED-U-5MQ-7027-1200

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8
2.5°	619.0	619.3	619.3	620.1	620.4	621.0	621.5	621.8
5°	614.1	615.0	614.4	615.2	615.2	615.9	615.9	616.1
7.5°	607.0	607.9	607.9	607.9	607.6	608.4	608.4	608.4
10°	599.4	600.1	599.8	599.2	598.6	599.4	599.2	598.9
12.5°	597.3	595.8	594.6	594.0	592.9	593.2	592.3	592.3
15°	598.6	596.0	594.0	593.2	592.1	591.4	590.8	591.2
17.5°	602.4	599.2	596.7	595.1	593.7	592.9	591.8	592.1
20°	609.0	605.2	601.4	598.6	596.0	594.6	593.7	593.5
22.5°	618.8	613.3	607.9	603.5	600.1	598.0	597.3	596.7
25°	629.9	623.9	617.6	612.6	609.2	606.6	605.0	605.0
27.5°	643.9	639.1	633.3	627.6	624.4	621.8	620.6	620.1
30°	667.5	662.9	658.3	652.9	648.8	646.3	644.3	642.6
32.5°	697.7	693.9	690.2	686.1	682.4	678.9	675.9	674.4
35°	740.2	737.1	734.6	730.1	728.6	726.5	724.9	723.5
37.5°	798.7	797.4	797.4	792.7	791.4	790.6	788.9	789.3
40°	875.6	876.7	875.3	873.5	872.7	870.4	870.4	872.4
42.5°	966.5	967.4	970.6	967.7	970.8	968.0	966.2	967.7
45°	1072.1	1075.4	1081.6	1078.8	1080.8	1075.9	1069.8	1070.2
47.5°	1190.7	1193.5	1196.2	1194.0	1194.3	1186.3	1178.2	1176.3
50°	1313.7	1314.8	1316.3	1313.5	1314.0	1305.1	1296.0	1296.3
52.5°	1435.4	1440.9	1446.6	1438.8	1437.2	1427.0	1414.2	1409.0
55°	1574.5	1582.4	1575.7	1562.3	1548.8	1535.4	1518.3	1515.5
57.5°	1746.2	1733.0	1712.3	1686.7	1668.2	1649.2	1632.0	1624.9
60°	1985.0	1935.4	1897.9	1860.1	1836.3	1813.0	1790.4	1787.0
62.5°	2322.5	2236.7	2162.3	2084.0	2020.0	1970.1	1930.2	1919.0
65°	2745.5	2542.6	2366.7	2202.6	2060.0	1952.2	1884.6	1854.7
67.5°	2927.3	2526.8	2225.2	1992.1	1805.7	1675.3	1602.1	1565.7
70°	2572.4	2095.4	1767.4	1534.1	1364.3	1225.4	1159.1	1120.0
72.5°	1769.8	1332.9	1054.0	860.3	724.7	608.4	562.5	559.0
75°	794.6	526.2	362.7	279.6	235.4	204.6	195.1	187.9
77.5°	222.4	164.4	146.7	137.3	128.0	117.4	113.4	114.3
80°	108.2	102.1	98.2	92.2	83.8	74.9	70.8	72.7
82.5°	71.8	70.8	73.5	69.2	57.1	48.5	40.8	37.3
85°	43.6	44.1	45.0	45.4	38.4	26.9	18.3	20.8
87.5°	17.2	19.9	21.5	22.4	20.9	12.9	10.3	10.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)